DOCUMENT RECEIPT

NAMA / NOMOR KON	: **047600.PK/HK.02/BUI/2018 tanggal 31 Desember 2018** tentang Amandemen Terhadap Perjanjian Nomor 054000.PK/HK.02/BU INFRA/2017 antara PT Perusahaan gas Negara Tbk Business Unit Infrastructure dan PT PGAS Solution untuk melaksanakan Manajemen Aset Reliabilitas Infrastruktur Operasi dan Sistem Manajemen Gas (MARIO&SIMAG)
TO	**: PT PGAS SOLUTION**
ATTN	**: PROJECT MANAGER MARIO 2019**
CC	**:**
SUBJECT	**: LAPORAN KINERJA BULANAN MARIO 2019 GAS TRANSMISSION MANAGEMENT**

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NO	DOCUMENT NO.	REV	QTY	DOCUMENT TITLE	REMARK
1				Laporan Simag Transmisi Area lampung, Sumsel,	
				Jawa bagian barat Januari 2019	
2				PI O&M Area Lampung, AOJbb, AOSS	
3.				PI Pekerjaan Pengawasan Pihak Ke-3	
				(Lampung, Jbb, Sumsel)	
4.				PI Pekerjaan Penanganan gangguan (AOL, AOJbb, AOS)	
5.				PI PAPI (AOL, AOJb, AOSS)	
6.				PI HSSE	
7.				PI MAMI	
8.				PI DAK	
9.				Laporan Pengawasan Pihak Ke-3	
10.				Laporan HSSE	
11.				Laporan Penanganan gangguan	
12.				Laporan Inspeksi & pemeliharaan	
13.				Laporan Pengelolaan Inventory	
14.				Laporan RAM	
15.				Laporan MAMI Regional Transmisi	

Additional Remarks:

Sumitted By:

Yuskon F

Received By:

(Aryo Dwi Wirawan)
Admin MARIO GTM
Date: 06/02/2019

MARIO 2019 DOCUMENTs

NAMA / NOMOR KONTRAK	**: 047600.PK/HK.02/BUI/2018 tanggal 31 Desember 2018** tentang Amandemen Terhadap Perjanjian Nomor 054000.PK/HK.02/BU INFRA/2017 antara PT Perusahaan gas Negara Tbk Business Unit Infrastructure dan PT PGAS Solution untuk melaksanakan Manajemen Aset Reliabilitas Infrastruktur Operasi dan Sistem Manajemen Gas (MARIO&SIMAG)

NO	MONTH	PI	AV/R	I&P	PT	PPK	PG	INV	SDI	HSSE	PAPI	MAPKSMI	Remark
1	January	✓	✓	✓		✓	✓	✓		✓		✓	
2	February												
3	March												
4	April												
5	May												
6	June												
7	July												
8	August												
9	September												
10	October												
11	November												
12	December												

Received By:

(Ario Dwi Wirawan)
Admin MARIO GTM
Date: 06/02/2019

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No	Tanggal	No. Surat/Dokumen	Perihal	Nama Penerima	Tandatangan
	06.02.2019	Laporan	1. Laporan Sinag Transmisi		
			Area Lampung, Sumsel, Jawa		6/2 2019
			Bagian Barat Januari 2019		Farah
		Laporan Mario	1. PI O&M Area Lampung, A03b	✓	
			A05S		
			2. PI Pekerjaan Pengawasan	✓	
			Pihak ke-3		
			(Lampung, Jbb, Sumsel)		
			3. PI Pekerjaan Penanganan	✓	
			Gangguan (AOL, A03b, A05S)		
			4. PI PAPI (AOL, A03b, A05S	✓	6/2 2019
			5. PI HSSE	✓	Mario dw
			6. PI MAMI	✓	
			7. PI DAK	✓	
			8. Laporan Pengawasan pihak ke 3	✓	
			9. Laporan HSSE	✓	
			10. Laporan Penanganan Gangguan	✓	
			11. Laporan Inspeksi & Pemeliharaan	✓	
			12. Laporan Pengelolaan Inventory	✓	
			13. Laporan RAM	✓	
			14. Laporan MAMI Regional	✓	
			Transmisi		

LAPORAN BULANAN PERFORMANCE INDEX (PI)
PEKERJAAN MANAJEMEN AKTIFITAS PIHAK KETIGA, MENYEWA DAN SEWA, SERTA IZIN

No : 001/MARIO.04/PI/MAMI/TRANS/Januari/2019
Tanggal : 01 Februari 2019
Area/Wilayah/Departemen : Integritas Transmisi

No		Item Pekerjaan	Target		Performance		PI
			Jumlah	Nilai	Sesuai	Tidak Sesuai	(%)
(1)		(2)	(3)	(4)	(5)	(6)	(7)
14.9.1		Melakukan koordinasi dengan pihak ketiga					
	1	Tersedianya personnel pendukung kegiatan koordinasi dengan pihak ketiga	0	%	0		100.00%
	2	Tersedianya dokumentasi dan informasi pihak ketiga yang berinteraksi dengan PGN	0	%	0		100.00%
14.9.2		Melakukan koordinasi dengan pihak ketiga					
	1	Tersedianya personnel pendukung kegiatan menyewa dan sewa lahan	0	%	0		100.00%
	2	Tersedia data hasil survey sesuai dengan lokasi lahan sewa	0	%	0		100.00%
	3	Tersedianya kesepakatan menyewa dan sewa lahan antara PGN dan Pemilik Lahan	0	%	0		100.00%
	4	Tersedianya peta lokasi sesuai dengan lokasi lahan sewa	0	%	0		100.00%
14.9.3		Melakukan koordinasi dengan pihak ketiga					
	1	Tersedianya personnel pendukung kegiatan perizinan	0	%	0		100.00%
	2	Tersedianya kesepakatan izin antara PGN dengan pihak terkait	0	%	0		100.00%
							100.00%

Diperiksa,	Disetujui,	Diketahui,
QC PGASSOL	PGASSOL Project Manager	PGN Division Head Gas Transmission Management
(Novi Firmansyah Koswara)	(Dody Tusandy)	(A.A.P. Bagus Putra T)

LAPORAN BULANAN PERFORMANCE INDEX (PI)
PENYEDIAAN DOKUMEN ACUAN KERJA, PENGENDALIAN DOKUMEN,
DAN PEMBUATAN LAPORAN (1)

No : 001/MARIO.04/PI/DAK/TRANS/Januari/2019
Tanggal : 01 Februari 2019
Area/Wilayah/Departemen : Integritas Transmisi

No		Item Pekerjaan	Target		Performance		PI
			Jumlah	Satuan	Sesuai	Tidak Sesuai	(%)
(1)		(2)	(3)	(4)	(5)	(6)	(7)
14.12.A.1		Menyediakan DAK untuk kegiatan dalam lingkup MARIO					
	1	DAK tersedia dan lengkap	100	%	100		100.00%
	2	DAK terdokumentasi dan tersimpan secara sistematis	100	%	100		100.00%
14.12.A.2		Penyediaan Process Checklist (PC)					
	1	PC tersedia dan lengkap	100	%	100		100.00%
	2	PC terdokumentasi dan tersimpan secara sistematis	100	%	100		100.00%
							100.00%

Diperiksa,	Disetujui,	Diketahui,
QC PGASSOL	PGASSOL Project Manager	PGN Division Head Gas Transmission Management
(Novi Firmansyah Koswara)	**(Dody Tusandy)**	**(A.A.P. Bagus Putra T)**

LAPORAN BULANAN PERFORMANCE INDEX (PI)
PEKERJAAN O&M

No : 001/MARIO.04/PI/O&M/ATL/JANUARI/2019
Tanggal : 28 Januari 2019
Area/Wilayah/Departemen : Area Transmisi Lampung

No			Item Pekerjaan	Target		Performance		PI
				Jumlah	Satuan	Sesuai	Tidak Sesuai	(%)
(1)			(2)	(3)	(4)	(5)	(6)	(7)
14.1.A			Pemeliharaan dan Monitoring Jaringan Pipa Gas					
	1		Melakukan inspeksi dan pemeliharaan jalur jaringan pipa gas onshore dan landfall di Right of Way					
		1,1	Vegetasi terkendali, tidak ada tanaman berbatang keras	212,1	km	212,1		100,00%
		1,2	Situasi dan kondisi ROW terkendali dari gangguan eksternal dan natural act, terdokumentasi dan tercatat	217,1	km	217,1		100,00%
		1,3	Kebocoran terdeteksi, tertangani, tercatat, dan terdokumentasi					
		1,4	Crossing pipa gas dengan utilitas lain teridentifikasi dan terdokumentasi	100	%	100		100,00%
		1,5	Akses patroli terjangkau	217,1	km	217,1		100,00%
	2		Melakukan inspeksi dan pemeliharaan jalur jaringan pipa gas offshore					
		2,1	Jalur pipa terkendali dari aktivitas eksternal					
		2,2	Kebocoran terdeteksi, tertangani, tercatat, dan terdokumentasi					
	3		Melakukan inspeksi dan pemeliharaan jalur jaringan pipa gas onshore tanpa ROW					
		3,1	Lingkungan di atas jalur pipa termonitor dan terdokumentasi					
		3,2	Kebocoran terdeteksi, tertangani, tercatat, dan terdokumentasi					
		3,3	Akses patroli terjangkau					
		3,4	Jalur pipa terkendali dari aktivitas eksternal					
	4		Menyediakan tracking waypoint GPS (Vehicle Tracking System, Inova Track) di setiap kendaraan operasional Tim O&M					
		4,1	Terpasangnya servis VTS Fleet *Inova Track* pada database PGN (berlangganan servis)	100	%	100		100,00%
		4,2	Tersedianya database VTS *real-time*	100	%	100		100,00%
		4,3	Sistem *Inova Track* yang sinkron dengan DIGIO	100	%	100		100,00%
	5		Melakukan inspeksi dan pemeliharaan pada jaringan pipa gas *above ground* dan jembatan pipa gas					
		5,1	Kondisi jaringan pipa *above ground* dan jembatan pipa gas terpelihara					
		5,2	Korosi pada pipa *above ground* dan jembatan pipa gas tertangani, termonitor, dan terdokumentasi disertai *action plan* untuk mitigasinya					
		5,3	Kondisi pondasi jembatan pipa terkendali dari potensi bahaya					
	6		Melakukan pemeliharan pada rambu-rambu					
		6,1	Warning sign pada jalur pipa teridentifikasi, terpelihara, lengkap dan terupdate informasinya	832	unit	832		100,00%
		6,2	Marker post, termasuk didalamnya Aerial Marker pada jalur pipa teridentifikasi, terpelihara, lengkap dan terupdate informasinya	486	unit	486		100,00%
		6,3	Patok gas pada jalur pipa teridentifikasi, terpelihara dan lengkap	1556	unit	1556		100,00%
		6,4	Lingkungan sekitar rambu-rambu terkendali	100	%	100		100,00%
14.1.B			Inspeksi dan Pemeliharaan Sistem Proteksi Katodik					
	1		Melakukan inspeksi dan pemeliharaan sistem proteksi katodik					
		1,1	Nilai proteksi dalam range sesuai dengan standard	252	unit	252		100,00%
		1,2	Test box lengkap, teridentifikasi, terpelihara dan berfungsi	252	unit	252		100,00%
		1,3	TR terpelihara dan berfungsi	6	unit	6		100,00%
		1,4	Rumah TR terpelihara	5	unit	5		100,00%
14.1.C			Inspeksi dan Pemeliharaan Sistem *Valve*					
	1		Melakukan inspeksi dan pemeliharaan sistem *valve* pada jaringan pipa					
		1,1	Kondisi bak *valve* lengkap, teridentifikasi dan terpelihara					
		1,2	Kondisi pagar *sectional* dan *future connection valve* lengkap dan terpelihara	16	unit	16		100,00%
		1,3	*Sectional/line valve* lengkap dan terpelihara	7	unit	7		100,00%
		1,4	*Name Plate/Tagging* /Identitas Aset lengkap dan informatif	126	unit	126		100,00%
		1,5	*Valve* terpelihara dan berfungsi	126	unit	126		100,00%
14.1.D			Inspeksi dan Pemeliharaan Stasiun Gas MR/S Pelanggan					
	1		Melakukan inspeksi dan pemeliharaan pagar dan box MR/S					
		1,1	Kondisi pagar dan box MR/S lengkap					
		1,2	Korosi pada pagar dan box MR/S terkendali					
		1,3	Tidak terjadi dislokasi pada pondasi box MR/S					
		1,4	Vegetasi dan kebersihan lingkungan box MR/S terjaga					
	2		Melakukan inspeksi dan pemeliharaan pada sistem MR/S					
		2,1	Metering berfungsi, terdapat tanda tera sah, stiker kalibrasi yang sah dan tersegel					
		2,2	*Temperature gauge* berfungsi, terdapat stiker kalibrasi yang sah					
		2,3	*Pressure gauge* berfungsi, terdapat stiker kalibrasi yang sah					
		2,4	Sistem EVC berfungsi, tersegel dan terpelihara					
		2,5	Sistem regulator lengkap, berfungsi dan terpelihara					
		2,6	Sistem perpipaan terkendali dari korosi					
		2,7	Filter terpelihara dan berfungsi					
		2,8	Sistem *valve* terpelihara dan berfungsi					
		2,9	Sistem Telemeteri lengkap, berfungsi dan terpelihara					

No			Item Pekerjaan	Target		Performance		PI
				Jumlah	Satuan	Sesuai	Tidak Sesuai	(%)
(1)			(2)	(3)	(4)	(5)	(6)	(7)
		2.10	Name Plate/Tagging/Identitas Aset lengkap dan informatif					
		2.11	Kartu gantung MR/S tersedia dan informatif					
14.1.E	Inspeksi dan Pemeliharaan Stasiun Gas Non Pelanggan							
	1	Melakukan inspeksi dan pemeliharaan pagar dan box MR/S						
		1,1	Kondisi pagar dan box MR/S lengkap					
		1,2	Korosi pada pagar dan box MR/S terkendali					
		1,3	Tidak terjadi dislokasi pada pondasi box MR/S					
		1,4	Vegetasi dan kebersihan lingkungan box MR/S terjaga					
	2	Melakukan inspeksi dan pemeliharaan pada sistem MR/S						
		2,1	Metering berfungsi, terdapat tanda tera sah, stiker kalibrasi yang sah dan tersegel					
		2,2	*Temperature gauge* berfungsi, terdapat stiker kalibrasi yang sah					
		2,3	*Pressure gauge* berfungsi, terdapat stiker kalibrasi yang sah					
		2,4	Sistem EVC berfungsi, tersegel dan terpelihara					
		2,5	Sistem regulator lengkap, berfungsi dan terpelihara					
		2,6	Sistem perpipaan terkendali dari korosi					
		2,7	Filter terpelihara dan berfungsi					
		2,8	Sistem *valve* terpelihara dan berfungsi					
		2,9	Sistem Telemeteri lengkap, berfungsi dan terpelihara					
		2.10	Name Plate/Tagging/Identitas Aset lengkap dan informatif					
		2.11	Kartu gantung MR/S tersedia dan informatif					
14.1.F	Inspeksi dan Pemeliharaan Offtake Station dan Bulk Customer							
	1	Melakukan pemeliharaan di sistem meter						
		1,1	Metering berfungsi, memiliki tanda tera sah, stiker kalibrasi yang sah dan tersegel					
		1,2	*Flow computer* berfungsi dan memiliki tanda tera sah					
		1,3	*Transmitter* berfungsi, terpelihara dan tersegel					
		1,4	*Temperature gauge* berfungsi, memiliki stiker kalibrasi yang sah					
		1,5	*Pressure gauge* berfungsi, memiliki stiker kalibrasi yang sah					
	2	Melakukan pemeliharaan alat ukur di offtake station						
		2,1	*Temperature gauge* berfungsi, akurat, terpelihara dan ditera sesuai periode					
		2,2	*Pressure gauge* berfungsi, akurat, terpelihara dan ditera sesuai periode					
		2,3	Sistem alat ukur (temperature dan tekanan) lengkap, berfungsi, terpelihara dan terkalibrasi					
	3	Melakukan pemeliharaan sistem perpipaan dan valve di offtake station						
		3,1	Sistem perpipaan terkendali dari korosi					
		3,2	Sistem valve terpelihara dan berfungsi					
	4	Melakukan pemeliharaan sistem regulator di offtake station						
		4,1	Sistem regulator lengkap, berfungsi dan terpelihara					
	5	Melakukan pemeliharaan sistem pengaman di offtake						
		5,1	*Filter* terpelihara dan berfungsi					
		5,2	*Flow/Pressure Control Valve* (F/PCV) terpelihara dan berfungsi					
		5,3	*Gas Detector* terpelihara dan berfungsi					
		5,4	Sistem *Odorant* terpelihara dan berfungsi					
	6	Melakukan pemeliharaan gas chromatograph (GC)						
		6,1	GC terpelihara dan berfungsi					
	7	Melakukan operasi dan pemeliharaan terhadap sistem Gas Engine Generator (GEG) dan Diesel Engine Generator (DEG)						
		7,1	Gas turbine beroperasi dan berfungsi sesuai requirement					
		7,2	Hasil Condition Monitoring and Fault Diagnosis (CMFD) berupa Vibration (Level), Oil Analysis, Thermography, Power Analysis (Generator), dll berada pada Acceptance Level					
	8	Melakukan pemeliharaan terhadap sistem UPS						
		8,1	UPS beroperasi dan berfungsi sesuai requirement					
		8,2	Hasil Condition Monitoring and Fault Diagnosis (CMFD) berupa Thermography, Sampling Method, dll berada pada Acceptance Level.					
14.1.G	Inspeksi dan Pemeliharaan Stasiun Pembagi							
	1	Melakukan pemeliharaan di sistem meter						
		1,1	Metering berfungsi, memiliki tanda tera sah, stiker kalibrasi yang sah dan tersegel					
		1,2	*Flow computer* berfungsi dan memiliki tanda tera sah					
		1,3	*Transmitter* berfungsi, terpelihara dan tersegel					
		1,4	*Temperature gauge* berfungsi, memiliki stiker kalibrasi yang sah					
		1,5	*Pressure gauge* berfungsi, memiliki stiker kalibrasi yang sah					
	2	Melakukan pemeliharaan alat ukur						
		2,1	*Temperature gauge* berfungsi, akurat, terpelihara dan ditera sesuai periode					
		2,2	*Pressure gauge* berfungsi, akurat, terpelihara dan ditera sesuai periode					
	3	Melakukan pemeliharaan sistem perpipaan dan valve						
		3,1	Sistem perpipaan terkendali dari korosi					
		3,2	Sistem valve terpelihara dan berfungsi					
	4	Melakukan pemeliharaan sistem regulator						
		4,1	Sistem regulator lengkap, berfungsi dan terpelihara					
	5	Melakukan pemeliharaan sistem pengaman						
		5,1	*Filter* terpelihara dan berfungsi					

No	Item Pekerjaan	Target		Performance		PI
		Jumlah	Satuan	Sesuai	Tidak Sesuai	(%)
(1)	(2)	(3)	(4)	(5)	(6)	(7)
	5,2 *Flow/Pressure Control Valve* (F/PCV) terpelihara dan berfungsi					
	5,3 *Gas Detector* terpelihara dan berfungsi					
	6 Melakukan operasi dan pemeliharaan terhadap sistem Gas Engine Generator (GEG) dan Diesel Engine Generator (DEG)					
	6,1 Gas turbine beroperasi dan berfungsi sesuai requirement					
	6,2 Hasil Condition Monitoring and Fault Diagnosis (CMFD) berupa Vibration (Level), Oil Analysis, Thermography, Power Analysis (Generator), dll berada pada Acceptance Level					
	7 Melakukan pemeliharaan terhadap sistem UPS					
	7,1 UPS beroperasi dan berfungsi sesuai requirement					
	7,2 Hasil Condition Monitoring and Fault Diagnosis (CMFD) berupa Thermography, Sampling Method, dll berada pada Acceptance Level.					
14.1.H	Inspeksi dan Pemeliharaan Stasiun Gas Transmisi					
	1 Melakukan pemeliharaan sistem meter di stasiun gas					
	1,1 Metering berfungsi, memiliki tanda tera sah, stiker kalibrasi yang sah dan tersegel					
	1,2 *Flow computer* berfungsi dan memiliki tanda tera sah					
	1,3 *Transmitter* berfungsi, terpelihara dan tersegel					
	1,4 *Temperature gauge* berfungsi, memiliki stiker kalibrasi yang sah					
	1,5 *Pressure gauge* berfungsi, memiliki stiker kalibrasi yang sah					
	2 Melakukan pemeliharaan alat ukur di stasiun gas					
	2,1 *Temperature gauge* berfungsi, memiliki stiker kalibrasi yang sah	5	unit	5		100,00%
	2,2 *Pressure gauge* berfungsi, memiliki stiker kalibrasi yang sah	34	unit	34		100,00%
	2,3 Sistem alat ukur (temperature dan tekanan) lengkap, berfungsi, terpelihara dan terkalibrasi	1	ls	1		100,00%
	3 Melakukan pemeliharaan sistem perpipaan dan valve di stasiun gas					
	3,1 Sistem perpipaan terkendali dari korosi	100	%	100		100,00%
	3,2 Sistem valve terpelihara dan berfungsi	430	unit	430		100,00%
	3,3 Kondisi *corrosion coupon* termonitor dan tercatat	4	unit	4		100,00%
	3,4 Pressurize tank system terpelihara dan berfungsi	5	unit	5		100,00%
	3,5 Sistem Odorant terpelihara dan berfungsi					
	4 Melakukan pemeliharaan *gas chromatograph* (GC)					
	4,1 GC terpelihara dan berfungsi					
	5 Melakukan pemeliharaan *grounding* dan *lightning protection system*					
	5,1 Tersedianya data pengukuran grounding system (*grounding ring, grounding rod*, PEB)	2	set	2		100,00%
	5,2 Tersedianya data pengukuran internal proteksi (*arrester power*, *arrester data*, *arrester communication*)	2	set	2		100,00%
	5,3 Tersedianya data pengukuran eksternal proteksi (*finial*, *down conductor*, LEC)	2	set	2		100,00%
	6 Melakukan operasi dan pemeliharaan terhadap sistem *Gas Engine Generator (GEG)* dan *Diesel Engine Generator (DEG)*					
	6,1 GEG dan DEG beroperasi dan berfungsi sesuai *requirement*	4	unit	4		100,00%
	6,2 Hasil *Condition Monitoring and Fault Diagnosis* (CMFD) berupa *Vibration (Level & Spectrum), Oil Analysis, Thermography, Power Analysis* (*Generator*), dll berada pada *Acceptance Level*	4	unit	4		100,00%
	7 Melakukan operasi dan pemeliharaan terhadap sistem UPS					
	7,1 UPS beroperasi dan berfungsi sesuai requirement	4	unit	4		100,00%
	7,2 Hasil Condition Monitoring and Fault Diagnosis (CMFD) berupa Thermography, Sampling Method, dll berada pada Acceptance Level.	4	unit	4		100,00%
	8 Melakukan pemeliharaan sistem pengamanan di sistem perpipaan					
	8,1 *Gas Detector* terpelihara dan berfungsi	11	unit	11		100,00%
	8,2 *Filter* terpelihara dan berfungsi	2	unit	2		100,00%
14.1.I	Inspeksi dan Pemeliharaan Compressor Station					
	1 Melakukan operasi dan pemeliharaan terhadap sistem gas turbine					
	1,1 Gas turbine beroperasi dan berfungsi sesuai requirement					
	1,2 Hasil Condition Monitoring and Fault Diagnosis (CMFD) berupa Vibration (Level & Spectrum), Oil Analysis, Thermography, Pressure, dll berada pada Acceptance Level					
	2 Melakukan operasi dan pemeliharaan terhadap sistem compressor					
	2,1 Compressor beroperasi dan berfungsi sesuai requirement					
	2,2 Hasil Condition Monitoring and Fault Diagnosis (CMFD) berupa Vibration (Level & Spectrum), Oil Analysis, Thermography, Pressure, dll berada pada Acceptance Level					
14.1.J	Penyediaan dan Penggantian Suku Cadang					
	1 Melakukan penyediaan suku cadang untuk seluruh kebutuhan operasional					
	1,1 Tersedianya suku cadang untuk kegiatan operasional sesuai dengan spesifikasi dan kebutuhannya	1	ls	1		100,00%
	1,2 Terlaksananya kegiatan penggantian suku cadang	1	ls	1		100,00%
14.1.K	Melakukan kalibrasi dan legalisasi alat ukur					
	1 Melakukan kalibrasi dan legalisasi meter					

No	Item Pekerjaan			Target		Performance		PI
				Jumlah	Satuan	Sesuai	Tidak Sesuai	(%)
(1)	(2)			(3)	(4)	(5)	(6)	(7)
		1,1	Seluruh meter terpasang memiliki masa kalibrasi dan legalisasi yang masih berlaku					
	2	Melakukan penggantian Meter						
		2,1	Terlaksananya penggantian untuk meter yang perlu diganti					
	3	Melakukan kalibrasi dan legalisasi pressure dan temperature gauge						
		3,1	Seluruh pressure dan temperature gauge terpasang memiliki masa kalibrasi dan legalisasi yang masih berlaku					
	4	Melakukan penggantian pressure dan temperature gauge						
		4,1	Terlaksananya penggantian untuk pressure dan temperature gauge yang perlu diganti	1	ls	1		100,00%
	5	Melakukan kalibrasi dan legalisasi Sistem Meter Stasiun Penerima (Offtake)						
		5,1	Seluruh sistem meter stasiun penerima (offtake) memiliki masa kalibrasi dan legalisasi yang masih berlaku					
	6	Melakukan kalibrasi dan legalisasi master meter (sistem kalibrator)						
		6,1	Seluruh master meter (sistem kalibrator) memiliki masa kalibrasi dan legalisasi yang masih berlaku					
	7	Melakukan kalibrasi dan legalisasi EVC						
		7,1	Seluruh EVC terpasang memiliki masa kalibrasi yang masih berlaku					
	8	Melakukan penggantian EVC						
		8,1	Terlaksananya penggantian untuk EVC yang perlu diganti	1	ls	1		100,00%
14.1.L	Update Data Historis Inspeksi dan Pemeliharaan Jaringan dan Fasilitas							
	1	Menyediakan database historical data hasil kegiatan inspeksi dan pemeliharaan jaringan dan fasilitas						
			Tersedianya database historical data hasil kegiatan inspeksi dan pemeliharaan jaringan dan fasilitas meliputi					
		1,1	Status jaringan dan dokumentasi kegiatan inspeksi dan pemeliharaan Jaringan Pipa Gas (kebocoran, jembatan, marker, patok)	1	ls	1		100,00%
		1,2	Status fasilitas dan dokumentasi kegiatan inspeksi dan pemeliharaan Sistem Proteksi Katodik (testbox, TR)	1	ls	1		100,00%
		1,3	Status fasilitas dan dokumentasi kegiatan inspeksi dan pemeliharaan Sistem Valve (bak valve, valve)	1	ls	1		100,00%
		1,4	Status fasilitas dan dokumentasi kegiatan inspeksi dan pemeliharaan Stasiun Gas MR/S Pelanggan (meter-kalibrasi)					
		1,5	Status fasilitas dan dokumentasi kegiatan inspeksi dan pemeliharaan Stasiun Gas MR/S Non Pelanggan (meter-kalibrasi)					
		1,6	Status fasilitas dan dokumentasi kegiatan inspeksi dan pemeliharaan Stasiun Gas MR/S Offtake & Bulk Costumer (meter-kalibrasi)					
		1,7	Status fasilitas dan dokumentasi kegiatan inspeksi dan pemeliharaan Stasiun Pembagi					
		1,8	Status fasilitas dan dokumentasi kegiatan inspeksi dan pemeliharaan Stasiun Transmisi	1	ls	1		100,00%
		1,9	Status fasilitas dan dokumentasi kegiatan inspeksi dan pemeliharaan Compressor Station					
	2	Menyediakan data historis kegiatan integrity						
		2,1	Tersedianya database historis profil resiko secara tabular dan spasial					
	3	Melakukan update master data aset hasil penggantian atau modifikasi jaringan dan fasilitas						
		3,1	Tersedianya update data aset terkait pengantian suku cadang	1	ls	1		100,00%
		3,2	Tersedianya update data aset terkait akibat relokasi	1	ls	1		100,00%
		3,3	Tersedianya update data aset terkait tagging	1	ls	1		100,00%
								100,00%

Dibuat,	Diperiksa,	Diperiksa,	Disetujui,	Diketahui,
Rekayasa Teknik	Jr. Engineer O&P Fasilitas	Jr. Engineer O&P Jaringan	Pjs. Kepala Proyek Operasi	ART
Transmisi Area Lampung	Area Lampung	Area Lampung	Area Lampung	Transmisi Area Lampung
Riska Yulianti	Akhmad Afandi	Sanghiang Bikeu Hejang	Juvinus Sembiring	Eka Perkasa

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No			Item Pekerjaan	Target		Performance		PI
				Jumlah	Satuan	Sesuai	Tidak Sesuai	(%)
(1)			(2)	(3)	(4)	(5)	(6)	(7)
14.1.A			Pemeliharaan dan Monitoring Jaringan Pipa Gas					
	1		Melakukan inspeksi dan pemeliharaan jalur jaringan pipa gas onshore dan landfall di Right of Way					
		1.1	Vegetasi terkendali, tidak ada tanaman berbatang keras	251.8	km	251.8	0	100.00%
		1.2	Situasi dan kondisi ROW terkendali dari gangguan eksternal dan natural act, terdokumentasi dan tercatat	251.8	km	251.8	0	100.00%
		1.3	Kebocoran terdeteksi, tertangani, tercatat, dan terdokumentasi					
		1.4	Crossing pipa gas dengan utilitas lain teridentifikasi dan terdokumentasi	100	%	100	0	100.00%
		1.5	Akses patroli terjangkau	251.8	km	251.8	0	100.00%
	2		Melakukan inspeksi dan pemeliharaan jalur jaringan pipa gas offshore					
		2.1	Jalur pipa terkendali dari aktivitas eksternal					
		2.2	Kebocoran terdeteksi, tertangani, tercatat, dan terdokumentasi					
	3		Melakukan inspeksi dan pemeliharaan jalur jaringan pipa gas onshore tanpa ROW					
		3.1	Lingkungan di atas jalur pipa termonitor dan terdokumentasi					
		3.2	Kebocoran terdeteksi, tertangani, tercatat, dan terdokumentasi					
		3.3	Akses patroli terjangkau					
		3.4	Jalur pipa terkendali dari aktivitas eksternal					
	4		Menyediakan tracking waypoint GPS (Vehicle Tracking System, Inova Track) di setiap kendaraan operasional Tim O&M					
		4.1	Terpasangnya servis VTS Fleet *Inova Track* pada database PGN (berlangganan servis)	100	%	100	0	100.00%
		4.2	Tersedianya database VTS *real-time*	100	%	100	0	100.00%
		4.3	Sistem *Inova Track* yang sinkron dengan DIGIO	100	%	100	0	100.00%
	5		Melakukan inspeksi dan pemeliharaan pada jaringan pipa gas *above ground* dan jembatan pipa gas					
		5.1	Kondisi jaringan pipa *above ground* dan jembatan pipa gas terpelihara					
		5.2	Korosi pada pipa *above ground* dan jembatan pipa gas tertangani, termonitor, dan terdokumentasi disertai *action plan* untuk mitigasinya					
		5.3	Kondisi pondasi jembatan pipa terkendali dari potensi bahaya					
	6		Melakukan pemeliharan pada rambu-rambu					
		6.1	Warning sign pada jalur pipa teridentifikasi, terpelihara, lengkap dan terupdate informasinya	483	unit	483	0	100.00%
		6.2	Marker post, termasuk didalamnya Aerial Marker pada jalur pipa teridentifikasi, terpelihara, lengkap dan terupdate informasinya	546	unit	546	0	100.00%
		6.3	Patok gas pada jalur pipa teridentifikasi, terpelihara dan lengkap	906	unit	906	0	100.00%
		6.4	Lingkungan sekitar rambu-rambu terkendali					
14.1.B			Inspeksi dan Pemeliharaan Sistem Proteksi Katodik					
	1		Melakukan inspeksi dan pemeliharaan sistem proteksi katodik					
		1.1	Nilai proteksi dalam range sesuai dengan standard	171	unit	171	0	100.00%
		1.2	Test box lengkap, teridentifikasi, terpelihara dan berfungsi	171	unit	171	0	100.00%
		1.3	TR terpelihara dan berfungsi	4	unit	4	0	100.00%
		1.4	Rumah TR terpelihara	4	unit	4	0	100.00%
14.1.C			Inspeksi dan Pemeliharaan Sistem *Valve*					
	1		Melakukan inspeksi dan pemeliharaan sistem *valve* pada jaringan pipa					
		1.1	Kondisi bak *valve* lengkap, teridentifikasi dan terpelihara					
		1.2	Kondisi pagar *sectional* dan *future connection valve* lengkap dan terpelihara	11	unit	11	0	100.00%
		1.3	*Sectional/line valve* lengkap dan terpelihara	11	unit	11	0	100.00%
		1.4	*Name Plate/Tagging* /Identitas Aset lengkap dan informatif					
		1.5	*Valve* terpelihara dan berfungsi	133	unit	133	0	100.00%
14.1.D			Inspeksi dan Pemeliharaan Stasiun Gas MR/S Pelanggan					
	1		Melakukan inspeksi dan pemeliharaan pagar dan box MR/S					
		1.1	Kondisi pagar dan box MR/S lengkap					
		1.2	Korosi pada pagar dan box MR/S terkendali					
		1.3	Tidak terjadi dislokasi pada pondasi box MR/S					

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No	Item Pekerjaan			Target		Performance		PI
				Jumlah	Satuan	Sesuai	Tidak Sesuai	(%)
(1)	(2)			(3)	(4)	(5)	(6)	(7)
		1.4	Vegetasi dan kebersihan lingkungan box MR/S terjaga					
	2		Melakukan inspeksi dan pemeliharaan pada sistem MR/S					
		2.1	Metering berfungsi, terdapat tanda tera sah, stiker kalibrasi yang sah dan tersegel					
		2.2	*Temperature gauge* berfungsi, terdapat stiker kalibrasi yang sah					
		2.3	*Pressure gauge* berfungsi, terdapat stiker kalibrasi yang sah					
		2.4	Sistem EVC berfungsi, tersegel dan terpelihara					
		2.5	Sistem regulator lengkap, berfungsi dan terpelihara					
		2.6	Sistem perpipaan terkendali dari korosi					
		2.7	Filter terpelihara dan berfungsi					
		2.8	Sistem *valve* terpelihara dan berfungsi					
		2.9	Sistem Telemeteri lengkap, berfungsi dan terpelihara					
		2.10	Name Plate/Tagging/Identitas Aset lengkap dan informatif					
		2.11	Kartu gantung MR/S tersedia dan informatif					
14.1.E	Inspeksi dan Pemeliharaan Stasiun Gas Non Pelanggan							
	1		Melakukan inspeksi dan pemeliharaan pagar dan box MR/S					
		1.1	Kondisi pagar dan box MR/S lengkap					
		1.2	Korosi pada pagar dan box MR/S terkendali					
		1.3	Tidak terjadi dislokasi pada pondasi box MR/S					
		1.4	Vegetasi dan kebersihan lingkungan box MR/S terjaga					
	2		Melakukan inspeksi dan pemeliharaan pada sistem MR/S					
		2.1	Metering berfungsi, terdapat tanda tera sah, stiker kalibrasi yang sah dan tersegel					
		2.2	*Temperature gauge* berfungsi, terdapat stiker kalibrasi yang sah					
		2.3	*Pressure gauge* berfungsi, terdapat stiker kalibrasi yang sah					
		2.4	Sistem EVC berfungsi, tersegel dan terpelihara					
		2.5	Sistem regulator lengkap, berfungsi dan terpelihara					
		2.6	Sistem perpipaan terkendali dari korosi					
		2.7	Filter terpelihara dan berfungsi					
		2.8	Sistem *valve* terpelihara dan berfungsi					
		2.9	Sistem Telemeteri lengkap, berfungsi dan terpelihara					
		2.10	Name Plate/Tagging/Identitas Aset lengkap dan informatif					
		2.11	Kartu gantung MR/S tersedia dan informatif					
14.1.F	Inspeksi dan Pemeliharaan Offtake Station dan Bulk Customer							
	1		Melakukan pemeliharaan di sistem meter					
		1.1	Metering berfungsi, memiliki tanda tera sah, stiker kalibrasi yang sah dan tersegel					
		1.2	*Flow computer* berfungsi dan memiliki tanda tera sah					
		1.3	*Transmitter* berfungsi, terpelihara dan tersegel					
		1.4	*Temperature gauge* berfungsi, memiliki stiker kalibrasi yang sah					
		1.5	*Pressure gauge* berfungsi, memiliki stiker kalibrasi yang sah					
	2		Melakukan pemeliharaan alat ukur di offtake station					
		2.1	*Temperature gauge* berfungsi, akurat, terpelihara dan ditera sesuai periode					
		2.2	*Pressure gauge* berfungsi, akurat, terpelihara dan ditera sesuai periode					
		2.3	Sistem alat ukur (temperature dan tekanan) lengkap, berfungsi, terpelihara dan terkalibrasi					
	3		Melakukan pemeliharaan sistem perpipaan dan valve di offtake station					
		3.1	Sistem perpipaan terkendali dari korosi					
		3.2	Sistem valve terpelihara dan berfungsi					
	4		Melakukan pemeliharaan sistem regulator di offtake station					
		4.1	Sistem regulator lengkap, berfungsi dan terpelihara					
	5		Melakukan pemeliharaan sistem pengaman di offtake					
		5.1	*Filter* terpelihara dan berfungsi					
		5.2	*Flow/Pressure Control Valve* (F/PCV) terpelihara dan berfungsi					
		5.3	*Gas Detector* terpelihara dan berfungsi					
		5.4	Sistem *Odorant* terpelihara dan berfungsi					
	6		Melakukan pemeliharaan gas chromatograph (GC)					

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No	Item Pekerjaan			Target		Performance		PI
				Jumlah	Satuan	Sesuai	Tidak Sesuai	(%)
(1)	(2)			(3)	(4)	(5)	(6)	(7)
		6.1	GC terpelihara dan berfungsi					
	7		Melakukan operasi dan pemeliharaan terhadap sistem Gas Engine Generator (GEG) dan Diesel Engine Generator (DEG)					
		7.1	Gas turbine beroperasi dan berfungsi sesuai requirement					
		7.2	Hasil Condition Monitoring and Fault Diagnosis (CMFD) berupa Vibration (Level), Oil Analysis, Thermography, Power Analysis (Generator), dll berada pada Acceptance Level					
	8		Melakukan pemeliharaan terhadap sistem UPS					
		8.1	UPS beroperasi dan berfungsi sesuai requirement					
		8.2	Hasil Condition Monitoring and Fault Diagnosis (CMFD) berupa Thermography, Sampling Method, dll berada pada Acceptance Level.					
14.1.G	Inspeksi dan Pemeliharaan Stasiun Pembagi							
	1		Melakukan pemeliharaan di sistem meter					
		1.1	Metering berfungsi, memiliki tanda tera sah, stiker kalibrasi yang sah dan tersegel					
		1.2	*Flow computer* berfungsi dan memiliki tanda tera sah					
		1.3	*Transmitter* berfungsi, terpelihara dan tersegel					
		1.4	*Temperature gauge* berfungsi, memiliki stiker kalibrasi yang sah					
		1.5	*Pressure gauge* berfungsi, memiliki stiker kalibrasi yang sah					
	2		Melakukan pemeliharaan alat ukur					
		2.1	*Temperature gauge* berfungsi, akurat, terpelihara dan ditera sesuai periode					
		2.2	*Pressure gauge* berfungsi, akurat, terpelihara dan ditera sesuai periode					
	3		Melakukan pemeliharaan sistem perpipaan dan valve					
		3.1	Sistem perpipaan terkendali dari korosi					
		3.2	Sistem valve terpelihara dan berfungsi					
	4		Melakukan pemeliharaan sistem regulator					
		4.1	Sistem regulator lengkap, berfungsi dan terpelihara					
	5		Melakukan pemeliharaan sistem pengaman					
		5.1	*Filter* terpelihara dan berfungsi					
		5.2	*Flow/Pressure Control Valve* (F/PCV) terpelihara dan berfungsi					
		5.3	*Gas Detector* terpelihara dan berfungsi					
	6		Melakukan operasi dan pemeliharaan terhadap sistem Gas Engine Generator (GEG) dan Diesel Engine Generator (DEG)					
		6.1	GEG dan DEG beroperasi dan berfungsi sesuai requirement					
		6.2	Hasil Condition Monitoring and Fault Diagnosis (CMFD) berupa Vibration (Level), Oil Analysis, Thermography, Power Analysis (Generator), dll berada pada Acceptance Level					
	7		Melakukan pemeliharaan terhadap sistem UPS					
		7.1	UPS beroperasi dan berfungsi sesuai requirement					
		7.2	Hasil Condition Monitoring and Fault Diagnosis (CMFD) berupa Thermography, Sampling Method, dll berada pada Acceptance Level.					
14.1.H	Inspeksi dan Pemeliharaan Stasiun Gas Transmisi							
	1		Melakukan pemeliharaan sistem meter di stasiun gas					
		1.1	Metering berfungsi, memiliki tanda tera sah, stiker kalibrasi yang sah dan tersegel	4	unit	4	0	100.00%
		1.2	*Flow computer* berfungsi dan memiliki tanda tera sah	3	unit	3	0	100.00%
		1.3	*Transmitter* berfungsi, terpelihara dan tersegel	13	unit	13	0	100.00%
		1.4	*Temperature gauge* berfungsi, memiliki stiker kalibrasi yang sah	4	unit	4	0	100.00%
		1.5	*Pressure gauge* berfungsi, memiliki stiker kalibrasi yang sah	9	unit	9	0	100.00%
	2		Melakukan pemeliharaan alat ukur di stasiun gas					
		2.1	*Temperature gauge* berfungsi, memiliki stiker kalibrasi yang sah	11	unit	11	0	100.00%
		2.2	*Pressure gauge* berfungsi, memiliki stiker kalibrasi yang sah	29	unit	29	0	100.00%
		2.3	Sistem alat ukur (temperature dan tekanan) lengkap, berfungsi, terpelihara dan terkalibrasi	28	ls	28	0	100.00%
	3		Melakukan pemeliharaan sistem perpipaan dan valve di stasiun gas					
		3.1	Sistem perpipaan terkendali dari korosi	400	%	400	0	100.00%

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				Jumlah	Satuan	Sesuai	Tidak Sesuai	(%)
(1)	(2)			(3)	(4)	(5)	(6)	(7)
		3.2	Sistem valve terpelihara dan berfungsi	357	unit	357	0	100.00%
		3.3	Kondisi *corrosion coupon* termonitor dan tercatat	4	unit	4	0	100.00%
		3.4	Pressurize tank system terpelihara dan berfungsi	11	unit	11	0	100.00%
		3.5	Sistem Odorant terpelihara dan berfungsi	2	unit	2	0	100.00%
	4	Melakukan pemeliharaan *gas chromatograph* (GC)						
		4.1	GC terpelihara dan berfungsi	3	unit	3	0	100.00%
	5	Melakukan pemeliharaan *grounding* dan *lightning protection system*						
		5.1	Tersedianya data pengukuran grounding system (*grounding ring, grounding rod* , PEB)	4	set	4	0	100.00%
		5.2	Tersedianya data pengukuran internal proteksi (*arrester power* , *arrester data* , *arrester communication*)	5	set	5	0	100.00%
		5.3	Tersedianya data pengukuran eksternal proteksi (*finial* , *down conductor*, LEC)	5	set	5	0	100.00%
	6	Melakukan operasi dan pemeliharaan terhadap sistem *Gas Engine Generator (GEG)* dan *Diesel Engine Generator (DEG)*						
		6.1	GEG dan DEG beroperasi dan berfungsi sesuai requirement	7	unit	7	0	100.00%
		6.2	Hasil *Condition Monitoring and Fault Diagnosis* (CMFD) berupa *Vibration (Level & Spectrum), Oil Analysis, Thermography, Power Analysis* (*Generator*), dll berada pada *Acceptance Level*	7	unit	7	0	100.00%
	7	Melakukan operasi dan pemeliharaan terhadap sistem UPS						
		7.1	UPS beroperasi dan berfungsi sesuai requirement	10	unit	10	0	100.00%
		7.2	Hasil Condition Monitoring and Fault Diagnosis (CMFD) berupa Thermography, Sampling Method, dll berada pada Acceptance Level.	10	unit	10	0	100.00%
	8	Melakukan pemeliharaan sistem pengamanan di sistem perpipaan						
		8.1	*Gas Detector* terpelihara dan berfungsi	30	unit	30	0	100.00%
		8.2	*Filter* terpelihara dan berfungsi	11	unit	11	0	100.00%
14.1.I	Inspeksi dan Pemeliharaan Compressor Station							
	1	Melakukan operasi dan pemeliharaan terhadap sistem gas turbine						
		1.1	Gas turbine beroperasi dan berfungsi sesuai requirement	3	unit	3	0	100.00%
		1.2	Hasil Condition Monitoring and Fault Diagnosis (CMFD) berupa Vibration (Level & Spectrum), Oil Analysis, Thermography, Pressure, dll berada pada Acceptance Level	3	unit	3	0	100.00%
	2	Melakukan operasi dan pemeliharaan terhadap sistem compressor						
		2.1	Compressor beroperasi dan berfungsi sesuai requirement	3	unit	3	0	100.00%
		2.2	Hasil Condition Monitoring and Fault Diagnosis (CMFD) berupa Vibration (Level & Spectrum), Oil Analysis, Thermography, Pressure, dll berada pada Acceptance Level	3	unit	3	0	100.00%
14.1.J	Penyediaan dan Penggantian Suku Cadang							
	1	Melakukan penyediaan suku cadang untuk seluruh kebutuhan operasional						
		1.1	Tersedianya suku cadang untuk kegiatan operasional sesuai dengan spesifikasi dan kebutuhannya	8	ls	8	0	100.00%
		1.2	Terlaksananya kegiatan penggantian suku cadang	6	ls	6	0	100.00%
14.1.K	Melakukan kalibrasi dan legalisasi alat ukur							
	1	Melakukan kalibrasi dan legalisasi meter						
		1.1	Seluruh meter terpasang memiliki masa kalibrasi dan legalisasi yang masih berlaku					
	2	Melakukan penggantian Meter						
		2.1	Terlaksananya penggantian untuk meter yang perlu diganti					
	3	Melakukan kalibrasi dan legalisasi pressure dan temperature gauge						
		3.1	Seluruh pressure dan temperature gauge terpasang memiliki masa kalibrasi dan legalisasi yang masih berlaku					
	4	Melakukan penggantian pressure dan temperature gauge						
		4.1	Terlaksananya penggantian untuk pressure dan temperature gauge yang perlu diganti					
	5	Melakukan kalibrasi dan legalisasi Sistem Meter Stasiun Penerima (Offtake)						

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				Jumlah	Satuan	Sesuai	Tidak Sesuai	(%)
(1)	(2)			(3)	(4)	(5)	(6)	(7)
		5.1	Seluruh sistem meter stasiun penerima (offtake) memiliki masa kalibrasi dan legalisasi yang masih berlaku					
	6		Melakukan kalibrasi dan legalisasi master meter (sistem kalibrator)					
		6.1	Seluruh master meter (sistem kalibrator) memiliki masa kalibrasi dan legalisasi yang masih berlaku					
	7		Melakukan kalibrasi dan legalisasi EVC					
		7.1	Seluruh EVC terpasang memiliki masa kalibrasi yang masih berlaku					
	8		Melakukan penggantian EVC					
		8.1	Terlaksananya penggantian untuk EVC yang perlu diganti					
14.1.L	Update Data Historis Inspeksi dan Pemeliharaan Jaringan dan Fasilitas							
	1		Menyediakan database historical data hasil kegiatan inspeksi dan pemeliharaan jaringan dan fasilitas	1	ls	1	ls	100.00%
			Tersedianya database historical data hasil kegiatan inspeksi dan pemeliharaan jaringan dan fasilitas meliputi	1	ls	1	ls	100.00%
		1.1	Status jaringan dan dokumentasi kegiatan inspeksi dan pemeliharaan Jaringan Pipa Gas (kebocoran, jembatan, marker, patok)	1	ls	1	ls	100.00%
		1.2	Status fasilitas dan dokumentasi kegiatan inspeksi dan pemeliharaan Sistem Proteksi Katodik (testbox, TR)	1	ls	1	ls	100.00%
		1.3	Status fasilitas dan dokumentasi kegiatan inspeksi dan pemeliharaan Sistem Valve (bak valve, valve)	1	ls	1	ls	100.00%
		1.4	Status fasilitas dan dokumentasi kegiatan inspeksi dan pemeliharaan Stasiun Gas MR/S Pelanggan (meter-kalibrasi)					
		1.5	Status fasilitas dan dokumentasi kegiatan inspeksi dan pemeliharaan Stasiun Gas MR/S Non Pelanggan (meter-kalibrasi)	1	ls	1	ls	100.00%
		1.6	Status fasilitas dan dokumentasi kegiatan inspeksi dan pemeliharaan Stasiun Gas MR/S Offtake & Bulk Costumer (meter-kalibrasi)	1	ls	1	ls	100.00%
		1.7	Status fasilitas dan dokumentasi kegiatan inspeksi dan pemeliharaan Stasiun Pembagi					
		1.8	Status fasilitas dan dokumentasi kegiatan inspeksi dan pemeliharaan Stasiun Transmisi					
		1.9	Status fasilitas dan dokumentasi kegiatan inspeksi dan pemeliharaan Compressor Station					
	2		Menyediakan data historis kegiatan integrity					
		2.1	Tersedianya database historis profil resiko secara tabular dan spasial					
	3		Melakukan update master data aset hasil penggantian atau modifikasi jaringan dan fasilitas					
		3.1	Tersedianya update data aset terkait pengantian suku cadang					
		3.2	Tersedianya update data aset terkait akibat relokasi					
		3.3	Tersedianya update data aset terkait tagging					
								100.00%

Diperiksa, QC PGASSOL Jaringan Area Transmisi Sumsel	Diperiksa, QC PGASSOL Fasilitas Area Transmisi Sumsel	Diperiksa, QC PGASSOL Kompresor Area Transmisi Sumsel	Disetujui, PGASSOL Area Sumsel	Diketahui, PGN ARM Zona Sumsel
Firman Budiman	Rizky W Budiman	Genius NJ	Bunyamin	Santoso Priyo Pratomo

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				Jumlah	Satuan	Sesuai	Tidak Sesuai	(%)
(1)	(2)			(3)	(4)	(5)	(6)	(7)
14.1.A	Pemeliharaan dan Monitoring Jaringan Pipa Gas							
	1	Melakukan inspeksi dan pemeliharaan jalur jaringan pipa gas onshore dan landfall di Right of						
		1,1	Vegetasi terkendali, tidak ada tanaman berbatang keras	2,9	km	2,9		100,00%
		1,2	Situasi dan kondisi ROW terkendali dari gangguan eksternal dan natural act, terdokumentasi dan tercatat	2,9	km	2,9		100,00%
		1,3	Kebocoran terdeteksi, tertangani, tercatat, dan terdokumentasi					
		1,4	Crossing pipa gas dengan utilitas lain teridentifikasi dan terdokumentasi					
		1,5	Akses patroli terjangkau	2,9	km	2,9		100,00%
	2	Melakukan inspeksi dan pemeliharaan jalur jaringan pipa gas offshore						
		2,1	Jalur pipa terkendali dari aktivitas eksternal	265,1	km	265,1		100,00%
		2,2	Kebocoran terdeteksi, tertangani, tercatat, dan terdokumentasi					
	3	Melakukan inspeksi dan pemeliharaan jalur jaringan pipa gas onshore tanpa ROW						
		3,1	Lingkungan di atas jalur pipa termonitor dan terdokumentasi					
		3,2	Kebocoran terdeteksi, tertangani, tercatat, dan terdokumentasi					
		3,3	Akses patroli terjangkau					
		3,4	Jalur pipa terkendali dari aktivitas eksternal					
	4	Menyediakan tracking waypoint GPS (Vehicle Tracking System, Inova Track) di setiap kendaraan operasional Tim O&M						
		4,1	Terpasangnya servis VTS Fleet *Inova Track* pada database PGN (berlangganan servis)	100	%	100		100,00%
		4,2	Tersedianya database VTS *real-time*	100	%	100		100,00%
		4,3	Sistem *Inova Track* yang sinkron dengan DIGIO	100	%	100		100,00%
	5	Melakukan inspeksi dan pemeliharaan pada jaringan pipa gas *above ground* dan jembatan pipa gas						
		5,1	Kondisi jaringan pipa *above ground* dan jembatan pipa gas terpelihara					
		5,2	Korosi pada pipa *above ground* dan jembatan pipa gas tertangani, termonitor, dan terdokumentasi disertai *action plan* untuk mitigasinya					
		5,3	Kondisi pondasi jembatan pipa terkendali dari potensi bahaya					
	6	Melakukan pemeliharan pada rambu-rambu						
		6,1	Warning sign pada jalur pipa teridentifikasi, terpelihara, lengkap dan terupdate informasinya	38	unit	38		100,00%
		6,2	Marker post, termasuk didalamnya Aerial Marker pada jalur pipa teridentifikasi, terpelihara, lengkap dan terupdate informasinya	117	unit	117		100,00%
		6,3	Patok gas pada jalur pipa teridentifikasi, terpelihara dan lengkap	145	unit	145		100,00%
		6,4	Lingkungan sekitar rambu-rambu terkendali					
14.1.B	Inspeksi dan Pemeliharaan Sistem Proteksi Katodik							
	1	Melakukan inspeksi dan pemeliharaan sistem proteksi katodik		4	unit	4		100,00%
		1,1	Nilai proteksi dalam range sesuai dengan standard	5	unit	5		100,00%
		1,2	Test box lengkap, teridentifikasi, terpelihara dan berfungsi					
		1,3	TR terpelihara dan berfungsi					
		1,4	Rumah TR terpelihara					
14.1.C	Inspeksi dan Pemeliharaan Sistem *Valve*							
	1	Melakukan inspeksi dan pemeliharaan sistem *valve* pada jaringan pipa						
		1,1	Kondisi bak *valve* lengkap, teridentifikasi dan terpelihara					
		1,2	Kondisi pagar *sectional* dan *future connection valve* lengkap dan terpelihara	1	unit	1		100,00%
		1,3	*Sectional/line valve* lengkap dan terpelihara					
		1,4	*Name Plate/Tagging* /Identitas Aset lengkap dan informatif					
		1,5	*Valve* terpelihara dan berfungsi					
14.1.D	Inspeksi dan Pemeliharaan Stasiun Gas MR/S Pelanggan							
	1	Melakukan inspeksi dan pemeliharaan pagar dan box MR/S						
		1,1	Kondisi pagar dan box MR/S lengkap					
		1,2	Korosi pada pagar dan box MR/S terkendali					
		1,3	Tidak terjadi dislokasi pada pondasi box MR/S					
		1,4	Vegetasi dan kebersihan lingkungan box MR/S terjaga					
	2	Melakukan inspeksi dan pemeliharaan pada sistem MR/S						
		2,1	Metering berfungsi, terdapat tanda tera sah, stiker kalibrasi yang sah dan tersegel					
		2,2	*Temperature gauge* berfungsi, terdapat stiker kalibrasi yang sah					
		2,3	*Pressure gauge* berfungsi, terdapat stiker kalibrasi yang sah					
		2,4	Sistem EVC berfungsi, tersegel dan terpelihara					
		2,5	Sistem regulator lengkap, berfungsi dan terpelihara					
		2,6	Sistem perpipaan terkendali dari korosi					
		2,7	Filter terpelihara dan berfungsi					
		2,8	Sistem *valve* terpelihara dan berfungsi					
		2,9	Sistem Telemeteri lengkap, berfungsi dan terpelihara					
		2.10	Name Plate/Tagging/Identitas Aset lengkap dan informatif					
		2.11	Kartu gantung MR/S tersedia dan informatif					

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				Jumlah	Satuan	Sesuai	Tidak Sesuai	(%)
(1)	(2)			(3)	(4)	(5)	(6)	(7)
14.1.E	Inspeksi dan Pemeliharaan Stasiun Gas Non Pelanggan							
	1	Melakukan inspeksi dan pemeliharaan pagar dan box MR/S						
		1,1	Kondisi pagar dan box MR/S lengkap					
		1,2	Korosi pada pagar dan box MR/S terkendali					
		1,3	Tidak terjadi dislokasi pada pondasi box MR/S					
		1,4	Vegetasi dan kebersihan lingkungan box MR/S terjaga					
	2	Melakukan inspeksi dan pemeliharaan pada sistem MR/S						
		2,1	Metering berfungsi, terdapat tanda tera sah, stiker kalibrasi yang sah dan tersegel					
		2,2	*Temperature gauge* berfungsi, terdapat stiker kalibrasi yang sah					
		2,3	*Pressure gauge* berfungsi, terdapat stiker kalibrasi yang sah					
		2,4	Sistem EVC berfungsi, tersegel dan terpelihara					
		2,5	Sistem regulator lengkap, berfungsi dan terpelihara					
		2,6	Sistem perpipaan terkendali dari korosi					
		2,7	Filter terpelihara dan berfungsi					
		2,8	Sistem *valve* terpelihara dan berfungsi					
		2,9	Sistem Telemeteri lengkap, berfungsi dan terpelihara					
		2.10	Name Plate/Tagging/Identitas Aset lengkap dan informatif					
		2.11	Kartu gantung MR/S tersedia dan informatif					
14.1.F	Inspeksi dan Pemeliharaan Offtake Station dan Bulk Customer							
	1	Melakukan pemeliharaan di sistem meter						
		1,1	Metering berfungsi, memiliki tanda tera sah, stiker kalibrasi yang sah dan tersegel					
		1,2	*Flow computer* berfungsi dan memiliki tanda tera sah					
		1,3	*Transmitter* berfungsi, terpelihara dan tersegel					
		1,4	*Temperature gauge* berfungsi, memiliki stiker kalibrasi yang sah					
		1,5	*Pressure gauge* berfungsi, memiliki stiker kalibrasi yang sah					
	2	Melakukan pemeliharaan alat ukur di offtake station						
		2,1	*Temperature gauge* berfungsi, akurat, terpelihara dan ditera sesuai periode					
		2,2	*Pressure gauge* berfungsi, akurat, terpelihara dan ditera sesuai periode					
		2,3	Sistem alat ukur (temperature dan tekanan) lengkap, berfungsi, terpelihara dan terkalibrasi					
	3	Melakukan pemeliharaan sistem perpipaan dan valve di offtake station						
		3,1	Sistem perpipaan terkendali dari korosi					
		3,2	Sistem valve terpelihara dan berfungsi					
	4	Melakukan pemeliharaan sistem regulator di offtake station						
		4,1	Sistem regulator lengkap, berfungsi dan terpelihara					
	5	Melakukan pemeliharaan sistem pengaman di offtake						
		5,1	*Filter* terpelihara dan berfungsi					
		5,2	*Flow/Pressure Control Valve* (F/PCV) terpelihara dan berfungsi					
		5,3	*Gas Detector* terpelihara dan berfungsi					
		5,4	Sistem *Odorant* terpelihara dan berfungsi					
	6	Melakukan pemeliharaan gas chromatograph (GC)						
		6,1	GC terpelihara dan berfungsi					
	7	Melakukan operasi dan pemeliharaan terhadap sistem Gas Engine Generator (GEG) dan Diesel Engine Generator (DEG)						
		7,1	Gas turbine beroperasi dan berfungsi sesuai requirement					
		7,2	Hasil Condition Monitoring and Fault Diagnosis (CMFD) berupa Vibration (Level), Oil Analysis, Thermography, Power Analysis (Generator), dll berada pada Acceptance Level					
	8	Melakukan pemeliharaan terhadap sistem UPS						
		8,1	UPS beroperasi dan berfungsi sesuai requirement					
		8,2	Hasil Condition Monitoring and Fault Diagnosis (CMFD) berupa Thermography, Sampling Method, dll berada pada Acceptance Level.					
14.1.G	Inspeksi dan Pemeliharaan Stasiun Pembagi							
	1	Melakukan pemeliharaan di sistem meter						
		1,1	Metering berfungsi, memiliki tanda tera sah, stiker kalibrasi yang sah dan tersegel					
		1,2	*Flow computer* berfungsi dan memiliki tanda tera sah					
		1,3	*Transmitter* berfungsi, terpelihara dan tersegel					
		1,4	*Temperature gauge* berfungsi, memiliki stiker kalibrasi yang sah					
		1,5	*Pressure gauge* berfungsi, memiliki stiker kalibrasi yang sah					
	2	Melakukan pemeliharaan alat ukur						
		2,1	*Temperature gauge* berfungsi, akurat, terpelihara dan ditera sesuai periode					
		2,2	*Pressure gauge* berfungsi, akurat, terpelihara dan ditera sesuai periode					
	3	Melakukan pemeliharaan sistem perpipaan dan valve						
		3,1	Sistem perpipaan terkendali dari korosi					
		3,2	Sistem valve terpelihara dan berfungsi					
	4	Melakukan pemeliharaan sistem regulator						
		4,1	Sistem regulator lengkap, berfungsi dan terpelihara					

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		Jumlah	Satuan	Sesuai	Tidak Sesuai	(%)
(1)	(2)	(3)	(4)	(5)	(6)	(7)
	5 Melakukan pemeliharaan sistem pengaman					
	5,1 *Filter* terpelihara dan berfungsi					
	5,2 *Flow/Pressure Control Valve* (F/PCV) terpelihara dan berfungsi					
	5,3 *Gas Detector* terpelihara dan berfungsi					
	6 Melakukan operasi dan pemeliharaan terhadap sistem Gas Engine Generator (GEG) dan Diesel Engine Generator (DEG)					
	6,1 GEG dan DEG beroperasi dan berfungsi sesuai requirement					
	6,2 Hasil Condition Monitoring and Fault Diagnosis (CMFD) berupa Vibration (Level), Oil Analysis, Thermography, Power Analysis (Generator), dll berada pada Acceptance Level					
	7 Melakukan pemeliharaan terhadap sistem UPS					
	7,1 UPS beroperasi dan berfungsi sesuai requirement					
	7,2 Hasil Condition Monitoring and Fault Diagnosis (CMFD) berupa Thermography, Sampling Method, dll berada pada Acceptance Level.					
14.1.H	Inspeksi dan Pemeliharaan Stasiun Gas Transmisi					
	1 Melakukan pemeliharaan sistem meter di stasiun gas					
	1,1 Metering berfungsi, memiliki tanda tera sah, stiker kalibrasi yang sah dan tersegel	10	unit	10		100,00%
	1,2 *Flow computer* berfungsi dan memiliki tanda tera sah	10	unit	10		100,00%
	1,3 *Transmitter* berfungsi, terpelihara dan tersegel	22	unit	22		100,00%
	1,4 *Temperature gauge* berfungsi, memiliki stiker kalibrasi yang sah	10	unit	10		100,00%
	1,5 *Pressure gauge* berfungsi, memiliki stiker kalibrasi yang sah	10	unit	10		100,00%
	2 Melakukan pemeliharaan alat ukur di stasiun gas					
	2,1 *Temperature gauge* berfungsi, memiliki stiker kalibrasi yang sah	14	unit	14		100,00%
	2,2 *Pressure gauge* berfungsi, memiliki stiker kalibrasi yang sah	58	unit	58		100,00%
	2,3 Sistem alat ukur (temperature dan tekanan) lengkap, berfungsi, terpelihara dan terkalibrasi					
	3 Melakukan pemeliharaan sistem perpipaan dan valve di stasiun gas					
	3,1 Sistem perpipaan terkendali dari korosi	100	%	100		100,00%
	3,2 Sistem valve terpelihara dan berfungsi	436	unit	436		100,00%
	3,3 Kondisi *corrosion coupon* termonitor dan tercatat	3	unit	3		100,00%
	3,4 Pressurize tank system terpelihara dan berfungsi	12	unit	12		100,00%
	3,5 Sistem Odorant terpelihara dan berfungsi	4	unit	4		100,00%
	4 Melakukan pemeliharaan *gas chromatograph* (GC)					
	4,1 GC terpelihara dan berfungsi	6	unit	6		100,00%
	5 Melakukan pemeliharaan *grounding* dan *lightning protection system*					
	5,1 Tersedianya data pengukuran grounding system (*grounding ring, grounding rod*, PEB)	1	Ls	1		100,00%
	5,2 Tersedianya data pengukuran internal proteksi (*arrester power*, *arrester data*, *arrester communication*)	1	Ls	1		100,00%
	5,3 Tersedianya data pengukuran eksternal proteksi (*finial*, *down conductor*, LEC)	1	Ls	1		100,00%
	6 Melakukan operasi dan pemeliharaan terhadap sistem *Diesel Engine Generator (DEG)*					
	6,1 DEG beroperasi dan berfungsi sesuai requirement	4	unit	4		100,00%
	6,2 Hasil *Condition Monitoring and Fault Diagnosis* (CMFD) berupa *Vibration (Level & Spectrum), Oil Analysis, Thermography, Power Analysis* (*Generator*), dll berada pada *Acceptance Level*					
	7 Melakukan operasi dan pemeliharaan terhadap sistem UPS					
	7,1 UPS beroperasi dan berfungsi sesuai requirement	6	unit	6		100,00%
	7,2 Hasil Condition Monitoring and Fault Diagnosis (CMFD) berupa Thermography, Sampling Method, dll berada pada Acceptance Level.	2	unit	2		100,00%
	8 Melakukan pemeliharaan sistem pengamanan di sistem perpipaan					
	8,1 *Gas Detector* terpelihara dan berfungsi	23	unit	23		100,00%
	8,2 *Filter* terpelihara dan berfungsi	9	unit	9		100,00%
14.1.I	Inspeksi dan Pemeliharaan Compressor Station					
	1 Melakukan operasi dan pemeliharaan terhadap sistem gas turbine					
	1,1 Gas turbine beroperasi dan berfungsi sesuai requirement					
	1,2 Hasil Condition Monitoring and Fault Diagnosis (CMFD) berupa Vibration (Level & Spectrum), Oil Analysis, Thermography, Pressure, dll berada pada Acceptance Level					
	2 Melakukan operasi dan pemeliharaan terhadap sistem compressor					
	2,1 Compressor beroperasi dan berfungsi sesuai requirement					
	2,2 Hasil Condition Monitoring and Fault Diagnosis (CMFD) berupa Vibration (Level & Spectrum), Oil Analysis, Thermography, Pressure, dll berada pada Acceptance Level					
14.1.J	Penyediaan dan Penggantian Suku Cadang					
	1 Melakukan penyediaan suku cadang untuk seluruh kebutuhan operasional					

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				Jumlah	Satuan	Sesuai	Tidak Sesuai	(%)
(1)			(2)	(3)	(4)	(5)	(6)	(7)
		1,1	Tersedianya suku cadang untuk kegiatan operasional sesuai dengan spesifikasi dan kebutuhannya	1	ls	1		100,00%
		1,2	Terlaksananya kegiatan penggantian suku cadang	1	ls	1		100,00%
14.1.K	Melakukan kalibrasi dan legalisasi alat ukur							
	1	Melakukan kalibrasi dan legalisasi meter						
		1,1	Seluruh meter terpasang memiliki masa kalibrasi dan legalisasi yang masih berlaku					
	2	Melakukan penggantian Meter						
		2,1	Terlaksananya penggantian untuk meter yang perlu diganti					
	3	Melakukan kalibrasi dan legalisasi pressure dan temperature gauge						
		3,1	Seluruh pressure dan temperature gauge terpasang memiliki masa kalibrasi dan legalisasi yang masih berlaku					
	4	Melakukan penggantian pressure dan temperature gauge						
		4,1	Terlaksananya penggantian untuk pressure dan temperature gauge yang perlu diganti	1	ls	1		100,00%
	5	Melakukan kalibrasi dan legalisasi Sistem Meter Stasiun Penerima (Offtake)						
		5,1	Seluruh sistem meter stasiun penerima (offtake) memiliki masa kalibrasi dan legalisasi yang masih berlaku	1	ls	1		100,00%
	6	Melakukan kalibrasi dan legalisasi master meter (sistem kalibrator)						
		6,1	Seluruh master meter (sistem kalibrator) memiliki masa kalibrasi dan legalisasi yang masih berlaku					
	7	Melakukan kalibrasi dan legalisasi EVC						
		7,1	Seluruh EVC terpasang memiliki masa kalibrasi yang masih berlaku					
	8	Melakukan penggantian EVC						
		8,1	Terlaksananya penggantian untuk EVC yang perlu diganti					
14.1.L	Update Data Historis Inspeksi dan Pemeliharaan Jaringan dan Fasilitas							
	1	Menyediakan database historical data hasil kegiatan inspeksi dan pemeliharaan jaringan dan fasilitas						
			Tersedianya database historical data hasil kegiatan inspeksi dan pemeliharaan jaringan dan fasilitas meliputi					
		1,1	Status jaringan dan dokumentasi kegiatan inspeksi dan pemeliharaan Jaringan Pipa Gas (kebocoran, jembatan, marker, patok)	1	ls	1		100,00%
		1,2	Status fasilitas dan dokumentasi kegiatan inspeksi dan pemeliharaan Sistem Proteksi Katodik (testbox, TR)	1	ls	1		100,00%
		1,3	Status fasilitas dan dokumentasi kegiatan inspeksi dan pemeliharaan Sistem Valve (bak valve, valve)	1	ls	1		100,00%
		1,4	Status fasilitas dan dokumentasi kegiatan inspeksi dan pemeliharaan Stasiun Gas MR/S Pelanggan (meter-kalibrasi)					
		1,5	Status fasilitas dan dokumentasi kegiatan inspeksi dan pemeliharaan Stasiun Gas MR/S Non Pelanggan (meter-kalibrasi)					
		1,6	Status fasilitas dan dokumentasi kegiatan inspeksi dan pemeliharaan Stasiun Gas MR/S Offtake & Bulk Costumer (meter-kalibrasi)	1	ls	1		100,00%
		1,7	Status fasilitas dan dokumentasi kegiatan inspeksi dan pemeliharaan Stasiun Pembagi					
		1,8	Status fasilitas dan dokumentasi kegiatan inspeksi dan pemeliharaan Stasiun Transmisi	1	ls	1		100,00%
		1,9	Status fasilitas dan dokumentasi kegiatan inspeksi dan pemeliharaan Compressor Station					
	2	Menyediakan data historis kegiatan integrity						
		2,1	Tersedianya database historis profil resiko secara tabular dan spasial					
	3	Melakukan update master data aset hasil penggantian atau modifikasi jaringan dan fasilitas						
		3,1	Tersedianya update data aset terkait pengantian suku cadang	1	ls	1		100,00%
		3,2	Tersedianya update data aset terkait akibat relokasi	1	ls	1		100,00%
		3,3	Tersedianya update data aset terkait tagging	1	ls	1		100,00%
								100,00%

Dibuat,	Diperiksa,	Diperiksa,	Disetujui,	Diketahui,
Rekayasa Teknik	Jr. Engineer Fasilitas	Engineer Jaringan	Kepala O&P	ART
Transmisi Area	Transmisi Area	Transmisi Area	Transmisi Area	Transmisi Area
Jawa Bagian Barat	Jawa Bagian Barat	Jawa Bagian Barat	Jawa Bagian Barat	Jawa Bagian Barat
Derry Fatrah Sudarjo	Purnawan Tirta Yuwana	Tauhid Safari	Dody Tusandy	Agung Kurniansyah

LAPORAN BULANAN PERFORMANCE INDEX (PI)
PEMELIHARAAN ASET PENUNJANG INFRASTRUKTUR

No : 001/MARIO.04/PI/PAPI/ATL/JANUARI/2019
Tanggal : 28 Januari 2019
Area/Wilayah/Departemen : Area Transmisi Lampung

No		Item Pekerjaan	Bobot	Target		Performance		PI
				Jumlah	Satuan	Sesuai	Tidak Sesuai	(%)
(1)		(2)	(3)	(4)	(5)	(6)	(7)	(8)
14.8.I.1		Pengelolaan Pengamanan						
	1	Tidak ada aset/barang/material hilang.	10%	100	%	100		10,00%
	2	Tertanganinya gangguan keamanan dan ketertiban terhadap aset dan pekerja maksimal 1 x 8 jam.	10%	100	%	100		10,00%
	3	Tersedianya Laporan Koordinasi dengan pihak kemanan terkait untuk menjaga keamanan aset PGN	2%	100	%	100		2,00%
14.8.I.2		Pengelolaan Kebersihan						
	1	Terlaksananya Pembersihan sisi Luar, sisi dalam bangunan/fasilitas sesuai dengan jadwal.	4%	100	%	100		4,00%
	2	Bangunan serta Fasilitasnya selalu ringkas, rapi, bersih dan terawat.	3%	100	%	100		3,00%
	3	Seluruh area Bangunan dan Fasilitas bersih, tidak ada sampah atau kotoran lain di ruangan/bangunan/shelter seluruh lokasi yang masuk dalam ruang lingkup kerjasama.	4%	100	%	100		4,00%
	4	Terkendalinya populasi vegetasi liar.	5%	100	%	100		5,00%
	5	Seluruh Area Bangunan/fasilitas terkendali dari Rodent / Hama.	3%	100	%	100		3,00%
	6	Seluruh area Bangunan dan Fasilitas bersih dari sarang, kotoran atau aktivitas binatang (anjing, kucing, ular, laba-laba, tawon, burung, dsb) di seluruh lokasi yang masuk dalam ruang lingkup kerjasama.	4%	100	%	100		4,00%
	7	Kondisi fisik toilet rapih, bersih dan bebas bau yang mengganggu.	3%	100	%	100		3,00%
	8	Tidak ada sampah Organik, anorganik yang disimpan > 3 hari di TPS serta sampah B3 diangkut sesuai dengan jadwal.	3%	100	%	100		3,00%
14.8.I.3		Pemeliharaan Bangunan / Fasilitas						
	1	Struktur Bangunan, Ruangan, *Shelter*, Halaman, pagar dsb terpelihara dengan baik.	5%	100	%	100		5,00%
	2	Terpeliharanya Fasilitas Pendukung (air conditioning, sistem kelistrikan, fire fighting & alarm (F&G System dan Fire Extinguisher), sistem tata suara dan pagging, sistem tata udara , lighting system, water supply and treatment, cctv, dsb, dan berfungsi dengan baik	5%	100	%	100		5,00%
	3	Terpeliharanya taman, kolam dan arboretum (jika ada).	2%	100	%	100		2,00%
	4	Tidak ada genangan air atau kondisi yang dapat berpotensi mengganggu kesehatan pekerja.	2%	100	%	100		2,00%
	5	Terpeliharanya & tersedianya data aset/HBB dan/ atau Inventaris.	4%	100	%	100		4,00%
	6	Terlaksananya Perbaikan Bangunan / Fasilitas atas kerusakan yang terjadi sampai dengan Rp. 2.000.000,- /lokasi/kejadian.	5%	100	%	100		5,00%
14.8.II.1		Proses digitalisasi terhadap arsip-arsip yang mempunyai nilai guna penting atau retensi yang panjang, sesuai ketentuan PGN.						
	1	Tersedianya data arsip digital	4%	100	%	100		4,00%
	2	Terupdatenya database arsip	2%	100	%	100		2,00%
14.8.II.2		Melaksanakan pengamanan terhadap arsip vital perusahaan yang disimpan.						
	1	Tidak ada arsip vital perusahaan yang hilang	6%	100	%	100		6,00%
14.8.II.3		Melakukan fumigasi rutin, Termite control, pest dan rodent control secara Periodik sesuai dengan kondisi tempat penyimpanan						
	1	Tidak ada arsip yang rusak	3%	100	%	100		3,00%
14.8.II.4		Melakukan kegiatan antar jemput arsip sesuai perintah BUI						
	1	Terdistribusinya arsip sesuai permintaan BUI	2%	100	%	100		2,00%
14.8.II.5		Pendataan usul musnah arsip yang telah habis masa retensinya dan arsip-arsip yang memiliki nilai guna statis						
	1	Tersedianya data usul musnah	1%	100	%	100		1,00%
	2	Tersedianya data arsip yang memililki nilai guna statis	1%	100	%	100		1,00%
14.8.II.6		Menerapkan sistem tata kelola arsip yang efektif dan efisien						
	1	Arsip tersimpan dengan rapi	2%	100	%	100		2,00%
	2	Arsip mampu telusur dengan baik.	3%	100	%	100		3,00%
14.8.II.7		Menyediakan sarana penunjang pelaksanaan kegiatan MARIO						
	1	Tersedianya sarana transportasi untuk koordinasi BUI dengan Penyedia Jasa	2%	100	%	100		2,00%
			100%					100,00%

Dibuat, Rekayasa Teknik Transmisi Area Lampung	Diperiksa, Jr. Engineer O&P Fasilitas Area Lampung	Diperiksa, Jr. Engineer O&P Jaringan Area Lampung	Disetujui, Pjs. Kepala Proyek Operasi Area Lampung	Diketahui, ART Transmisi Area Lampung
Riska Yulianti	Akhmad Afandi	Sanghiang Bikeu Hejang	Juvinus Sembiring	Eka Perkasa

