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LOAD FLOW REPORT

Bus		Voltage		Generation		Load		Load Flow				XFMR	
ID	kV	% Mag.	Ang.	MW	Mvar	MW	Mvar	ID	MW	Mvar	Amp	%PF	%Tap
Bus1	161.000	99.703	-0.2	0	0	0	0	Bus2	235.965	87.288	904.9	93.8	
								Bus2	235.965	87.288	904.9	93.8	
								Bus3	-172.225	-65.683	663.0	93.4	
								Bus3	-344.450	-131.259	1325.8	93.4	
								Bus5	44.745	22.366	179.9	89.4	
Bus2	161.000	99.599	-0.3	0	0	0	0	Bus1	-235.804	-86.974	904.9	93.8	
								Bus1	-235.804	-86.974	904.9	93.8	
								Bus18	212.297	85.078	823.5	92.8	
								Bus18	212.297	85.078	823.5	92.8	
								Bus4	47.013	3.792	169.8	99.7	
* Bus3	161.000	100.000	0.0	517.489	199.214	0	0	Bus1	172.496	66.369	662.8	93.3	
								Bus1	344.993	132.845	1325.7	93.3	
Bus4	33.000	98.628	-1.4	0	0	0	0	Bus8	22.834	6.003	418.8	96.7	
								Bus2	-46.620	-2.822	828.5	99.8	
								Bus5	11.893	-1.591	212.8	-99.1	
								Bus6	11.893	-1.591	212.8	-99.1	
Bus5	33.000	98.628	-1.4	0	0	0	0	Bus8	22.834	6.003	418.8	96.7	
								Bus1	-44.717	-21.191	877.8	90.4	
								Bus4	-11.893	1.591	212.8	-99.1	
								Bus7	33.775	13.597	645.9	92.8	
Bus6	33.000	98.628	-1.4	0	0	0	0	Bus8	22.834	6.003	418.8	96.7	
								Bus4	-11.893	1.591	212.8	-99.1	
								Bus7	-10.941	-7.594	236.3	82.2	
Bus7	33.000	98.628	-1.4	0	0	0	0	Bus8	22.834	6.003	418.8	96.7	
								Bus5	-33.775	-13.597	645.9	92.8	
								Bus6	10.941	7.594	236.3	82.2	
Bus8	33.000	98.034	-1.9	0	0	0.000	-16.819	Bus4	-22.744	-5.791	418.8	96.9	
								Bus5	-22.744	-5.791	418.8	96.9	
								Bus7	-22.744	-5.791	418.8	96.9	
								Bus6	-22.744	-5.791	418.8	96.9	
								Bus44	11.550	4.867	223.7	92.2	
								Bus52	11.914	5.022	230.7	92.1	
								Bus53	11.914	5.022	230.7	92.1	
								Bus54	11.914	5.022	230.7	92.1	
								Bus55	10.921	5.013	214.4	90.9	
								Bus56	10.921	5.013	214.4	90.9	

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ID	kV	% Mag.	Ang.	MW	Mvar	MW	Mvar	ID	MW	Mvar	Amp	%PF	%Tap
Bus16	33.000	97.070	-2.4	0	0	0	0	Bus99	10.921	5.013	214.4	90.9	
								Bus100	10.921	5.013	214.4	90.9	
								Bus22	61.649	21.877	1179.0	94.2	
								Bus21	-30.824	-10.939	589.5	94.2	
Bus17	161.000	97.580	-1.6	0	0	0	0	Bus19	-30.824	-10.939	589.5	94.2	
								Bus18	-144.007	-52.266	563.0	94.0	
								Bus18	-144.007	-52.266	563.0	94.0	
								Bus32	92.130	33.200	359.9	94.1	
Bus18	161.000	97.644	-1.6	0	0	0	0	Bus32	95.169	33.238	370.5	94.4	
								Bus20	100.716	38.094	395.7	93.5	
								Bus17	144.070	52.388	563.0	94.0	
								Bus17	144.070	52.388	563.0	94.0	
Bus19	33.000	97.070	-2.4	0	0	0	0	Bus2	-210.009	-79.300	824.4	93.6	
								Bus2	-210.009	-79.300	824.4	93.6	
								Bus19	131.878	53.824	523.1	92.6	
								Bus22	56.953	22.131	1101.3	93.2	
Bus20	33.000	97.070	-2.4	0	0	0	0	Bus18	-131.828	-51.697	2552.2	93.1	
								Bus16	30.824	10.939	589.5	94.2	
								Bus20	44.051	18.627	862.0	92.1	
								Bus22	56.953	22.131	1101.3	93.2	
Bus21	33.000	97.070	-2.4	0	0	0	0	Bus17	-100.679	-36.572	1930.6	94.0	
								Bus19	-44.051	-18.627	862.0	92.1	
								Bus21	87.777	33.069	1690.6	93.6	
								Bus22	56.953	22.131	1101.3	93.2	
Bus22	33.000	95.296	-3.5	0	0	0.000	-15.892	Bus16	30.824	10.939	589.5	94.2	
								Bus20	-87.777	-33.069	1690.6	93.6	
								Bus16	-60.931	-20.294	1179.0	94.9	
								Bus19	-56.326	-20.633	1101.3	93.9	
								Bus20	-56.326	-20.633	1101.3	93.9	
								Bus21	-56.326	-20.633	1101.3	93.9	
								Bus63	29.504	12.701	589.7	91.9	
								Bus64	29.504	12.701	589.7	91.9	
								Bus65	29.491	12.797	590.2	91.7	
								Bus66	29.504	12.701	589.7	91.9	
								Bus67	27.343	11.742	546.3	91.9	
								Bus68	33.449	12.816	657.6	93.4	
								Bus101	10.805	4.962	218.3	90.9	
								Bus102	10.805	4.962	218.3	90.9	
								Bus104	29.504	12.701	589.7	91.9	

