

Project: CENDANA
 Location: SEBERANG ULU II, PALEMBANG
 Contract:
 Engineer: QURATUL AINI H
 Filename: 85% Siang

ETAP
 12.6.0H

Study Case: LF

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Branch Losses Summary Report

CKT / Branch ID	From-To Bus Flow		To-From Bus Flow		Losses		% Bus Voltage		Vd Drop in Vmag
	MW	Mvar	MW	Mvar	kW	kvar	From	To	
Cable5	-3.768	-2.435	3.771	2.437	3.6	1.9	93.3	93.4	0.09
Cable5a	3.725	2.408	-3.722	-2.406	2.9	1.5	93.3	93.3	0.07
T U.286 / PDX066	0.043	0.028	-0.041	-0.026	1.3	2.0	93.3	89.4	3.97
Cable2	-0.221	-0.143	0.221	0.143	0.0	0.0	93.3	93.3	0.00
Cable3	0.136	0.088	-0.136	-0.088	0.0	0.0	93.3	93.3	0.00
T U.408/PD0337	0.085	0.055	-0.082	-0.051	2.6	3.9	93.3	89.3	3.97
T U.90/PD0089	0.136	0.088	-0.132	-0.082	4.2	6.3	93.3	89.3	3.97
Cable6	-3.499	-2.262	3.501	2.263	1.9	1.0	93.2	93.3	0.05
Cable7	0.268	0.173	-0.268	-0.173	0.0	0.0	93.2	93.2	0.00
Cable8	3.061	1.979	-3.060	-1.978	1.9	1.0	93.2	93.2	0.06
T U.001/PD0001	0.170	0.110	-0.165	-0.102	5.2	7.9	93.2	89.3	3.97
Cable45	2.405	1.555	-2.404	-1.555	1.2	0.6	93.4	93.4	0.04
Cable86	0.749	0.484	-0.749	-0.484	0.0	0.0	93.4	93.4	0.00
Cable87	2.806	1.814	-2.806	-1.814	0.4	0.2	93.4	93.4	0.01
SKTM1	-2.433	-1.573	2.433	1.573	0.1	0.1	93.4	93.4	0.00
SKTM3	-2.433	-1.573	2.433	1.573	0.1	0.1	93.4	93.4	0.00
SKTM4	-2.433	-1.573	2.433	1.573	0.1	0.1	93.4	93.4	0.00
SKTM6	-2.433	-1.573	2.433	1.573	0.1	0.1	93.4	93.4	0.00
T U.168/PD0163	0.268	0.173	-0.260	-0.161	8.2	12.4	93.2	89.2	3.97
Cable10	2.923	1.890	-2.922	-1.889	1.8	0.9	93.2	93.1	0.05
T U.530/PD0445	0.136	0.088	-0.132	-0.082	4.2	6.3	93.2	89.2	3.97
Cable12	2.837	1.834	-2.835	-1.833	1.7	0.9	93.1	93.1	0.05
T U.420/PD0347	0.085	0.055	-0.082	-0.051	2.6	3.9	93.1	89.1	3.97
Cable13	2.699	1.745	-2.697	-1.744	1.9	1.0	93.1	93.0	0.06
T U.136/PD0132	0.136	0.088	-0.132	-0.082	4.2	6.3	93.1	89.1	3.98
Cable14	2.527	1.634	-2.526	-1.633	1.3	0.7	93.0	93.0	0.05
T U.19/PD0019	0.170	0.110	-0.165	-0.102	5.3	7.9	93.0	89.0	3.98
Cable15	2.390	1.546	-2.390	-1.545	0.1	0.1	93.0	93.0	0.00
T U.520/PD0437	0.136	0.088	-0.132	-0.082	4.2	6.3	93.0	89.0	3.98
Cable16	0.272	0.176	-0.272	-0.176	0.0	0.0	93.0	92.9	0.00
Cable19	1.982	1.282	-1.981	-1.281	0.4	0.2	93.0	92.9	0.02
T U.132/PD0128	0.136	0.088	-0.132	-0.082	4.2	6.3	93.0	89.0	3.98
Cable18	0.136	0.088	-0.136	-0.088	0.0	0.0	92.9	92.9	0.00
T U.417/PD0345	0.136	0.088	-0.132	-0.082	4.2	6.3	92.9	89.0	3.98
T U.133/PD0129	0.136	0.088	-0.132	-0.082	4.2	6.3	92.9	89.0	3.98