LAPORAN BULANAN PERFORMANCE INDEX (PI)
PEMELIHARAAN ASET PENUNJANG INFRASTRUKTUR

No : 001/MARIO.04/PI/RUTIN/JANUARI/2019
Tanggal : 30 Januari 2019
Area : Transmisi Area Sumatera Selatan

No		Item Pekerjaan	Bobot	Target		Performance		PI
				Jumlah	Satuan	Sesuai	Tidak Sesuai	(%)
(1)		(2)	(3)	(4)	(5)	(6)	(7)	(8)
14.8.I.1		Pengelolaan Pengamanan						
	1	Tidak ada aset/barang/material hilang.	10%	100	%	100	0	10.00%
	2	Tertanganinya gangguan keamanan dan ketertiban terhadap aset dan pekerja maksimal 1 x 8 jam.	10%	100	%	100	0	10.00%
	3	Tersedianya Laporan Koordinasi dengan pihak kemanan terkait untuk menjaga keamanan aset PGN (Obvitnas).	2%	100	%	100	0	2.00%
14.8.I.2		Pengelolaan Kebersihan						
	1	Terlaksananya Pembersihan sisi Luar, sisi dalam bangunan/fasilitas sesuai dengan jadwal.	4%	100	%	100	0	4.00%
	2	Bangunan serta Fasilitasnya selalu ringkas, rapi, bersih dan terawat.	3%	100	%	100	0	3.00%
	3	Seluruh area Bangunan dan Fasilitas bersih, tidak ada sampah atau kotoran lain di ruangan/bangunan/shelter seluruh lokasi yang masuk dalam ruang lingkup kerjasama.	4%	100	%	100	0	4.00%
	4	Terkendalinya populasi vegetasi liar.	5%	100	%	100	0	5.00%
	5	Seluruh Area Bangunan/fasilitas terkendali dari Rodent / Hama.	3%	100	%	100	0	3.00%
	6	Seluruh area Bangunan dan Fasilitas bersih dari sarang, kotoran atau aktivitas binatang (anjing, kucing, ular, laba-laba, tawon, burung, dsb) di seluruh lokasi yang masuk dalam ruang lingkup kerjasama.	4%	100	%	100	0	4.00%
	7	Kondisi fisik toilet rapih, bersih dan bebas bau yang mengganggu.	3%	100	%	100	0	3.00%
	8	Tidak ada sampah Organik, anorganik yang disimpan > 3 hari di TPS serta sampah B3 diangkut sesuai dengan jadwal.	3%	100	%	100	0	3.00%
14.8.I.3		Pemeliharaan Bangunan / Fasilitas						
	1	Struktur Bangunan, Ruangan, *Shelter*, Halaman, pagar dsb terpelihara dengan baik.	5%	100	%	100	0	5.00%
	2	Terpeliharanya Fasilitas Pendukung (air conditioning, sistem kelistrikan, fire fighting & alarm (F&G System dan Fire Extinguisher), sistem tata suara dan pagging, sistem tata udara , lighting system, water supply and treatment, cctv, dsb, dan berfungsi dengan baik	5%	100	%	100	0	5.00%
	3	Terpeliharanya taman, kolam dan arboretum (jika ada).	2%	100	%	100	0	2.00%
	4	Tidak ada genangan air atau kondisi yang dapat berpotensi mengganggu kesehatan pekerja.	2%	100	%	100	0	2.00%
	5	Terpeliharanya & tersedianya data aset/HBB dan/ atau Inventaris.	4%	100	%	100	0	4.00%
	6	Terlaksananya Perbaikan Bangunan / Fasilitas atas kerusakan yang terjadi sampai dengan Rp. 2.000.000,- /lokasi/kejadian.	5%	100	%	100	0	5.00%
14.8.II.1		Proses digitalisasi terhadap arsip-arsip yang mempunyai nilai guna penting atau retensi yang panjang, sesuai ketentuan PGN.						
	1	Tersedianya data arsip digital	4%	100	%	100	0	4.00%
	2	Terupdatenya database arsip	2%	100	%	100	0	2.00%
14.8.II.2		Melaksanakan pengamanan terhadap arsip vital perusahaan yang disimpan.						
	1	Tidak ada arsip vital perusahaan yang hilang	6%	100	%	100	0	6.00%
14.8.II.3		Melakukan fumigasi rutin, Termite control, pest dan rodent control secara Periodik sesuai dengan kondisi tempat penyimpanan						
	1	Tidak ada arsip yang rusak	3%	100	%	100	0	3.00%
14.8.II.4		Melakukan kegiatan antar jemput arsip sesuai perintah BUI						
	1	Terdistribusinya arsip sesuai permintaan BUI	2%	100	%	100	0	2.00%

LAPORAN BULANAN PERFORMANCE INDEX (PI)
PEMELIHARAAN ASET PENUNJANG INFRASTRUKTUR

No : 001/MARIO.04/PI/RUTIN/JANUARI/2019
Tanggal : 30 Januari 2019
Area : Transmisi Area Sumatera Selatan

No		Item Pekerjaan	Bobot	Target		Performance		PI
				Jumlah	Satuan	Sesuai	Tidak Sesuai	(%)
(1)		(2)	(3)	(4)	(5)	(6)	(7)	(8)
14.8.II.5		Pendataan usul musnah arsip yang telah habis masa retensinya dan arsip-arsip yang memiliki nilai guna statis						
	1	Tersedianya data usul musnah	1%	100	%	100	0	1.00%
	2	Tersedianya data arsip yang memililki nilai guna statis	1%	100	%	100	0	1.00%
14.8.II.6		Menerapkan sistem tata kelola arsip yang efektif dan efisien						
	1	Arsip tersimpan dengan rapi	2%	100	%	100	0	2.00%
	2	Arsip mampu telusur dengan baik.	3%	100	%	100	0	3.00%
14.8.II.7		Menyediakan sarana penunjang pelaksanaan kegiatan MARIO						
	1	Tersedianya sarana transportasi untuk koordinasi BUI dengan Penyedia Jasa	2%	100	%	100	0	2.00%
			100%					100.00%

Diperiksa,	Diperiksa,	Diperiksa,	Disetujui,	Diketahui,
QC PGASSOL Jaringan	QC PGASSOL Fasilitas	QC PGASSOL Kompresor	PGASSOL	PGN
Area Transmisi Sumsel	Area Transmisi Sumsel	Area Transmisi Sumsel	Area Sumsel	ARM Zona Sumsel
Firman Budiman	Rizky W Budiman	Genius NJ	Bunyamin	Santoso Priyo Pratomo

LAPORAN BULANAN PERFORMANCE INDEX (PI)
PEMELIHARAAN ASET PENUNJANG INFRASTRUKTUR

No : 001/MARIO.04/PI/PAPI/ATJBB/JANUARI/2019
Tanggal : 31 Januari 2019
Area/Wilayah/Departemen : Area Transmisi Jawa Bagian Barat

No		Item Pekerjaan	Bobot	Target		Performance		PI
				Jumlah	Satuan	Sesuai	Tidak Sesuai	(%)
(1)		(2)	(3)	(4)	(5)	(6)	(7)	(8)
16.7.A		Pengelolaan Pengamanan						
	1	Tidak ada aset/barang/material hilang.	10%	100	%	100		10,00%
	2	Tertanganinya gangguan keamanan dan ketertiban terhadap aset dan pekerja maksimal 1 x 8 jam.	10%	100	%	100		10,00%
	3	Tersedianya Laporan Koordinasi dengan pihak kemanan terkait untuk menjaga keamanan aset PGN (Obvitnas).	2%	100	%	100		2,00%
16.7.B		Pengelolaan Kebersihan						
	1	Terlaksananya Pembersihan sisi Luar, sisi dalam bangunan/fasilitas sesuai dengan jadwal.	4%	100	%	100		4,00%
	2	Bangunan serta Fasilitasnya selalu ringkas, rapi, bersih dan terawat.	3%	100	%	100		3,00%
	3	Seluruh area Bangunan dan Fasilitas bersih, tidak ada sampah atau kotoran lain di ruangan/bangunan/shelter seluruh lokasi yang masuk dalam ruang lingkup kerjasama.	4%	100	%	100		4,00%
	4	Terkendalinya populasi vegetasi liar.	5%	100	%	100		5,00%
	5	Seluruh Area Bangunan/fasilitas terkendali dari Rodent / Hama.	3%	100	%	100		3,00%
	6	Seluruh area Bangunan dan Fasilitas bersih dari sarang, kotoran atau aktivitas binatang (anjing, kucing, ular, laba-laba, tawon, burung, dsb) di seluruh lokasi yang masuk dalam ruang lingkup kerjasama.	4%	100	%	100		4,00%
	7	Kondisi fisik toilet rapih, bersih dan bebas bau yang mengganggu.	3%	100	%	100		3,00%
	8	Tidak ada sampah Organik, anorganik yang disimpan > 3 hari di TPS serta sampah B3 diangkut sesuai dengan jadwal.	3%	100	%	100		3,00%
16.7.C		Pemeliharaan Bangunan / Fasilitas						
	1	Struktur Bangunan, Ruangan, *Shelter*, Halaman, pagar dsb terpelihara dengan baik.	5%	100	%	100		5,00%
	2	Terpeliharanya Fasilitas Pendukung (air conditioning, sistem kelistrikan, fire fighting & alarm (F&G System dan Fire Extinguisher), sistem tata suara dan pagging, sistem tata udara , lighting system, water supply and treatment, cctv, dsb, dan berfungsi dengan baik	5%	100	%	100		5,00%
	3	Terpeliharanya taman, kolam dan arboretum (jika ada).	2%	100	%	100		2,00%
	4	Tidak ada genangan air atau kondisi yang dapat berpotensi mengganggu kesehatan pekerja.	2%	100	%	100		2,00%
	5	Terpeliharanya & tersedianya data aset/HBB dan/ atau Inventaris.	4%	100	%	100		4,00%
	6	Terlaksananya Perbaikan Bangunan / Fasilitas atas kerusakan yang terjadi sampai dengan Rp. 2.000.000,- /lokasi/kejadian.	5%	100	%	100		5,00%
16.7.D		Proses digitalisasi terhadap arsip-arsip yang mempunyai nilai guna penting atau retensi yang panjang, sesuai ketentuan PGN.						
	1	Tersedianya data arsip digital	4%	100	%	100		4,00%
	2	Terupdatenya database arsip	2%	100	%	100		2,00%
16.7.E		Melaksanakan pengamanan terhadap arsip vital perusahaan yang disimpan.						
	1	Tidak ada arsip vital perusahaan yang hilang	6%	100	%	100		6,00%
16.7.F		Melakukan fumigasi rutin, Termite control, pest dan rodent control secara Periodik sesuai dengan kondisi tempat penyimpanan						
	1	Tidak ada arsip yang rusak	3%	100	%	100		3,00%
16.7.G		Melakukan kegiatan antar jemput arsip sesuai perintah BUI						
	1	Terdistribusinya arsip sesuai permintaan BUI	2%	100	%	100		2,00%
16.7.H		Pendataan usul musnah arsip yang telah habis masa retensinya dan arsip-arsip yang memiliki nilai guna statis						
	1	Tersedianya data usul musnah	1%	100	%	100		1,00%
	2	Tersedianya data arsip yang memiliki nilai guna statis	1%	100	%	100		1,00%
16.7.I		Menerapkan sistem tata kelola arsip yang efektif dan efisien						
	1	Arsip tersimpan dengan rapi	2%	100	%	100		2,00%
	2	Arsip mampu telusur dengan baik.	3%	100	%	100		3,00%
16.7.J		Menyediakan sarana penunjang pelaksanaan kegiatan MARIO						
	1	Tersedianya sarana transportasi untuk koordinasi BUI dengan Penyedia Jasa	2%	100	%	100		2,00%
			100%					100,00%

Dibuat,	Diperiksa,	Diperiksa,	Disetujui,	Diketahui,
Rekayasa Teknik	Jr. Engineer Fasilitas	Engineer Jaringan	Kepala O&P	ART
Transmisi Area	Transmisi Area	Transmisi Area	Transmisi Area	Transmisi Area
Jawa Bagian Barat	Jawa Bagian Barat	Jawa Bagian Barat	Jawa Bagian Barat	Jawa Bagian Barat
Derry Fatrah Sudarjo	Purnawan Tirta Yuwana	Tauhid Safari	Dody Tusandy	Agung Kurniansyah

LAPORAN BULANAN PERFORMANCE INDEX (PI)

No : 001/MARIO.04/PI/HSSE/TRANS/JANUARY/2019
Tanggal : 28 January 2019
Area/Wilayah/Departemen : Operasi dan Pemeliharaan Transmisi

No				Item Pekerjaan	Target	Performance		PI	Keterangan
						Sesuai	Tidak Sesuai	(%)	
(1)				(2)	(3)	(4)	(5)	(8)	(9)
17.1.8.A	Implementasi Sistem Manajemen K3 berdasarkan PP Nomor 50 Tahun 2012 dan OHSAS 18001:2007								
	1			Penyusunan identifikasi potensi bahaya, penilaian dan pengendalian risiko (IBPR) K3	Mei 2019 November 2019				Update 6 bulan 1 x (Holistsic)
		1		Tersedianya IBPR di seluruh wilayah	7 Offtake Stasiun	0%		100%	Update terakhir pada Nov 2018
		2		Melakukan pemantauan dan tindak lanjut atas IBAPR secara berkala	7 Offtake Stasiun	0%		100%	Update terakhir pada Nov 2018
	2			Implementasi sistem tanggap gawat darurat					
		1		Tersedianya dan terdokumentasi dengan baik Prosedur Tanggap Darurat	Tersedia	100%		100%	PO ERP (0-020-100-04)
		2		Pelaksanaan Emergency Response Exercise (ERE) untuk setiap area 1x/tahun	Agustus 2019	0%		100%	1x/Tahun (Terakhir pada April 2018)
		3		Pelaksanaan Major Emergency Response Exercise (MERE) 1x/tahun	Oktober 2019	0%		100%	1x/Tahun (Terakhir pada 10 Desember 2018 - Offshore)
	3			Pemeliharaan sarana dan prasarana K3					
		1		Seluruh sarana dan prasaran K3 terpelihara	7 Offtake Stasiun	100%		100%	Setiap bulan
		2		Seluruh sarana dan prasaran K3 memiliki sertifikat kelayakan dari instansi yang berwenang	Mei 2019 November 2019	100%		100%	
	4			Penyediaan dan pemeliharaan sarana dan prasarana penunjang K3 bagi pekerja					
		1		Tersedianya sarana dan prasarana penunjang K3	7 Offtake Stasiun	100%		100%	Setiap bulan
		2		Seluruh sarana dan prasarana penunjang K3 terpelihara	7 Offtake Stasiun	100%		100%	Setiap bulan
	5			Pemeriksaan lingkungan kerja (HRA) untuk aspek kesehatan terhadap pekerja					
		1		Terlaksananya HRA 1x/tahun	Oktober 2019	0%		100%	1x/Tahun (Terakhir pada Oktober 2018)
		2		Melaksanakan tindak lanjut terhadap hasil pelaksanaan HRA	Desember 2019	0%		100%	1x/Tahun (Terakhir pada Desember 2018)
	6			Memastikan bahwa kompetensi pekerja terkait dengan K3 sesuai dengan tugas dan tanggung jawabnya					
		1		Seluruh pekerja telah mendapatkan pelatihan/sertifikasi K3 sesuai dengan tugas dan tanggung jawabnya	November 2019	0%		100%	First Aid & Fire Fighting
		2		Melaksanakan refreshing pelatihan dasar keselamatan 1 kali/tahun	Agustus 2019	0%		100%	
	7			Penyusunan PO/IK/DAK HSSE					
		1		Tersedianya dan Terdokumentasi dengan baik DAK HSSE di seluruh wilayah	7 Offtake Stasiun	100%		100%	
	8			Laporan pencapaian K3					
		1		Membuat laporan pencapaian K3 1x/bulan	Setiap Bulan	100%		100%	Setiap Bulan
17.1.8.B	Implementasi Sistem Manajemen Lingkungan berdasarkan ISO 14001:2004 dan Pencapaian PROPER								
	1			Pengelolaan B3 dan limbah B3					
		1		Dilengkapi dengan symbol dan label	7 Offtake Stasiun	100%		100%	
		2		Tersedianya peralatan emergency equipment dan spill	7 Offtake Stasiun	100%		100%	
		3		Terlaksananya pembuatan laporan logbook limbah B3 dan neraca limbah B3	5 Offtake Stasiun	100%		100%	
		4		Terlaksananya pengangkutan limbah B3 yang bekerjasama dengan instansi yang berwenang secara berkala	5 Offtake Stasiun	100%		100%	
		5		TPS gudang limbah B3 terpelihara dengan baik	5 Offtake Stasiun	100%		100%	
		6		Tersedianya kelengkapan MSDS	7 Offtake Stasiun	100%		100%	
	2			Pengukuran lingkungan secara berkala sesuai dengan dokumen lingkungan					
		1		Terlaksananya sampling udara ambien secara berkala	Juni 2019 Desember 2019	0%		100%	Tiap Semester
		2		Terlaksananya sampling kebisingan secara berkala	Juni 2019 Desember 2019	0%		100%	Tiap Semester
		3		Terlaksananya sampling emisi cerobong secara berkala	Maret 2019, Juni 2019 September 2019, Desember 2019	0%		100%	TriWulan sekali
		4		Terlaksananya sampling air limbah untuk stasiun Pagardewa	Maret 2019, Juni 2019 September 2019, Desember 2019	0%		100%	TriWulan sekali
		5		Terlaksananya sampling emisi kendaraan operasional 1 x/tahun	Desember 2019	0%		100%	
	3			Pengelolaan lingkungan secara berkala					
		1		Terlaksananya pencatatan konsumsi air bersih 1x/bulan	7 Offtake Stasiun	100%		100%	Holistic
		2		Terlaksananya pencatatan timbulan sampah (organik, non organik, kertas, B3) 1x/bulan	7 Offtake Stasiun	100%		100%	Holistic
		3		Terlaksananya pencatatan konsumsi energy 1x/bulan	7 Offtake Stasiun	100%		100%	Holistic
	4			Penyusunan IADL dan baseline lingkungan serta Monitoring pencapaian TSP					
		1		Tersedianya IADL di seluruh wilayah	7 Offtake Stasiun	0%		100%	Update Terakhir November 2018 (Holistic)
		2		Melakukan pemantauan dan tindak lanjut atas IADL secara berkala	7 Offtake Stasiun	0%		100%	Update Terakhir November 2018 (Holistic)
		3		Terlaksanya monitoring terhadap pencapaian TSP secara berkala	7 Offtake Stasiun	0%		100%	Update Terakhir November 2018 (Holistic)
	5			Implementasi laporan lingkungan secara berkala					
		1		Penyampaian Laporan UKL-UPL dan AMDAL semester I dan II tahun 2018	Juli 2019, Januari 2020	50%		100%	Per Semester
	6			Pengelolaan ijin-ijin lingkungan					
		1		Terlaksananya perpanjangan atau registrasi ulang terkait semua ijin lingkungan	TPS LBM	100%		100%	November
	7			Implementasi PROPER					
		1		Peringkat biru untuk Stasiun Pagardewa	Desember 2018	100%		100%	

LAPORAN BULANAN PERFORMANCE INDEX (PI)

No : 001/MARIO.04/PI/HSSE/TRANS/JANUARY/2019
Tanggal : 28 January 2019
Area/Wilayah/Departemen : Operasi dan Pemeliharaan Transmisi

No			Item Pekerjaan	Target	Performance		PI	Keterangan
					Sesuai	Tidak Sesuai	(%)	
(1)			(2)	(3)	(4)	(5)	(8)	(9)
17.1.8.C	**Implementasi Sistem Manajemen Pengamanan berdasarkan Peraturan KAPOLRI Nomor 24 tahun 2007**							
	1		Melakukan kerjasama operasional dengan Instansi terkait untuk kegiatan pengaman Obyek Vital Nasional					
		1	Terlaksanya kerjasama operasional dengan Instansi terkait untuk kegiatan pengaman Obyek Vital Nasional		100%		100%	
		2	Seluruh aset jaringan pipa dan fasilitasnya di Distribusi dan Transmisi dalam kondisi aman		100%		100%	
		3	Melakukan kajian risiko pengamanan 1x/tahun	7 Offtake Stasiun	0%		100%	Mei 2018 November 2018
	2		Memastikan bahwa kompetensi tenaga Pengamanan sesuai dengan tugas dan tanggung jawabnya					
		1	Seluruh tenaga pengamanan telah mendapatkan pelatihan/sertifikasi yang sesuai dengan tugas dan tanggung jawabnya	Gada Pratama	100%		100%	Update terakhir November 2018
	3		Laporan pengamanan					
		1	Membuat laporan pengamanan 1x/bulan	3 Wilayah	100%		100%	Setiap Bulan

Diperiksa,	Disetujui,	Diketahui,
PT PGAS Solution *QHSSE Representative* *Operation and Maintenance Transmission*	PT PGAS Solution *Project Manager MARIO*	PGN *Divisi Head* *Gas Transmission Management*
Mardianyah	**Dudu Yusandy**	**A.A.P. Bagus Putra T.**

LAPORAN BULANAN PERFORMANCE INDEX (PI)
PEKERJAAN PENGAWASAN PIHAK KETIGA

No : 001/MARIO.04/PI/PPK/ATL/JANUARI/2019
Tanggal : 28 Januari 2019
Area/Wilayah/Departemen : Area Transmisi Lampung

No		Item Pekerjaan	Target		Performance		PI
			Jumlah	Satuan	Sesuai	Tidak Sesuai	(%)
(1)		(2)	(3)	(4)	(5)	(6)	(7)
16.4.1		Koordinasi Dengan Pihak Ketiga					
	1	Tersedianya informasi dan data pihak ketiga yang melaksanakan pekerjaan di aset infrastruktur PGN	1	ls	1		100,00%
16.4.2		Pengawasan Pekerjaan Pihak Ketiga					
	1	Tersedianya informasi dan data proses pekerjaan yang dilakukan oleh pihak ketiga	1	ls	1		100,00%
	2	Tersedianya dokumentasi proses kegiatan yang dilakukan oleh pihak ketiga	1	ls	1		100,00%
							100,00%

Dibuat,	Diperiksa,	Diperiksa,	Disetujui,	Diketahui,
Rekayasa Teknik	Jr. Engineer O&P Fasilitas	Jr. Engineer O&P Jaringan	Pjs. Kepala Proyek Operasi	ART
Transmisi Area Lampung	Area Lampung	Area Lampung	Area Lampung	Transmisi Area Lampung
Riska Yulianti	Akhmad Afandi	Sanghiang Bikeu Hejang	Juvinus Sembiring	Eka Perkasa

LAPORAN BULANAN PERFORMANCE INDEX (PI)
PEKERJAAN PENGAWASAN PIHAK KETIGA

No : 001/MARIO.04/PI/RUTIN/JANUARI/2019
Tanggal : 30 Januari 2019
Area : Transmisi Area Sumatera Selatan

No		Item Pekerjaan	Target		Performance		PI
			Jumlah	Satuan	Sesuai	Tidak Sesuai	(%)
(1)		(2)	(3)	(4)	(5)	(6)	(7)
16.4.1		Koordinasi Dengan Pihak Ketiga					
	1	Tersedianya informasi dan data pihak ketiga yang melaksanakan pekerjaan di aset infrastruktur PGN	7	Kegiatan	7	0	100.00%
16.4.2		Pengawasan Pekerjaan Pihak Ketiga					
	1	Tersedianya informasi dan data proses pekerjaan yang dilakukan oleh pihak ketiga	7	Laporan	7	0	100.00%
	2	Tersedianya dokumentasi proses kegiatan yang dilakukan oleh pihak ketiga	7	Laporan	7	0	100.00%
							100.00%

Diperiksa, QC PGASSOL Jaringan Area Transmisi Sumsel	Diperiksa, QC PGASSOL Fasilitas Area Transmisi Sumsel	Diperiksa, QC PGASSOL Kompresor Area Transmisi Sumsel	Disetujui, PGASSOL Area Sumsel	Diketahui, PGN ARM Zona Sumsel
Firman Budiman	Rizky W Budiman	Genius NJ	Bunyamin	Santoso Priyo Pratomo

LAPORAN BULANAN PERFORMANCE INDEX (PI)

No : 001/MARIO.04/PI/PPK/ATJBB/JANUARI/2019
Tanggal : 31 Januari 2019
Area/Wilayah/Departemen : Area Transmisi Jawa Bagian Barat

No		Item Pekerjaan	Target		Performance		PI
			Jumlah	Satuan	Sesuai	Tidak Sesuai	(%)
(1)		(2)	(3)	(4)	(5)	(6)	(7)
16.4.1		Koordinasi Dengan Pihak Ketiga					
	1	Tersedianya informasi dan data pihak ketiga yang melaksanakan pekerjaan di aset infrastruktur PGN	1	ls	1		100,00%
16.4.2		Pengawasan Pekerjaan Pihak Ketiga					
	1	Tersedianya informasi dan data proses pekerjaan yang dilakukan oleh pihak ketiga	1	ls	1		100,00%
	2	Tersedianya dokumentasi proses kegiatan yang dilakukan oleh pihak ketiga	1	ls	1		100,00%
							100,00%

Dibuat,	Diperiksa,	Diperiksa,	Disetujui,	Diketahui,
Rekayasa Teknik	Jr. Engineer Fasilitas	Engineer Jaringan	Kepala O&P	ART
Transmisi Area	Transmisi Area	Transmisi Area	Transmisi Area	Transmisi Area
Jawa Bagian Barat	Jawa Bagian Barat	Jawa Bagian Barat	Jawa Bagian Barat	Jawa Bagian Barat
Derry Fatrah Sudarjo	Purnawan Tirta Yuwana	Tauhid Safari	Dody Tusandy	Agung Kurniansyah

LAPORAN BULANAN PERFORMANCE INDEX (PI)
PEKERJAAN PENANGANAN GANGGUAN

No : 001/MARIO.04/PI/TPG/ATL/JANUARI/2019
Tanggal : 28 Januari 2019
Area/Wilayah/Departemen : Area Transmisi Lampung

No		Item Pekerjaan	Target		Performance		PI
			Jumlah	Satuan	Sesuai	Tidak Sesuai	(%)
(1)		(2)	(3)	(4)	(5)	(6)	(7)
14.5.II.1		Penanganan Gangguan terkait Keluhan Pelanggan					
	1	Tersedianya informasi progress hasil penanganan keluhan pelanggan kepada Penerima Layanan dalam bentuk komunikasi dengan media telepon selambat-lambatnya 1x6 jam					
	2	Tersedianya laporan penanganan gangguan terkait keluhan pelanggan					
14.5.II.2		Penanganan Gangguan Akibat Event/Failure					
	1	Tersedianya informasi gangguan kepada penerima layanan selambat-lambatnya 1 jam setelah diverifikaasi (on site) dan notifikasi tertulis selambat-lambatnya pukul 09.00 waktu setempat pada hari berikutnya	12	unit	12		100,00%
	2	Tersedianya Dokumentasi/ Informasi awal tentang gangguan pihak ketiga pada fitur Red-Spot Aplikasi Digio. Dapat diakses melalui Digio-Mobile maupun Digio-Web	12	unit	12		100,00%
	3	Tersedianya informasi rencana dan schedule penanganan gangguan penyaluran gas selambat-lambatnya 3 jam setelah kejadian terverifikasi (untuk jaringan pipa service/PE)	12	unit	12		100,00%
	4	Tersedianya informasi rencana dan schedule penanganan gangguan penyaluran gas selambat-lambatnya 3x24 jam setelah kejadian terverifikasi (untuk jaringan non pipa service/PE)	12	unit	12		100,00%
	5	Tersedianya informasi progress pelaksanaan pekerjaan secara periodik	12	unit	12		100,00%
	6	Tersedianya laporan hasil pelaksanaan pekerjaan penanganan gangguan akibat event/failure	12	unit	12		100,00%
							100,00%

Dibuat,	Diperiksa,	Diperiksa,	Disetujui,	Diketahui,
Rekayasa Teknik	Jr. Engineer O&P Fasilitas	Jr. Engineer O&P Jaringan	Pjs. Kepala Proyek Operasi	ART
Transmisi Area Lampung	Area Lampung	Area Lampung	Area Lampung	Transmisi Area Lampung
Riska Yulianti	Akhmad Afandi	Sanghiang Bikeu Hejang	Juvinus Sembiring	Eka Perkasa

LAPORAN BULANAN PERFORMANCE INDEX (PI)
PEKERJAAN PENANGANAN GANGGUAN

No : 001/MARIO.04/PI/RUTIN/JANUARI/2019
Tanggal : 30 Januari 2019
Area : Transmisi Area Sumatera Selatan

No		Item Pekerjaan	Target		Performance		PI
			Jumlah	Satuan	Sesuai	Tidak Sesuai	(%)
(1)		(2)	(3)	(4)	(5)	(6)	(7)
14.5.II.1		Penanganan Gangguan terkait Keluhan Pelanggan					
	1	Tersedianya informasi progress hasil penanganan keluhan pelanggan kepada Penerima Layanan dalam bentuk komunikasi dengan media telepon selambat-lambatnya 1x6 jam	0	Laporan	0	0	100.00%
	2	Tersedianya laporan penanganan gangguan terkait keluhan pelanggan	0	Laporan	0	0	100.00%
14.5.II.2		Penanganan Gangguan Akibat Event/Failure					
	1	Tersedianya informasi gangguan kepada penerima layanan selambat-lambatnya 1 jam setelah diverifikaasi (on site) dan notifikasi tertulis selambat-lambatnya pukul 09.00 waktu setempat pada hari berikutnya	0	Laporan	0	0	100.00%
	2	Tersedianya Dokumentasi/ Informasi awal tentang gangguan pihak ketiga pada fitur Red-Spot Aplikasi Digio. Dapat diakses melalui Digio-Mobile maupun Digio-Web	0	Laporan	0	0	100.00%
	3	Tersedianya informasi rencana dan schedule penanganan gangguan penyaluran gas selambat-lambatnya 3 jam setelah kejadian terverifikasi (untuk jaringan pipa service/PE)	0	Laporan	0	0	100.00%
	4	Tersedianya informasi rencana dan schedule penanganan gangguan penyaluran gas selambat-lambatnya 3x24 jam setelah kejadian terverifikasi (untuk jaringan non pipa service/PE)	0	Laporan	0	0	100.00%
	5	Tersedianya informasi progress pelaksanaan pekerjaan secara periodik	0	Laporan	0	0	100.00%
	6	Tersedianya laporan hasil pelaksanaan pekerjaan penanganan gangguan akibat event/failure	0	Laporan	0	0	100.00%
							100.00%

Diperiksa, QC PGASSOL Jaringan Area Transmisi Sumsel	Diperiksa, QC PGASSOL Fasilitas Area Transmisi Sumsel	Diperiksa, QC PGASSOL Kompresor Area Transmisi Sumsel	Disetujui, PGASSOL Area Sumsel	Diketahui, PGN ARM Zona Sumsel
Firman Budiman	Rizky W Budiman	Genius NJ	Bunyamin	Santoso Priyo Pratomo

LAPORAN BULANAN PERFORMANCE INDEX (PI)
PEKERJAAN PENANGANAN GANGGUAN

No : 001/MARIO.04/PI/TPG/ATJBB/JANUARI/2019
Tanggal : 31 Januari 2019
Area/Wilayah/Departemen : Area Transmisi Jawa Bagian Barat

No		Item Pekerjaan	Target		Performance		PI
			Jumlah	Satuan	Sesuai	Tidak Sesuai	(%)
(1)		(2)	(3)	(4)	(5)	(6)	(7)
14.5.II.1		Penanganan Gangguan terkait Keluhan Pelanggan					
	1	Tersedianya informasi progress hasil penanganan keluhan pelanggan kepada Penerima Layanan dalam bentuk komunikasi dengan media telepon selambat-lambatnya 1x6 jam					
	2	Tersedianya laporan penanganan gangguan terkait keluhan pelanggan					
14.5.II.2		Penanganan Gangguan Akibat Event/Failure					
	1	Tersedianya informasi gangguan kepada penerima layanan selambat-lambatnya 1 jam setelah diverifikaasi (on site) dan notifikasi tertulis selambat-lambatnya pukul 09.00 waktu setempat pada hari berikutnya	2	ea	2		100,00%
	2	Tersedianya Dokumentasi/ Informasi awal tentang gangguan pihak ketiga pada fitur Red-Spot Aplikasi Digio. Dapat diakses melalui Digio-Mobile maupun Digio-Web	2	ea	2		100,00%
	3	Tersedianya informasi rencana dan schedule penanganan gangguan penyaluran gas selambat-lambatnya 3 jam setelah kejadian terverifikasi (untuk jaringan pipa service/PE)	2	ea	2		100,00%
	4	Tersedianya informasi rencana dan schedule penanganan gangguan penyaluran gas selambat-lambatnya 3x24 jam setelah kejadian terverifikasi (untuk jaringan non pipa service/PE)	2	ea	2		100,00%
	5	Tersedianya informasi progress pelaksanaan pekerjaan secara periodik	2	ea	2		100,00%
	6	Tersedianya laporan hasil pelaksanaan pekerjaan penanganan gangguan akibat event/failure	2	ea	2		100,00%
							100,00%

Dibuat,	Diperiksa,	Diperiksa,	Disetujui,	Diketahui,
Rekayasa Teknik	Jr. Engineer Fasilitas	Engineer Jaringan	Kepala O&P	ART
Transmisi Area	Transmisi Area	Transmisi Area	Transmisi Area	Transmisi Area
Jawa Bagian Barat	Jawa Bagian Barat	Jawa Bagian Barat	Jawa Bagian Barat	Jawa Bagian Barat
Derry Fatrah Sudarjo	Purnawan Tirta Yuwana	Tauhid Safari	Dody Tusandy	Agung Kurniansyah

LAMPIRAN 17.2.T
RELIABILITY, AVAILABILITY, MAINTAINABILITY, CRITICALITY & FAILURE RECORDING
GTM

V 1.3

LAMPIRAN 17.2.T.1 DAFTAR ISI

LAMPIRAN NOMOR	DAFTAR ISI
17.2.T	Cover
17.2.T.1	Daftar Isi
17.2.T.2	Formula, Target, & Achievement Availability & Reliability
17.2.T.3	Availability TSJ (Av)
17.2.T.4	Reliability Critical TSJ (Re Cr)
17.2.T.5	Reliability NCr TSJ Stasiun Grissik & Jaringan (Re NCr Grsk)
17.2.T.6	Reliability NCr TSJ Stasiun Talang Duku & Jaringan (Re NCr Tld)
17.2.T.7	Reliability NCr TSJ Stasiun SPG Pagardewa & Jaringan (Re NCr Spg Pgd)
17.2.T.8	Reliability NCr TSJ Stasiun Kompresor Pagardewa & Jaringan (Re NCr Comp Pgd)
17.2.T.9	Reliability NCr TSJ Stasiun Metering Pagardewa & Jaringan (Re NCr Mtr Pgd)
17.2.T.10	Reliability NCr TSJ Stasiun Terbanggi Besar & Jaringan (Re NCr Tbb)
17.2.T.11	Reliability NCr TSJ Stasiun Labuhan Maringgai & Jaringan (Re NCr Lbm)
17.2.T.12	Reliability NCr TSJ Stasiun Muara Bekasi & Jaringan (Re NCr Mbk)
17.2.T.13	Reliability NCr TSJ Stasiun Bojonegara & Jaringan (Re NCr Bjn)
17.2.T.14	Form Failure Recording
17.2.T.15	List SCE (Safety Criticality Element) TSJ
17.2.T.16	SCE Boundary, Failure Mode & Failure Mechanism
17.2.T.17	List BCE (Business Critical Element) TSJ - Sumatera Selatan
17.2.T.18	List BCE (Business Critical Element) TSJ - Lampung
17.2.T.19	List BCE (Business Critical Element) TSJ - Jawa Bagian Barat
17.2.T.20	BCE Boundary, Failure Mode & Failure Mechanism

LAMPIRAN 17.2.T.2 FORMULA, TARGET, & ACHIEVEMENT AVAILABILITY DAN RELIABILITY

FORMULA

$$Asset\ Reliability\ (t) = e^{-\lambda t} = e^{-t/MTBF}$$

$$Availability = \frac{Available\ Time}{Maximum\ Available\ Time}$$

$$MTBF = \frac{Number\ of\ asset\ x\ Total\ Operating\ Time}{Number\ of\ Failures\ Event}$$

TARGET

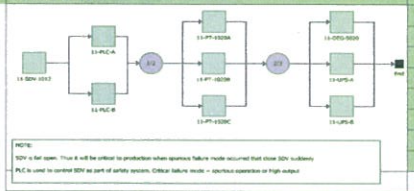
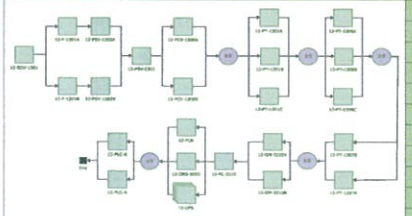
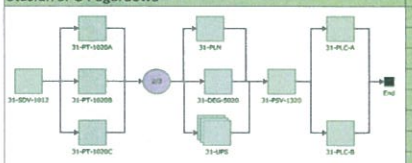
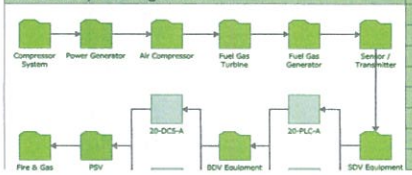
Target Availability		
	System	98%
Target Reliability		
	Cr Equipment	90%
	Non Cr Equipment	65%

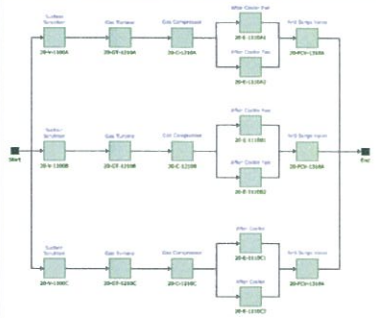
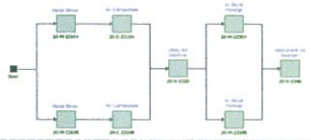
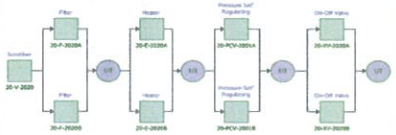
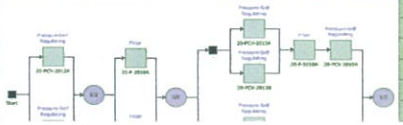
PENCAPAIAN			Area - Wilayah	Total		
GTM	**Availability**	Sumatera Selatan	100.00%	100.00%		
		Lampung	100.00%			
		Jawa Bagian Barat	100.00%			
		Area - Wilayah	Critical	Cr	Non Critical	Total NCr
	Reliability	Sumatera Selatan	94.20%	84.03%	96.08%	95.46%
		Lampung	92.75%		99.42%	
		Jawa Bagian Barat	96.17%		99.93%	

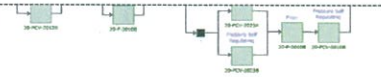
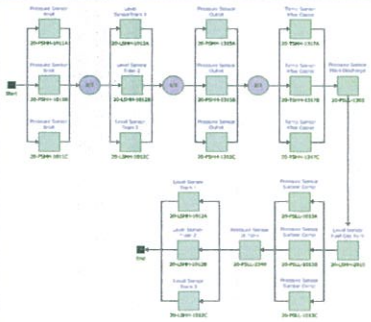
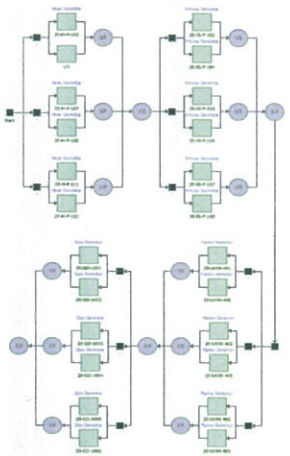
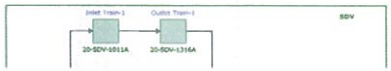
LAMPIRAN 17.2.T.3 AVAILABILITY - TSJ

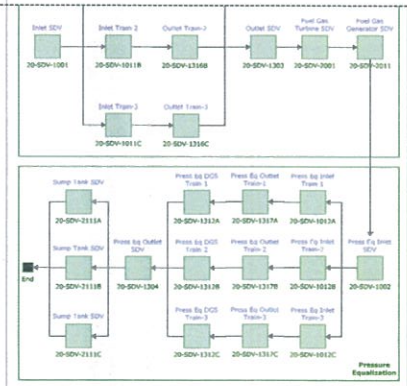
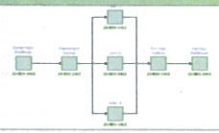
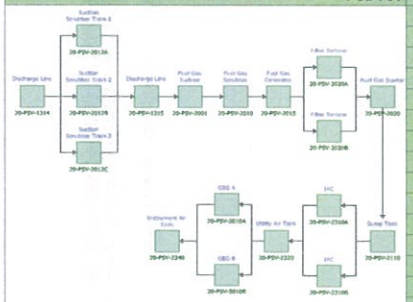
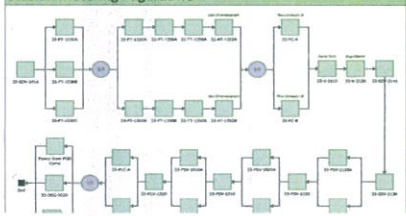
Wilayah Operasi	System / Subsystem			Operating (Mission) Time	Total Unplanned Downtime	Availability Sub Asset	Availability Asset	Availability System Asset
				(Hours)	(Hours)	%	%	%
Sumatera Selatan	Stasiun Grissik			600	0	100.00%	100.00%	100.00%
	Stasiun Talangduku			600	0	100.00%		
	Stasiun SPG Pagardewa			600	0	100.00%		
	Stasiun Kompresor Pagardewa			600	0	100.00%		
	Stasiun Metering Pagardewa			600	0	100.00%		
	Pipelines Area Sumatera Selatan	Section 1 : SSWJ Phase 2 (GRS - PGD)	Sta. GRS (KP 196) - KP 98	600	0	100.00%		
		Section 1 : SSWJ Phase 2 (GRS - PGD)	KP 121 - Sta. TLD	600	0	100.00%		
		Section 2 : SSWJ Phase 2 (GRS - PGD)	KP 98 - Sta. PGD (KP 0)	600	0	100.00%		
		Section 2 : SSWJ Phase 1 (SPG - PGD)	SPG PGD (KP 4) - Sta. PGD (KP 0)	600	0	100.00%		
		Section 3 : SSWJ Phase 2 (PGD - LBM)	Sta. PGD (KP 0) - KP 60+500	600	0	100.00%		
		Section 3 : SSWJ Phase 1 (PGD - LBM)	Sta. PGD (KP 0) - KP 60+500	600	0	100.00%		
Lampung	Stasiun Terbanggi Besar			600	0	100.00%	100.00%	
	Stasiun Labuhan Maringgai			600	0	100.00%		
	Pipelines Area Lampung	Section 4 : SSWJ Phase 2 (PGD - LBM)	KP 60+500 - KP 109	600	0	100.00%		
		Section 4 : SSWJ Phase 1 (PGD - LBM)	KP 60+500 - KP 109	600	0	100.00%		
		Section 5 : SSWJ Phase 2 (PGD - LBM)	KP 109 - Sta. TBB (KP 171)	600	0	100.00%		
		Section 5 : SSWJ Phase 1 (PGD - LBM)	KP 109 - Sta. TBB (KP 171)	600	0	100.00%		
		Section 5 : SSWJ Phase 2 (PGD - LBM)	Sta. TBB (KP 171) - KP 182	600	0	100.00%		
		Section 5 : SSWJ Phase 1 (PGD - LBM)	Sta. TBB (KP 171) - KP 182	600	0	100.00%		
		Section 6 : SSWJ Phase 2 (PGD - LBM)	KP 182 - Sta. LBM (KP 272)	600	0	100.00%		
		Section 6 : SSWJ Phase 1 (PGD - LBM)	KP 182 - Sta. LBM (KP 272)	600	0	100.00%		
		Section 6 : SSWJ Phase 2 (PGD - LBM)	Sta. LBM (KP 272) - KP 5	600	0	100.00%		
		Section 6 : SSWJ Phase 1 (PGD - LBM)	Sta. LBM (KP 272) - KP 5	600	0	100.00%		
Jawa Bagian Barat	Stasiun Muara Bekasi			600	0	100.00%	100.00%	
	Stasiun Bojonegara			600	0	100.00%		
	Pipelines Area JBB	Offshore MBK : SSWJ Phase 2 (LBM - MBK)	KP 5 - Sta. MBK (KP 163)	600	0	100.00%		
		Offshore BJN : SSWJ Phase 1 (LBM - BJN)	KP 5 - Sta. BJN (KP 101)	600	0	100.00%		

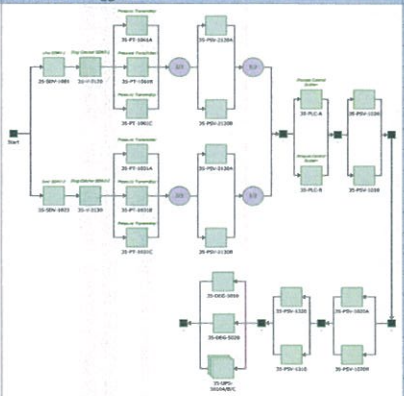
LAMPIRAN 17.2.T.4 RELIABILITY CRITICAL EQUIPMENT - TSJ

Wilayah Operasi	System / Subsystem		Tag Number	Classification	Number of Cummulative Failures	Aggregated Time in Service	Operating (Mission) Time	Failure Rate	Reliability Inherent	Reliability System	Reliability Wilayah / Area	Reliability Critical Total TSJ
				(SCE - BCE)	(N - Failures)	(Hours)	(Hours)	(Failure/Hours)	%	%	%	%
Sumatera Selatan	Stasiun Grissik	SDV	11-SDV-1012	SCE	0	98832	600	0	100.00%	100.00%	94.20%	84.03%
		PLC A	11-PLC-A	BCE	0	98832	600	0	100.00%			
		PLC B	11-PLC-B	BCE	0	98832	600	0	100.00%			
		Pressure Transmitter A	11-PT-1020 A	SCE	0	31968	600	0	100.00%			
		Pressure Transmitter B	11-PT-1020 B	SCE	0	31968	600	0	100.00%			
		Pressure Transmitter C	11-PT-1020 C	SCE	0	98832	600	0	100.00%			
		DEG	11-DEG-5020	BCE	4	90368	600	4.42635E-05	97.38%			
		UPS A	11-UPS-A	BCE	1	97548	600	1.02514E-05	99.39%			
		UPS B	11-UPS-B	BCE	1	96908	600	1.03191E-05	99.38%			
	Stasiun Talangduku	SDV	12-SDV-1301	SCE	1	64176	600	1.55821E-05	99.07%	98.15%		
		Filter A	12-F-1301A	BCE	0	36456	600	0	100.00%			
		Filter B	12-F-1301B	BCE	0	36456	600	0	100.00%			
		PSV A	12-PSV-1302A	SCE	0	64176	600	0	100.00%			
		PSV B	12-PSV-1302B	SCE	0	64176	600	0	100.00%			
		PSV	12-PSV-1301	SCE	0	64176	600	0	100.00%			
		PCV A	12-PCV-1308A	BCE	1	37176	600	2.68991E-05	98.40%			
		PCV B	12-PCV-1308B	BCE	0	45264	600	0	100.00%			
		Pressure Transmitter A	12-PT-1301A	BCE	0	64176	600	0	100.00%			
		Pressure Transmitter B	12-PT-1301B	BCE	0	2400	600	0	100.00%			
		Pressure Transmitter C	12-PT-1301C	BCE	0	64176	600	0	100.00%			
		Pressure Transmitter A	12-PT-1308A	BCE	0	2400	600	0	100.00%			
		Pressure Transmitter B	12-PT-1308B	BCE	0	8159	600	0	100.00%			
		Pressure Transmitter C	12-PT-1308C	BCE	0	64176	600	0	100.00%			
		Pressure Transmitter A	12-PT-1307A	BCE	0	64176	600	0	100.00%			
		Pressure Transmitter B	12-PT-1307B	BCE	0	64176	600	0	100.00%			
		Meter A	12-GM-3210A	BCE	0	35832	600	0	100.00%			
		Meter B	12-GM-3210B	BCE	0	35856	600	0	100.00%			
		Flowcom	12-FC-3210	BCE	1	64176	600	1.55821E-05	99.07%			
		DEG	12-DEG-5050	BCE	0	28128	600	0	100.00%			
		UPS A	12-UPS-5050A	BCE	1	45720	600	2.18723E-05	98.70%			
		UPS B	12-UPS-5050B	BCE	2	42768	600	4.67639E-05	97.23%			
		PLC A	12-PLC-A	BCE	1	92568	600	1.08029E-05	99.35%			
		PLC B	12-PLC-B	BCE	0	92568	600	0	100.00%			
	Stasiun SPG Pagardewa	SDV	31-SDV-1012	SCE	0	99240	600	0	100.00%	99.96%		
		Pressure Transmitter A	31-PT-1020A	SCE	0	99240	600	0	100.00%			
		Pressure Transmitter B	31-PT-1020B	SCE	0	99240	600	0	100.00%			
		Pressure Transmitter C	31-PT-1020C	SCE	0	99240	600	0	100.00%			
		DEG	31-DEG-5020	BCE	3	99240	600	3.02297E-05	98.20%			
		UPS	31-UPS-5050A	BCE	2	99240	600	2.01532E-05	98.80%			
		UPS	31-UPS-5050B	BCE	2	99240	600	2.01532E-05	98.80%			
		PSV	31-PSV-1320	SCE	0	95568	600	0	100.00%			
		PLC A	31-PLC-A	BCE	3	95568	600	3.13913E-05	98.13%			
		PLC B	31-PLC-B	BCE	3	95568	600	3.13913E-05	98.13%			
	Stasiun Kompresor Pagardewa	PGD Compressor System	-	BCE					100.00%	96.74%		
		PGD Power Generator	-	BCE					100.00%			
		PGD Air Compressor	-	BCE					98.05%			
		PGD Fuel Gas Turbine	-	BCE					100.00%			
		PGD Fuel Gas Generator	-	BCE					100.00%			
		PGD Sensor	-	BCE					100.00%			
		PGD SDV	-	SCE					98.71%			
		PLC A	20-PLC-A	BCE	1	92568	600	1.08029E-05	99.35%			
		PLC B	20-PLC-B	BCE	0	92568	600	0	100.00%			

Wilayah Operasi	System / Subsystem		Tag Number	Classification	Number of Cummulative Failures	Aggregated Time in Service	Operating (Mission) Time	Failure Rate	Reliability Inherent	Reliability System	Reliability Wilayah / Area	Reliability Critical Total TSJ
				(SCE - BCE)	(N - Failures)	(Hours)	(Hours)	(Failure/Hours)	%	%	%	%
		PGD BDV	-	SCE					100.00%			
		DCS A	20-DCS-A	BCE	3	92568	600	3.24086E-05	98.07%			
		DCS B	20-DCS-B	BCE	4	92568	600	4.32115E-05	97.44%			
		PGD PSV	-	SCE					100.00%			
		PGD FNG	-	SCE					100.00%			
	PGD Compressor System											
	PGD GTCP	Suction Scrubber A	20-V-1100A	BCE	0	48064	574	0	100.00%	100.00%		
		Suction Scrubber B	20-V-1100B	BCE	0	37584	0	0	100.00%			
		Suction Scrubber C	20-V-1100C	BCE	0	28359	332	0	100.00%			
		Gas Turbine A	20-GT-1210A	BCE	0	8909	574	0	100.00%			
		Gas Turbine B	20-GT-1210B	BCE	4	15991	0	0.000250141	100.00%			
		Gas Turbine C	20-GT-1210C	BCE	0	2276	332	0	100.00%			
		Gas Compressor A	20-C-1210A	BCE	0	1981	574	0	100.00%			
		Gas Compressor B	20-C-1210B	BCE	0	37584	0	0	100.00%			
		Gas Compressor C	20-C-1210C	BCE	0	1672	332	0	100.00%			
		After Cooler Fan A1	20-E-1110A1	BCE	1	24352.5	287	4.10635E-05	98.83%			
		After Cooler Fan A2	20-E-1110A2	BCE	0	24352.5	287	0	100.00%			
		After Cooler Fan B1	20-E-1110B1	BCE	1	18792	0	5.32141E-05	100.00%			
		After Cooler Fan B2	20-E-1110B2	BCE	1	18792	0	5.32141E-05	100.00%			
		After Cooler Fan C1	20-E-1110C1	BCE	0	14208	166	0	100.00%			
		After Cooler Fan C2	20-E-1110C2	BCE	0	14208	166	0	100.00%			
		Antisurge Valve A	20-FCV-1318A	BCE	1	48067	574	2.08043E-05	98.81%			
		Antisurge Valve B	20-FCV-1318B	BCE	0	37584	0	0	100.00%			
		Antisurge Valve C	20-FCV-1318C	BCE	0	28357	332	0	100.00%			
	PGD Power Generator	Gas Engine A	20-GE-5010A	BCE	3	44330	438	6.76743E-05	97.08%	100.00%		
		Gas Engine B	20-GE-5010B	BCE	4	51010	139	7.8416E-05	98.92%			
		Diesel Engine	20-DE-5020	BCE	0	1112.1	1	0	100.00%			
		Generator A	20-GEN-5010A	BCE	3	44330	438	6.76743E-05	97.08%			
		Generator B	20-GEN-5010B	BCE	4	51010	139	7.8416E-05	98.92%			
		Generator C	20-GEN-5020	BCE	0	1111.4	0.3	0	100.00%			
	PGD Air Compressor	Motor Driver A	20-M-2310A	BCE	0	43132	244	0	100.00%	98.05%		
		Motor Driver B	20-M-2310B	BCE	0	40538	192	0	100.00%			
		Air Compressor A	20-C-2310A	BCE	1	43132	244	2.31846E-05	99.44%			
		Air Compressor B	20-C-2310B	BCE	8	40538	192	0.000197346	96.28%			
		Utility Air Receiver	20-V-2320	BCE	3	92568	600	3.24086E-05	98.07%			
		Air Dryer Package A	20-M-2330A	BCE	1	50201	247	1.99199E-05	99.51%			
		Air Dryer Package B	20-M-2330B	BCE	0	50136	345	0	100.00%			
		Instrument Air Receiver	20-V-2340	BCE	0	92568	600	0	100.00%			
	PGD Fuel Gas Turbine	Scrubber	20-V-2020	BCE	0	92568	600	0	100.00%	100.00%		
		Filter A	20-F-2020A	BCE	0	92568	600	0	100.00%			
		Filter B	20-F-2020B	BCE	0	92568	600	0	100.00%			
		Heater A	20-E-2020A	BCE	0	92568	600	0	100.00%			
		Heater B	20-E-2020B	BCE	0	92568	600	0	100.00%			
		PCV A	20-PCV-2001A	BCE	1	92568	600	1.08029E-05	99.35%			
		PCV B	20-PCV-2001B	BCE	0	92568	600	0	100.00%			
		On-Off Valve A	20-XV-2020A	BCE	0	92568	600	0	100.00%			
		On-Off Valve B	20-XV-2020B	BCE	0	92568	600	0	100.00%			
	PGD Fuel Gas Generator	PCV A	20-PCV-2012A	BCE	0	92568	600	0	100.00%	100.00%		
		PCV B	20-PCV-2012B	BCE	0	92568	600	0	100.00%			
		Filter A	20-F-2010A	BCE	0	92568	600	0	100.00%			
		Filter B	20-F-2010B	BCE	0	92568	600	0	100.00%			
		PCV A	20-PCV-2013A	BCE	0	92568	600	0	100.00%			
		PCV B	20-PCV-2013B	BCE	0	92568	600	0	100.00%			
		PCV A	20-PCV-2023A	BCE	0	92568	600	0	100.00%			

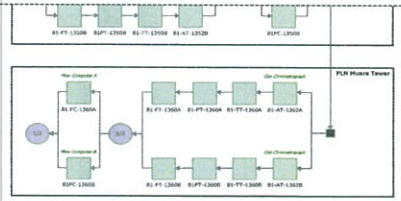
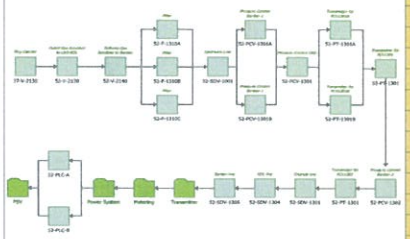
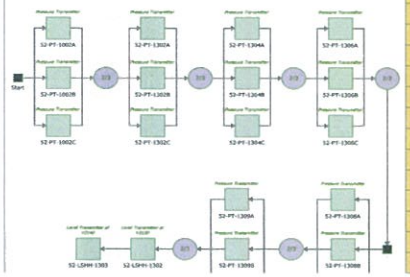
Wilayah Operasi	System / Subsystem		Tag Number	Classification	Number of Cummulative Failures	Aggregated Time in Service	Operating (Mission) Time	Failure Rate	Reliability Inherent	Reliability System	Reliability Wilayah / Area	Reliability Critical Total TSJ
				(SCE - BCE)	(N - Failures)	(Hours)	(Hours)	(Failure/Hours)	%	%	%	%
		PCV B	20-PCV-2023B	BCE	0	92568	600	0	100.00%			
		Filter A	20-F-5010A	BCE	0	92568	600	0	100.00%			
		Filter B	20-F-5010B	BCE	0	92568	600	0	100.00%			
		PCV A	20-F-5010A	BCE	0	92568	600	0	100.00%			
		PCV B	20-F-5010B	BCE	0	92568	600	0	100.00%			
	PGD Sensor											
		Pressure Inlet Sensor A	20-PSHH-1011A	BCE	0	92568	600	0	100.00%	100.00%		
		Pressure Inlet Sensor B	20-PSHH-1011B	BCE	0	92568	600	0	100.00%			
		Pressure Inlet Sensor C	20-PSHH-1011C	BCE	0	92568	600	0	100.00%			
		Level Sensor Train 1	20-LSHH-1012A	BCE	0	92568	600	0	100.00%			
		Level Sensor Train 2	20-LSHH-1012B	BCE	0	92568	600	0	100.00%			
		Level Sensor Train 3	20-LSHH-1012C	BCE	0	92568	600	0	100.00%			
		Pressure Outlet Sensor A	20-PSHH-1315A	BCE	0	92568	600	0	100.00%			
		Pressure Outlet Sensor B	20-PSHH-1315B	BCE	0	92568	600	0	100.00%			
		Pressure Outlet Sensor C	20-PSHH-1315C	BCE	0	92568	600	0	100.00%			
		Temp Sensor Aftercooler A	20-TSHH-1317A	BCE	0	92568	600	0	100.00%			
		Temp Sensor Aftercooler B	20-TSHH-1317B	BCE	0	92568	600	0	100.00%			
		Temp Sensor Aftercooler C	20-TSHH-1317C	BCE	0	92568	600	0	100.00%			
		Pressure Sensor Main Discharge	20-PSLL-1303	BCE	0	92568	600	0	100.00%			
		Level Sensor Fuel Gas Turbine	20-LSHH-2010	BCE	0	92568	600	0	100.00%			
		Pressure Sensor Suction Compressor A	20-PSLL-1013A	BCE	0	92568	600	0	100.00%			
		Pressure Sensor Suction Compressor B	20-PSLL-1013B	BCE	0	6576	600	0	100.00%			
		Pressure Sensor Suction Compressor C	20-PSLL-1013C	BCE	0	92568	600	0	100.00%			
		Pressure Sensor IA Tank	20-PSLL-2340	BCE	0	92568	600	0	100.00%			
		Level Sensor Train-1	20-LSHH-1012A	BCE	0	92568	600	0	100.00%			
		Level Sensor Train-2	20-LSHH-1012B	BCE	0	92568	600	0	100.00%			
		Level Sensor Train-3	20-LSHH-1012C	BCE	0	92568	600	0	100.00%			
	PGD FNG											
		Heat Detector	20-H-P-102	SCE	0	92568	600	0	100.00%	100.00%		
		Heat Detector	1/1	SCE	0	92568	600	0	100.00%			
		Heat Detector	20-H-P-107	SCE	0	92568	600	0	100.00%			
		Heat Detector	20-H-P-108	SCE	0	92568	600	0	100.00%			
		Heat Detector	20-H-P-111	SCE	0	92568	600	0	100.00%			
		Heat Detector	20-H-P-112	SCE	0	92568	600	0	100.00%			
		Smoke Detector	20-IS-P-102	SCE	0	92568	600	0	100.00%			
		Smoke Detector	20-IS-P-104	SCE	0	92568	600	0	100.00%			
		Smoke Detector	20-IS-P-113	SCE	0	92568	600	0	100.00%			
		Smoke Detector	20-IS-P-115	SCE	0	92568	600	0	100.00%			
		Smoke Detector	20-IS-P-117	SCE	0	92568	600	0	100.00%			
		Smoke Detector	20-IS-P-119	SCE	0	92568	600	0	100.00%			
		Flame Detector	20-UVIR-401	SCE	0	59808	600	0	100.00%			
		Flame Detector	20-UVIR-406	SCE	0	92448	600	0	100.00%			
		Flame Detector	20-UVIR-402	SCE	0	59808	600	0	100.00%			
		Flame Detector	20-UVIR-405	SCE	0	59808	600	0	100.00%			
		Flame Detector	20-UVIR-403	SCE	0	59808	600	0	100.00%			
		Flame Detector	20-UVIR-404	SCE	0	59808	600	0	100.00%			
		Gas Detector	20-GD-1001	SCE	2	89664	600	2.23055E-05	98.67%			
		Gas Detector	20-GD-1002	SCE	1	89664	600	1.11527E-05	99.33%			
		Gas Detector	20-GD-1003	SCE	0	89664	600	0	100.00%			
		Gas Detector	20-GD-1004	SCE	2	89664	600	2.23055E-05	98.67%			
		Gas Detector	20-GD-1005	SCE	1	89664	600	1.11527E-05	99.33%			
		Gas Detector	20-GD-1006	SCE	1	32136	600	3.11177E-05	98.15%			
	PGD SDV											
		Inlet SDV	20-SDV-1001	SCE	1	92568	600	1.08029E-05	99.35%	98.71%		
		Inlet Train 1 SDV	20-SDV-1011A	SCE	0	92568	600	0	100.00%			
		Inlet Train 2 SDV	20-SDV-1011B	SCE	0	92568	600	0	100.00%			
		Inlet Train 3 SDV	20-SDV-1011C	SCE	0	92568	600	0	100.00%			
		Outlet Train 1 SDV	20-SDV-1316A	SCE	0	92568	600	0	100.00%			

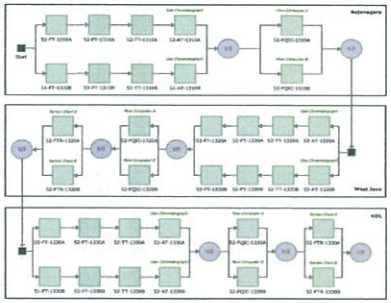
Wilayah Operasi	System / Subsystem		Tag Number	Classification	Number of Cummulative Failures	Aggregated Time in Service	Operating (Mission) Time	Failure Rate	Reliability Inherent	Reliability System	Reliability Wilayah / Area	Reliability Critical Total TSJ
				(SCE - BCE)	(N - Failures)	(Hours)	(Hours)	(Failure/Hours)	%	%	%	%
		Outlet Train 2 SDV	20-SDV-1316B	SCE	1	92568	600	1.08029E-05	99.35%			
		Outlet Train 3 SDV	20-SDV-1316C	SCE	0	92568	600	0	100.00%			
		Outlet SDV	20-SDV-1303	SCE	0	92568	600	0	100.00%			
		Fuel Gas Turbine SDV	20-SDV-2001	SCE	0	92568	600	0	100.00%			
		Fuel Gas Generator SDV	20-SDV-2011	SCE	0	92568	600	0	100.00%			
		Press Eq Inlet SDV	20-SDV-1002	SCE	1	92568	600	1.08029E-05	99.35%			
		Press Eq Inlet Train 1 SDV	20-SDV-1012A	SCE	0	92568	600	0	100.00%			
		Press Eq Inlet Train 2 SDV	20-SDV-1012B	SCE	1	92568	600	1.08029E-05	99.35%			
		Press Eq Inlet Train 3 SDV	20-SDV-1012C	SCE	0	92568	600	0	100.00%			
		Press Eq Outlet Train 1 SDV	20-SDV-1317A	SCE	0	92568	600	0	100.00%			
		Press Eq Outlet Train 2 SDV	20-SDV-1317B	SCE	0	92568	600	0	100.00%			
		Press Eq Outlet Train 3 SDV	20-SDV-1317C	SCE	0	92568	600	0	100.00%			
		Press Eq DGS Train 1 SDV	20-SDV-1312A	SCE	0	92568	600	0	100.00%			
		Press Eq DGS Train 2 SDV	20-SDV-1312B	SCE	0	92568	600	0	100.00%			
		Press Eq DGS Train 3 SDV	20-SDV-1312C	SCE	0	92568	600	0	100.00%			
		Press Eq Outlet SDV	20-SDV-1304	SCE	0	92568	600	0	100.00%			
		Sump Tank SDV	20-SDV-2111A	SCE	0	92568	600	0	100.00%			
		Sump Tank SDV	20-SDV-2111B	SCE	0	92568	600	0	100.00%			
		Sump Tank SDV	20-SDV-2111C	SCE	0	92568	600	0	100.00%			
	PGD BDV											
		Compressor Discharge BDV	20-BDV-1401	SCE	0	92568	600	0	100.00%	100.00%		
		Compressor Suction BDV	20-BDV-1402	SCE	0	92568	600	0	100.00%			
		Train 1 BDV	20-BDV-1411	SCE	0	92568	600	0	100.00%			
		Train 2 BDV	20-BDV-1412	SCE	1	92568	600	1.08029E-05	99.35%			
		Train 3 BDV	20-BDV-1413	SCE	1	92568	600	1.08029E-05	99.35%			
		Fuel Gas Turbine BDV	20-BDV-1403	SCE	0	92568	600	0	100.00%			
		Fuel Gas Generator BDV	20-BDV-1404	SCE	0	92568	600	0	100.00%			
	PGD PSV											
		Discharge Line PSV	20-PSV-1314	SCE	0	92568	600	0	100.00%	100.00%		
		Suction Scrubber Train 1 PSV	20-PSV-2012A	SCE	0	92568	600	0	100.00%			
		Suction Scrubber Train 2 PSV	20-PSV-2012B	SCE	0	92568	600	0	100.00%			
		Suction Scrubber Train 3 PSV	20-PSV-2012C	SCE	0	92568	600	0	100.00%			
		Discharge Line PSV	20-PSV-1315	SCE	0	92568	600	0	100.00%			
		Fuel Gas Turbine PSV	20-PSV-2001	SCE	0	92568	600	0	100.00%			
		Fuel Gas Scrubber PSV	20-PSV-2010	SCE	0	92568	600	0	100.00%			
		Fuel Gas Generator PSV	20-PSV-2015	SCE	0	92568	600	0	100.00%			
		Filter Turbine PSV	20-PSV-2020A	SCE	0	92568	600	0	100.00%			
		Filter Turbine PSV	20-PSV-2020B	SCE	0	92568	600	0	100.00%			
		Fuel Gas Starter PSV	20-PSV-2030	SCE	0	92568	600	0	100.00%			
		Sump Tank PSV	20-PSV-2110	SCE	0	92568	600	0	100.00%			
		Instrument Air Compressor PSV	20-PSV-2310A	SCE	0	92568	600	0	100.00%			
		Instrument Air Compressor PSV	20-PSV-2310B	SCE	0	92568	600	0	100.00%			
		Utility Air Tank PSV	20-PSV-2320	SCE	0	92568	600	0	100.00%			
		GEG A PSV	20-PSV-5010A	SCE	0	92568	600	0	100.00%			
		GEG B PSV	20-PSV-5010B	SCE	0	92568	600	0	100.00%			
		Intrument Air Tank PSV	20-PSV-2340	SCE	0	92568	600	0	100.00%			
	Stasiun Metering Pagardewa											
		SDV	33-SDV-1016	SCE	0	99984	600	0	100.00%	99.25%		
		Pressure Transmitter A	33-PT-1030A	SCE	0	99984	600	0	100.00%			
		Pressure Transmitter B	33-PT-1030B	SCE	0	99984	600	0	100.00%			
		Pressure Transmitter C	33-PT-1030C	SCE	0	99984	600	0	100.00%			
		SDV	33-SDV-1021	SCE	0	91200	600	0	100.00%			
		Pressure Transmitter A	33-PT-1011A	SCE	0	37848	600	0	100.00%			
		Pressure Transmitter B	33-PT-1011B	SCE	0	37848	600	0	100.00%			
		Pressure Transmitter C	33-PT-1011C	SCE	0	37848	600	0	100.00%			
		Flow Transmitter A	33-FT-1350A	BCE	6	91272	600	6.57376E-05	96.13%			
		Pressure Transmitter A	33-PT-1350A	BCE	0	37848	600	0	100.00%			
		Temperature Transmitter A	33-TT-1350A	BCE	0	37848	600	0	100.00%			

Wilayah Operasi	System / Subsystem		Tag Number	Classification	Number of Cummulative Failures	Aggregated Time in Service	Operating (Mission) Time	Failure Rate	Reliability Inherent	Reliability System	Reliability Wilayah / Area	Reliability Critical Total TSJ
				(SCE - BCE)	(N - Failures)	(Hours)	(Hours)	(Failure/Hours)	%	%	%	%
		Gas Chromatograph A	33-AT-1352A	BCE	10	37848	600	0.000264215	85.34%			
		Flow Transmitter B	33-FT-1350B	BCE	0	91248	600	0	100.00%			
		Pressure Transmitter B	33-PT-1350B	BCE	0	99984	600	0	100.00%			
		Temperature Transmitter B	33-TT-1350B	BCE	0	99984	600	0	100.00%			
		Gas Chromatograph B	33-AT-1352B	BCE	7	99984	600	7.00112E-05	95.89%			
		Flow Computer A	33-FC-A	BCE	0	99984	600	0	100.00%			
		Flow Computer B	33-FC-B	BCE	0	99984	600	0	100.00%			
		Sump Tank	33-V-2110	BCE	0	99984	600	0	100.00%			
		Slug Catcher	33-V-2120	BCE	0	96144	600	0	100.00%			
		Slam Shut Off Valve	33-SSV-2141	SCE	0	99984	600	0	100.00%			
		Slam Shut Off Valve	33-SSV-2130	SCE	0	99984	600	0	100.00%			
		Pressure Safety Valve	33-PSV-2110A	SCE	0	99240	600	0	100.00%			
		Pressure Safety Valve	33-PSV-2110B	SCE	0	99240	600	0	100.00%			
		Pressure Safety Valve	33-PSV-1320	SCE	0	99240	600	0	100.00%			
		Pressure Safety Valve	33-PSV-1020A	SCE	0	99240	600	0	100.00%			
		Pressure Safety Valve	33-PSV-1020B	SCE	0	99240	600	0	100.00%			
		Pressure Safety Valve	33-PSV-1310	SCE	0	99240	600	0	100.00%			
		Pressure Safety Valve	33-PSV-1010A	SCE	0	99240	600	0	100.00%			
		Pressure Safety Valve	33-PSV-1010B	SCE	0	99240	600	0	100.00%			
		Flow Control Valve	33-FCV-1320	BCE	0	99240	600	0	100.00%			
		PLC	33-PLC-A	BCE	1	99240	600	1.00766E-05	99.40%			
		PLC	33-PLC-B	BCE	1	99240	600	1.00766E-05	99.40%			
		DEG	33-DEG-5020	BCE	2	99240	600	2.01532E-05	98.80%			
		UPS A	33-UPS-5050A	BCE	1	84936	600	1.17736E-05	99.30%			
		UPS B	33-UPS-5050B	BCE	1	94752	600	1.05539E-05	99.37%			
	Pipelines Area Sumatera Selatan	Section 1 : SSWJ Phase 2 (GRS - PGD)	Sta. GRS (KP 196) - KP 98	BCE	0	98,832	600	0	100.00%	100.00%		
		Section 1 : SSWJ Phase 2 (GRS - PGD)	KP 121 - Sta. TLD	BCE	0	98,832	600	0	100.00%			
		Section 2 : SSWJ Phase 2 (GRS - PGD)	KP 98 - Sta. PGD (KP 0)	BCE	0	98,832	600	0	100.00%			
		Section 2 : SSWJ Phase 1 (SPG - PGD)	SPG PGD (KP 4) - Sta. PGD (KP 0)	BCE	0	98,832	600	0	100.00%			
		Section 3 : SSWJ Phase 2 (PGD - LBM)	Sta. PGD (KP 0) - KP 60+500	BCE	0	98,832	600	0	100.00%			
		Section 3 : SSWJ Phase 1 (PGD - LBM)	Sta. PGD (KP 0) - KP 60+500	BCE	0	98,832	600	0	100.00%			
Lampung	Stasiun Terbanggi Besar	SDV Phase 1	35-SDV-1081	SCE	2	100680	600	1.98649E-05	98.82%	99.97%	92.75%	
		SDV Phase 2	35-SDV-1023	SCE	4	91896	600	4.35275E-05	97.42%			
		Slug Catcher Phase 1	35-V-2120	BCE	0	100680	600	0	100.00%			
		Slug Catcher Phase 2	35-V-2130	BCE	0	91896	600	0	100.00%			
		Pressure Transmitter	35-PT-1061	BCE	0	100680	600	0	100.00%			
		Pressure Transmitter	35-PT-1062	BCE	0	100680	600	0	100.00%			
		Pressure Transmitter	35-PT-1063	BCE	0	100680	600	0	100.00%			
		Pressure Transmitter	35-PT-1031A	BCE	0	91896	600	0	100.00%			
		Pressure Transmitter	35-PT-1031B	BCE	0	91896	600	0	100.00%			
		Pressure Transmitter	35-PT-1031C	BCE	0	91896	600	0	100.00%			
		Pressure Safety Valve	35-PSV-2120A	SCE	0	100680	600	0	100.00%			
		Pressure Safety Valve	35-PSV-2120B	SCE	0	100680	600	0	100.00%			
		Pressure Safety Valve	35-PSV-2130A	SCE	0	91896	600	0	100.00%			
		Pressure Safety Valve	35-PSV-2130B	SCE	0	91896	600	0	100.00%			
		SCADA	35-PLC-A	BCE	0	100680	600	0	100.00%			
		SCADA	35-PLC-B	BCE	0	100680	600	0	100.00%			
		Pressure Safety Valve	35-PSV-1020	SCE	0	13032	600	0	100.00%			
		Pressure Safety Valve	35-PSV-1010	SCE	0	100680	600	0	100.00%			
		Pressure Safety Valve	35-PSV-1020A	SCE	0	91896	600	0	100.00%			
		Pressure Safety Valve	35-PSV-1020B	SCE	0	91896	600	0	100.00%			
		Pressure Safety Valve	35-PSV-1320	SCE	0	91896	600	0	100.00%			
		Pressure Safety Valve	35-PSV-1310	SCE	0	100680	600	0	100.00%			
		GEG	35-GEG-5010	BCE	8	51960	500	0.000153965	92.59%			
		DEG	35-DEG-5020	BCE	0	28.4	8	0	100.00%			
		UPS	35-UPS-5010A/B/C	BCE	0	100680	600	0	100.00%			

