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Fundamental 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	33.000	100.000	0.0	5.686	1.015	0	0	Bus2	5.686	1.015	101.1	98.4	
Bus2	33.000	99.989	0.0	0	0	0	0	Bus3	1.874	0.352	33.4	98.3	
								Bus21	3.811	0.662	67.7	98.5	
								Bus1	-5.686	-1.014	101.1	98.4	
Bus3	33.000	99.985	0.0	0	0	0	0	Bus2	-1.874	-0.352	33.4	98.3	
								Bus4	1.874	0.352	33.4	98.3	
Bus4	33.000	99.974	0.0	0	0	0	0	Bus3	-1.874	-0.352	33.4	98.3	
								Bus6	1.787	0.323	31.8	98.4	
								Bus5	0.087	0.030	1.6	94.7	
Bus5	0.400	98.928	29.3	0	0	0.086	0.028	Bus4	-0.086	-0.028	132.7	95.0	
Bus6	33.000	99.956	0.0	0	0	0	0	Bus4	-1.787	-0.322	31.8	98.4	
								Bus7	1.787	0.322	31.8	98.4	
Bus7	33.000	99.914	0.0	0	0	0	0	Bus9	1.572	0.278	28.0	98.5	
								Bus6	-1.786	-0.322	31.8	98.4	
								Bus8	0.214	0.044	3.8	97.9	
Bus8	0.400	99.383	29.2	0	0	0.213	0.041	Bus7	-0.213	-0.041	315.5	98.2	
Bus9	33.000	99.911	0.0	0	0	0	0	Bus7	-1.572	-0.278	28.0	98.5	
								Bus10	0.367	0.061	6.5	98.6	
								Bus145	1.206	0.216	21.4	98.4	
Bus10	33.000	99.904	0.0	0	0	0	0	Bus11	0.041	0.004	0.7	99.4	
								Bus9	-0.367	-0.061	6.5	98.6	
								Bus13	0.326	0.057	5.8	98.5	
Bus11	33.000	99.904	0.0	0	0	0	0	Bus10	-0.041	-0.004	0.7	99.4	
								Bus12	0.041	0.004	0.7	99.4	
Bus12	0.400	99.208	29.5	0	0	0.041	0.004	Bus11	-0.041	-0.004	59.5	99.5	
Bus13	33.000	99.899	0.0	0	0	0	0	Bus15	0.265	0.046	4.7	98.5	
								Bus10	-0.326	-0.057	5.8	98.5	
								Bus14	0.061	0.011	1.1	98.5	
Bus14	0.400	99.333	29.4	0	0	0.060	0.010	Bus13	-0.060	-0.010	88.8	98.6	
Bus15	33.000	99.895	0.0	0	0	0	0	Bus17	0.072	0.011	1.3	98.8	
								Bus13	-0.265	-0.046	4.7	98.5	
								Bus20	0.193	0.035	3.4	98.4	
Bus17	33.000	99.895	0.0	0	0	0	0	Bus15	-0.072	-0.011	1.3	98.8	
								Bus18	0.072	0.011	1.3	98.8	
Bus18	33.000	99.893	0.0	0	0	0	0	Bus17	-0.072	-0.011	1.3	98.8	
								Bus19	0.072	0.011	1.3	98.8	
Bus19	0.400	99.248	29.3	0	0	0.072	0.010	Bus18	-0.072	-0.010	105.1	99.0	

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Bus		Voltage		Generation		Load		Load Flow					XFMR
ID	kV	%Mag.	Ang.	MW	Mvar	MW	Mvar	ID	MW	Mvar	Amp	% PF	% Tap
Bus20	0.400	99.024	28.8	0	0	0.192	0.031	Bus15	-0.192	-0.031	283.7	98.7	
Bus21	33.000	99.977	0.0	0	0	0	0	Bus2	-3.811	-0.662	67.7	98.5	
								Bus24	3.696	0.638	65.6	98.5	
								Bus22	0.115	0.023	2.1	98.1	