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CKT / Branch ID	From-To Bus Flow		To-From Bus Flow		Losses		% Bus Voltage		Vd % Drop in Vmag
	MW	Mvar	MW	Mvar	kW	kvar	From	To	
Cable22	1.846	1.193	-1.845	-1.193	0.9	0.5	92.9	92.9	0.04
T U.113/PD0109	0.136	0.088	-0.132	-0.082	4.2	6.3	92.9	89.0	3.98
Cable25	1.675	1.083	-1.674	-1.083	0.7	0.4	92.9	92.9	0.04
T U.494/PD2	0.170	0.110	-0.165	-0.102	5.3	7.9	92.9	88.9	3.98
Cable26	0.212	0.137	-0.212	-0.137	0.0	0.0	92.9	92.9	0.00
Cable28	1.462	0.945	-1.461	-0.945	0.1	0.1	92.9	92.8	0.01
T U.226/PD0221	0.212	0.137	-0.206	-0.128	6.6	9.9	92.9	88.9	3.98
Cable29	1.377	0.890	-1.376	-0.890	0.3	0.2	92.8	92.8	0.02
T U.190/PD0185	0.085	0.055	-0.082	-0.051	2.6	4.0	92.8	88.9	3.98
Cable30	1.291	0.835	-1.291	-0.835	0.1	0.0	92.8	92.8	0.01
T U.494/PD0416	0.085	0.055	-0.082	-0.051	2.6	4.0	92.8	88.8	3.98
Cable31	0.042	0.027	-0.042	-0.027	0.0	0.0	92.8	92.8	0.00
Cable33	1.249	0.808	-1.249	-0.808	0.1	0.0	92.8	92.8	0.01
Cable32	0.021	0.013	-0.021	-0.013	0.0	0.0	92.8	92.8	0.00
T U.256/PDX051	0.021	0.014	-0.021	-0.013	0.7	1.0	92.8	88.8	3.98
T U.02/PD2	0.021	0.013	-0.021	-0.013	0.1	0.1	92.8	92.3	0.48
Cable34	1.079	0.698	-1.079	-0.698	0.1	0.1	92.8	92.8	0.01
T U.02/PD0002	0.170	0.110	-0.165	-0.102	5.3	7.9	92.8	88.8	3.98
Cable35	0.943	0.610	-0.943	-0.610	0.1	0.0	92.8	92.8	0.01
T U.87/PD0086	0.136	0.088	-0.132	-0.082	4.2	6.3	92.8	88.8	3.99
Cable37	0.807	0.522	-0.807	-0.522	0.1	0.1	92.8	92.8	0.01
T U.165/PD0161	0.136	0.088	-0.132	-0.082	4.2	6.3	92.8	88.8	3.99
Cable38	0.595	0.385	-0.595	-0.385	0.0	0.0	92.8	92.8	0.01
T U.34/PD0034	0.212	0.137	-0.206	-0.128	6.6	9.9	92.8	88.8	3.99
Cable40	0.382	0.247	-0.382	-0.247	0.0	0.0	92.8	92.8	0.00
T U.153/PD0149	0.212	0.137	-0.206	-0.128	6.6	9.9	92.8	88.8	3.99
Cable39	0.212	0.137	-0.212	-0.137	0.0	0.0	92.8	92.8	0.00
T U.243/PD0236	0.170	0.110	-0.165	-0.102	5.3	7.9	92.8	88.8	3.99
T U.3/PD0003	0.212	0.137	-0.206	-0.128	6.6	9.9	92.8	88.8	3.99
Cable46	0.170	0.110	-0.170	-0.110	0.0	0.0	93.4	93.4	0.00
Cable47	2.098	1.356	-2.097	-1.356	0.9	0.5	93.4	93.3	0.04
T U.409/PD0338	0.136	0.088	-0.132	-0.082	4.2	6.3	93.4	89.4	3.97
T U.409/PD2	0.170	0.110	-0.165	-0.102	5.2	7.8	93.4	89.4	3.97
Cable48	0.777	0.502	-0.777	-0.502	0.1	0.0	93.3	93.3	0.01
Cable49	1.235	0.799	-1.235	-0.798	0.6	0.3	93.3	93.3	0.04
T U.410/PD0339	0.085	0.055	-0.082	-0.051	2.6	3.9	93.3	89.4	3.97
Cable50	0.334	0.216	-0.334	-0.216	0.0	0.0	93.3	93.3	0.01