Wilayah Operasi	System / Subsystem		Tag Number	Classification	Number of Cummulative Failures	Aggregated Time in Service	Operating (Mission) Time	Failure Rate	Reliability Inherent	Reliability System	Reliability Wilayah / Area	Reliability Critical Total TSJ
				(SCE - BCE)	(N - Failures)	(Hours)	(Hours)	(Failure/Hours)	%	%	%	%
	Stasiun Labuhan Maringgai	SDV Phase 2	37-SDV-1022	SCE	6	91920	600	6.52742E-05	96.16%	92.78%		
		Flow Control Valve Line LBM-MBK (Phase 2)	37-FCV-1322A	BCE	0	91920	600	0	100.00%			
		Flow Control Valve Line LBM-MBK (Phase 2)	37-FCV-1322B	BCE	0	91920	600	0	100.00%			
		SDV Phase 1	37-SDV-1081	SCE	6	100704	600	5.95806E-05	96.49%			
		PLC	37-PLC-A	BCE	0	100704	600	0	100.00%			
		PLC	37-PLC-B	BCE	0	100704	600	0	100.00%			
		Slug Catcher Phase 1	37-V-2120	BCE	0	100704	600	0	100.00%			
		Slug Catcher Phase 2	37-V-2130	BCE	0	91920	600	0	100.00%			
		Flow Control Valve Line LBM-BJN(Phase 1)	37-FCV-1333A	BCE	0	100704	600	0	100.00%			
		Flow Control Valve Line LBM-BJN(Phase 1)	37-FCV-1333B	BCE	0	100704	600	0	100.00%			
		Pressure Transmitter Phase 1	37-PT-1061	BCE	0	100704	600	0	100.00%			
		Pressure Transmitter Phase 1	37-PT-1062	BCE	0	100704	600	0	100.00%			
		Pressure Transmitter Phase 1	37-PT-1063	BCE	0	100704	600	0	100.00%			
		Pressure Transmitter Phase 2	37-PT-1021A	BCE	0	91920	600	0	100.00%			
		Pressure Transmitter Phase 2	37-PT-1021B	BCE	0	91920	600	0	100.00%			
		Pressure Transmitter Phase 2	37-PT-1021C	BCE	0	91920	600	0	100.00%			
		Pressure Safety Valve at V2120	37-PSV-2120A	SCE	0	100704	600	0	100.00%			
		Pressure Safety Valve at V2120	37-PSV-2120B	SCE	0	100704	600	0	100.00%			
		Pressure Safety Valve at V2130	37-PSV-2130A	SCE	0	91920	600	0	100.00%			
		Pressure Safety Valve at V2130	37-PSV-2130B	SCE	0	91920	600	0	100.00%			
		Pressure Safety Valve at Barrel (Pig Receiver Phase 2)	37-PSV-1020A	SCE	0	91920	600	0	100.00%			
		Pressure Safety Valve at Barrel (Pig Receiver Phase 2)	37-PSV-1020B	SCE	0	91920	600	0	100.00%			
		Pressure Safety Valve at Barrel (Pig Receiver Phase 1)	37-PSV-1010	SCE	0	101424	600	0	100.00%			
		Pressure Safety Valve at Barrel (Pig Launcher Phase 1)	41-PSV-1310	SCE	0	101424	600	0	100.00%			
		Pressure Safety Valve at Barrel (Pig Launcher Phase 2)	71-PSV-1310	SCE	0	91920	600	0	100.00%			
		DEG	37-DEG-5010	BCE	2	185.8	10	0.010764263	89.79%			
		GEG	37-GEG-5020	BCE	9	14205.8	4	0.000633544	99.75%			
	Pipelines Area Lampung	Section 4 : SSWJ Phase 2 (PGD - LBM)	KP 60+500 - KP 109	BCE	0	91920	600	0	100.00%			
		Section 4 : SSWJ Phase 1 (PGD - LBM)	KP 60+500 - KP 109	BCE	0	100704	600	0	100.00%			
		Section 5 : SSWJ Phase 2 (PGD - LBM)	KP 109 - Sta. TBB (KP 171)	BCE	0	91920	600	0	100.00%			
		Section 5 : SSWJ Phase 1 (PGD - LBM)	KP 109 - Sta. TBB (KP 171)	BCE	0	100704	600	0	100.00%			
		Section 5 : SSWJ Phase 2 (PGD - LBM)	Sta. TBB (KP 171) - KP 182	BCE	0	91920	600	0	100.00%			
		Section 5 : SSWJ Phase 1 (PGD - LBM)	Sta. TBB (KP 171) - KP 182	BCE	0	100704	600	0	100.00%			
		Section 6 : SSWJ Phase 2 (PGD - LBM)	KP 182 - Sta. LBM (KP 272)	BCE	0	91920	600	0	100.00%			
		Section 6 : SSWJ Phase 1 (PGD - LBM)	KP 182 - Sta. LBM (KP 272)	BCE	0	100704	600	0	100.00%			
		Section 6 : SSWJ Phase 2 (PGD - LBM)	Sta. LBM (KP 272) - KP 5	BCE	0	91920	600	0	100.00%			
		Section 6 : SSWJ Phase 1 (PGD - LBM)	Sta. LBM (KP 272) - KP 5	BCE	0	100704	600	0	100.00%			
Jawa Bagian Barat	Stasiun Muara Bekasi	SDV (to Rawamaju)	81-SDV-1013	SCE	0	101328	600	0	100.00%	96.17%	96.17%	
		Filter (to Rawamaju)	81-F-1310A	BCE	0	101328	600	0	100.00%			
		Filter (to Rawamaju)	81-F-1310B	BCE	0	101328	600	0	100.00%			
		Filter (to Rawamaju)	81-F-1310C	BCE	0	101328	600	0	100.00%			
		Filter (to PLN MT)	81-F-1320A	BCE	0	46440	600	0	100.00%			
		Filter (to PLN MT)	81-F-1320B	BCE	0	46440	600	0	100.00%			
		Filter (to PLN MT)	81-F-1320C	BCE	0	46440	600	0	100.00%			
		SDV (to PLN MT)	81-SDV-1014	SCE	2	46440	600	4.30663E-05	97.45%			
		PCV (to Rawamaju)	81-PCV-1320A	BCE	2	46440	600	4.30663E-05	97.45%			
		PCV (to Rawamaju)	81-PCV-1320B	BCE	1	57506	600	1.73895E-05	98.96%			
		Pressure Transmitter (for PCV 1320 A)	81-PT-1330N A	BCE	0	102048	600	0	100.00%			
		Pressure Transmitter (for PCV 1320 B)	81-PT-1330N B	BCE	0	102048	600	0	100.00%			
		Scrubber (to Rawamaju)	81-V-2160	BCE	0	47184	600	0	100.00%			
		Scrubber (to PLN MT)	81-V-2150	BCE	0	47184	600	0	100.00%			
		Slug Catcher (to Rawamaju)	81-V-2110	BCE	2	101306	600	1.97422E-05	98.82%			
		PCV (to PLN MT)	81-PCV-1330A	BCE	1	18528	600	5.39724E-05	96.81%			
		PCV (to PLN MT)	81-PCV-1330B	BCE	1	46512	600	2.14998E-05	98.72%			
		Pressure Transmitter (for PCV 1330A)	81-PT-1350N A	BCE	0	47184	600	0	100.00%			

Wilayah Operasi	System / Subsystem		Tag Number	Classification	Number of Cummulative Failures	Aggregated Time in Service	Operating (Mission) Time	Failure Rate	Reliability Inherent	Reliability System	Reliability Wilayah / Area	Reliability Critical Total TSJ
				(SCE - BCE)	(N - Failures)	(Hours)	(Hours)	(Failure/Hours)	%	%	%	%
		Pressure Transmitter (for PCV 1330B)	81-PT-1350N B	BCE	0	47184	600	0	100.00%			
		-	Transmitter Block	-	-	-	-	-	99.98%			
		-	Air Comp Syst Block	-	-	-	-	-	100.00%			
		-	PSV Block	-	-	-	-	-	100.00%			
		-	Metering Syst Block	-	-	-	-	-	99.96%			
		PLC (to Rawamaju)	81-PLC-A	BCE	1	101328	600	9.86894E-06	99.41%			
		PLC (to Rawamaju)	81-PLC-B	BCE	1	101328	600	9.86894E-06	99.41%			
		-	Power Block	-	-	-	-	-	100.00%			
		PLC (to PLN MT)	81-PLC-C	BCE	1	47184	600	2.11936E-05	98.74%			
		PLC (to PLN MT)	81-PLC-D	BCE	1	47184	600	2.11936E-05	98.74%			
	Transmitter Block	Pressure Transmitter	81-PT-1011A	BCE	0	101328	600	0	100.00%	99.98%		
		Pressure Transmitter	81-PT-1011B	BCE	0	101328	600	0	100.00%			
		Pressure Transmitter	81-PT-1011C	BCE	0	101328	600	0	100.00%			
		Pressure Transmitter	81-PT-1320A	BCE	0	101328	600	0	100.00%			
		Pressure Transmitter	81-PT-1320B	BCE	0	101328	600	0	100.00%			
		Pressure Transmitter	81-PT-1320C	BCE	0	101328	600	0	100.00%			
		Pressure Transmitter	81-PT-1012A	BCE	1	47184	600	2.11936E-05	98.74%			
		Pressure Transmitter	81-PT-1012B	BCE	1	47184	600	2.11936E-05	98.74%			
		Pressure Transmitter	81-PT-1012C	BCE	0	47184	600	0	100.00%			
		Pressure Transmitter	81-PT-1340A	BCE	0	47184	600	0	100.00%			
		Pressure Transmitter	81-PT-1340B	BCE	0	47184	600	0	100.00%			
		Pressure Transmitter	81-PT-1340C	BCE	0	47184	600	0	100.00%			
		Pressure Transmitter	81-LT-2150A	BCE	1	47184	600	2.11936E-05	98.74%			
		Pressure Transmitter	81-LT-2150B	BCE	0	47184	600	0	100.00%			
		Pressure Transmitter	81-LT-2150C	BCE	0	47184	600	0	100.00%			
		Pressure Transmitter	81-LT-2160A	BCE	0	47184	600	0	100.00%			
		Pressure Transmitter	81-LT-2160B	BCE	0	47184	600	0	100.00%			
		Pressure Transmitter	81-LT-2160C	BCE	0	47184	600	0	100.00%			
	Instrument Air Compressor Block	Motor Driver A	81-M-2310A	BCE	0	47184	600	0	100.00%	100.00%		
		Motor Driver B	81-M-2310B	BCE	0	47184	600	0	100.00%			
		Air Compressor A	81-E-2310A	BCE	1	11448	600	8.73515E-05	94.89%			
		Air Compressor B	81-E-2310B	BCE	0	47184	600	0	100.00%			
		Utility Air Receiver	81-V-2320	BCE	0	47184	600	0	100.00%			
		Air Dryer Package 1	81-S1	BCE	0	47184	600	0	100.00%			
		Air Dryer Package 2	81-S2	BCE	0	47184	600	0	100.00%			
		Air Dryer Package 3	81-S3	BCE	0	47184	600	0	100.00%			
		Air Dryer Package 4	81-S4	BCE	0	47184	600	0	100.00%			
		Instrument Air Receiver	81-V-2340	BCE	0	47184	600	0	100.00%			
	PSV Block	Pressure Safety Valve	81-PSV-1310A	SCE	0	100788	600	0	100.00%	100.00%		
		Pressure Safety Valve	81-PSV-1310B	SCE	0	100788	600	0	100.00%			
		Pressure Safety Valve	81-PSV-1310C	SCE	0	100788	600	0	100.00%			
		Pressure Safety Valve	81-PSV-1320A	SCE	0	47184	600	0	100.00%			
		Pressure Safety Valve	81-PSV-1320B	SCE	0	47184	600	0	100.00%			
		Pressure Safety Valve	81-PSV-1320C	SCE	0	47184	600	0	100.00%			
		Pressure Safety Valve	81-PSV-2111A	SCE	0	100788	600	0	100.00%			
		Pressure Safety Valve	81-PSV-2111B	SCE	0	100788	600	0	100.00%			
	Metering Block	Flow Transmitter A	81-FT-1350A	BCE	0	100788	600	0	100.00%	99.96%		
		Flow Transmitter B	81-FT-1350B	BCE	0	100788	600	0	100.00%			
		Pressure Transmitter A	81-PT-1350A	BCE	0	100788	600	0	100.00%			
		Pressure Transmitter B	81-PT-1350B	BCE	0	100788	600	0	100.00%			
		Temperature Transmitter A	81-TT-1350A	BCE	0	100788	600	0	100.00%			
		Temperature Transmitter B	81-TT-1350B	BCE	1	100788	600	9.92182E-06	99.41%			
		Gas Chromatograph A	81-AT-1352A	BCE	1	100788	600	9.92182E-06	99.41%			
		Gas Chromatograph B	81-AT-1352B	BCE	0	100788	600	0	100.00%			

Wilayah Operasi	System / Subsystem		Tag Number	Classification	Number of Cummulative Failures	Aggregated Time in Service	Operating (Mission) Time	Failure Rate	Reliability Inherent	Reliability System	Reliability Wilayah / Area	Reliability Critical Total TSJ
				(SCE - BCE)	(N - Failures)	(Hours)	(Hours)	(Failure/Hours)	%	%	%	%
		Flow Computer A	81-FC-1350A	BCE	1	100788	600	9.92182E-06	99.41%			
		Flow Computer B	81-FC-1350B	BCE	0	100788	600	0	100.00%			
		Flow Transmitter A	81-FT-1360A	BCE	0	47184	600	0	100.00%			
		Flow Transmitter B	81-FT-1360B	BCE	0	47184	600	0	100.00%			
		Pressure Transmitter A	81-PT-1360A	BCE	0	47184	600	0	100.00%			
		Pressure Transmitter B	81-PT-1360B	BCE	0	47184	600	0	100.00%			
		Temperature Transmitter A	81-TT-1360A	BCE	1	47184	600	2.11936E-05	98.74%			
		Temperature Transmitter B	81-TT-1360B	BCE	0	47184	600	0	100.00%			
		Gas Chromatograph A	81-AT-1362A	BCE	1	47184	600	2.11936E-05	98.74%			
		Gas Chromatograph B	81-AT-1362B	BCE	1	47184	600	2.11936E-05	98.74%			
		Flow Computer A	81-FC-1360A	BCE	0	47184	600	0	100.00%			
		Flow Computer B	81-FC-1360B	BCE	0	47184	600	0	100.00%			
	Power Block	DEG	81-DEG-2210	BCE	1	14520	600	6.88705E-05	95.95%	100.00%		
		DEG	81-DEG-5020	BCE	1	14520	600	6.88705E-05	95.95%			
		Main Source	81-PLN	BCE	0	100788	600	0	100.00%			
		UPS	81-UPS-5010 A/B/C/D	BCE	1	10968	600	9.11743E-05	94.68%			
	Stasiun Bojonegara	Slug Catcher	37-V-2130	BCE	0	103728	600	0	100.00%	100.00%		
		Outlet Gas Scrubber (to CKD-KDL)	52-V-2130	BCE	0	103728	600	0	100.00%			
		Delivery gas Scrubber (to Banten)	52-V-2140	BCE	0	103728	600	0	100.00%			
		Filter A	52-F-1310A	BCE	0	103728	600	0	100.00%			
		Filter B	52-F-1310B	BCE	0	103728	600	0	100.00%			
		Filter C	52-F-1310C	BCE	0	103728	600	0	100.00%			
		SDV (Upstream Line)	52-SDV-1001	SCE	0	388848	600	0	100.00%			
		PCV A Banten 1	52-PCV-1301A	BCE	0	51888	600	0	100.00%			
		PCV B Banten 1	52-PCV-1301B	BCE	0	51888	600	0	100.00%			
		PCV CKD	52-PCV-1301	BCE	0	103728	600	0	100.00%			
		Pressure Transmitter A (for PCV 1301A)	52-PT-1301A	BCE	0	51888	600	0	100.00%			
		Pressure Transmitter B (for PCV 1301B)	52-PT-1301B	BCE	0	51888	600	0	100.00%			
		Pressure Transmitter (for PCV 1301)	52-PT-1301	BCE	0	103728	600	0	100.00%			
		PCV Banten 2	52-PCV-1302	BCE	0	95088	600	0	100.00%			
		Pressure Transmitter (for PCV 1301)	52-PT-1301	BCE	0	103728	600	0	100.00%			
		SDV (Cikande Line)	52-SDV-1301	SCE	0	60528	600	0	100.00%			
		SDV (KDL Line)	52-SDV-1304	SCE	0	95088	600	0	100.00%			
		SDV (Banten Line)	52-SDV-1305	SCE	0	60528	600	0	100.00%			
		-	Transmitter Block	BCE	0	60528	600	0	100.00%			
		-	Metering Syst Block	BCE	0	60528	600	0	100.00%			
		-	Power System Block	BCE	0	60528	600	0	100.00%			
		PLC A	52-PLC-A	BCE	0	103728	600	0	100.00%			
		PLC B	52-PLC-B	BCE	0	103728	600	0	100.00%			
		-	PSV Block	SCE	0	103728	600	0	100.00%			
	Transmitter Block	Pressure Transmitter	52-PT-1002A	BCE	0	103728	600	0	100.00%	100.00%		
		Pressure Transmitter	52-PT-1002B	BCE	0	103728	600	0	100.00%			
		Pressure Transmitter	52-PT-1002C	BCE	0	103728	600	0	100.00%			
		Pressure Transmitter	52-PT-1302A	BCE	0	86448	600	0	100.00%			
		Pressure Transmitter	52-PT-1302B	BCE	0	86448	600	0	100.00%			
		Pressure Transmitter	52-PT-1302C	BCE	0	86448	600	0	100.00%			
		Pressure Transmitter	52-PT-1304A	BCE	0	103728	600	0	100.00%			
		Pressure Transmitter	52-PT-1304B	BCE	0	103728	600	0	100.00%			
		Pressure Transmitter	52-PT-1304C	BCE	0	103728	600	0	100.00%			
		Pressure Transmitter	52-PT-1306A	BCE	0	103728	600	0	100.00%			
		Pressure Transmitter	52-PT-1306B	BCE	0	103728	600	0	100.00%			
		Pressure Transmitter	52-PT-1306C	BCE	0	103728	600	0	100.00%			
		Pressure Transmitter	52-PT-1308A	BCE	0	103728	600	0	100.00%			
		Pressure Transmitter	52-PT-1308B	BCE	0	103728	600	0	100.00%			
		Pressure Transmitter	52-PT-1308C	BCE	0	103728	600	0	100.00%			

Wilayah Operasi	System / Subsystem		Tag Number	Classification	Number of Cummulative Failures	Aggregated Time in Service	Operating (Mission) Time	Failure Rate	Reliability Inherent	Reliability System	Reliability Wilayah / Area	Reliability Critical Total TSJ
				(SCE - BCE)	(N - Failures)	(Hours)	(Hours)	(Failure/Hours)	%	%	%	%
		Pressure Transmitter	52-PT-1309A	BCE	0	103728	600	0	100.00%			
		Pressure Transmitter	52-PT-1309B	BCE	0	103728	600	0	100.00%			
		Pressure Transmitter	52-PT-1309C	BCE	0	103728	600	0	100.00%			
		Level Transmitter (at V2140)	52-LSHH-1302	BCE	0	95088	600	0	100.00%			
		Level Transmitter (at V2130)	52-LSHH-1303	BCE	0	103728	600	0	100.00%			
	Metering Block	Flow Transmitter A (Bojonegara)	52-FT-1310A	BCE	0	95088	600	0	100.00%	100.00%		
		Flow Transmitter B (Bojonegara)	52-FT-1310B	BCE	0	95088	600	0	100.00%			
		Pressure Transmitter A (Bojonegara)	52-PT-1310A	BCE	0	95088	600	0	100.00%			
		Pressure Transmitter B (Bojonegara)	52-PT-1310B	BCE	0	95088	600	0	100.00%			
		Temperature Transmitter A (Bojonegara)	52-TT-1310A	BCE	0	95088	600	0	100.00%			
		Temperature Transmitter B (Bojonegara)	52-TT-1310B	BCE	0	95088	600	0	100.00%			
		Gas Chromatograph A (Bojonegara)	52-AT-1310A	BCE	1	17448	600	5.73132E-05	96.62%			
		Gas Chromatograph B (Bojonegara)	52-AT-1310B	BCE	0	95088	600	0	100.00%			
		Flow Computer A (Bojonegara)	52-FQIC-1310A	BCE	0	86448	600	0	100.00%			
		Flow Computer B (Bojonegara)	52-FQIC-1310A	BCE	0	86448	600	0	100.00%			
		Flow Transmitter A (West Java)	52-FT-1320A	BCE	0	86448	600	0	100.00%			
		Flow Transmitter B (West Java)	52-FT-1320B	BCE	0	86448	600	0	100.00%			
		Pressure Transmitter A (West Java)	52-PT-1320A	BCE	0	86448	600	0	100.00%			
		Pressure Transmitter B (West Java)	52-PT-1320B	BCE	0	86448	600	0	100.00%			
		Temperature Transmitter A (West Java)	52-TT-1320A	BCE	0	86448	600	0	100.00%			
		Temperature Transmitter B (West Java)	52-TT-1320B	BCE	0	86448	600	0	100.00%			
		Gas Chromatograph A (West Java)	52-AT-1320A	BCE	0	86448	600	0	100.00%			
		Gas Chromatograph B (West Java)	52-AT-1320B	BCE	0	86448	600	0	100.00%			
		Flow Computer A (West Java)	52-FQIC-1320A	BCE	0	86448	600	0	100.00%			
		Flow Computer B (West Java)	52-FQIC-1320B	BCE	0	86448	600	0	100.00%			
		Barthon Chart A (West Java)	52-FTR-1320A	BCE	0	86448	600	0	100.00%			
		Barthon Chart B (West Java)	52-FTR-1320B	BCE	0	86448	600	0	100.00%			
		Flow Transmitter A (KDL)	52-FT-1330A	BCE	0	86448	600	0	100.00%			
		Flow Transmitter B (KDL)	52-FT-1330B	BCE	0	86448	600	0	100.00%			
		Pressure Transmitter A (KDL)	52-PT-1330A	BCE	0	86448	600	0	100.00%			
		Pressure Transmitter B (KDL)	52-PT-1330B	BCE	0	86448	600	0	100.00%			
		Temperature Transmitter A (KDL)	52-TT-1330A	BCE	0	86448	600	0	100.00%			
		Temperature Transmitter B (KDL)	52-TT-1330B	BCE	0	86448	600	0	100.00%			
		Gas Chromatograph A (KDL)	52-AT-1330A	BCE	0	86448	600	0	100.00%			
		Gas Chromatograph B (KDL)	52-AT-1330B	BCE	0	86448	600	0	100.00%			
		Flow Computer A (KDL)	52-FQIC-1330A	BCE	0	86448	600	0	100.00%			
		Flow Computer B (KDL)	52-FQIC-1330B	BCE	0	86448	600	0	100.00%			
		Barthon Chart A (KDL)	52-FTR-1330A	BCE	0	86448	600	0	100.00%			
		Barthon Chart B (KDL)	52-FTR-1330B	BCE	0	86448	600	0	100.00%			
	Power Block	DEG	52-DEG-2210	BCE	0	12288	600	0	100.00%	100.00%		
		DEG	52-DEG-5020	BCE	0	10848	600	0	100.00%			
		Main Source	52-PLN	BCE	0	103728	600	0	100.00%			
		UPS	52-UPS-5010A/B	BCE	0	103728	600	0	100.00%			
	PSV Block	Pressure Safety Valve (at Outlet Gas Scrubber)	52-PSV-1301A	BCE	0	103728	600	0	100.00%	100.00%		
		Pressure Safety Valve (at Outlet Gas Scrubber)	52-PSV-1301B	BCE	0	103728	600	0	100.00%			
		Pressure Safety Valve (at Gas Filter)	52-PSV-1302A	BCE	0	95088	600	0	100.00%			
		Pressure Safety Valve (at Gas Filter)	52-PSV-1302B	BCE	0	95088	600	0	100.00%			
		Pressure Safety Valve (at Gas Pig Launcher)	52-PSV-1303	BCE	0	103728	600	0	100.00%			
		Pressure Safety Valve (at Delivery Gas Scrubber)	52-PSV-1304A	BCE	0	95088	600	0	100.00%			
		Pressure Safety Valve (at Delivery Gas Scrubber)	52-PSV-1304B	BCE	0	95088	600	0	100.00%			
		Pressure Safety Valve (at Odorizer)	52-PSV-1306	BCE	0	95088	600	0	100.00%			
		Pressure Safety Valve (at Odorizer)	52-PSV-2501	BCE	0	95088	600	0	100.00%			
		Pressure Safety Valve (at Slug Catcher)	52-PSV-2130A	BCE	0	103728	600	0	100.00%			
		Pressure Safety Valve (at Slug Catcher)	52-PSV-2130B	BCE	0	103728	600	0	100.00%			

Wilayah Operasi	System / Subsystem		Tag Number	Classification	Number of Cummulative Failures	Aggregated Time in Service	Operating (Mission) Time	Failure Rate	Reliability Inherent	Reliability System	Reliability Wilayah / Area	Reliability Critical Total TSJ
				(SCE - BCE)	(N - Failures)	(Hours)	(Hours)	(Failure/Hours)	%	%	%	%
	Pipelines Area JBB	Offshore MBK : SSWJ Phase 2 (LBM - MBK)	KP 5 - Sta. MBK (KP 163)	BCE	0	103728	600	0	100.00%			
		Offshore BJN : SSWJ Phase 1 (LBM - BJN)	KP 5 - Sta. BJN (KP 101)	BCE	0	103728	600	0	100.00%			
	Stasiun Metering KDL	Filter A		BCE	0	103728	600	0	100.00%	100.00%		
		Filter B		BCE	0	103728	600	0	100.00%			
		PCV A		BCE	0	103728	600	0	100.00%			
		PCV B		BCE	0	103728	600	0	100.00%			
		Pressure Transmitter 1A		BCE	0	103728	600	0	100.00%			
		Pressure Transmitter 1B		BCE	0	103728	600	0	100.00%			
		PSDV A		SCE	0	103728	600	0	100.00%			
		PSDV B		SCE	0	103728	600	0	100.00%			
		Pressure Transmitter 2A		SCE	0	103728	600	0	100.00%			
		Pressure Transmitter 2B		SCE	0	103728	600	0	100.00%			
		Pressure Transmitter 2C		SCE	0	103728	600	0	100.00%			
		Meter Orifice A		BCE	0	103728	600	0	100.00%			
		Meter Orifice B		BCE	0	103728	600	0	100.00%			
		Flow Computer A		BCE	0	103728	600	0	100.00%			
		Flow Computer B		BCE	0	103728	600	0	100.00%			
		Pressure Transmitter 3A		BCE	0	103728	600	0	100.00%			
		Pressure Transmitter 3B		BCE	0	103728	600	0	100.00%			
		Temperature Transmitter 3A		BCE	0	103728	600	0	100.00%			
		Temperature Transmitter 3B		BCE	0	103728	600	0	100.00%			
		Differetial Pressure Transmitter 3A		BCE	0	103728	600	0	100.00%			
		Differetial Pressure Transmitter 3B		BCE	0	103728	600	0	100.00%			
		Instrument Air Compressor		BCE	0	103728	600	0	100.00%			
		UPS A		BCE	0	103728	600	0	100.00%			
		UPS B		BCE	0	103728	600	0	100.00%			

LAMPIRAN 17.2.T.5 RELIABILITY NON CRITICAL EQUIPMENT TSJ - SUMATERA SELATAN - STASIUN GRISSIK

	Total Jumlah Aset	384.60									
Category	Asset	Tag Number	Classification	Number of Asset	Number of Cummulative Failures	Aggregate Time in Service	Operating (Mission) Time	Failure Rate	Weight Factor	Population NCr Reliability Estimation	NCr Reliability
			SCE / BCE	(Unit)	(N - Failures)	(Hours)	(Hours)	(Failure/Hours)		%	100.00%
Fasilitas	Valves										
	Ball Valves		BCE	18	2	1,699,416	600	1.17687E-06	0.05	99.93%	4.68%
	Plug Valves		BCE	13	-	12,777,964	600	0	0.03	100.00%	3.38%
	Blowdown Valves		BCE	-					-	100.00%	0.00%
	Check Valves		BCE	-	-				-	100.00%	0.00%
	Hand Control Valves		BCE	2		197,664.00	600		0.01	100.00%	0.52%
	P/F/L Control Valves		BCE	-					-	100.00%	0.00%
	Relief Valve		SCE	1.00	-	98,832	600		0.00	100.00%	0.26%
	Safety Valves (Pressure)		SCE	-	-	-		0	-	100.00%	0.00%
	Shutoff Valves		SCE	-	-	-	-		-	100.00%	0.00%
	Combustion Engine, Rotating Eq. & Machinery										
	After Cooler Fan A		BCE	-	-	-	-		-	100.00%	0.00%
	After Cooler Fan B		BCE	-	-	-	-		-	100.00%	0.00%
	After Cooler Fan C		BCE	-	-	-	-		-	100.00%	0.00%
	Air Compressor A		BCE	-	-	-	-		-	100.00%	0.00%
	Air Compressor B		BCE	-	-	-	-		-	100.00%	0.00%
	DEG		BCE						-	100.00%	0.00%
	Gas Compressor A		BCE	-	-	-	-		-	100.00%	0.00%
	Gas Compressor B		BCE	-	-	-	-		-	100.00%	0.00%
	Gas Compressor C		BCE	-	-	-	-		-	100.00%	0.00%
	Gas Turbine A		BCE	-	-	-	-		-	100.00%	0.00%
	Gas Turbine B		BCE	-	-	-	-		-	100.00%	0.00%
	Gas Turbine C		BCE	-	-	-	-		-	100.00%	0.00%
	GEG A		BCE	-	-	-	-		-	100.00%	0.00%
	GEG B		BCE	-	-	-	-		-	100.00%	0.00%
	Lube Oil Cooler Fan A		BCE	-	-	-	-		-	100.00%	0.00%
	Lube Oil Cooler Fan B		BCE	-	-	-	-		-	100.00%	0.00%
	Lube Oil Cooler Fan C		BCE	-	-	-	-		-	100.00%	0.00%
	Mainpump WTP		BCE	-	-	-	-		-	100.00%	0.00%
	Instruments & Control										
	Analyzer (Dew Point)		BCE	-	-	-	-		-	100.00%	0.00%
	Analyzer (Gas)		BCE	-	-	-	-		-	100.00%	0.00%
	Analyzer (H2O)		BCE	-	-	-	-		-	100.00%	0.00%
	Analyzer (H2S)		BCE	-	-	-	-		-	100.00%	0.00%
	Analyzer (Total Sulfur)		BCE	-	-	-	-		-	100.00%	0.00%
	DCS (Distributed Control System)		BCE	-	-	-	-		-	100.00%	0.00%
	Flow Com		BCE	-	-	-	-		-	100.00%	0.00%
	Gas Chromatograph		BCE	-	-	-	-		-	100.00%	0.00%
	Indicator (Pressure)		BCE	4.00	-	395,328	600	0	0.01	100.00%	1.04%

Category	Asset	Tag Number	Classification	Number of Asset	Number of Cummulative Failures	Aggregate Time in Service	Operating (Mission) Time	Failure Rate	Weight Factor	Population NCr Reliability Estimation	NCr Reliability
			SCE / BCE	(Unit)	(N - Failures)	(Hours)	(Hours)	(Failure/Hours)		%	100.00%
	Indicator (Temperature)		BCE	1.00	-	52,632	600	0	0.00	100.00%	0.26%
	Meter (Orrifice)		BCE	-	-	-	-		-	100.00%	0.00%
	Meter (Rotary)		BCE	-	-	-	-		-	100.00%	0.00%
	Meter (Rumah Tangga)		BCE	-	-	-	-		-	100.00%	0.00%
	Meter (Turbine)		BCE	-	-	-	-		-	100.00%	0.00%
	Meter (Ultrasonic)		BCE	-	-	-	-		-	100.00%	0.00%
	PLC (Programmable Logic Control)		BCE	-	-	-	-		-	100.00%	0.00%
	Regulator		BCE	-	-	-	-		-	100.00%	0.00%
	Transmitter (DP)		BCE	-	-	-	-		-	100.00%	0.00%
	Transmitter (Level)		BCE	-	-	-	-		-	100.00%	0.00%
	Transmitter (Pressure)		BCE	1.00	-	98,832	600	0	0.00	100.00%	0.26%
	Transmitter (Temperature)		BCE	1.00	-	98,832	600	0	0.00	100.00%	0.26%
	Electrical										
	Automatic Transfer Switch (ATS)		BCE	1.00	-	98,832	600		0.00	100.00%	0.26%
	Battery Bank GEG & DEG		BCE	-					-	100.00%	0.00%
	Battery Bank GTCP		BCE	-					-	100.00%	0.00%
	Electric Heater (Fuel Gas Conditioning Unit)		BCE	-					-	100.00%	0.00%
	Lightning Protection System (LPS)		BCE	1.00		98,832	600	0	0.00	100.00%	0.26%
	Loadbank		BCE	-					-	100.00%	0.00%
	Switchgear		BCE	-					-	100.00%	0.00%
	Transformator (MCC Heater Panel)		BCE	-					-	100.00%	0.00%
	UPS		BCE						-	100.00%	0.00%
	UPS Battery		BCE	204.00		2,161,728	600	0	0.53	100.00%	53.04%
	Pressurise Equipment & Tank										
	Air Dryer Package		BCE	-	-	-	-		-	100.00%	0.00%
	Air Utility Tank		BCE	-	-	-	-		-	100.00%	0.00%
	Fuel Tank		BCE	1.00	-	98,808	600	0	0.00	100.00%	0.26%
	Gas Filter Separator		BCE	-	-	-	-		-	100.00%	0.00%
	IFWBH		BCE	-	-	-	-		-	100.00%	0.00%
	Instrument Air Receiver Tank		BCE	-	-	-	-		-	100.00%	0.00%
	Odorizer		BCE	-	-	-	-		-	100.00%	0.00%
	Scrubber		BCE	-	-	-	-		-	100.00%	0.00%
	Slug Catcher		BCE	-	-	-	-		-	100.00%	0.00%
	Sump Tank		BCE	-	-	-	-		-	100.00%	0.00%
	Fire & Gas - Safety										
	BFAP (Building Fire Alarm Panel)		SCE	-	-	-	-		-	100.00%	0.00%
	CO2 Fire Suppression (Enclosure GT)		SCE	-	-	-	-		-	100.00%	0.00%
	Fire Hydrant (Hydrant Pillar, Hose, etc)		SCE	-	-	-	-		-	100.00%	0.00%
	Fire Monitor		SCE	-	-	-	-		-	100.00%	0.00%
	Fire Pump (Diesel)		SCE	-	-	-	-		-	100.00%	0.00%
	Fire Pump (Electric)		SCE	-	-	-	-		-	100.00%	0.00%
	Fire Pump (Jockey)		SCE	-	-	-	-		-	100.00%	0.00%
	Flame Detector (UV/IR)		SCE	-	-	-	-		-	100.00%	0.00%

Category	Asset	Tag Number	Classification	Number of Asset	Number of Cummulative Failures	Aggregate Time in Service	Operating (Mission) Time	Failure Rate	Weight Factor	Population NCr Reliability Estimation	NCr Reliability
			SCE / BCE	(Unit)	(N - Failures)	(Hours)	(Hours)	(Failure/Hours)		%	100.00%
	FM 200 Fire Suppression		SCE	5.00	-	56,280	600	0	0.01	100.00%	1.30%
	Fusible Loop (Aftercooler)		SCE						-	100.00%	0.00%
	Gas Detector		SCE	2.00	-	25,920	600	0	0.01	100.00%	0.52%
	Heat Detector		SCE	13.00	-	1,284,806	600	0	0.03	100.00%	3.38%
	PA/GA (Public Address / General Alarm)		SCE						-	100.00%	0.00%
	SFAP (Station Fire Alarm Panel)		SCE	1.00	-	18,648	600	0	0.00	100.00%	0.26%
	Smoke Detector		SCE	12.00	1	1,185,966	600	8.43194E-07	0.03	99.95%	3.12%
Jaringan	Pipelines										
	Steel Pipe 36 Inch		BCE	97.30	-	98,832	600		0.25	100.00%	25.30%
	Steel Pipe 12 Inch		BCE	0.30	-	64,176	600		0.00	100.00%	0.08%
	Steel/PE Pipe .....Inch/ .....mm		BCE	-	-	-	-		-	100.00%	0.00%
	Steel/PE Pipe .....Inch/ .....mm		BCE	-	-	-	-		-	100.00%	0.00%
	Steel/PE Pipe .....Inch/ .....mm		BCE	-	-	-	-		-	100.00%	0.00%
	Steel/PE Pipe .....Inch/ .....mm		BCE	-	-	-	-		-	100.00%	0.00%
	Steel/PE Pipe .....Inch/ .....mm		BCE	-	-	-	-		-	100.00%	0.00%
	Steel/PE Pipe .....Inch/ .....mm		BCE	-	-	-	-		-	100.00%	0.00%
	Steel/PE Pipe .....Inch/ .....mm		BCE	-	-	-	-		-	100.00%	0.00%
	Steel/PE Pipe .....Inch/ .....mm		BCE	-	-	-	-		-	100.00%	0.00%
	Steel/PE Pipe .....Inch/ .....mm		BCE	-	-	-	-		-	100.00%	0.00%
	Steel/PE Pipe .....Inch/ .....mm		BCE	-	-	-	-		-	100.00%	0.00%
	Steel/PE Pipe .....Inch/ .....mm		BCE	-	-	-	-		-	100.00%	0.00%
	Steel/PE Pipe .....Inch/ .....mm		BCE	-	-	-	-		-	100.00%	0.00%
	Steel/PE Pipe .....Inch/ .....mm		BCE	-	-	-	-		-	100.00%	0.00%
	Pig Launcher		BCE	1.00	-	98,832	600		0.00	100.00%	0.26%
	Pig Receiver		BCE	-	-	-	-		-	100.00%	0.00%
	Valves										
	Sectional Valves		BCE	4.00	-	98,832	600		0.01	100.00%	1.04%
	Branch Valves		BCE	1.00	-	98,832	600		0.00	100.00%	0.26%
	Line Valves		BCE	-	-	-	-		-	100.00%	0.00%
	Venting Valves		BCE	-	-	-	-		-	100.00%	0.00%
	Proteksi Katodik										
	Transformer Rectifier		BCE	-	-	-	-		-	100.00%	0.00%
	Sacrificial Anode		BCE	-	-	-	-		-	100.00%	0.00%
	Test Point		BCE	-	-	-	-		-	100.00%	0.00%
	Junction Box		BCE	-	-	-	-		-	100.00%	0.00%

Category	Asset	Tag Number	Classification	Number of Asset	Number of Cummulative Failures	Aggregate Time in Service	Operating (Mission) Time	Failure Rate	Weight Factor	Population NCr Reliability Estimation	NCr Reliability
			SCE / BCE	(Unit)	(N - Failures)	(Hours)	(Hours)	(Failure/Hours)		%	100.00%
	Others										
	Jembatan		BCE	-	-	-	-		-	100.00%	0.00%

LAMPIRAN 17.2.T.6 FORMULIR RELIABILITY NON CRITICAL EQUIPMENT TSJ - SUMATERA SELATAN - STASIUN TALANG DUKU

	Total Jumlah Aset	460.12									
Category	**Asset**	**Tag Number**	**Classification**	**Number of Asset**	**Number of Cummulative Failures**	**Aggregate Time in Service**	**Operating (Mission) Time**	**Failure Rate**	**Weight Factor**	**Population NCr Reliability Estimation**	**NCr Reliability**
			SCE / BCE	**(Unit)**	**(N - Failures)**	**(Hours)**	**(Hours)**	**(Failure/Hours)**			**99.94%**
Fasilitas	Valves										
	Ball Valves		BCE	57	6	3,656,464	600	1.64093E-06	0.12	99.90%	12.38%
	Gate Valves		BCE	8.00	-	513,408	600	0	0.02	100.00%	1.74%
	Globe Valves		BCE	10.00	-	641,760	600	0	0.02	100.00%	2.17%
	Plug Valves		BCE	7.00	-	449,232	600	0	0.02	100.00%	1.52%
	P/F/L Control Valves (12-PCV-1301A)		BCE						-	100.00%	0.00%
	P/F/L Control Valves (12-PCV-1301B)		BCE						-	100.00%	0.00%
	Relief Valves		SCE	-					-	100.00%	0.00%
	Safety Valves (Pressure)		SCE						-	100.00%	0.00%
	Shutdown Valves		SCE						-	100.00%	0.00%
	Combustion Engine, Rotating Eq. & Machinery										
	After Cooler Fan A		BCE	-	-	-	-		-	100.00%	0.00%
	After Cooler Fan B		BCE	-	-	-	-		-	100.00%	0.00%
	After Cooler Fan C		BCE	-	-	-	-		-	100.00%	0.00%
	Air Compressor A		BCE	-	-	-	-		-	100.00%	0.00%
	Air Compressor B		BCE	-	-	-	-		-	100.00%	0.00%
	DEG		BCE						-	100.00%	0.00%
	Gas Compressor A		BCE	-	-	-	-		-	100.00%	0.00%
	Gas Compressor B		BCE	-	-	-	-		-	100.00%	0.00%
	Gas Compressor C		BCE	-	-	-	-		-	100.00%	0.00%
	Gas Turbine A		BCE	-	-	-	-		-	100.00%	0.00%
	Gas Turbine B		BCE	-	-	-	-		-	100.00%	0.00%
	Gas Turbine C		BCE	-	-	-	-		-	100.00%	0.00%
	GEG A		BCE	-	-	-	-		-	100.00%	0.00%
	GEG B		BCE	-	-	-	-		-	100.00%	0.00%
	Lube Oil Cooler Fan A		BCE	-	-	-	-		-	100.00%	0.00%
	Lube Oil Cooler Fan B		BCE	-	-	-	-		-	100.00%	0.00%
	Lube Oil Cooler Fan C		BCE	-	-	-	-		-	100.00%	0.00%
	Mainpump WTP		BCE	-	-	-	-		-	100.00%	0.00%
				-							
	Instruments & Control			-							
	Analyzer (Dew Point)		BCE	-	-	-	-		-	100.00%	0.00%
	Analyzer (Gas)		BCE	-	-	-	-		-	100.00%	0.00%
	Analyzer (H2O)		BCE	-	-	-	-		-	100.00%	0.00%
	Analyzer (H2S)		BCE	-	-	-	-		-	100.00%	0.00%
	Analyzer (Total Sulfur)		BCE	-	-	-	-		-	100.00%	0.00%
	DCS (Distributed Control System)		BCE	-	-	-	-		-	100.00%	0.00%
	Flow Com		BCE						-	100.00%	0.00%

Category	Asset	Tag Number	Classification	Number of Asset	Number of Cummulative Failures	Aggregate Time in Service	Operating (Mission) Time	Failure Rate	Weight Factor	Population NCr Reliability Estimation	NCr Reliability
			SCE / BCE	(Unit)	(N - Failures)	(Hours)	(Hours)	(Failure/Hours)			99.94%
	Gas Chromatograph		BCE	1.00	9	29,767	600	0.000302348	0.00	83.41%	0.18%
	Indicator (Pressure)		BCE	12.00	1	642,474	600	1.55648E-06	0.03	99.91%	2.61%
	Indicator (Temperature)		BCE	4.00	-	123,216	600	0	0.01	100.00%	0.87%
	Meter (Orrifice)		BCE	-	-	-	-		-	100.00%	0.00%
	Meter (Rotary)		BCE	-	-	-	-		-	100.00%	0.00%
	Meter (Rumah Tangga)		BCE	-	-	-	-		-	100.00%	0.00%
	Meter (Turbine)		BCE						-	100.00%	0.00%
	Meter (Ultrasonic)		BCE						-	100.00%	0.00%
	PLC (Programmable Logic Control)		BCE						-	100.00%	0.00%
	Regulator		BCE	-	-	-	-		-	100.00%	0.00%
	Transmitter (DP)		BCE	-	-	-	-		-	100.00%	0.00%
	Transmitter (Level)		BCE	-	-	-	-		-	100.00%	0.00%
	Transmitter (Pressure)		BCE	2.00	-	129,792	600	0	0.00	100.00%	0.43%
	Transmitter (Temperature)		BCE	2.00	-	129,792	600	0	0.00	100.00%	0.43%
				-							
	Electrical			-							
	Automatic Transfer Switch (ATS)		BCE	1.00	1	64,176	600	1.55821E-05	0.00	99.07%	0.22%
	Battery Bank GEG & DEG		BCE						-	100.00%	0.00%
	Battery Bank GTCP		BCE						-	100.00%	0.00%
	Electric Heater (Fuel Gas Conditioning Unit)		BCE						-	100.00%	0.00%
	Lightning Protection System (LPS)		BCE	1.00	-	64,176	600	0	0.00	100.00%	0.22%
	Loadbank		BCE						-	100.00%	0.00%
	Switchgear		BCE						-	100.00%	0.00%
	Transformator (MCC Heater Panel)		BCE						-	100.00%	0.00%
	UPS		BCE						-	100.00%	0.00%
	UPS Battery		BCE	210.00	-	9,601,200	600	0	0.46	100.00%	45.64%
				-							
	Pressurise Equipment & Tank			-							
	Air Dryer Package		BCE	-	-	-	-		-	100.00%	0.00%
	Air Utility Tank		BCE	-	-	-	-		-	100.00%	0.00%
	Fuel Tank		BCE	1.00	-	64,992	600	0	0.00	100.00%	0.22%
	Gas Filter Separator		BCE						-	100.00%	0.00%
	IFWBH		BCE						-	100.00%	0.00%
	Instrument Air Receiver Tank		BCE						-	100.00%	0.00%
	Odorizer		BCE	1.00	-	64,992	600	0	0.00	100.00%	0.22%
	Scrubber		BCE	-	-	-	-		-	100.00%	0.00%
	Slug Catcher		BCE	-	-	-	-		-	100.00%	0.00%
	Sump Tank		BCE	-	-	-	-		-	100.00%	0.00%
				-							
	Fire & Gas - Safety			-							
	BFAP (Building Fire Alarm Panel)		SCE	-	-	-	-		-	100.00%	0.00%
	CO2 Fire Suppression (Enclosure GT)		SCE	-	-	-	-		-	100.00%	0.00%
	Fire Hydrant (Hydrant Pillar, Hose, etc)		SCE	-	-	-	-		-	100.00%	0.00%
	Fire Monitor		SCE	-	-	-	-		-	100.00%	0.00%

Category	Asset	Tag Number	Classification	Number of Asset	Number of Cummulative Failures	Aggregate Time in Service	Operating (Mission) Time	Failure Rate	Weight Factor	Population NCr Reliability Estimation	NCr Reliability
			SCE / BCE	(Unit)	(N - Failures)	(Hours)	(Hours)	(Failure/Hours)			99.94%
	Fire Pump (Diesel)		SCE	-	-	-	-		-	100.00%	0.00%
	Fire Pump (Electric)		SCE	-	-	-	-		-	100.00%	0.00%
	Fire Pump (Jockey)		SCE	-	-	-	-		-	100.00%	0.00%
	Flame Detector (UV/IR)		SCE	2.00	1	128,352	600	7.79107E-06	0.00	99.53%	0.43%
	FM 200 Fire Suppression		SCE	3.00	-	192,528	600	0	0.01	100.00%	0.65%
	Fusible Loop (Aftercooler)		SCE						-	100.00%	0.00%
	Gas Detector		SCE	5.00	3	317,434	600	9.45078E-06	0.01	99.43%	1.08%
	Heat Detector		SCE	11.00	-	655,550	600	0	0.02	100.00%	2.39%
	PA/GA (Public Address / General Alarm)		SCE						-	100.00%	0.00%
	SFAP (Station Fire Alarm Panel)		SCE	1.00	-	64,176	600	0	0.00	100.00%	0.22%
	Smoke Detector		SCE	11.00	1	661,430	600	1.51188E-06	0.02	99.91%	2.39%
				-							
Jaringan	Pipelines			-							
	Steel/PE Pipe ...36..Inch/ .....mm		BCE	98.00	-	98,160	600	0	0.21	100.00%	21.30%
	Steel/PE Pipe ..28...Inch/ .....mm		BCE	4.12	-	91,248	600	0	0.01	100.00%	0.90%
	Steel/PE Pipe .....Inch/ .....mm		BCE	-	-	-	-		-	100.00%	0.00%
	Steel/PE Pipe .....Inch/ .....mm		BCE	-	-	-	-		-	100.00%	0.00%
	Steel/PE Pipe .....Inch/ .....mm		BCE	-	-	-	-		-	100.00%	0.00%
	Steel/PE Pipe .....Inch/ .....mm		BCE	-	-	-	-		-	100.00%	0.00%
	Steel/PE Pipe .....Inch/ .....mm		BCE	-	-	-	-		-	100.00%	0.00%
	Steel/PE Pipe .....Inch/ .....mm		BCE	-	-	-	-		-	100.00%	0.00%
	Steel/PE Pipe .....Inch/ .....mm		BCE	-	-	-	-		-	100.00%	0.00%
	Steel/PE Pipe .....Inch/ .....mm		BCE	-	-	-	-		-	100.00%	0.00%
	Steel/PE Pipe .....Inch/ .....mm		BCE	-	-	-	-		-	100.00%	0.00%
	Steel/PE Pipe .....Inch/ .....mm		BCE	-	-	-	-		-	100.00%	0.00%
	Steel/PE Pipe .....Inch/ .....mm		BCE	-	-	-	-		-	100.00%	0.00%
	Steel/PE Pipe .....Inch/ .....mm		BCE	-	-	-	-		-	100.00%	0.00%
	Steel/PE Pipe .....Inch/ .....mm		BCE	-	-	-	-		-	100.00%	0.00%
	Pig Launcher		BCE	-	-	-	-		-	100.00%	0.00%
	Pig Receiver		BCE	-	-	-	-		-	100.00%	0.00%
				-							
	Valves			-							
	Sectional Valves		BCE	3.00	-	98,160	600		0.01	100.00%	0.65%
	Branch Valves		BCE	-	-	-	-		-	100.00%	0.00%
	Line Valves		BCE	-	-	-	-		-	100.00%	0.00%
	Venting Valves		BCE	-	-	-	-		-	100.00%	0.00%
				-							
	Proteksi Katodik			-							

Category	Asset	Tag Number	Classification	Number of Asset	Number of Cummulative Failures	Aggregate Time in Service	Operating (Mission) Time	Failure Rate	Weight Factor	Population NCr Reliability Estimation	NCr Reliability
			SCE / BCE	(Unit)	(N - Failures)	(Hours)	(Hours)	(Failure/Hours)			99.94%
	Transformer Rectifier		BCE	1.00	-	98,160	600		0.00	100.00%	0.22%
	Sacrificial Anode		BCE	-	-	-	-		-	100.00%	0.00%
	Test Point		BCE	-	-	-	-		-	100.00%	0.00%
	Junction Box		BCE	4.00	-	98,160	600		0.01	100.00%	0.87%
				-							
	Others			-							
	Jembatan		BCE	-	-	-	-		-	100.00%	

LAMPIRAN 17.2.T.7 FORMULIR RELIABILITY NON CRITICAL EQUIPMENT TSJ - SUMATERA SELATAN - SPG PAGARDEWA

	Total Jumlah Aset	218.00									
Category	**Asset**	**Tag Number**	**Classification**	**Number of Asset**	**Number of Cummulative Failures**	**Aggregate Time in Service**	**Operating (Mission) Time**	**Failure Rate**	**Weight Factor**	**Population NCr Reliability Estimation**	**NCr Reliability**
			SCE / BCE	**(Unit)**	**(N - Failures)**	**(Hours)**	**(Hours)**	**(Failure/Hours)**			**96.24%**
Fasilitas	Valves										
	Ball Valves		BCE	30	2	2,999,280	600	6.66827E-07	0.14	99.96%	13.76%
	Blowdown Valves		BCE			-			-	100.00%	0.00%
	Check Valves		BCE			-			-	100.00%	0.00%
	Hand Control Valves		BCE	2.00	-	1,881,556	600	0	0.01	100.00%	0.92%
	P/F/L Control Valves		BCE	-	-	-	-		-	100.00%	0.00%
	Relief Valves		SCE	-	-	-	-		-	100.00%	0.00%
	Safety Valves (Pressure)		SCE						-	100.00%	0.00%
	Shutdown Valves		SCE					0	-	100.00%	0.00%
	Shutoff Valves		SCE	-	-	-	-		-	100.00%	0.00%
	Combustion Engine, Rotating Eq. & Machinery										
	After Cooler Fan A		BCE	-	-	-	-		-	100.00%	0.00%
	After Cooler Fan B		BCE	-	-	-	-		-	100.00%	0.00%
	After Cooler Fan C		BCE	-	-	-	-		-	100.00%	0.00%
	Air Compressor A		BCE	-	-	-	-		-	100.00%	0.00%
	Air Compressor B		BCE	-	-	-	-		-	100.00%	0.00%
	DEG		BCE	-	-	-	-		-	100.00%	0.00%
	Gas Compressor A		BCE	-	-	-	-		-	100.00%	0.00%
	Gas Compressor B		BCE	-	-	-	-		-	100.00%	0.00%
	Gas Compressor C		BCE	-	-	-	-		-	100.00%	0.00%
	Gas Turbine A		BCE	-	-	-	-		-	100.00%	0.00%
	Gas Turbine B		BCE	-	-	-	-		-	100.00%	0.00%
	Gas Turbine C		BCE	-	-	-	-		-	100.00%	0.00%
	GEG A		BCE	-	-	-	-		-	100.00%	0.00%
	GEG B		BCE	-	-	-	-		-	100.00%	0.00%
	Lube Oil Cooler Fan A		BCE	-	-	-	-		-	100.00%	0.00%
	Lube Oil Cooler Fan B		BCE	-	-	-	-		-	100.00%	0.00%
	Lube Oil Cooler Fan C		BCE	-	-	-	-		-	100.00%	0.00%
	Mainpump WTP		BCE	-	-	-	-		-	100.00%	0.00%
				-							
	Instruments & Control			-							
	Analyzer (Dew Point)		BCE	1.00	1	97,776	600	1.02275E-05	0.00	99.39%	0.46%
	Analyzer (Gas)		BCE			-			-	100.00%	0.00%
	Analyzer (H2O)		BCE			-			-	100.00%	0.00%
	Analyzer (H2S)		BCE			-			-	100.00%	0.00%
	Analyzer (Total Sulfur)		BCE	1.00	5	97,776	600	5.11373E-05	0.00	96.98%	0.44%
	DCS (Distributed Control System)		BCE	-	-	-	-		-	100.00%	0.00%
	Flow Com		BCE	-	-	-	-		-	100.00%	0.00%
	Gas Chromatograph		BCE	-	-	-	-		-	100.00%	0.00%
	Indicator (Pressure)		BCE	-	-	-	-		-	100.00%	0.00%

Category	Asset	Tag Number	Classification	Number of Asset	Number of Cummulative Failures	Aggregate Time in Service	Operating (Mission) Time	Failure Rate	Weight Factor	Population NCr Reliability Estimation	NCr Reliability
			SCE / BCE	(Unit)	(N - Failures)	(Hours)	(Hours)	(Failure/Hours)			96.24%
	Indicator (Temperature)		BCE	-	-	-	-		-	100.00%	0.00%
	Meter (Orrifice)		BCE	-	-	-	-		-	100.00%	0.00%
	Meter (Rotary)		BCE	-	-	-	-		-	100.00%	0.00%
	Meter (Rumah Tangga)		BCE	-	-	-	-		-	100.00%	0.00%
	Meter (Turbine)		BCE	-	-	-	-		-	100.00%	0.00%
	Meter (Ultrasonic)		BCE	-	-	-	-		-	100.00%	0.00%
	PLC (Programmable Logic Control)		BCE						-	100.00%	0.00%
	Regulator		BCE	-	-	-	-		-	100.00%	0.00%
	Transmitter (DP)		BCE	-	-	-	-		-	100.00%	0.00%
	Transmitter (Level)		BCE	-	-	-	-		-	100.00%	0.00%
	Transmitter (Pressure)		BCE	1.00	-	99,984	600	0	0.00	100.00%	0.46%
	Transmitter (Temperature)		BCE	1.00	-	99,984	600	0	0.00	100.00%	0.46%
				-							
	Electrical			-							
	Automatic Transfer Switch (ATS)		BCE	1.00	-	99,984	600		0.00	100.00%	0.46%
	Battery Bank GEG & DEG		BCE	1.00	1	32,064	600	3.11876E-05	0.00	98.15%	0.45%
	Battery Bank GTCP		BCE	-					-	100.00%	0.00%
	Electric Heater (Fuel Gas Conditioning Unit)		BCE	-					-	100.00%	0.00%
	Lightning Protection System (LPS)		BCE	1.00	-	99,984	600	0	0.00	100.00%	0.46%
	Loadbank		BCE	-					-	100.00%	0.00%
	Switchgear		BCE	-					-	100.00%	0.00%
	Transformator (MCC Heater Panel)		BCE	-					-	100.00%	0.00%
	UPS		BCE					0	-	100.00%	0.00%
	UPS Rack A		SCE	68.00	1	691,968	600	1.44515E-06	0.31	99.91%	31.17%
	UPS Rack A		SCE	68.00	2	6,798,912	600	2.94165E-07	0.31	99.98%	31.19%
	Pressurise Equipment & Tank			-		-					
	Air Dryer Package		BCE	-	-	-			-	100.00%	0.00%
	Air Utility Tank		BCE	-	-	-			-	100.00%	0.00%
	Fuel Tank		BCE	1.00	-	99,984	600	0	0.00	100.00%	0.46%
	Gas Filter Separator		BCE	-	-	-	-		-	100.00%	0.00%
	IFWBH		BCE	-	-	-	-		-	100.00%	0.00%
	Instrument Air Receiver Tank		BCE	-	-	-	-		-	100.00%	0.00%
	Odorizer		BCE	-	-	-	-		-	100.00%	0.00%
	Scrubber		BCE	-	-	-	-		-	100.00%	0.00%
	Slug Catcher		BCE	-	-	-	-		-	100.00%	0.00%
	Sump Tank		BCE	-	-	-	-		-	100.00%	0.00%
				-							
	Fire & Gas - Safety			-							
	BFAP (Building Fire Alarm Panel)		SCE	-	-	-	-		-	100.00%	0.00%
	CO2 Fire Suppression (Enclosure GT)		SCE	-	-	-	-		-	100.00%	0.00%
	Fire Hydrant (Hydrant Pillar, Hose, etc)		SCE	-	-	-	-		-	100.00%	0.00%
	Fire Monitor		SCE	-	-	-	-		-	100.00%	0.00%
	Fire Pump (Diesel)		SCE	-	-	-	-		-	100.00%	0.00%
	Fire Pump (Electric)		SCE	-	-	-	-		-	100.00%	0.00%
	Fire Pump (Jockey)		SCE	-	-	-	-		-	100.00%	0.00%

Category	Asset	Tag Number	Classification	Number of Asset	Number of Cummulative Failures	Aggregate Time in Service	Operating (Mission) Time	Failure Rate	Weight Factor	Population NCr Reliability Estimation	NCr Reliability
			SCE / BCE	(Unit)	(N - Failures)	(Hours)	(Hours)	(Failure/Hours)			96.24%
	Flame Detector (UV/IR)		SCE	-	-	-	-		-	100.00%	0.00%
	FM 200 Fire Suppression		SCE	5.00	-	79,920	600	0	0.02	100.00%	2.29%
	Fusible Loop (Aftercooler)		SCE			-		0	-	100.00%	0.00%
	Gas Detector	Area launcher	SCE	1.00	1	32,064	600	3.11876E-05	0.00	98.15%	0.45%
		Area ball valve		1.00	-	15,792	600	0	0.00	100.00%	0.46%
	Heat Detector		SCE	13.00	1	1,299,792	600	7.69354E-07	0.06	99.95%	5.96%
	PA/GA (Public Address / General Alarm)		SCE			-			-	100.00%	0.00%
	SFAP (Station Fire Alarm Panel)		SCE	1.00	2	38,616	600	5.1792E-05	0.00	96.94%	0.44%
	Smoke Detector		SCE	12	1	1,199,808	600	8.33467E-07	0.06	99.95%	5.50%
				-							
Jaringan	Pipelines			-							
	Steel/PE Pipe .....Inch/ .....mm		BCE	-	-	-	-		-	100.00%	0.00%
	Steel/PE Pipe .....Inch/ .....mm		BCE	-	-	-	-		-	100.00%	0.00%
	Steel/PE Pipe .....Inch/ .....mm		BCE	-	-	-	-		-	100.00%	0.00%
	Steel/PE Pipe .....Inch/ .....mm		BCE	-	-	-	-		-	100.00%	0.00%
	Steel/PE Pipe .....Inch/ .....mm		BCE	-	-	-	-		-	100.00%	0.00%
	Steel/PE Pipe .....Inch/ .....mm		BCE	-	-	-	-		-	100.00%	0.00%
	Steel/PE Pipe .....Inch/ .....mm		BCE	-	-	-	-		-	100.00%	0.00%
	Steel/PE Pipe .....Inch/ .....mm		BCE	-	-	-	-		-	100.00%	0.00%
	Steel/PE Pipe .....Inch/ .....mm		BCE	-	-	-	-		-	100.00%	0.00%
	Steel/PE Pipe .....Inch/ .....mm		BCE	-	-	-	-		-	100.00%	0.00%
	Steel/PE Pipe .....Inch/ .....mm		BCE	-	-	-	-		-	100.00%	0.00%
	Steel/PE Pipe .....Inch/ .....mm		BCE	-	-	-	-		-	100.00%	0.00%
	Steel/PE Pipe .....Inch/ .....mm		BCE	-	-	-	-		-	100.00%	0.00%
	Steel/PE Pipe .....Inch/ .....mm		BCE	-	-	-	-		-	100.00%	0.00%
	Steel/PE Pipe .....Inch/ .....mm		BCE	-	-	-	-		-	100.00%	0.00%
	Pig Launcher		BCE	1.00	-	99,984	600	0	0.00	100.00%	0.46%
	Pig Receiver		BCE	-	-	-	-		-	100.00%	0.00%
				-							
	Valves			-							
	Sectional Valves		BCE	-	-	-	-		-	100.00%	0.00%
	Branch Valves		BCE	-	-	-	-		-	100.00%	0.00%
	Line Valves		BCE	-	-	-	-		-	100.00%	0.00%
	Venting Valves		BCE	-	-	-	-		-	100.00%	0.00%
				-							
	Proteksi Katodik			-							
	Transformer Rectifier		BCE	-	-	-	-		-	100.00%	0.00%
	Sacrificial Anode		BCE	-	-	-	-		-	100.00%	0.00%
	Test Point		BCE	-	-	-	-		-	100.00%	0.00%

Category	Asset	Tag Number	Classification	Number of Asset	Number of Cummulative Failures	Aggregate Time in Service	Operating (Mission) Time	Failure Rate	Weight Factor	Population NCr Reliability Estimation	NCr Reliability
		-	SCE / BCE	(Unit)	(N - Failures)	(Hours)	(Hours)	(Failure/Hours)			96.24%
	Junction Box		BCE	-	-	-	-		-	100.00%	0.00%
				-							
	Others			-							
	Jembatan		BCE	-	-	-	-		-	100.00%	0.00%

LAMPIRAN 17.2.T.8 FORMULIR RELIABILITY NON CRITICAL EQUIPMENT TSJ - SUMATERA SELATAN - STASIUN KOMPRESOR PAGARDEWA

	Total Jumlah Aset	1,670.00									
Category	**Asset**	**Tag Number**	**Classification**	**Number of Asset**	**Number of Cummulative Failures**	**Aggregate Time in Service**	**Operating (Mission) Time**	**Failure Rate**	**Weight Factor**	**Population NCr Reliability Estimation**	**NCr Reliability**
			SCE / BCE	**(Unit)**	**(N - Failures)**	**(Hours)**	**(Hours)**	**(Failure/Hours)**			**99.93%**
Fasilitas	Valves										
	Ball Valves		BCE	618	-	57,207,024	600	0	0.37	100.00%	37.01%
	Blowdown Valves	see comments	BCE	7.00	3	647,976	600	4.6298E-06	0.00	99.72%	0.42%
	Check Valves		BCE			-	-		-	100.00%	0.00%
	Hand Control Valves		BCE			-	-		-	100.00%	0.00%
	P/F/L Control Valves	see comments	BCE	12.00	1	1,110,816	600	9.00239E-07	0.01	99.95%	0.72%
	Relief Valves		SCE			-			-	100.00%	0.00%
	Safety Valves (Pressure)	see comments	SCE	23.00	-	2,129,064	600	0	0.01	100.00%	1.38%
	Shutdown Valves	see comments	SCE	30.00	6	2,777,040	600	2.16057E-06	0.02	99.87%	1.79%
	Shutoff Valves		SCE			-	-		-	100.00%	0.00%
	Combustion Engine, Rotating Eq. & Machinery										
	After Cooler Fan A	20-E-1110A	BCE	2.00	1	48,064	574	2.08056E-05	0.00	98.81%	0.12%
	After Cooler Fan B	20-E-1110B	BCE	2.00	2	37,584	0	5.32141E-05	0.00	100.00%	0.12%
	After Cooler Fan C	20-E-1110C	BCE	2.00	-	28,355	332	0	0.00	100.00%	0.12%
	Air Compressor A	20-C-2310A	BCE	1.00	-	43,176	244	0	0.00	100.00%	0.06%
	Air Compressor B	20-C-2310B	BCE	1.00	8	40,637	192	0.000196865	0.00	96.29%	0.06%
	DEG	20-DE-5020	BCE	1.00	-	1,112.7	1	0	0.00	100.00%	0.06%
	Gas Compressor A	20-C-1210A	BCE	1.00	-	2,008	574	0	0.00	100.00%	0.06%
	Gas Compressor B	20-C-1210B	BCE	1.00	-	37,584	0	0	0.00	100.00%	0.06%
	Gas Compressor C	20-C-1210C	BCE	1.00	1	1,672	332	0.000598086	0.00	81.99%	0.05%
	Gas Turbine A	20-GT-1210A	BCE	1.00	-	8,916	574	0	0.00	100.00%	0.06%
	Gas Turbine B	20-GT-1210B	BCE	1.00	4	15991	0	0.000250141	0.00	100.00%	0.06%
	Gas Turbine C	20-GT-1210C	BCE	1.00	1	2,318	332	0.000431406	0.00	86.66%	0.05%
	GEG A	20-GE-5010A	BCE	1.00	7	44,379	438	0.000157732	0.00	93.32%	0.06%
	GEG B	20-GE-5010B	BCE	1.00	8	51,010	139	0.000156832	0.00	97.84%	0.06%
	Lube Oil Cooler Fan A	20-E-	BCE	2.00	1	48,638	574	2.05601E-05	0.00	98.83%	0.12%
	Lube Oil Cooler Fan B	20-E-	BCE	2.00	2	37,584	0	5.32141E-05	0.00	100.00%	0.12%
	Lube Oil Cooler Fan C	20-E-	BCE	2.00	-	28,355	332	0	0.00	100.00%	0.12%
	Mainpump WTP	see comments	BCE	6.00	6	555,408	600	1.08029E-05	0.00	99.35%	0.36%
				-							
	Instruments & Control			-							
	Analyzer (Dew Point)		BCE	-					-	100.00%	0.00%
	Analyzer (Gas)		BCE	-					-	100.00%	0.00%
	Analyzer (H2O)		BCE	-					-	100.00%	0.00%
	Analyzer (H2S)		BCE	-					-	100.00%	0.00%
	Analyzer (Total Sulfur)		BCE	-					-	100.00%	0.00%
	DCS (Distributed Control System)		BCE	1.00	7	46,284	600	0.00015124	0.00	91.33%	0.05%
	Flow Com	see comments	BCE	4.00	-	185,136	600	0	0.00	100.00%	0.24%

Category	Asset	Tag Number	Classification	Number of Asset	Number of Cummulative Failures	Aggregate Time in Service	Operating (Mission) Time	Failure Rate	Weight Factor	Population NCr Reliability Estimation	NCr Reliability
			SCE / BCE	(Unit)	(N - Failures)	(Hours)	(Hours)	(Failure/Hours)			99.93%
	Gas Chromatograph		BCE	-		-	-		-	100.00%	0.00%
	Indicator (Pressure)	see comments	BCE	45.00	-	4,165,560	600	0	0.03	100.00%	2.69%
	Indicator (Temperature)	see comments	BCE	20.00	-	1,851,360	600	0	0.01	100.00%	1.20%
	Meter (Orrifice)	see comments	BCE	8.00	-	740,544	600	0	0.00	100.00%	0.48%
	Meter (Rotary)	see comments	BCE	3.00	-	277,704	600	0	0.00	100.00%	0.18%
	Meter (Rumah Tangga)		BCE	-		-	-		-	100.00%	0.00%
	Meter (Turbine)	see comments	BCE	4.00	-	370,272	600	0	0.00	100.00%	0.24%
	Meter (Ultrasonic)		BCE	-		-	-		-	100.00%	0.00%
	PLC (Programmable Logic Control)	see comments	BCE	4.00	1	370,272	600	2.70072E-06	0.00	99.84%	0.24%
	Regulator		BCE	10.00	1	-	-		0.01	100.00%	0.60%
	Transmitter (DP)	see comments	BCE	13.00	-	1,203,384	600	0	0.01	100.00%	0.78%
	Transmitter (Level)	see comments	BCE	11.00	-	1,018,248	600	0	0.01	100.00%	0.66%
	Transmitter (Pressure)	see comments	BCE	46.00	-	4,258,128	600	0	0.03	100.00%	2.75%
	Transmitter (Temperature)	see comments	BCE	17.00	-	1,573,656	600	0	0.01	100.00%	1.02%
	Electrical										
	Automatic Transfer Switch (ATS)	see comments	BCE	3.00	4	277,704	600	1.44038E-05	0.00	99.14%	0.18%
	Battery Bank GEG & DEG	see comments	BCE	6.00	-	555,408	600	0	0.00	100.00%	0.36%
	Battery Bank GTCP	see comments	BCE	288.00	-	26,659,584	600	0	0.17	100.00%	17.25%
	Electric Heater (Fuel Gas Conditioning Unit)	see comments	BCE	2.00	5	185,136	600	2.70072E-05	0.00	98.39%	0.12%
	Lightning Protection System (LPS)		BCE	1.00	-	92,568	600	0	0.00	100.00%	0.06%
	Loadbank	see comments	BCE	2.00	18	92,568	600	0.000194452	0.00	88.99%	0.11%
	Switchgear	see comments	BCE	11.00	-	1,018,248	600	0	0.01	100.00%	0.66%
	Transformator (MCC Heater Panel)		BCE	1.00	-	92,568	600	0	0.00	100.00%	0.06%
	UPS	see comments	BCE	2.00	1	185,136	600	5.40143E-06	0.00	99.68%	0.12%
	UPS Battery	see comments	BCE	216.00	-	19,994,688	600	0	0.13	100.00%	12.93%
				-							
	Pressurise Equipment & Tank			-							
	Air Dryer Package	20-M-2330	BCE	2.00	1	185,136	600	5.40143E-06	0.00	99.68%	0.12%
	Air Utility Tank	20-V-2320	BCE	1.00	3	92,568	600	3.24086E-05	0.00	98.07%	0.06%
	Fuel Tank		BCE	2.00	-	185,136	600	0	0.00	100.00%	0.12%
	Gas Filter Separator	see comments	BCE	8.00	-	740,544	600	0	0.00	100.00%	0.48%
	IFWBH		BCE	-		-			-	100.00%	0.00%
	Instrument Air Receiver Tank	20-V-2340	BCE	1.00	-	92,568	600	0	0.00	100.00%	0.06%
	Odorizer		BCE	-		-			-	100.00%	0.00%
	Scrubber		BCE	4.00	-	370,272	600	0	0.00	100.00%	0.24%
	Slug Catcher		BCE	-		-			-	100.00%	0.00%
	Sump Tank	20-V-2110	BCE	1.00	-	92,568	600	0	0.00	100.00%	0.06%
				-							
	Fire & Gas - Safety			-							
	BFAP (Building Fire Alarm Panel)	see comments	SCE	5.00	1	462,840	600	2.16057E-06	0.00	99.87%	0.30%
	CO2 Fire Suppression (Enclosure GT)	see comments	SCE	6.00	-	555,408	600	0	0.00	100.00%	0.36%
	Fire Hydrant (Hydrant Pillar, Hose, etc)	see comments	SCE	6.00	-	8,784	600	0	0.00	100.00%	0.36%

Category	Asset	Tag Number	Classification	Number of Asset	Number of Cummulative Failures	Aggregate Time in Service	Operating (Mission) Time	Failure Rate	Weight Factor	Population NCr Reliability Estimation	NCr Reliability
			SCE / BCE	(Unit)	(N - Failures)	(Hours)	(Hours)	(Failure/Hours)			99.93%
	Fire Monitor	see comments	SCE	1.00	-	2,784	600	0	0.00	100.00%	0.06%
	Fire Pump (Diesel)	see comments	SCE	1.00	-	2,784	600	0	0.00	100.00%	0.06%
	Fire Pump (Electric)		SCE	1.00	-	2,784	600	0	0.00	100.00%	0.06%
	Fire Pump (Jockey)		SCE	1.00	-	2,784	600	0	0.00	100.00%	0.06%
	Flame Detector (UV/IR)	see comments	SCE	9.00	1	833,112	600	1.20032E-06	0.01	99.93%	0.54%
	FM 200 Fire Suppression	see comments	SCE	6.00	-	555,408	600	0	0.00	100.00%	0.36%
	Fusible Loop (Aftercooler)	see comments	SCE	3.00	-	277,704	600	0	0.00	100.00%	0.18%
	Gas Detector	see comments	SCE	12.00	21	1,110,816	600	1.8905E-05	0.01	98.87%	0.71%
	Heat Detector	see comments	SCE	42.00	-	3,887,856	600	0	0.03	100.00%	2.51%
	PA/GA (Public Address / General Alarm)		SCE	1.00	-	92,568	600	0	0.00	100.00%	0.06%
	SFAP (Station Fire Alarm Panel)		SCE	1.00	-	92,568	600	0	0.00	100.00%	0.06%
	Smoke Detector	see comments	SCE	119.00	4	11,015,592	600	3.63122E-07	0.07	99.98%	7.12%
				-							
Jaringan	Pipelines			-							
	Steel/PE Pipe .....Inch/ .....mm		BCE	-	-	-	-		-	100.00%	0.00%
	Steel/PE Pipe .....Inch/ .....mm		BCE	-	-	-	-		-	100.00%	0.00%
	Steel/PE Pipe .....Inch/ .....mm		BCE	-	-	-	-		-	100.00%	0.00%
	Steel/PE Pipe .....Inch/ .....mm		BCE	-	-	-	-		-	100.00%	0.00%
	Steel/PE Pipe .....Inch/ .....mm		BCE	-	-	-	-		-	100.00%	0.00%
	Steel/PE Pipe .....Inch/ .....mm		BCE	-	-	-	-		-	100.00%	0.00%
	Steel/PE Pipe .....Inch/ .....mm		BCE	-	-	-	-		-	100.00%	0.00%
	Steel/PE Pipe .....Inch/ .....mm		BCE	-	-	-	-		-	100.00%	0.00%
	Steel/PE Pipe .....Inch/ .....mm		BCE	-	-	-	-		-	100.00%	0.00%
	Steel/PE Pipe .....Inch/ .....mm		BCE	-	-	-	-		-	100.00%	0.00%
	Steel/PE Pipe .....Inch/ .....mm		BCE	-	-	-	-		-	100.00%	0.00%
	Steel/PE Pipe .....Inch/ .....mm		BCE	-	-	-	-		-	100.00%	0.00%
	Steel/PE Pipe .....Inch/ .....mm		BCE	-	-	-	-		-	100.00%	0.00%
	Steel/PE Pipe .....Inch/ .....mm		BCE	-	-	-	-		-	100.00%	0.00%
	Steel/PE Pipe .....Inch/ .....mm		BCE	-	-	-	-		-	100.00%	0.00%
	Pig Launcher		BCE	-	-	-	-		-	100.00%	0.00%
	Pig Receiver		BCE	-	-	-	-		-	100.00%	0.00%
				-							
	Valves			-							
	Sectional Valves		BCE	-	-	-	-		-	100.00%	0.00%
	Branch Valves		BCE	-	-	-	-		-	100.00%	0.00%
	Line Valves		BCE	-	-	-	-		-	100.00%	0.00%
	Venting Valves		BCE	-	-	-	-		-	100.00%	0.00%
				-							

Category	Asset	Tag Number	Classification	Number of Asset	Number of Cummulative Failures	Aggregate Time in Service	Operating (Mission) Time	Failure Rate	Weight Factor	Population NCr Reliability Estimation	NCr Reliability
			SCE / BCE	(Unit)	(N - Failures)	(Hours)	(Hours)	(Failure/Hours)			99.93%
	Proteksi Katodik			-							
	Transformer Rectifier		BCE	-	-	-	-		-	100.00%	0.00%
	Sacrificial Anode		BCE	-	-	-	-		-	100.00%	0.00%
	Test Point		BCE	-	-	-	-		-	100.00%	0.00%
	Junction Box		BCE	-	-	-	-		-	100.00%	0.00%
				-							
	Others			-							
	Jembatan		BCE	-	-	-	-		-	100.00%	0.00%

