IEEE 30-bus system for OPF test.

Conditions similar to OPF MIN_P case

支路损耗总结报告

支路	首端-末端母线潮流		末端-首端母线潮流		损耗		% 母线电压		Vd % 压降
ID	MW	Mvar	MW	Mvar	kW	kvar	从	到	按电压大小
CKT 1-2	65.047	-21.557	-64.156	21.585	890.8	28.1	100.0	100.0	0.00
CKT 1-3	42.497	-0.440	-41.681	1.788	816.3	1348.6	100.0	98.3	1.71
CKT 2-4	31.556	1.771	-30.984	-1.840	571.6	-68.6	100.0	97.9	2.12
CKT 2-5	48.289	-10.011	-47.151	12.705	1138.3	2693.9	100.0	100.0	0.00
T 2-6	42.610	-2.124	-41.552	5.332	1058.7	3208.0	100.0	98.2	1.81
CKT 3-4	39.281	-2.988	-39.070	3.192	211.9	203.7	98.3	97.9	0.41
T 4-6	48.286	-20.668	-47.944	21.860	342.8	1192.8	97.9	98.2	0.31
T 4-12	14.167	17.713	-14.167	-16.489	0.1	1224.4	97.9	99.4	1.52
T 5-7	2.947	15.708	-2.828	-15.413	118.4	296.0	100.0	98.0	1.96
CKT 6-7	20.090	-4.970	-19.972	4.512	117.5	-457.3	98.2	98.0	0.15
CKT 6-8	1.458	-24.560	-1.384	24.377	74.0	-182.6	98.2	99.2	1.02
CKT 6-9	24.521	7.538	-24.521	-6.119	0.0	1419.4	98.2	96.7	1.46
CKT 6-28	21.689	2.450	-21.606	-2.154	83.5	295.9	98.2	97.7	0.51
T 6-10	21.737	-7.651	-21.737	11.356	0.4	3705.3	98.2	95.0	3.19
CKT 8-28	6.385	5.623	-6.338	-5.476	46.8	147.0	99.2	97.7	1.54
CKT 9-10	74.521	18.599	-74.521	-11.666		6933.0	96.7	95.0	1.74
T 9-11	-49.999	-12.480	50.000	18.383	0.6	5902.9	96.7	100.0	3.26
CKT 10-20	-2.597	5.547	2.636	-5.460	38.9	86.9	95.0	94.0	0.96
CKT 10-27	-10.946	1.330	10.989	-1.217	43.6	113.8	95.0	95.3	0.26
T 10-21	9.997	-2.128	-9.956	2.215	40.3	86.7	95.0	94.8	0.19
T 10-22	3.753	-1.692	-3.739	1.720	13.7	28.1	95.0	95.0	0.02
CKT 12-13	-60.000	-1.712	60.000	6.816		5104.0	99.4	100.0	0.60
CKT 12-14	12.581	0.365	-12.383	0.045	197.3	410.2	99.4	97.8	1.60
CKT 12-15	37.557	2.019	-36.609	-0.153	947.6	1866.5	99.4	96.8	2.65
T 12-16	12.830	8.317	-12.606	-7.847	223.8	470.0	99.4	96.5	2.87
CKT 14-15	6.183	-1.645	-6.089	1.730	94.6	85.5	97.8	96.8	1.05
CKT 15-23	16.419	-4.723	-16.107	5.352	311.7	629.7	96.8	96.1	0.63
T 15-18	18.079	0.644	-17.704	0.120	374.7	764.3	96.8	94.7	2.06
CKT 16-17	9.106	6.047	-9.000	-5.800	105.6	247.7	96.5	94.6	1.98
CKT 18-19	14.504	-1.020	-14.353	1.324	150.6	304.6	94.7	93.9	0.82
CKT 19-20	4.854	-4.725	-4.836	4.760	17.7	35.4	93.9	94.0	0.17
CKT 21-22	-7.544	-3.404	7.553	3.422	8.8	18.0	94.8	95.0	0.18
CKT 22-24	-3.814	-5.142	3.866	5.223	52.2	81.3	95.0	96.4	1.43
CKT 23-24	12.907	-6.953	-12.600	7.581	307.0	627.9	96.1	96.4	0.29
CKT 24-25	0.034	3.735	-0.006	-3.686	28.3	49.4	96.4	95.1	1.28

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ID	MW	Mvar	MW	Mvar	kW	kvar	从	到	按电压大小
T 25-26	3.551	2.377	-3.500	-2.300	51.4	76.6	95.1	93.2	1.90
T 25-27	-3.546	1.309	3.563	-1.276	17.3	32.9	95.1	95.3	0.13
CKT 27-29	6.240	3.028	-6.124	-2.808	116.5	220.1	95.3	92.5	2.74
CKT 27-30	7.151	3.612	-6.924	-3.186	226.4	426.2	95.3	90.6	4.63
T 28-27(1)	-9.314	-1.382	9.315	2.543	0.1	1160.8	95.3	97.7	2.42
T 28-27(2)	-9.314	-1.382	9.315	2.543	0.1	1160.8	95.3	97.7	2.42
T 28-27(3)	-9.314	-1.382	9.315	2.543	0.1	1160.8	95.3	97.7	2.42
CKT 29-30	3.724	1.908	-3.675	-1.815	49.1	92.7	92.5	90.6	1.89
					8889.2	43231.5			