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CKT / Branch ID	From-To Bus Flow		To-From Bus Flow		Losses		% Bus Voltage		Vd % Drop in Vmag
	MW	Mvar	MW	Mvar	kW	kvar	From	To	
Cable51	0.442	0.286	-0.442	-0.286	0.0	0.0	93.3	93.3	0.01
Cable52	0.170	0.110	-0.170	-0.110	0.0	0.0	93.3	93.3	0.00
Cable53	0.272	0.176	-0.272	-0.176	0.0	0.0	93.3	93.3	0.00
T U.430/PD0357	0.170	0.110	-0.165	-0.102	5.2	7.8	93.3	89.4	3.97
Cable54	-0.136	-0.088	0.136	0.088	0.0	0.0	93.3	93.3	0.00
T U.316/PD0276	0.136	0.088	-0.132	-0.082	4.2	6.3	93.3	89.4	3.97
Cable95	-0.349	-0.226	0.349	0.226	0.0	0.0	93.3	93.3	0.00
SKTM.GIANT	0.349	0.226	-0.349	-0.226	0.0	0.0	93.3	93.3	0.00
Cable56	0.198	0.128	-0.198	-0.128	0.0	0.0	93.3	93.3	0.01
T U.114/PD0110	0.136	0.088	-0.132	-0.082	4.2	6.3	93.3	89.4	3.97
Cable57	0.064	0.041	-0.064	-0.041	0.0	0.0	93.3	93.3	0.00
T U.122/PD0118	0.134	0.087	-0.130	-0.081	4.1	6.1	93.3	89.4	3.92
Cable58	0.043	0.028	-0.043	-0.028	0.0	0.0	93.3	93.3	0.00
T U.270/PDX057	0.021	0.014	-0.021	-0.013	0.7	1.0	93.3	89.3	3.97
Cable59	0.021	0.014	-0.021	-0.014	0.0	0.0	93.3	93.3	0.00
T U.320/PDX079	0.021	0.014	-0.021	-0.013	0.7	1.0	93.3	89.3	3.97
T U.378/PDX116	0.021	0.014	-0.021	-0.013	0.7	1.0	93.3	89.3	3.97
Cable60	0.170	0.110	-0.170	-0.110	0.0	0.0	93.3	93.3	0.00
Cable62	0.894	0.578	-0.894	-0.578	0.2	0.1	93.3	93.3	0.02
T U.108/PD01042	0.170	0.110	-0.165	-0.102	5.2	7.8	93.3	89.3	3.97
Cable61	0.085	0.055	-0.085	-0.055	0.0	0.0	93.3	93.3	0.00
T U.521/PD0438	0.085	0.055	-0.082	-0.051	2.6	3.9	93.3	89.3	3.97
T U.284/PD0261	0.085	0.055	-0.082	-0.051	2.6	3.9	93.3	89.3	3.97
Cable64	1.410	0.912	-1.409	-0.911	0.6	0.3	93.3	93.2	0.04
Cable65	-0.686	-0.443	0.686	0.443	0.2	0.1	93.3	93.3	0.02
T U.115/PD0111	0.170	0.110	-0.165	-0.102	5.2	7.8	93.3	89.3	3.97
Cable66	1.324	0.856	-1.324	-0.856	0.1	0.1	93.2	93.2	0.01
T U.402/PD0332	0.085	0.055	-0.082	-0.051	2.6	3.9	93.2	89.3	3.97
Cable67	1.239	0.801	-1.238	-0.801	0.9	0.5	93.2	93.2	0.06
T U.522/PD0439	0.085	0.055	-0.082	-0.051	2.6	3.9	93.2	89.3	3.97
Cable68	1.153	0.746	-1.153	-0.746	0.5	0.3	93.2	93.1	0.04
TU.394/PD0324	0.085	0.055	-0.082	-0.051	2.6	3.9	93.2	89.2	3.97
Cable69	1.068	0.691	-1.067	-0.690	0.4	0.2	93.1	93.1	0.03
T U.547/PD0596	0.085	0.055	-0.082	-0.051	2.6	3.9	93.1	89.2	3.97
Cable70	0.982	0.635	-0.982	-0.635	0.1	0.1	93.1	93.1	0.01
T U.489/PD0411	0.085	0.055	-0.082	-0.051	2.6	3.9	93.1	89.1	3.97
Cable71	0.961	0.622	-0.961	-0.622	0.1	0.1	93.1	93.1	0.01