LAMPIRAN 17.2.T.9 FORMULIR RELIABILITY NON CRITICAL EQUIPMENT TSJ - SUMATERA SELATAN - STASIUN METERING PAGARDEWA

	Total Jumlah Aset	853.00									
Category	**Asset**	**Tag Number**	**Classification**	**Number of Asset**	**Number of Cummulative Failures**	**Aggregate Time in Service**	**Operating (Mission) Time**	**Failure Rate**	**Weight Factor**	**Population NCr Reliability Estimation**	**NCr Reliability**
			SCE / BCE	**(Unit)**	**(N - Failures)**	**(Hours)**	**(Hours)**	**(Failure/Hours)**			**99.98%**
Fasilitas	Valves										
	Ball Valves	Phase I	BCE	88	-	8,800,704	600	0	0.10	100.00%	10.32%
		Phase II	BCE	80.00	-	72,007,920	600	0	0.09	100.00%	9.38%
	Blowdown Valves		BCE			-			-	100.00%	0.00%
	Check Valves	Phase I	BCE	6.00	-	600,048	600	0	0.01	100.00%	0.70%
		Phase II	BCE	3.00	-	273,600	600	0	0.00	100.00%	0.35%
	Hand Control Valves	Phase I	BCE	7.00	-	700,056	600	0	0.01	100.00%	0.82%
		Phase II	BCE	4.00	1	364,896	600	2.74051E-06	0.00	99.84%	0.47%
	P/F/L Control Valves	33-FCV-1320	BCE	1.00	-	91,224	600	0	0.00	100.00%	0.12%
	Relief Valves		SCE	-	-	-	-		-	100.00%	0.00%
	Safety Valves (Pressure)	Phase I	SCE						-	100.00%	0.00%
		Phase II	SCE						-	100.00%	0.00%
	Shutdown Valves	33-SDV-1016	SCE						-	100.00%	0.00%
		33-SDV-1021	SCE						-	100.00%	0.00%
	Shutoff Valves		SCE						-	100.00%	0.00%
	Combustion Engine, Rotating Eq. & Machinery										
	After Cooler Fan A		BCE	-	-	-	-		-	100.00%	0.00%
	After Cooler Fan B		BCE	-	-	-	-		-	100.00%	0.00%
	After Cooler Fan C		BCE	-	-	-	-		-	100.00%	0.00%
	Air Compressor A		BCE	-	-	-	-		-	100.00%	0.00%
	Air Compressor B		BCE	-	-	-	-		-	100.00%	0.00%
	DEG		BCE	-	-	-	-		-	100.00%	0.00%
	Gas Compressor A		BCE	-	-	-	-		-	100.00%	0.00%
	Gas Compressor B		BCE	-	-	-	-		-	100.00%	0.00%
	Gas Compressor C		BCE	-	-	-	-		-	100.00%	0.00%
	Gas Turbine A		BCE	-	-	-	-		-	100.00%	0.00%
	Gas Turbine B		BCE	-	-	-	-		-	100.00%	0.00%
	Gas Turbine C		BCE	-	-	-	-		-	100.00%	0.00%
	GEG A		BCE	-	-	-	-		-	100.00%	0.00%
	GEG B		BCE	-	-	-	-		-	100.00%	0.00%
	Lube Oil Cooler Fan A		BCE	-	-	-	-		-	100.00%	0.00%
	Lube Oil Cooler Fan B		BCE	-	-	-	-		-	100.00%	0.00%
	Lube Oil Cooler Fan C		BCE	-	-	-	-		-	100.00%	0.00%
	Mainpump WTP		BCE	-	-	-	-		-	100.00%	0.00%
				-							
	Instruments & Control			-							
	Analyzer (Dew Point)		BCE	-	-	-	-		-	100.00%	0.00%
	Analyzer (Gas)		BCE	-	-	-	-		-	100.00%	0.00%

Category	Asset	Tag Number	Classification	Number of Asset	Number of Cummulative Failures	Aggregate Time in Service	Operating (Mission) Time	Failure Rate	Weight Factor	Population NCr Reliability Estimation	NCr Reliability
			SCE / BCE	(Unit)	(N - Failures)	(Hours)	(Hours)	(Failure/Hours)			99.98%
	Analyzer (H2O)		BCE	2.00	3	177,696	600	1.68828E-05	0.00	98.99%	0.23%
	Analyzer (H2S)		BCE	2.00	5	1,786,919	600	2.79811E-06	0.00	99.83%	0.23%
	Analyzer (Total Sulfur)		BCE	-		-			-	100.00%	0.00%
	DCS (Distributed Control System)		BCE	-		-			-	100.00%	0.00%
	Flow Com		BCE	2.00		-			0.00	100.00%	0.23%
	Gas Chromatograph		BCE	2.00		-			0.00	100.00%	0.23%
	Indicator (Pressure)		BCE	21.00	2	1,909,068	600	1.04763E-06	0.02	99.94%	2.46%
	Indicator (Temperature)		BCE	6.00	1	547,320	600	1.82708E-06	0.01	99.89%	0.70%
	Meter (Orrifice)		BCE	-		-			-	100.00%	0.00%
	Meter (Rotary)		BCE	-		-			-	100.00%	0.00%
	Meter (Rumah Tangga)		BCE	-		-			-	100.00%	0.00%
	Meter (Turbine)		BCE	-		-			-	100.00%	0.00%
	Meter (Ultrasonic)		BCE			-			-	100.00%	0.00%
	PLC (Programmable Logic Control)		BCE			-			-	100.00%	0.00%
	Regulator		BCE	12.00	-	1,094,688	600	0	0.01	100.00%	1.41%
	Transmitter (DP)		BCE	-	-	-			-	100.00%	0.00%
	Transmitter (Level)		BCE	2.00	2	182,534	600	1.09569E-05	0.00	99.34%	0.23%
	Transmitter (Pressure)		BCE	5.00		456,095	600	0	0.01	100.00%	0.59%
	Transmitter (Temperature)		BCE	4.00	1	364,896	600	2.74051E-06	0.00	99.84%	0.47%
				-	-	-	-				
	Electrical			-	-	-	-				
	Automatic Transfer Switch (ATS)		BCE	1.00	-	100,008	600		0.00	100.00%	0.12%
	Battery Bank GEG & DEG		BCE	1.00	2	21,096	600	9.48047E-05	0.00	94.47%	0.11%
	Battery Bank GTCP		BCE			-			-	100.00%	0.00%
	Electric Heater (Fuel Gas Conditioning Unit)		BCE			-			-	100.00%	0.00%
	Lightning Protection System (LPS)		BCE	1.00	-	91,224	600	0	0.00	100.00%	0.12%
	Loadbank		BCE	-		-			-	100.00%	0.00%
	Switchgear		BCE	-		-			-	100.00%	0.00%
	Transformator (MCC Heater Panel)		BCE	-		-			-	100.00%	0.00%
	UPS		BCE			-			-	100.00%	0.00%
	UPS Battery Rank A		BCE	102.00	-	9,384,124	600	0	0.12	100.00%	11.96%
	UPS Battery Rank B			102.00	1	9,286,064	600	1.07688E-07	0.12	99.99%	11.96%
	Pressurise Equipment & Tank			-		-					
	Air Dryer Package		BCE	-		-			-	100.00%	0.00%
	Air Utility Tank		BCE	-		-			-	100.00%	0.00%
	Fuel Tank		BCE	1.00	1	91,224	600	1.0962E-05	0.00	99.34%	0.12%
	Gas Filter Separator		BCE	-	-	-	-		-	100.00%	0.00%
	IFWBH		BCE	-	-	-	-		-	100.00%	0.00%
	Instrument Air Receiver Tank		BCE	-	-	-	-		-	100.00%	0.00%
	Odorizer		BCE	-	-	-	-		-	100.00%	0.00%
	Scrubber		BCE	-	-	-	-		-	100.00%	0.00%
	Slug Catcher		BCE						-	100.00%	0.00%
	Sump Tank		BCE						-	100.00%	0.00%
				-							

Category	Asset	Tag Number	Classification	Number of Asset	Number of Cummulative Failures	Aggregate Time in Service	Operating (Mission) Time	Failure Rate	Weight Factor	Population NCr Reliability Estimation	NCr Reliability
			SCE / BCE	(Unit)	(N - Failures)	(Hours)	(Hours)	(Failure/Hours)			99.98%
	Fire & Gas - Safety			-							
	BFAP (Building Fire Alarm Panel)		SCE	-	-	-	-		-	100.00%	0.00%
	CO2 Fire Suppression (Enclosure GT)		SCE	-	-	-	-		-	100.00%	0.00%
	Fire Hydrant (Hydrant Pillar, Hose, etc)		SCE	-	-	-	-		-	100.00%	0.00%
	Fire Monitor		SCE	-	-	-	-		-	100.00%	0.00%
	Fire Pump (Diesel)		SCE	-	-	-	-		-	100.00%	0.00%
	Fire Pump (Electric)		SCE	-	-	-	-		-	100.00%	0.00%
	Fire Pump (Jockey)		SCE	-	-	-	-		-	100.00%	0.00%
	Flame Detector (UV/IR)		SCE	2.00	-	182,448	600	0	0.00	100.00%	0.23%
	FM 200 Fire Suppression		SCE	5.00	-	456,120	600	0	0.01	100.00%	0.59%
	Fusible Loop (Aftercooler)		SCE	-		-			-	100.00%	0.00%
		Area Rec Phase 1	SCE	1.00	-	12,336	600	0	0.00	100.00%	0.12%
		Area Slug Catcher	SCE	1.00	-	12,336	600	0	0.00	100.00%	0.12%
		Area Sump Tank	SCE	1.00	1	90,480	600	1.10522E-05	0.00	99.34%	0.12%
	Gas Detector	Area Analyzer A	SCE	1.00	1	90,480	600	1.10522E-05	0.00	99.34%	0.12%
		Area analyzer B	SCE	1.00	-	33,480	600	0	0.00	100.00%	0.12%
		Area Launch Phase II	SCE	1.00	-	33,480	600	0	0.00	100.00%	0.12%
		Area Metering	SCE	1.00	-	16,680	600	0	0.00	100.00%	0.12%
	Heat Detector		SCE	15.00	-	1,368,360	600	0	0.02	100.00%	1.76%
	PA/GA (Public Address / General Alarm)		SCE			-			-	100.00%	0.00%
	SFAP (Station Fire Alarm Panel)		SCE	1.00	-	51,744	600	0	0.00	100.00%	0.12%
	Smoke Detector		SCE	15.00	-	1,368,360	600	0	0.02	100.00%	1.76%
				-					-	100.00%	0.00%
Jaringan	Pipelines			-					-	100.00%	0.00%
	Steel Pipe 36 Inch	PGD-GRS SSWJ II	BCE	98.00		98,832	600	0	0.11	100.00%	11.49%
	Steel Pipe 28 Inch	SPG-PGD SSWJ I	BCE	4.00		100,704	600	0	0.00	100.00%	0.47%
	Steel Pipe 32 Inch	PGD - TBB SSWJ I	BCE	56.00	-	100,704	600	0	0.07	100.00%	6.57%
	Steel Pipe 32 Inch	PGD - TBB SSWJ II	BCE	56.00	-	98,832	600	0	0.07	100.00%	6.57%
	Steel/PE Pipe .....Inch/ .....mm		BCE	-	-	-	-		-	100.00%	0.00%
	Steel/PE Pipe .....Inch/ .....mm		BCE	-	-	-	-		-	100.00%	0.00%
	Steel/PE Pipe .....Inch/ .....mm		BCE	-	-	-	-		-	100.00%	0.00%
	Steel/PE Pipe .....Inch/ .....mm		BCE	-	-	-	-		-	100.00%	0.00%
	Steel/PE Pipe .....Inch/ .....mm		BCE	-	-	-	-		-	100.00%	0.00%
	Steel/PE Pipe .....Inch/ .....mm		BCE	-	-	-	-		-	100.00%	0.00%
	Steel/PE Pipe .....Inch/ .....mm		BCE	-	-	-	-		-	100.00%	0.00%
	Steel/PE Pipe .....Inch/ .....mm		BCE	-	-	-	-		-	100.00%	0.00%
	Steel/PE Pipe .....Inch/ .....mm		BCE	-	-	-	-		-	100.00%	0.00%
	Steel/PE Pipe .....Inch/ .....mm		BCE	-	-	-	-		-	100.00%	0.00%
	Steel/PE Pipe .....Inch/ .....mm		BCE	-	-	-	-		-	100.00%	0.00%
	Steel/PE Pipe .....Inch/ .....mm		BCE	-	-	-	-		-	100.00%	0.00%
	Steel/PE Pipe .....Inch/ .....mm		BCE	-	-	-	-		-	100.00%	0.00%

Category	Asset	Tag Number	Classification	Number of Asset	Number of Cummulative Failures	Aggregate Time in Service	Operating (Mission) Time	Failure Rate	Weight Factor	Population NCr Reliability Estimation	NCr Reliability
			SCE / BCE	(Unit)	(N - Failures)	(Hours)	(Hours)	(Failure/Hours)			99.98%
	Steel/PE Pipe .....Inch/ .....mm		BCE	-	-	-	-		-	100.00%	0.00%
	Pig Launcher	Phase I	BCE	1.00	-	91,920	600	0	0.00	100.00%	0.12%
		Phase II	BCE	1.00	-	100,704	600	0	0.00	100.00%	0.12%
	Pig Receiver	Phase I	BCE	1.00	-	91,920	600	0	0.00	100.00%	0.12%
		Phase II	BCE	1.00	-	100,704	600	0	0.00	100.00%	0.12%
				-							
	Valves			-							
	Sectional Valves	Phase I	BCE	2.00	-	95,448	600	0	0.00	100.00%	0.23%
		Phase II	BCE	2.00	-	14,184	600	0	0.00	100.00%	0.23%
	Branch Valves		BCE	1.00	-	91,920	600	0	0.00	100.00%	0.12%
	Line Valves		BCE	-	-				-	100.00%	0.00%
	Venting Valves			-							
	Proteksi Katodik			-							
	Transformer Rectifier	Phase I	BCE	1.00	-	91,200	600	0	0.00	100.00%	0.12%
		Phase II	BCE	2.00	-	99,984	600	0	0.00	100.00%	0.23%
	Sacrificial Anode		BCE	-	-				-	100.00%	0.00%
	Test Point	Phase I	BCE	39.00	-	283,272	600	0	0.05	100.00%	4.57%
		Phase II	BCE	83.00		438,504	600	0	0.10	100.00%	9.73%
	Junction Box	Phase I	BCE	4.00	2	107,712	600	1.8568E-05	0.00	98.89%	0.46%
		Phase II	BCE	1.00	-	100,704	600	0	0.00	100.00%	0.12%
	Others			-							
	Jembatan		BCE	-	-	100,704	600		-	100.00%	0.00%

LAMPIRAN 17.2.T.10 FORMULIR RELIABILITY NON CRITICAL EQUIPMENT TSJ - LAMPUNG - STASIUN TERBANGGI BESAR

	Total Jumlah Aset	774.00									
Category	Asset	Tag Number	Classification	Number of Asset	Number of Cummulative Failures	Aggregate Time in Service	Operating (Mission) Time	Failure Rate	Weight Factor	Population NCr Reliability Estimation	NCr Reliability
			SCE / BCE	(Unit)	(N - Failures)	(Hours)	(Hours)	(Failure/Hours)			99.60%
Fasilitas	Valves										
	Ball Valves		BCE	100	30	9,117,888	600	3.29024E-06	0.13	99.80%	12.89%
	Blowdown Valves		BCE	-		-			-	100.00%	0.00%
	Check Valves		BCE	9.00		825,240	600	0	0.01	100.00%	1.16%
	Hand Control Valves		BCE	12.00	64	1,098,624	600	5.82547E-05	0.02	96.57%	1.50%
	P/F/L Control Valves		BCE	-		-			-	100.00%	0.00%
	Relief Valves		SCE	-		-			-	100.00%	0.00%
	Safety Valves (Pressure)		SCE	1.00		96,216	600	0	0.00	100.00%	0.13%
	Shutdown Valves		SCE	1.00		96,216	600		0.00	100.00%	0.13%
	Shutoff Valves		SCE	2.00	2	187,344	600	1.06755E-05	0.00	99.36%	0.26%
	Combustion Engine, Rotating Eq. & Machinery										
	After Cooler Fan A		BCE	-	-	-	-		-	100.00%	0.00%
	After Cooler Fan B		BCE	-	-	-	-		-	100.00%	0.00%
	After Cooler Fan C		BCE	-	-	-	-		-	100.00%	0.00%
	Air Compressor A		BCE	-	-	-	-		-	100.00%	0.00%
	Air Compressor B		BCE	-	-	-	-		-	100.00%	0.00%
	DEG		BCE						-	100.00%	0.00%
	Gas Compressor A		BCE	-	-	-	-		-	100.00%	0.00%
	Gas Compressor B		BCE	-	-	-	-		-	100.00%	0.00%
	Gas Compressor C		BCE	-	-	-	-		-	100.00%	0.00%
	Gas Turbine A		BCE	-	-	-	-		-	100.00%	0.00%
	Gas Turbine B		BCE	-	-	-	-		-	100.00%	0.00%
	Gas Turbine C		BCE	-	-	-	-		-	100.00%	0.00%
	GEG A		BCE						-	100.00%	0.00%
	GEG B		BCE	-	-	-	-		-	100.00%	0.00%
	Lube Oil Cooler Fan A		BCE	-	-	-	-		-	100.00%	0.00%
	Lube Oil Cooler Fan B		BCE	-	-	-	-		-	100.00%	0.00%
	Lube Oil Cooler Fan C		BCE	-	-	-	-		-	100.00%	0.00%
	Mainpump WTP		BCE	-	-	-	-		-	100.00%	0.00%
				-							
	Instruments & Control			-							
	Analyzer (Dew Point)		BCE	-	-	-	-		-	100.00%	0.00%
	Analyzer (Gas)		BCE	-	-	-	-		-	100.00%	0.00%
	Analyzer (H2O)		BCE	-	-	-	-		-	100.00%	0.00%
	Analyzer (H2S)		BCE	-	-	-	-		-	100.00%	0.00%
	Analyzer (Total Sulfur)		BCE	-	-	-	-		-	100.00%	0.00%
	DCS (Distributed Control System)		BCE	-	-	-	-		-	100.00%	0.00%
	Flow Com		BCE	-	-	-	-		-	100.00%	0.00%
	Gas Chromatograph		BCE	-	-	-	-		-	100.00%	0.00%
	Indicator (Pressure)		BCE	16.00	10	1,463,136	600	6.83463E-06	0.02	99.59%	2.06%
	Indicator (Temperature)		BCE	3.00	1	278,472	600	3.59103E-06	0.00	99.78%	0.39%

Category	Asset	Tag Number	Classification	Number of Asset	Number of Cummulative Failures	Aggregate Time in Service	Operating (Mission) Time	Failure Rate	Weight Factor	Population NCr Reliability Estimation	NCr Reliability
			SCE / BCE	(Unit)	(N - Failures)	(Hours)	(Hours)	(Failure/Hours)			99.60%
	Meter (Orrifice)		BCE	-	-	-	-		-	100.00%	0.00%
	Meter (Rotary)		BCE	1.00	1	96,216	600	1.03933E-05	0.00	99.38%	0.13%
	Meter (Rumah Tangga)		BCE	-	-	-	-		-	100.00%	0.00%
	Meter (Turbine)		BCE	-	-	-	-		-	100.00%	0.00%
	Meter (Ultrasonic)		BCE	-	-	-	-		-	100.00%	0.00%
	PLC (Programmable Logic Control)		BCE	-	-	-	-		-	100.00%	0.00%
	Regulator		BCE	-	-	-	-		-	100.00%	0.00%
	Transmitter (DP)		BCE	2.00	-	187,344	600	0	0.00	100.00%	0.26%
	Transmitter (Level)		BCE	1.00	6	96,216	600	6.23597E-05	0.00	96.33%	0.12%
	Transmitter (Pressure)		BCE	5.00	2	460,728	600	4.34096E-06	0.01	99.74%	0.64%
	Transmitter (Temperature)		BCE	3.00	-	278,472	600	0	0.00	100.00%	0.39%
				-		-					
	Electrical			-		-					
	Automatic Transfer Switch (ATS)		BCE	1.00	-	96,216	600	0	0.00	100.00%	0.13%
	Battery Bank GEG & DEG		BCE	-	-	-			-	100.00%	0.00%
	Battery Bank GTCP		BCE	-	-	-			-	100.00%	0.00%
	Electric Heater (Fuel Gas Conditioning Unit)		BCE	-	-	-			-	100.00%	0.00%
	Lightning Protection System (LPS)		BCE	1.00	-	96,216	600	0	0.00	100.00%	0.13%
	Loadbank		BCE	-	-	-			-	100.00%	0.00%
	Switchgear		BCE	-	-	-			-	100.00%	0.00%
	Transformator (MCC Heater Panel)		BCE	-	-	-			-	100.00%	0.00%
	UPS		BCE	2.00	-	190,944	600	0	0.00	100.00%	0.26%
	UPS Battery		BCE	136.00	2	12,984,192	600		0.18	100.00%	17.57%
				-		-					
	Pressurise Equipment & Tank			-		-					
	Air Dryer Package		BCE	-	-	-	-		-	100.00%	0.00%
	Air Utility Tank		BCE	-	-	-	-		-	100.00%	0.00%
	Fuel Tank		BCE	3.00	-	286,416	600	0	0.00	100.00%	0.39%
	Gas Filter Separator		BCE	-	-	-	-		-	100.00%	0.00%
	IFWBH		BCE	-	-	-	-		-	100.00%	0.00%
	Instrument Air Receiver Tank		BCE	-	-	-	-		-	100.00%	0.00%
	Odorizer		BCE	-	-	-	-		-	100.00%	0.00%
	Scrubber		BCE	-	-	-	-		-	100.00%	0.00%
	Slug Catcher		BCE	2.00	-	190,944	600	0	0.00	100.00%	0.26%
	Sump Tank		BCE	1.00	-	95,472	600	0	0.00	100.00%	0.13%
				-		-					
	Fire & Gas - Safety			-		-					
	BFAP (Building Fire Alarm Panel)		SCE	1.00	7	96,145	600	7.28067E-05	0.00	95.73%	0.12%
	CO2 Fire Suppression (Enclosure GT)		SCE	-	-	-	-		-	100.00%	0.00%
	Fire Hydrant (Hydrant Pillar, Hose, etc)		SCE	6.00	1	577,296	600	1.73221E-06	0.01	99.90%	0.77%
	Fire Monitor		SCE	2.00	-	192,432	600	0	0.00	100.00%	0.26%
	Fire Pump (Diesel)		SCE	2.00	4	192,432	600	2.07866E-05	0.00	98.76%	0.26%
	Fire Pump (Electric)		SCE	-	-	-	-		-	100.00%	0.00%
	Fire Pump (Jockey)		SCE	1.00	1	96,216	600	1.03933E-05	0.00	99.38%	0.13%
	Flame Detector (UV/IR)		SCE	2.00	-	192,432	600	0	0.00	100.00%	0.26%
	FM 200 Fire Suppression		SCE	5.00	3	477,360	600	6.28457E-06	0.01	99.62%	0.64%
	Fusible Loop (Aftercooler)		SCE	-	-	-	-		-	100.00%	0.00%

Category	Asset	Tag Number	Classification	Number of Asset	Number of Cummulative Failures	Aggregate Time in Service	Operating (Mission) Time	Failure Rate	Weight Factor	Population NCr Reliability Estimation	NCr Reliability
			SCE / BCE	(Unit)	(N - Failures)	(Hours)	(Hours)	(Failure/Hours)			99.60%
	Gas Detector		SCE	5.00	5	481,080	600	1.03933E-05	0.01	99.38%	0.64%
	Heat Detector		SCE	20.00	-	1,924,320	600	0	0.03	100.00%	2.58%
	PA/GA (Public Address / General Alarm)		SCE	-	-	-	-		-	100.00%	0.00%
	SFAP (Station Fire Alarm Panel)		SCE	1.00	1	96,216	600	1.03933E-05	0.00	99.38%	0.13%
	Smoke Detector		SCE	17.00	-	1,635,672	600	0	0.02	100.00%	2.20%
				-							
	Pipelines			-							
	Steel Pipe 32 Inch	PGD - TBB SSWJ 1	BCE	122.00	-	100,704	600	0	0.16	100.00%	15.76%
Jaringan	Steel Pipe 32 Inch	PGD - TBB SSWJ 2	BCE	122.00	-	91,920	600	0	0.16	100.00%	15.76%
	Steel/PE Pipe .....Inch/ .....mm		BCE	-	-				-	100.00%	0.00%
	Steel/PE Pipe .....Inch/ .....mm		BCE	-	-				-	100.00%	0.00%
	Steel/PE Pipe .....Inch/ .....mm		BCE	-	-				-	100.00%	0.00%
	Steel/PE Pipe .....Inch/ .....mm		BCE	-	-				-	100.00%	0.00%
	Steel/PE Pipe .....Inch/ .....mm		BCE	-	-				-	100.00%	0.00%
	Steel/PE Pipe .....Inch/ .....mm		BCE	-	-				-	100.00%	0.00%
	Steel/PE Pipe .....Inch/ .....mm		BCE	-	-				-	100.00%	0.00%
	Steel/PE Pipe .....Inch/ .....mm		BCE	-	-				-	100.00%	0.00%
	Steel/PE Pipe .....Inch/ .....mm		BCE	-	-				-	100.00%	0.00%
	Steel/PE Pipe .....Inch/ .....mm		BCE	-	-				-	100.00%	0.00%
	Steel/PE Pipe .....Inch/ .....mm		BCE	-	-				-	100.00%	0.00%
	Steel/PE Pipe .....Inch/ .....mm		BCE	-	-				-	100.00%	0.00%
	Steel/PE Pipe .....Inch/ .....mm		BCE	-	-				-	100.00%	0.00%
	Pig Launcher	Phase 1	BCE	1.00	-	100,704	600	0	0.00	100.00%	0.13%
		Phase 2	BCE	1.00	-	91,920	600	0	0.00	100.00%	0.13%
	Pig Receiver	Phase 1	BCE	1.00	-	100,704	600	0	0.00	100.00%	0.13%
		Phase 2	BCE	1.00	-	91,920	600	0	0.00	100.00%	0.13%
	Valves			-							
	Sectional Valves	Phase 1	BCE	4.00	-	100,704	600	0	0.01	100.00%	0.52%
		Phase 2	BCE	4.00	-	91,920	600	0	0.01	100.00%	0.52%
	Branch Valves		BCE	5.00	-	100,704	600	0	0.01	100.00%	0.65%
	Line Valves		BCE	-	-	17,376	600	0	-	100.00%	0.00%
	Venting Valves		BCE	-							
	Proteksi Katodik			-							
	Transformer Rectifier	Phase 1	BCE	2.00	2	100,704	600	1.98602E-05	0.00	98.82%	0.26%
		Phase 2	BCE	2.00		91,920	600	0	0.00	100.00%	0.26%
	Sacrificial Anode		BCE						-	100.00%	0.00%
	Test Point	Phase 1	BCE	80.00	3	100,704	600	2.97903E-05	0.10	98.23%	10.15%
		Phase 2	BCE	61.00	2	91,920	600	2.17581E-05	0.08	98.70%	7.78%
	Junction Box	Phase 1	BCE	2.00	-	100,704	600	0	0.00	100.00%	0.26%

Category	Asset	Tag Number	Classification	Number of Asset	Number of Cummulative Failures	Aggregate Time in Service	Operating (Mission) Time	Failure Rate	Weight Factor	Population NCr Reliability Estimation	NCr Reliability
			SCE / BCE	(Unit)	(N - Failures)	(Hours)	(Hours)	(Failure/Hours)			99.60%
	Others	Phase 2	BCE	2.00		91,920	600	0	0.00	100.00%	0.26%
	Jembatan		BCE	-	-				-	100.00%	0.00%

LAMPIRAN 17.2.T.11 FORMULIR RELIABILITY NON CRITICAL EQUIPMENT TSJ - LAMPUNG - STASIUN LABUHAN MARINGGAI

	Total Jumlah Aset	730.30									
Category	**Asset**	**Tag Number**	**Classification**	**Number of Asset**	**Number of Cummulative Failures**	**Aggregate Time in Service**	**Operating (Mission) Time**	**Failure Rate**	**Weight Factor**	**Population NCr Reliability Estimation**	**NCr Reliability**
			SCE / BCE	**(Unit)**	**(N - Failures)**	**(Hours)**	**(Hours)**	**(Failure/Hours)**			**99.82%**
Fasilitas	Valves										
	Ball Valves		BCE	136	41	11,787,216	600	3.47834E-06	0.19	99.79%	18.58%
	Blowdown Valves		BCE					0	-	100.00%	0.00%
	Check Valves		BCE	9.00	-	839,664	600	0	0.01	100.00%	1.23%
	Hand Control Valves		BCE	12.00	58	996,848	600	5.81834E-05	0.02	96.57%	1.59%
	P/F/L Control Valves		BCE						-	100.00%	0.00%
	Relief Valves		SCE						-	100.00%	0.00%
	Safety Valves (Pressure)		SCE	2.00	-	181,584	600	0	0.00	100.00%	0.27%
	Shutdown Valves		SCE	3.00	6	173,568	600	3.45686E-05	0.00	97.95%	0.40%
	Shutoff Valves		SCE	2.00	3	181,584	600	1.65213E-05	0.00	99.01%	0.27%
	Combustion Engine, Rotating Eq. & Machinery										
	After Cooler Fan A		BCE	-	-	-	-		-	100.00%	0.00%
	After Cooler Fan B		BCE	-	-	-	-		-	100.00%	0.00%
	After Cooler Fan C		BCE	-	-	-	-		-	100.00%	0.00%
	Air Compressor A		BCE	-	-	-	-		-	100.00%	0.00%
	Air Compressor B		BCE	-	-	-	-		-	100.00%	0.00%
	DEG		BCE	-	-				-	100.00%	0.00%
	Gas Compressor A		BCE	-	-	-	-		-	100.00%	0.00%
	Gas Compressor B		BCE	-	-	-	-		-	100.00%	0.00%
	Gas Compressor C		BCE	-	-	-	-		-	100.00%	0.00%
	Gas Turbine A		BCE	-	-	-	-		-	100.00%	0.00%
	Gas Turbine B		BCE	-	-	-	-		-	100.00%	0.00%
	Gas Turbine C		BCE	-	-	-	-		-	100.00%	0.00%
	GEG A		BCE	-	-	-	-		-	100.00%	0.00%
	GEG B		BCE	-	-	-	-		-	100.00%	0.00%
	Lube Oil Cooler Fan A		BCE	-	-	-	-		-	100.00%	0.00%
	Lube Oil Cooler Fan B		BCE	-	-	-	-		-	100.00%	0.00%
	Lube Oil Cooler Fan C		BCE	-	-	-	-		-	100.00%	0.00%
	Mainpump WTP		BCE	-	-	-	-		-	100.00%	0.00%
				-							
	Instruments & Control			-							
	Analyzer (Dew Point)		BCE	-	-	-	-		-	100.00%	0.00%
	Analyzer (Gas)		BCE	-	-	-	-		-	100.00%	0.00%
	Analyzer (H2O)		BCE	-	-	-	-		-	100.00%	0.00%
	Analyzer (H2S)		BCE	-	-	-	-		-	100.00%	0.00%
	Analyzer (Total Sulfur)		BCE	-	-	-	-		-	100.00%	0.00%
	DCS (Distributed Control System)		BCE	-	-	-	-		-	100.00%	0.00%
	Flow Com		BCE	-	-	-	-		-	100.00%	0.00%
	Gas Chromatograph		BCE	-		-	-		-	100.00%	0.00%

Category	Asset	Tag Number	Classification	Number of Asset	Number of Cummulative Failures	Aggregate Time in Service	Operating (Mission) Time	Failure Rate	Weight Factor	Population NCr Reliability Estimation	NCr Reliability
			SCE / BCE	(Unit)	(N - Failures)	(Hours)	(Hours)	(Failure/Hours)			99.82%
	Indicator (Pressure)		BCE	18.00	25	1,561,332	600	1.6012E-05	0.02	99.04%	2.44%
	Indicator (Temperature)		BCE	2.00	1	190,368	600	5.25298E-06	0.00	99.69%	0.27%
	Meter (Orrifice)		BCE	2.00	-	190,368	600	0	0.00	100.00%	0.27%
	Meter (Rotary)		BCE	1.00	1	93,312	600	1.07167E-05	0.00	99.36%	0.14%
	Meter (Rumah Tangga)		BCE	-	-	-	-		-	100.00%	0.00%
	Meter (Turbine)		BCE	-	-	-	-		-	100.00%	0.00%
	Meter (Ultrasonic)		BCE	-	-	-	-		-	100.00%	0.00%
	PLC (Programmable Logic Control)		BCE	-	-	-	-		-	100.00%	0.00%
	Regulator		BCE	-	-	-	-		-	100.00%	0.00%
	Transmitter (DP)		BCE	6.00	2	563,904	600	3.5467E-06	0.01	99.79%	0.82%
	Transmitter (Level)		BCE	1.00	1	92,592	600	1.08001E-05	0.00	99.35%	0.14%
	Transmitter (Pressure)		BCE	14.00	6	959,094	600	6.2559E-06	0.02	99.63%	1.91%
	Transmitter (Temperature)		BCE	8.00	3	750,672	600	3.99642E-06	0.01	99.76%	1.09%
				-							
	Electrical			-							
	Automatic Transfer Switch (ATS)		BCE	1.00	-	101,376	600	0	0.00	100.00%	0.14%
	Battery Bank GEG & DEG		BCE						-	100.00%	0.00%
	Battery Bank GTCP		BCE						-	100.00%	0.00%
	Electric Heater (Fuel Gas Conditioning Unit)		BCE						-	100.00%	0.00%
	Lightning Protection System (LPS)		BCE	1.00	1	101,376	600	9.86427E-06	0.00	99.41%	0.14%
	Loadbank		BCE						-	100.00%	0.00%
	Switchgear		BCE						-	100.00%	0.00%
	Transformator (MCC Heater Panel)		BCE						-	100.00%	0.00%
	UPS		BCE	2.00	1	106,392	600	9.3992E-06	0.00	99.44%	0.27%
	UPS Battery		BCE	136.00	17	13,301,136	600	1.27809E-06	0.19	99.92%	18.61%
				-							
	Pressurise Equipment & Tank			-							
	Air Dryer Package		BCE	-	-				-	100.00%	0.00%
	Air Utility Tank		BCE	-	-				-	100.00%	0.00%
	Fuel Tank		BCE	1.00	-	101,376	600	0	0.00	100.00%	0.14%
	Gas Filter Separator		BCE	2.00	-	181,584	600	0	0.00	100.00%	0.27%
	IFWBH		BCE						-	100.00%	0.00%
	Instrument Air Receiver Tank		BCE						-	100.00%	0.00%
	Odorizer		BCE						-	100.00%	0.00%
	Scrubber		BCE						-	100.00%	0.00%
	Slug Catcher		BCE						-	100.00%	0.00%
	Sump Tank		BCE	1.00	-	101,376	600	0	0.00	100.00%	0.14%
				-							
	Fire & Gas - Safety			-							
	BFAP (Building Fire Alarm Panel)		SCE	1.00	-	101,376	600	0	0.00	100.00%	0.14%
	CO2 Fire Suppression (Enclosure GT)		SCE						-	100.00%	0.00%
	Fire Hydrant (Hydrant Pillar, Hose, etc)		SCE	2.00	-	75,792	600	0	0.00	100.00%	0.27%
	Fire Monitor		SCE						-	100.00%	0.00%
	Fire Pump (Diesel)		SCE						-	100.00%	0.00%
	Fire Pump (Electric)		SCE						-	100.00%	0.00%

Category	Asset	Tag Number	Classification	Number of Asset	Number of Cummulative Failures	Aggregate Time in Service	Operating (Mission) Time	Failure Rate	Weight Factor	Population NCr Reliability Estimation	NCr Reliability
			SCE / BCE	(Unit)	(N - Failures)	(Hours)	(Hours)	(Failure/Hours)			99.82%
	Fire Pump (Jockey)		SCE						-	100.00%	0.00%
	Flame Detector (UV/IR)		SCE	2.00	1	190,368	600	5.25298E-06	0.00	99.69%	0.27%
	FM 200 Fire Suppression		SCE	5.00	-	492,120	600	0	0.01	100.00%	0.68%
	Fusible Loop (Aftercooler)		SCE			-			-	100.00%	0.00%
	Gas Detector		SCE	6.00	6	537,552	600	1.11617E-05	0.01	99.33%	0.82%
	Heat Detector		SCE	22.00	1	2,155,092	600	4.64017E-07	0.03	99.97%	3.01%
	PA/GA (Public Address / General Alarm)		SCE			-			-	100.00%	0.00%
	SFAP (Station Fire Alarm Panel)		SCE	1.00	18	102,120	600	0.000176263	0.00	89.96%	0.12%
	Smoke Detector		SCE	20.00	1	1,959,120	600	5.10433E-07	0.03	99.97%	2.74%
				-							
	Pipelines			-							
	Steel Pipe 32 Inch	TBB - LBM SSWJ 1	BCE	90.15	-	100,704	600	0	0.12	100.00%	12.34%
Jaringan	Steel Pipe 32 Inch	TBB - LBM SSWJ 2	BCE	90.15	-	91,920	600	0	0.12	100.00%	12.34%
	Steel/PE Pipe .....Inch/ .....mm		BCE	-	-				-	100.00%	0.00%
	Steel/PE Pipe .....Inch/ .....mm		BCE	-	-				-	100.00%	0.00%
	Steel/PE Pipe .....Inch/ .....mm		BCE	-	-				-	100.00%	0.00%
	Steel/PE Pipe .....Inch/ .....mm		BCE	-	-				-	100.00%	0.00%
	Steel/PE Pipe .....Inch/ .....mm		BCE	-	-				-	100.00%	0.00%
	Steel/PE Pipe .....Inch/ .....mm		BCE	-	-				-	100.00%	0.00%
	Steel/PE Pipe .....Inch/ .....mm		BCE	-	-				-	100.00%	0.00%
	Steel/PE Pipe .....Inch/ .....mm		BCE	-	-				-	100.00%	0.00%
	Steel/PE Pipe .....Inch/ .....mm		BCE	-	-				-	100.00%	0.00%
	Steel/PE Pipe .....Inch/ .....mm		BCE	-	-				-	100.00%	0.00%
	Steel/PE Pipe .....Inch/ .....mm		BCE	-	-				-	100.00%	0.00%
	Steel/PE Pipe .....Inch/ .....mm		BCE	-	-				-	100.00%	0.00%
	Steel/PE Pipe .....Inch/ .....mm		BCE	-	-				-	100.00%	0.00%
	Pig Launcher	Phase I	BCE	1.00	-	100,704	600	0	0.00	100.00%	0.14%
		Phase II	BCE	1.00	-	91,920	600	0	0.00	100.00%	0.14%
	Pig Receiver	Phase I	BCE	1.00	-	100,704	600	0	0.00	100.00%	0.14%
		Phase II	BCE	1.00	-	91,920	600	0	0.00	100.00%	0.14%
	Valves			-							
	Sectional Valves	Phase I	BCE	3.00	-	100,704	600	0	0.00	100.00%	0.41%
		Phase II	BCE	3.00	-	91,920	600	0	0.00	100.00%	0.41%
	Branch Valves		BCE	4.00	-	100,704	600	0	0.01	100.00%	0.55%
	Line Valves		BCE	-	-				-	100.00%	0.00%
	Venting Valves			-							
	Proteksi Katodik			-							
	Transformer Rectifier	Phase I	BCE	1.00	-	100,704	600	0	0.00	100.00%	0.14%

Category	Asset	Tag Number	Classification	Number of Asset	Number of Cummulative Failures	Aggregate Time in Service	Operating (Mission) Time	Failure Rate	Weight Factor	Population NCr Reliability Estimation	NCr Reliability
			SCE / BCE	(Unit)	(N - Failures)	(Hours)	(Hours)	(Failure/Hours)			99.82%
		Phase II	BCE	1.00	-	91,920	600	0	0.00	100.00%	0.14%
	Sacrificial Anode		BCE						-	100.00%	0.00%
	Test Point	Phase I	BCE	62.00	-	100,704	600	0	0.08	100.00%	8.49%
		Phase II	BCE	49.00	-	91,920	600	0	0.07	100.00%	6.71%
	Junction Box	Phase I	BCE	2.00	-	100,704	600	0	0.00	100.00%	0.27%
	Others	Phase II	BCE	2.00	-	91,920	600	0	0.00	100.00%	0.27%
	Jembatan		BCE	-	-				-	100.00%	0.00%

LAMPIRAN 17.2.T.12 FORMULIR RELIABILITY NON CRITICAL EQUIPMENT TSJ - JAWA BAGIAN BARAT - STASIUN MUARA BEKASI

	Total Jumlah Aset	840.00									
Category	**Asset**	**Tag Number**	**Classification**	**Number of Asset**	**Number of Cummulative Failures**	**Aggregate Time in Service**	**Operating (Mission) Time**	**Failure Rate**	**Weight Factor**	**Population NCr Reliability Estimation**	**NCr Reliability**
			SCE / BCE	**(Unit)**	**(N - Failures)**	**(Hours)**	**(Hours)**	**(Failure/Hours)**			**99.94%**
Fasilitas	Valves										
	Ball Valves		BCE	113	3	11,210,388	600	2.67609E-07	0.13	99.98%	13.45%
	Blowdown Valves		BCE	1.00	-	100,584	600	0	0.00	100.00%	0.12%
	Check Valves		BCE	10.00	-	1,005,840	600	0	0.01	100.00%	1.19%
	Hand Control Valves		BCE	4.00	-	402,336	600	0	0.00	100.00%	0.48%
	P/F/L Control Valves		BCE	4.00	-	402,336	600	0	0.00	100.00%	0.48%
	Relief Valves		SCE	-	-				-	100.00%	0.00%
	Safety Valves (Pressure)		SCE	-	-				-	100.00%	0.00%
	Shutdown Valves		SCE	2.00	2	201,168	600	9.94194E-06	0.00	99.41%	0.24%
	Shutoff Valves		SCE	2.00	-	201,168	600	0	0.00	100.00%	0.24%
	Combustion Engine, Rotating Eq. & Machinery										
	After Cooler Fan A		BCE	-	-	-	-		-	100.00%	0.00%
	After Cooler Fan B		BCE	-	-	-	-		-	100.00%	0.00%
	After Cooler Fan C		BCE	-	-	-	-		-	100.00%	0.00%
	Air Compressor A		BCE	-	-	-	-		-	100.00%	0.00%
	Air Compressor B		BCE	-	-	-	-		-	100.00%	0.00%
	DEG		BCE	-	-	-	-		-	100.00%	0.00%
	Gas Compressor A		BCE	-	-	-	-		-	100.00%	0.00%
	Gas Compressor B		BCE	-	-	-	-		-	100.00%	0.00%
	Gas Compressor C		BCE	-	-	-	-		-	100.00%	0.00%
	Gas Turbine A		BCE	-	-	-	-		-	100.00%	0.00%
	Gas Turbine B		BCE	-	-	-	-		-	100.00%	0.00%
	Gas Turbine C		BCE	-	-	-	-		-	100.00%	0.00%
	GEG A		BCE	-	-	-	-		-	100.00%	0.00%
	GEG B		BCE	-	-	-	-		-	100.00%	0.00%
	Lube Oil Cooler Fan A		BCE	-	-	-	-		-	100.00%	0.00%
	Lube Oil Cooler Fan B		BCE	-	-	-	-		-	100.00%	0.00%
	Lube Oil Cooler Fan C		BCE	-	-	-	-		-	100.00%	0.00%
	Mainpump WTP		BCE	-	-	-	-		-	100.00%	0.00%
				-							
	Instruments & Control			-							
	Analyzer (Dew Point)		BCE	-	-				-	100.00%	0.00%
	Analyzer (Gas)		BCE	2.00	-	199,690	600	0	0.00	100.00%	0.24%
	Analyzer (H2O)		BCE	4.00	-	399,704	600	0	0.00	100.00%	0.48%
	Analyzer (H2S)		BCE	4.00	3	399,704	600	7.50555E-06	0.00	99.55%	0.47%
	Analyzer (Total Sulfur)		BCE	-	-				-	100.00%	0.00%
	DCS (Distributed Control System)		BCE	-	-				-	100.00%	0.00%

Category	Asset	Tag Number	Classification	Number of Asset	Number of Cummulative Failures	Aggregate Time in Service	Operating (Mission) Time	Failure Rate	Weight Factor	Population NCr Reliability Estimation	NCr Reliability
			SCE / BCE	(Unit)	(N - Failures)	(Hours)	(Hours)	(Failure/Hours)			99.94%
	Flow Com		BCE	4.00	-	399,704	600	0	0.00	100.00%	0.48%
	Gas Chromatograph		BCE	4.00	4	399,704	600	1.00074E-05	0.00	99.40%	0.47%
	Indicator (Pressure)		BCE	4.00	-	399,704	600	0	0.00	100.00%	0.48%
	Indicator (Temperature)		BCE	38.00	-	3,793,920	600	0	0.05	100.00%	4.52%
	Meter (Orrifice)		BCE	-	-				-	100.00%	0.00%
	Meter (Rotary)		BCE	-	-				-	100.00%	0.00%
	Meter (Rumah Tangga)		BCE	-	-				-	100.00%	0.00%
	Meter (Turbine)		BCE	-	-				-	100.00%	0.00%
	Meter (Ultrasonic)		BCE	4.00	-	400,344	600	0	0.00	100.00%	0.48%
	PLC (Programmable Logic Control)		BCE	2.00	2	199,680	600	1.0016E-05	0.00	99.40%	0.24%
	Regulator		BCE	4.00	4	399,744	600	1.00064E-05	0.00	99.40%	0.47%
	Transmitter (DP)		BCE	6.00	-	599,040	600		0.01	100.00%	0.71%
	Transmitter (Level)		BCE	3.00	-	297,288	600		0.00	100.00%	0.36%
	Transmitter (Pressure)		BCE	38.00	2	3,793,920	600	5.27159E-07	0.05	99.97%	4.52%
	Transmitter (Temperature)		BCE	7.00	2	698,880	600	2.86172E-06	0.01	99.83%	0.83%
				-							
	Electrical			-							
	Automatic Transfer Switch (ATS)		BCE	1.00	-	100,684	600	0	0.00	100.00%	0.12%
	Battery Bank GEG & DEG		BCE	-	-				-	100.00%	0.00%
	Battery Bank GTCP		BCE	-	-				-	100.00%	0.00%
	Electric Heater (Fuel Gas Conditioning Unit)		BCE	-	-				-	100.00%	0.00%
	Lightning Protection System (LPS)		BCE	6.00	-	564,384	600	0	0.01	100.00%	0.71%
	Loadbank		BCE	-	-				-	100.00%	0.00%
	Switchgear		BCE	-	-				-	100.00%	0.00%
	Transformator (MCC Heater Panel)		BCE	-	-				-	100.00%	0.00%
	UPS		BCE	4.00	1	402,320	600	2.48558E-06	0.00	99.85%	0.48%
	UPS Battery		BCE	312.00	2	297,151,568	600	6.73057E-09	0.37	100.00%	37.14%
				-							
	Pressurise Equipment & Tank			-							
	Air Dryer Package		BCE	2.00	-	199,680	600	0	0.00	100.00%	0.24%
	Air Utility Tank		BCE	1.00	-	99,840	600	0	0.00	100.00%	0.12%
	Fuel Tank		BCE	1.00	-	99,840	600	0	0.00	100.00%	0.12%
	Gas Filter Separator		BCE	6.00	-	599,040	600	0	0.01	100.00%	0.71%
	IFWBH		BCE	-	-				-	100.00%	0.00%
	Instrument Air Receiver Tank		BCE	1.00	-	99,840	600	0	0.00	100.00%	0.12%
	Odorizer		BCE	2.00	-	199,680	600	0	0.00	100.00%	0.24%
	Scrubber		BCE	2.00	-	199,680	600	0	0.00	100.00%	0.24%
	Slug Catcher		BCE	1.00	2	99,840	600	2.00321E-05	0.00	98.81%	0.12%
	Sump Tank		BCE	1.00	-	99,840	600	0	0.00	100.00%	0.12%
				-							
	Fire & Gas - Safety			-							
	BFAP (Building Fire Alarm Panel)		SCE	1.00	-	99,840	600	0	0.00	100.00%	0.12%

Category	Asset	Tag Number	Classification	Number of Asset	Number of Cummulative Failures	Aggregate Time in Service	Operating (Mission) Time	Failure Rate	Weight Factor	Population NCr Reliability Estimation	NCr Reliability
			SCE / BCE	(Unit)	(N - Failures)	(Hours)	(Hours)	(Failure/Hours)			99.94%
	CO2 Fire Suppression (Enclosure GT)		SCE	-	-				-	100.00%	0.00%
	Fire Hydrant (Hydrant Pillar, Hose, etc)		SCE	1.00	-	45,696	600	0	0.00	100.00%	0.12%
	Fire Monitor		SCE	6.00	6	73,728	600	8.13802E-05	0.01	95.23%	0.68%
	Fire Pump (Diesel)		SCE	2.00	2	199,680	600	1.0016E-05	0.00	99.40%	0.24%
	Fire Pump (Electric)		SCE	-	-				-	100.00%	0.00%
	Fire Pump (Jockey)		SCE	1.00	1	12,288	600	8.13802E-05	0.00	95.23%	0.11%
	Flame Detector (UV/IR)		SCE	2.00	-	199,680	600	0	0.00	100.00%	0.24%
	FM 200 Fire Suppression		SCE	6.00	-	599,040	600	0	0.01	100.00%	0.71%
	Fusible Loop (Aftercooler)		SCE	-	-				-	100.00%	0.00%
	Gas Detector	81-GD-3	SCE	12.00	1	199,430	600	5.01429E-06	0.01	99.70%	1.42%
	Heat Detector		SCE	13.00	-	1,222,416	600	0	0.02	100.00%	1.55%
	PA/GA (Public Address / General Alarm)		SCE	-	-				-	100.00%	0.00%
	SFAP (Station Fire Alarm Panel)		SCE	2.00	-	199,680	600	0	0.00	100.00%	0.24%
	Smoke Detector		SCE	23.00	-	2,296,320	600	0	0.03	100.00%	2.74%
				-							
	Pipelines			-							
	Steel Pipe 32 Inch/15.9 mm		BCE	158.00	-	91,920	600		0.19	100.00%	18.81%
Jaringan	Steel/PE Pipe .....Inch/ .....mm		BCE	-	-	-	-		-	100.00%	0.00%
	Steel/PE Pipe .....Inch/ .....mm		BCE	-	-	-	-		-	100.00%	0.00%
	Steel/PE Pipe .....Inch/ .....mm		BCE	-	-	-	-		-	100.00%	0.00%
	Steel/PE Pipe .....Inch/ .....mm		BCE	-	-	-	-		-	100.00%	0.00%
	Steel/PE Pipe .....Inch/ .....mm		BCE	-	-	-	-		-	100.00%	0.00%
	Steel/PE Pipe .....Inch/ .....mm		BCE	-	-	-	-		-	100.00%	0.00%
	Steel/PE Pipe .....Inch/ .....mm		BCE	-	-	-	-		-	100.00%	0.00%
	Steel/PE Pipe .....Inch/ .....mm		BCE	-	-	-	-		-	100.00%	0.00%
	Steel/PE Pipe .....Inch/ .....mm		BCE	-	-	-	-		-	100.00%	0.00%
	Steel/PE Pipe .....Inch/ .....mm		BCE	-	-	-	-		-	100.00%	0.00%
	Steel/PE Pipe .....Inch/ .....mm		BCE	-	-	-	-		-	100.00%	0.00%
	Steel/PE Pipe .....Inch/ .....mm		BCE	-	-	-	-		-	100.00%	0.00%
	Steel/PE Pipe .....Inch/ .....mm		BCE	-	-	-	-		-	100.00%	0.00%
	Steel/PE Pipe .....Inch/ .....mm		BCE	-	-	-	-		-	100.00%	0.00%
	Pig Launcher		BCE	-	-	-	-		-	100.00%	0.00%
	Pig Receiver		BCE	1.00	-	91,920	600		0.00	100.00%	0.12%
				-							
	Valves			-							
	Sectional Valves		BCE	-	-	-	-		-	100.00%	0.00%
	Branch Valves		BCE	-	-	-	-		-	100.00%	0.00%

Category	Asset	Tag Number	Classification	Number of Asset	Number of Cummulative Failures	Aggregate Time in Service	Operating (Mission) Time	Failure Rate	Weight Factor	Population NCr Reliability Estimation	NCr Reliability
			SCE / BCE	(Unit)	(N - Failures)	(Hours)	(Hours)	(Failure/Hours)			99.94%
	Line Valves		BCE	-	-	-	-		-	100.00%	0.00%
	Venting Valves		BCE	-	-	-	-		-	100.00%	0.00%
				-							
	Proteksi Katodik			-							
	Transformer Rectifier		BCE	-	-	-	-		-	100.00%	0.00%
	Sacrificial Anode		BCE	4.00	-	91,920	600		0.00	100.00%	0.48%
	Test Point		BCE	4.00	-	91,920	600		0.00	100.00%	0.48%
	Junction Box		BCE	4.00	-	91,920	600		0.00	100.00%	0.48%
				-							
	Others			-							
	Jembatan		BCE	-	-	-	-		-	100.00%	0.00%

LAMPIRAN 17.2.T.13 FORMULIR RELIABILITY NON CRITICAL EQUIPMENT TSJ - JAWA BAGIAN BARAT - BOJONEGARA

	Total Jumlah Aset	928.30									
Category	Asset	Tag Number	Classification	Number of Asset	Number of Cummulative Failures	Aggregate Time in Service	Operating (Mission) Time	Failure Rate	Weight Factor	Population NCr Reliability Estimation	NCr Reliability
			SCE / BCE	(Unit)	(N - Failures)	(Hours)	(Hours)	(Failure/Hours)			100.00%
Fasilitas	Valves										
	Ball Valves		BCE	201	-	19,566,048	600	0	0.22	100.00%	21.65%
	Blowdown Valves		BCE	-	-				-	100.00%	0.00%
	Check Valves		BCE	7.00	-	512,706	600	0	0.01	100.00%	0.75%
	Hand Control Valves		BCE	4.00	-	295,142	600	0	0.00	100.00%	0.43%
	P/F/L Control Valves		BCE	5.00	-	255,360	600	0	0.01	100.00%	0.54%
	Relief Valves		SCE	8.00	-	585,624	600	0	0.01	100.00%	0.86%
	Safety Valves (Pressure)		SCE	13.00	-	905,664	600	0	0.01	100.00%	1.40%
	Shutdown Valves		SCE	6.00	-	440,328	600	0	0.01	100.00%	0.65%
	Shutoff Valves		SCE	4.00	-	295,032	600	0	0.00	100.00%	0.43%
	Combustion Engine, Rotating Eq. & Machinery										
	After Cooler Fan A		BCE	-	-	-	-		-	100.00%	0.00%
	After Cooler Fan B		BCE	-	-	-	-		-	100.00%	0.00%
	After Cooler Fan C		BCE	-	-	-	-		-	100.00%	0.00%
	Air Compressor A		BCE	-	-	-	-		-	100.00%	0.00%
	Air Compressor B		BCE	-	-	-	-		-	100.00%	0.00%
	DEG		BCE	-	-	-	-		-	100.00%	0.00%
	Gas Compressor A		BCE	-	-	-	-		-	100.00%	0.00%
	Gas Compressor B		BCE	-	-	-	-		-	100.00%	0.00%
	Gas Compressor C		BCE	-	-	-	-		-	100.00%	0.00%
	Gas Turbine A		BCE	-	-	-	-		-	100.00%	0.00%
	Gas Turbine B		BCE	-	-	-	-		-	100.00%	0.00%
	Gas Turbine C		BCE	-	-	-	-		-	100.00%	0.00%
	GEG A		BCE	-	-	-	-		-	100.00%	0.00%
	GEG B		BCE	-	-	-	-		-	100.00%	0.00%
	Lube Oil Cooler Fan A		BCE	-	-	-	-		-	100.00%	0.00%
	Lube Oil Cooler Fan B		BCE	-	-	-	-		-	100.00%	0.00%
	Lube Oil Cooler Fan C		BCE	-	-	-	-		-	100.00%	0.00%
	Mainpump WTP		BCE	-	-	-	-		-	100.00%	0.00%
				-							
	Instruments & Control			-							
	Analyzer (Dew Point)		BCE	-	-				-	100.00%	0.00%
	Analyzer (Gas)		BCE	-	-				-	100.00%	0.00%
	Analyzer (H2O)		BCE	2.00	-	149,736	600	0	0.00	100.00%	0.22%
	Analyzer (H2S)		BCE	2.00	2	149,736	600	1.33568E-05	0.00	99.20%	0.21%
	Analyzer (Total Sulfur)		BCE	-	-				-	100.00%	0.00%
	DCS (Distributed Control System)		BCE	-	-				-	100.00%	0.00%
	Flow Com		BCE	6.00	-	440,328	600	0	0.01	100.00%	0.65%

Category	Asset	Tag Number	Classification	Number of Asset	Number of Cummulative Failures	Aggregate Time in Service	Operating (Mission) Time	Failure Rate	Weight Factor	Population NCr Reliability Estimation	NCr Reliability
			SCE / BCE	(Unit)	(N - Failures)	(Hours)	(Hours)	(Failure/Hours)			100.00%
	Gas Chromatograph		BCE	2.00	1	149,736	600	6.67842E-06	0.00	99.60%	0.21%
	Indicator (Pressure)		BCE	39.00	-	3,848,592	600	0	0.04	100.00%	4.20%
	Indicator (Temperature)		BCE	9.00	-	450,912	600	0	0.01	100.00%	0.97%
	Meter (Orrifice)		BCE	4.00	-	295,032	600	0	0.00	100.00%	0.43%
	Meter (Rotary)		BCE	-	-				-	100.00%	0.00%
	Meter (Rumah Tangga)		BCE	-	-				-	100.00%	0.00%
	Meter (Turbine)		BCE	-	-				-	100.00%	0.00%
	Meter (Ultrasonic)		BCE	2.00	2	149,736	600	1.33568E-05	0.00	99.20%	0.21%
	PLC (Programmable Logic Control)		BCE	2.00	-	149,736	600	0	0.00	100.00%	0.22%
	Regulator		BCE	-	-				-	100.00%	0.00%
	Transmitter (DP)		BCE	11.00	-	803,568	600	0	0.01	100.00%	1.18%
	Transmitter (Level)		BCE	5.00	-	419,520	600	0	0.01	100.00%	0.54%
	Transmitter (Pressure)		BCE	34.00	-	2,475,008	600	0	0.04	100.00%	3.66%
	Transmitter (Temperature)		BCE	13.00	-	949,384	600	0	0.01	100.00%	1.40%
				-							
	Electrical			-							
	Automatic Transfer Switch (ATS)		BCE	2.00	-	201,576	600	0	0.00	100.00%	0.22%
	Battery Bank GEG & DEG		BCE	-	-				-	100.00%	0.00%
	Battery Bank GTCP		BCE	-	-				-	100.00%	0.00%
	Electric Heater (Fuel Gas Conditioning Unit)		BCE	-	-				-	100.00%	0.00%
	Lightning Protection System (LPS)		BCE	2.00	-	201,576	600	0	0.00	100.00%	0.22%
	Loadbank		BCE	-	-				-	100.00%	0.00%
	Switchgear		BCE	1.00	-	103,008	600	0	0.00	100.00%	0.11%
	Transformator (MCC Heater Panel)		BCE	-	-				-	100.00%	0.00%
	UPS		BCE	4.00	-	208,632	600	0	0.00	100.00%	0.43%
	UPS Battery		BCE	324.00	-	23,542,392	600	0	0.35	100.00%	34.90%
				-							
	Pressurise Equipment & Tank			-							
	Air Dryer Package		BCE	-	-				-	100.00%	0.00%
	Air Utility Tank		BCE	-	-				-	100.00%	0.00%
	Fuel Tank		BCE	2.00	-	106,536	600	0	0.00	100.00%	0.22%
	Gas Filter Separator		BCE	3.00	-	231,012	600	0	0.00	100.00%	0.32%
	IFWBH		BCE	-	-				-	100.00%	0.00%
	Instrument Air Receiver Tank		BCE	-	-				-	100.00%	0.00%
	Odorizer		BCE	1.00	-	103,008	600	0	0.00	100.00%	0.11%
	Scrubber		BCE	2.00	-	201,576	600	0	0.00	100.00%	0.22%
	Slug Catcher		BCE	1.00	-	103,008	600	0	0.00	100.00%	0.11%
	Sump Tank		BCE	2.00	-	175,656	600	0	0.00	100.00%	0.22%
				-							
	Fire & Gas - Safety			-							
	BFAP (Building Fire Alarm Panel)		SCE	6.00	-	440,328	600	0	0.01	100.00%	0.65%
	CO2 Fire Suppression (Enclosure GT)		SCE	-	-				-	100.00%	0.00%
	Fire Hydrant (Hydrant Pillar, Hose, etc)		SCE	1.00	-	16,728	600	0	0.00	100.00%	0.11%
	Fire Monitor		SCE	-	-				-	100.00%	0.00%

Category	Asset	Tag Number	Classification	Number of Asset	Number of Cummulative Failures	Aggregate Time in Service	Operating (Mission) Time	Failure Rate	Weight Factor	Population NCr Reliability Estimation	NCr Reliability
			SCE / BCE	(Unit)	(N - Failures)	(Hours)	(Hours)	(Failure/Hours)			100.00%
	Fire Pump (Diesel)		SCE	2.00	-	29,016	600	0	0.00	100.00%	0.22%
	Fire Pump (Electric)		SCE	-	-				-	100.00%	0.00%
	Fire Pump (Jockey)		SCE	-	-				-	100.00%	0.00%
	Flame Detector (UV/IR)		SCE	9.00	-	658,212	600	0	0.01	100.00%	0.97%
	FM 200 Fire Suppression		SCE	8.00	-	585,624	600	0	0.01	100.00%	0.86%
	Fusible Loop (Aftercooler)		SCE	-	-				-	100.00%	0.00%
	Gas Detector		SCE	11.00	-	803,568	600	0	0.01	100.00%	1.18%
	Heat Detector		SCE	26.00	-	1,893,528	600	0	0.03	100.00%	2.80%
	PA/GA (Public Address / General Alarm)		SCE	-	-				-	100.00%	0.00%
	SFAP (Station Fire Alarm Panel)		SCE	4.00	-	295,032	600	0	0.00	100.00%	0.43%
	Smoke Detector		SCE	34.00	-	2,449,176	600	0	0.04	100.00%	3.66%
	Pipelines										
	Steel Pipe 32 Inch/ 19.05 mm		BCE	61.30	-	17,448	600		0.07	100.00%	6.60%
Jaringan	Steel Pipe 32 Inch/ 22.225 mm		BCE	40.00	-	17,448	600		0.04	100.00%	4.31%
	Steel/PE Pipe .....Inch/ .....mm		BCE	-	-	-	-		-	100.00%	0.00%
	Steel/PE Pipe .....Inch/ .....mm		BCE	-	-	-	-		-	100.00%	0.00%
	Steel/PE Pipe .....Inch/ .....mm		BCE	-	-	-	-		-	100.00%	0.00%
	Steel/PE Pipe .....Inch/ .....mm		BCE	-	-	-	-		-	100.00%	0.00%
	Steel/PE Pipe .....Inch/ .....mm		BCE	-	-	-	-		-	100.00%	0.00%
	Steel/PE Pipe .....Inch/ .....mm		BCE	-	-	-	-		-	100.00%	0.00%
	Steel/PE Pipe .....Inch/ .....mm		BCE	-	-	-	-		-	100.00%	0.00%
	Steel/PE Pipe .....Inch/ .....mm		BCE	-	-	-	-		-	100.00%	0.00%
	Steel/PE Pipe .....Inch/ .....mm		BCE	-	-	-	-		-	100.00%	0.00%
	Steel/PE Pipe .....Inch/ .....mm		BCE	-	-	-	-		-	100.00%	0.00%
	Steel/PE Pipe .....Inch/ .....mm		BCE	-	-	-	-		-	100.00%	0.00%
	Steel/PE Pipe .....Inch/ .....mm		BCE	-	-	-	-		-	100.00%	0.00%
	Steel/PE Pipe .....Inch/ .....mm		BCE	-	-	-	-		-	100.00%	0.00%
	Pig Launcher		BCE	1.00	-	51,888	600	0	0.00	100.00%	0.11%
	Pig Receiver		BCE	1.00	-	103,008	600	0	0.00	100.00%	0.11%
				-							
	Valves			-							
	Sectional Valves		BCE	-	-	-	-		-	100.00%	0.00%
	Branch Valves		BCE	-	-	-	-		-	100.00%	0.00%
	Line Valves		BCE	-	-	-	-		-	100.00%	0.00%
	Venting Valves		BCE	-	-	-	-		-	100.00%	0.00%
				-							
	Proteksi Katodik			-							

Category	Asset	Tag Number	Classification	Number of Asset	Number of Cummulative Failures	Aggregate Time in Service	Operating (Mission) Time	Failure Rate	Weight Factor	Population NCr Reliability Estimation	NCr Reliability
			SCE / BCE	(Unit)	(N - Failures)	(Hours)	(Hours)	(Failure/Hours)			100.00%
	Transformer Rectifier		BCE	-	-	-	-		-	100.00%	0.00%
	Sacrificial Anode		BCE	-	-	-	-		-	100.00%	0.00%
	Test Point		BCE	-	-	-	-		-	100.00%	0.00%
	Junction Box		BCE	1.00	-	907,248	600	0	0.00	100.00%	0.11%
				-							
	Others			-							
	Jembatan		BCE	-	-	-	-		-	100.00%	0.00%

LAMPIRAN 17.2.T.14 FORM FAILURE RECORDING

Record No**	Asset Name	Tag No**	Commissioning Date***	Failure Date**	Failure Mode**	Failure impact on equipment function *(a) **	Failure Cause	Subunit failed	Component/ Maintainable item(s) failed	Maintenance Section	Operating condition at failure *(b)	Repair Time (Hours)	Running Hours at Failure (Hours)****	Status	Remarks
001/FAILURE/GRS	UPS	11-UPS-5050B	18 Oktober 2007	03 Januari 2018	UPS B Failed	Critical Failure	Alarm system fault, inverter fault	UPS B Grissik Station	Contactor and all card control need to be replaced due to lifetime	Replace contactor K7	Offline	1 hours	89530	Closed (24 Maret 2018)	
002/FAILURE/GRS	Smoke Detector	Area Office room	18 Oktober 2007	1 Februari 2018	Smoke detector error	Degraded failure	Alarm monitor smoke detector office room	Interface Module Station Office Building (20-03-0004)	Interface modul need to be replaced		standby	1 hours	90216	Closed (1 Februari 2018)	
003/FAILURE/GRS	DEG	11-DEG-5020	18 Oktober 2007	29 Mei 2018	DEG Failed	Degraded failure	alarm SD Batt flat	Battery dan Motor starter	Recharge battery & replace motor starter	Replace	standby	4 hours	84632	Closed (30 Mei 2018)	
004/FAILURE/GRS	DEG	11-DEG-5020	18 Oktober 2007	28 April 2014	DEG Failed	Degraded failure	DEG pickup fail	MPU	Engine speed magnetic pickup need to be replaced	Install new MPU unit	offline	0.5 hours	3264	Closed (10 September 2014)	
005/FAILURE/GRS	DEG	11-DEG-5020	18 Oktober 2007	11 Januari 2016	DEG Failed	Degraded failure	No output voltage	Automatic Voltage Regulator (AVR)	AVR need to be replaced	Install new AVR unit	offline	2 hours	864	Closed (20 Agustus 2016)	
006/FAILURE/GRS	DEG	11-DEG-5020	18 Oktober 2007	09 November 2017	DEG Failed	Degraded failure	alarm on display panel "SD Vg 1 Under Voltage, SD Vg 2 Under Voltage & SD Vg 3 Under Voltage and Battery Flat"	Battery and motor starter	Battery and motor starter need to be replaced	Install new battery and motor starter unit	offline	1 hours	144	Closed (15 November 2017)	
007/FAILURE/GRS	Solenoid FM200	-	18 Oktober 2007	17-Sep-18	Solenoid failed	Degraded Failure	Lifetime	Solenoid FM200 for electrical room	Solenoid need to be replace	Install new solenoid unit	Standby	1 hours	16584	Closed (17 September 2018)	
008/FAILURE/GRS	Photocell	-	18 Oktober 2007	20 Oktober 2018	Photocell failed	Incipient Failure	Lifetime	Photocell on 11-LPDB-5033	Photocell need to be replaced	Install new photocell	Standby	0.5 hours	40	Closed (22 Oktober 2018)	
001/FAILURE/TLD	UPS	12-UPS-5050B	8 November 2013	30 Oktober 2017	UPS B Failed	Critical Failure	Alarm RAM1 Checksum Error	RAM1	RAM1 need to be reconfigure		idle	-	34848	Open	
002/FAILURE/TLD	Fix Gas Detector	Fix Gas Detector	1 Oktober 2011	08 Januari 2018	Fail to Function on Demand	Critical Failure	Lifetime	FGD Metering Area	FGD need to be replaced	Replace	Offline		54994	Open	
003/FAILURE/TLD	Pressure Transmitter	12-PT-1308B	1 Oktober 2011	20 Februari 2018	Display PT not clear	Incipient Failure	Lifetime	PT Voting logic downstream	PT need to be replaced	Replace	standby	0.5 hours	56016	Closed (20 Februari 2018)	
004/FAILURE/TLD	Pressure Indikator	12-PI-1303B	1 Oktober 2011	1 Maret 2018	Abnormal Instrument Reading	degraded failure	Lifetime	-	PI need to be replaced	Replace	standby	0.5 hours		Closed (1 Maret 2018)	
005/FAILURE/TLD	Expantion Joint DEG	-	2014	-	Crack pada expantion joint exhaust	Incipient Failure	Lifetime	-	Expantion joint need to be replaced	Replace	standby	0.5 hours	21552	Closed (26 April 2018)	
006/FAILURE/TLD	SDV	12-SDV-1301	1 Oktober 2011	17 Februari 2015	Manual SDV not function	degraded failure	Sirkulasi oli tidak lancar	Manual handpump	Manual Handpump need to be modification	Modification	Online	2 hours		Closed	
007/FAILURE/TLD	PCV	12-F/PCV-1301A	29 September 2014	10 Februari 2016	PCV Failed	Critical Failure	Opening valve stuck	-	PCV need to be calibrated	Calibration	standby	0.5 hours	11256	Closed	
008/FAILURE/TLD	Flowcomp	12-FC-1301	1 Oktober 2011	17 Juli 2018	Hasil perhitungan pemakaian gas pada waktu yang tidak tertentu stuck dan terakumulasi pada jam berikutnya	Unknown	-	-	-	Replace	Online	-	59904	Closed Nilai terakumulasi termasuk anomali namun tidak termasuk koreksi	
009/FAILURE/TLD	UPS	12-UPS-5050A	8 November 2013	31 Agustus 2018	UPS A Normal Operation, but battere discharge	Incipient Failure	Alarm rectifier failure dan battery discharge	CT P009	CTP009 need to be replaced	Replace	Online	2 hours	33432	Closed CT P009 swap with CT P007, CT P007 disabled	
010/FAILURE/TLD	UPS	12-UPS-5050B	8 November 2013	23 Agustus 2016	UPS B terindikasi alarm No Redundant	Incipient Failure	Communication cable loose	Communication Cable	Communication cable need to be repaired	Repair	Online	0.5 hours	24480	Closed	
011/FAILURE/TLD	PLC	12-PLC-A	1 Oktober 2011	16 Mei 2016	PLC Failed	Incipient Failure	Module Digital Input failed	Module Digital Input	Module Digital Input need to be replaced	Replace	Online	2 hours	40560	Closed	
012/FAILURE TLD	Ball Valve	12-BV-1309B	1 Oktober 2011	21 Juni 2018	Fail To Close	incipient Failure	Lifetime	Bearing	Bearing need to be replaced	Replace	standby	2 hours	58929	Closed (21 Juni 2018)	
013/FAILURE/TLD	Pressure Tansmitter	12-PT-1301B dan 12-PT-1308A	1 Oktober 2011	18 Oktober 2018	Display pada Pressure Transmitter tidak terbaca/kabur	Incipient Failure	Lifetime	Pressure Transmitter	PT need to be replaced	Replace	Running	2.5 hours	61800	"Closed (18 Oktober 2018)"	
014/FAILURE/TLD	Fix Gas Detector	-	1 Oktober 2011	23 Januari 2019	FTF (Failure to function on demand)	Degraded Failure	Kerusakan pada internal instrumen gas detector	Fix Gas Detector area odorizer	need to be replaced with the new one without issue	Claim to vendor	Idle			Open (Proses CLaim to Vendor)	
001/FAILURE/SPG	Smoke Detector	Area Control room 2	1 Agustus 2007	23 February 2018	Smoke detector error	degraded failure	Alarm monitor smoke detector control room 2	Notifier F&G system	Smoke detector need to be replaced	Smoke detector has been replaced	Stand by	1 hours	1281600	Closed (23 February 2018)	
002/FAILURE/SPG	Heat Detector	Battery room	1 Agustus 2007	25 February 2018	Heat etector error	degraded failure	Alarm monitor heat detector battery room	Notifier F&G system	Heat detector need to be replaced	Heat detector has been replaced	Stand by	1 hours	1281600	Closed (25 February 2018)	
003/FAILURE/SPG	UPS A	31-UPS-5050A	1 Agustus 2007	24 Mei 2018	Failed	Critical Failure	canot Back up	SPG PAgardewa	control card	need recheck by vendor, several part has been replaced at December 2017	Stand by		94248	Open	
004/FAILURE/SPG	UPS B	31-UPS-5050A	1 Agustus 2007	24 Mei 2018	Fail To Function On Demand	Critical Failure	canot Back up	SPG PAgardewa	control card	need to replace	Stand by		94248	Open	
005/FAILURE/SPG	DEG SPG	31-DEG-5020	1 Agustus 2007	25 Juni 2018	Fail to crank	degraded failure	Battery DEG lack of power	DEG SPG	Battery need to be replaced	Replace battery	Stand by	1 hours	94812	Closed (27 Juni 2018)	
006/FAILURE/SPG	Battery UPS Rack B	Rack B	1 Agustus 2007	28 mei 2018	Breaker Rack B switch off	Degraded Failure	baterry damage	Battery Rack B SPG	Battery need to be replaced	UPS only use one bank (Rack A)	Offline	2 hours	94056	Open	
007/FAILURE/SPG	DEG SPG	31-DEG-5019	1 Agustus 2007	13 mei 2018	Fail to crank	Degraded Failure	Battery DEG lack of power	DEG SPG	Battery need to be replaced	refill accu zuur and recharging	Stand by	24 hours	94812	Closed (13 mei 2018)	
008/FAILURE/SPG	Battery UPS Rack A	Rack A	1 Agustus 2007	18 september 2017	Faulty Output Voltage	Degraded Failure	baterry damage	Battery Rack A SPG	Battery need to be replaced	Replace battery (68 unit)	Offline	2 hours	94056	Closed (28 oktober 2017)	
009/FAILURE/SPG	Battery UPS Rack B	Rack B	1 Agustus 2007	18 September 2017	Faulty Output Voltage	Degraded Failure	baterry damage	Battery Rack B SPG	Battery need to be replaced	collect functionable batteries from rack A&B	Offline	2 hours	94056	Closed (28 oktober 2017)	
010/FAILURE/SPG	adaptor Modul field serve	FA-E-007	1 Agustus 2007	31 Juli 2017	FM200 can not release automatically	Critical Failure	ule off (failed) due to adaptor pov	FM 200 Fire Suppression	adaptor need to be replaced	replace adaptor modul	Idle	0,5 Hours	-	Close (05 Oktober 2017)	
011/FAILURE/SPG	Panel Notifier	Panel Notifier	1 Agustus 2007	08 Desember 2017	F&G System is not running	Critical Failure	Power Supply damage	F&G system	PSU need to be replaced	replace Power Supply Unit	idle	2 hours	-	Close (24 desember 2017)	