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ID	kV	% Mag.	Ang.	MW	Mvar	MW	Mvar	ID	MW	Mvar	Amp	%PF	%Tap
Bus30	33.000	95.620	-3.2	0	0	0	0	Bus36	40.038	13.405	772.5	94.8	
								Bus35	-20.019	-6.702	386.3	94.8	
								Bus33	-20.019	-6.702	386.3	94.8	
Bus31	161.000	96.357	-2.5	0	0	0	0	Bus32	-41.246	-21.441	173.0	88.7	
								Bus32	-41.246	-21.441	173.0	88.7	
								Bus39	13.686	4.316	53.4	95.4	
								Bus39	13.686	4.316	53.4	95.4	
								Bus34	55.119	34.250	241.5	84.9	
Bus32	161.000	96.379	-2.5	0	0	0	0	Bus31	41.252	21.452	173.0	88.7	
								Bus31	41.252	21.452	173.0	88.7	
								Bus17	-91.504	-32.369	361.1	94.3	
								Bus17	-94.506	-32.360	371.7	94.6	
								Bus33	103.506	21.824	393.6	97.8	
Bus33	33.000	95.620	-3.2	0	0	0	0	Bus36	37.919	13.557	736.8	94.2	
								Bus32	-102.941	-20.429	1920.2	98.1	
								Bus30	20.019	6.702	386.3	94.8	
								Bus34	45.003	0.169	823.4	100.0	
Bus34	33.000	95.620	-3.2	0	0	0	0	Bus36	40.038	13.405	772.5	94.8	
								Bus31	-55.093	-33.343	1178.3	85.6	
								Bus33	-45.003	-0.169	823.4	100.0	
								Bus35	60.057	20.107	1158.8	94.8	
Bus35	33.000	95.620	-3.2	0	0	0	0	Bus36	40.038	13.405	772.5	94.8	
								Bus30	20.019	6.702	386.3	94.8	
								Bus34	-60.057	-20.107	1158.8	94.8	
Bus36	33.000	94.464	-4.0	0	0	0.000	-15.616	Bus30	-39.730	-12.711	772.6	95.2	
								Bus33	-37.638	-12.890	736.8	94.6	
								Bus34	-39.730	-12.711	772.6	95.2	
								Bus35	-39.730	-12.711	772.6	95.2	
								Bus69	25.483	11.090	514.7	91.7	
								Bus70	25.483	11.090	514.7	91.7	
								Bus71	26.465	11.114	531.6	92.2	
								Bus72	26.465	11.114	531.6	92.2	
								Bus73	26.465	11.114	531.6	92.2	
								Bus74	26.465	11.114	531.6	92.2	
Bus37	33.000	99.392	-3.2	0	0	0	0	Bus43	6.736	2.275	125.2	94.7	
								Bus42	-3.368	-1.138	62.6	94.7	
								Bus40	-3.368	-1.138	62.6	94.7	
Bus38	161.000	96.197	-2.6	0	0	0	0	Bus39	-7.202	-10.417	47.2	56.9	
								Bus39	-7.202	-10.417	47.2	56.9	