Bus22	0.400	98.860	29.0	0	0	0.114	0.021	Bus21	-0.114	-0.021	169.8	98.4	
Bus24	33.000	99.919	0.0	0	0	0	0	Bus28	3.373	0.566	59.9	98.6	
								Bus26	0.041	0.004	0.7	99.4	
								Bus21	-3.694	-0.637	65.6	98.5	
								Bus25	0.280	0.067	5.0	97.3	
Bus25	0.400	99.170	28.9	0	0	0.279	0.061	Bus24	-0.279	-0.061	415.8	97.7	
Bus26	33.000	99.919	0.0	0	0	0	0	Bus24	-0.041	-0.004	0.7	99.4	
								Bus27	0.041	0.004	0.7	99.4	
Bus27	0.400	99.223	29.5	0	0	0.041	0.004	Bus26	-0.041	-0.004	59.5	99.5	
Bus28	33.000	99.892	0.0	0	0	0	0	Bus31	3.270	0.550	58.1	98.6	
								Bus24	-3.372	-0.566	59.9	98.6	
								Bus30	0.102	0.016	1.8	98.8	
Bus30	0.400	99.460	29.4	0	0	0.101	0.014	Bus28	-0.101	-0.014	148.6	99.0	
Bus31	33.000	99.879	0.0	0	0	0	0	Bus32	0.321	0.056	5.7	98.5	
								Bus28	-3.270	-0.550	58.1	98.6	
								Bus38	2.949	0.493	52.4	98.6	
Bus32	33.000	99.878	0.0	0	0	0	0	Bus31	-0.321	-0.056	5.7	98.5	
								Bus35	0.093	0.018	1.7	98.1	
								Bus34	0.228	0.038	4.0	98.6	
Bus34	0.400	98.892	28.6	0	0	0.226	0.032	Bus32	-0.226	-0.032	333.3	99.0	
Bus35	33.000	99.876	0.0	0	0	0	0	Bus32	-0.093	-0.018	1.7	98.1	
								Bus37	0.093	0.018	1.7	98.1	
Bus37	0.400	98.976	29.2	0	0	0.093	0.017	Bus35	-0.093	-0.017	137.2	98.4	
Bus38	33.000	99.863	0.0	0	0	0	0	Bus42	0.432	0.092	7.7	97.8	
								Bus31	-2.949	-0.493	52.4	98.6	
								Bus53	2.517	0.402	44.6	98.8	
Bus41	0.400	99.112	28.9	0	0	0.279	0.061	Bus42	-0.279	-0.061	416.0	97.7	
Bus42	33.000	99.862	0.0	0	0	0	0	Bus38	-0.432	-0.092	7.7	97.8	
								Bus43	0.152	0.025	2.7	98.7	
								Bus41	0.280	0.067	5.0	97.3	
Bus43	33.000	99.858	0.0	0	0	0	0	Bus42	-0.152	-0.025	2.7	98.7	
								Bus44	0.152	0.025	2.7	98.7	
Bus44	33.000	99.851	0.0	0	0	0	0	Bus47	0.035	0.005	0.6	98.9	
								Bus43	-0.152	-0.025	2.7	98.7	
								Bus46	0.117	0.020	2.1	98.6	

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ID	kV	%Mag.	Ang.	MW	Mvar	MW	Mvar	ID	MW	Mvar	Amp	% PF	% Tap
Bus46	0.400	97.717	28.5	0	0	0.115	0.016	Bus44	-0.115	-0.016	171.3	99.0	
Bus47	33.000	99.850	0.0	0	0	0	0	Bus44	-0.035	-0.005	0.6	98.9	
								Bus51	0.035	0.005	0.6	98.9	
Bus51	33.000	99.847	0.0	0	0	0	0	Bus47	-0.035	-0.005	0.6	98.9	
								Bus52	0.035	0.005	0.6	98.9	
Bus52	0.400	99.212	29.5	0	0	0.035	0.005	Bus51	-0.035	-0.005	51.5	99.0	
Bus53	33.000	99.847	0.0	0	0	0	0	Bus54	2.516	0.401	44.6	98.8	