Record No**	Asset Name	Tag No**	Commissioning Date***	Failure Date**	Failure Mode**	Failure impact on equipment function *(a) **	Failure Cause	Subunit failed	Component/ Maintainable item(s) failed	Maintenance Section	Operating condition at failure *(b)	Repair Time (Hours)	Running Hours at Failure (Hours)****	Status	Remarks
012/FAILURE/SPG	Fix Gas Detector	area louncher	1 Agustus 2007	20 September 2016	failed	Degraded Failure	Lifetime	area launcher	need to be replaced	replace fix gas detector	Offline	0,5 Hours	-	Close	
013/FAILURE/SPG	Fix Gas Detector	area louncher	1 Agustus 2007	20 September 2016	failed	Degraded Failure	Lifetime	area launcher	need to be replaced	replace fix gas detector	Offline	0,5 Hours	-	Close	
014/FAILURE/SPG	HC Dew Point	31-AT-1011	1 Agustus 2007	14 Mei 2015	off line	disconect to RTU	lightning struck	HC dew point analyzer	Power supply, display, mainboard need to be replace	replace Power Supply, mainboard & display	Offline	2 housr	-	closed (21 desember 2015)	
015/FAILURE/SPG	Total Sulphur	31-AT-1010	1 Agustus 2007	04 Agustus 2013	failed	failed analysys	short circuit	Total Sulphur Analyzer	furnace glass need to be replaced	replace furnace glass	Idle	1 hours	-	closed (04 Agustus 2013)	
016/FAILURE/SPG	Total Sulphur	31-AT-1011	1 Agustus 2007	17 November 2013	offline	offline	short circuit	Total Sulphur Analyzer	furnace glass need to be replaced	replace furnace glass	Idle	1 hours	-	closed (17 November 2013)	
017/FAILURE/SPG	Total Sulphur	31-AT-1012	1 Agustus 2007	13 Juni 2015	failed	error Analysys	Lifetime	Total Sulphur Analyzer	display error	replace display sensor, reseting mainboard &Scada, replace furnace galss	Idle	2 hours	-	closed (13 Juni 2015)	
018/FAILURE/SPG	Total Sulphur	31-AT-1013	1 Agustus 2017	21 September 2015	offline	stuck analysys	Lifetime	Total Sulphur Analyzer	display unit need to be replaced	display unit need to be replaced	Idle	2 hours	-	closed (21 September 2015)	
019/FAILURE/SPG	Total Sulphur	31-AT-1013	1 Agustus 2017	04 Januari 2016	failed	error Analysys	Lifetime	Total Sulphur Analyzer	flow meter and presure regulator need to be replace	replase flow meter and presure regulator	Offline	1 hours	-	closed (04 Januari 2016)	
020/FAILURE/SPG	Ball Valve	31-BV-1020	1 Agustus 2017	03 Juni 2013	Display blinking	upnormal	Lifetime	Ball Valve	Rotary Switch need to be repair	repair rotary switch	idle	1 hours	-	closed (03 Juni 2013)	
021/FAILURE/SPG	PDB	31-UPS-5050B	1 Agustus 2007	3 Desember 2018	Pilot lamp feeder 31-UPS 5050B inactive	-	Broken fuse	Pilot lamp	Fuse	Fuse need to be replaced	idle	1 hours		closed (03 Desember 2018)	
001/FAILURE/MET	UPS	33-UPS-5050A	1 Agustus 2007	15 Desember 2016	UPS A Failed	degraded failure	UPS A fail , can not back up, only charge, card control lifetime	UPS A metering	all control card should be replaced due to life time. Equipment has been	all control card & contactor have been replaced at 6th February 2018	standby	12 hours	92256	Closed (7 Februari 2018)	
002/FAILURE/MET	USM	33-FT-1350A	1 Agustus 2008	15 Agustus 2017	USM Failed	degraded failure	path tranducer error	USM A copi line	1 Set tranducer has been replaced but still no data reading, need to be		idle		84000	Open	
003/FAILURE/MET	ADAM Converter 4572	-	1 Agustus 2007	19 February 2018	Connection to anlyzer Fail	degraded failure	ADAM Converter 4572 broke	ADAM Converter 4572	ADAM Converter 4572 need to be replaced		Idle	0.5 hours	94224	Closed (19 February 2018)	
004/FAILURE/MET	H2S Analyzer B	33-AT-1351B	1 Agustus 2007	23 February 2018	Alarm on Station Computer	degraded failure	Lead acetate tape need to be replaced	H2S Analyzer B	Lead acetate tape need to be replaced	Lead acetate tape has been replaced	Idle	0.5 hours	85419	Closed (23 February 2018)	
005/FAILURE/MET	HCV	33-HCV-1033	1 Agustus 2007	25 February 2018	33-HCV-1033 Blinking on SCADA	degraded failure	inside rotary switch drowned	Rotary switch	Terminal inside rotary switch need to be replaced	Rotary switch has been cleaned and terminal has been replaced	Stand by	1 hours	94224	Closed (25 February 2018)	
006/FAILURE/MET	BV	33-BV-1352B & 33-BV-1350A	1 Agustus 2007	17 Maret 2018	linking on SCADA and Station Compute	Incipient Failure	Incorrect position of magnetic switch	Magnetic switch	Incorrect position	Magnetic switch position has been adjusted	Online	0.5 hours	94224	Closed (17 Maret 2018)	
007/FAILURE/MET	Gas Chromatograph B	33-AT-1352B	1 Agustus 2007	09 Maret 2018	gas Composition not valid	degraded failure	Lifetime	GC B ILine Mixing	battery need to be replaced	1 set colum n diaphragma kit need to be replaced	Offline	6 hours	94116	Closed (09 maret 2018)	
008/FAILURE/MET	Battery UPS rack.B	Rack B	1 Agustus 2007	21 Maret 2018	breaker rack.B Switch OFF	degraded failure	7ea baterry damage	Battery rack B metering	battery need to be replaced	UPS only use one bank (Rack A)	Offline		8692848	Open	
009/FAILURE/MET	H2O Analyzer A	33-AT-1350A	1 Agustus 2007	14 April 2018	H2O analyzer A offline	degraded failure	Short circuit	H2O Analyzer A	Fuse need to be replaced	Fuse has been replaced & cleaning psu	Offline	2 hours	165024	Closed (14 April 2018)	
010/FAILURE/MET	H2O Analyzer A	33-AT-1350A	1 Agustus 2007	27 April 2018	H2O analyzer A stuck	degraded failure	Power cell interface PCB broken	H2O Analyzer A	Part need to be replaced	Power cell interface has been replaced	Online	1 hours	165336	Closed (27 April 2018)	
011/FAILURE/MET	DEG Metering	33-DEG-5020	1 Agustus 2007	11 Mei 2018	Fail to crank	degraded failure	Battery DEG lack of power	DEG Metering	Battery need to be recharge	Recharging battery and refill accu zuur	Stand by	24 hours	94224	Closed (12 Mei 2018)	
012/FAILURE/MET	DEG Metering	33-DEG-5020	1 Agustus 2007	26 Juli 2018	Fail to crank	Degraded Failure	Battery DEG lack of power	DEG Metering	battery need to be replaced	Replace battery	Stand by	0.5 hours	96240	Closed (26 July 2018)	
013/FAILURE/MET	Fix Gas Detector	-	1 Agustus 2007	25 Agustus 2016	failed	Degraded Failure	Lifetime	Area Shelter Metering	Fix gas need to be replaced	replace fix gas detector	Offline	0,5 Hours	-	Closed (02 Februari 2017)	
014/FAILURE/MET	Fix Gas Detector	-	1 Agustus 2007	21 September 2016	failed	Degraded Failure	Lifetime	Area Between receiver phase I and launcher phase I	Fix gas need to be replaced	replace fix gas detector	Offline	0,5 Hours	-	Closed (23 Agustus 2017)	
015/FAILURE/MET	Fix Gas Detector	-	1 Agustus 2007	01 Desember 2016	failed	Degraded Failure	Lifetime	Area Slug Catcher	Fix gas need to be replaced	replace fix gas detector	Offline	0,5 Hours	-	Closed (23 Agustus 2017)	BV can't operate well
016/FAILURE/MET	Fix Gas Detector	-	1 Agustus 2007	01 Desember 2016	failed	Degraded Failure	Lifetime	Area Between receiver phase I and launcher phase I	Fix gas need to be replaced	replace fix gas detector	Offline	0,5 Hours	-	Closed (23 Agustus 2017)	
017/FAILURE/MET	Fix Gas Detector	-	1 Agustus 2007	01 Maret 2017	failed	Degraded Failure	Lifetime	Area Between receiver phase I and launcher phase I and area Slug Catcher	Fix gas need to be replaced	replace fix gas detector	Offline	0,5 Hours	-	Closed (23 Agustus 2017)	
018/FAILURE/MET	Fix Gas Detector	-	1 Agustus 2007	01 Juni 2017	failed	Degraded Failure	Lifetime	Area Slug Catcher	Fix gas need to be replaced	replace fix gas detector	Offline	0,5 Hours	-	Closed (23 Agustus 2017)	
019/FAILURE/MET	Gas Chromatograph B	33-AT-1352B	1 Agustus 2007	27 Maret 2013	failed	invalid analysys	Lifetime	GC B Line Mixing	membran six port valve need replace	replace and cleaning membran six port valve	Offline	6 hours		closed (23 maret 2013)	
020/FAILURE/MET	Gas Chromatograph B	33-AT-1352B	1 Agustus 2007	07 November 2014	failed	invalid analysys	Lifetime	GC B Line Mixing	membran six port valve need replace	replace and cleaning membran six port valve	Offline	6 hours		Closed (07 November 2014)	
021/FAILURE/MET	Gas Chromatograph B	33-AT-1352B	1 Agustus 2007	02 Mei 2015	failed	error Analysys	Lifetime	GC B Line Mixing	Decoder Assembly need to be replace	replace decoder Assembly	Offline	6 hours		closed (02 Mei 2015)	
022/FAILURE/MET	Gas Chromatograph B	33-AT-1352B	1 Agustus 2007	09 Agustus 2016	gas Composition not valid	Degraded Failure	Lifetime	GC B Line Mixing	six port, membrane filter	replace and cleaning membrane six port valve. six port valve, detector dan	Offline	6 hours		closed (06 Agustus 2016)	
023/FAILURE/MET	Gas Chromatograph B	33-AT-1352B	1 Agustus 2007	01 Desember 2016	gas Composition not valid	Degraded Failure	Lifetime	GC B Line Mixing	six port, membrane filter, thermocouple	cleaning n calibration six port, membran filter and thermocouple	Offline	6 hours		Closed (01 Desember 2016)	
024/FAILURE/MET	Gas Chromatograph B	33-AT-1352B	1 Agustus 2007	26 Agustus 2017	gas Composition not valid	Degraded Failure	Lifetime	GC B Line Mixing	six port, membrane filter	leak test, calibration	Offline	6 hours		Closed (26 Agustus 2017)	

Record No**	Asset Name	Tag No**	Commissioning Date***	Failure Date**	Failure Mode**	Failure impact on equipment function *(a) **	Failure Cause	Subunit failed	Component/ Maintainable item(s) failed	Maintenance Section	Operating condition at failure *(b)	Repair Time (Hours)	Running Hours at Failure (Hours)****	Status	Remarks
025/FAILURE/MET	USM A	33-FT-1350A	1 Agustus 2007	21 Februari 2015	Abnormal Instrument Reading	failed	Lifetime	USM Line Copi	USM need to reset	reseted USM and Flow COm	Idle	1 Hours		Closed (21 Februari 2015)	
026/FAILURE/MET	USM A	33-FT-1350A	1 Agustus 2007	5 Maret 2016	Abnormal Instrument Reading	failed	Lifetime	USM Line Copi	Transducer upnormal	Cleaning Transducer	Offline	4 Hours		Closed (5 Maret 2016)	
027/FAILURE/MET	USM A	33-FT-1350A	1 Agustus 2007	27 Maret 2016	Stuck Analysis	failed	disconect	USM Line Copi	Arrester	replace Arrester	Idle	3 Hours		closed (27 Maret 2016)	
028/FAILURE/MET	USM A	33-FT-1350A	1 Agustus 2007	5 April 2016	Abnormal Instrument Reading	failed	Lifetime	USM Line Copi	Transducer upnormal	Cleaning Transducer	Offline	4 Hours		closed (5 April 2016)	
029/FAILURE/MET	USM A	33-FT-1350A	1 Agustus 2007	1 mei 2016	Abnormal Instrument Reading	failed	Lifetime	USM Line Copi	Transducer upnormal	Cleaning Transducer	Offline	4 Hours		Closed (1 mei 2016)	
030/FAILURE/MET	Gas Chromatograph A	33-AT-1352A	1 Agustus 2007	29 Maret 2013	Abnormal Instrument Reading	error Analysys	Lifetime	GC Line Pertamina	Six port Valve	Cleaning Six Port Valve and calibrating	Offline	5 Hours		closed (29 Maret 2013)	
031/FAILURE/MET	Gas Chromatograph A	33-AT-1352A	1 Agustus 2007	20 Januari 2014	gas Composition not valid	invalid analysys	Lifetime	GC Line Pertamina	Six port Valve	membran six port	Offline	4 Hours		closed (20 Januari 2014)	
032/FAILURE/MET	Gas Chromatograph A	33-AT-1352A	1 Agustus 2007	23 februari 2015	OFF line	failed	Lifetime	GC Line Pertamina	Power Supply unit	replace Power Supply Unit	Offline	2 Hours		closed (27 April 2015)	
033/FAILURE/MET	Gas Chromatograph A	33-AT-1352A	1 Agustus 2007	24 Januari 2016	Abnormal Instrument Reading	error Analysys	Lifetime	GC Line Pertamina	coloum, membran, Thermistor	replace coloum, membran, Thermistor	Offline	4 Hours		closed (24 Januari 2016)	
034/FAILURE/MET	Gas Chromatograph A	33-AT-1352A	1 Agustus 2007	23 Juni 2016	Abnormal Instrument Reading	error Analysys	Lifetime	GC Line Pertamina	six port valve, membran, decoder assembly	replace six port valve, membran, decoder assembly	Offline	4 Hours		closed (23 Juni 2016)	
035/FAILURE/MET	Gas Chromatograph A	33-AT-1352A	1 Agustus 2007	06 Januari 2017	gas Composition not valid	invalid analysys	Lifetime	GC Line Pertamina	membran six port	replace membran six port, configuration axelerate	Offline	4 Hours		Closed (06 Januari 2017)	GTCP B Shutdown
036/FAILURE/MET	Gas Chromatograph A	33-AT-1352A	1 Agustus 2007	13 Juli 2017	gas Composition not valid	invalid analysys	Lifetime	GC Line Pertamina	TCD, Membran	Replace TCD, Membran, cleaning six port valve	Offline	8 Hours		closed (20 Juli 2017)	
037/FAILURE/MET	Gas Chromatograph A	33-AT-1352A	1 Agustus 2007	21 Agustus 2017	gas Composition not valid	invalid analysys	Lifetime	GC Line Pertamina	Selenoid Valve	replace Selenoid Valve	Offline	4 Hours		Closed 21 Agustus 2017)	
038/FAILURE/MET	Gas Chromatograph A	33-AT-1352A	1 Agustus 2007	5 Januari 2018	gas Composition not valid	invalid analysys	Lifetime	GC Line Pertamina	Coloum,membran six port	replace Coloum,membran six port	Offline	4 Hours		closed (5 Januari 2018)	
039/FAILURE/MET	UPS B	33-UPS-5050B	1 Agustus 2007	15 Desember 2016	failed	failed	Lifetime	UPS B	Control card	Replace control card	Offline	8 hours		closed (15 desember 2016)OK	
040/FAILURE/MET	HCV	33-HCV-1033	1 Agustus 2007	26 Februari 2018	error blinking	error indikator	Lifetime	receiver phase II	terminal rotery switch	replace terminal rotery switch	online	1 hours		closed (5 Januari 2018)	
041/FAILURE/MET	H2S Analyzer B	33-AT-1351 B	1 Agustus 2007	27 maret 2014	invalid	stuck analisys	Lifetime	line mixing	DC steper motor	Rplace DC steper motor	Offline	2 hours		closed (09 April 2014)	
042/FAILURE/MET	H2S Analyzer A&B	33-AT-1351 A& B	1 Agustus 2007	14 april 2014	invalid	invalid	Lifetime	Line Pertamina and mixing	selenoid state relay mainboard	replace selenoid state relay mainboard	Offline	2 hours		closed (14 april 2014)	
043/FAILURE/MET	H2S Analyzer A&B	33-AT-1351 A& B	1 Agustus 2007	28 Agustus 2014	invalid	invalid	Lifetime	Line Pertamina and mixing	nafion humidifier	replace nafion humidifier	Offline	1 hours		closed (04 september 2014)	
044/FAILURE/MET	H2S Analyzer A&B	33-AT-1351 A& B	1 Agustus 2007	14 Desember 2016	invalid	invalid	Lifetime	Line Pertamina and mixing	rear window and micron filter	replace rear window and micron filter	Offline	2 hours		closed (14 Desember 2016)	
045/FAILURE/MET	Presure Indicator	33-PI-1030	1 Agustus 2007	6-Sep-14	invalid	invalid	Lifetime	receiver phase II	need to be replaced	REplace Presure gauge	Offline	1 hours		closed (06 september 2014)	
046/FAILURE/MET	Presure Indicator	33-PI-1015	1 Agustus 2007	6-Sep-14	invalid	invalid	Lifetime	receiver phase II	need to be replaced	REplace Presure gauge	Offline	1 hours		closed (06 september 2014)	
047/FAILURE/MET	Temperature indicator	33-TI-1350A	1 Agustus 2007	03 Juni 2017	failed	failed	Lifetime	metering Phase II	need to be replaced	Replace TI	Offline	1 hours		closed (03 Juni 2017)	
048/FAILURE/MET	Level Transmiter	33-LT-2110	1 Agustus 2007	10 Juni 2013	Abnormal Instrument Reading	error	Lifetime	slug catcher	need calibrating	cleaning and calibration	Offline	1 hours		closed (10 juni 2013)	
049/FAILURE/MET	Level Transmiter	33-LT-2120	1 Agustus 2007	20 November 2013	Abnormal Instrument Reading	failed	Lifetime	sumptank	need calibrating	reseting and calibrating	online	1 hours		closed (20 november 2013)OK	
050/FAILURE/MET	Temperatur Transmiter	33-TT-1350 A	1 Agustus 2007	15 Januari 2016	error	error	Lifetime	mixing	RTD PT 100	replace RTD PT 100	Offline	1 hours	350784	closed (15 Januari 2016)	
051/FAILURE/MET	Gas Chromatograph A	33-AT-1352A	1 Agustus 2007	22 Agustus 2018	error	error	Lifetime	GC Line Pertamina	gas carrier, software component parameter	drain, calibrating, and seting Mon2000	Idle	8 hours	33576	closed (22 Agustus 2018 2022)	
052/FAILURE/MET	H2O Analyzer A	33-AT-1350A	1 Agustus 2007	24 Agustus 2018	invalid analisys	invalid analisys	Lifetime	H2O Analyzer line pertamina	dryer, maisture	replace dryer	Online	1 hours	170640	Closed (24 Agustus 2018)	
053/FAILURE/MET	Fix Gas Detector	-	1 Agustus 2007	13 Juli 2018	failed	Degraded Failure	Lifetime	Fix gas detector area analyzer A & sump tank	Fix gas detector type MSA Ultima XI	Replace fix gas detector	Online	1 hours	86952	Open	
054/FAILURE/MET	USM A	33-FT-1350A	1 Agustus 2007	30 Agustus 2018	failed	Incipient Failure	Lifetime	LCD Display	Display board / unit	Replace display board	Online	1 hours	86280	Open	
055/FAILURE/MET	Pressure Gauge	33-PI-1020A dan 33-PI-1020B	1 Agustus 2017	10 September 2018	not valid	error Analysys	Lifetime	receiver fase II	need to be replaced	replace pressure gauge	standby	1 hours	1833996	closed (10 september 2018)	
056/FAILURE/MET	Pressure Transmitter	33-PT-1332	1 Agustus 2017	4 September 2018	not valid	error Analysys	Lifetime	Area Launcher Phase 2	need to be replaced	replace pressure transmitter	standby	1 hours	437711	closed (4 september 2018)	1833996
057/FAILURE/MET	Temperature Gauge	33-TI-1350A	1 Agustus 2017	16 September 2018	fail	Degraded Failure	Leak on thermowell connection	Area Metering Shelter	need to be fixed	Retighten connection	online	1 hours	525672	closed (16 september 2018)	
057/FAILURE/MET	Presure Gauge	33-PI-2130	1 Agustus 2007	6 Oktober 2018	failed	Degraded Failure	Lifetime	slug catcher	need to be replaced	Replace PG	Idle	1 hours		Closed 6 Oktober 2018	
058/FAILURE/MET	Lead Acetate tape	33-AT-1351B	1 Agustus 2007	18 Oktober 2018	not valid	error Analysys	Lifetime	H2S B	need to be replaced	Replace Lead Acetate	Idle	1 hours		close 18 Oktober 2018	
059/FAILURE/MET	Fix Gas Detector	-	3 Desember 2018	16 Desember 2018	Fake alarm	Degraded Failure	New spare part issue	Fix Gas Detector area SumpTank	need to be replaced with the new one without issue	Claim to vendor	Idle			Open (Proses CLaim to Vendor)	
060/FAILURE/MET	Horn Process Area	-	1 Agustus 2007	9 Januari 2019	Open circuit alarm	Degraded Failure	Broken resistor	HOrn Process area Electrical room	resistor need to be replaced with the new one	Replace resistor	Idle	1 hours		Close (9 Januari 2019)	
061/FAILURE/MET	Ball valve	33-BV-1035	1 Agustus 2007	30 desember 2018	Gear box failed	Degraded Failure	Gear teeth broken	10" Ball Valve line bypass Phase 2	Gear Teeth need repair	Repair Gear Teeth	standby	4 Hours		Close (19 Januari 2019)	
001/FAILURE/COMP	GTCP B	20-GT-1011B	8 Juli 2008	6 Juni 2018	Spurious Stop	Critical Failure	Main Fuel Valve EGF388 Fail	Main Fuel Valve EGF388	Swap main fuel valve EGF388 to GT C	Swap Unit	Online	72 hours	-	Closed (9 Juni 2018)	

Record No**	Asset Name	Tag No**	Commissioning Date***	Failure Date**	Failure Mode**	Failure impact on equipment function *(a) **	Failure Cause	Subunit failed	Component/ Maintainable item(s) failed	Maintenance Section	Operating condition at failure *(b)	Repair Time (Hours)	Running Hours at Failure (Hours)****	Status	Remarks
003/FAILURE/COMP	GTCP B	20-GT-1011B	8 Juli 2008	23 Juni 2018	Fail to start on demand	Critical Failure	Actuator Fuel Valve V2P932 Leak	Fuel Valve V2P932	Swap actuator fuel valve V2P932 to GT C	Swap Unit	Online	72 hours	-	Closed (26 Juni 2018)	
004/FAILURE/COMP	Air Compressor A	20-E-2310A	8 Juli 2008	23 Juni 2018	Lube Oil Cooler Leak	Degraded failure	Leak at welding joint	Lube Oil Cooler	Oil Cooler	Replace	Online	4 Hours	-	Closed (24 Juni 2018)	
005/FAILURE/COMP	Pressure Switch S-363	20-PSLL-1030B	4 Juli 2008	23 Februari 2018	Low-low suction gas pressure alarm & Turbine Cooldown	Critical Failure	Contact limit switch broken	GTCP B	Pressure switch need to be replaced	Pressure switch replacement	online	2 hours	14138	Closed (24 April 2018)	
006/FAILURE/COMP	V Loading Discharge GTCI	20-SDV-1317B	4 Juli 2008	22 Mei 2018	GTCP Shutdown, Shutdown Station	Critical Failure	Short circuit (wet)	SDV Loading train	Cleaning & Drying	Housekeeping	Online	1 Hours	-	Closed (22 Mei 2018)	
007/FAILURE/COMP	SDV Discharge GTCP A	20-SDV-1316A	4 Juli 2008	22 Mei 2018	GTCP Shutdown, Shutdown Station	Critical Failure	Short circuit (wet)	SDV Loading train	Cleaning & Drying	Housekeeping	Online	1 Hours	-	Closed (22 Mei 2018)	
008/FAILURE/COMP	SDV Loading Discharge GTCP B	20-SDV-1317B	4 Juli 2008	22 Mei 2018	GTCP Shutdown, Shutdown Station	Critical Failure	Short circuit (wet)	SDV Loading train	Cleaning & Drying	Housekeeping	Online	1 Hours	-	Closed (22 Mei 2018)	
009/FAILURE/COMP	GEG A	20-GE-5010A	4 Juli 2008	20 Mei 2018	Low temperature cylinder 13	Critical Failure	Valve gathering	Cylinder Head 13	1 set cylinder head	Replacement	Online	24 Hours		Closed (24 Mei 2018)	
010/FAILURE/COMP	Load Bank A	-	4 Juli 2008	30 Mei 2018	Cable Burned	Critical Failure	Cable life time & condition	Load Bank	Cable	Replace Cable	Online	4 hours	-	Closed (31 Mei 2018)	
011/FAILURE/COMP	GTCP B	20-GT-1011B	4 Juli 2008	23 Juni 2018	GTCP Fail to start	Critical Failure	Actuator Fuel Valve V2P932 Leak	Fuel Valve V2P932	Swap actuator fuel valve V2P932 to GT C	Swap Unit	Online	72 hours	-	Closed (26 June 2018)	
012/FAILURE/COMP	GTCP B	20-GT-1011B	4 Juli 2008	6 Juni 2018	GTCP Shutdown	Critical Failure	Main Fuel Valve EGF388 Fail	Main Fuel Valve EGF388	Swap main fuel valve EGF388 to GT C	Swap Unit	Online	72 hours	-	Closed (9 June 2018)	
013/FAILURE/COMP	Blowdown Valve	20-BDV-1401	8 Juli 2008	6 Juli 2018	Air Valve Leak	Incipient Failure	Lifetime	Air Valve	Air Valve	Replace	Online	1 hours	-	Closed (6 July 2018)	
014/FAILURE/COMP	UV/IR Flame Detector	20-UVIR-P501	4 Juli 2008	4/29/2018	UV/IR not function	Degraded failure	Sensor Broken	UV/IR for DEG	UV/IR need to be replaced	Replace UV/IR Flame Detector	Online	1 Hours	-	Closed (29 April 2018)	16
015/FAILURE/COMP	Regulator Fuel Turbine	20PCV2001 A	4 Juli 2008	03 Agustus 2018	Regulator Fuel Turbine A not function	Critical Failure	Diapraghm pilot regulator broken, filter dirty	Regulator Fuel Turbine A	Diaphragm Filter	Replace Spare Part	Offline	0,5 Hours	-	Closed (05 Agustus 2018)	
016/FAILURE/COMP	Station Fire Alarm Panel	SFAP	4 Juli 2008	08 Maret 2018	Alarm Open Circuit 20-FP-P103 & Drift Ion 20-IS-P103	Degraded failure	- Analog input 20-FS-P103 Broken - Smoke Detector 20-IS-P103 Broken	#NAME?	- Analog input 20-FS-P103 - Smoke Detector 20-IS-P103	Replace Spare Part	Online	1 Hours	-	Closed (09 Maret 2018)	
017/FAILURE/COMP	Building Fire Alarm Panel	BFAP 5010	4 Juli 2008	08 Maret 2018	Alarm Ground Fault -Vdc pada BFAP-5010	Degraded failure	NIC BFAP-5030 Broken	BFAP-5030	Network Interface Card	Replace Spare Part	Online	1 Hours	-	Closed (17 Maret 2018)	
018/Failure/Comp	DCS B	20-DCS-B	4 Juli 2008	20-Jan-09	Error display	Incipient Failure	Software error	PC Operator 2	Software	Re-install software	Online	3 hours	-	Closed	
019/Failure Comp	DCS B	20-DCS-B	4 Juli 2008	1-Mar-09	No back up Controller	Degraded Failure	Controller Error	Secondary controller CSCS	Controller C300	Replace Honeywell C300 & Sychronization	Online	4 hours	-	Closed	
020/Failure/Comp	Utility Air Receiver	20-V-2320	4 Juli 2008	14-Sep-09	Air passing at liquid trap	Degraded Failure	Corrosion at liquid trap	Liquid trap	Liquid trap	Rust cleaning	online	1 hour	-	Closed (14 September 2009)	
021/Failure/Comp	Gas Detector 1001	20-GD-1001	4 Juli 2008	2-Dec-12	Gas detector not function	Critical Failure	Emitter broken	Emitter	Emitter	Replace emitter	running	1 hour	-	Closed	
022/Failure/Comp	Utility Air Receiver	20-V-2320	4 Juli 2008	3-Dec-12	Abnormal water level	Degraded Failure	Leak at liquid trap	Liquid trap	Liquid trap	Cleaning inside	online	1 hour	-	Closed (03 Desember 2012)	
023/Failure/Comp	Gas Detector 1005	20-GD-1005	4 Juli 2008	25-Apr-13	Gas detector not function	Critical Failure	Emitter broken	Emitter	Emitter	Replace emitter	running	1 hour	-	Closed	
024/Failure/Comp	Gas Detector 1002	20-GD-1002	4 Juli 2008	12-Jul-13	Gas detector not readable	Critical Failure	Display error	Display unit	Display Unit	Repair display unit	running	2 hour	-	Closed	
025/Failure/Comp	SDV Suction Manifold	20-SDV-1001	4 Juli 2008	11-Sep-14	Station shutdown	Critical Failure	Suction valvve position fail	SDV 1001	Valve positioner, Magnetic pick up	Troubleshoot	online	1 hour	-	closed	
026/Failure/Comp	Air Compressor B	20-C-2310B	4 Juli 2008	9-Apr-15	Lube oil high temperature	Degraded Failure	Leak atu inlet housing lube oil filter	Lube oil filter housing	Lube oil filter housing	Replace	Running	1 hour	28065	Closed	
027/Failure/Comp	BDV Train B	20-BDV-1421	4 Juli 2008	18-Feb-16	Blowdown valve command disagree	critical Failure	Solenoid valve broken	solenoid valve	solenoid valve	Replace	Running	1 hour	-	closed	
028/Failure/Comp	Air Compressor B	20-C-2310B	4 Juli 2008	28-Jun-16	Abnormal auto drain air compressor B	Incipient Failure	Electronic water drain broken	EWD	EWD	Replace with timed water drain	Running	2 hour	32247	Closed	
029/Failure/Comp	Aftercooler A	20-E-1110A	4 Juli 2008	29-Jul-16	Leakage at air cylinder actuator	Degraded Failure	Lifetime	Seal piston	Air Cylinder Actuator	Replace air cylinder actuator	Running	1	-	Closed	
030/Failure/Comp	Aftercooler B2	20-E-1110B2	4 Juli 2008	16-Aug-16	Noise at motor fan aftercooler B2	Degraded Failure	Lifetime	Fan Motor	V-Belt	Replace V-Belt	Running	1 hour	-	Closed	
031/Failure/Comp	Utility Air Receiver	20-V-2320	4 Juli 2008	26-Aug-16	Abnormal water level	Degraded Failure	Liquid trap stuck	Liquid trap	Liquid trap	Cleaning inside	online	1 hour	-	Closed (26 Agustus 2016)	
032/Failure/Comp	Air Compressor B	20-C-2310B	4 Juli 2008	4-Nov-16	Oil leakage at cooler air compressor B	Degraded Failure	Oil cooler damage	Oil cooler	Oil Cooler	Replace oil cooler	Running	2 hours	32808	Closed	
033/Failure/Comp	Gas Engine B	20-GE-5010B	4 Juli 2008	5-Mar-17	GEG B fail to start	Critical Failure	Pressure gauge error	Pressure gauge	pressure gauge	Repair pressure gauge	Stand by	2 hour	42495	Closed	
034/Failure/Comp	Air Compressor B	20-C-2310B	4 Juli 2008	9-Apr-17	Oil leakage at cooler air compressor B	Degraded Failure	Oil cooler damage	Oil cooler	Oil Cooler	Replace oil cooler	Running	2 hours	32808	Closed	
035/Failure/Comp	Air Compressor B	20-C-2310B	4 Juli 2008	22-Apr-17	Abnormal auto drain air compressor B	Degraded Failure	Solenoid broken	Solenoid valve	Solenoid valve	Replace solenoid	Running	1 hour	34910	Closed	
036/Failure/Comp	Gas Engine B	20-GE-5010B	4 Juli 2008	10-Jun-17	GEG B Trip	Critical Failure	CDVR Broken	CDVR	CDVR	Replace CDVR	Running	1 hour	43444	Closed	
037/Failure/Comp	BDV Train C	20-BDV-1431	4 Juli 2008	24-Jun-17	Blowdown valve command disagree	critical Failure	Solenoid valve broken	solenoid valve	solenoid valve	Replace	Running	1 hour	-	closed	
038/Failure/Comp	Gas Engine B	20-GE-5010B	4 Juli 2008	6-Aug-17	Generator low indulation	Degraded Failure	Space heater not function	Space heater	Cable relay & MCB	Replace & retighten	Stand by	2 hour	44189	Closed	
039/Failure/Comp	Gas Detector 1001	20-GD-1001	4 Juli 2008	8-Aug-17	Gas detector not function	Critical Failure	Emitter broken	Emitter	Emitter	Replace emitter	running	1 hour	-	Closed	
040/Failure/Comp	Anti Surge Valve A	20-FCV-1318A	4 Juli 2008	10-Aug-17	ASV Position Fail	Critical Failure	Wear damage at diaphragm regulator exhaust booster	Anti Surge Valve	Diaphragm Regulator Exhaust Booster		Idle	1 hour	569	Closed	
041/Failure/Comp	Air Compressor B	20-C-2310B	4 Juli 2008	19-Aug-17	Air Compressor Package failure to start	Critical Failure	Leakage at heat exchanger	Heat Exchanger	Heat Exchanger		Idle	137	35681	Close	
042/Failure/Comp	Gas Engine B	20-GE-5010B	4 Juli 2008	21-Aug-17	Oil leakage	incipient Failure	Loose bolt	Cylinder head	Cylinder head	Retighten	Running	0,5 hours	44391	Closed	
043/Failure/Comp	Gas Detector 1006	20-GD-1006	4 Juli 2008	31-Aug-17	Gas detector not function	Critical Failure	Gas detector broken	Gas detector unit	Gas detector unit	Replace gas detector unit	Running	2 hour	-	Closed	
044/Failure/Comp	Gas Detector 1004	20-GD-1004	4 Juli 2008	3-Sep-17	Gas detector not function	Critical Failure	Emitter broken	Emitter	Emitter	Replace emitter	running	1 hour	-	Closed	
045/Failure/Comp	Gas Detector 1004	20-GD-1004	4 Juli 2008	19-Sep-17	Gas detector not function	Critical Failure	Emitter broken	Emitter	Emitter	Replace emitter	running	1 hour	-	Closed	
046/Failure/Comp	Air Compressor B	20-C-2310B	4 Juli 2008	7-Oct-17	Lube Oil Leakage at Air Compressor B	Incipient Failure	Lifetime	Lube Oil system	Flexible Hose		Running	1	36060	Close	
047/Failure/Comp	Air Compressor B	20-C-2310B	4 Juli 2008	7-Oct-17	Low level Lube Oil at Air Compressor B	Critical Failure	Lifetime	Heat Exchanger	Radiator		Running	1	36060	Close	
048/Failure/Comp	Aftercooler B1	20-E-1110B	4 Juli 2008	9-Oct-17	Air Supply Leakage at Aftercooler B	Incipient Failure	lifetime	Damper Aftercooler	Mushroom push button	Replace push button	Running	1	11738	Close	
049/Failure/Comp	Gas Engine A	20-GE-5010A	4 Juli 2008	25-Oct-17	GEG A AVR Failure & Shutdown	Critical Failure	Lifetime	Generator	Potential Transformer	Replace AVR	Idle	1	38908	Close	
050/Failure/Comp	Gas Turbine B	20-GT-1210B	4 Juli 2008	29-Oct-17	Lube oil leakage at Gas Turbine B and cannot regulate oil pressure	Incipient Failure	Lifetime	Lube Oil System	Oil Regulator	Repair oil regulator	Running & Idle	0.5	11738	Close	

Record No**	Asset Name	Tag No**	Commissioning Date***	Failure Date**	Failure Mode**	Failure impact on equipment function *(a) **	Failure Cause	Subunit failed	Component/ Maintainable item(s) failed	Maintenance Section	Operating condition at failure *(b)	Repair Time (Hours)	Running Hours at Failure (Hours)****	Status	Remarks
051/Failure/Comp	Gas Turbine B	20-GT-1210B	4 Juli 2008	30-Oct-17	Exhaust gas leakage at Gas Turbine B	Incipient Failure	Lifetime	Exhaust Collector	Membrane Valve	Repair exhaust bellows	Running	1	11738	Close	
052/Failure/Comp	Air Dryer A	20-M-2330A	4 Juli 2008	1-Dec-17	Unreadable dryer tank pressure	Degraded Failure	Pressure sensor fail	Pressure sensor	Sensor Membrane	Cleaning Membrane	Running	1 hour	45217	Closed	
053/Failure/Comp	Pressure Switch S-363	20-PSLL-1030B	4 Juli 2008	23-Feb-18	Low-low suction gas pressure alarm & Turbine Cooldown	Critical Failure	Contact limit switch broken	GTCP B	Pressure switch need to be replaced	Pressure switch replacement	online	2 hours	14138	Closed (24 April 2018)	
054/Failure/Comp	Gas Engine A	20-GE-5010A	4 Juli 2008	24-Feb-18	Leakage at Jacket Water Pump	Critical Failure	Seal broken, impeller damage	GEG Unit A	Jacket Water Pump need to be repaired at Trakindo Workshop	Water pump repaired at Trakindo Workshop Palembang	online	48 hours	40004	Closed (12 Maret 2018)	
055/Failure/Comp	Building Fire Alarm Panel	BFAP 5010	4 Juli 2008	8-Mar-18	Alarm Ground Fault -Vdc pada BFAP-5010	Degraded failure	NIC BFAP-5030 Broken	BFAP-5030	Network Interface Card	Replace Spare Part	Online	1 Hours	-	Closed (17 Maret 2018)	
056/Failure/Comp	Station Fire Alarm Panel	SFAP	4 Juli 2008	8-Mar-18	Alarm Open Circuit 20-FP-P103 & Drift Ion 20-IS-P103	Degraded failure	- Analog Input 20-FS-P103 Broken - Smoke Detector 20-IS-P103 Broken	#NAME?	- Analog Input 20-FS-P103 - Smoke Detector 20-IS-P103	Replace Spare Part	Online	1 Hours	-	Closed (09 Maret 2018)	
057/Failure/Comp	GTCP C	20GT1210	4 Juli 2008	7-Sep-18	Terjadi kebocoran oli	Critical Failure	Lifetime	Temperature Control Valve Turbine C	O-ring	Replace O-ring	Offline	1 hours	626	Closed (07 September 2018)	
058/Failure/Comp	Gas Detector	20GD1002	4 Juli 2008	28-Sep-18	Gas detector unavailable	Critical Failure	Lifetime	Compressor Building Train C	Need to be replace	replace emitter	Offline	0,5 hours	-	Closed (28 September 2018)	
059/Failure/Comp	Gas Turbine B	20-GT-1011B	4 Juli 2008	7-Nov-18	Speed sensor failure	Critical Failure	Lifetime	Compressor Building Train B	Need to be replace	Replace Speed Sensor	Offline	48 hours	15834	Closed (10 November 2018)	
053/Failure/Comp	Air Dryer A		4 Juli 2008	5-Jan-19	Leakage at pre filter	Incipient Failure	auto drain valve broken	Air Dryer B	Auto drain valve	Replace	Online	1 hour		Closed	
054/Failure/Comp	UPS 1		4 Juli 2008	6-Jan-19	Fan Failure	Incipient Failure	Cooling Fan broken	UPS 1	Cooling fan	Replace	Online	1 hour		Closed	
055/Failure/Comp	GEG A	20-GE-5010-A	4 Juli 2008	4-Jan-19	Leakage	Incipient Failure	O-Ring broken	GEG A	O-ring	Replace	online			Open	
056/Failure/Comp	Utility Water Pump		4 Juli 2008	16-Jan-19	Noise	Degraded Failure	Bearing broken	Utility Water Pump B	Bearing	Replace	Online	1 Hour		Closed	
057/Failure/Comp	Gas Turbine B	20-GT-1011B	4 Juli 2008	25-Jan-19	Fan belt noise	Incipient Failure	Loosen Belt	Lube oil cooler fan B1	Fan Belt	Retighten	Offline	0,5 Hour		Closed	
058/Failure/Comp	Gas Compressor B	20-C-1011B	4 Juli 2008	23-Jan-19	DP Strainer high	Incipient Failure	Blocked strainer	Gas Compressor B	Suction strainer	Remove	Online	18 hour		Closed	
059/Failure/Comp	Level Switch	20-LSHH-	4 Juli 2008	27-Jan-19	Level switch stuck	Incipient Failure	Carbon deposit at level swicth	Level Switch High High	Level Switch High High	Cleaning	Online	2 hours		Closed	
001/FAILURE/SECT2	Test Box Cathodic Protection	TS-3 (KP 03+990 PGD-GRS)	18 Oktober 2007	01 Juni 2017	Test point damage	Incipient Failure	Damaged by thieves	Test point	Test box need to be replaced	Install new test box	Idle	8 hours	84312	Closed (19 December 2017)	
002/FAILURE/SECT2	Test Box Cathodic Protection	TS-15 (KP 33+900 PGD-GRS)	18 Oktober 2007	01 Juni 2017	Test point damage	Incipient Failure	Damaged by thieves	Test point	Test box need to be replaced	Install new test box	Idle	8 hours	84312	Closed (20 December 2017)	
003/FAILURE/SECT2	Test Box Cathodic Protection	CMTS-5 (KP 49+930 PGD-GRS)	18 Oktober 2007	01 Juni 2017	Test point damage	Incipient Failure	Damaged by thieves	Test point	Test box need to be replaced	Install new test box	Idle	8 hours	84312	Closed (18 December 2017)	
004/FAILURE/SECT2	Test Box Cathodic Protection	TS-23 (KP 52+000 PGD-GRS)	18 Oktober 2007	01 Juni 2017	Test point damage	Incipient Failure	Damaged by thieves	Test point	Test box need to be replaced	Install new test box	Idle	8 hours	84312	Closed (18 December 2017)	
008/FAILURE/SECT2	Test Box Cathodic Protection	TS-17 (KP 38+050 PGD-GRS)	26 Februari 2018	05 Mei 2018	Test point damage	Incipient Failure	Damaged by thieves	Test point	Test box need to be replaced	install new test box	Idle	4 hours	1656	Open	
001/FAILURE/SECT3	Tranformator Rectifier Phase 1	-	1 Agustus 2007	13 Juni 2011	Unable to setting	Critical Failure	Control card broken	Control card	Control card	Install new control card	Off	15 hours	86520	Closed (17 November 2017)	
003/FAILURE/SECT3	Tranformator Rectifier Phase 1	-	1 Agustus 2007	14 Februari 2018	Potensial value drop	Critical Failure	Control card broken	Control card	Control card	Install new control card	On	0.5 hours	94224	Closed (25 April 2018)	
006/FAILURE/SECT2	Test Box Cathodic Protection	TS-17 (KP 38+050 PGD-GRS)	18 Oktober 2007	22 Januari 2018	Test point damage	Incipient Failure	Damaged by thieves	Test point	Test box need to be replaced	install new test box	Idle	4 hours	89856	Closed (26 February 2018)	
005/FAILURE/SECT2	Test Box Cathodic Protection	TS-30 (KP 68+050 PGD-GRS)	18 Oktober 2007	25 Desember 2017	Test point damage	Incipient Failure	Damaged by thieves	Test point	Test box need to be replaced	Install new test box	Idle	4 hours	89208	Closed (19 February 2018)	
009/FAILURE/SECT2	Test Box Cathodic Protection	CMTS-5 (KP 49+930 PGD-GRS)	18 December 2017	31 Juli 2018	Test point damage	Incipient Failure	Damaged by thieves	Test point	Test box need to be replaced	Install new test box	Idle	4 hours	5400	Open (akan dilakukan perbaikan setelah kondisi keamanan mereda dengan	
010/FAILURE/SECT2	Test Box Cathodic Protection	TS-23 (KP 52+000 PGD-GRS)	18 December 2017	31 Juli 2018	Test point damage	Incipient Failure	Damaged by thieves	Test point	Test box need to be replaced	Install new test box	Idle	4 hours	5400	Open (akan dilakukan perbaikan setelah kondisi keamanan mereda dengan	
002/FAILURE/SECT3	Grounbed Phase 1	-	1 Agustus 2007	4 November 2017	Sistem CP Fail	Critical Failure	JB & Cable broken (Third activity)	JB & Cable	Cable & JB		Stand by		89832	Open	
007/FAILURE/SECT2	Test Box Cathodic Protection	TS-16 (KP 38+050 PGD-GRS)	19 Februari 2018	5 Mei 2018	Test point damage	Incipient Failure	Damaged by thieves	Test point	Test box need to be replaced	install new test box	Idle	4 hours	1824	Open	

No		Notes :	
4		***	First time operation (Running Hours = 0)
7		*a)	Effect on equipment-unit function: critical, degraded, or incipient failure
			Critical Failure : A failure which causes immediate and complete loss of an equipment unit`s capability of providing its output
			Degraded Failure : A failure which is not critical, but it prevents an equipment unit from providing its output within specifications. Such a failure usually, but not necessarily, be gradual or partial, and may develop into a critical failure in time
			Incipient Failure : A failure which doesn`t immediately cause loss of a unit`s capability of providing its output, but which, if not attended to, could result in a critical or degraded failure in the near future
			Unknown : Failure severity was not recorded or could not be deduced
10		*b)	Running, Start-up, Testing, Idle, Standby
		**	Mandatory from ISO 14224 Point 9.5 Tabel 6
14		****	If data unavailable, determine the running hours since commissioning date
			Tambahan Failure dengan status closed

LAMPIRAN 17.2.T.14 FORM FAILURE RECORDING

Record No**	Asset Name	Tag No**	Commissioning Date***	Failure Date**	Failure Mode**	Failure impact on equipment function *(a) **	Failure Cause	Subunit failed	Component/ Maintainable item(s) failed	Maintenance Section	Operating condition at failure *(b)	Repair Time (Hours)	Running Hours at Failure (Hours)****	Status	Remarks
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
001/FAILURE/SECT4	TEST BOX	PTS 45 (KP 100+900) Phase 1	2007	2007	Test point tidak bisa ditemukan	Incipient Failure	Titik lokasi Test point tidak bisa ditemukan dari awal pemeliharaan	Test point	Test point	Pebaikan test point dengan metode cald welding	Idle	24	-	CLOSE (MEI 2018)	
002/FAILURE/SECT4	TEST BOX	PTS 46 (KP 102+750) Phase 1		Awal Pemeliharaan	Test point rusak / tidak bisa terukur	Incipient Failure	Titik lokasi Test point rusak / tidak bisa terukur dari awal pemeliharaan	Test point	Test point	Perbaikan dilakukan dengan penyambungan kabel test point	Idle	56	-	CLOSE (SEPTEMBER 2017)	
003/FAILURE/SECT4	TEST BOX	PTS 51 (KP 102+750) Phase 2		Awal Pemeliharaan	Test point rusak / tidak bisa terukur	Incipient Failure	Titik lokasi Test point rusak / tidak bisa terukur dari awal pemeliharaan	Test point	Test point	Perbaikan dilakukan dengan penyambungan kabel test point	Idle	56	-	CLOSE (SEPTEMBER 2017)	
004/FAILURE/SECT4	TEST BOX	TS 49 (KP 100+900) Phase 2	2007	29 Juni 2018	Test point tidak bisa ditemukan	Incipient Failure	Titik lokasi Test point tidak bisa ditemukan dari awal pemeliharaan	Test point	Test point	Pebaikan test point dengan metode cald welding	Idle	24	-	CLOSE (MEI 2018)	
005/FAILURE/SECT4	PIPA	KP 74+030	2007	6 Januari 2019	Pipe Exposed Phase 1 dan Phase 2	Critical Failure	Erosi pada waterway di Pipa Phase 1 dan 2	Pipa	Pipa	Penutupan Pipa Ekspos dengan cara dibuatkan tanggul dari susunan cement bag dan trucuk.	Running	32		CLOSE (JANUARI 2019)	
006/FAILURE/SECT4	JEMBATAN	KP 72+290	2012	11 Januari 2019	Pondasi amblas dan lantai jembatan patah	Degraded Failure	Erosi pada waterway serta kondisi jembatan mengalami kerusakan (Pndasi amblas dan lantai jembatan patah)	Jembatan	Jembatan		Running			OPEN	
007/FAILURE/SECT4	TURAP	KP 102+150	2017	13 Januari 2019	Kerusakan Tebing Turap	Degraded Failure	Erosi pada tebing samping jalur patroli yang merupakan tanah warga	Turap	Turap		Running			OPEN	
001/FAILURE/SECT5	TEST BOX	PTS 86 (KP 180+480) Phase 1	2007	29 Juni 2018	Test point tidak bisa ditemukan	Incipient Failure	Titik lokasi Test point tidak bisa ditemukan dari awal pemeliharaan	Test point	Test point	Pemasangan/ Pembuatan Test Box baru	Idle	16	-	CLOSE (APRIL 2018)	
002/FAILURE/SECT5	TR	TR Phase 1 LBM	9 Juni 2008 (Commissioning)	11 Februari 2014	TR Phase 1 tidak terukur	Critical Failure	TR phase I rusak karena saat dilakukan setting mengalami pembacaan error (TR Phase 1 dimatikan)	Transformer rectifier	Control Card	Penggantian control card dan setting tegangan potensial TR	Start Up	2	-	CLOSE (NOVEMBER 2017)	
003/FAILURE/SECT5	TR	TR Phase 1 PGD	9 Juni 2008 (Commissioning)	11 Februari 2014	TR Phase 1 tidak terukur	Critical Failure	TR phase I rusak karena saat dilakukan setting mengalami pembacaan error (TR Phase 1 dimatikan)	Transformer rectifier	Control Card	Penggantian control card dan setting tegangan potensial TR	Start Up	2	-	CLOSE (NOVEMBER 2017)	
004/FAILURE/SECT5	PIPA	KP 127+424	2007	19 Agustus 2018	Pipa Exposed Phase 1 dan Phase 2	Critical Failure	KP 127+424 merupakan kawasan banjir setiap tahun. Tim jaringan hanya dapat menjangkau sampai KP 126+900 dan mulai kembali pada KP 127+500.	Pipa	Pipa	Penutupan Pipa exposed menggunakan sandbag dan backfill	Running	21	-	CLOSE (AGUSTUS 2018)	
001/FAILURE/OTS		1821-H-3001C		18 September 2015	Failed to burner on	Incipient Failure	Unstable opening air damper	Air Damper motor	Motor Air Damper	Telah dilakukan penggantian motor air damper	Standby	12		CLOSE (JUNI 2017)	
002/FAILURE/OTS		1821-H-3001A		29 Maret 2016	Failed to burner on	Incipient Failure	Unstable opening air damper	Air Damper motor	Motor Air Damper	Telah dilakukan penggantian motor air damper	Standby	12		CLOSE (JUNI 2017)	
003/FAILURE/OTS		Check Valve Hydrant	14 Agustus 2014 (Commissioning)	30 Januari 2017	Valve Leakage in Closed Position	Incipient Failure	Passing, Spring Aus	Check Valve Hydrant	Check valve	Telah dilakukan penggantian check valve	Idle	2	-	CLOSE (NOVEMBER 2017)	Check Valve Passing
004/FAILURE/OTS		Rotary GEG B	14 Agustus 2014 (Commissioning)	20 Mei 2017	Rotary Fuel Gas GEG Stuck	Degraded Failure	Calibration Needed	Rotary GEG B	Rotary meter	Telah dilakukan perbaikan dan kalibrasi oleh Workshop PGASOL	Idle	56	7409,7	CLOSE (NOVEMBER 2017)	
005/FAILURE/OTS		CCTV		1 Agustus 2017	Joystick Tidak berfungsi	Incipient Failure	Ada kerusakan kabel power antara joystick ke panel	CCTV	Joystick CCTV	Telah dilakukan penarikan ulang kabel komunikasi dari joystick menuju ke CCTV	Running			CLOSE (AGUSTUS 2017)	
006/FAILURE/OTS		Temperature Indicator	14 Agustus 2014 (Commissioning)	5 Agustus 2017	Nilai temperatur exhaust IFWBH B tidak menunjuk	Incipient Failure	Temperatur indicator rusak	Exhaust IFWBH B	Pressure Gauge	Telah dilakukan penggantian pressure gauge	Running	0,25	-	CLOSE (NOVEMBER 2017)	
007/FAILURE/OTS	Panel GEG	00-RCP-01A	14 Agustus 2014	20 September 2017	Tidak bisa running otomatis GEG A	Incipient Failure	CPU Failure (rusak)	CPU	CPU PLC	Telah dilakukan penggantian CPU PLC pada Panel RCP GEG A	Idle	6	14053,4	CLOSE (MEI 2018)	
008/FAILURE/OTS	Ball Valve	1821-BV-1002	14 Agustus 2014	20 Oktober 2017	Fail To Close	Incipient Failure	Worm gear pecah	Worm gear	Worm Gear Gearbox	Te;ah dilakukan penggantian wormgear pada gearbox valve	Running			CLOSE (8 September 2018)	Valve tidak Bisa full close
009/FAILURE/OTS		Rotary GEG C	14 Agustus 2014 (Commissioning)	30 Oktober 2017	Rotary Fuel Gas GEG Stuck	Degraded Failure	Calibration Needed	Rotary GEG C	Rotary meter	Telah dilakukan perbaikan dan kalibrasi oleh Workshop PGASOL	Running	0,5	8541,7	CLOSE (NOVEMBER 2017)	
010/FAILURE/OTS		Air Compressor A	14 Agustus 2014 (Commissioning)	24 November 2017	Air Compressor mengalami Shutdown	Critical Failure	Reset pada SC50103	Air Compressor A	Remote ESD DCS	Telah dilakukan bypass koneksi remote ESD dari DCS ke Air Compressor & Air Dryer	Standby	5	8425	CLOSE (NOVEMBER 2017)	
011/FAILURE/OTS		Air Compressor B	14 Agustus 2014 (Commissioning)	24 November 2017	Air Compressor mengalami Shutdown	Critical Failure	Reset pada SC50103	Air Compressor B	Remote ESD DCS	Telah dilakukan bypass koneksi remote ESD dari DCS ke Air Compressor & Air Dryer	Running	5	19462	CLOSE (NOVEMBER 2017)	
012/FAILURE/OTS		Air Dryer AB	14 Agustus 2014 (Commissioning)	24 November 2017	Air Dryer mengalami shutdown	Critical Failure	Reset pada SC50103	Air Dryer AB	Remote ESD DCS	Telah dilakukan bypass koneksi remote ESD dari DCS ke Air Compressor & Air Dryer	Running	5	-	CLOSE (NOVEMBER 2017)	

Record No**	Asset Name	Tag No**	Commissioning Date***	Failure Date**	Failure Mode**	Failure impact on equipment function *(a) **	Failure Cause	Subunit failed	Component/ Maintainable item(s) failed	Maintenance Section	Operating condition at failure *(b)	Repair Time (Hours)	Running Hours at Failure (Hours)****	Status	Remarks
013/FAILURE/OTS		Air Dryer CD	14 Agustus 2014 (Commissioning)	24 November 2017	Air Dryer mengalami shutdown	Critical Failure	Reset pada SCS0103	Air Dryer CD	Remote ESD DCS	Telah dilakukan bypass koneksi remote ESD dari DCS ke Air Compressor & Air Dryer	Standby	5	-	CLOSE (NOVEMBER 2017)	
014/FAILURE/OTS	UPS B		14 Agustus 2014	29 November 2017	Alarm power supply fault, kerusakan pada PSU AC tag number A-201	Critical Failure	Unknown	UPS B	Power Supply AC Board	Telah dilakukan penggantian PSU AC Board	Running			CLOSE (8 September 2018)	
015/FAILURE/OTS	CCTV	CCTV Mess	22 Oktober 2014	22 Februari 2018	CCTV tidak dapat menampilkan gambar	Incipient Failure	Kerusakan pada DVR	CCTV	DVR CCTV	Telah dilakukan penggantian DVR CCTV	Running	0,5		CLOSE (APRIL 2018)	
016/FAILURE/OTS	GC A	1821-AT-4001A	24 Desember 2014	30 Maret 2018	Gas Chromatograph A tidak dapat running	Critical Failure	Kebocoran pada Solenoid	GC A	Solenoid Valve	Telah dilakukan penggantian Solenoid Valve	Running	4		CLOSE (APRIL 2018)	
017/FAILURE/OTS	GEG A		14 Agustus 2014	10 April 2018	Overheating	Critical Failure	Karet dudukan GEG longgar sehingga menyebabkan vibrasi berlebihan	Stator generator	Stator GEG	Telah dilakukan rewinding pada kumparan stator generator	Running		14109,7	CLOSE (23 Oktober 2018)	Kumparan terbakar
018/FAILURE/OTS	Rotary Meter GEG C		14 Agustus 2018	16 April 2018	Rotary meter tidak bisa counting dengan sempurna (Terkadang Stuck)	Incipient Failure		Rotary Meter	Rotary meter	Telah dilakukan penggantian lubricant rotary meter	Running	4		CLOSE (APRIL 2018)	
019/FAILURE/OTS	Flowcomp		24 Desember 2014	27 April 2018	Webserver tidak dapat diakses dari HMI	Incipient Failure		Flowcomp	Flowcomp	Telah dilakukan reset power pada Flowcomp	Running	0,5		CLOSE (MEI 2018)	
020/FAILURE/OTS	Load Bank		14 Agustus 2014	28 Mei 2018	2 unit Heater element rusak, 2 unit kontaktor yang macet dan 1 unit circuit breaker	Incipient Failure	2 buah kontaktor 50 KW macet dan 1 buah circuit breaker tidak trip sehingga tidak dapat memutus aliran listrik yang menyebabkan short pada heater element dan menimbulkan asap pada load bank	Load Bank	Element heater & contactor	Telah dilakukan penggantian element heater & kontaktor yang rusak	Running			CLOSE (9 September 2018)	
021/ FAILURE/OTS	GEG C		14 Agustus 2014 (Commissioning)	7 Juli 2018	Kabel Motor Starter terbakar	Critical Failure	Socket kabel tidak berpelindung	Motor starter	Connection Socket	Telah dilakukan penggantian kabel yang terbakar	Standby	4		CLOSE (JULI 2018)	
022/FAILURE/OTS	GEG C		14 Agustus 2014 (Commissioning)	9 Juli 2018	Kerusakan kabel busi	Critical Failure	Temuan rembesan oli pada ruang busi & kabel busi kurang kencang	Busi	Kabel busi	Telah dilakukan penggantian pada kabel busi tersebut	Running	4		CLOSE (JULI 2018)	
023/FAILURE/OTS	UPS B		14 Agustus 2014 (Commissioning)	26 AGUSTUS 2018	Fail to function on demand	Degraded Failure	Rectifier Failure, DC out of Tolerance, Battery Discharge, Inverter Fault, EA Inhibited dan Power Supply Fault	UPS	Current Transformer	Telah dilakukan penggantian DC Current Transformer	Running			CLOSE (8 September 2018)	
001/FAILURE/LBM		FA-D-005	Juli 2007 (Commissioning)	10 Februari 2015	Fail to function on demand	Degraded Failure	Faktor usia Flame detector	Flame detector	Flame detector	Replace unit with a new one	Standby	3	-	CLOSE (NOVEMBER 2017)	
002/FAILURE/LBM		37-HCV-1071		28 November 2015	Passing (internal valve leakage)	Incipient Failure	Passing terjadi dikarenakan adanya kotoran pada cavity	Hand Control Valve	Ball valve cavity	Inject lubricant into ball valve	Standby			CLOSE (AGUSTUS 2017)	
003/FAILURE/LBM		37-F/PCV-1322B	Juli 2007 (Commissioning)	Agustus 2016	Delayed Operation	Degraded Failure	Logix positioner failure	Positioner	Logix positioner	Replace unit with a new one	Standby	1	-	CLOSE (DESEMBER 2017)	
004/FAILURE/LBM		FA-C-002		19 Maret 2017	Notifier menampilkan alarm "Drill Activated 3" terus menerus hingga akhirnya terjadi error pada program sistem notifier	Degraded Failure	Kemungkinan error pada program notifier	Notifier panel	fire alarm panel	Reprogramming the alarm panel	Standby			CLOSE (AGUSTUS 2017)	
005/FAILURE/LBM		37-GEG-5010		01 Juni 2017	Abnormal Instrument Reading	Incipient Failure	Socket not connected properly	RPM Display	Connection Socket	Retighten and reconnect the socket connection	Running	0.1		CLOSE (JUNI 2017)	
006/FAILURE/LBM		37-BV-1062		20 Agustus 2017	Internal Leakage/passing	Incipient Failure	Kemungkinan kotor pada Ball Valve	Ball Valve	Ball valve cavity	Inject lubricant into ball valve	Standby			CLOSE (AGUSTUS 2017)	
007/FAILURE/LBM		71-PLV-2102		25 Agustus 2017	Plug Valve stuck tidak dapat bergerak	Degraded Failure	Kemungkinan Kotor atau korosi pada plug valve	Plug Valve	Plug valve	Inject cleaner into plug valve	Idle			CLOSE (AGUSTUS 2017)	
008/FAILURE/LBM		37-BV-1030		09 September 2017	Delayed Operation	Degraded Failure	Wiring and fuse failure	Limit switch and fuse for position indicator	Limit switch and fuse	Replace limit switch and reconnect the wiring	Standby	2		CLOSE (SEPTEMBER 2017)	
009/FAILURE/LBM		DEG	Juli 2007 (Commissioning)	5 Oktober 2017	Failure to start on demand	Incipient Failure	High oil pressure sensor	Diesel Engine Generator	Oil pressure sensor	clean sensor	Standby	0,5		CLOSE (OKTOBER 2017)	
010/FAILURE/LBM		1822-PLV-1007	14 Agustus 2014 (Commissioning)	18 Oktober 2017	External leakage	Degraded Failure	Loosen bolt	Plug valve	Grease fitting	tighten the fitting	Standby	1		CLOSE (OKTOBER 2017)	
011/FAILURE/LBM		Fixed Gas Detector area GEG	Juli 2007 (Commissioning)	19 Oktober 2017	Parameter Deviation	Incipient Failure	Dirt at sensor	Fixed gas detector	Sensor	clean sensor	Standby	0,5		CLOSE (OKTOBER 2017)	
012/FAILURE/LBM		Fixed Gas Detector area Near Receiver	Juli 2007 (Commissioning)	21 Oktober 2017	Parameter Deviation	Incipient Failure	Dirt at sensor	Fixed gas detector	Sensor	clean sensor	Standby	0,5		CLOSE (OKTOBER 2017)	
013/FAILURE/LBM		Gas Detector GEG	Juli 2007 (Commissioning)	09 November 2017	Fail to function on demand	Incipient Failure	Cover kotor	Cover	Gas detector sensor	clean sensor	Running	0,25	-	CLOSE (NOVEMBER 2017)	
014/FAILURE/LBM		37-PT-1322	Juli 2007 (Commissioning)	21 November 2017	Parameter Deviation	Degraded Failure	Unknown	Pressure transmitter	Pressure Transmitter	Recalibrate pressure transmitter	Running	2	-	CLOSE (NOVEMBER 2017)	
015/FAILURE/LBM		37-DEG-5020	Juli 2007 (Commissioning)	30 November 2017	Fail to start on demand	Degraded Failure	alarm oil pressure (indikasi permasalahan pada pressure sensor)	Pressure Sensor	fuel filter	replace fuel filter	Idle	1	5526	CLOSE (DESEMBER 2017)	
016/FAILURE/LBM		41-PG-1311	Juli 2007 (Commissioning)	14 Desember 2017	Parameter Deviation	Degraded Failure	Faktor usia alat	Pressure Gauge	Pressure gauge	replace pressure gauge	Running	0,25		CLOSE (DESEMBER 2017)	
017/FAILURE/LBM	Gas Engine Generator	37-GEG-5010	01 Agustus 2008	01 Januari 2018	HIO (High Output)	Degraded Failure	GEG trip due to overspeed alarm. The linkage governor was loosen because of friction.	Governor	Governor	resetting linkage governor	Running	1	7585	CLOSE (JANUARI 2018)	
018/FAILURE/LBM	Shutoff Valve	37-SSV-2132	11 Januari 2016	20 Januari 2018	AIR (Abnormal Instrument Reading)	Degraded Failure	Pressure Indicator shown false value due to aging factor.	Pressure Indicator	Pressure gauge	replace pressure gauge	Standby	1	17760	CLOSE (JANUARI 2018)	
019/FAILURE/LBM	UPS Battery	37-UPS-5050B	16 April 2007	24 Januari 2018	LOC (Battery capacity low)	Degraded Failure	Measurement result shown a really low voltage for Battery No 32. Rack B	UPS Battery	UPS battery	replace battery	Standby	1		CLOSE (SEPTEMBER 2018)	

Record No**	Asset Name	Tag No**	Commissioning Date***	Failure Date**	Failure Mode**	Failure impact on equipment function *(a) **	Failure Cause	Subunit failed	Component/ Maintainable item(s) failed	Maintenance Section	Operating condition at failure *(b)	Repair Time (Hours)	Running Hours at Failure (Hours)****	Status	Remarks
020/FAILURE/LBM	Fire Alarm Panel	FA-B-003	01 Mei 2007	27 Januari 2018	AIR (Abnormal Instrument Reading)	Incipient Failure	Quad gas LED indicator for fixed gas detector at Sludge Catcher area was off, due to dirt or dust at lens cover	Fixed gas detector	Gas detector sensor	clean sensor	Running	0,25	94176	CLOSE (JANUARI 2018)	
021/FAILURE/LBM	Heat Detector		2015	10 Februari 2018	SPO (Spurious Operation)	Critical failure	False alarm, because there are ant nest inside the equipment. It causes the electrical part been shut off.	Heat Detector at waste building	heat detector	replace heat etector	Standby	1		CLOSE (FEBRUARI 2018)	
022/FAILURE/LBM	Smoke detector	FA-C-002	01 Agustus 2007	17 Februari 2018	SPO (Spurious Operation)	Incipient Failure	False alarm, because dust at equipment	Smoke detector at IT room	smoke detector	replace smoke detector	Standby	0,5		CLOSE (FEBRUARI 2018)	
023/FAILURE/LBM	Pressure Transmitter	37-PT-1322	01 Agustus 2007	17 Februari 2018	AIR (Abnormal Instrument Reading)	Incipient Failure	Parameter deviation value	Pressure transmitter	SCADA parameter	resetting SCADA parameter	Running	1		CLOSE MARET 2018)	
024/FAILURE/LBM	Fire Alarm Panel	FA-C-002	01 Mei 2007	22 Februari 2018	FTF (Failure to function on demand)	Degraded Failure	Fire detector at accomodation building area not responded due to failure at interface modul	Interface modul n smoke detector	Interface module	replace interface module	Standby			CLOSE (MEI 2018)	
025/FAILURE/LBM	Pressure Indicator	37-PI-2150	01 Agustus 2007	20 Februari 2018	AIR (Abnormal Instrument Reading)	Critical Failure	Value measurement shown false value	Pressure Indicator	Pressure indicator	Replace unit with a new one	Running	0,5		CLOSE (FEBRUARI 2018)	
026/FAILURE/LBM	Fire Alarm Panel	FA-B-003	01 Mei 2007	24 Februari 2018	AIR (Abnormal Instrument Reading)	Incipient Failure	Quad gas LED indicator for fixed gas detector at near control valve area was off, due to dirt at lens cover	Fixed gas detector	Gas detector sensor	clean sensor	Running	0,5		CLOSE (FEBRUARI 2018)	
027/FAILURE/LBM	Grounding System	Spark Gap Erico Pc 100	29 Juni 1905	24 Februari 2018	Spark Gap tidak berfungsi	Degraded Failure	Sambaran petir di Area Tec Pit integrasi antara control building dan acomodasi building mengakibatkan Spark Gap rusak	Spark Gap Erico Pc 100	Spark gap	Replace unit with a new one	Running	0,5		CLOSE (MARET 2018)	
028/FAILURE/LBM	Lighting Outdoor	Area Red Zone	2007	23 Maret 2018	Lighting tidak berfungsi	Incipient Failure	Trip pada MCB No.5 dan No.6 di Junction box 37-LPDB-5034	MCB	MCB	Replace unit with a new one	Running	24		CLOSE (MARET 2018)	
029/FAILURE/LBM	UPS Battery	37-UPS-5050B	16 April 2007	26 Maret 2018	LOC (Battery capacity low)	Degraded Failure	Measurement result shown a really low voltage for Battery No 41, No 63	UPS Battery	UPS battery	replace battery	Standby	1		CLOSE (SEPTEMBER 2018)	
030/FAILURE/LBM	Valve	37-BV-1337	Juli 2007	06 April 2018	LOU (LOW OUTPUT, UNKNOW READING)	Degraded Failure	Connector loss	Limit switch	Limit switch	reconnect limit switch	Standby	0,5		CLOSE (APRIL 2018)	
031/FAILURE/LBM	Gas Engine Generator	37-GEG-5010	01 Agustus 2008	13 April 2018	LOU (LOW OUTPUT)	Degraded Failure	Supply IGNITION low	IGNITION COIL	ignition coil	replace ignition coil	Running	0,5		CLOSE (APRIL 2018)	
032/FAILURE/LBM	Fire Alarm Panel	FA-B-003	01 Mei 2007	15 April 2018	AIR (Abnormal Instrument Reading)	Incipient Failure	Quad gas LED indicator for fixed gas detector at Sludge Catcher area was off, due to dirt or dust at lens cover	Fixed gas detector	Gas detector sensor	clean sensor	Running	0,5		CLOSE (APRIL 2018)	
033/FAILURE/LBM	Gas Engine Generator	37-GEG-5010	01 Agustus 2008	26 April 2018	LOU (LOW OUTPUT)	Degraded Failure	Supply IGNITION low	IGNITION COIL	ignition coil	replace ignition coil	Running	0,5		CLOSE (APRIL 2018)	
034/FAILURE/LBM	DeepWell Pump	DeepWell Pump	Juli 2007	11 Mei 2018	Kebocoran pada pipa deepwell pump	Degraded Failure	Degrade material	Pipa deepwell pump	deep well pump pipe	Replace limit switch	Running	5		CLOSE (MEI 2018)	
035/FAILURE/LBM		37-BV-1030	Juli 2007	21 Mei 2018	AIR (Abnormal Instrument Reading)	Degraded Failure	Limit switch kotor/rusak	Limit Switch	Limit switch	Replace limit switch	Standby			CLOSE (MEI 2018)	
036/FAILURE/LBM		37-SDV-1081	Juli 2008	21 Mei 2018	AIR (Abnormal Instrument Reading)	Degraded Failure	Limit switch kotor/rusak	Limit Switch	Limit switch	Replace limit switch	Standby	1,5		CLOSE (MEI 2018)	
037/FAILURE/LBM	Lamp		Juli 2007	21 Mei 2018	Trip pada MCB (Lampu teras control building)	Degraded Failure	Ballast dan lampu rusak	Lampu	ballast & lamp	replace ballast & lamp	Running	6		CLOSE (MEI 2018)	
038/FAILURE/LBM	Pressure Transmitter	37-PT-2120	Juli 2007	23 Mei 2018	Pressure Transmitter mati	Degraded Failure	Modul interface Scada rusak	Modul Interface	Interface module	replace interface module	Running	1		CLOSE (MEI 2018)	
039/FAILURE/LBM	Flow Transmitter	37-FT-1322	Juli 2007	23 Mei 2018	Terdapat deviasi nilai flow antara diSCADA dan dilapangan	Degraded Failure	Modul interface Scada rusak	Modul Interface	Interface module	replace interface module	Running	1		CLOSE (MEI 2018)	
040/FAILURE/LBM	Gas Detector	Area Sump Tank (37-V-2140)	1 Mei 2007	26 Mei 2018	AIR (Abnormal Instrument Reading)	Degraded Failure	Faktor usia Field gas detector	Fix Gas detector	Gas detector sensor	clean sensor	Standby	0,25		CLOSE (JUNI 2018)	
041/FAILURE/LBM	Gas Detector	Area Near Receiver (37-R-1020)	1 Mei 2007	26 Mei 2018	AIR (Abnormal Instrument Reading)	Degraded Failure	False alarm due to wet condition at junction box	Fix Gas detector	Gas detector sensor	clean sensor	Standby	1		CLOSE (JUNI 2018)	
042/FAILURE/LBM	Water piping installation at control building		Juli 2007	27 Mei 2018	Kebocoran pada jaringan pipa di control building	Degraded Failure	Faktor usia pipa	Pipa	water pipe installation	repair leakage, replace pipe	Running	28		CLOSE (MEI 2018)	
044/FAILURE/LBM	Gas Detector	Area sludge catcher	1 Mei 2007	5 Juni 2018	AIR (Abnormal Instrument Reading)	Degraded Failure	False alarm due to loosen wiring connection	Fix Gas detector	Gas detector sensor	clean sensor	Standby	0.25		CLOSE (JUNI 2018)	
043/FAILURE/LBM	Fire Alarm Panel	FA-A-001	01 Mei 2007	4 Juni 2018	AIR (Abnormal Instrument Reading)	Degraded Failure	False alarm due to loosen wiring connection	Interface module	Interface module	reconnect interface modul wiring	Standby	0,25		CLOSE (JUNI 2018)	
045/FAILURE/LBM	Gas Detector	Near control valve	1 Mei 2007	6 Juni 2018	AIR (Abnormal Instrument Reading)	Degraded Failure	False alarm due to loosen wiring connection	Fix Gas detector	wiring	Repair wiring connection	Standby	0.25		CLOSE (JUNI 2018)	
046/FAILURE/LBM	DeepWell Pump		Juli 2017	25 Juni 2018	AIR (Abnormal Instrument Reading)	Degraded Failure	Deep well not working properly due to auto level switch was broken, has been replaced by a new one	auto level switch	auto level switch	replace level switch	Standby	2		CLOSE (JUNI 2018)	
047/FAILURE/LBM	Lighting Outdoor	Dormitory area and in front of telecomm. building	Juli 2007	19 Juni 2018	FTF (Failure to function on demand)	Degraded Failure	Lifetime of light bulb and leakage at lamp housing	Light bulb and lamp housing	Light bulb and lamp housing	replace light bulb and repair housing	Running	1		CLOSE (JUNI 2018)	
048/FAILURE/LBM	Air conditioning system	Dormitory area	03 Juli 1905	13 Juni 2018	FTF (Failure to function on demand)	Degraded Failure	3 unit AC are icying because of dirt and plugged drain line. 2 unit AC lack of freon and 1 of them need overload replacement	overload	overload	replace overload and clean AC component	Running	4		CLOSE (JUNI 2018)	
050/FAILURE/LBM	Gas Detector	Area Sump Tank (37-V-2140)	1 Mei 2007	25 Juli 2018	AIR (Abnormal Instrument Reading)	Degraded Failure	Faktor usia Field gas detector	Fix Gas detector	fix gas detector	replace fix gas detector	Standby			CLOSE (DESEMBER 2018)	
051/FAILURE/LBM	Sensor Oil Pressure	DEG	Juli 2007 (Commissioning)	28 Juli 2018	Failure to start on demand	Incipient Failure	High oil pressure sensor	Diesel Engine Generator	Oil pressure sensor	resetting the sensor spring	Standby	1		CLOSE (JULI 2018)	
052/FAILURE/LBM	UPS Battery	37-UPS-5050A	16 April 2007	30 Juli 2018	LOC (Battery capacity low)	Degraded Failure	Measurement result shown a really low voltage for Battery No 38. Rack A	UPS Battery	UPS battery	replace battery	Standby	1		CLOSE (SEPTEMBER 2018)	
053/FAILURE/LBM	Air conditioning system	Dormitory area	Juli 2012	31 Juli 2018	FTF (Failure to function on demand)	Degraded Failure	3 unit AC are broken. 1 Unit replace PCB Module, 1 Unit replace capacitor, 1 Unit replace fan outdoor	PCB module, capacitor, outdoor fan	PCB module, capacitor, outdoor fan	replace PCB module, capacitor, outdoor fan	Running	4		CLOSE (JULI 2018)	