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CKT / Branch ID	From-To Bus Flow		To-From Bus Flow		Losses		% Bus Voltage		Vd % Drop in Vmag
	MW	Mvar	MW	Mvar	kW	kvar	From	To	
T U.302/PDX075	0.021	0.014	-0.021	-0.013	0.7	1.0	93.1	89.1	3.98
Cable72	0.825	0.534	-0.825	-0.533	0.1	0.1	93.1	93.1	0.01
T U.221/PD0216	0.136	0.088	-0.132	-0.082	4.2	6.3	93.1	89.1	3.98
Cable73	0.689	0.446	-0.689	-0.445	0.1	0.1	93.1	93.1	0.01
T U.157/PD0153	0.136	0.088	-0.132	-0.082	4.2	6.3	93.1	89.1	3.98
Cable74	0.604	0.390	-0.603	-0.390	0.1	0.1	93.1	93.0	0.02
T U.393/PD0323	0.085	0.055	-0.082	-0.051	2.6	3.9	93.1	89.1	3.98
Cable75	0.391	0.253	-0.391	-0.253	0.0	0.0	93.0	93.0	0.01
T U.63/PD0063	0.212	0.137	-0.206	-0.128	6.6	9.9	93.0	89.1	3.98
Cable76	0.306	0.198	-0.306	-0.198	0.0	0.0	93.0	93.0	0.01
T U.484/PD0406	0.085	0.055	-0.082	-0.051	2.6	3.9	93.0	89.1	3.98
Cable77	0.136	0.088	-0.136	-0.088	0.0	0.0	93.0	93.0	0.00
T U.196/PD0191	0.170	0.110	-0.165	-0.102	5.3	7.9	93.0	89.0	3.98
T U.150/PD0146	0.136	0.088	-0.132	-0.082	4.2	6.3	93.0	89.0	3.98
Cable78	-0.771	-0.498	0.771	0.499	0.2	0.1	93.3	93.3	0.02
T U.115/PD3	0.085	0.055	-0.082	-0.051	2.6	3.9	93.3	89.3	3.97
Cable79	-0.907	-0.587	0.907	0.587	0.2	0.1	93.3	93.3	0.02
T U.54/PD0054	0.136	0.088	-0.132	-0.082	4.2	6.3	93.3	89.4	3.97
Cable43	0.536	0.347	-0.536	-0.347	0.0	0.0	93.3	93.3	0.00
Cable80	-1.792	-1.159	1.792	1.159	0.3	0.2	93.3	93.4	0.02
Cable81	-1.928	-1.247	1.929	1.247	0.5	0.3	93.4	93.4	0.02
T U.66/PD066	0.136	0.088	-0.132	-0.082	4.2	6.3	93.4	89.4	3.97
Cable82	-2.099	-1.357	2.099	1.357	0.1	0.1	93.4	93.4	0.01
Cable83	0.170	0.110	-0.170	-0.110	0.0	0.0	93.4	93.4	0.00
T U.233/PD0227	0.170	0.110	-0.165	-0.102	5.2	7.8	93.4	89.4	3.96
Cable84	-2.269	-1.467	2.270	1.468	0.5	0.3	93.4	93.4	0.02
T U.536/PD0585	0.170	0.110	-0.165	-0.102	5.2	7.8	93.4	89.4	3.96
Cable85	0.536	0.347	-0.536	-0.347	0.0	0.0	93.4	93.4	0.00
T U.348/PDX015	0.536	0.347	-0.519	-0.322	16.4	24.7	93.4	89.4	3.96
CableU14	0.536	0.347	-0.536	-0.347	0.0	0.0	93.4	93.4	0.00
T U.211/PD0206	0.213	0.138	-0.206	-0.128	6.5	9.8	93.4	89.5	3.96
T U.14/PD0014	0.536	0.347	-0.519	-0.322	16.4	24.7	93.4	89.5	3.96
T U.228/PDX007	0.536	0.347	-0.519	-0.322	16.5	24.7	93.3	89.4	3.97
Cable88	0.349	0.226	-0.349	-0.226	0.0	0.0	93.3	93.3	0.00
Cable89	0.213	0.138	-0.213	-0.138	0.0	0.0	93.3	93.3	0.00
T U.517/PD0434	0.136	0.088	-0.132	-0.082	4.2	6.3	93.3	89.4	3.97
T U.10/PD0010	0.213	0.138	-0.206	-0.128	6.5	9.8	93.3	89.4	3.97

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	MW	Mvar	MW	Mvar	kW	kvar	From	To	
T U.263/PD0249	0.136	0.088	-0.132	-0.082	4.2	6.3	93.3	89.4	3.97
SKTM DARI GI	9.843	6.410	-9.731	-6.291	111.4	118.6	94.7	93.4	1.27
					439.1	581.6			

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