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ID	kV	% Mag.	Ang.	MW	Mvar	MW	Mvar	ID	MW	Mvar	Amp	%PF	%Tap								
Bus39	161.000	96.204	-2.6	0	0	0	0	Bus41	14.404	20.833	94.4	56.9	-2.500								
								Bus38	7.202	10.417	47.2	56.9									
								Bus38	7.202	10.417	47.2	56.9									
								Bus31	-13.674	-5.140	54.5	93.6									
								Bus31	-13.674	-5.140	54.5	93.6									
Bus40	33.000	99.392	-3.2	0	0	0	0	Bus40	12.944	-10.554	62.3	-77.5	-2.500								
								Bus43	6.736	2.275	125.2	94.7									
								Bus39	-12.937	10.754	296.1	-76.9									
								Bus37	3.368	1.138	62.6	94.7									
								Bus41	2.833	-14.167	254.3	-19.6									
Bus41	33.000	99.392	-3.2	0	0	0	0	Bus43	6.736	2.275	125.2	94.7									
								Bus38	-14.008	-19.856	427.7	57.6	5.000								
								Bus40	-2.833	14.167	254.3	-19.6									
								Bus42	10.104	3.413	187.7	94.7									
								Bus43	6.736	2.275	125.2	94.7									
Bus42	33.000	99.392	-3.2	0	0	0	0	Bus37	3.368	1.138	62.6	94.7									
								Bus41	-10.104	-3.413	187.7	94.7									
								Bus37	-6.728	-2.261	125.2	94.8									
								Bus40	-6.728	-2.261	125.2	94.8									
								Bus41	-6.728	-2.261	125.2	94.8									
Bus43	33.000	99.198	-3.3	0	0	0	0	Bus37	-6.728	-2.261	125.2	94.8									
								Bus40	-6.728	-2.261	125.2	94.8									
								Bus41	-6.728	-2.261	125.2	94.8									
								Bus42	-6.728	-2.261	125.2	94.8									
								Bus81	8.971	3.015	166.9	94.8									
								Bus82	8.971	3.015	166.9	94.8									
								Bus83	8.971	3.015	166.9	94.8									
								Bus8	-11.525	-4.802	223.7	92.3									
								Bus52	33.000	97.631	-2.1	0	0	11.888	4.953	Bus8	-11.888	-4.953	230.8	92.3	
								Bus53	33.000	97.631	-2.1	0	0	11.888	4.953	Bus8	-11.888	-4.953	230.8	92.3	
Bus54	33.000	97.631	-2.1	0	0	11.888	4.953	Bus8	-11.888	-4.953	230.8	92.3									
Bus55	33.000	97.647	-2.1	0	0	10.898	4.953	Bus8	-10.898	-4.953	214.5	91.0									
Bus56	33.000	97.647	-2.1	0	0	10.898	4.953	Bus8	-10.898	-4.953	214.5	91.0									
Bus63	33.000	94.263	-4.2	0	0	29.331	12.221	Bus22	-29.331	-12.221	589.8	92.3									
Bus64	33.000	94.263	-4.2	0	0	29.331	12.221	Bus22	-29.331	-12.221	589.8	92.3									
Bus65	33.000	94.144	-4.3	0	0	29.318	12.216	Bus22	-29.318	-12.216	590.2	92.3									
Bus66	33.000	94.263	-4.2	0	0	29.331	12.221	Bus22	-29.331	-12.221	589.8	92.3									
Bus67	33.000	94.339	-4.1	0	0	27.195	11.331	Bus22	-27.195	-11.331	546.4	92.3									
Bus68	33.000	94.197	-4.3	0	0	33.234	12.218	Bus22	-33.234	-12.218	657.7	93.9									
Bus69	33.000	93.557	-4.6	0	0	25.352	10.726	Bus36	-25.352	-10.726	514.8	92.1									
Bus70	33.000	93.557	-4.6	0	0	25.352	10.726	Bus36	-25.352	-10.726	514.8	92.1									
Bus71	33.000	93.541	-4.6	0	0	26.325	10.725	Bus36	-26.325	-10.725	531.7	92.6									

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ID	kV	% Mag.	Ang.	MW	Mvar	MW	Mvar	ID	MW	Mvar	Amp	%PF	%Tap
Bus72	33.000	93.541	-4.6	0	0	26.325	10.725	Bus36	-26.325	-10.725	531.7	92.6	
Bus73	33.000	93.541	-4.6	0	0	26.325	10.725	Bus36	-26.325	-10.725	531.7	92.6	
Bus74	33.000	93.541	-4.6	0	0	26.325	10.725	Bus36	-26.325	-10.725	531.7	92.6	
Bus81	33.000	99.039	-3.5	0	0	8.966	2.989	Bus43	-8.966	-2.989	166.9	94.9	
Bus82	33.000	99.038	-3.5	0	0	8.966	2.989	Bus43	-8.966	-2.989	166.9	94.9	
Bus83	33.000	99.038	-3.5	0	0	8.966	2.989	Bus43	-8.966	-2.989	166.9	94.9	
Bus99	33.000	97.647	-2.1	0	0	10.898	4.953	Bus8	-10.898	-4.953	214.5	91.0	
Bus100	33.000	97.647	-2.1	0	0	10.898	4.953	Bus8	-10.898	-4.953	214.5	91.0	
Bus101	33.000	94.902	-3.7	0	0	10.781	4.901	Bus22	-10.781	-4.901	218.3	91.0	
Bus102	33.000	94.902	-3.7	0	0	10.781	4.901	Bus22	-10.781	-4.901	218.3	91.0	
Bus104	33.000	94.263	-4.2	0	0	29.331	12.221	Bus22	-29.331	-12.221	589.8	92.3	

* Indicates a voltage regulated bus (voltage controlled or swing type machine connected to it)

Indicates a bus with a load mismatch of more than 0.1 MVA