Record No**	Asset Name	Tag No**	Commissioning Date***	Failure Date**	Failure Mode**	Failure impact on equipment function *(a) **	Failure Cause	Subunit failed	Component/ Maintainable item(s) failed	Maintenance Section	Operating condition at failure *(b)	Repair Time (Hours)	Running Hours at Failure (Hours)****	Status	Remarks
054/FAILURE/LBM	Ball Valve	37-BV-1030	Juli 2007	03 Agustus 2018	AIR (Abnormal Instrument Reading)	Degraded Failure	Broken limit switch at positioner indicator	limit switch	Limit switch	replace limit switch	Running	1		Close (3 Agustus 2018)	
055/FAILURE/LBM	Shut Down Valve	37-SDV-1081	Juli 2007	04 Agustus 2018	AIR (Abnormal Instrument Reading)	Degraded Failure	Broken limit switch at positioner indicator	limit switch	Limit switch	replace limit switch	Running	1		Close (4 Agustus 2018)	
056/FAILURE/LBM	Gas Engine Generator	37-GEG-5010	01 Agustus 2008	09 Agustus 2018	LOU (LOW OUTPUT)	Degraded Failure	Broken ignition coil	IGNITION COIL	ignition coil	replace ignition coil	Running	1		Close (9 Agustus 2018)	
057/FAILURE/LBM	Gas Engine Generator	37-GEG-5010	01 Agustus 2008	10 Agustus 2018	LOU (LOW OUTPUT)	Degraded Failure	Broken fan belt	fan belt	fan belt	replace fan belt	Running	2		Close (10 Agustus 2018)	
058/FAILURE/LBM	F&G Panel			28 Agustus 2018	AIR (Abnormal Instrument Reading)	Degraded Failure	Anomaly at module fire alarm panel	fire alarm panel	fire alarm panel	Reprogramming the alarm panel	Standby	2		Close (SEPTEMBER 2018)	
059/FAILURE/LBM	Outdoor lamp			29 Agustus 2018	FTF (Failure to function on demand)	Degraded Failure	Broken trafo		trafo		Standby			Open (Dalam tahap perbaikan/penggantian)	
054/FAILURE/LBM	SDV	37-SDV-1022		8/31/2009	External leakage	Degraded Failure	leak pada control box	Control box							
055/FAILURE/LBM	SDV	37-SDV-1022		4/24/2010	External leakage	Degraded Failure	Kebocoran diantara cover dan solenoid valve body pada actuator 37-SDV-1022	Actuator	O-ring	Telah dilakukan penggantian o-ring pada control box actuator 37-SDV-1022	Running			14 Maret 2012	
056/FAILURE/LBM	SDV	37-SDV-1022		3/14/2012	External leakage	Degraded Failure	Kebocoran diantara cover dan solenoid valve body pada actuator 37-SDV-1022	Actuator	O-ring	Telah dilakukan penggantian o-ring pada control box actuator 37-SDV-1022	Running			14 Maret 2012	
057/FAILURE/LBM	SDV	37-SDV-1081		1/4/2013	Abnormal Instrument Reading	Degraded Failure	Tampilan SCADA pada instrument 37-SDV-1081 menunjukkan posisi traveling-time out, dikarenakan limit switch di lapangan dalam kondisi rusak (terkorosi)	Limit Switch	Limit Switch	Telah dilakukan penggantian limit switch dan fuse di RTU, saat ini tampilan SCADA sudah normal kembali.	Running			Mei 2012	
058/FAILURE/LBM	SDV	37-SDV-1022		5/31/2013	Abnormal Instrument Reading	Degraded Failure	Tampilan SCADA pada instrument 37-SDV-1022 menunjukkan posisi traveling.	Limit Switch	Magnet position	Telah dilakukan pengecekan & perbaikan dilapangan dan ditemukan permasalahan pada limit switch/magnet position, yang mana kurang menempel pada indikator valve (indikator valve tidak menyentuh magnet position)	Running			Mei 2013	
059/FAILURE/LBM	SDV	37-SDV-1081		9/30/2013	Abnormal Instrument Reading	Degraded Failure	Tampilan SCADA untuk 37-SDV-1081 menunjukkan travelling time out	Limit Switch	Limit Switch	Telah dilakukan perbaikan dengan melepas dan menyetting ulang limit switch.	Running			September 2013	
060/FAILURE/LBM	SDV	37-SDV-1081		11/30/2013	Abnormal Instrument Reading	Degraded Failure	Indikator 37-SDV-1081 di SCADA blinking	Magnet position	Magnet position	Melakukan reposisi open-closed 37-SDV-1081	Running			November 2013	
061/FAILURE/LBM	SDV	37-SDV-1081		2/27/2014	Abnormal Instrument Reading	Degraded Failure	Posisi close pada 37-SDV-1081 phase I tidak terdeteksi pada saat simulasi lapangan	Limit Switch	Limit Switch	Dilakukan penggantian limit switch untuk ZSO dan ZSC untuk opening indikator valve	Running			27 Februari 2014	
062/FAILURE/LBM	SDV	37 SDV 1022		11/28/2014	External leakage	Degraded Failure	terdapat leak di inlet regulator 37 SDV 1022	Regulator	Joint	telah dilakukan perbaikan dengan menggunakan seal tape	Running			29 November 2014	
063/FAILURE/LBM	SDV	37 SDV 1022		11/28/2014	External leakage	Degraded Failure	terdapat leak di solenoid opening 37 SDV 1022	Aktuator	Selenoid	Solenoid sudah diganti dengan yang baru	Running			Desember 2014	
064/FAILURE/LBM	SDV	37-SDV-1081		6/12/2015	External leakage	Degraded Failure	Terdapat leak pada control box 37-SDV-1081 Area Receiver Phase I	Control box	O-ring	Dilakukan pembersihan permukaan o-ring dan dilapisi molycote pada tanggal 3 agustus 2015	Running			3 Agustus 2015	
065/FAILURE/LBM	SDV	37-SDV-1081		12/27/2015	External leakage	Degraded Failure	Terdapat kebocoran pada Tubing Inlet suply ke Actuator 37-SDV-1081	Tubing	Seal	Repair leak pada inlet valve supply gas actuator 37-SDV-1081 (close)	Running			27 Desember 2015	
066/FAILURE/LBM	SDV	37 SDV 1022		2/23/2016	External leakage	Degraded Failure	Terdapat Leak pada solenoid valve 37 SDV 1022, Pada bagian three way valve	Actuator	Three Way Valve	Telah dilakukan perbaikan dengan cara pengencangan pada bagian three way valve	Running			28 Februari 2016	
067/FAILURE/LBM	DEG	DEG		5/29/2010	Overheating	Critical Failure	Kumparan Stator Generator DEG terbakar	Generator	Kumparan Stator Generator	Dilakukan perbaikan dengan penggantian kumparan by PT. Traknus	Running			29 Mei 2010	
068/FAILURE/LBM	DEG	DEG		6/23/2010	External Leakage - Utility Medium	Critical Failure	Oli merembes melalui celah body mesin DEG	Engine	Seal	Dilakukan perbaikan dengan penambahan silicon seal	Running			23 Juni 2010	
069/FAILURE/LBM	DEG	DEG		7/15/2010	Spurious Stop	Critical Failure	Pada tanggal 15 Juli 2010 DEG tiba-tiba mati, petugas di lapangan mengecek status DEG dan ditemukan alarm "SD gen >V" yang menandakan bahwa output voltage yang dihasilkan DEG melebihi batas voltage yang diijinkan yaitu sekitar 430 V (Normal 380 V), setelah dilakukan trouble shooting disimpulkan bahwa AVR (automatic voltage regulator) mengalami kerusakan, diusulkan untuk dilakukan penggantian AVR	Control & Monitoring	AVR	Telah dilakukan perbaikan dengan mengganti AVR yang rusak by PT. Traknus	Running			17 Juli 2010	

Record No**	Asset Name	Tag No**	Commissioning Date***	Failure Date**	Failure Mode**	Failure impact on equipment function *(a) **	Failure Cause	Subunit failed	Component/ Maintainable item(s) failed	Maintenance Section	Operating condition at failure *(b)	Repair Time (Hours)	Running Hours at Failure (Hours)****	Status	Remarks
070/FAILURE/LBM	DEG			7/16/2010	Fail to start on demand	Critical Failure	Terdapat kebocoran elektrolit pada area kutub negatif baterai stater DEG. Hal ini bisa mengakibatkan kerusakan permanen pada baterai.	Power Transmission	Battery	Sudah dilakukan penggantian dengan aki yang baru	Running			16 Juli 2010	
071/FAILURE/LBM	DEG	DEG		17 Juli 2011			Oli, Filter Oli dan Filter Udara DEG sudah saatnya diganti			Telah dilakukan penggantian Oli, Filter Oli dan Filter Udara DEG	Running				
072/FAILURE/LBM	DEG	DEG		9/17/2011	Spurious Stop	Critical Failure	DEG tiba-tiba berhenti beroperasi karena Alarm "Sd Oil Pressure & Fls Oil Pressure". Kerusakan terjadi pada Sender Oil Pressure.	Lubrication	Sender oil pressure	Telah dilakukan penggantian Sender Oil Pressure	Running			17 september 2011	
073/FAILURE/LBM	GEG	GEG		9/20/2011	Overheating	Critical Failure	Kisi-Kisi Radiator GEG banyak kotoran	Cooling System	Radiator	Telah dilakukan pembersihan dan penggantian air dancoolant radiator	Running			20 september 2011	
074/FAILURE/LBM	DEG	DEG		9/22/2011	Spurious Stop	Critical Failure	DEG tiba-tiba berhenti beroperasi karena Alarm "Sd RPMMeasFail". Setelah dilakukan pemeriksaan kerusakan terjadi pada sensor pembaca putaran mesin yaitu MPU (Magnetic Pick Up)	Cotrol & Monitoring	Mangnetic Pick Up	Telah dilakukan penggantian MPU	Running			24 September 2011	
075/FAILURE/LBM	DEG	DEG		31/9/2011	Fail to start on demand	Critical Failure	DEG mengalami kegagalan start disebabkan alarm "RPM measurement failure".	Cotrol & Monitoring	Mangnetic Pick Up	Telah dilakukan penyetingan ulang pada MPU oleh pihak ketiga (TRAKNUS) dan merubah setting starting RPM dari 25% menjadi 8%.	Running			4 oktober 2011	
076/FAILURE/LBM	GEG	GEG		10/5/2011	Fail to start on demand	Critical Failure	GEG tidak dapat running karena aki GEG rusak	Power Transmission	Battery	Dilakukan penggantian dengan Aki merk Delkor 150A	Running			10 oktober 2011	
077/FAILURE/LBM	DEG	DEG		10/10/2011	Fail to start on demand	Critical Failure	Aki DEG rusak	Power Transmission	Battery	Dilakukan penggantian dengan Aki merk Delkor 100A	Running			10 oktober 2011	
078/FAILURE/LBM	DEG	DEG		11/15/2011	Spurious Stop	Critical Failure	DEG shutdown dikarenakan adanya udara yang terperangkap di dalam sistem supply bahan bakar.	Power Transmission	Fuel Injection Pump	Udara yang terperangkap di dalam sistem supply bahan bakar telah dikeluarkan dan DEG telah dapat beroperasi dengan baik.	Running			15 Nopember 2011	
079/FAILURE/LBM	DEG	DEG		8/31/2012	Fail to start on demand	Critical Failure	DEG gagal START dan muncul alarm RPM Meas Fail & SD START Fail	Power Transmission	Starting RPM	Telah dilakukan pengecekan sensor RPM (kondisi OK), dilakukan penyetelan starting RPM	Running			Agustus 2012	
080/FAILURE/LBM	DEG	DEG		9/30/2012	Fail to start on demand	Critical Failure	DEG gagal START dan muncul alarm RPM Meas Fail & SD START Fail	Power Transmission	Fuel Injection Pump	Telah dilakukan pengecekan sensor RPM (kondisi OK, output voltage 2 Vac), dilakukan penyetelan starting RPM (5%). Setelah dilakukan pengecekan lebih lanjut terlihat bahwa aliran fuel (solar) ke nozzle lemah. Indikasi FUEL INJECTION PUMP lemah	Running			September 2012	
081/FAILURE/LBM	DEG	DEG		2/28/2013	Structural Deficiency	Degraded Failure	Terdapat korosi pada permukaan pipa knalpot DEG yang dapat mengurangi kekuatan pipa.	Power Transmission	Piping	Telah dilakukan pelepasan pipa pnalpot, pembersihan korosi dan pengecatan dasar serta dilakukan pemasangan kembali.	Running			Februari 2013	
082/FAILURE/LBM	DEG	DEG		2/28/2013	Structural Deficiency	Degraded Failure	Fan Belt DEG yang lama telah kendur	Power Transmission	Fan Belt	Telah dilakukan penggantian fan belt yang kendur dengan fan belt yang baru dan telah dilakukan running test.	Running			Februari 2013	
083/FAILURE/LBM	DEG	DEG		12/31/2013	Spurious Stop	Critical Failure	Sensor oil pressure Diesel Engine Generator error	Power Transmission	Sensor oil	Telah dilakukan penggantian sensor oil pressure	Running			17 Desember 2013	
084/FAILURE/LBM	DEG	DEG		9/25/2014	Fail to start on demand	Critical Failure	Baterai DEG lemah pada saat starter	Power Transmission	Battery	Baterai DEG diganti dengan yang baru (baterai kering). Starter normal kembali	Running			25-Sep-14	
085/FAILURE/LBM	DEG	DEG		9/27/2014	External Leakage - Utility Medium	Critical Failure	Radiator DEG basah dan kotor oleh uap oli yang keluar dari saluran breather	Power Transmission	Radiator	Radiator sudah dibersihkan sekaligus mengganti coolant radiator	Running			7 oktober 2014	

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086/FAILURE/LBM	DEG	DEG		3/17/2016	Faulty Output Voltage	Critical Failure	Diesel Engine Generator trip karena Voltage Unbalance	Electric Generator	Stator	Dilakukan pengencangan baut koneksi kumparan stator DEG	Running			18 Maret 2016	
087/FAILURE/LBM	DEG	DEG		12/8/2016	Fail to start on demand	Critical Failure	Battery start DEG low voltage dan tidak dapat dipergunakan untuk start engine	Power Transmission	Battery	Telah dilakukan penggantian battery dengan spesifikasi yang serupa pada 11 Desember 2016	Running			11 Desember 2016	
088/FAILURE/LBM	DEG	DEG		12/12/2016	Overheating	Critical Failure	Diketemukan terdapat kebocoran pada cranksaft (cover) cooler pump air radiator sehingga menyebabkan high temperature pada DEG	Cooling System	Cranksaft	Dilakukan perbaikan dengan cara menambal bagian yang berlubang dengan las aluminium 13 Desember 2016	Running			13 Desember 2016	
089/FAILURE/LBM	Pressure Indicator	37-PI-2120 (SC Phase I)	Juli 2007	08 September 2018	AIR (Abnormal Instrument Reading)	Degraded Failure	Degrade material	Pressure Indicator	Pressure Indicator	Clean display	Running	0,5		CLOSE (8 SEPTEMBER 2018)	
090/FAILURE/LBM	Pressure Indicator	37-PI-1336 (Cross Over)	Mei 2007	08 September 2018	AIR (Abnormal Instrument Reading)	Degraded Failure	Degrade material	Pressure Indicator	Pressure Indicator	Clean display	Running	0,5		CLOSE (8 SEPTEMBER 2018)	
091/FAILURE/LBM	Pressure Indicator	71-PI-1321 (PL PHASE II)	Mei 2007	08 September 2018	AIR (Abnormal Instrument Reading)	Degraded Failure	Degrade material	Pressure Indicator	Pressure Indicator	Clean display	Running	0,5		CLOSE (8 SEPTEMBER 2018)	
092/FAILURE/LBM	Air conditioning system	Dormitory area	Juli 2012	17 September 2018	FTF (Failure to function on demand)	Degraded Failure	4 unit AC failure, 2 unit problem at sensor modul, 1 problem at stop contact, 1 problem at compressor fan	Sensor modul, stop contact, compressor fan	Sensor modul, stop contact, compressor fan	replace ensor modul, stop contact, compressor fan	Running	4		CLOSE (17 SEPTEMBER 2018)	
093/FAILURE/LBM	Gas Engine Generator	37-GEG-5010	01 Agustus 2008	22 September 2018	AIR (Abnormal Instrument Reading)	Degraded Failure	Engine problem	Oil pressure high	Pressure indicator	Process Top OverHaul	Running			OPEN (Termasuk Pekerjaan Top Overhaul GEG)	
094/FAILURE/LBM	Gas Engine Generator	37-GEG-5010	01 Agustus 2008	23 September 2018	OHE (Overheating)	Degraded Failure	Overheat because dirt at fan & radiator fin.	Radiator	Radiator coolant	clean radiator & replace coolant	Running	4		CLOSE (23 SEPTEMBER 2018)	
095/FAILURE/LBM	CCTV	Camera at Waste building & Security post	Oktober 2016	24 September 2018	UST (Spurious Stop)	Degraded Failure	Water seep into circuit	CCTV	CCTV	Replace CCTV	Running	4		CLOSE (NOPEMBER 2018)	
096/FAILURE/LBM	Outdoor lamp	Sump tank area		25 September 2018	FTF (Failure to function on demand)	Degraded Failure	Broken component	Light bulb	light bulb	replace light bulb	Standby	1		CLOSE (25 SEPTEMBER 2018)	
097/FAILURE/LBM	Deep Well Pump	Deep Well Pump	Juli 2007	25 September 2018	FTF (Failure to function on demand)	Degraded Failure	Broken component, phase failure relay & level controller	Panel	Phase failure relay, level controller	replace component	Standby	2		CLOSE (25 SEPTEMBER 2018)	
098/FAILURE/LBM	UPS Battery	37-UPS-5050A	16 April 2007	28 September 2018	LOC (Battery capacity low)	Degraded Failure	Measurement result shown a really low voltage for Battery No 58	UPS Battery	Batteries	replace battery	Standby	1		CLOSE (28 SEPTEMBER 2018)	
099/FAILURE/LBM	Fire Alarm Panel	FA-C-002	01 Mei 2007	29 September 2018	FTF (Failure to function on demand)	Degraded Failure	Broken at interface module No 001 & 003	interface module	Interface module	replace interface module	Running	1		CLOSE (29 SEPTEMBER 2018)	
0100/FAILURE/LBM	Fire Alarm Panel	FA-A-001	01 Mei 2007	29 September 2018	AIR (Abnormal Instrument Reading)	Degraded Failure	Network port fail alarm occur	fire alarm panel	fire alarm panel	resetting fire alarm panel	Running	2		CLOSE (29 SEPTEMBER 2018)	
0101/FAILURE/LBM	Fire Alarm Panel	FA-C-002	01 Mei 2007	25 September 2018	LOU (LOW OUTPUT)	Degraded Failure	Battery fail alarm occur	batteries	Batteries	replace battery	Running	0,5		CLOSE (29 SEPTEMBER 2018)	
0103/FAILURE/LBM	Electrical component			08 Oktober 2018	FTF (Failure to function on demand)	Degraded Failure	Arrester power failed	Arrester	Arrester power		Standby			OPEN (PROSES PENGADAAN SPARE PART)	
0104/FAILURE/LBM	Electrical component			08 Oktober 2018	FTF (Failure to function on demand)	Degraded Failure	Arrester data failed	Arrester	Arrester data		Standby			OPEN (PROSES PENGADAAN SPARE PART)	
0105/FAILURE/LBM	Pressure Indicator	37-PI-1061		11 Oktober 2018	AIR (Abnormal Instrument Reading)	Degraded Failure	Degrade material	Pressure indicator	Pressure indicator	Replace Pressure indicator	Running	1		CLOSE (11 OKTOBER 2018)	
0106/FAILURE/LBM	CCTV			15 Oktober 2018	FTF (Failure to function on demand)	Degraded Failure	Problem at hard disk, VGA & monitor due to age factor	hard disk, VGA & monitor	HD, VGA, monitor & CPU component		Running			OPEN	
0107/FAILURE/LBM	CCTV for waste building			20 Oktober 2018	FTF (Failure to function on demand)	Degraded Failure	Losses connection at video cable for CCTV	CCTV	CCTV	Replace CCTV	Running	4		CLOSE (NOPEMBER 2018)	
0108/FAILURE/LBM	Deep Well Pump		Juli 2007	22 Oktober 2018	FTF (Failure to function on demand)	Degraded Failure	Problem at pump	Submersible pump	Submersible pump	Repair Submersible pump	Running	5		CLOSE (2 NOVEMBER 2018)	
0109/FAILURE/LBM	Diesel Engine Generator	37-DEG-5010	Juli 2007	25 Oktober 2018	ELU (External Leakage)	Degraded Failure	Lubricant leakage from drain valve	Drain valve	Seal tape drain valve	Reinstall drain valve	Standby	1		CLOSE (1 NOVEMBER 2018)	
0110/FAILURE/LBM	Gas Engine Generator	37-GEG-5010	01 Agustus 2008	26 Oktober 2018	FTS (fail to start on demand)	Degraded Failure	Broken fan belt	fan belt	fan belt	Replace Fan Belt	Standby	3		CLOSE (26 OKTOBER 2018)	
0112/FAILURE/LBM	Gas Engine Generator	37-GEG-5010	01 Agustus 2008	04 November 2018	FTF (Failure to function on demand)	Incipient Failure	Time for top overhaul				Running			OPEN (PROSES TOP OVERHAUL VENDOR)	

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0113/FAILURE LBM	Diesel Engine Generator	37-DEG-5010	Juli 2007	13 November 2018	ELU (External Leakage)	Degraded Failure	Lubricant leakage from engine	Leakage Engine DEG	seal crankshaft	Replace seal crankshaft	Running			CLOSE (19 NOPEMBER 2018)	
0114/FAILURE/LBM	Lampu gedung			19 November 2018	FTF (Failure to function on demand)	Degraded Failure	Due to lifetime of lamp	Lamp broken	lamp	Replace Lamp	Standby	2		CLOSE (19 NOPEMBER 2018)	
0115/FAILURE/LBM	EVC Data Loggor PC			23 November 2018	FTF (Failure to function on demand)	Degraded Failure	VGA card broken	CPU not running	VGA card broken	Replace VGA card	Running	2		CLOSE (24 NOPEMBER 2018)	
0116/FAILURE/LBM	Diesel Engine Generator	37-DEG-5010	Juli 2007	13 November 2018	FTS (fail to start on demand)	Degraded Failure	ACB problem	CB not response	ACB	Reconnection cable	Standby	1		CLOSE (25 NOPEMBER 2018)	
0117/FAILURE/LBM	Pressure Transmitter	71-PT-1320	Juli 2007	7 Desember 2018	AIR (Abnormal Instrument Reading)	Degraded Failure	Degrade material	Reading failed	Pressure Transmitter		Running			OPEN	
0118/FAILURE/LBM	Pig Signal	37-Zi-1061	2007	9 Desember 2018	FTF (Failure to function on demand)	Incipient Failure	Degrade material	Reading failed	Magnetic Limit switch	Reposition Magnetic Limit switch	Standby	0.5		CLOSE (9 DESEMBER 2018)	
0119/FAILURE/LBM	Pig Signal	37-ZS-1020	2007	11 Desember 2018	FTF (Failure to function on demand)	Incipient Failure	Degrade material	Reading failed	Magnetic Limit switch	Reposition Magnetic Limit switch	Standby	0.5		CLOSE (11 DESEMBER 2018)	
0120/FAILURE/LBM	Limit Switch	37-BV-1337	2007	15 Desember 2018	AIR (Abnormal Instrument Reading)	Incipient Failure	Magnet kotor dan berkarat, dan terdapat kabel yang putus	Red zone	Limit switch	Reconnection cable	Standby	1		CLOSE (15 DESEMBER 2018)	
0121/FAILURE/LBM	Gas Detector	Area Near Receiver (37-R-1020)	1 Mei 2007	18 Desember 2018	AIR (Abnormal Instrument Reading)	Degraded Failure	Faktor usia Field gas detector	Fix Gas detector abnormal	Fix Gas detector	Replace Fix Gas detector	Standby	1		CLOSE (18 desember 2018)	
0122/FAILURE/LBM	Gas Detector	Area Sumptank (37-V-2140)	1 Mei 2007	18 Desember 2018	AIR (Abnormal Instrument Reading)	Degraded Failure	Faktor usia Field gas detector	Fix Gas detector abnormal	Fix Gas detector	Replace Fix Gas detector	Standby	1		CLOSE (18 desember 2018)	
0123/FAILURE/LBM	Fire Alarm Panel	FA-C-002	01 Mei 2007	21 Desember 2018	FTF (Failure to function on demand)	Degraded Failure	Broken at interface module No 004	interface module	Interface module		Running			OPEN	
0124/FAILURE/LBM	UPS Battery	37-UPS-5050A	16 April 2007	30 Desember 2018	LOC (Battery capacity low)	Degraded Failure	Measurement result shown a really low voltage for Battery No 22 & 54	LOC (Battery capacity low)	Batteries	Replace Batteries	Standby	1		CLOSE (30 DESEMBER 2018)	
0125/FAILURE/LBM	Gas Engine Generator	37-GEG-5010	01 Agustus 2008	25 Januari 2019	OHE (Overheating)	Degraded Failure	Overheat temperature switch	Contactor	Contactor As-Water temperature error		Running			OPEN	
001/FAILURE/TBB	Gas Detector	Area Sump Tank (15-07-1001)	Juli 2007	28 September 2017	Kerusakan/tidak berfungsi saat dilakukan uji fungsi	Degraded Failure	Faktor usia Field gas detector	Fix Gas detector	Fix Gas detector	Dilakukan penggantian fix Gas detector	Standby			CLOSE (JULI 2018)	
002/FAILURE/TBB	Gas Detector	Area GEG	Juli 2007	28 September 2017	Kerusakan/tidak berfungsi saat dilakukan uji fungsi	Degraded Failure	Faktor usia Field gas detector	Fix Gas detector	Fix Gas detector	Dilakukan penggantian fix Gas detector	Standby	5		CLOSE (MARET 2018)	
003/FAILURE/TBB	Gas Detector	Area Fuel Gas Package	Juli 2007	22 Desember 2017	Kerusakan/tidak berfungsi saat dilakukan uji fungsi	Degraded Failure	Faktor usia Field gas detector	Fix Gas detector	Fix Gas detector	Dilakukan penggantian fix Gas detector	Standby			CLOSE (JULI 2018)	
004/FAILURE/TBB	Gas Detector	Area Receiver Phase II	Juli 2007	27 Desember 2017	Kerusakan/tidak berfungsi saat dilakukan uji fungsi	Degraded Failure	Faktor usia Field gas detector	Fix Gas detector	Fix Gas detector	Dilakukan penggantian fix Gas detector	Standby	5		CLOSE (MARET 2018)	
005/FAILURE/TBB	UPS Battery	Battery UPS Rack A	Juli 2007	14 Januari 2018	Tegangan drop dari kondisi normal	Degraded Failure	Faktor usia Battery	(No. 03 : 6,53 Volt) (No. 10 : 6,6 Volt) (No. 67 : 5,72 Volt)	Batteries	Dilakukan penggantian Batteries	Standby			CLOSE (JUNI 2018)	
006/FAILURE/TBB	UPS Battery	Battery UPS Rack B	Juli 2007	14 Januari 2018	Tegangan drop dari kondisi normal	Degraded Failure	Faktor usia Battery	(No. 15 : 5,97 Volt) (No. 47 : 6,6 Volt)	Batteries	Dilakukan penggantian Batteries dengan batteries pada Rack yang masih OK	Standby			CLOSE (JUNI 2018)	
007/FAILURE/TBB	Platform Sump Tank		2007	1 Juli 2018	Cat pudar dan berkarat	Incipient Failure	Faktor cuaca	Cat Platform	Cat Platform	Dilakukan pengecatan ulang	Standby	70		CLOSE (JULI 2018)	
008/FAILURE/TBB	Shut Down Valve	35-SDV-1081	2007	24-Mar-09	Leak pada plug vent valve	Incipient Failure	Kemungkinan kotor pada Ball Valve	vent valve	Plug vent valve	Dilakukan pengencangan pada baut sambungan	Standby	1		CLOSE (24 MARET 2009)	
009/FAILURE/TBB	Shut Down Valve	35-SDV-1081	2007	2-Apr-16	Leak pada koneksi tubing aktuator	Incipient Failure	Kemungkinan kurang kencang	aktuator	Tubing aktuator	Dilakukan pengencangan pada baut sambungan	Standby	1		CLOSE (2 APRIL 2016)	
010/FAILURE/TBB	Shut Down Valve	35-SDV-1023	2007	9-Dec-09	Leak pada koneksi tubing aktuator	Incipient Failure	Kemungkinan kurang kencang	aktuator	Tubing aktuator	Dilakukan pengencangan pada baut sambungan	Standby	1		CLOSE (9 DESEMBER 2009)	
011/FAILURE/TBB	Shut Down Valve	35-SDV-1023	2007	10-Jan-11	Leak pada PSV aktuator	Incipient Failure	Kotor	PSV aktuator	PSV aktuator		Standby	2		CLOSE (11 JANUARI 2011)	
012/FAILURE/TBB	Shut Down Valve	35-SDV-1023	2007	10-Feb-12	Leak pada PSV aktuator	Incipient Failure	Spring PSV kendor/tidak pas	PSV aktuator	PSV aktuator		Standby	2		CLOSE (11FEBRUARI 2012)	
013/FAILURE/TBB	Shut Down Valve	35-SDV-1023	2007	3-Mar-14	Leak pada control box aktuator	Incipient Failure	Kemungkinan kendor	aktuator	Control box aktuator	Dilakukan pengencangan pada baut sambungan	Standby	1		CLOSE (3 MARET 2014)	
014/FAILURE/TBB	GEG Battery	Battery GEG (2 Buah)	Juli 2007	7 Mei 2018	Tegangan drop dari kondisi normal dan indikator battery berwarna merah	Degraded Failure	Faktor usia Battery	(Battery 1 : 9,45 Volt (Battery 2 : 12,31 Volt)	Batteries	Dilakukan penggantian Batteries	Standby	1		CLOSE (JUNI 2018)	
015/FAILURE/TBB	Lighting Outdoor	Area Red Zone(400 watt)	2007	9 Agustus 2018	Lighting tidak berfungsi	Incipient Failure	Box Lampu mengalami kerusakan, karena sudah diganti dengan lampu baru tetapi lampu tetap tidak menyala	Lighting Outdoor	Lampu	Dilakukan penggantian lampu dan perbaikan box lampu	Running			CLOSE (SEPTEMBER 2018)	
016/FAILURE/TBB	Lighting Outdoor	Area Red Zone	2007	9 Agustus 2018	Lighting tidak berfungsi	Incipient Failure	Box Lampu mengalami kerusakan, karena sudah diganti dengan lampu baru tetapi lampu tetap tidak menyala	Lighting Outdoor (400 Watt)	Box lampu	Dilakukan penggantian komponen box lampu	Running	4		CLOSE (SEPTEMBER 2018)	
017/FAILURE/TBB	Platform Slug Catcher Phase 1 dan 2	Area Red Zone	2007	27 Juli 2018	Cat pudar dan berkarat	Incipient Failure	Faktor cuaca	Cat Platform	Cat Platform	Dilakukan pengecatan ulang	Running	70		CLOSE (SEPTEMBER 2018)	
018/FAILURE/TBB	ATS (Automatic Transfer Switch)	Electrical Room	2007	20-Sep-18	ATS tidak fungsi secara normal	Degraded Failure	Faktor Usia (Komponen ATS sudah mulai mengalami penurunan fungsi)	PDB (Power Distribution Board)	ATS	Dilakukan penggantian ATS dan ACP	Running			CLOSE (OKTOBER 2018)	
019/FAILURE/TBB	Limit Switch	Area Red Zone(35-HCV-1327)	2007	20-Sep-18	Indicator pada SCADA traveling	Degraded Failure	Faktor cuaca (limit switch tergenang air dan berkarat)	35-HCV-1327	Limit Switch	Dilakukan pembersihan kontrol box dan perbaikan limit Switch	Running	1		CLOSE (SEPTEMBER 2018)	
020/FAILURE/TBB	Lampu gedung	Gedung Security	2007	30-Sep-18	Lampu mati	Incipient Failure	Faktor usia	Gedung Security	Lampu	Dilakukan penggantian lampu	Running	1		CLOSE (SEPTEMBER 2018)	

Record No**	Asset Name	Tag No**	Commissioning Date***	Failure Date**	Failure Mode**	Failure impact on equipment function *(a) **	Failure Cause	Subunit failed	Component/ Maintainable item(s) failed	Maintenance Section	Operating condition at failure *(b)	Repair Time (Hours)	Running Hours at Failure (Hours)****	Status	Remarks
021/FAILURE/TBB	DEG	Gedung DEG	2007	19 Oktober 2018	Abnormal instrument reading	Degraded Failure	DEG tidak dapat running mode auto dikarenakan terdapat eror pada alternator temperature	DEG	Kabel alternator temperatur lepas	Dilakukan pemasangan dan pengencangan sambungan kabel	Running			CLOSE (NOVEMBER 2018)	
022/FAILURE/TBB	Lighting	Gedung akomodasi dan gedung DEG	2007	19 Oktober 2018	Lighting tidak berfungsi	Incipient Failure	Faktor usia lampu	Gedung akomodasi & Gedung DEG	Lampu	Dilakukan penggantian lampu	Standby	1		CLOSE (OKTOBER 2018)	
023/FAILURE/TBB	Lighting (Ballast)	Gedung akomodasi dan gedung DEG	2007	19 Oktober 2018	Lighting tidak berfungsi	Incipient Failure	Faktor usia lampu	Gedung akomodasi & Gedung DEG	Ballast	Dilakukan penggantian ballast	Standby	1		CLOSE (OKTOBER 2018)	
024/FAILURE/TBB	Lighting Outdoor	Area Red Zone	2007	20 Oktober 2018	Lighting tidak berfungsi	Incipient Failure	Faktor usia lampu	Lighting Outdoor (250 watt)	Lampu	Dilakukan penggantian lampu	Standby	1		CLOSE (OKTOBER 2018)	
025/FAILURE/TBB	Arester data	Area Red Zone	2007	1-Oct-18	Tidak berfungsi	Degraded Failure	Faktor cuaca	Juntion Box	Arester	Dilakukan penggantian arester	Running	1		CLOSE (OKTOBER 2018)	
026/FAILURE/TBB	Fuse Quad Gas	Gedung Kontrol	2007	1-Oct-18	Abnormal instrument reading	Degraded Failure	Faktor usia	Guad gas FA-B-004	Fuse	Dilakukan penggantian fuse	Running			CLOSE (OKTOBER 2018)	
027/FAILURE/TBB	Solenoid FM200	Gedung Control	2007	1-Oct-18	Abnormal instrument reading	Degraded Failure	Faktor usia	Shelter FM200	Solenoid	Dilakukan penggantian solenoid	Running			CLOSE (OKTOBER 2018)	
028/FAILURE/TBB	Limit Switch	Area Red Zone	2007	22-Oct-18	Indicator pada SCADA traveling	Degraded Failure	Faktor cuaca (limit switch tergenang air dan berkarat)	35-HCV-1327	Limit Switch	Dilakukan pembersihan kontrol box dan perbaikan limit Switch	Running	1		CLOSE (OKTOBER 2018)	
029/FAILURE/TBB	DEG	Gedung DEG	2007	5-Nov-18	Abnormal instrument reading	Degraded Failure	Error pada temperature oli	DEG	sensor temperatur oli		Running			OPEN	
030/FAILURE/TBB	Lighting	Gedung Kontrol	2007	30-Nov-18	Lighting tidak berfungsi	Incipient Failure	Faktor usia lampu	Ruang ELektrikal	Lampu	Dilakukan penggantian lampu	Standby	1		CLOSE (NOVEMBER 2018)	
031/FAILURE/TBB	Lighting (Ballast)	Gedung kontrol	2007	30-Nov-18	Lighting tidak berfungsi	Incipient Failure	Faktor usia lampu	Ruang ELektrikal	Ballast	Dilakukan penggantian ballast	Standby	1		CLOSE (NOVEMBER 2018)	
032/FAILURE/TBB	Fire Hydrant Battery	Area Fire Hydrant	2015	11-Dec-18	Tegangan drop dari kondisi normal	Degraded Failure	Faktor usia	Area Fire Hydrant	Batteries	Dilakukan penambahan air battery	Standby	1		CLOSE (DESEMBER 2018)	
033/FAILURE/TBB	Handwheel Valve phase1	Red Zone	2015	11-Des-18	Cat pudar dan berkarat	Incipient Failure	Faktor cuaca	valve phase 1	Handwheel	Dilakukan pengecatan ulang	Standby	1		CLOSE (12 Januari 2019)	
034/FAILURE/TBB	Air conditioning system	Facility Office Room	2007	1-Jan-19	FTF (Failure to function on demand)	Degraded Failure	Faktor usia	Engine AC	Engine AC	Penggantian AC	Standby	1		CLOSE (10 JANUARI 2019)	
035/FAILURE/TBB	Gate to Red Zone	Yellow Zone	2007	13-Jan-19	Cat pudar	Incipient Failure	Faktor cuaca	Gate	Gate	Dilakukan pengecatan ulang	Standby	1		CLOSE (15 Januari 2019)	
036/FAILURE/TBB	Lighting (Ballast & light bulp)	Electrical Room	2007	11-Jan-19	Lighting tidak berfungsi	Incipient Failure	Faktor usia	Ruang ELektrikal	Ballast & Light bulp	Dilakukan penggantian ballast & Lampu	Standby	1		CLOSE (11 JANUARI 2019)	
037/FAILURE/TBB	Lighting (light bulp)	Lobby room	2007	11-Jan-19	Lighting tidak berfungsi	Incipient Failure	Faktor usia lampu	Ruang ELektrikal	Light bulp	Dilakukan penggantian Lampu	Standby	1		CLOSE (11 JANUARI 2019)	
038/FAILURE/TBB	Tower	Tower	2007	22-Jan-19	Aliran air tidak maksimal	Degraded Failure	Faktor Lingkungan	Tower	Tower	Pembersihan tower	Running	1,5		CLOSE (23 Januari 2019)	

No		Notes :
4	***	First time operation (Running Hours = 0)
7	*a)	Effect on equipment-unit function: critical, degraded, or incipient failure
		Critical Failure : A failure which causes immediate and complete loss of an equipment unit`s capability of providing its output
		Degraded Failure : A failure which is not critical, but it prevents an equipment unit from providing its output within specifications. Such a failure usually, but not necessarily, be gradual or partial, and may develop into a critical failure in time
		Incipient Failure : A failure which doesn`t immediately cause loss of a unit`s capability of providing its output, but which, if not attended to, could result in a critical or degraded failure in the near future
		Unknown : Failure severity was not recorded or could not be deduced
10	*b)	Running, Start-up, Testing, Idle, Standby
	**	Mandatory from ISO 14224 Point 9.5 Tabel 6
14	****	If data unavailable, determine the running hours since commissioning date
		Tambahan Failure dengan status closed

LAMPIRAN 17.2.T.14 FORM FAILURE RECORDING

Record No**	Asset Name	Tag No**	Commissioning Date***	Failure Date**	Failure Mode**	Failure impact on equipment function *(a) **	Failure Cause	Subunit failed	Component/ Maintainable item(s) failed	Maintenance Section	Operating condition at failure *(b)	Repair Time (Hours)	Running Hours at Failure (Hours)****	Status	Remarks
1	2	3	4	5	6	7	8	9	10	11	12	13	14		
001/FAILURE/BJN	H2S Analyzer Unit B	52-AT-1349B	12 Agustus 2010	22 Desember 2017	Munculnya alarm pada indikator H2S Analyzer B dan hasil pembacaan nilai H2S menjadi 25 ppmv, lebih dari range yang ditentukan yaitu 0 s/d 9 ppmv	Critical Failure	Indikasi kerusakan pada rangkaian sensor, sample system dan actuation part	Sensor, Sample System dan Actuation Part	Kit H2S/COS/MESH Wheel & Filter M993	Sudah dilakukan penggantian Cadmium Source Lamp dan Copper Source Lamp, namun alarm masih muncul	Idle	-	2544	OPEN	
007/FAILURE/BJN	GAS CHROMATOGRAPH UNIT A	52-AT-1347A	24 Agustus 2017	18 Desember 2017	Alarm RF Deviation, Hasil Validasi untuk komponen Nitrogen tidak pass ASTM 1945	Critical Failure	Standar kemurnian gas calibration yang diminta GC tinggi	Gas Calibration	Gas Calibration	Dilakukan switch gas calibration dari GC B ke GC A, namun hasil ada alarm RF deviation	Idle	-	1944	OPEN	
008/FAILURE/BJN	POWER SUPPLY LAMBDA METERING CABINET	52-PSU-A1	12 Agustus 2010	13 Juli 2018	Power Supply Trip	Critical Failure	Lifetime Power Supply	Power Supply	Power Supply	Dilakukan penggantian power supply lambda	idle	0.15	0.15	Closed (13 Juli 2018)	
009/FAILURE/BJN	Lighting Street	Area DEG Fasilitas	1 Juli 2007	29 Juli 2018	Loss Power	Degraded Failure	Power cable is broken	power cable	power cable	dilakukan penarikan jalur kabel listrik yang baru	idle	2	2	Closed (29 Juli 2018)	
010/FAILURE/BJN	Pompa Hydrant Unit A	52-P-4120A	18 Januari 2018	20 Juli 2018	Muncul Alarm battery drop	Critical Failure	Battery rusak	battery	battery	dilakukan penggantian battery	idle	-	231	OPEN	
011/FAILURE/BJN	Panel Smoke & Heat Detector	Area Control Building	1 Juli 2007	27 Juli 2018	Muncul alarm ground fault dan tampilan display pada panel board error	Critical Failure	panel board, power supply dan jalur kabel ground mengalami kerusakan	panel board, power supply dan jalur kabel ground	panel board, power supply dan jalur kabel ground	dilakukan penggantian panel board, power supply dan jalur kabel ground	running	-	96	OPEN	
012/FAILURE/BJN	Thermowell 52-TT-1310B	52-TT-1310B	12 Agustus 2010	15 Juli 2018	Kebocoran pada thermowell	Critical Failure	korosi / crack pada thermowell	thermowell	thermowell	dilakukan penggantian thermowell	running	-	384	OPEN	
013/FAILURE/BJN	PLC	PLC Metering	12 Agustus 2010	10-Nov-18	Data Stuck	Critical Failure	Logic Failure	Logic	Software	Dilakukan reset PLC dan setting ulang waktu PLC	idle	-	5	Closed (10 November 2018)	
014/FAILURE/BJN	Solenoid Valve DEG Fasilitas	-	12 Agustus 2010	14-Nov-18	Solenoid Always Open Position	Critical Failure	Kerusakan Solenoid dan Sensor Level Daily Tank	Solenoid dan Sensor Level Solar	Solenoid dan Sensor Level Solar fail	Penggantian sensor level daily tank DEG fasilitas dan setting ulang upper level	idle	-	36	Closed (15 November 2018)	
015/FAILURE/BJN	Limit Switch 52-BV-1377B dan 52-BV-1344	-	12 Agustus 2010	13-Nov-18	Blinking Indication	Limit Switch	Kerusakan Limit Switch	Sensor	Sensor	Penggantian Limit Swit Switch 52-BV-1377B dan 52-BV-1344	idle	-	30	Closed (14 November 2018)	
016/FAILURE/BJN	Panel FM 200	UPS Room	1 Juli 2007	4-Dec-18	Alarm PSU	Critical Failure	Battery Fail	Battery	Battery 12 V, 12 Ah	Penggantian Battery 12 V, 12 Ah	idle	2	2	Closed (4 Desember 2018)	

Record No**	Asset Name	Tag No**	Commissioning Date***	Failure Date**	Failure Mode**	Failure impact on equipment function *(a) **	Failure Cause	Subunit failed	Component/ Maintainable item(s) failed	Maintenance Section	Operating condition at failure *(b)	Repair Time (Hours)	Running Hours at Failure (Hours)****	Status	Remarks
017/FAILURE/BJN	Panel FM 200	IT Room	1 Juli 2007	4-Dec-18	Alarm PSU	Critical Failure	Battery Fail	Battery	Battery 12 V, 12 Ah	Penggantian Battery 12 V, 12 Ah	idle	2	2	Closed (4 Desember 2018)	
018/FAILURE/BJN	Panel Pompa DEG	DEG Facility	1 Juli 2007	10-Dec-18	Alarm Pump Fail & Sensor Fail	Critical Failure	Sensor upper dan lower mengalami kerusakan dan ada kontaktor pada panel pompa yang harus diganti	Sensor, Termination Cable	Sesor Level	Penggantian Sensor daily tank, penggantian terminasi kabel dan pemasangan PSU yang baru untu LT	Standby	5	5	Closed (10 Desember 2018)	
019/FAILURE/BJN	Decoder CCTV	MCS Building	12 Agustus 2010	3 Desember 2018	Terdapat beberapa CCTV yang tidak terbaca dan tidak dapat masuk kedalam decoder eksisting	Critical Failure	Decoder eksisting hanya ada 8 channel	Decoder DVR	Decoder DVR	Penggantian decoder 16 channel	Standby	2	2	Closed (3 Desember 2018)	
020/FAILURE/BJN	Limit Switch 52-HCV-1303	52-HCV-1303	12 Agustus 2010	10-Dec-18	Blinking Indication	Critical Failure	Kerusakan Limit Switch	Sensor	Sensor	Penggantian Limit Swit Switch 52-HCV-1303	idle	2	2	Closed (10 Desember 2018)	
021/FAILURE/BJN	Limit Switch 52-HCV-1302	52-HCV-1302	12 Agustus 2010	10-Dec-18	Blinking Indication	Critical Failure	Kerusakan Limit Switch	Sensor	Sensor	Penggantian Limit Swit Switch 52-HCV-1302	idle	2	2	Closed (10 Desember 2018)	
022/FAILURE/BJN	Jet Pump	Hydrant (Water Pond)	18 Januari 2018	2-Dec-18	Air pengisi water pond tidak keluar	Critical Failure	Kerusakan jet pump	check valve	check valve & suction pipe	Penggantian check valve & suction pipe	Idle	8	8	Closed (2 Desember 2018)	
023/FAILURE/BJN	Temperature Transmitter	52-TT-1307	1 Juli 2007	31 Desember 2018	Alarm Er-02	Critical Failure	Kerusakan RTD PT 100	RTD	PT 100	dilakukan penggantian sensor RTD PT 100	Idle	2	2	Closed (31 Desember 2018)	
024/FAILURE/BJN	Temperature Gauge	52-TI-1301 A	1 Juli 2007	31 Desember 2018	Kerusakan indikator	Critical Failure	kerusakan unit indikator	RTD	PT 100	dilakukan penggantian unit temperature indikator	Idle	2	2	Closed (31 Desember 2018)	
025/FAILURE/BJN	Temperature Gauge	52-TI-1303 A	1 Juli 2007	31 Desember 2018	Kerusakan indikator	Critical Failure	kerusakan unit indikator	RTD	PT 100	dilakukan penggantian unit temperature indikator	Idle	2	2	Closed (31 Desember 2018)	
008/FAILURE/MBK	Flow Transmitter Odorizer	81-FT- 1310	Juni 2007	5 Januari 2018	Display pada transmitter blank	Incipient Failure	Indikasi kersuakan pada display	Display panel	Display panel short	Sudah dilakukan pengecekan power dan looping test	Running	1	3869	Open	

Record No**	Asset Name	Tag No**	Commissioning Date***	Failure Date**	Failure Mode**	Failure impact on equipment function *(a)**	Failure Cause	Subunit failed	Component/ Maintainable item(s) failed	Maintenance Section	Operating condition at failure *(b)	Repair Time (Hours)	Running Hours at Failure (Hours)****	Status	Remarks
011/FAILURE/MBK	Fix Gas Detector	81-GD5-Scrubber	4-Nov-13	4 Februari 2018	Terdapat notifikasi alarm 66 (system fault) pada fix gas detector	Critical Failure	system fault	Display	sensor	zero calibration	running	1	37848	Closed (10 Maret 2018)	
012/FAILURE/MBK	WKS 01 RMJ	73-PT-1010	Juni 2007	5 Februari 2018	Nilai pressure stag pada scada	Incipient Failure	chanel pada modul Ai tidak mendapatkan input		modul	lah pada chanel spare pada m	running	72	38568	Closed (15 Maret 2018)	
013/FAILURE/MBK	GC A RMJ	81-AT-1352A	Juni 2007	18 Februari 2018	GHV out of range	Critical Failure	Alarm hight-hight unnormalize	sixport valve	membran valve	ggantian sixport membrant v	running	144	92292	Closed (21 Maret 2018)	
014/FAILURE/MBK	Check Valve 1"		1-Oct-17	8 Oktober 2017	k valve pada line compressor Atidak berfu	Incipient Failure	pin pada check valve patah	line kompresor A	compresor A	penggantian check valve	idle		168	open	
015/FAILURE/MBK	H2S PLN Analyzer Unit B	81-AT-1361 B	4-Nov-13	6/12/2018	embacaan nilai analyzer tidak sesuai (0 pp	Critical Failure	system fault	ensor, Sample Syste	Sensor Kit	ion sensor & purging sytem s	idle		40776	Closed (21 Juni 2018)	
016/FAILURE/MBK	Fix Gas Detector	81-GD3-Gas Filter	Juni 2007	7/10/2018	Lampu sensor mati	Critical Failure	indikasi pada koneksi kabel	Sensor	sensor	engencangan pada koneksi kab	idle	1	97056	Closed (10 Juli 2018)	
017/FAILURE/MBK	SDV PLN	81-SDV-1014	4-Nov-13	9/9/2017	leak pada actuator	Incipient Failure	kerusakan pada seal	cylinder actuator	seal actuator	penggantian seal & oli hydroli	running	48	38455	Closed 9/10/2017	
018/FAILURE/MBK	SDV PLN	81-SDV-1014	4-Nov-13	7/1/2018	Actuator mengalami kegagalan fungsi	Critical Failure		cylinder actuator			running	24	41335	Closed 9/10/2017	
019/FAILURE/MBK	PCV	81-PCV-1320A	4-Nov-13	12/31/2014	leak pada stem	Incipient Failure	kerusakan pada seal	actuator	packing seal	penggantian packing seal	running	48	10152	Closed 1/2/2015	
020/FAILURE/MBK	PCV	81-PCV-1320A	4-Nov-13	12/11/2017	leak pada stem	Incipient Failure	kerusakan pada seal	actuator	packing seal	penggantian packing seal	running	48	35496	Closed 15/11/2017	
021/FAILURE/MBK	PCV	81-PCV-1320B	Juni 2007		leak pada stem	Critical Failure	kerusakan pada seal			Overhaul	Standby	96	52488	Closed	
022/FAILURE/MBK	PCV	81-PCV-1330A	Juni 2007	14/12/2017	leak pada stem	Critical Failure	kerusakan pada seal			Overhaul	Standby	96	26254	Closed	
023/FAILURE/MBK	PCV	81-PCV-1330B	4-Nov-13	12/11/2017	leak pada stem	Incipient Failure	kerusakan pada seal	actuator	packing seal	penggantian packing seal	running	48	35496	Closed 15/11/2017	
024/FAILURE/MBK	PLC	81-PLC-A	Juni 2007	2/12/2017	Nilai pembacaan stag pada HMI	Critical Failure	crash pada software		Software	Re-Download	Standby	120	105120	Closed 9/12/2017	
025/FAILURE/MBK	PLC	81-PLC-B	Juni 2007	2/12/2017	Nilai pembacaan stag pada HMI	Critical Failure	crash pada software		Software	Re-Download	Standby	120	105120	Closed 9/12/2017	
026/FAILURE/MBK	PLC	81-PLC-C	4-Nov-13	27/11/2017	Nilai pembacaan stag pada HMI	Critical Failure	crash pada software		Software	odule analog input, module C	Standby	168	34875	Closed 4/12/2017	
027/FAILURE/MBK	PLC	81-PLC-D	4-Nov-13		Nilai pembacaan stag pada HMI	Critical Failure	crash pada software		Software	odule analog input, module C	Standby	168	34875	Closed 4/12/2017	
028/FAILURE/MBK	Pressure Trasnmitter	81-PT-1012A	4-Nov-13	30 Januari 2017	i short dikarenakan adanya air masuk ke t	Critical Failure	electrical short				Standby	24	34320	Closed 31/1/2017	
029/FAILURE/MBK	Pressure Trasnmitter	81-PT-1012B	4-Nov-13	30 Januari 2017	i short dikarenakan adanya air masuk ke t	Critical Failure	electrical short				Standby	24	34320	Closed 31/1/2017	
030/FAILURE/MBK	Air Compressor	81-E-2310A	4-Nov-13	5 Oktober 2017	Dilakukan overhaul pada tanggal	Critical Failure	Hight Temperature, frame leak				Standby	168	41520	Closed 12/10/2017	
031/FAILURE/MBK	Temprature Transmitter	81-TT-1350B	Juni 2007	1 Oktober 2014	Dilakukan penggantian	Critical Failure	da sensor temperatur dan display trasnmitter		Sensor & Module		Standby	24	59040	Closed 2/10/2014	
032/FAILURE/MBK	Gas Chromatogrophy	81-AT-1352A	Juni 2007	8 oktober 2016	Penggantian column	Critical Failure	analisa komposisi tidak valid		column	Penggantian column	Standby	72	74304	Closed 11/10/2016	
033/FAILURE/MBK	FlowComp	81-FC-1350A	Juni 2007	5 Januari 2016	Penggantian module power supply tangga	Critical Failure	Kerusakan [pada module power		modul power	penggantian module power	Standby	240	78120	Closed 15/1/2016	
034/FAILURE/MBK	Temprature Transmitter	81-TT-1360A	4-Nov-13	20 Juni 2016	Penggantian PT 100	Critical Failure	eruskan pada sensor temperatur		PT 100	Penggantian PT 100	Standby	120	13200	Closed 25/6/2016	
035/FAILURE/MBK	Gas Chromatogrophy	81-AT-1362A	4-Nov-13	3 maret 2015	Penggantian column	Critical Failure	analisa komposisi tidak valid		column	Penggantian column	Standby	72	485	Closed 7/3/2015	
036/FAILURE/MBK	Gas Chromatogrophy	81-AT-1362B	4-Nov-13	2 februari 2017	Penggantian column	Critical Failure	analisa komposisi tidak valid		column	Penggantian column	Standby	72	35180	Closed 5/2/2017	
037/FAILURE/MBK	Diesel Engine Generator	81-DEG-2210	Juni 2007	30 mei 2017	dilakukan overhaul	Critical Failure				Penggantian top end spare par	Standby	168	82440	Closed 6/6/2017	
038/FAILURE/MBK	Diesel Engine Generator	81-DEG-5020	4-Nov-13	30 mei 2017	dilakukan overhaul	Critical Failure				Penggantian top end spare par	Standby	168	42144	Closed 6/6/2017	
039/FAILURE/MBK	UPS	81-UPS-5010 A/B/C/D	Juni 2007	25 Oktober 2017	) A Penggantian card module inverter, rect	Critical Failure					Standby	96	86040	Closed 31/10/2017	
040/FAILURE/MBK	Deepwell A		4-Nov-13	22 Agustus 2018	Ketika dinyalakan, baik mode manual atau auto	Critical Failure	kontaktor mengalami intermitten (close dan open terus menerus) dan indicator overload aktif				idle		35389	Open	
041/FAILURE/MB	Level Transmitter	81-LT-2150 A	4-Nov-13	26 Oktober 2018	Tampilan display mati	Critical Failure	Modul power rusak	Modul sensor		Penggantian Level Transmitte	Standby		97008	Open	
042/FAILURE/MBK	H2S Anakyzer	81-AT-3160 A	4-Nov-13	29 Desember 2018	Analyzer tidak bisa running	Critical Failure	sequnce tidak berjalan otomatis setelah kalibrasi				Standby		98520	Open	
043/FAILURE/MBK	Fix Gas Detector	GD-15-14-1901	4-Nov-13	18 Januari 2019	Fault Alarm	Critical Failure				Penggantian Fix Gas Detector	Standby		6058	Open	

No	Notes :	
4	***	First time operation (Running Hours = 0)
7	*a)	Effect on equipment-unit function: critical, degraded, or incipient failure
		Critical Failure : A failure which causes immediate and complete loss of an equipment unit`s capability of providing its output
		Degraded Failure : A failure which is not critical, but it prevents an equipment unit from providing its output within specifications. Such a failure usually, but not necessarily, be gradual or partial, and may develop into a critical failure in time
		Incipient Failure : A failure which doesn`t immediately cause loss of a unit`s capability of providing its output, but which, if not attended to, could result in a critical or degraded failure in the near future
		Unknown : Failure severity was not recorded or could not be deduced
10	*b)	Running, Start-up, Testing, Idle, Standby
	**	Mandatory from ISO 14224 Point 9.5 Tabel 6
14	****	If data unavailable, determine the running hours since commissioning date
		Tambahan Failure dengan status closed

LAPORAN INSPEKSI DAN PEMELIHARAAN
PT PGAS SOLUTION, AREA TRANSMISI LAMPUNG
BULAN JANUARI TAHUN 2019

NO	NAMA ASET	JUMLAH ASET					TOTAL ASET	SATUAN	KETERANGAN
		Section 4 Belitang	Section 5 Terbanggi Besar	Section 6 Labuhan Maringgai	Stasiun Terbanggi Besar	Stasiun Labuhan Maringgai			
1	2	3	4	5	6	7	8	9	10
1	Right of Way	48,5	73,45	95,95			217,9	Km	
2	Aerial Marker	38	92	107			237	Unit	1. Section 4 a. Kondisi Baik 38 Unit b. Kondisi Rusak 0 Unit 2. Section 5 a. Kondisi Baik 92 Unit b. Kondisi Rusak 0 Unit 3. Section 6 a. Kondisi Baik 107 Unit b. Kondisi Rusak 0 Unit
3	KP Marker	28	34	77			139	Unit	1. Section 4 a. Kondisi Baik 28 Unit b. Kondisi Rusak 0 Unit 2. Section 5 a. Kondisi Baik 34 Unit b. Kondisi Rusak 0 Unit 3. Section 5 a. Kondisi Baik 77 Unit b. Kondisi Rusak 0 Unit
4	Sectional Valve	1	3	3			7	Unit	
5	Future Connection	2	3	4			9	Unit	
6	Warning Sign	203	215	414			832	Unit	1. Section 4 a. Kondisi Baik 203 Unit b. Kondisi Rusak 0 Unit 2. Section 5 a. Kondisi Baik 215 Unit b. Kondisi Rusak 0 Unit 3. Section 6 a. Kondisi Baik 414 Unit b. Kondisi Rusak 0 Unit
7	Boundary Marker	284	540	732			1556	Unit	1. Section 4 a. Kondisi Baik 284 Unit b. Kondisi Rusak 0 Unit 2. Section 5 a. Kondisi Baik 540 Unit b. Kondisi Rusak 0 Unit 3. Section 6 a. Kondisi Baik 732 Unit b. Kondisi Rusak 0 Unit
8	Sign Direction	9	18	56			83	Unit	1. Section 4 a. Kondisi Baik 9 Unit b. Kondisi Rusak 0 Unit 2. Section 5 a. Kondisi Baik 18 Unit b. Kondisi Rusak 0 Unit 3. Section 6 a. Kondisi Baik 56 Unit b. Kondisi Rusak 0 Unit
9	Class Location	4	8	15			27	Unit	1. Section 4 a. Kondisi Baik 4 Unit b. Kondisi Rusak 0 Unit 2. Section 5 a. Kondisi Baik 8 Unit b. Kondisi Rusak 0 Unit 3. Section 6 a. Kondisi Baik 15 Unit b. Kondisi Rusak 0 Unit
10	Portal	17	43	58			118	Lokasi	1. Section 4 a. Kondisi Baik 17 Lokasi b. Kondisi Rusak 0 Lokasi 2. Section 5 a. Kondisi Baik 43 Lokasi b. Kondisi Rusak 0 Lokasi 3. Section 6 a. Kondisi Baik 58 Lokasi b. Kondisi Rusak 0 Lokasi

11	Test Point	58	83	111			252	Unit	1. Section 4 a. Kondisi Baik 58 Unit b. Kondisi Rusak 0 Unit 2. Section 5 a. Kondisi Baik 83 Unit b. Kondisi Rusak 0 Unit 3. Section 6 a. Kondisi Baik 111 Unit b. Kondisi Rusak 0 Unit
12	Bounding Box	3	4	5			12	Unit	1. Section 4 a. Kondisi Baik 3 Unit b. Kondisi Rusak 0 Unit 2. Section 5 a. Kondisi Baik 4 Unit b. Kondisi Rusak 0 Unit 3. Section 6 a. Kondisi Baik 5 Unit b. Kondisi Rusak 0 Unit
13	Concrete Slab	17	11	45			73	Lokasi	1. Section 4 a. Kondisi Baik 17 Lokasi b. Kondisi Rusak 0 Lokasi 2. Section 5 a. Kondisi Baik 11 Lokasi b. Kondisi Rusak 0 Lokasi 3. Section 6 a. Kondisi Baik 45 Lokasi b. Kondisi Rusak 0 Lokasi
14	Prohibition	0	0	4			4		1. Section 6 a. Kondisi Baik 4 Lokasi b. Kondisi Rusak 0 Lokasi
15	Valve				185	257	442	Unit	
16	Pig Receiver				2	2	4	Phase	
17	Pig Launcher				2	2	4	Phase	
18	Slug Cathcer				2	2	4	Phase	
19	Pressure Indicator				16	18	34	Unit	
20	Temperature Indicator				3	2	5	Unit	
21	Level Glass				3	3	6	Unit	
22	Pig Signal				8	7	15	Unit	
23	Pressure Transmitter				11	20	31	Unit	
24	Temperature Transmitter				3	8	11	Unit	
25	Level Transmitter				3	3	6	Unit	
26	GEG				1	1	2	Unit	
27	DEG				1	1	2	Unit	
28	Rotary				1	1	2	Unit	
29	EVC				1	1	2	Unit	
30	Sump Tank				1	1	2	Unit	

Dibuat, Rekayasa Teknik Transmisi Area Lampung	Diperiksa, Jr. Engineer O&P Fasilitas Area Lampung	Diperiksa, Jr. Engineer O&P Jaringan Area Lampung	Disetujui, Pjs. Kepala Proyek Operasi Area Lampung	Diketahui, ART Transmisi Area Lampung
Riska Yulianti	Akhmad Afandi	Sanghiang Bikeu Hejang	Juvinus Sembiring	Eka Perkasa

LAPORAN INSPEKSI DAN PEMELIHARAAN
PT PGAS SOLUTION, AREA TRANSMISI JAWA BAGIAN BARAT
BULAN JANUARI TAHUN 2019

NO	NAMA ASET	JUMLAH ASET				TOTAL ASET	SATUAN	KETERANGAN
		BJN	MBK	OFFSHORE BJN	OFFSHORE MBK			
1	2	3	4	5	6	8	9	10
1	Right of Way							
2	Aerial Marker			2	3	5	Unit	1. Offshore MBK a. Kondisi Baik 3 Unit b. Kondisi Rusak 0 Unit 2. Offshore BJN a. Kondisi Baik 2 Unit b. Kondisi Rusak 0 Unit
3	Marker Post			6	22	28	Unit	1. Offshore MBK a. Kondisi Baik 22 Unit b. Kondisi Rusak 0 Unit 2. Offshore BJN a. Kondisi Baik 6 Unit b. Kondisi Rusak 0 Unit
3	Center Line			3	39	42	Unit	1. Offshore MBK a. Kondisi Baik 39 Unit b. Kondisi Rusak 0 Unit 2. Offshore BJN a. Kondisi Baik 3 Unit b. Kondisi Rusak 0 Unit
4	Sectional Valve				1	1	Unit	1. Offshore MBK a. Kondisi Baik 1 Unit b. Kondisi Rusak 0 Unit
5	Future Connection					0	Unit	
6	Warning Sign					0	Unit	
7	Boundary Marker			36	88	124	Unit	1. Offshore MBK a. Kondisi Baik 88 Unit b. Kondisi Rusak 0 Unit 2. Offshore BJN a. Kondisi Baik 36 Unit b. Kondisi Rusak 0 Unit
9	Class Location							
10	Portal							
11	Test Point							
12	Bounding Box							
13	Concrete Slab							
14	Prohibition							
15	Valve	285	136			421	Unit	
16	Pig Receiver	1	1			2	Phase	
17	Pig Launcher	1				1	Phase	
18	Slug Cathcer	1	1			2	Phase	
19	Pressure Indicator	39	4			43	Unit	
20	Temperature Indicator	9	38			47	Unit	
21	Level Glass	5				5	Unit	
22	Pig Signal	1				1	Unit	
23	Pressure Transmitter	28	38			66	Unit	
24	Temperature Transmitter	7	7			14	Unit	
25	Level Transmitter	5	3			8	Unit	
26	GEG							
27	DEG	2				2	Unit	
28	Rotary							
29	EVC							
30	Sump Tank	2	1			3	Unit	

Dibuat,	Diperiksa,	Diperiksa,	Disetujui,	Diketahui,
Rekayasa Teknik	Jr. Engineer Fasilitas	Engineer Jaringan	Kepala O&P	ART
Transmisi Area	Transmisi Area	Transmisi Area	Transmisi Area	Transmisi Area
Jawa Bagian Barat	Jawa Bagian Barat	Jawa Bagian Barat	Jawa Bagian Barat	Jawa Bagian Barat
Derry Fatrah Sudarjo	Purnawan Tirta Yuwana	Tauhid Safari	Dody Tusandy	Agung Kurniansyah

LAPORAN INSPEKSI DAN PEMELIHARAAN
PT PGAS SOLUTION, AREA TRANSMISI SUMATERA SELATAN
BULAN JANUARI TAHUN 2019

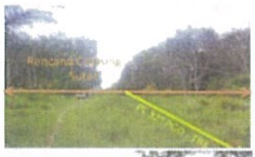
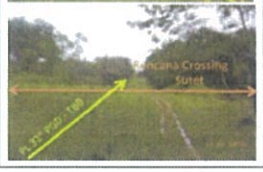
NO	NAMA ASET	JUMLAH ASET								TOTAL ASET	SATUAN	KETERANGAN
		Section 1	Section 2	Section 3	Stasiun Grissik	Stasiun Talangduku	SPG Pagardewa	Stasiun Metering Pagardewa	Stasiun Kompresor Pagardewa			
1	2	3	4	5	6				7	8	9	10
1	Right of Way	97.3	98.5	56.5	0	0	0	0	0	252.3	Km	
2	Aerial Marker	16	27	75	0	0	0	0	0	118	Unit	
3	KP Marker	19	26	45	0	0	0	0	0	90	Unit	
4	Sectional Valve	4	3	2	0	0	0	0	0	9	Unit	
5	Future Connection	1	0	1	0	0	0	0	0	2	Unit	
6	Warning Sign	126	141	256	0	0	0	0	0	523	Unit	
7	Boundary Marker	298	481	465	0	0	0	0	0	1244	Unit	
8	Sign Direction	0	4	6	0	0	0	0	0	10	Unit	
9	Class Location	0	9	0	0	0	0	0	0	9	Unit	
10	Portal	1	16	7	0	0	0	0	0	24	Unit	
11	Jembatan	1	41	96	0	0	0	0	0	138	Unit	
12	Box Culvert	4	16	14	0	0	0	0	0	34	Unit	
13	Turap	25	14	5	0	0	0	0	0	44	Unit	
14	Gorong-gorong	10	9	0	0	0	0	0	0	19	Unit	
15	Test Point	50	50	75	0	0	0	0	0	175	Unit	
16	Transformator Rectifier	1	1	2	0	0	0	0	0	4	Unit	
17	Ground Bed	1	1	1	0	0	0	0	0	3	Unit	
18	Valve	0	0	0	35	86	35	206	690	1052	Unit	
19	Pig Receiver	0	0	0	0	0	0	2	0	2	Unit	
20	Pig Launcher	0	0	0	1	0	1	2	0	4	Unit	
21	Slug Cathcer	0	0	0	0	0	0	1	0	1	Unit	
22	Pressure Indicator	0	0	0	4	12	4	24	45	89	Unit	
23	Temperature Indicator	0	0	0	1	4	1	7	20	33	Unit	
24	Level Glass	0	0	0	1	1	1	3	9	15	Unit	
25	Pig Signal	0	0	0	2	0	2	7	0	11	Unit	
26	Pressure Transmitter	0	0	0	4	10	4	16	59	93	Unit	
27	Temperature Transmitter	0	0	0	1	2	1	6	17	27	Unit	
28	Level Transmitter	0	0	0	0	0	0	2	13	15	Unit	
29	GEG	0	0	0	0	0	0	0	2	2	Unit	
30	DEG	0	0	0	1	1	1	1	1	5	Unit	
31	Meter turbine	0	0	0	0	3	0	0	3	6	Unit	
32	EVC	0	0	0	0	0	0	0	0	0	Unit	
33	Sump Tank	0	0	0	0	0	0	1	1	2	Unit	
34	Gas Turbine	0	0	0	0	0	0	0	3	3	Unit	
35	Gas Compressor	0	0	0	0	0	0	0	3	3	Unit	
36	Suction Scrubber	0	0	0	0	0	0	0	3	3	Unit	
37	Gas Aftercooler	0	0	0	0	0	0	0	3	3	Unit	

Dibuat Oleh,	Diperiksa, QC PGASSOL Fasilitas Area Transmisi Sumsel	Diperiksa, QC PGASSOL Jaringan Area Transmisi Sumsel	Diperiksa, QC PGASSOL Kompresor Area Transmisi Sumsel	Disetujui, Kepala O&P PGASSOL Area Sumsel	Diketahui, PGN ARM Zona Sumsel
Melisa Apriani	Rizki W Budiman	Firman Budiman	Genius NJ	Bunyamin	Santoso Priyo Pratomo

LAPORAN PENGAWASAN PIHAK KETIGA
AREA TRANSMISI SUMATERA SELATAN
BULAN JANUARI TAHUN 2019

NO	JENIS KEGIATAN	LOKASI KEGIATAN	PIHAK KETIGA	KONDISI JARINGAN / FASILITAS PIPA	DESKIRPSI KEGIATAN	DOKUMENTASI	KETERANGAN
1	2	3	4	5	6	7	8
STASIUN GRISSIK							
-	Tidak ada kegiatan pihak ketiga	-	-	-	-	-	-
STASIUN TALANGDUKU							
-	Tidak ada kegiatan pihak ketiga	-	-	-	-	-	-
STASIUN PENERIMA GAS PAGARDEWA							
-	Tidak ada kegiatan pihak ketiga	-	-	-	-	-	-
STASIUN METERING PAGARDEWA							
-	Tidak ada kegiatan pihak ketiga	-	-	-	-	-	-
STASIUN KOMPRESOR PAGARDEWA							
-	Tidak ada kegiatan pihak ketiga	-	-	-	-	-	-
SECTION 1							
-	Tidak ada kegiatan pihak ketiga	-	-	-	-	-	-
SECTION 2							
1	Pembuatan jalur rel kereta api untuk mengangkut batu bara	14+700	PT. Servo Marga Sejahtera	Jalur ROW PGD-GRS	Pembuatan jalur rel kereta api untuk mengangkut batu bara		Dilakukan koordinasi dan pengawasan tanggal 25 Januari 2019
2	Pengecoran Jalan SD Pagardewa	KP 00+600	Kepala Desa Pagardewa	Jalur ROW PGD-GRS	Pekerjaan perkerasan dan Pengecoran Jalan Dusun 4 Blok A ke Blok B Desa Pagardewa. Sebagian ROW sudah di cor oleh Desa ± 15 meter dengan lebar 4 m. Tepat diatas crown pipa dengan lebar 10 meter belum dilakukan pengecoran, dikarenakan menunggu perkuatan/pengecoran dari PGN.		Dilakukan koordinasi dan pengawasan tanggal 17 Januari 2019
3	Pembuatan jalan lintas kecamatan dari Desa Aur menuju Kota Muara Enim	KP 19+500	PUPR Muara Enim	Jalur ROW PGD-GRS	Crossing rencana pembuatan jalan lintas kecamatan dari desa Aur menuju kota Muara enim. Pada ROW PGN, di titik yang akan crosing sudah dilakukan perkerasan (Concrete Slabe). Update sampai tanggal 25 Januari 2019 aktivitas pihak ketiga tersebut sedang melakukan penghamparan batu pada jalan yang akan di buat dan sudah melewati ROW PGN, sedangkan tepat diatas ROW PGN belum dilakukan penghamparan batu.		Dilakukan koordinasi dan pengawasan tanggal 17 Januari 2019
4	Pembuatan jalan setapak	KP 72+050	Desa Penandingan	Jalur ROW PGD-GRS	Crossing jalan setapak (kendaraan roda 2 dan gerobak untuk mengangkut hasil panen kebun), jalan setapak berupa coran/concrete dengan lebar 2 meter dan tebal 0,15 meter.		Dilakukan koordinasi dan pengawasan tanggal 13 Januari 2019

LAPORAN PENGAWASAN PIHAK KETIGA
AREA TRANSMISI SUMATERA SELATAN
BULAN JANUARI TAHUN 2019

NO	JENIS KEGIATAN	LOKASI KEGIATAN	PIHAK KETIGA	KONDISI JARINGAN / FASILITAS PIPA	DESKIRPSI KEGIATAN	DOKUMENTASI	KETERANGAN
1	2	3	4	5	6	7	8
5	Pembuatan jalan titian cor beton	KP 84+600	Desa Danau baru	Jalur ROW PGD-GRS	Pekerjaan Pembangunan jalan titian cor beton / jalan setapak gantung dengan ketinggian ± 1,5 meter dari permukaan tanah untuk menuju lahan pertanian masyarakat Desa Danau Baru, Kecamatan Sungai rotan. Namun pekerjaan jalan tersebut belum mencapai ROW PGN. Menurut informasi Rencana kegiatan akan dilanjutkan pada bulan Maret 2019		Dilakukan koordinasi dan pengawasan tanggal 14 Januari 2019
6	Pembuatan jalan angkutan batu bara	KP 47 - KP 56	PT. Gemilang Artha Makmur	Jalur ROW PGD-GRS	Rencana pembuatan jalan untuk angkutan Batu Bara oleh PT. Gemilang Artha Makmur yang menggunakan ROW PGN di KP 47 - KP 56 PGD-GRS.		Dilakukan koordinasi dan pengawasan tanggal 25 Januari 2019
SECTION 3							
7	Pembuatan Jalur SUTET	KP 24+500	PT PLN	Jalur ROW PGD-TBB	Crossing instalasi jaringan kabel SUTET kapasitas tegangan 275 kV. Rencana pemasangan kabel semester 1 tahun 2019. Jarak tower SUTET ke ROW PGN sepanjang 25m.	 	Dilakukan koordinasi dan pengawasan tanggal 5 dan 21 Januari 2019

Dibuat Oleh,	Diperiksa, QC PGASSOL Fasilitas Area Transmisi Sumsel	Diperiksa, QC PGASSOL Kompresor Area Transmisi Sumsel	Diperiksa, QC PGASSOL Jaringan Area Transmisi Sumsel	Disetujui, PGASSOL Area Sumsel	Diketahui, PGN ARM Zona Sumsel
Melisa Apriani	Rizky W Budiman	Genius NJ	Firman Budiman	Bunyamin	Santoso Priyo Pratomo

LAPORAN PENGAWASAN PIHAK KETIGA
PT PGAS SOLUTION, AREA TRANSMISI JAWA BAGIAN BARAT
BULAN JANUARI TAHUN 2019

NO	JENIS KEGIATAN	LOKASI KEGIATAN	PIHAK KETIGA	KONDISI JARINGAN / FASILITAS PIPA	DESKIRPSI KEGIATAN	DOKUMENTASI	KETERANGAN
1	2	3	4	5	6	7	8
STASIUN BOJONEGARA							
	Tidak ada kegiatan pihak ke-3						
STASIUN MUARA BEKASI							
	Tidak ada kegiatan pihak ke-3						
OFFSHORE BOJONEGARA							
	Tidak ada kegiatan pihak ke-3						
OFFSHORE MUARA BEKASI							
	Tidak ada kegiatan pihak ke-3						

Dibuat,	Diperiksa,	Diperiksa,	Disetujui,	Diketahui,
Rekayasa Teknik	Jr. Engineer Fasilitas	Engineer Jaringan	Kepala O&P	ART
Transmisi Area	Transmisi Area	Transmisi Area	Transmisi Area	Transmisi Area
Jawa Bagian Barat	Jawa Bagian Barat	Jawa Bagian Barat	Jawa Bagian Barat	Jawa Bagian Barat
Derry Fatrah Sudarjo	Purnawan Tirta Yuwana	Tauhid Safari	Dody Tusandy	Agung Kurniansyah

LAPORAN PENGAWASAN PIHAK KETIGA
PT PGAS SOLUTION, AREA TRANSMISI LAMPUNG
BULAN JANUARI TAHUN 2019

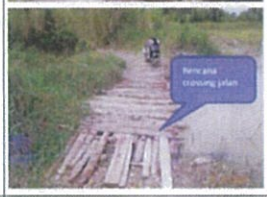
NO	JENIS KEGIATAN	LOKASI KEGIATAN	PIHAK KETIGA	KONDISI JARINGAN / FASILITAS PIPA	DESKIRPSI KEGIATAN	DOKUMENTASI	KETERANGAN
1	2	3	4	5	6	7	8
SECTION 4							
	Tidak ada kegiatan pihak ke-3						
SECTION 5							
	Tidak ada kegiatan pihak ke-3						
SECTION 6							
	Tidak ada kegiatan pihak ke-3						
STATION LABUHAN MARINGGAI							
	Tidak ada kegiatan pihak ke-3						
STATION TERBANGGI BESAR							
	Tidak ada kegiatan pihak ke-3						

Dibuat,	Diperiksa,	Diperiksa,	Disetujui,	Diketahui,
Rekayasa Teknik	Jr. Engineer O&P Fasilitas	Jr. Engineer O&P Jaringan	Pjs. Kepala Proyek Operasi	ART
Transmisi Area Lampung	Area Lampung	Area Lampung	Area Lampung	Transmisi Area Lampung
Riska Yulianti	Akhmad Afandi	Sanghiang Bikeu Hejang	Juvinus Sembiring	Eka Perkasa

LAPORAN PENGAWASAN PIHAK KETIGA
AREA TRANSMISI SUMATERA SELATAN
BULAN JANUARI TAHUN 2019

NO	JENIS KEGIATAN	LOKASI KEGIATAN	PIHAK KETIGA	KONDISI JARINGAN / FASILITAS PIPA	DESKIRPSI KEGIATAN	DOKUMENTASI	KETERANGAN
1	2	3	4	5	6	7	8
STASIUN GRISSIK							
-	Tidak ada kegiatan pihak ketiga	-	-	-	-	-	-
STASIUN TALANGDUKU							
-	Tidak ada kegiatan pihak ketiga	-	-	-	-	-	-
STASIUN PENERIMA GAS PAGARDEWA							
-	Tidak ada kegiatan pihak ketiga	-	-	-	-	-	-
STASIUN METERING PAGARDEWA							
-	Tidak ada kegiatan pihak ketiga	-	-	-	-	-	-
STASIUN KOMPRESOR PAGARDEWA							
-	Tidak ada kegiatan pihak ketiga	-	-	-	-	-	-
SECTION 1							
-	Tidak ada kegiatan pihak ketiga	-	-	-	-	-	-
SECTION 2							
1	Pembuatan jalur rel kereta api untuk mengangkut batu bara	14+700	PT. Servo Marga Sejahtera	Jalur ROW PGD-GRS	Pembuatan jalur rel kereta api untuk mengangkut batu bara		Dilakukan koordinasi dan pengawasan tanggal 25 Januari 2019
2	Pengecoran Jalan SD Pagardewa	KP 00+600	Kepala Desa Pagardewa	Jalur ROW PGD-GRS	Pekerjaan perkerasan dan Pengecoran Jalan Dusun 4 Blok A ke Blok B Desa Pagardewa. Sebagian ROW sudah di cor oleh Desa ± 15 meter dengan lebar 4 m. Tepat diatas crown pipa dengan lebar 10 meter belum dilakukan pengecoran, dikarenakan menunggu perkuatan/pengecoran dari PGN.		Dilakukan koordinasi dan pengawasan tanggal 17 Januari 2019
3	Pembuatan jalan lintas kecamatan dari Desa Aur menuju Kota Muara Enim	KP 19+500	PUPR Muara Enim	Jalur ROW PGD-GRS	Crossing rencana pembuatan jalan lintas kecamatan dari desa Aur menuju kota Muara enim. Pada ROW PGN, di titik yang akan crosing sudah dilakukan perkerasan (Concrete Slabe). Update sampai tanggal 25 Januari 2019 aktivitas pihak ketiga tersebut sedang melakukan penghamparan batu pada jalan yang akan di buat dan sudah melewati ROW PGN, sedangkan tepat diatas ROW PGN belum dilakukan penghamparan batu.		Dilakukan koordinasi dan pengawasan tanggal 17 Januari 2019
4	Pembuatan jalan setapak	KP 72+050	Desa Penandingan	Jalur ROW PGD-GRS	Crossing jalan setapak (kendaraan roda 2 dan gerobak untuk mengangkut hasil panen kebun), jalan setapak berupa coran/concrete dengan lebar 2 meter dan tebal 0,15 meter.		Dilakukan koordinasi dan pengawasan tanggal 13 Januari 2019