								Bus38	-2.516	-0.401	44.6	98.8	
Bus54	33.000	99.834	0.0	0	0	0	0	Bus57	2.475	0.397	43.9	98.7	
								Bus53	-2.516	-0.401	44.6	98.8	
								Bus56	0.041	0.004	0.7	99.4	
Bus56	0.400	99.138	29.4	0	0	0.041	0.004	Bus54	-0.041	-0.004	59.5	99.5	
Bus57	33.000	99.826	0.0	0	0	0	0	Bus54	-2.475	-0.397	43.9	98.7	
								Bus63	2.056	0.327	36.5	98.8	
								Bus60	0.139	0.003	2.4	100.0	
								Bus59	0.280	0.067	5.0	97.3	
Bus59	0.400	99.076	28.9	0	0	0.279	0.061	Bus57	-0.279	-0.061	416.1	97.7	
Bus60	33.000	99.824	0.0	0	0	0	0	Bus57	-0.139	-0.003	2.4	100.0	
								Bus62	0.139	0.003	2.4	100.0	
Bus62	0.400	98.890	28.6	0	0	0.137	0.000	Bus60	-0.137	0.000	200.7	100.0	
Bus63	33.000	99.818	0.0	0	0	0	0	Bus57	-2.056	-0.327	36.5	98.8	
								Bus64	2.056	0.327	36.5	98.8	
Bus64	33.000	99.804	-0.1	0	0	0	0	Bus69	0.097	0.017	1.7	98.5	
								Bus63	-2.056	-0.327	36.5	98.8	
								Bus70	1.669	0.255	29.6	98.9	
								Bus66	0.290	0.055	5.2	98.3	
Bus66	0.400	98.490	28.2	0	0	0.287	0.045	Bus64	-0.287	-0.045	426.5	98.8	
Bus68	0.400	99.368	29.4	0	0	0.097	0.016	Bus69	-0.097	-0.016	142.5	98.7	
Bus69	33.000	99.803	-0.1	0	0	0	0	Bus64	-0.097	-0.017	1.7	98.5	
								Bus68	0.097	0.017	1.7	98.5	
Bus70	33.000	99.784	-0.1	0	0	0	0	Bus83	1.189	0.179	21.1	98.9	
								Bus64	-1.668	-0.255	29.6	98.9	
								Bus73	0.252	0.038	4.5	98.9	
								Bus72	0.227	0.038	4.0	98.6	
Bus72	0.400	98.798	28.6	0	0	0.226	0.032	Bus70	-0.226	-0.032	333.5	99.0	
Bus73	33.000	99.778	-0.1	0	0	0	0	Bus76	0.159	0.020	2.8	99.2	
								Bus70	-0.252	-0.038	4.5	98.9	
								Bus75	0.093	0.017	1.7	98.3	
Bus75	0.400	99.348	29.4	0	0	0.093	0.016	Bus73	-0.093	-0.016	136.9	98.5	

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ID	kV	%Mag.	Ang.	MW	Mvar	MW	Mvar	ID	MW	Mvar	Amp	% PF	% Tap
Bus76	33.000	99.776	-0.1	0	0	0	0	Bus79	0.106	0.012	1.9	99.3	
								Bus73	-0.159	-0.020	2.8	99.2	
								Bus78	0.053	0.008	0.9	98.9	
Bus78	0.400	99.297	29.5	0	0	0.053	0.008	Bus76	-0.053	-0.008	78.1	99.0	
Bus79	33.000	99.775	-0.1	0	0	0	0	Bus76	-0.106	-0.012	1.9	99.3	
								Bus82	0.106	0.012	1.9	99.3	
Bus81	0.400	98.894	29.0	0	0	0.105	0.010	Bus82	-0.105	-0.010	154.3	99.5	
Bus82	33.000	99.773	-0.1	0	0	0	0	Bus79	-0.106	-0.012	1.9	99.3	
								Bus81	0.106	0.012	1.9	99.3	
Bus83	33.000	99.778	-0.1	0	0	0	0	Bus70	-1.188	-0.179	21.1	98.9	
								Bus87	1.071	0.172	19.0	98.7	