LAPORAN PENGAWASAN PIHAK KETIGA
AREA TRANSMISI SUMATERA SELATAN
BULAN JANUARI TAHUN 2019

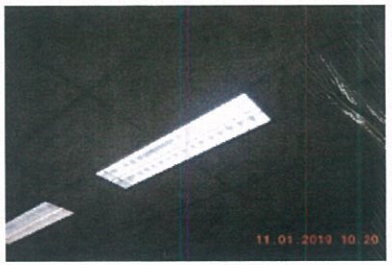
NO	JENIS KEGIATAN	LOKASI KEGIATAN	PIHAK KETIGA	KONDISI JARINGAN / FASILITAS PIPA	DESKIRPSI KEGIATAN	DOKUMENTASI	KETERANGAN
1	2	3	4	5	6	7	8
5	Pembuatan jalan titian cor beton	KP 84+600	Desa Danau baru	Jalur ROW PGD-GRS	Pekerjaan Pembangunan jalan titian cor beton / jalan setapak gantung dengan ketinggian ± 1,5 meter dari permukaan tanah untuk menuju lahan pertanian masyarakat Desa Danau Baru, Kecamatan Sungai rotan. Namun pekerjaan jalan tersebut belum mencapai ROW PGN. Menurut informasi Rencana kegiatan akan dilanjutkan pada bulan Maret 2019		Dilakukan koordinasi dan pengawasan tanggal 14 Januari 2019
6	Pembuatan jalan angkutan batu bara	KP 47 - KP 56	PT. Gemilang Artha Makmur	Jalur ROW PGD-GRS	Rencana pembuatan jalan untuk angkutan Batu Bara oleh PT. Gemilang Artha Makmur yang menggunakan ROW PGN di KP 47 - KP 56 PGD-GRS.		Dilakukan koordinasi dan pengawasan tanggal 25 Januari 2019
SECTION 3							
7	Pembuatan Jalur SUTET	KP 24+500	PT PLN	Jalur ROW PGD-TBB	Crossing instalasi jaringan kabel SUTET kapasitas tegangan 275 kV. Rencana pemasangan kabel semester 1 tahun 2019. Jarak tower SUTET ke ROW PGN sepanjang 25m.		Dilakukan koordinasi dan pengawasan tanggal 5 dan 21 Januari 2019

Dibuat Oleh,	Diperiksa, QC PGASSOL Fasilitas Area Transmisi Sumsel	Diperiksa, QC PGASSOL Kompresor Area Transmisi Sumsel	Diperiksa, QC PGASSOL Jaringan Area Transmisi Sumsel	Disetujui, PGASSOL Area Sumsel	Diketahui, PGN ARM Zona Sumsel
Melisa Apriani	Ricky W Budiman	Genius NJ	Firmze Budiman	Bunyamin	Santoso Priyo Pratomo

LAPORAN PENANGANAN GANGGUAN
PT PGAS SOLUTION, AREA TRANSMISI LAMPUNG
BULAN JANUARI TAHUN 2019

NO	RECORD NO	LOKASI FAILURE	NAMA ASET	DESKRIPSI FAILURE	PENYEBAB FAILURE	PERBAIKAN YANG DILAKUKAN	DOKUMENTASI	STATUS
1	2	3	4	5	6	7	8	9
SECTION 4								
1	005/FAILURE/SECT4	Section 4 Belitang	Pipa KP 74+030	Pipe Exposed Phase 1 dan Phase 2	Erosi pada waterway di Pipa Phase 1 dan 2	Penutupan Pipa Ekspos dengan cara dibuatkan tanggul dari susunan cement bag dan trucuk		Close 11 Januari 2019
SECTION 5								
	Tidak Ada Perbaikan yang dilakukan							
SECTION 6								
	Tidak Ada Perbaikan yang dilakukan							
STASIUN LABUHAN MARINGGAI								
1	092/FAILURE/LBM	Stasiun Labuhan Maringgai	Fire Alarm Panel FA-C-002	FTF (Failure to function on demand)	Kerusakan pada module interface No 004	Penggantian Module Interface Alarm untuk ruang office di Gedung komtrol (Zone 4)		Close 9 Januari 2019
2	081/FAILURE/LBM	Stasiun Labuhan Maringgai	37-GEG-5010	FTF (Failure to function on demand)	Time for Top Overhaul	Top Overhaul GEG		Close 25 Januari 2019

3	073/FAILURE/LBM	Stasiun Labuhan Maringgai	Arrester Data	FTF (Failure to function on demand)	Arrester power failed	Replace arrester power		Close 12 Januari 2019
4	074/FAILURE/LBM	Stasiun Labuhan Maringgai	Arrester Power	FTF (Failure to function on demand)	Arrester data failed	Replace arrester data		Close 12 Januari 2019
STASIUN TERBANGGI BESAR								
1	032/FAILURE/TBB	Stasiun Terbanggi Besar	Fire Hydrant Battery	Battery 1 pada engine fire hydrant 2 Tegangan drop dari kondisi normal (Teridentifikasi battery rusak)	Faktor usia	Dilakukan penggantian battery 1 pada engine fire hydrant 2		Close 1 Januari 2019
2	033/FAILURE/TBB	Stasiun Terbanggi Besar	Handwheel Valve phase1	Cat pudar dan berkarat	Faktor cuaca	Dilakukan pengecatan ulang		Close 12 Januari 2019
3	034/FAILURE/TBB	Stasiun Terbanggi Besar	Air conditioning system	FTF (Failure to function on demand)	Faktor usia	Penggantian AC di ruang Fasilitas Gedung Control		Close 10 Januari 2019

4	035/FAILURE/TBB	Stasiun Terbanggi Besar	Gate to Red Zone	Cat pudar	Faktor cuaca	Dilakukan pengecatan ulang Gerbang Red Zone		Close 15 Januari 2019
5	036/FAILURE/TBB	Stasiun Terbanggi Besar	Lighting (Ballast & light bulp)	Lighting di Ruang Electrical Gedung Control tidak berfungsi	Faktor usia	Dilakukan penggantian ballast & Lampu		Close 11 Januari 2019
6	037/FAILURE/TBB	Stasiun Terbanggi Besar	Lighting (light bulp) di Lobby dan Ruang Electrical	Lighting di Ruang Lobby (2 unit) dan Ruang Electrical Gedung Kontrol (2 Unit) tidak berfungsi	Faktor usia lampu	Dilakukan penggantian Lampu		Close 11 Januari 2019
7	038/FAILURE/TBB	Stasiun Terbanggi Besar	Tower	Aliran air tidak maksimal	Faktor Lingkungan	Pembersihan tower		Close 23 Januari 2019

Dibuat,	Diperiksa,	Diperiksa,	Disetujui,	Diketahui,
Rekayasa Teknik	Jr. Engineer O&P Fasilitas	Jr. Engineer O&P Jaringan	Pjs. Kepala Proyek Operasi	ART
Transmisi Area Lampung	Area Lampung	Area Lampung	Area Lampung	Transmisi Area Lampung
Riska Yulianti	Akhmad Afandi	Sanghiang Bikeu Hejang	Juvinus Sembiring	Eka Perkasa

LAPORAN PENANGANAN GANGGUAN
PT PGAS SOLUTION, AREA TRANSMISI JAWA BAGIAN BARAT
BULAN JANUARI TAHUN 2019

NO	RECORD NO	LOKASI FAILURE	NAMA ASET	DESKRIPSI FAILURE	PENYEBAB FAILURE	PERBAIKAN YANG DILAKUKAN	DOKUMENTASI	STATUS
1	2	3	4	5	6	7	8	9
SECTION 4								
3	026/FAILURE/BJN	BJN	Water Utility	Tidak tercapainya level high dan low air pada torrent	kerusakan sensor	dilakukan penggantian sensor level		Closed (14 Januari 2019)
4	027/FAILURE/BJN	BJN	H2S Analyzer Unit B	Nilai Hunting dan Alarm pembacaan H2S yang tidak valid	kerusakan sensor lampu Cd dan Cu	dilakukan penggantian part Cu dan Cd Lamp		Closed (16 Januari 2019)

Dibuat,	Diperiksa,	Diperiksa,	Disetujui,	Diketahui,
Rekayasa Teknik	Jr. Engineer Fasilitas	Engineer Jaringan	Kepala O&P	ART
Transmisi Area	Transmisi Area	Transmisi Area	Transmisi Area	Transmisi Area
Jawa Bagian Barat	Jawa Bagian Barat	Jawa Bagian Barat	Jawa Bagian Barat	Jawa Bagian Barat
Derry Fatrah Sudarjo	Purnawan Tirta Yuwana	Tauhid Safari	Dody Tusandy	Agung Kurniansyah

LAPORAN PENANGANAN GANGGUAN
PT PGAS SOLUTION, AREA TRANSMISI SUMATERA SELATAN
BULAN JANUARI TAHUN 2019

NO	RECORD NO	LOKASI FAILURE	NAMA ASET	DESKRIPSI FAILURE	PENYEBAB FAILURE	PERBAIKAN YANG DILAKUKAN	DOKUMENTASI	STATUS
1	2	3	4	5	6	7	8	9
STASIUN GRISSIK								
	Tidak ada gangguan yang menyebabkan keluhan pelanggan ataupun failure yang menyebabkan berhentinya penyaluran gas							
STASIUN TALANGDUKU								
	Tidak ada gangguan yang menyebabkan keluhan pelanggan ataupun failure yang menyebabkan berhentinya penyaluran gas							
STASIUN PENERIMA GAS PAGARDEWA								
	Tidak ada gangguan yang menyebabkan keluhan pelanggan ataupun failure yang menyebabkan berhentinya penyaluran gas							
STASIUN METERING PAGARDEWA								
	Tidak ada gangguan yang menyebabkan keluhan pelanggan ataupun failure yang menyebabkan berhentinya penyaluran gas							
STASIUN KOMPRESOR PAGARDEWA								
	Tidak ada gangguan yang menyebabkan keluhan pelanggan ataupun failure yang menyebabkan berhentinya penyaluran gas							
SECTION 1								
	Tidak ada gangguan yang menyebabkan keluhan pelanggan ataupun failure yang menyebabkan berhentinya penyaluran gas							
SECTION 2								
	Tidak ada gangguan yang menyebabkan keluhan pelanggan ataupun failure yang menyebabkan berhentinya penyaluran gas							
SECTION 3								
	Tidak ada gangguan yang menyebabkan keluhan pelanggan ataupun failure yang menyebabkan berhentinya penyaluran gas							

Dibuat, Adm. Rektek Area Transmisi Sumsel	Diperiksa, QC PGASSOL Fasilitas Area Transmisi Sumsel	Diperiksa, QC PGASSOL Jaringan Area Transmisi Sumsel	Diperiksa, QC PGASSOL Kompresor Area Transmisi Sumsel	Disetujui, Kepala O&P PGASSOL Area Sumsel	Diketahui, PGN ARM Zona Sumsel
Melisa Apriani	Rizki W Budiman	Firman Budiman	Genius NJ	Bunyamin	Santoso Priyo Pratomo

PENGELOLAAN INVENTORY

LOKASI : GUDANG TERBANGGI BESAR - LAMPUNG TENGAH

Jan-19

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JADWAL PEMELIHARAAN MATERIAL GUDANG TERBANGGI BESAR - LAMPUNG TENGAH

No.	Item Kegiatan Gudang			Periode Januari Tahun 2019																														
				Minggu Ke - I							Minggu Ke - II							Minggu Ke - III							Minggu Ke - IV									
	Jenis Kegiatan	Pic	Plan Actual	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
1	Pembersihan Gudang dan Lingkungan Sekitar	.....	Plan																															
2			Actual																															
3	Pembersihan Rak Material dan Pallet	.....	Plan																															
4			Actual																															
5	Perawatan Material	.....	Plan																															
6			Actual																															
7	Perawatan *Material Handling Equipment*	.....	Plan																															
8			Actual																															
9	Pengontrolan Stockyard	.....	Plan																															
10			Actual																															
11	Stock Opname Material	.....	Plan																															
12			Actual																															
13	Rekonsiliasi Pencatatan Internal	.....	Plan																															
14			Actual																															
15	Update Laporan Persediaan dan Gudang	.....	Plan																															
16			Actual																															
17	Bersama Melakukan K3 dan 5R	.....	Plan																															
18			Actual																															

Keterangan :

= Rencana kegiatan

= Pelaksanaan kegiatan

Lampung Tengah, 25 Januari 2019

Dibuat		Disetujui
YALUDDIN	ISHAK	ERWIN PERDANA R
Staff Gudang		Kepala Gudang TBB

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LAPORAN PEKERJAAN INVENTORY (MHE)
GUDANG TERBANGGI BESAR - LAMPUNG TENGAH
PERIODE JANUARI 2019

A. PENYIMPANAN

No.	Tanggal	Kegiatan	Penjelasan	Gambar atau Foto		Keterangan
1	20-Jan-19	Penyimpanan Material BUI	Baik	(1.1)	(1.2)	material Tertata rapi di atas rak
2	20-Jan-19	Penyimpanan Material BUI	Baik	(2.1)	(2.2)	material Tertata rapi di atas rak
3	20-Jan-19	Penyimpanan Material BUI	Baik	(3.1)	.....Diisi..... (3.2)	material Tertata rapi di atas rak
4	20-Jan-19	Penyimpanan Material BUI	Baik	(4.1)	(4.2)	material Tertata rapi di atas rak

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LAPORAN PEKERJAAN INVENTORY (MHE)
GUDANG TERBANGGI BESAR - LAMPUNG TENGAH
PERIODE JANUARI 2019

B. PERAWATAN

No.	Tanggal	Kegiatan	Penjelasan	Gambar atau Foto		Keterangan
1	3-Jan-19	perawatan material	Baik	(1.1)	(1.2)	perawatan material
2	6-Jan-19	perawatan material	Baik	(2.1)	(2.2)	perawatan material
3	9-Jan-19	perawatan material	Baik	(3.1)	.....Diisi..... (3.2)	perawatan material
4	12-Jan-19	perawatan material	Baik	(4.1)	(4.2)	perawatan material
5	18-Jan-19	perawatan material	Baik	(5.1)	(5.2)	perawatan material

LAPORAN PEKERJAAN INVENTORY (MHE)
GUDANG TERBANGGI BESAR - LAMPUNG TENGAH
PERIODE JANUARI 2019

6	21-Jan-19	perawatan material	Baik			perawatan material
				(6.1)	(6.2)	
7	24-Jan-19	perawatan material	Baik			perawatan material
				(7.1)	(7.2)	

LAPORAN PEKERJAAN INVENTORY (MHE)
GUDANG TERBANGGI BESAR - LAMPUNG TENGAH
PERIODE JANUARI 2019

C.PENATAAN

No.	Tanggal	Kegiatan	Penjelasan	Gambar atau Foto		Keterangan
1	8-Jan-18	Penataan Material	Baik	(1.1)	(1.2)	Penataan Material Setelah Renopasi Gudang
2	8-Jan-18	Penataan Material	Baik	(2.1)	.....Diisi..... (2.2)	Penataan Material Setelah Renopasi Gudang
3	6-Jan-18	Penataan	Baik	(3.1)	(3.2)	Penataaan box cor disamping gudang

LAPORAN PEKERJAAN INVENTORY (MHE)
GUDANG TERBANGGI BESAR - LAMPUNG TENGAH
PERIODE JANUARI 2019

D. *HANDLING*

No.	Tanggal	Kegiatan	Penjelasan	Gambar atau Foto		Keterangan
1	23/1/2019	Handling material	Baik			Pengeluaran battery GS
				(1.1)	(1.2)	

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LAPORAN PEKERJAAN INVENTORY (MHE)
GUDANG TERBANGGI BESAR - LAMPUNG TENGAH
PERIODE JANUARI 2019

E. *STOCK OPNAME*

No.	Tanggal	Kegiatan	Penjelasan	Gambar atau Foto		Keterangan
1	23-Jan-19	Stock opname material milik BUI	Baik	(1.1)	(1.2)	Material sudah sesuai dengan data laporan
2	24-Jan-19	Stock opname material milik BUI	Baik	(2.1)	(2.2)	Material sudah sesuai dengan data laporan

F. PENGAMANAN

No.	Tanggal	Kegiatan	Penjelasan	Gambar atau Foto		Keterangan
1	8-Dec-18	Pengamanan material milik BUI dan arsip vital perusahaan yang disimpan	Baik	(1.1)	(1.2)	Pengamanan Gudang pada jam istirahat

Lampung Tengah, 25 Januari 2019

Dibuat		Disetujui
Yaluddin	Ishak	Erwin Perdana R
Staff		Kepala Gudang TBB

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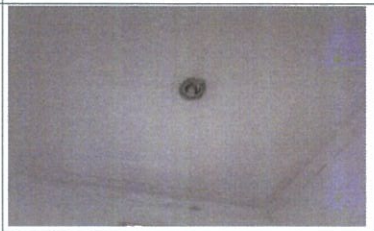
LAPORAN PEKERJAAN PEMELIHARAAN ASET PENUNJANG INFRASTRUKTUR
GUDANG TERBANGGI BESAR - LAMPUNG TENGAH
PERIODE JANUARI 2019

A. KONDISI GUDANG DAN FASILITAS PENUNJANG

No.	Tanggal	Kondisi Gudang	Penjelasan	Status	Gambar atau Foto		Tindak Lanjut
1	23-Jan-19	kawat Ram dan terdapat selah antara atap dan jalusi	terdapat selah pada bawah atap sehingga burung dapat masuk kedalam gudang dan burung tersebut merusak lapisan atap,mengotori lantai,rak,dan material gudang dan Kawat Ram yang sudah berkarat dan rapuh	**Open**	(1.1)	(1.2)	Belum di tindak lanjut
2	23-Jan-19	AC Ruang Material Bocor	AC Ruang Material cosumable dan persediaan bocor	Open	(2.1)	(2.2)	Belum di tindak lanjut
3	17-Dec-18	Lampu Toilet Mati	Lampu Toilet Gudang Mati/putus	Open	 (3.1)	(3.2)	sudah di tindak lanjut dengan melakukan pergantian lampu
4	23-Jan-19	Kerangka gudang berkarat	Kerangka gudang sudah berkarat	Open	(4.1)	(4.2)	Belum di tindak lanjut

LAPORAN PEKERJAAN PEMELIHARAAN ASET PENUNJANG INFRASTRUKTUR
GUDANG TERBANGGI BESAR - LAMPUNG TENGAH
PERIODE JANUARI 2019

B. PERAWATAN MATERIAL

No.	Tanggal	Kegiatan	Kondisi Material	Gambar atau Foto		Keterangan
1	3-Jan-19	perawatan material	Baik	(1.1)	(1.2)	perawatan material
2	6-Jan-19	perawatan material	Baik	(2.1)	(2.2)	perawatan material
3	9-Jan-19	perawatan material	....Diisi....	(3.1)	.....Diisi..... (3.2)	perawatan material
4	12-Jan-19	perawatan material	Baik	(4.1)	(4.2)	perawatan material

	18-Jan-19	perawatan material	Baik	(5.1)	(5.2)	perawatan material
	21-Jan-19	perawatan material	Baik	(6.1)	(6.2)	
	24-Jan-19	perawatan material	Baik	(7.1)	(7.2)	perawatan material

C. PERAWATAN MATERIAL HANDLING EQUIPMENT

No.	Tanggal	Kegiatan	Kondisi Material	Gambar atau Foto		Keterangan
1	04-Jan-19	Perawatan Handklift	Baik	(1.1)	(1.2)	Perawatan material handling, dan uji fungsi
2	11-Jan-19	Perawatan Handklift	Baik	(2.1)	(2.2)	Perawatan material handling, dan uji fungsi
3	17/4/2019	Perawatan Handklift	Baik	(3.1)	(3.2)	Perawatan material handling, dan uji fungsi
4	23-Jan-19	Perawatan Handklift	Baik	(4.1)	(4.2)	Perawatan material handling, dan uji fungsi

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LAPORAN PEKERJAAN PEMELIHARAAN ASET PENUNJANG INFRASTRUKTUR
GUDANG TERBANGGI BESAR - LAMPUNG TENGAH
PERIODE JANUARI 2019

D. PERHITUNGAN & PENGECEKAN FISIK (*STOCK OPNAME*) BERKALA

No.	Tanggal	Nama Material	Spesifikasi	Saldo Awal	Saldo Akhir	Satuan	Selisih	Posisi	Remark	Kondisi Material
A. MATERIAL INVESTASI (MI)										
1										
2										
3										
4										
5										
B. *MAINTENANCE, REPAIR, OPERATION* (MRO)										
1	23/01/2019	Frame Seal Kit	Merk CAMERON, PN: 9E-RRR0061000600	1,00	1,00	Ea				Baik
2	23/01/2019	Cylinder Seal Kit	Merk CAMERON, PN: 9E-RRR0CH1617000	1,00	1,00	Ea				Baik
3	23/01/2019	Pump Seal Kit	Merk CAMERON, PN: 9E-RRR0070570400	1,00	1,00	Ea				Baik
4	23/01/2019	Filter Catridge Complete	Merk CAMERON, PN: 9E-RRR0070065101	1,00	1,00	Ea				Baik
5	23/01/2019	Frame Seal Kit	Merk CAMERON, PN: 9E-RRR0061000700	1,00	1,00	Ea				Baik
6	23/01/2019	Cylinder Seal Kit	Merk CAMERON, PN: 9E-RRR0003902300	1,00	1,00	Ea				Baik
7	23/01/2019	Pump Seal Kit	Merk CAMERON, PN: 9E-RRR0070570400	1,00	1,00	Ea				Baik
8	23/01/2019	Filter Catridge Complete	Merk CAMERON, PN:9E-RRR0070151701	1,00	1,00	Ea				Baik
9	23/01/2019	Actuator Stem o-Ring	DASH#331, ECO 15655, Rubber, Buna-N, 70 Durometer, 8 year shelf life; Purchase and receive per SPP 218 (ECO 14403); Old # 10003296 ,PN '001718.650.000 Merk : Flowserve	2,00	2,00	Pcs				Baik
10	23/01/2019	Pressure gauge	MEX5-D61H30 , Merk Baumer	1,00	1,00	Unit				Baik
11	23/01/2019	Thermometer	TBI-160 261 147.02U Gas Detector , Merk Baumer	1,00	1,00	Unit				Baik
12	23/01/2019	O-Ring	Dash #459, ECO 15655, Rubber, Buna-N, 70 Durometer, 8 year shelf life : Purchase and receive per SPP 218 (ECO 14403);Old #10003275 PN, 001716.650.000 Merk Flowserve	4,00	4,00	Pcs				Baik
13	23/01/2019	O-Ring	Dash #223, ECO 15655, Rubber, Buna-N, 70 Durometer, 8 year shelf life : Purchase and receive per SPP 218 (ECO 14403);Old #10011369 , PN '005494.650.000 Merk Flowserve	2,00	2,00	Unit				Baik
14	23/01/2019	Guide Liner	3.00 STEM, PTFE, Plastic, PTFE, Glassfield 25% , Indefinite Shelf Life : Purchase and receive per SPP 218 (ECO 14403); Old #10020551 SN 020684.927.000 Merk Floewserve	3,00	3,00	Unit				Baik
15	23/01/2019	Gasket	Flat Metal, 1.19 x 0.66, 0.06 THICK, AN960D1016, Aluminium, Washer, H-52 5052 (Revised 15 Jan 97); Old #10003771 PN 001824.606.000 Merk Flowserve	12,00	12,00	Unit				Baik
16	23/01/2019	Gasket	Non Metallic, 9.50 OD, 5.38 ID, 0.06 THICK, 6 HOLES, 0.75 DIA, 8.00 B.C., Rubber, Neoprone, Cork (Mil Std C-6 183A, Type 1, Class 2) 8 Year shelf life: Purchase and Receive per SPP 218 (ECO 14403); Old #10038451 PN '049671.813.000 Merk Flowserve	2,00	2,00	Pcs				Baik
17	23/01/2019	Packing Set	Twin Vee, 3.00 STEM, Plastic, PTFE, Virgin, Indefinite Shelf Life : Purchase and Receive per SPP 218 (ECO 14403); Old #10024298 PN '020765.925.000, Merk Flowserve	2,00	2,00	Unit				Baik
18	23/01/2019	Valve, Normally Closed	LOCKUP, HUMPHREY 250-3-10-20, Mtl Code N/A: See Drawing, P.P., or BofM Asembly (rev'd per ECO 13949); Old #10007383 PN 002774.999.000 Merk Flowserve	3,00	3,00	Unit				Baik
19	23/01/2019	Gasket	GASKET, PTFE, 19.75x18.75, 0.15 Thick, Plastic, PTFE, Virgin, Indefinite shelf life PN '052297.925.000 Merk Flowserve	2,00	2,00	Pcs				Baik
20	23/01/2019	O-ring	O-RING,...., DASH#461, Rubber Buna-N, 90 Durometer, 8 year shelf life PN 75351.C2M.000 Merk Flowserve	3,00	3,00	Pcs				Baik
21	23/01/2019	Back Up Ring	BACK UP RING, 16.18 OD, DASH#461, Stretched, Plastic, PTFE, Carbon and Graphite Filled 25% , Indefinite shelf life PN 190128.791.000 Merk Flowserve	4,00	4,00	Pcs				Baik
22	23/01/2019	Bellows	BELLOWS, STEM, SIZE 100/200, 8 STROKE, Rubber, Neoprene, 8 years shelf life , PN 015548.652.000 Merk Flowserve	2,00	2,00	Pcs				Baik
23	23/01/2019	Gasket	GASKET, NONMETALLIC, 3.00x2.50, 0.03 Thick, Plastic PTFE, Virgin, Indefinite shelf life PN 001886.925.000 Merk Flowserve	4,00	4,00	Pcs				Baik
24	23/01/2019	Filter Regulator	B73G-2AK-AD3-RMN, AUTOMATIC DRAIN, 1/4 NPT, 5-150 PSIG, 40MICRON FILTER ELEMENT, PN SIN401599 Merk Norgren	2,00	2,00	Pcs				Baik
25	23/01/2019	Valve 3-Way	1/4 NPT-F, TYPE L, 700-4F4F4F-B SPECIALTY 3420590, Brass, B-16-HO2, UNS C36000 Half hard , PN 34747402000 Merk Flowserve	4,00	4,00	Pcs				Baik
26	23/01/2019	Pressure Gauge	P Series, Dial Glycerin Filled, 1/2 MNPT, Adjustable Pointer, 0-1500 psi (kPa as secondary scale) Range, Thermo - plastic ,4 1/2" ,PN PGI-115P-OG1500-LAP1-J Merk Swagelok	1,00	1,00	Pcs				Baik
27	23/01/2019	Dehydrator Filter Seal Kit Cartridge Gr.500	9E-RRR0000095101	1,00	1,00	Pcs				Baik
28	23/01/2019	Double Valve Seal Kit	9E-RRR0000335500	1,00	1,00	Pcs				Baik
29	23/01/2019	Dehydrator Filter Seal Kit	9E-RRR0000151700	1,00	1,00	Pcs				Baik
30	23/01/2019	Manual Pump	9E-2KQ0292N00310	3,00	3,00	Pcs				Baik
31	23/01/2019	Hydroulic Cyclinder Seal Kit HT 200-1-160	9E-RRR0062011900	2,00	2,00	Pcs				Baik
32	23/01/2019	Hydroulic Cyclinder Seal Kit HT 235-1/200	9E-RRR0002169300	1,00	1,00	Pcs				Baik
33	23/01/2019	Dehydrator Filter Seal Kit Cartridge	9E-RRR0000095101	1,00	1,00	Pcs				Baik
34	23/01/2019	Manual Lever	9E-3G092L0000E8A	1,00	1,00	Pcs				Baik
35	23/01/2019	Double Valve Seal Kit	9E-RRR0001946400	2,00	2,00	Pcs				Baik
36	23/01/2019	PED Hydraulic Cyclinder Seal Kit	9E-RRR0CH2016001	1,00	1,00	Pcs				Baik
37	23/01/2019	Piston Steam O-Ring	DASH#024, ECO 15655, Rubber, Buna-N, 70 Durometer, 8 year shelf life; Purchase and receive per SPP 218 (ECO 14403); Old # 10001669 PN 001312.650.000 Merk Flowserve	2,00	2,00	Pcs				Baik
38	23/01/2019	Inner Coating	Inner Coating Wrappingband CZH , 200mm x 10m Length ,PN 6130 Merk Stopaq	7,00	7,00	Roll				Baik
39	23/01/2019	Outer Coating	Outer Coating wrap PVC , 100mm x 30m, PN 1125 Merk Stopaq	-	-	Roll	-			Baik
40	23/01/2019	Outerglass Sheld	Outerglass Sheld XT size , 200mm x 20m, PN 1413 Merk Stopaq	27,00	27,00	Roll				Baik

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LAPORAN PEKERJAAN PEMELIHARAAN ASET PENUNJANG INFRASTRUKTUR
GUDANG TERBANGGI BESAR - LAMPUNG TENGAH
PERIODE JANUARI 2019

C. *MAINTENANCE, REPAIR, OPERATION* - ASET BELUM TERPASANG (MRO - ABT)

1	24/01/2019	Solenoid Valve Complete	Actuator Mod. MT 235-1/200 GH, Tag No. 35-HCV-1020	1,00	1,00	Unit				Baik
2	24/01/2019	RMG Rotary Meter	Type : DKZ04, Size : DN50, Flow rate (nominal) : 65m3/h, flow rate (maximum) : 100 m3/h, pressure range : 16 bar, temperatur : -20 to	1,00	1,00	Pcs				Baik
3	24/01/2019	Temperature Transmitter	3144PD1A1E5B4M5Q4	1,00	1,00	Pcs				Baik
4	24/01/2019	Differential Transmitter	2051CD3A02A1AH2B1E5L4M5DFT1Q4Q8	1,00	1,00	Pcs				Baik
5	24/01/2019	Dehydrator Filter + Seal Kit	PN 9E-2G60802N00100, Merk Cameron	1,00	1,00	Set				Baik
6	24/01/2019	Microswitch Housing Westlock	PN 9E-81M08W030P0N0, Merk Cameron	1,00	1,00	Ea				Baik
7	24/01/2019	Solenoid Valve Seal Kit	PN 9E-RRR0001541700, Merk Cameron	1,00	1,00	Ea				Baik
8	24/01/2019	Dehydrator Filter + Filter	PN 9E-2G60502N00000, Merk Cameron	1,00	1,00	Ea				Baik
9	24/01/2019	Dehydrator Filter	PN 9E-2G60502N00000, Merk Cameron	1,00	1,00	Ea				Baik
10	24/01/2019	Double Valve	PN 9E-2T60601S00610, Merk Cameron	1,00	1,00	Ea				Baik
11	24/01/2019	Pressure Regulator Complete	Actuator Mod. MT 174-1/160 GH, Tag No. 37-SDV-1023/35 - SDV-1023, PN 9E-88603F002Q0N0 ,Merk Cameron	1,00	1,00	Unit				Baik
12	24/01/2019	Pressure Regulator Complete	Actuator Mod. MT 235-1/200 GH, Tag No. 35-HCV-1020, PN 9E-2PC702N00010 , Merk Cameron	1,00	1,00	Unit				Baik
13	24/01/2019	Packing Spacer LUB	3,00 STEM 2.00L PN 020915.150.000 ,Merk Flowserve	1,00	1,00	Pcs				Baik
14	24/01/2019	Packing Spacer	3,00 STEM 0.5L ,PN 020918.150.000 Merk Flowserve	1,00	1,00	Pcs				Baik
15	24/01/2019	Packing Spacer	3,00 STEM 3L, PN 004949.150.000 Merk Flowserve	2,00	2,00	Pcs				Baik
16	24/01/2019	CS Reinforcement Kit, INT	Ø 32" PN CS-121-32	1,00	1,00	Unit	-			Baik
17	24/01/2019	Clock Spring International	Ø 32" PN CS-121-33	2,00	2,00	Unit	-			Baik
18	24/01/2019	Gasket	GASKET, PTFE, 18.00x17.00, 0.15 Thick, plastic, PTFE, Virgin, Indefinite shell life, PN 020705.925.000 Merk Flowserve	1,00	1,00	Pcs				Baik
19	24/01/2019	Gasket	GASKET, PTFE, 18.00x17.00, 0.15 Thick, plastic, PTFE, Virgin, Indefinite shell life, PN 020705.925.000 Merk Flowserve	1,00	1,00	Pcs				Baik
20	24/01/2019	Gasket	GASKET, PTFE, 18.00x22.00.00, 0.15 Thick, plastic, PTFE, Virgin, Indefinite shelf life ,PN 025365.925.000 Merk Flowserve	1,00	1,00	Pcs				Baik
21	24/01/2019	Gasket	GASKET, PTFE, 18.00x22.00.00, 0.15 Thick, plastic, PTFE, Virgin, Indefinite shelf life ,PN 025365.925.000 Merk Flowserve	1,00	1,00	Pcs				Baik
22	24/01/2019	Repair Clamp	32",OD 821mm = 813+8mm; 32" OD Pipe with total 4mm for Three-layer-Coating x 2sides at top and bottom x 8" seal width x VITON	1,00	1,00	Pcs				Baik
23	24/01/2019	Notifier NFS 640	Brand : Notifier, Primary input power CPU2-640E board 220/240 VAC, 50/60 Hz, 2.5 A, Total output : 24 V power; 6.0 A in alarm	1,00	1,00	Set				Baik
24										

Lampiran :
1. Jadwal Pemeliharaan Material dan Laporan *Material Handling Equipment*

Lampung Tengah, 25 Januari 2019

Dibuat		Disetujui
YALUDDIN	ISHAK	ERWIN PERDANA R
Staff		Kepala Gudang TBB

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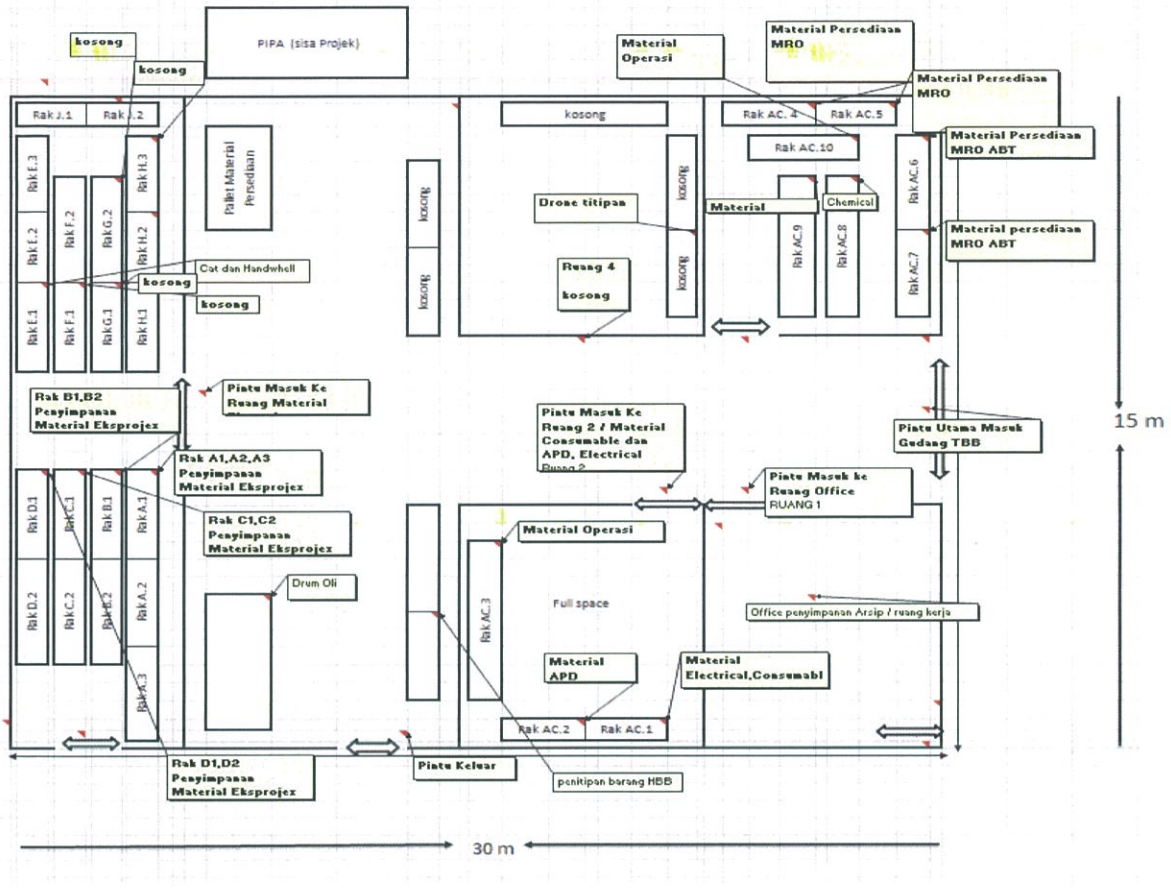
LAPORAN KAPASITAS TERSEDIA
GUDANG TERBANGGI BESAR - LAMPUNG TENGAH
PERIODE JANUARI 2019



GUDANG TERBANGGI BESAR - LAMPUNG TENGAH
PERIODE : JANUARI 2019

Lampung Tengah, 25 Januari 2019

Dibuat		Disetujui
Yaluddin	Ishak	Erwin Perdana R
Staff		Kepala Gudang TBB

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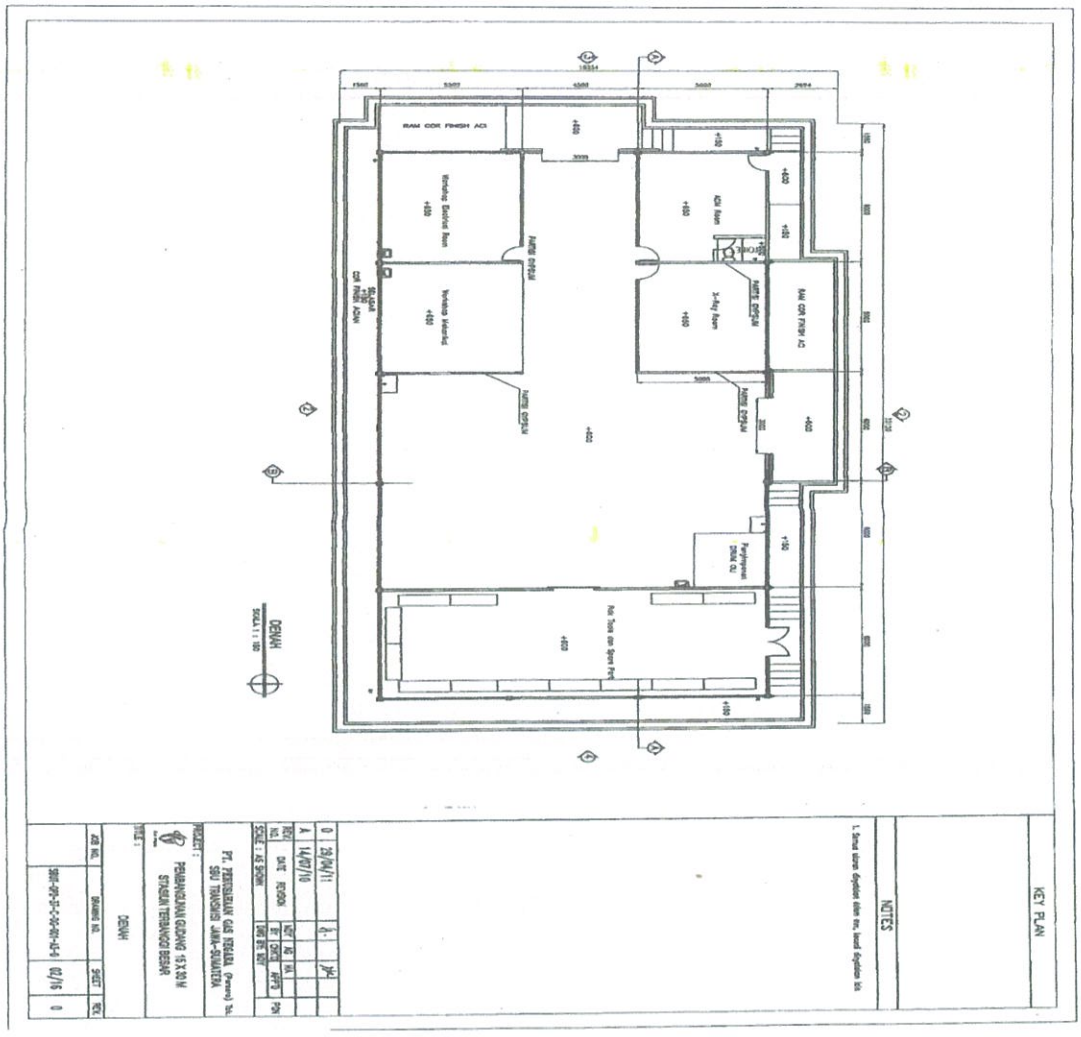
LAYOUT GUDANG TERBANGGI BESAR - LAMPUNG TENGAH
PERIODE : JANUARI 2019



PENGELOLAAN INVENTORY

LOKASI : GUDANG PAGARDEWA KABUPATEN MUARA ENIM PROVINSI SUMATERA SELATAN
BULAN DESEMBER 2018
PERIODE 26 NOVEMBER s/d 25 DESEMBER 2018

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JADWAL PEMELIHARAAN MATERIAL GUDANG PAGARDEWA
BULAN DESEMBER 2018

No.	Item Kegiatan Gudang			Periode 26 November 2018 s.d 25 Desember 2018																													
				Minggu Ke - I						Minggu Ke - II							Minggu Ke - III							Minggu Ke - IV									
				Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue
	Jenis Kegiatan	Pic	Plan Actual	26	27	28	29	30	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
1	Pembersihan Gudang dan Lingkungan Sekitar	Rian/Fajar	Plan																														
2			Actual																														
3	Pembersihan Rak Material dan Pallet	Rian/Fajar	Plan																														
4			Actual																														
5	Perawatan Material	Rian/Fajar	Plan																														
6			Actual																														
7	Perawatan *Material Handling Equipment*	Rian/Fajar	Plan																														
8			Actual																														
9	Pengontrolan Stockyard	Rian/Fajar	Plan	Tidak ada Material Stockyard di Gudang Pagardewa																													
10			Actual																														
11	Stock Opname Material	Rian/Fajar	Plan																														
12			Actual																														
13	Rekonsiliasi Pencatatan Internal	Rian/Fajar	Plan																														
14			Actual																														
15	Update Laporan Persediaan dan Gudang	Rian/Fajar	Plan																														
16			Actual																														
17	Bersama Melakukan K3 dan 5R	Rian/Fajar	Plan																														
18			Actual																														

Keterangan :

= Rencana kegiatan
= Pelaksanaan kegiatan

Pagardewa, 26 November 2018

Dibuat oleh	Disetujui oleh
M.Fajar Rizki / Rian Farnedy	Lukman Ferdiyanto

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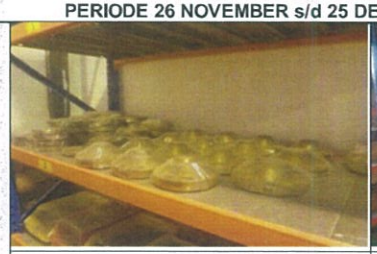
LAPORAN PEKERJAAN INVENTORY (MHE)
GUDANG PAGARDEWA KABUPATEN MUARA ENIM PROVINSI SUMATERA SELATAN
BULAN DESEMBER 2018
PERIODE 26 NOVEMBER s/d 25 DESEMBER 2018

A. PENYIMPANAN

No.	Tanggal	Kegiatan	Penjelasan	Gambar atau Foto		Keterangan
1	27-Nov-18	Penyimpanan Material BUI	Baik	(1.1)	(1.2)	Material tertata dengan rapih
2	4-Dec-18	Penyimpanan Material BUI	Baik	(2.1)	(2.2)	Material tertata dengan rapih
3	11-Dec-18	Penyimpanan Material BUI	Baik	(3.1)	(3.2)	Material tertata dengan rapih
4	18-Dec-18	Penyimpanan Material BUI	Baik	(4.1)	(4.2)	Material tertata dengan rapih

LAPORAN PEKERJAAN INVENTORY (MHE)
GUDANG PAGARDEWA KABUPATEN MUARA ENIM PROVINSI SUMATERA SELATAN
BULAN DESEMBER 2018
PERIODE 26 NOVEMBER s/d 25 DESEMBER 2018

4	25-Dec-18	Penyimpanan Material BUI	Baik	 (4.1)	(4.2)	Material tertata dengan rapih

B. PERAWATAN

No.	Tanggal	Kegiatan	Penjelasan	Gambar atau Foto		Keterangan
1	28-Nov-18	Perawatan tempat penyimpanan material milik BUI	Baik	(1.1)	(1.2)	Pembersihan rak material agar tidak berdebu
2	1-Dec-18	Perawatan tempat penyimpanan material milik BUI	Baik	(2.1)	(2.2)	Pembersihan rak material agar tidak berdebu
3	5-Dec-18	Perawatan tempat penyimpanan material milik BUI	Baik	(3.1)	(3.2)	Pembersihan rak material agar tidak berdebu

LAPORAN PEKERJAAN INVENTORY (MHE)
GUDANG PAGARDEWA KABUPATEN MUARA ENIM PROVINSI SUMATERA SELATAN
BULAN DESEMBER 2018
PERIODE 26 NOVEMBER s/d 25 DESEMBER 2018

4	8-Dec-18	Perawatan tempat penyimpanan material milik BUI	Baik	(4.1)	(4.2)	Pembersihan rak material agar tidak berdebu
5	12-Dec-18	Perawatan tempat penyimpanan material milik BUI		(5.1)	(5.2)	Pembersihan rak material agar tidak berdebu
6	15-Dec-18	Perawatan tempat penyimpanan material milik BUI		(6.1)	(6.2)	Pembersihan rak material agar tidak berdebu
7	19-Dec-18	Perawatan tempat penyimpanan material milik BUI		(7.1)	(7.2)	Pembersihan rak material agar tidak berdebu
8	22-Dec-18	Perawatan tempat penyimpanan material milik BUI		(8.1)	(8.2)	Pembersihan rak material agar tidak berdebu

LAPORAN PEKERJAAN INVENTORY (MHE)
GUDANG PAGARDEWA KABUPATEN MUARA ENIM PROVINSI SUMATERA SELATAN
BULAN DESEMBER 2018
PERIODE 26 NOVEMBER s/d 25 DESEMBER 2018

C.PENATAAN

No.	Tanggal	Kegiatan	Penjelasan	Gambar atau Foto		Keterangan
1	9-Dec-18	Penataan material milik BUI	Baik			Material ditata agar terlihat rapih dan memudahkan saat mencari barang
				(1.1)	(1.2)	

D. ***HANDLING***

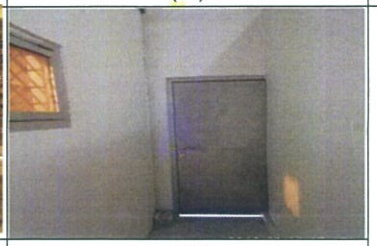
No.	Tanggal	Kegiatan	Penjelasan	Gambar atau Foto		Keterangan
1	4-Dec-18	Handling Material Milik BUI	Baik			Handling Material Milik BUI
				(1.1)	(1.2)	

LAPORAN PEKERJAAN INVENTORY (MHE)
GUDANG PAGARDEWA KABUPATEN MUARA ENIM PROVINSI SUMATERA SELATAN
BULAN DESEMBER 2018
PERIODE 26 NOVEMBER s/d 25 DESEMBER 2018

E. *STOCK OPNAME*

No.	Tanggal	Kegiatan	Penjelasan	Gambar atau Foto		Keterangan
1	10-Dec-18	Stock opname material milik BUI	Baik	(1.1)	(1.2)	Material sudah sesuai dengan data laporan
5	25-Dec-18	Stock opname material milik BUI	Baik	(5.1)	(5.2)	Material sudah sesuai dengan data laporan

F. PENGAMANAN

No.	Tanggal	Kegiatan	Penjelasan	Gambar atau Foto		Keterangan
1	29-Nov-18	Pengamanan material milik BUI dan arsip vital perusahaan yang disimpan	Baik	(1.1)	(1.2)	Pengamanan Gudang pada jam istirahat
2	6-Dec-18	Pengamanan material milik BUI dan arsip vital perusahaan yang disimpan	Baik	(2.1)	 (2.2)	Pengamanan Gudang pada jam istirahat

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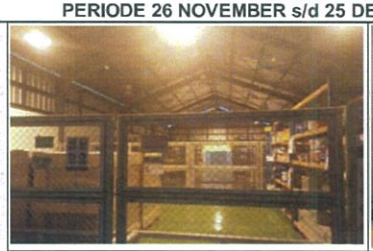
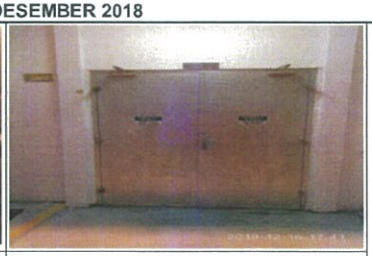
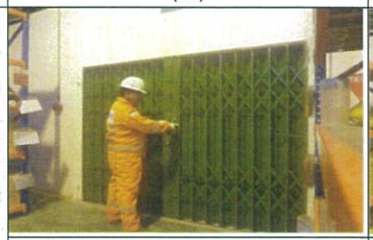
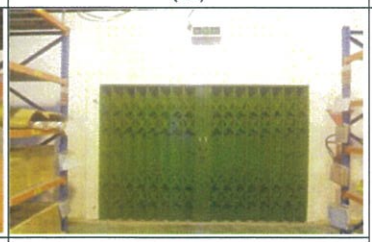
LAPORAN PEKERJAAN INVENTORY (MHE)
GUDANG PAGARDEWA KABUPATEN MUARA ENIM PROVINSI SUMATERA SELATAN
BULAN DESEMBER 2018
PERIODE 26 NOVEMBER s/d 25 DESEMBER 2018

3	16-Dec-18	Pengamanan material milik BUI dan arsip vital perusahaan yang disimpan	Baik	 (3.1)	 (3.2)	Pengamanan Gudang pada jam istirahat
4	20-Dec-18	Pengamanan material milik BUI dan arsip vital perusahaan yang disimpan	Baik	 (4.1)	 (4.2)	Pengamanan Gudang pada jam istirahat

Pagardewa, 25 Desember 2018

Dibuat	Disetujui
M. Fajar Rizki / Rian Farnedy	Lukman Ferdiyanto
Staff Gudang Pagardewa	Kepala Gudang Pagardewa

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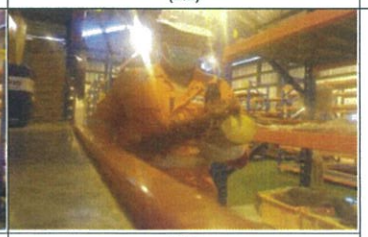
LAPORAN PEKERJAAN PEMELIHARAAN ASET PENUNJANG INFRASTRUKTUR
GUDANG PAGARDEWA KABUPATEN MUARA ENIM PROVINSI SUMATERA SELATAN
BULAN DESEMBER 2018
PERIODE 26 NOVEMBER s/d 25 DESEMBER 2018

A. KONDISI GUDANG DAN FASILITAS PENUNJANG

No.	Tanggal	Kondisi Gudang	Penjelasan	Status	Gambar atau Foto		Tindak Lanjut
1							

B. PERAWATAN MATERIAL

No.	Tanggal	Kegiatan	Kondisi Material	Gambar atau Foto		Keterangan
1	26-Nov-18	Perawatan Material Milik BUI	Baik	(1.1)	(1.2)	Material di bersihkan dari debu dan kotoran yang menempel
2	30-Nov-18	Perawatan Material Milik BUI	Baik	(2.1)	(2.2)	Material di bersihkan dari debu dan kotoran yang menempel
3	3-Dec-18	Perawatan Material Milik BUI	Baik	(4.1)	 (4.2)	Material di bersihkan dari debu dan kotoran yang menempel

LAPORAN PEKERJAAN PEMELIHARAAN ASET PENUNJANG INFRASTRUKTUR
GUDANG PAGARDEWA KABUPATEN MUARA ENIM PROVINSI SUMATERA SELATAN
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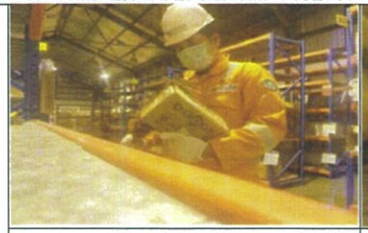
4	7-Dec-18	Perawatan Material Milik BUI	Baik	 (5.1)	(5.2)	Material di bersihkan dari debu dan kotoran yang menempel
5	14-Dec-18	Perawatan Material Milik BUI	Baik	(6.1)	(6.2)	Material di bersihkan dari debu dan kotoran yang menempel
6	17-Dec-18	Perawatan Material Milik BUI	Baik	(7.1)	(7.2)	Material di bersihkan dari debu dan kotoran yang menempel
7	21-Dec-18	Perawatan Material Milik BUI	Baik	(7.1)	(7.2)	Material di bersihkan dari debu dan kotoran yang menempel

8	24-Dec-18	Perawatan Material Milik BUI	Baik			Material di bersihkan dari debu dan kotoran yang menempel
				(7.1)	(7.2)	

C. PERAWATAN MATERIAL HANDLING EQUIPMENT

No.	Tanggal	Kegiatan	Kondisi Material	Gambar atau Foto		Keterangan
1	04-Des-18	Perawatan Handpallet	Baik			Pembersihan pada hand pallet
				(1.1)	(1.2)	

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LAPORAN PEKERJAAN PEMELIHARAAN ASET PENUNJANG INFRASTRUKTUR
GUDANG PAGARDEWA KABUPATEN MUARA ENIM PROVINSI SUMATERA SELATAN
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D. PERHITUNGAN & PENGECEKAN FISIK (*STOCK OPNAME*) BERKALA

No.	Tanggal	Nama Material	Spesifikasi	Saldo Awal	Saldo Akhir	Satuan	Selisih	Posisi	Remark	Kondisi Material
A. MATERIAL INVESTASI (MI)										
1										
2										
B. *MAINTENANCE, REPAIR, OPERATION* (MRO)										
1	10-Dec-18	Washer	WASHER, 9M1974, GAS ENGINE CATERPILLAR G3516	15,00	15,00	Pcs	0	Rak-A1.3	-	Baik
2	10-Dec-18	Omron Power Supply	POWER SUPPLY, OMRON, S8JX-G05024C, GRISWOLD	4,00	4,00	Unit	0	Rak-AC15.4	-	Baik
3	10-Dec-18	Air Filter Regulator	REGULATOR, AIR FILTER, NORGREN, MODEL : B73G-4AK-QDI-RMG	3,00	3,00	Ea	0	Rak-AC12.3	-	Baik
4	10-Dec-18	Fil/Reg rel Repair Kit 73	REGULATOR, FILTER, REPAIR KIT 73, SERIES 4383-600	25,00	25,00	Ea	0	Rak-AC12.3	-	Baik
5	10-Dec-18	Sight Glass Kit 73	SIGHT GLASS, KIT 73, NORGREN, SERIES 4380-020	2,00	2,00	Ea	0	Rak-AC12.3	-	Baik
6	10-Dec-18	Pressure Gauge	GAUGE, PRESSURE, DIAL 2 INCH, MOVEMENT : POWER FLEX, TYPE : 1005S, CASE: STAINLESS STEEL, SOCKET : BRASS, BOURDON TUBE : BRONZE, BACK CONNECTION, 1/4 INCH NPT/API, RANGE : 0 -160 PSI, ASHCROFT	4,00	4,00	Ea	0	Rak-AC12.6	-	Baik
7	10-Dec-18	Pressure Gauge	GAUGE, PRESSURE, DIAL 6 INCH, MOVEMENT : POWER FLEX, TYPE : 1009S, CASE: STAINLESS STEEL, SOCKET : BRASS, BOURDON TUBE : BRONZE, BOTTOM CONNECTION, 1/2 INCH NPT/API, RANGE : 0 - 600 PSI, ASHCROFT	1,00	1,00	Ea	0	Rak-AC12.6	-	Baik
8	10-Dec-18	Fisher regulator spare part	REGULATOR, KIT , REPAIR, FISHER, 32A PILOT WITH NITRILE SPARKES, R32AX000012	1,00	1,00	Ea	0	Rak-AC13.5	-	Baik
9	10-Dec-18	Fisher regulator spare part	REGULATOR, KIT, REPAIR, FISHER, 310, 2 INCH VITON TRIM, R310X000042	1,00	1,00	Ea	0	Rak-AC13.5	-	Baik
10	25-Dec-18	Valve Seat	VALVE SEAT, 1624 0316 00, AIR COMPRESSORS ATLAS COPCO GA55	1,00	1,00	Unit	0	Rak-C1.3	-	Baik
11	25-Dec-18	Mini Filter 16 Bar	MINI FILTER, 9093 0032 11, AIR COMPRESSORS ATLAS COPCO GA55	2,00	2,00	Ea	0	Rak-C1.5	-	Baik
12	25-Dec-18	Gasket For Rear Window	GASKET FOR REAR WINDOW, MC0593	17,00	17,00	Ea	0	Rak-AC14.4	-	Baik
13	25-Dec-18	Low Tape Sensor	LOW TAPE SENSOR, PM0432	2,00	2,00	Ea	0	Rak-AC14.4	-	Baik
14	25-Dec-18	Electronic Position Transmitter	TRANSMITTER, ELECTRONIC POSITION, FS4210-A2, FISHER 4210, H2S ANALYZER	1,00	1,00	Ea	0	Rak-G2.5	-	Baik
15	25-Dec-18	Tube Fitting, Reducing Union	REDUCING UNION, 1/2 INCH OUTSIDE DIAMETER TUBE X 3/8 INCH OUTSIDE DIAMETER TUBE, STAINLESS STEEL SS316, SS-810-6-6	2,00	2,00	Ea	0	Rak-G3.5	-	Baik
16	25-Dec-18	Tube Fitting, Reducing Union	REDUCING UNION, 3/8 INCH OUTSIDE DIAMETER TUBE X 1/4 INCH OUTSIDE DIAMETER TUBE, STAINLESS STEEL SS316, SS-600-6-4	2,00	2,00	Ea	0	Rak-G3.5	-	Baik
17	25-Dec-18	Tube Fitting, Male Connector	SS SWAGELOK TUBE FITTING, MALE CONNECTOR, 3/8 INCH OUTSIDE DIAMETER TUBE X 1/2 INCH MALE NOMINAL PIPE THREAD, SS-600-1-8	6,00	6,00	Ea	0	Rak-G3.5	-	Baik
18	25-Dec-18	Tube Fitting, Male Connector	MALE CONNECTOR, 3/8 INCH OUTSIDE DIAMETER TUBE X 3/8 INCH MALE NOMINAL PIPE TUBE, STAINLESS STEEL SS316, SS-600-1-6	6,00	6,00	Ea	0	Rak-G3.5	-	Baik
19	25-Dec-18	Tube Fitting, Elbow Male Connector	FITTING TUBE MALE ELBOW, 1/4 INCH OUTSIDE DIAMETER TUBE X 1/2 INCH MALE NOMINAL PIPE THREAD, SS-400-2-8	3,00	3,00	Ea	0	Rak-G3.5	-	Baik
20	25-Dec-18	Tube Fitting, Elbow Male Connector	SS SWAGELOK TUBE FITTING, MALE ELBOW, 3/8 INCH OUTSIDE DIAMETER TUBE X 1/2 INCH MALE NOMINAL PIPE THREAD, SS-600-2-8	3,00	3,00	Ea	0	Rak-G3.5	-	Baik

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LAPORAN PEKERJAAN PEMELIHARAAN ASET PENUNJANG INFRASTRUKTUR
GUDANG PAGARDEWA KABUPATEN MUARA ENIM PROVINSI SUMATERA SELATAN
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C. MAINTENANCE, REPAIR, OPERATION - ASET BELUM TERPASANG (MRO - ABT)										
1	10-Dec-18	Monitor, PWR	Module, Proximitor Input, 1034549-20, Gas Turbine Solar Taurus 70	1,00	1,00	Unit	0	Rak-AC1.3	-	Baik
2	10-Dec-18	Proximitor	Proximitor, 190817-14, Gas Turbine Solar Taurus 70	1,00	1,00	Pcs	0	Rak-AC1.3	-	Baik
3	10-Dec-18	Differential Pressure Transmitter	Transmitter, Differential Pressure, 264DS.M.S.H.T.2.A.1.V2.E7.L1.B2, ABB	2,00	2,00	Pcs	0	Rak-AC11.7	-	Baik
4	10-Dec-18	Modul Input Fast	Module, Fast TC/RTD Input, 1051931-33, Gas Turbine Solar Taurus 70	1,00	1,00	Pcs	0	Rak-AC1.3	-	Baik
5	10-Dec-18	Modul Premier	Module, DCIO, 1056244-3, Gas Turbine Solar Taurus 70	1,00	1,00	Pcs	0	Rak-AC1.3	-	Baik
6	10-Dec-18	Switch Level	Switch, Level, 1057213-1, Gas Turbine Solar Taurus 70	1,00	1,00	Pcs	0	Rak-E2.8	-	Baik
7	10-Dec-18	Pressure Transmitter	Transmitter, Pressure, 264HSPSTA1 E6L 1B212H1, Sensor - Span Limits 3.5 and 348 psi, Diaphragm Material AISI 316L SS, Silicon Oil, Connection Material AISI 316L SS, 1/2 - 14 NPT Male, Housing Material And Electrical Connection Aluminium Alloy, HART Digital	1,00	1,00	Ea	0	Rak-AC11.7	-	Baik
8	25-Dec-18	Pressure Transmitter	GAUGE PRESSURE TRANSMITTER, SPAN LIMITS 23.2 AND 2320 PSI, DIAPHRAGM MATERIAL AISI 316L SS SILICON OIL, PROCESS CONECTION MATERIAL, AISI 316L SS, 1/2 - 14 NPT MALE, HOUSING MATERIAL AND ELECTRICAL CONNECTION ALUMINIUM ALLOY, ABB	1,00	1,00	Ea	0	Rak-AC11.7	-	Baik
9	25-Dec-18	Pressure Differential Transmitter	Transmitter, Differential Pressure, Span Limits 11.6 and 1160 psi, Diaphragm Material AISI 316L SS Silicon Oil, Process Flanges / Adapters Material and Connection AISI 316L SS 1/2 - 14 NPT-F Through Adapter (7/16 - 20 UNF U.S. drilling), Bolts / Gasket Al	1,00	1,00	Ea	0	Rak-AC11.7	-	Baik
10	25-Dec-18	Pressure Transmiter	Transmitter, Pressure, EJA 430A-EAS5B-97DB/F FI/D1/N4/M01/T03/XI, Range : 0 - 600 psig, Yokogawa	1,00	1,00	Ea	0	Rak-AC12.7	-	Baik
11	25-Dec-18	Temperature Transmitter	Transmitter, Temperature, YTA110-EA2DD/FF1/X1/C1/D2, 4 to 20 mA DC with Digital Communication (HART Protocol, Refer To GS 01C50T)1-00E), 1/2 NPT Female, with Digital Indicator, SUS304 Stainless Steel 2 Inch Vertical Pipe Mounting, Yokogawa	1,00	1,00	Ea	0	Rak-AC12.8	-	Baik
12	25-Dec-18	Transmitter	Transmitter, Level, 1064829-4, Gas Turbine Solar Taurus 70	1,00	1,00	Unit	0	Rak-E2.7	-	Baik
13	25-Dec-18	3/2 Way Key Operated Pilot Valve	Valve, 3/2 Three Way Pilot Operated Valve, Versa BSP-3306-316-31-4E01, Stainless Steel Construction SS316	1,00	1,00	Unit	0	Rak-G1.3	-	Baik
14	25-Dec-18	Air Circuit Breaker	Air Circuit Breaker, Masterpact NW16H13D6AH 3P, 1600A Draw Out Type + Micrologic 6.0P	1,00	1,00	Unit	0	R.Sparepart	-	Baik
15	25-Nov-18	Air Circuit Breaker	Air Circuit Breaker, Masterpact NW10H13D6AH 3P, 1000A Draw Out Type + Micrologic	1,00	1,00	Unit	0	R.Sparepart	-	Baik

Lampiran :
1. Jadwal Pemeliharaan Material dan Laporan *Material Handling Equipment*

Pagardewa, 25 Desember 2018

Dibuat	Disetujui
M.Fajar Rizki / Rian Farnedy	Lukman Ferdiyanto
Staff Gudang Pagardewa	Kepala Gudang Pagardewa

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LAPORAN KAPASITAS TERSEDIA
GUDANG PAGARDEWA KABUPATEN MUARA ENIM PROVINSI SUMATERA SELATAN
PERIODE 26 November s/d 25 Desember 2018

Gudang AC	Gudang Non-AC	Gudang Shelter
1. Luas Gudang = 8,8 x 10 m2 = 88 m2 2. Tersedia 4 rak yang kosong,masing masing rak ada 5 level (Luas 1 level rak = 180 cmcm x 70 cm) 3. Tersedia beberapa row yang masih kosong pada beberapa rak material	1. Luas Gudang = 30 x 10 m2 = 300 m2 2. Tersedia 12 rak kosong ,masing masing rak ada 4 level (Luas 1 level rak = 180 cm x 70 cm)	1. Luas Gudang = 2,5 x 4 m2 = 10 m2 2. Tersedia untuk transit material sementara dan Material Eks Jaringan

LOKASI : GUDANG PAGARDEWA KABUPATEN MUARA ENIM PROVINSI SUMATERA SELATAN

PERIODEPERIODE 26 NOVEMBER s/d 25 DESEMBER 2018

Pagardewa, 25 Desember 2018

Dibuat	Disetujui
M. Fajar Rizki / Rian Farnedy	Lukman Ferdiyanto
Staff Gudang Pagardewa	Kepala Gudang Pagardewa

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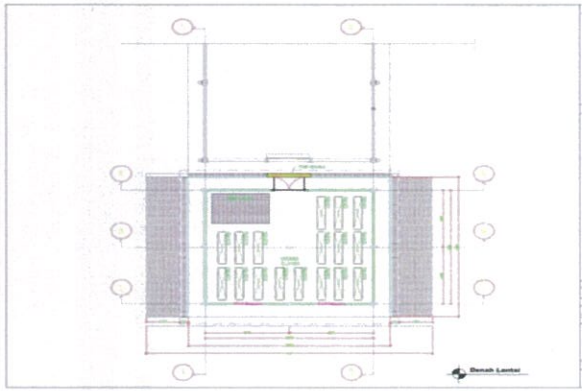
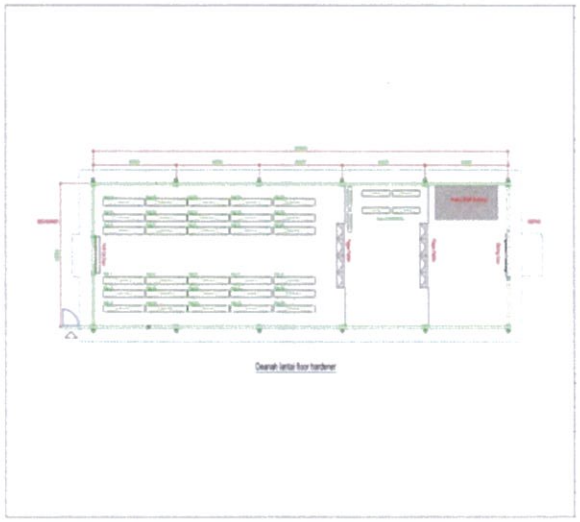
GUDANG PAGARDEWA KABUPATEN MUARA ENIM PROVINSI SUMATERA SELATAN
PERIODE 26 NOVEMBER s/d 25 DESEMBER 2018

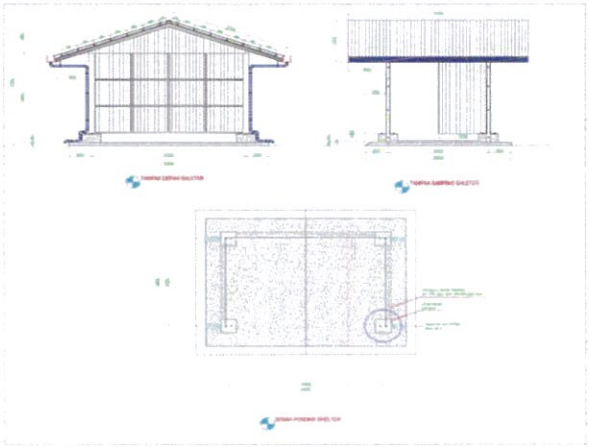
Lay Out Gudang AC



Lay Out Gudang Non-AC



Lay Out Gudang Shelter



LOKASI : GUDANG PAGARDEWA KABUPATEN MUARA ENIM PROVINSI SUMATERA SELATAN
PERIODE 26 NOVEMBER s/d 25 DESEMBER 2018

Pagardewa, 25 Desember 2018

Dibuat	Disetujui
M. Fajar Rizki / Rian Farnedy	Lukman Ferdiyanto
Staff Gudang Pagardewa	Kepala Gudang Pagardewa

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PENGELOLAAN INVENTORY

LOKASI : GUDANG BOJONEGARA - CILEGON

JANUARI 2019

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JADWAL PEMELIHARAAN MATERIAL GUDANG BOJONEGARA - CILEGON

No.	Item Kegiatan Gudang			Periode Januari 2019																															
				Minggu Ke - I							Minggu Ke - II							Minggu Ke - III							Minggu Ke - IV									
	Jenis Kegiatan	Pic	Plan Actual	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
1	Pembersihan Gudang dan Lingkungan Sekitar	.....	Plan																															
2			Actual																															
3	Pembersihan Rak Material dan Pallet	.....	Plan																															
4			Actual																															
5	Perawatan Material	.....	Plan																															
6			Actual																															
7	Perawatan *Material Handling Equipment*	.....	Plan																															
8			Actual																															
9	Pengontrolan Stockyard	.....	Plan																															
10			Actual																															
11	Stock Opname Material	.....	Plan																															
12			Actual																															
13	Rekonsiliasi Pencatatan Internal	.....	Plan																															
14			Actual																															
15	Update Laporan Persediaan dan Gudang	.....	Plan																															
16			Actual																															
17	Bersama Melakukan K3 dan 5R	.....	Plan																															
18			Actual																															

Keterangan :

= Rencana kegiatan

= Pelaksanaan kegiatan

Bojonegara, 25 Januari 2019

Dibuat	Disetujui
DONNY A / ALI M	ERWIN PERDANA R
Staff Gudang Bojonegara	Kepala Gudang Bojonegara

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LAPORAN PEKERJAAN INVENTORY (MHE)
GUDANG BOJONEGARA - CILEGON
PERIODE JANUARI 2019

A. PENYIMPANAN

No.	Tanggal	Kegiatan	Penjelasan	Gambar atau Foto		Keterangan
1	25-Jan-19	Penyimpanan Material BUI	Baik	(1.1)	(1.2)	Material tertata di atas rak
2	25-Jan-19	Penyimpanan Material BUI	Baik	(2.1)	(2.2)	Material tertata di atas rak dan di wraping

B. PERAWATAN

No.	Tanggal	Kegiatan	Penjelasan	Gambar atau Foto		Keterangan
1	25-Jan-19	Perawatan material milik BUI	Baik	(1.1)	(1.2)	Membersihkan Material dan Cleaning area penyimpanan material
2	25-Jan-19	Perawatan material milik BUI	Baik	(2.1)	(2.2)	Membersihkan Material dan diletakan diatas rak

LAPORAN PEKERJAAN INVENTORY (MHE)
GUDANG BOJONEGARA - CILEGON
PERIODE JANUARI 2019

C.PENATAAN

No.	Tanggal	Kegiatan	Penjelasan	Gambar atau Foto		Keterangan
1	25-Jan-19	Penataan area taman gudang	Baik	(1.1)	(1.2)	Pemangkasan rumput di area samping gudang dan pembersihan Daun Kering yang berterbangan di area depan gudang
1	25-Jan-19	Penataan area taman gudang	Baik	(1.1)	(1.2)	Pembersihan Daun Kering yang berterbangan di area depan gudang dan pembersihan drenase air di area gudang

D. *HANDLING*

No.	Tanggal	Kegiatan	Penjelasan	Gambar atau Foto		Keterangan
1	25-Jan-19	Handling Material Milik BUI	Baik	(1.1)	(1.2)	Handling material
	25-Jan-19					

E. *STOCK OPNAME*

No.	Tanggal	Kegiatan	Penjelasan	Gambar atau Foto		Keterangan
1	25-Jan-19	Stock opname material milik BUI	Baik			Material sudah sesuai dengan data laporan
				(1.1)	(1.2)	
2	25-Jan-19	Stock opname material milik BUI	Baik			Material sudah sesuai dengan data laporan
				(2.1)	(2.2)	

F. PENGAMANAN

No.	Tanggal	Kegiatan	Penjelasan	Gambar atau Foto		Keterangan
1	25-Jan-19	Pengamanan material milik BUI dan arsip vital perusahaan yang disimpan	Baik			Pengamanan area Gudang oleh security
				(1.1)	(1.2)	

Bojonegara, 25 Januari 2019

Dibuat	Disetujui
DONNY A / ALI M	ERWIN PERDANA R
Staff Gudang Bojonegara	Kepala Gudang Bojonegara

LAPORAN PEKERJAAN PEMELIHARAAN ASET PENUNJANG INFRASTRUKTUR
GUDANG BOJONEGARA - CILEGON
PERIODE JANUARI 2019

A. KONDISI GUDANG DAN FASILITAS PENUNJANG

No.	Tanggal	Kondisi Gudang	Penjelasan	Status	Gambar atau Foto		Tindak Lanjut
1	25-Jan-19	Lampu ruangan atas lantai mezanin	Lampu ruang atas (lantai mezanin) mati tidak ada penerangan	Open	(1.1)	(1.2)	Belum di tindak lanjut
2	25-Jan-19	Habim ruang atas lantai mezanin	Habim ruang atas lantai mezanin pada korosi/berkarat	Close	(2.1)	(2.2)	Habim ruang atas lantai mezanin yang korosi atau berkarat sudah tertutup atau dicat
3	25-Jan-19	Lantai Ruang Gudang III	Lantai Gudang Ruang III sudah kusam dan rusak	Close	(3.1)	(3.1)	Lantai keramik Ruang III sudah diganti

B. PERAWATAN MATERIAL

No.	Tanggal	Kegiatan	Kondisi Material	Gambar atau Foto		Keterangan
1	25-Jan-19	Perawatan material Milik BUI	Baik	(1.1)	(1.2)	Perawtan Material dan membersihkan Material

2	25-Jan-19	Perawatan material Milik BUI	Baik	(2.1)	(2.2)	Perawtan Material dan membersihkan Material

C. PERAWATAN MATERIAL HANDLING EQUIPMENT

No.	Tanggal	Kegiatan	Kondisi Material	Gambar atau Foto		Keterangan
1	25-Jan-19	Perawatan Tangga Hydrolic	Baik	(1.1)	(1.2)	Perawatan visual Handling Equipment
2	25-Jan-19	Perawatan Tangga Hydrolic	Baik	(2.1)	(2.2)	Perawatan visual Handling Equipment

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LAPORAN PEKERJAAN PEMELIHARAAN ASET PENUNJANG INFRASTRUKTUR
GUDANG BOJONEGARA
PERIODE JANUARI 2019

D. PERHITUNGAN & PENGECEKAN FISIK (*STOCK OPNAME*) BERKALA

No.	Tanggal	Nama Material	Spesifikasi	Saldo Awal	Saldo Akhir	Satuan	Selisih	Posisi	Remark	Kondisi Material
A. MATERIAL INVESTASI (MI)										
B. *MAINTENANCE, REPAIR, OPERATION* (MRO)										
		Flow Control Valve								BAIK
1		Solenoid Valve Repair		1,00	1,00	Ea		E1.3		BAIK
2		Ball Valve 2"	Class 600# RF Flange, Full Bore, Trunnion Mounted, Full Open Bore, Lever Operated, API Spec 6D, Body/Cover: ASTM A105, Ball: ASTM A105+HCR/ENR, Stem: A182-F6a, Seat Insert. RPTFE Nylon, Seat: ASTM A105, Seal: Viton, Bolting: A193-B7/A194-214	1,00	1,00	Ea		PALLET		BAIK
3		Solenoid Valve 1/4", 2/2 Way, Normally Close	Body Material : Brass, Seal and Disc : FKM, CV : 1;1, MOPD : 20.7 Bar, Nominal Fluid Temperatur : 12 deg C, Solenoid Enclosure : NEMA 4x with 1/2" Conduit Hub	1,00	1,00	Unit		E1.7		BAIK
4		Forged Steel Gate Valve 1", ANSI 600 RF	Bolted Bonnet, Outside Screw & Yoke, Rising Stem, Non-Rising Handwheel, Flexible Wedge, Design by API 602, Face to Face to ANSI B16.10, Body/ Bonnet A105, Seat Ring A276-410+Stl, Wegde A276-420, Stem/Gland/Eye Bolt/Pin A276-410, Bonnet Bolt A193-B7, PAcking Grafoil, GAsket 304+Graphite, Gland Flange A216 WCB, Nut A194-2H, Handwheel A197	2,00	2,00	Ea		PALLET		BAIK
5		Cast Steel Gate Valve 2", ANSI 600 RF	Bolted Bonnet, Outside Screw & Yoke, Rising Stem, Non-rising Handwheel, Flexible Wedge, Design by API 600, Face to face to ANSI B16.10, Body/Bonnet/Gland Flange A216 WCB, Stem/Gland A182 F6a, Wedge A216 WCB+Cr13, Seat Ring A105+cr13?stl, Gasket Ring Joint Metal, PAcking Graphite, Gland Flange A216WCB, Bolt/Nut A193-B7/A194-2H	2,00	2,00	Ea		PALLET		BAIK
6		Solenoid Type II	Suffix Code : JBEF8262H080	2,00	2,00	Unit		E1.7		BAIK
7		Solenoid Type III	Suffix Code : EF8344G000	2,00	2,00	Unit		D2.6		BAIK
		FITTING AND FLANGE								BAIK
7		Leak Lock Adapter Metal Seat	D-FW-LL1-MS-SS, sealweld	5,00	5,00	Ea		E1.5		BAIK
8		Leak Lock Adapter Gasket Seat	D-LL-GSK-ASB, sealweld	4,00	4,00	Ea		E1.5		BAIK
		INSTRUMENT								BAIK
9		Calibration Cylinder Replacement	Point IR Calibration Cylinder Replacement, Methane Concentration, 50% LEL, 2,5% Vol, Det-Tronics	2,00	2,00	Ea		E1.8		BAIK
		Spare part Gas Chromatograph (GC)		4,00	4,00					BAIK
10		Kit of 5 element, genie 120 filter		3,00	3,00	Ea				BAIK
11		Temperatur Control Thermister		1,00	1,00	Ea				BAIK
12		Teflon Thermistor Seals (set of 10)		1,00	1,00	Ea		E1.5		BAIK
13		Microfuse, 3A 120 VAC (set of 5)		1,00	1,00	Ea		E1.5		BAIK
14		Package of 5 fuses, 3A 250 VAC, SB		1,00	1,00	Ea		E1.5		BAIK
15		Solenoid valve Srs		2,00	2,00	Ea		E1.5		BAIK
16		Repair Kit, 6-port valve - for use model 700 only		9,00	9,00	Ea		D1.2		BAIK
17		Repair Kit, 10-port valve - for use model 700 only		3,00	3,00	Ea		D1.2		BAIK
18		Filter Elemen 2 Micron	SS-2F-K4-2, SWAGELOK	3,00	3,00	Ea		E1.5		BAIK
19		PCA F/P Led Display	2350, BE12369 C/9031	1,00	1,00	Ea		E1.5		BAIK
		Spare part for Fire & Gas System								BAIK
20		Pressure Gauge	Type 3, 0-230 psi; 80 mm, WISE	2,00	2,00	Unit		E1.7		BAIK
21		Pressure Gauge	Type 4, 0-1500 psi; 125 mm, WISE	3,00	3,00	Unit		E1.7		BAIK
22		Pressure Gauge	Type 5, 0-1450 psi; 63 mm, WISE	1,00	1,00	Unit		E1.7		BAIK
23		Pressure Gauge	Type 6, 0-1000 psi; 80 mm, WISE	3,00	3,00	Unit		E1.7		BAIK
24		Pressure Gauge	Type 7, 0-1000 psi; 125 mm, WISE	-	-	Unit		E1.7		BAIK
25		Pressure Gauge	Type 8, 0-1500 psi; 80 mm, WISE	2,00	2,00	Unit		E1.7		BAIK
26		Pressure Gauge	Type 9, 0-2000 psi, 80 mm, WISE	4,00	4,00	Unit		E1.7		BAIK
27		Pressure Gauge	Type 10, 0-5000 psi; 50 mm, WISE	8,00	8,00	Unit		E1.7		BAIK
		Spare Part PCV								BAIK
28		O-Ring	Dash #459, ECO 15655, Rubber, Buna-N, 70 Durometer, 8 year shelf life : Purchase and receive per SPP 218 (ECO 14403);Old #10003275	4,00	4,00	Pcs		E1.3		BAIK
29		O-Ring	Dash #223, ECO 15655, Rubber, Buna-N, 70 Durometer, 8 year shelf life : Purchase and receive per SPP 218 (ECO 14403);Old #10011369	4,00	4,00	Pcs		E1.5		BAIK
30		Pin	Spiral, 0.25 DIA. 1.50L, CEM CO, Mil Code N/A: See Drawing, P.P., or BofM Assembly (Rev'd per ECO 13949); Old #10044207	6,00	6,00	Pcs		E1.5		BAIK
31		Guide Liner	3.00 STEM, PTFE, Plastic, PTFE, Glassfield 25%, Indefinite Shelf Life : Purchase and receive per SPP 218 (ECO 14403); Old #10020551	8,00	8,00	Pcs		E1.5		BAIK
32		Gasket	Flat Metal, 1.19 x 0.66, 0.06 THICK, AN960D1016, Aluminium, Washer, H-52 5052 (Revised 15 Jan 97); Old #10003771	-	-	Pcs				BAIK
33		Gasket	Non Metallic, 9.50 OD, 5.38 ID, 0.06 THICK, 6 HOLES, 0.75 DIA, 8.00 B.C., Rubber, Neoprone, Cork (Mil Std C-6 183A, Type 1, Class 2) 8 Year shelf life: Purchase and Receive per SPP 218 (ECO 14403); Old #10038451	4,00	4,00	Ea		E1.3		BAIK

34		Packing Set	Twin Vee, 3.00 STEM, Plastic, PTFE, Virgin, Indefinite Shelf Life : Purchase and Receive per SPP 218 (ECO 14403); Old #10024298	3,00	3,00	Pcs		E1.5		BAIK
35		Filter Regulator	B08-251-M1MA, 1/4" NPT, NORGREN	1,00	1,00	Ea		E1.7		BAIK
36		Gasket	GASKET, NONMETALLIC, 3.00x2.50, 0.03 Thick, Plastic PTFE, Virgin, Indefinite shelf life	1,00	1,00	Ea		E1.5		BAIK
37		Gasket Spiral	16.75 x 15.75, 0.19 Thick, CL 600, Gasket, Spiral Wound ; 316, Grafoil	2,00	2,00	Ea		G1.1		BAIK
38		Gasket Spiral	16.25 x 15.50, 0.19 Thick, CL 600, Gasket, Spiral Wound ; 316, Grafoil	1,00	1,00	Ea		G1.1		BAIK
39		Gasket Spiral	18.50 x 17.50, 0.19 Thick, CL 600, Gasket, Spiral Wound ; 316, Grafoil	1,00	1,00	Ea		G1.1		BAIK
40		O-ring	Dash #450, ECO 15655, Rubber, Viton A, 75 +/- 5 Durometer	1,00	1,00	Ea		E1.3		BAIK
41		Gasket	Nonmetalic, 6.88 OD, 3.75 ID, 0.03 Thick, 4 Holes, 0.69 Dia	5,00	5,00	Ea		E1.3		BAIK
42		GASKET	PTFE, 18.50 X 17.50, 0.15 THICK, Plastic, PTFE, Virgin, Indefinite shelf life: Purchase and receive per SPP-218 (ECO 14403);Old #10024387	3,00	3,00	Ea		G1.1		BAIK
43		GASKET	PTFE, 16.25 X 15.50, 0.15 THICK, Plastic, PTFE, Virgin, Indefinite shelf life: Purchase and receive per SPP-218 (ECO 14403);Old #10024300	3,00	3,00	Ea		G1.1		BAIK
44		Gauge	0-160 PSI/0-11 BAR/X100KPA, Flowserve, 1.50 DIA, REAR, MTG, 1/8"NPT BRASS, Stainless Steel Case,	2,00	2,00	Ea		E1.5		BAIK
45		Safety Bleed Screw Seal	Nitrile	14,00	14,00	Pcs		D1.5		BAIK
46		**Sparepart H2S Analyzer**								BAIK
47		Flowmeter		2,00	2,00	Ea		E1.4		BAIK
48		24V Stepper Motor		1,00	1,00	Ea		E1.4		BAIK
49		Rear Window For Sample Chamber		2,00	2,00	Ea		E1.4		BAIK
50		Headline Element 125770C		4,00	4,00	Ea		E1.4		BAIK
51		Gasket For Rear Window		4,00	4,00	Ea		E1.4		BAIK
52		Low Tape Sensor		2,00	2,00	Ea		E1.4		BAIK
53		Compression Head Assembly (Trigger),		2,00	2,00	Ea		E1.4		BAIK
54		Humidifier Tubing Replacement Kit		2,00	2,00	Ea		E1.4		BAIK
55		Uptake Wheel		4,00	4,00	Ea		E1.4		BAIK
56		Drift Shaft		4,00	4,00	Ea		E1.4		BAIK
57		Coupling Spider 3/16" ID		1,00	1,00	Ea		E1.4		BAIK
58		Coupling Spider 1/4" ID		1,00	1,00	Ea		E1.4		BAIK
59		O-Ring, ETH/PROP		1,00	1,00	Ea		D2.5		BAIK
60		Bearing, Chopper Wheel		2,00	2,00	Ea		D2.5		BAIK
61		Check Valve		-	-	Ea		D2.5		
62		O-ring, Viton, 2-010		-	-	Ea		D2.5		
63		Coalescing Filter Element		-	-	Ea		D2.5		
64		O-ring, Atlas #008		-	-	Ea		D2.5		
65		O-ring, Atlas, #121		-	-	Ea		D2.5		
66		O-ring, HSN, #125		-	-	Ea		D2.5		
67		O-ring, HSN, #113		-	-	Ea		D2.5		
68		Cell Window, Fused Silica		-	-	Ea		D2.5		
69		O-Ring, HSN, #125		12,00	12,00	Ea		D2.5		BAIK
70		Flow Restrictor		1,00	1,00	Ea		D2.5		BAIK
71		O-ring, Atlas, #008		4,00	4,00	Ea		D2.5		BAIK
72		O-ring, Atlas, #006		2,00	2,00	Ea		D2.5		BAIK
73		High-Flow Membrane Filter (c/w o-ring)		1,00	1,00	Ea		D2.5		BAIK
74		Type-5 Membrane Filter (c/w o-ring)		1,00	1,00	Ea		D2.5		BAIK
75		O-ring, Atlas, #115		3,00	3,00	Ea		D2.5		BAIK
76		Filter Cartridge (Element Coalescing)		4,00	4,00	Ea		D2.5		BAIK
77		O-ring, Viton, #2-010		4,00	4,00	Ea		D2.5		BAIK
78		Male Connector 1/2"	1/2"ODTx1/2"MNPT, SS316, SWAGELOK	5,00	5,00	Ea		E1.6		BAIK
79		Union Tee 1/2"	1/2"ODT, SS316, SWAGELOK	9,00	9,00	Ea		E1.6		BAIK
80		Stainless Steel Cap 1/2"	1/2" ODT, SS316, SWAGELOK	15,00	15,00	Ea		E1.6		BAIK
81		Front & Back Ferrule 1/4"	1/4" ODT, SS316, SWAGELOK	290,00	290,00	Ea		E1.6		BAIK
82		Front & Back Ferrule 1/2"	1/2" ODT, SS316, SWAGELOK	280,00	280,00	Ea		E1.6		BAIK
83		Tubing SS 1/2"	1/2" OD, 0.065" WTk, SWAGELOK	2,00	2,00	Ea		E1.6		BAIK
84		Tubing SS 1/4"	1/4" OD x 0.065 " WT, 316 SS, SWAGELOK	1,00	1,00	Ea		E1.6		BAIK
85		Tubing SS 1/8"	1/8" OD x WT 0.035", SWAGELOK	2,00	2,00	Lgt		E1.6		BAIK
86		Tubing SS, 1/2"	1/2" OD, WT, 0.049", Lgt 6 mtrs, SS316, SWAGELOK	3,00	3,00	Lgt		E1.6		BAIK
87		Tubing SS 1/4"	1/4" OD X 0.049" WT X 6 meter, SS316, SWAGELOK	2,00	2,00	Lgt		E1.6		BAIK
88		Tubing SS 1/8"	1/8 in,OD x 0.028 in, SWAGELOK	1,00	1,00	Lgt		E1.6		BAIK
89		Union 1/4"	1/4 OD, SWAGELOK	3,00	3,00	Ea		E1.6		BAIK
90		Union 1/8"	1/8 OD, SWAGELOK	3,00	3,00	Ea		E1.6		BAIK
91		Male Connector 1/2"	1/2 OD x 1/4 NPT, SWAGELOK	15,00	15,00	Ea		E1.6		BAIK
92		Male Connector 1/4"	1/4 OD x 1/4 NPT, SWAGELOK	1,00	1,00	Ea		E1.6		BAIK
93		Male Connector 1/8"	1/8 OD x 1/2 NPT, SWAGELOK	14,00	14,00	Ea		E1.6		BAIK
94		Male Connector 1/8"	1/8 OD x 1/4 NPT, SWAGELOK	5,00	5,00	Ea		E1.6		BAIK
95		Female Connector 1/2"	1/2 OD x 1/2 NPT, SWAGELOK	-	-	Ea				BAIK
96		Female Connector 1/4"	1/4 OD x 1/4 NPT, SWAGELOK	5,00	5,00	Ea		E1.6		BAIK
97		Female Connector 1/8"	1/8 OD x 1/4 NPT, SWAGELOK	14,00	14,00	Ea		E1.6		BAIK
98		Reducer 1/2"	1/2 OD x 1/4 OD, SWAGELOK	3,00	3,00	Ea		E1.6		BAIK
99		Reducer 1/4"	1/4 OD x 1/8 OD, SWAGELOK	5,00	5,00	Ea		E1.6		BAIK
100		Cap SS 1/4"	for 1/4 in OD Tubing, SWAGELOK	3,00	3,00	Ea		E1.6		BAIK
101		Cap SS 1/8"	for 1/8 in OD Tubing, SWAGELOK	5,00	5,00	Ea		E1.6		BAIK
102		Plug SS 1/2"	for 1/2 in Tube Fitting, SWAGELOK			Ea				BAIK
103		Plug SS 1/4"	for 1/4 in Tube Fitting, SWAGELOK			Ea				BAIK
104		Plug SS 1/8"	for 1/8 in Tube Fitting, SWAGELOK	5,00	5,00	Ea		E1.6		BAIK
105		Mud Dauber 1/2"	1/2 in Male NPT, SWAGELOK	3,00	3,00	Ea		E1.6		BAIK
106		Mud Dauber 1/4"	1/4 in Male NPT, SWAGELOK	5,00	5,00	Ea		E1.6		BAIK
107		Mud Dauber 1/8"	1/8 in Male NPT, SWAGELOK	4,00	4,00	Ea		E1.6		BAIK
108		Union Elbow 1/2"	1/2 in Tube OD, SWAGELOK	10,00	10,00	Ea		E1.6		BAIK
109		Union Elbow 1/4"	1/4 in Tube OD, SWAGELOK	13,00	13,00	Ea		E1.6		BAIK

110		Union Elbow 1/8"	1/8 in Tube OD, SWAGELOK	14,00	14,00	Ea		E1.6		BAIK
111		Union Tee 1/4"	1/4 in Tube OD, SWAGELOK	13,00	13,00	Ea		E1.6		BAIK
112		Union Tee 1/8"	1/8 in Tube OD, SWAGELOK	14,00	14,00	Ea		E1.6		BAIK
113		Ferrule Set SS 1/8"	for 1/8 in Tube Fitting, SWAGELOK	85,00	85,00	Ea		E1.6		BAIK
114		Nut and Ferrule Set 1/4"	for 1/4 in Tube Fitting, SWAGELOK	102,00	102,00	Ea		E1.6		BAIK
115		Nut and Ferrule Set 1/2"	1/2"OD, SS-316, SWAGELOK	67,00	67,00	Ea		E1.6		BAIK
116		Female Connector 1/2"	1/2"ODx1/4" FNPT, 316-SS, SWAGELOK	4,00	4,00	Ea		E1.6		BAIK
117		Reduction Union 1/2"	1/2 in x 1/4 in tube OD, SWAGELOK	14,00	14,00	Ea				BAIK
		Spare Part H2O Analyzer								BAIK
118		Fuse Miniatur 3,15A		1,00	1,00	Ea		D2.5		BAIK
119		Fuse , 1/8A, 250V		1,00	1,00	Ea		D2.5		BAIK
120		Capillary Matched Set (a set of 3 pieces)		2,00	2,00	EA		D2.5		BAIK
121		**Spare part HCV & SDV**								BAIK
122		Odorant Filter Element Kit		-	-	Unit		D1.1		BAIK
123		O-ring 334 Viton		1,00	1,00	Unit		D1.1		BAIK
124		3-Way Solenoid Valve		-	-	Unit		D1.1		BAIK
125		NJEX Gas Filter Replacement Filter Element		1,00	1,00	Unit		D1.1		BAIK
126		NJEX Pump Oil, 16 Oz Pint		1,00	1,00	Unit		D1.1		BAIK
127		Battery				Unit				BAIK
128		Piston Steam O-Ring	DASH#024, ECO 15655, Rubber, Buna-N, 70 Durometer, 8 year shelf life; Purchase and receive per SPP 218 (ECO 14403); Old # 10001669	1,00	1,00	Ea		E1.5		BAIK
129		Pressure Regulator Seal Kit	HCV, ITEM 3.28 SDGH865	5,00	5,00	Pcs		E1.3		BAIK
130		Pneumatic Piloted Valve Seal Kit	SDV, Item 3.49 A/B SDGH906	3,00	3,00	Ea		E1.3		BAIK
131		Manual Valve Seal Kit	SDV, Item 3.18 SDGH906	3,00	3,00	Ea		E1.3		BAIK
132		Pneumatic Piloted Valve Seal Kit	SDV, Item 3.49C SDGH906	5,00	5,00	Ea		E1.3		BAIK
133		Shuttle Valve Seal Kit	SDV, Item 3.21 A/B SDGH906	3,00	3,00	Ea		E1.3		BAIK
134		Bolt and Nut	Size : 3/4" x 115 mm	15,00	15,00	Pcs		G1.7		BAIK
135		Bolt and Nut	Size : 1/2" x 70 mm	20,00	20,00	Pcs		G1.7		BAIK
136		Bolt and Nut	Size : 1-1/4" x 200 mm	30,00	30,00	Pcs		G1.7		BAIK
137		Bolt and Nut	Size : 2-1/4" x 381 mm	40,00	40,00	Pcs		G1.7		BAIK
138		Bolt and Nut	Size : 5/8" x 85 mm	10,00	10,00	Pcs		G1.7		BAIK
139		Bolt and Nut	Size : 5/8" x 95 mm	10,00	10,00	Pcs		G1.7		BAIK
140		Bolt and Nut	Size : 5/8" x 115 mm	59,00	59,00	Pcs		G1.7		BAIK
141		Bolt and Nut	Size : 7/8" x 150 mm	50,00	50,00	Pcs		G1.7		BAIK
142		Bolt and Nut	Size : 1" x 175 mm	30,00	30,00	Pcs		G1.7		BAIK
143		Bolt and Nut	Size : 1" x 200 mm	15,00	15,00	Pcs		G1.7		BAIK
144		Gasket	Size : 1" dia x Tebal 1/8" # 150	10,00	10,00	Pcs		D2.9		BAIK
145		Gasket	Size : 2" dia x Tebal 1/8" # 150	4,00	4,00	Pcs		D2.9		BAIK
146		Gasket	Size : 8" dia x Tebal 1/8" # 150	6,00	6,00	Pcs		D2.10		BAIK
147		Gasket	Size : 1" dia x Tebal 1/4" # 600	2,00	2,00	Pcs		D2.7		BAIK
148		Gasket	Size : 3" dia x Tebal 1/4" # 600	6,00	6,00	Pcs		D2.10		BAIK
149		Gasket	Size : 4" dia x Tebal 1/4" # 600	14,00	14,00	Pcs		D2.7		BAIK
150		Gasket	Size : 6" dia x Tebal 1/4" # 600	15,00	15,00	Pcs		D2.9		BAIK
151		Gasket	Size : 10" dia x Tebal 1/4" # 600	5,00	5,00	Pcs		D2.9		BAIK
152		Gasket	Size : 12" dia x Tebal 1/4" # 600	10,00	10,00	Pcs		D2.7		BAIK
153		Solar Module BP SunOasis	Nominal Max Power (Pmax) = 180W; Optimum Operating Voltage (Vmp) = 35,8V; Optimum Operating Current	12,00	12,00	Unit		PALLET		BAIK
154		261 Parallel Adapter "AT"(A20)		1,00	1,00	Unit		E1.5		BAIK
155		Seal 36 Inc	S 36, 150 - 1500 VIT 70 D MS	1,00	1,00	Pcs		D1.5		BAIK
156		Safety Bleed Screw Seal	Viton	5,00	5,00	Pcs		D1.5		BAIK
157		Drive Link c/w Bush		1,00	1,00	Pcs		D1.5		BAIK
158		Universal Handle c/w Split Ring		1,00	1,00	Pcs		D1.5		BAIK
159		Bleed Screw		1,00	1,00	Pcs		D1.5		BAIK
160		Bleed Screw Head		1,00	1,00	Pcs		D1.5		BAIK
		Spare Part Fiber Optic Converter								BAIK
161		RICI-E1		2,00	2,00	Unit		D2.6		BAIK
162		VMUX310, 4 Port		2,00	2,00	Unit		D1.1		BAIK
163		AT MC101XL		2,00	2,00	Unit		D1.1		BAIK
164		AT MC201XL		6,00	6,00	Unit		D1.1		BAIK
165		Disposable Pens	Green Colour, Green, 3rd, 0.800" NIB 92pck = 6 ea), (on a 202E Recorder this is the temperatur Pen), complete with pen arm, Standart	1,00	1,00	Pck		D1.1		BAIK
166		Chart Paper	Graphic P/N. MP-100-S), 12" circular, 100# 7 D (1 box = 100 sheet)	5,00	5,00	Box		D1.1		BAIK
167		PCV Handle Cover		1,00	1,00	Set		D1.5		BAIK
168		Spiral Pin		1,00	1,00	Ea		E1.5		BAIK
169		O-Ring	2-116 Viton 75D	6,00	6,00	Ea		D1.7		BAIK
170		Marine Latern	Carmanah, Solar-powered LED Latern 68977 RayA MG50H, Yellow	4,00	4,00	Ea		E1.7		BAIK
171		Spiral Wound Gasket, 1inc	Spiral Wound Gasket, 1inc#300, ASME B16.20, Hoop/inner/ Outer Ring : SS-316, Filler Graphite, Brand : Flexiteck - UK	10,00	10,00	Ea		D1.10		BAIK
172		Spiral Wound Gasket, 8 inc	Spiral Wound Gasket, 8 inc #600, ASME B16.20, Hoop/inner/ Outer Ring : SS-316, Filler Graphite, Flexiteck - UK	18,00	18,00	Ea		D1.11		BAIK
173		Spiral Wound Gasket, 32 Inc	Spiral Wound Gasket, 32 Inc#600 (SP-44), ASME B16.20, Hoop/inner/Outer Ring : SS-316, Filler Graphite, Flexiteck - UK	6,00	6,00	Ea		D1.11		BAIK
174		VIC3-2E / M M	Two port Voice Interface Card - E and M	1,00	1,00	Ea		D1.6		BAIK
175		HWIC - 2T	2-Port Serial WAN Interface Card	3,00	3,00	Ea		D1.7		BAIK
176		VIC3 - 2FXS DID	Two-Port Voice Interface Card- FXS and DID	1,00	1,00	Ea		D1.6		BAIK
		Suku Cadang SCADA								BAIK
177		Simatic S7-400H	SYNC, SUBMODULE FOR PATCH CABLES, UP TO 10M, LKZ: DE,	28,00	28,00	Unit		D2.4		BAIK
178		BUS CONNDECTOR	BUS CONNDECTOR FOR PROFIBUS UP TO 12 MBIT/S 90, DEGREE ANGLE CABLE OUTLET, IPCD TECHNOLOGY FAST CONNECT, WITHOUT PG SOCKET 15,8X59X35,6MM (WXHXD), LKZ: DE,	63,00	63,00	Unit		D2.7		BAIK
179		Simatic DP	ET 200M INTERFACE IM 153-2 HIGH FEATURE FOR MAX. 12 S7-300 MODULES, WITH REDUNDANCY, TIME STAMPING FIT FOR ISOCHRONE MODE NEW, FEATURES: 12 MODULES/STATION SLAVE INITIATIVE FOR SWITCHES AND DRIVE ES EXTEND DATA FOR HART SECON-DARY VARIABLES OPERATION WITH 64PT, MODULES EXTENDES TIMESTAMPS WITH 32 SIGNALS/SLOT LKZ: DE,	50,00	50,00	Unit		C1.13		BAIK

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180		SIMATIC NET	SIMATIC NET, PB FC STANDARD CABLE GP, 2-WIRE, SHIELDED, SPECIAL DESIGN FOR RAPID INSTALLATION, MAX. CONSIGNMENT: 1000 M, MIN. ORDERING QUANTITY: 20 M SOLD BY THE METER	20,00	20,00	Unit		C1.13		BAIK
181		SIMATIC DP	RAIL FOR ET 200M 530 MM LONG F. MAX. 5 BUS MOD. FUNCTION: INSERT/REMOVE	4,00	4,00	Unit		C1.17		BAIK
182		SIMATIC S7	SEPARATOR MODULE BETWEEN F- AND STANDARD MODULES WITH REDUNDANT ET200M INTERFACE MODULES USE ONLY WITH SEPARATOR BUS MODULE	3,00	3,00	Unit		D1.6		BAIK
183		SIMATIC S7	SEPARATOR BUS MOD. BETWEEN F- AND STANDARD MODULES USE ONLY W. SEPARATOR MODULE	3,00	3,00	Unit		D1.6		BAIK
184		SIMATIC DP	BUS UNIT FOR ET200M FOR INTEGRATING 2 IM153-2 RED. FUNCTION: INSERT/REMOVE WHILE OPERATING MODE RUN	5,00	5,00	Unit		D1.6		BAIK
185		SIMATIC S7-300	STABILIZED POWER SUPPLY PS307 INPUT: 120/230 V AC OUTPUT: DC 24 V DC/2A	5,00	5,00	Unit		D1.7		BAIK
186		SITOP MODULAR	20 STABILIZED POWER SUPPLY INPUT: 120/230 V AC OUTPUT: 24 V DC/20 A	2,00	2,00	Unit		D1.3		BAIK
187		SIMATIC S7-300	DIGITAL INPUT SM 321, OPTICALLY ISOLATED 32DI, 24 V DC, 1 X 40 PIN	2,00	2,00	Unit		D1.6		BAIK
188		SIMATIC S7-300	ANALOG INPUT SM 331, OPTICALLY ISOLATED, 8AI, RESOLUTION 9/12/14 BITS, U/I/THERMOCOUPLE/RESISTANCE INTERRUPT, DIAGNOSTICS; 1X20PIN REMOVE/INSERT W. BACKPLANE BUS	1,00	1,00	Unit		D1.6		BAIK
189		SIMATIC S7-300	FRONT CONNECTOR FOR SIGNAL MODULES WITH SCREW CONTACTS, 20-PIN	9,00	9,00	Unit		D1.6		BAIK
190		SIMATIC S7-300	FRONT CONNECTOR WITH SCREW CONTACTS, 40-PIN	9,00	9,00	Unit		D1.6		BAIK
191		SIMATIC DP	BUS UNIT FOR ET200M F. THE INTEGR.OF TWO 40 MM WIDE I/O SUBMODULES FOR INSERT/REMOVE	7,00	7,00	Unit		D1.6		BAIK
192		SIMATIC DP	BUS UNIT FOR ET200M F. THE INTEGR.OF ONE 80 MM WIDE I/O SUBMODULE FOR INSERT/REMOVE	7,00	7,00	Unit		D1.6		BAIK
193		SIMATIC S7-400	BACK-UP BATTERY 3,6 V/2.3 AH FOR PS 405 4A/10A/20A AND PS 407 4A/10A/20A	10,00	10,00	Unit		D1.6		BAIK
		Spare Part DEG								BAIK
194		Element Filter	1µ, OD: 4,5 inch, D:3,125 inch, Length : 36 inch, max. operating temp.: 2400/1160, 100% Synthetic; Polyster Incinerable - (CO2 + Water): Trace Ash & No Plastic Residue; Ease of Disposal; Coreless No Metal part; No Fibreglass; Media:High Dirt Holding capacity, Brand PECO	76,00	76,00	Ea		Lantai 2		BAIK
		Spare Part for Fire Alarm System								BAIK
195		Lead Acetate tape	300 Ft/Roll	7,00	7,00	Roll		E1.7		BAIK
196		**Suku Cadang Proteksi Petir**								BAIK
197		OBO V20-C/1 280V		10,00	10,00	Ea		D1.7		BAIK
198		Dehn DPA M Cle RJ45B 48		26,00	26,00	Ea		D1.7		BAIK
199		Dehn UGKF BNC		30,00	30,00	Ea		D1.7		BAIK
200		Dehn DGA BNC VCD		10,00	10,00	Ea		D1.7		BAIK
***C. MAINTENANCE, REPAIR, OPERATION* - ASET BELUM TERPASANG (MRO - ABT)**										
1		Safety Valve	SDV Tag Number 81-SDV-1013 (Item 3.2B SDGH906)	2	2,00	Unit		B1.8		BAIK
				1	10,00	Unit		B1.8		BAIK
2		Ball Valve 4"	API Spec 6D, Body/Cover: ASTM A105, Class 600# RF Flange, Full Bore, Trunnion Mounted, Full Open Bore, Lever Operated, API Spec 6D, , Ball: ASTM A105+HCR/ENR, Stem: A182-F6a, Seat Insert. RPTFE Nylon, Seat: ASTM A105, Seal: Viton, Bolting: A193-B7/A	2	2,00	Ea		PALLET		BAIK
3		Plug Valve 4"	ANSI 600 RF, Design by API 6D & API 599, Face ro Face ASME B16.10, Body Construction, Tapered Plug Type, Fire Safe Design & test, API Std 697 / API Spec 6FA, Locking Device, Body/Bonnet/Gland Flange, A216 WCB, Trim : SS-304, Plug/Stem : A351 CF8(SS304), Gasket Flexible Graphite/304, Stem PAcking/Seat : PTFE, Bolt/Nut ASTM A193 Gr.B7/ASTM A194 Gr.2H, Lever CS, Brand GLT	2	2,00	Ea		PALLET		BAIK
1		Level Transmitter	3051S1LD4AA1A1020DFF74CAA7DA1ESL4M5Q4Q8T1, Brand Rosemount	1	1,00	Pcs		A1.9		BAIK
2		Flow Transmitter	3051S1LD44A2A11A1ADA1E5M5Q4Q8T1, Rosemount	1	1,00	Pcs		A1.14		BAIK
3		Transducer		2	2,00	Pcs		B1.10		BAIK
4		Temperature Control Assembly				Ea				BAIK
		Temperature Control Assembly		1	1,00	Ea		A1.17		BAIK
5		Carrier Gas Regulator		1	1,00	Ea		B1.7		BAIK
		Carrier Gas Regulator		1	1,00	Ea		B1.17		BAIK
6		Column set BTU 4 Minute		1	1,00	Ea		A1.17		BAIK
7		PCA Analog I/O (8 In/ 4 Out)		1	1,00	Pcs		A1.18		BAIK
8		Preamplifier Assembly		1	1,00	Ea		A1.18		BAIK
9		Valve, Solenoid, 3-way	ASCO, (CSA, Class 1, Group B	1	1,00	Ea		A1.17		BAIK
10		PCA Sys Intf with 2 Analog Outp F	144172	1	1,00	Ea		A1.17		BAIK
11		P/S 55 W Multi Out		1	1,00	Ea		A1.17		BAIK
12		Kit, 32-bit CPU	Low profile analog board, cables+MON - Requires 32 bit application file (6117 replacement)	1	1,00	Ea		A1.17		BAIK
13		Power Supply 24 VDC		1	1,00	Ea		A1.17		BAIK
14		Kit, Replace aLOI with a standart switch panel, Model 700		1	1,00	Ea		C1.17		BAIK
15		Temperature Transmitter	TSP331.A5.S2.P2.F13.W1.N3.P1.P1.S1.P3.S1.L1.H5.A0.C1.CD.P3.V7.U2, Brand: ABB	1	1,00	Unit		A1.19		BAIK
16		Flammable Gas Detector (IR Point)	Model : PIRECLA1A1W1, Mfr : Det-Tronics	2	2,00	Ea		A1.15		BAIK
17		Sealed Cage External Float Level Switch		1	1,00	Unit		C1.9		BAIK
18		Sample Chamber Assembly		2	2,00	Ea		B1.7		BAIK
19		Sensor block and Detector		2	2,00	Ea		B1.7		BAIK
20		Cadmium (Cd) Source Lamp		1	-	Ea	1,00	B1.6	PENGELUARAN MATERIAL	BAIK
		Cadmium (Cd) Source Lamp		3	3,00	Ea		B1.6		BAIK
21		Copper (Cu) Source Lamp		1	-	Ea	1,00	B1.6	PENGELUARAN MATERIAL	BAIK
				3	3,00	Ea		B1.6		BAIK
22		Filter Element Coalescing		1	1,00	Ea		B1.6		BAIK
				2	2,00	Ea		B1.6		BAIK
23		Filter Element Coalescing		1	1,00	Ea		B1.6		BAIK
				2	2,00	Ea		B1.6		BAIK
24		Nafion Humidifier		2	2,00	Ea		B1.6		BAIK
25		Kit H2S/COS/MESH Wheel & Filter M993		1	1,00	Ea		A1.18		BAIK
26		Flow Restrctor (Colum Block)		2	2,00	Ea		A1.13		BAIK
27		Standart Sensor		3	3,00	Ea		A1.15		BAIK
				0	-	Ea		A1.15		BAIK
28		MS Dryer Assembly	3050-OLV FRU	0	-	Ea		B1.5		

29		Contaminant Trap Catridge (Bottle of 10)		1	1,00	Ea		A1.13		BAIK
30		MS FRU MCU Printed Circuit Assembly		1	1,00	Ea		A1.16		BAIK
31		MS FRU Cell Interface Circuit Assembly		1	1,00	Ea		A1.16		BAIK
32		Liquid Trap Membrane Filter Replacement Kit		1	1,00	Ea		A1.13		BAIK
33		Pneumatic Valve & Selenoid Valve Repair Kit	HCV Tag Number 73-HCV-1020 (Item 3.39A/B+7.29A/B)	1	1,00	Unit		B1.8		BAIK
				2	2,00	Unit		B1.8		BAIK
34		Pneumatic Valve & Selenoid Valve Repair Kit	HCV tag Number 73-HCV-1010 (Item 3.49 A/B+7.29 A/B)	1	1,00	Unit		B1.8		BAIK
				2	2,00	Unit		B1.8		BAIK
35		SPAREPART MODEL RTU 57 (CP 341)		1	1,00	Pcs		C1.5		BAIK
36		SPAREPART MODEL RTU 57 (ET 200M IM 153-2)		1	1,00	Pcs		C1.5		BAIK
37		SPAREPART MODEL RTU 57 (SM 326F, DI 24x24VDC)		1	1,00	Pcs		C1.15		BAIK
39		Inverter	Steca Solarix PI 550	1	1,00	Unit		C1.8		BAIK
40		Flame Gard UV/IR Flame Detector		1	1,00	Unit		A1.15		BAIK
41		261 SBS-interface 230 VAC (A16)		1	1,00	Unit		B1.7		BAIK
42		261 Inverter interface 220 VDC (A17)		1	1,00	Unit		B1.7		BAIK
43		261 Rectifier Interface 220 VDC (A50)		1	1,00	Unit		B1.7		BAIK
44		261 Fusing + Fan Monitoring P3/P5-C-Sunon (A19)		2	2,00	Unit		B1.7		BAIK
45		619 Temparatur Depend Charge UPS2000 ETL (A54)		1	1,00	Unit		B1.10		BAIK
46		145 Wire Parallel Adapter AT 10m STD		1	1,00	Unit		B1.9		BAIK
47		Mark III Filed Connection Board Assy		0	-	Ea		C1.18		
48		Mark III Filed Connection Board Assy		2	2,00	Ea		C1.18		BAIK
49		Seal	S44, 150-1500 VUT 70D MS	2	2,00	Pcs		C1.6		BAIK
50				3	3,00			C1.6		BAIK
51		**Spare Part PCV**								BAIK
52		Gasket	PTFE, 16.75 x 15.75, 0.15 THICK, Plastik, PTFE, Virgin, Indefinite Shelf Life : Purchase and receive per SPP 218 (ECO 14403); Old #10024298	2	2,00	Ea		B1.3		BAIK
53		Packing Spacer LUB	3.00 STEM, 2.00L, 316 Stainless Steel (UNS S31600); Old #10020961	2	2,00	Ea		B1.10		BAIK
54		Packing Spacer LUB	3.00 STEM, 0.50L, 316 Stainless Steel (UNS S31600); Old #10020971	2	2,00	Ea		B1.10		BAIK
55		Packing Spacer LUB	3.00 STEM, 2.00L, 316 Stainless Steel (UNS S31600); Old #10020984	2	2,00	Ea		B1.10		BAIK
56		Packing Spacer LUB	3.00 STEM, 0.25 L, 316 Stainless Steel (UNS S31600);Old #10020783	2	2,00	Ea		B1.10		BAIK
57		Seal, Backup Ring	12.75 Dia, Dash #453, Stretched, Plastic, PTFE, Carbon and Graphite Filled 25%	2	2,00	Ea		B1.3		BAIK
58		Section Seal 48"	Bandlock 2 Large Section Seal	0	-	Unit		C1.1		
59		Section Seal 28"	Bandlock 2 Large Section Seal	2	2,00	Unit		C1.2		BAIK
60		Section Seal 28"	Bandlock 2 Large Section Seal	2	2,00	Unit		C1.2		BAIK
61		Section Seal 36"	36" Bandlock 2 Large Section Seal							BAIK
62		Section Seal 36"	Bandlock 2 Large Section Seal	2	2,00	Unit		C1.1		BAIK
63		OP134, Balanced 38 km, Non Redundant		2	2,00	Unit		C1.3		BAIK
64		Seal	S-36 150 - 1500 VT 70D MS	1	1,00	Ea		A1.18		BAIK
65		DIUT2 Module 60 Channel		2	2,00	Unit		A1.7		BAIK
66		VWIC3 - 1MFT	G703 1-Port #rd Gen Multiflex Trunk Voice/Wan In. Card - G.703	1	1,00	Ea		B1.5		BAIK
67		VWIC3 - 2MFT	G703 VWIC 3 - 2MFT - G703 2-Port 3rd Gen Multiflex Trunk Voice/Wan Int. Card - G703	2	2,00	Ea		B1.5		BAIK
68		Switch 2960	WS-C2960+24TC-L	1	1,00	Ea		B1.9		BAIK
69		Front Panel LCD		2	2,00	Pcs		B1.10		BAIK
70		Electronic Module		2	2,00	Pcs		B1.10		BAIK
71		Simatic S7	Digital Output SM 326, 10 DO; 24V DC, 2A Failsafe Digital Output For Simatic S7F Systems with Diagnost. Interrupt, 1x40 PIN	4	4,00	Unit		C1.5		BAIK
72		Simatic S7	Digital Input SM 326, 24 Di, DC 24V, 40PIN, Failsafe System with Diagnost, Interrupt	2	2,00	Unit		C1.5		BAIK
73		COMMUNICATION PROCESSOR CP 1613 A2 PCI CARD	(32BIT;33MHZ/66MHZ; 3.3V/5V UNIVERSAL KEY) FOR CONNECTION TO IND. ETHERNET (10/100MBIT/S) WITH ITP AND RJ 45 PORT VIA HARDNET-IE S7 AND S7-REDCONNECT. SUPPORT FOR OPERATING SYSTEM SEE SIMATIC NET SW	2	2,00	Unit		C1.16		BAIK
74		SIMATIC S7	ANALOG INPUT SM336 6 AI; 15 BIT; FAILSAFE ANALOG INPUTS FOR SIMATIC SAFETY, WITH HART SUPPORT, UP TO CATEGORY 4 (EN954-1)/ SIL3 (IEC61508)/PLE (ISO13849), 1 X 20 PIN, INCLUDED DUMMY MODULE DM 370	3	3,00	Unit		C1.15		BAIK
75		SIMATIC S7-300	CP341 COMMUNICATION PROCESSOR WITH RS422/485 INTERFACE INCL. CONFIG. PACKAGE ON CD	1	1,00	Unit		C1.16		BAIK
76		SIMATIC S7	MODBUS MASTER V3.1 SINGLE LICENSE F.1 INSTALLATION R-SW, WITHOUT SW AND DOCU., HW-DONGLE, CLASS A, 3 LANGUAGES (G,E,F), EXECUTABLE U. STEP7 FROM V4.2, REFERENCE-HW: CP341 AND CP441-2	2	2,00	Unit		C1.15		BAIK
77		SIMATIC S7	MEMORY CARD FOR S7-400, LONG VERSION, 5V FLASH-EPROM, 16 MBYTES	1	1,00	Unit		C1.16		BAIK
78		COMMUNICATION PROCESSOR CP 1623 PCI EXPRESS X1	(3.3V/12V) FOR CONNECTING WITH IND.ETHERNET(10/100/1000MBIT/S) WITH 2-PORT-SWITCH(RJ45) VIA HARDNET-IE S73 AND S7-REDCONNECT SUPPORT FOR OPERATING SYSTEM SEE SIMATIC NET SW ENABLED FOR SIMATIC NET CD V7.0 HF1 OR HIGHER	3	3,00	Unit		C1.5		BAIK
79		***Suku Cadang Voice Medai Converter***								BAIK
80		FCD-IP/E1/SC85/U/FXO		1	1,00	Ea		C1.7		BAIK
81		FCD-IP/E1/SC85/U/FXS		1	1,00	Ea		C1.7		BAIK

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LAPORAN PEKERJAAN PEMELIHARAAN ASET PENUNJANG INFRASTRUKTUR
GUDANG BOJONEGARA
PERIODE JANUARI 2019

82		Radio Over Internet Protocol (ROIP) Gateway Model IPR 100		4	4,00	Ea		C1.19		BAIK
83		MPPT Solar Charge Controllers from OutBAck Power Technologies (FLEXMAX 80)		3	3,00	Ea		C1.20		BAIK

Lampiran :
1. Jadwal Pemeliharaan Material dan Laporan *Material Handling Equipment*

Bojonegara, 25 Januari 2019

Dibuat	Disetujui
DONNY A / ALI M	ERWIN PERDANA R
Staff Gudang Bojonegara	Kepala Gudang Bojonegara

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LAPORAN KAPASITAS TERSEDIA
GUDANG BOJONEGARA
PERIODE JANUARI 2019

NO.	URAIAN	LUAS	LUAS TOTAL	AREA TERISI	AREA KOSONG	KETERANGAN
1	GUDANG I	10M x 8M	80M2	8M x 8M (64 M2)	4M X4m (16M2)	Tersisa Ruang Kosong 20% atau
						dengan luas 16 m2
2	GUDANG II	5M x 8M	40M2	-	-	PENUH
3	GUDANG III	5M x 8M	40M2	3M X 4M (12 M2)	4M X 7M (28M2)	Tersisa Ruang Kosong 70% atau
						dengan luas 28 m2
4	MEZANIN	10M X 7M	70M2	5M X 7M (35 M2)	5M X 7M (35 M2)	Tersisa Ruang Kosong 50% atau
						dengan luas 35 m2
	JUMLAH LUAS TOTAL GUDANG I,II, III DAN MEZANIN		230 M2			

5	LUAS LAHAN/AREA TERPAKAI	GUDANG I	GUDANG II	GUDANG III	MEZANIN	TOTAL
		64 M2	40 M2	12 M2	35 M2	151 M2

6	LUAS LAHAN/AREA KOSONG	GUDANG I	GUDANG II	GUDANG III	MEZANIN	TOTAL
		16 M2	PENUH	28 M2	35 M2	79 M2

LOKASI : GUDANG BOJONEGARA
PERIODE JANUARI 2019

Bojonegara, 25 Januari 2019

Dibuat	Disetujui
Ali M / Donny Anditia	**Erwin Perdana R**
Staff Gudang Bojonegara	Kepala Gudang Bojonegara

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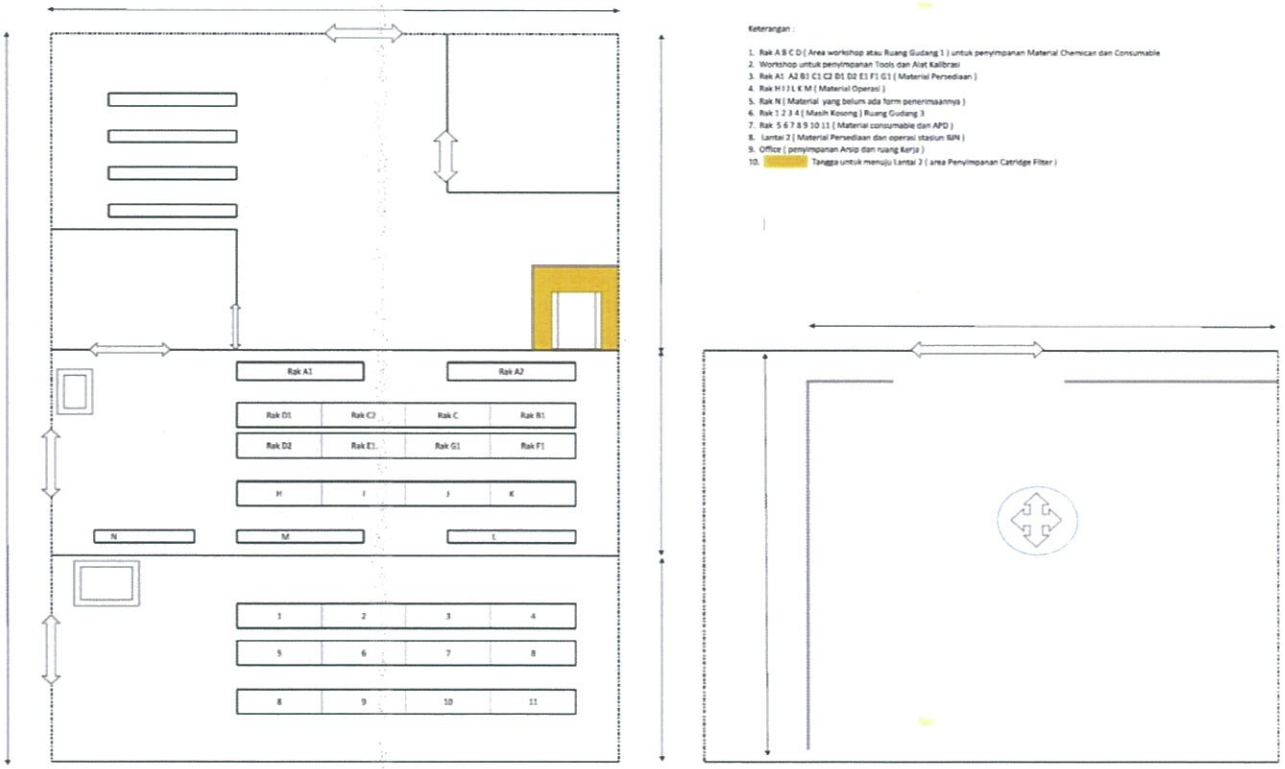
LAYOUT GUDANG BOJONEGARA

LAYOUT GUDANG STASIUN BOJONEGARA



Keterangan :

1. Rak A B C D (Area workshop atau Ruang Gudang 1) untuk penyimpanan Material Chemican dan Consumable
2. Workshop untuk penyimpanan Tools dan Alat Kalibrasi
3. Rak A1 A2 B1 C1 C2 D1 D2 E1 F1 G1 (Material Persediaan)
4. Rak H I J L K M (Material Operasi)
5. Rak N (Material yang belum ada form penerimaannya)
6. Rak 1 2 3 4 (Masih Kosong) Ruang Gudang 3
7. Rak 5 6 7 8 9 10 11 (Material consumable dan APD)
8. Lantai 2 (Material Persediaan dan operasi stasiun BJN)
9. Office (penyimpanan Arsip dan ruang kerja)
10. Tangga untuk menuju Lantai 2 (area Penyimpanan Catridge Filter)

LOKASI : GUDANG BOJONEGARA - CILEGON

JANUARI 2019

Bojonegara, 25 Januari 2019

Dibuat	Disetujui
DONNY A / ALI M	ERWIN PERDANA R
Staff Gudang Bojonegara	Kepala Gudang Bojonegara

REKAPITULASI LAPORAN PERSEDIAAN
PT. PERUSAHAAN GAS NEGARA (Persero) Tbk
LOKASI GAS TRANSMISSION MANAGEMENT
PERIODE : JANUARI 2019

MATERIAL PERSEDIAAN MRO

NO.	JENIS MATERIAL	GUDANG BOJONEGARA						GUDANG PAGARDEWA						GUDANG TERBANGGI BESAR						TOTAL					
		FM	SM	PDS	DS	JUMLAH	NILAI	FM	SM	PDS	DS	JUMLAH	NILAI	FM	SM	PDS	DS	JUMLAH	NILAI	FM	SM	PDS	DS	JUMLAH	NILAI
1	Tubular Good	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2	Cock and Valve	11	-	-	-	11	59,159,940,68	8,0	20,0	-	-	28,0	116,448,255,84	-	10	-	-	10	32,918,600,00	19	30	-	-	49,00	208,526,796,52
3	Fitting and Flange	-	9	-	-	9	53,625,000,00	-	-	-	-	-	-	-	-	-	-	-	-	-	9	-	-	9,00	53,625,000,00
4	Instrument	1,174	58	-	-	1,232	527,822,693,07	606,0	177,0	-	-	783,0	1,061,036,316,41	53	15	-	-	68	160,017,089,79	1,833	250	-	-	2,083,00	1,748,876,099,27
5	Bahan Kimia/ Peralatan	-	-	-	-	-	-	3,0	-	-	-	3,0	31,452,300,00	37	-	-	-	37	166,154,999,88	40	-	-	-	40,00	197,607,299,88
6	Lain-lain	433	397	-	-	830	1,168,128,798,87	824,0	344,0	-	-	1,168,0	999,581,952,21	-	-	-	-	-	-	1,257	741	-	-	1,998,00	2,167,710,751,08
																			JUMLAH	3,149	1,030	-	-	4,179,00	4,376,345,946,75
																			PROSENTASE (%)	75%	25%	0%	0%	100%	

Keterangan :
FM : Fast Moving
SM : Slow Moving
PDS : Potensial Dead Stock
DS : Dead Stock

REKAPITULASI LAPORAN PERSEDIAAN
PT. PERUSAHAAN GAS NEGARA (Persero) Tbk
LOKASI GAS TRANSMISSION MANAGEMENT
PERIODE : JANUARI 2019

MATERIAL PERSEDIAAN MRO-ABT

NO.	JENIS MATERIAL	GUDANG BOJONEGARA						GUDANG PAGARDEWA						GUDANG TERBANGGI BESAR						TOTAL					
		FM	SM	PDS	DS	JUMLAH	NILAI	FM	SM	PDS	DS	JUMLAH	NILAI	FM	SM	PDS	DS	JUMLAH	NILAI	FM	SM	PDS	DS	JUMLAH	NILAI
1	Tubular Good	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2	Cock and Valve	7,00	-	-	-	7,00	111.298.000,00	1,00	4,00	-	-	5,00	140.520.350,00	-	1,00	-	-	1,00	55.000.000,00	8,00	5,00	-	-	13,00	306.818.350,00
3	Fitting and Flange	-	-	-	-	-	-	-	2,00	-	-	2,00	22.328.088,00	-	-	-	-	-	-	-	2,00	-	-	2,00	22.328.088,00
4	Instrument	42,00	12,00	-	-	54,00	1.903.725.136,37	29,00	52,00	-	-	81,00	2.355.270.174,00	1,00	10,00	-	-	11,00	272.595.400,00	72,00	74,00	-	-	146,00	4.531.590.710,37
5	Bahan Kimia/ Peralatan	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6	Lain-lain	54,00	19,00	-	-	73,00	1.838.546.064,01	32,00	22,00	-	-	54,00	3.023.611.740,74	8,00	5,00	-	-	13,00	627.589.817,00	94,00	46,00	-	-	140,00	5.489.747.621,75
																			JUMLAH	174,00	127,00	-	-	301,00	10.350.484.770,12
																			PROSENTASE (%)	58%	42%	0%	0%	100%	

Keterangan :
FM : Fast Moving
SM : Slow Moving
PDS : Potensial Dead Stock
DS : Dead Stock

REKAPITULASI LAPORAN PERSEDIAAN
PT. PERUSAHAAN GAS NEGARA (Persero) Tbk
LOKASI GAS TRANSMISSION MANAGEMENT
PERIODE : JANUARI 2019

MATERIAL PERSEDIAAN EKS-JARINGAN

NO.	JENIS MATERIAL	GUDANG BOJONEGARA	GUDANG PAGARDEWA	GUDANG TERBANGGI BESAR	TOTAL
		JUMLAH	JUMLAH	JUMLAH	
1	Tubular Good	-	-	-	-
2	Cock and Valve	-	-	-	-
3	Fitting and Flange	-	-	-	-
4	Instrument	-	-	-	-
5	Bahan Kimia/ Peralatan	-	-	-	-
6	Lain-lain	-	-	-	-

O-012/0.57/F16

REKAPITULASI LAPORAN PERSEDIAAN
PT. PERUSAHAAN GAS NEGARA (Persero) Tbk
LOKASI GAS TRANSMISSION MANAGEMENT
PERIODE : JANUARI 2019

MATERIAL PERSEDIAAN TERCATAT

NO.	JENIS MATERIAL	GUDANG BOJONEGARA	GUDANG PAGARDEWA	GUDANG TERBANGGI BESAR	TOTAL
		JUMLAH	JUMLAH	JUMLAH	
1	Tubular Good	-	-		-
2	Cock and Valve	-	-		-
3	Fitting and Flange	-	-		-
4	Instrument	-	-		-
5	Bahan Kimia/ Peralatan	-	-		-
6	Lain-lain	-	-		-

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KARYAWAN PT. PGAS SOLUTION, SERVIS DAN KONTRAKTOR
PT. PGAS SOLUTION OPERATION AND MAINTENANCE TRANSMISI
PERIODE 16 DESEMBER 2018 - 15 JANUARY 2019

NO.	PEKERJA	JUMLAH				JUMLAH KECELAKAAN	JUMLAH KORBAN					JUMLAH HARI HILANG					KET
		Tenaga Kerja		Jam Kerja Nyata + Lembur													
		16 Oktober 2018 - 15 November 2018		16 Oktober 2018 - 15 November 2018													
		Lalu	Sekarang	Lalu	Sekarang		Ringan	Sedang	Berat	Mati	Total	Ringan	Sedang	Berat	Mati	Total	
1.1	Teknik dan Operasi	139	139	28,692	30,130												-
1.2	Servis	22	22	3,440	3,312												-
1.3	Kontrak	424	393	99,458	95,977												-
	Jumlah	585	554	131,590	129,419												-

Kumulatif Jam Kerja s/d Bulan Lalu	2,540,798
Kumulatif Jam Kerja s/d Bulan Sekarang	2,670,217
Terhitung Mulai Tanggal	1 January 2016

Jam Kerja Aman : Jam kerja tanpa keCelakaan yang berakibat hilangnya hari kerja.

Catatan :

Teknik dan Operasi	:	Pekerja Operasi dan Pemeliharaan Jaringan Pipa Gas dan Fasilitasnya
Servis	:	Pegawai Keuangan, Umum, Pengadaan, Administrasi dan SDM (semua penunjang, termasuk OB dan seCurity)
Kontrak	:	Pegawai Harian, Kontrak, Konsultan, Kontraktor dll.

Jakarta, 28 January 2018

PT PGAS Solution
Project Manager MARIO

Dody Tusandya

Unjuk Kerja K3PL (HSE PerformanCe StatistiC)

Tahun : 2018
Laporan Bulan : 16 Desember 2018 - 15 January 2019
Lokasi : Operasi dan Pemeliharaan Transmisi

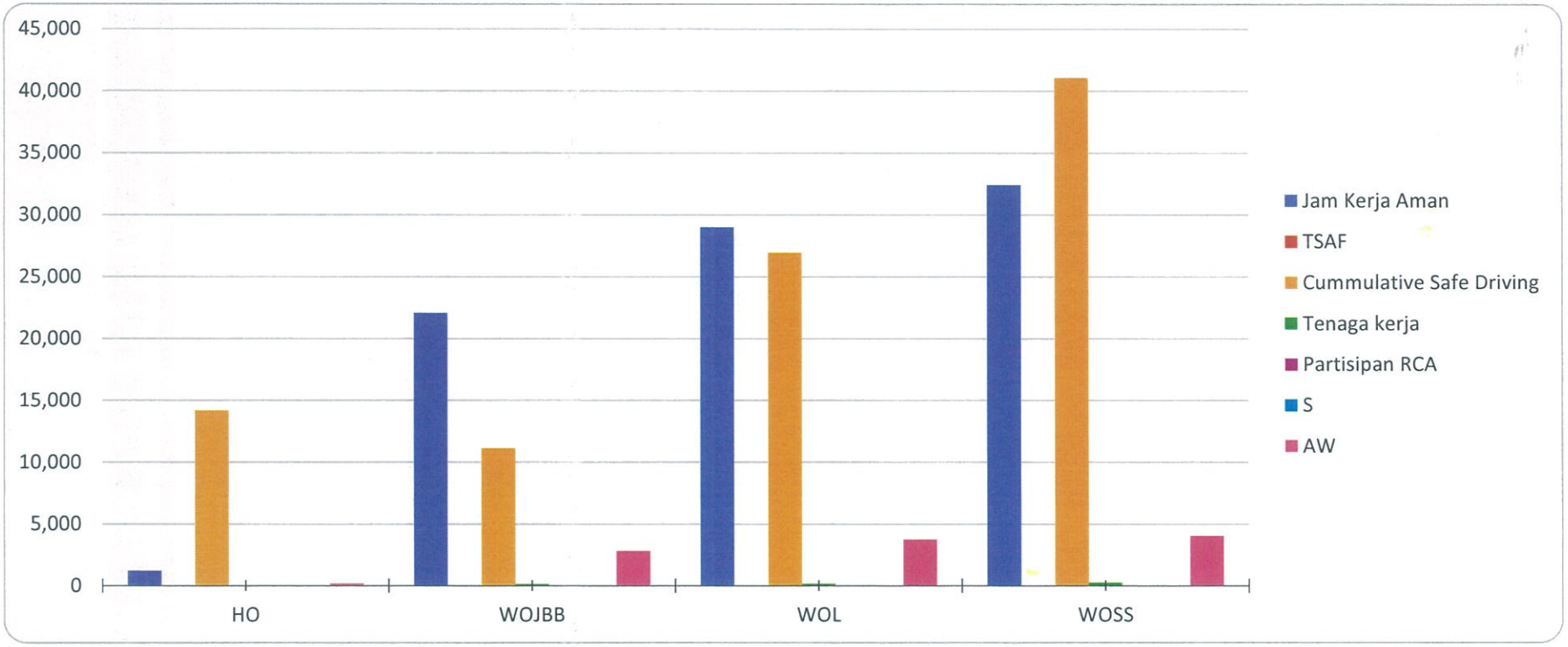
Tanggal Laporan : 25 January 2019
Disampaikan Oleh : Mardiansyah
Ditinjau Oleh : Dody Tusandy

Keterangan :
B : Bulan
T : Tahun
K : Komulatif

No	Keterangan	Teknik			ServiCe			Kontrak			Komulatif		
		B	T	K	B	T	K	B	T	K	B	T	K
1	Kematian Fatality	0	0	0	0	0	0	0	0	0	0	0	0
2	KeCelakaan Berat (CaCat permanen) Lost Time Injuries with permanent disability (LTI)	0	0	0	0	0	0	0	0	0	0	0	0
3	KeCelakaan Sedang Lost Time without disability	0	0	0	0	0	0	0	0	0	0	0	0
4	Total LTI	0	0	0	0	0	0	0	0	0	0	0	0
5	Hari Kerja Hilang Lost Work Day	0	0	0	0	0	0	0	0	0	0	0	0
6	Frekuensi LTI (LTIF) Lost Time Injury FrequenCy	0	0	0	0	0	0	0	0	0	0	0	0
7	Tingkat Keparahan Severity rate	0	0	0	0	0	0	0	0	0	0	0	0
8	Kasus Keparahan Severity Case	0	0	0	0	0	0	0	0	0	0	0	0
9	Jumlah Kejadian Dampak Akibat KeCelakaan Number of RestriCted Work Case	0	0	0	0	0	0	0	0	0	0	0	0
10	Jumlah Pengobatan Medis MediCal Treatment Case	0	0	0	0	0	0	0	0	0	0	0	0
11	Total KeCelakaan Ringan (RWC + WMC)	0	7	7	0	0	0	0	0	0	0	7	7
12	Laporan KeCelakaan Reportable ACCident	0	1	1	0	0	0	0	0	0	0	1	1
13	Pertolongan Pertama Pada KeCelakaan (P3K) First Aid Injuries	0	2	2	0	0	0	0	0	0	0	2	2
14	Hampir Celaka Near Misses	0	13	13	0	0	0	0	1	1	0	14	14
15	Kebakaran / Ledakan Fire / explosions	0	0	0	0	0	0	0	0	0	0	0	0
16	Kerusakan Properti Minor (≤ 50 juta) Minor Property Damage	0	0	0	0	0	0	0	0	0	0	0	0
17	Kerusakan Properti Major (> 50 juta) Major Property Damage	0	1	1	0	0	0	0	0	0	0	1	1
18	KeCelakaan Kendaraan VehiCle ACCident	0	0	0	0	0	0	0	0	0	0	0	0
19	Total Jarak Tempuh (km) Total DistanCe Travel	93,211	3,539,849	3,633,060	0	0	286,795	0	0	384,353	93,211	3,539,849	4,304,208
20	Total Jarak Berkendaraan Aman (km) Safe Driving (km)	93,211	3,539,849	3,633,060	0	0	286,795	0	0	384,353	93,211	3,539,849	4,304,208
21	Frekuensi KeCelakaan Kendaraan (per 100,000 km) VehiCle ACCident FrequenCy	0	0	0	0	0	0	0	0	0	0	0	0
22	Kejadian Keamanan SeCurity InCidents	0	2	2	0	0	0	0	0	0	0	2	2
23	Total Ketidakhadiran Karena S (TSA) Total SiCkness AbsenCe	0	69	69	0	81	81	9	53	62	9	203	212
24	Frekuensi Total Ketidakhadiran Karena S (TSAF) Total SiCkness AbsenCe FrequenCy	0.856	0.015	0.871	0.000	1.330	1.330	0.319	1.128	1.447	0.084	0.020	0.020
25	Total Karyawan aktual Daftar SDM Total of Employees	139	139	139	22	22	22	393	393	393	554	554	554
26	Total Hari Kerja Total Available Work Day	2,738	434,113	436,851	414	324,795	325,209	7,553	282,101	289,654	10,705	1,041,009	1,051,714
27	Jam Kerja Manhours	30,130	847,467	877,597	3,312	393,371	396,683	95,977	1,215,815	1,311,792	129,419	2,456,653	2,586,072
28	Jam Kerja Aman Safe Manhours	30,130	847,467	877,597	3,312	393,371	396,683	95,977	1,215,815	1,311,792	129,419	2,456,653	2,586,072

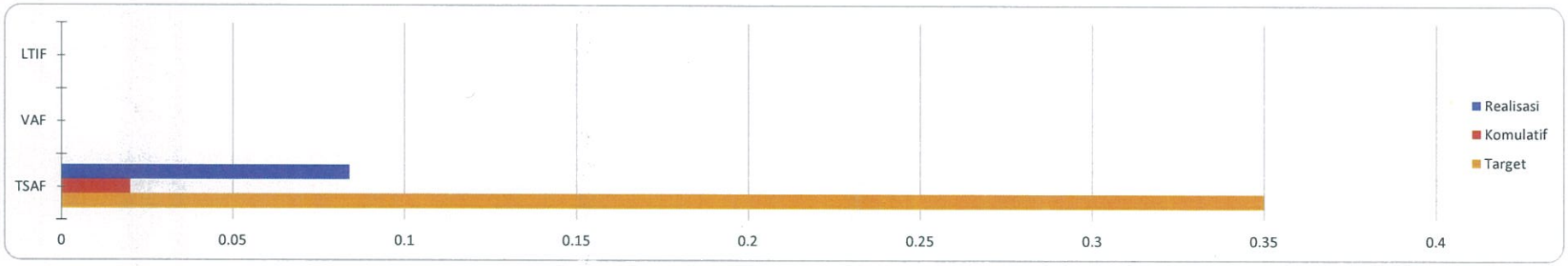
HSSE PERFORMANCE PERIODE 16 Desember 2018 - 15 January 2018

No.	Wilayah	Jam Kerja Aman	TSAF	Cummulative Safe Driving	Tenaga kerja	Partisipan RCA	S	AW
1	HO	1,216	0	14,161	8	100%	0	152
2	WOJBB	22,064	0	11,097	137	100%	0	2,802
3	WOL	28,984	0	26,927	169	100%	8	3,726
4	WOSS	32,402	0.0	41,026	240	100%	9	4,025



KeCelakaan Kerja

	Realisasi	Komulatif	Target
LTIF	0	0	0
VAF	0	0	0
TSAF	0.08	0.02	0.35



2017	Januari	Februari	Maret	April	Mei	Juni	Juli	Agustus	September	OCtober	Nopember	Desember
JKA	33,355	37,296	33,352	87,276	103,241	106,200	86,069	90,771	90,662	87,632	89,793	85,555
JBA	116,795	98,722	109,164	159,657	102,942	86,542	90,269	149,550	196,362	102,432	95,814	101,680
Komulatif JKA	920,520	957,816	991,168	1,078,424	1,181,665	1,287,865	1,373,934	1,464,705	1,555,367	1,642,999	1,732,552	1,818,107
Komulatif JBA	1,540,477	1,639,199	1,748,363	1,908,020	2,010,962	2,097,504	2,187,773	2,337,323	2,533,685	2,636,117	2,721,931	2,823,133

2018	Januari	Februari	Maret	April	Mei	Juni	Juli	Agustus	September	OCtober	Nopember	Desember
JKA	84,204	85,204	70,504	80,924	78,721	79,160	76,641	82,780	86,295	84,145	101,001	131,590
JBA	95,906	95,906	86,868	80,361	96,326	75,301	93,693	89,411	109,016	106,643	96,742	97,180
Komulatif JKA	1,902,311	1,902,311	2,058,427	2,139,351	2,218,072	2,297,232	2,373,873	2,456,653	2,542,948	2,540,798	2,557,664	2,588,243
Komulatif JBA	2,919,039	3,010,120	3,096,988	3,177,349	3,273,675	3,348,976	3,442,669	3,532,080	3,551,685	3,549,312	3,539,411	3,539,849

2019	Januari	Februari	Maret	April	Mei	Juni	Juli	Agustus	September	OCtober	Nopember	Desember
JKA	129,419											
JBA	93,211											
Komulatif JKA	2,586,072											
Komulatif JBA	4,304,208											

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LAPORAN JAM KERJA AMAN
OPERASI DAN PEMELIHARAAN TRANSMISI
PERIODE 16 DESEMBER 2018 - 15 JANUARY 2019

K : Komulatif

No	Keterangan	Komulatif		
		B	T	K
1	Kematian Fatality	0	0	0
2	KeCelakaan Berat (CaCat permanen) Lost Time Injuries with permanent disability (LTI)	0	0	0
3	KeCelakaan Sedang Lost Time without disability	0	0	0
4	Total LTI	0	0	0
5	Hari Kerja Hilang Lost Work Day	0	0	0
6	Frekuensi LTI (LTIF) Lost Time Injury FrequenCy	0	0	0
7	Tingkat Keparahan Severity rate	0	0	0
8	Kasus Keparahan Severity Case	0	0	0
9	Jumlah Kejadian Dampak Akibat KeCelakaan Number of RestriCted Work Case	0	0	0
10	Jumlah Pengobatan Medis MediCal Treatment Case	0	0	0
11	Total KeCelakaan Ringan (RWC + WMC)	0	7	7
12	Laporan KeCelakaan Reportable ACCident	0	1	1
13	Pertolongan Pertama Pada KeCelakaan (P3K) First Aid Injuries	0	2	2
14	Hampir Celaka Near Misses	0	14	14
15	Kebakaran / Ledakan Fire / explosions	0	0	0
16	Kerusakan Properti Minor (≤ 50 juta) Minor Property Damage	0	0	0
17	Kerusakan Properti Major (> 50 juta) Major Property Damage	0	1	1
18	KeCelakaan Kendaraan VehiCle ACCident	0	0	0
19	Total Jarak Tempuh (km) Total DistanCe Travel	93,211	3,539,849	4,304,208
20	Total Jarak Berkendaraan Aman (km) Safe Driving (km)	93,211	3,539,849	4,304,208
21	Frekuensi KeCelakaan Kendaraan (per 100,000 km) VehiCle ACCident FrequenCy	0	0	0
22	Kejadian Keamanan SeCurity InCidents	0	2	2
23	Total Ketidakhadiran Karena S (TSA) Total SiCkness AbsenCe	9	203	212
24	Frekuensi Total Ketidakhadiran Karena S (TSAF) Total SiCkness AbsenCe FrequenCy	0	0	0
25	Total Karyawan aktual Daftar SDM Total of Employees	554	554	554
26	Total Hari Kerja Total Available Work Day	10,705	1,041,009	1,051,714
27	Jam Kerja Manhours	129,419	2,456,653	2,586,072
28	Jam Kerja Aman Safe Manhours	129,419	2,456,653	2,586,072

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LAPORAN JAM KERJA AMAN
OPERASI DAN PEMELIHARAAN TRANSMISI
PERIODE 16 DESEMBER 2018 - 15 JANUARY 2019

NO.	PEKERJA	JUMLAH			
		Tenaga Kerja		Jam Kerja Nyata + Lembur	
		16 Oktober 2018 - 15 November 2018		16 Oktober 2018 - 15 November 2018	
		Lalu	Sekarang	Lalu	Sekarang
1.1	Teknik dan Operasi	139	139	28,692	30,130
1.2	Servis	22	22	3,440	3,312
1.3	Kontrak	424	393	99,458	95,977
	Jumlah	585	554	131,590	129,419

Kumulatif Jam Kerja s/d Bulan Lalu	2,540,798
Kumulatif Jam Kerja s/d Bulan Sekarang	2,670,217
Terhitung Mulai Tanggal	1 January 2016

Jam Kerja Aman : Jam kerja tanpa keCelakaan yang berakibat hilangnya hari kerja.

Catatan :

Teknik dan Operasi	: Pekerja Operasi dan Pemeliharaan Jaringan Pipa Gas dan Fasilitasnya
Servis	: Pegawai Keuangan, Umum, Pengadaan, Administrasi dan SDM (semua penunjang, termasuk OB dan seCurity)
Kontrak	: Pegawai Harian, Kontrak, Konsultan, Kontraktor dll.

LAPORAN MANAJEMEN AKTIFITAS PIHAK KETIGA

REGIONAL TRANSMISI

JANUARI 2019

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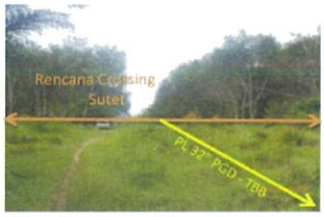
0	04 Februari 2019	Issued for Review			
			NFK	ABD	AST
Rev	Tanggal	Deskripsi	Dibuat	Diperiksa	Disetujui

No. Dokumen :	Revisi : **0**

NO	LOKASI KEGIATAN	PIHAK KETIGA	DESKIRPSI KEGIATAN	DOKUMENTASI	REKOMENDASI
AREA TRANSMISI SUMATERA SELATAN					
SECTION 1					
	Tidak ada aktifitas pihak ketiga				
SECTION 2					
1	KP 00+600	Kepala Desa Pagardewa	Pekerjaan perkerasan dan Pengecoran Jalan Dusun 4 Blok A ke Blok B Desa Pagardewa. Sebagian ROW sudah di cor oleh Desa ± 15 meter dengan lebar 4 m. Tepat diatas crown pipa dengan lebar 10 meter belum dilakukan pengecoran, dikarenakan menunggu perkuatan/pengecoran dari PGN.		Agar dilakukan analisa beban yang akan diterima pipa berkaitan dengan tonnase kendaraan yang akan melewati jalan tersebut.
2	KP 14+700	PT. Servo Marga Sejahtera	Pembuatan jalur rel kereta api untuk mengangkut batu bara		Agar dilakukan monitoring dan pengawasan kondisi di lapangan. Berkoordinasi dengan pihak ketiga terkait update pekerjaan. Harus dilakuakan kajian/analisa khusus terkait efek pembuatan jalur kereta tersebut.

3	KP 19+500	PUPR Muara Enim	Crossing rencana pembuatan jalan lintas kecamatan dari desa Aur menuju kota Muara enim. Pada ROW PGN, di titik yang akan crosing sudah dilakukan perkerasan (Concrete Slabe). Update sampai tanggal 25 Januari 2019 aktivitas pihak ketiga tersebut sedang melakukan penghamparan batu pada jalan yang akan di buat dan sudah melewati ROW PGN, sedangkan tepat diatas ROW PGN belum dilakukan penghamparan batu.		Agar dilakukan kajian analisa beban yang akan diterima pipa di lokasi crossing tersebut.
4	KP 47 - KP 56	PT. Gemilang Artha Makmur	Rencana pembuatan jalan untuk angkutan Batu Bara oleh PT. Gemilang Artha Makmur yang menggunakan ROW PGN di KP 47 - KP 56 PGD-GRS.		Agar dilakukan kajian analisa beban yang akan diterima pipa di lokasi crossing tersebut.
5	KP 72+050	Desa Penandingan	Crossing jalan setapak (kendaraan roda 2 dan gerobak untuk mengangkut hasil panen kebun), jalan setapak berupa coran/concrete dengan lebar 2 meter dan tebal 0,15 meter.		Dilakukan monitoring dan pengawasan secara berkala dan pastikan tidak ada kendaraan roda 4 yang melewati crossing tersebut (berkaitan dengan tonnase)

6	KP 84+600	Desa Danau baru	Pekerjaan Pembangunan jalan titian cor beton / jalan setapak gantung dengan ketinggian ± 1,5 meter dari permukaan tanah untuk menuju lahan pertanian masyarakat Desa Danau Baru, Kecamatan Sungai rotan. Namun pekerjaan jalan tersebut belum mencapai ROW PGN. Menurut informasi Rencana kegiatan akan dilanjutkan pada bulan Maret 2019		Disarankan untuk pembuatan Warning Sign (WS) di lokasi tersebut.
SECTION 3					
1	KP 24+500	PT PLN	Crossing instalasi jaringan kabel SUTET kapasitas tegangan 275 kV. Rencana pemasangan kabel semester 1 tahun 2019. Jarak tower SUTET ke ROW PGN sepanjang 25m.		Telah dilakukan pengukuran potensial pipa di titik crossing. Akan dilakukan kembali pengukuran potensial di lokasi tersebut apabila SUTET telah beroperasi.
STATION GRISSIK					
	Tidak ada aktifitas pihak ketiga				
STATION TALANG DUKU					
	Tidak ada aktifitas pihak ketiga				
STATION PENERIMA GAS PAGARDEWA					
	Tidak ada aktifitas pihak ketiga				
STATION METERING PAGARDEWA					
	Tidak ada aktifitas pihak ketiga				
STATION KOMPRESOR PAGARDEWA					

	Tidak ada aktifitas pihak ketiga
AREA TRANSMISI LAMPUNG	
SECTION 4	
	Tidak ada aktifitas pihak ketiga
SECTION 5	
	Tidak ada aktifitas pihak ketiga
SECTION 6	
	Tidak ada aktifitas pihak ketiga
STATION LABUHAN MARINGGAI	
	Tidak ada aktifitas pihak ketiga
STATION TERBANGGI BESAR	
	Tidak ada aktifitas pihak ketiga
AREA TRANSMISI JAWA BAGIAN BARAT	
OFFSHORE LBM - BJN	
	Tidak ada aktifitas pihak ketiga
OFFSHORE LBM - MBK	
	Tidak ada aktifitas pihak ketiga
STATION BOJONEGARA	
	Tidak ada aktifitas pihak ketiga
STATION MUARA BEKASI	
	Tidak ada aktifitas pihak ketiga