								Bus86	0.117	0.008	2.1	99.8	
Bus85	0.400	98.902	28.9	0	0	0.116	0.005	Bus86	-0.116	-0.005	169.6	99.9	
Bus86	33.000	99.776	-0.1	0	0	0	0	Bus83	-0.117	-0.008	2.1	99.8	
								Bus85	0.117	0.008	2.1	99.8	
Bus87	33.000	99.765	-0.1	0	0	0	0	Bus83	-1.071	-0.172	19.0	98.7	
								Bus90	0.962	0.152	17.1	98.8	
								Bus89	0.110	0.020	2.0	98.4	
Bus89	0.400	98.738	29.0	0	0	0.109	0.018	Bus87	-0.109	-0.018	161.1	98.7	
Bus90	33.000	99.746	-0.1	0	0	0	0	Bus113	0.287	-0.038	5.1	-99.1	
								Bus93	0.503	0.155	9.2	95.6	
								Bus87	-0.962	-0.152	17.1	98.8	
								Bus92	0.171	0.035	3.1	98.0	
Bus92	0.400	98.931	28.9	0	0	0.171	0.031	Bus90	-0.171	-0.031	253.1	98.3	
Bus93	33.000	99.739	-0.1	0	0	0	0	Bus96	0.416	0.125	7.6	95.8	
								Bus90	-0.503	-0.155	9.2	95.6	
								Bus95	0.087	0.030	1.6	94.7	
Bus95	0.400	98.691	29.2	0	0	0.086	0.028	Bus93	-0.086	-0.028	132.9	95.0	
Bus96	33.000	99.737	-0.1	0	0	0	0	Bus93	-0.416	-0.125	7.6	95.8	
								Bus103	0.215	0.038	3.8	98.5	
								Bus99	0.100	0.072	2.2	81.3	
								Bus98	0.102	0.016	1.8	98.8	
Bus98	0.400	99.305	29.3	0	0	0.101	0.014	Bus96	-0.101	-0.014	148.7	99.0	
Bus99	33.000	99.737	-0.1	0	0	0	0	Bus102	0.100	0.072	2.2	81.3	
								Bus96	-0.100	-0.072	2.2	81.3	
Bus101	0.400	99.131	29.6	0	0	0.100	0.071	Bus102	-0.100	-0.071	178.5	81.7	
Bus102	33.000	99.736	-0.1	0	0	0	0	Bus99	-0.100	-0.072	2.2	81.3	
								Bus101	0.100	0.072	2.2	81.3	
Bus103	33.000	99.734	-0.1	0	0	0	0	Bus96	-0.215	-0.038	3.8	98.5	

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Bus		Voltage		Generation		Load		Load Flow					XFMR
ID	kV	%Mag.	Ang.	MW	Mvar	MW	Mvar	ID	MW	Mvar	Amp	% PF	% Tap
Bus105	0.400	98.834	29.1	0	0	0.093	0.017	Bus106	0.121	0.020	2.2	98.7	
								Bus105	0.093	0.018	1.7	98.1	
Bus106	33.000	99.732	-0.1	0	0	0	0	Bus103	-0.093	-0.017	137.3	98.4	
Bus108	0.400	98.632	28.8	0	0	0.120	0.017	Bus108	0.121	0.020	2.2	98.7	
								Bus106	-0.120	-0.017	178.0	99.0	
Bus113	33.000	99.745	-0.1	0	0	0	0	Bus90	-0.287	0.038	5.1	-99.1	
Bus114	33.000	99.742	-0.1	0	0	0	0	Bus114	0.287	-0.038	5.1	-99.1	
								Bus113	-0.287	0.038	5.1	-99.1	
Bus116	0.400	99.117	29.3	0	0	0.066	0.011	Bus120	0.057	0.009	1.0	98.6	
								Bus121	0.163	-0.059	3.1	-94.0	
Bus119	0.400	99.219	29.4	0	0	0.056	0.009	Bus116	0.067	0.012	1.2	98.5	
Bus120	33.000	99.741	-0.1	0	0	0	0	Bus114	-0.066	-0.011	97.9	98.6	
Bus121	33.000	99.740	-0.1	0	0	0	0	Bus120	-0.056	-0.009	83.2	98.8	
								Bus114	-0.057	-0.009	1.0	98.6	
Bus124	33.000	99.740	-0.1	0	0	0	0	Bus119	0.057	0.009	1.0	98.6	
								Bus124	0.170	0.030	3.0	98.4	
Bus125	0.400	98.745	29.0	0	0	0.169	0.027	Bus126	-0.006	-0.090	1.6	7.1	
								Bus114	-0.163	0.059	3.1	-94.0	
Bus126	33.000	99.741	-0.1	0	0	0	0	Bus121	-0.170	-0.030	3.0	98.4	
Bus127	33.000	99.744	-0.1	0	0	0	0	Bus125	0.170	0.030	3.0	98.4	
								Bus124	-0.169	-0.027	249.8	98.7	
Bus129	0.400	99.183	29.2	0	0	0.078	0.003	Bus127	-0.122	-0.113	2.9	73.3	
								Bus121	0.006	0.090	1.6	7.1	
Bus132	33.000	99.751	-0.1	0	0	0	0	Bus142	0.115	0.023	2.1	98.1	
Bus133	0.400	99.184	29.4	0	0	0.063	0.009	Bus126	0.122	0.113	2.9	73.3	
								Bus132	-0.200	-0.116	4.1	86.4	
Bus134	33.000	99.751	-0.1	0	0	0	0	Bus129	0.078	0.004	1.4	99.9	
Bus135	33.000	99.756	-0.1	0	0	0	0	Bus127	-0.078	-0.003	113.1	99.9	
Bus138	33.000	99.765	-0.1	0	0	0	0	Bus135	-0.263	-0.126	5.1	90.2	
								Bus127	0.200	0.116	4.1	86.4	
Bus139								Bus134	0.000	0.000	0.0	0.0	
								Bus133	0.063	0.010	1.1	98.9	
Bus140								Bus132	-0.063	-0.009	92.5	99.0	
								Bus132	0.000	0.000	0.0	0.0	
Bus141								Bus132	0.263	0.126	5.1	90.2	
								Bus138	-0.263	-0.126	5.1	90.2	
Bus142								Bus135	0.263	0.126	5.1	90.2	
								Bus139	0.111	0.048	2.1	91.6	

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ID	kV	%Mag.	Ang.	MW	Mvar	MW	Mvar	ID	MW	Mvar	Amp	% PF	% Tap
Bus139	0.400	98.258	29.1	0	0	0.110	0.046	Bus213	-0.374	-0.175	7.2	90.6	
								Bus138	-0.110	-0.046	174.8	92.2	
								Bus142	-0.115	-0.023	2.1	98.1	
Bus142	33.000	99.736	-0.1	0	0	0	0	Bus126	-0.115	-0.023	2.1	98.1	
Bus143	0.400	98.618	28.9	0	0	0.114	0.021	Bus143	0.115	0.023	2.1	98.1	
								Bus142	-0.114	-0.021	170.1	98.4	
								Bus146	1.205	0.216	21.4	98.4	
Bus145	33.000	99.893	0.0	0	0	0	0	Bus9	-1.205	-0.216	21.4	98.4	
Bus146	33.000	99.889	0.0	0	0	0	0	Bus152	0.211	0.031	3.7	98.9	
								Bus145	-1.205	-0.216	21.4	98.4	
								Bus172	0.846	0.152	15.1	98.4	
								Bus151	0.041	0.004	0.7	99.5	
								Bus148	0.108	0.028	1.9	96.7	
Bus148	0.400	98.732	29.1	0	0	0.107	0.026	Bus146	-0.107	-0.026	160.8	97.1	
Bus150	0.400	99.551	29.6	0	0	0.041	0.004	Bus151	-0.041	-0.004	59.4	99.5	
Bus151	33.000	99.887	0.0	0	0	0	0	Bus146	-0.041	-0.004	0.7	99.5	
								Bus150	0.041	0.004	0.7	99.5	
Bus152	33.000	99.888	0.0	0	0	0	0	Bus146	-0.211	-0.031	3.7	98.9	
								Bus155	0.197	0.030	3.5	98.9	
								Bus154	0.013	0.002	0.2	99.0	
Bus154	0.400	99.769	29.8	0	0	0.013	0.002	Bus152	-0.013	-0.002	19.7	99.0	
Bus155	33.000	99.884	0.0	0	0	0	0	Bus158	0.157	0.025	2.8	98.7	
								Bus152	-0.197	-0.030	3.5	98.9	
								Bus157	0.041	0.004	0.7	99.5	
Bus157	0.400	99.548	29.6	0	0	0.041	0.004	Bus155	-0.041	-0.004	59.4	99.5	
Bus158	33.000	99.883	0.0	0	0	0	0	Bus155	-0.157	-0.025	2.8	98.7	
								Bus159	0.157	0.025	2.8	98.7	
Bus159	33.000	99.879	0.0	0	0	0	0	Bus160	0.157	0.025	2.8	98.7	
								Bus158	-0.157	-0.025	2.8	98.7	
Bus160	33.000	99.876	0.0	0	0	0	0	Bus163	0.096	0.016	1.7	98.6	
								Bus159	-0.157	-0.025	2.8	98.7	
								Bus162	0.061	0.009	1.1	98.9	
Bus162	0.400	99.332	29.4	0	0	0.061	0.009	Bus160	-0.061	-0.009	88.8	99.0	
Bus163	33.000	99.874	0.0	0	0	0	0	Bus160	-0.096	-0.016	1.7	98.6	
								Bus166	0.035	0.005	0.6	98.9	
								Bus165	0.061	0.011	1.1	98.5	
Bus165	0.400	99.308	29.4	0	0	0.060	0.010	Bus163	-0.060	-0.010	88.8	98.6	
Bus166	33.000	99.874	0.0	0	0	0	0	Bus167	0.035	0.005	0.6	98.9	
								Bus163	-0.035	-0.005	0.6	98.9	
Bus167	33.000	99.873	0.0	0	0	0	0	Bus166	-0.035	-0.005	0.6	98.9	

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Bus		Voltage		Generation		Load		Load Flow					XFMR
ID	kV	%Mag.	Ang.	MW	Mvar	MW	Mvar	ID	MW	Mvar	Amp	% PF	% Tap
Bus168	33.000	99.873	0.0	0	0	0	0	Bus168	0.035	0.005	0.6	98.9	
								Bus167	-0.035	-0.005	0.6	98.9	
								Bus171	0.035	0.005	0.6	98.9	
Bus170	0.400	99.238	29.5	0	0	0.035	0.005	Bus171	-0.035	-0.005	51.5	99.0	
Bus171	33.000	99.873	0.0	0	0	0	0	Bus168	-0.035	-0.005	0.6	98.9	
								Bus170	0.035	0.005	0.6	98.9	
								Bus146	-0.846	-0.152	15.1	98.4	
Bus172	33.000	99.882	0.0	0	0	0	0	Bus173	0.846	0.152	15.1	98.4	
								Bus176	0.792	0.133	14.1	98.6	
								Bus172	-0.846	-0.152	15.1	98.4	
Bus173	33.000	99.848	0.0	0	0	0	0	Bus175	0.054	0.018	1.0	94.7	
								Bus173	-0.053	-0.017	82.2	95.0	
								Bus176	-0.792	-0.133	14.1	98.6	
Bus175	0.400	98.641	29.4	0	0	0.053	0.017	Bus179	0.086	0.014	1.5	98.7	
								Bus180	0.706	0.119	12.5	98.6	
								Bus179	-0.085	-0.012	125.9	99.0	
Bus176	33.000	99.839	0.0	0	0	0	0	Bus176	-0.086	-0.014	1.5	98.7	
								Bus178	0.086	0.014	1.5	98.7	
								Bus176	-0.706	-0.119	12.5	98.6	
Bus178	0.400	98.275	28.9	0	0	0.085	0.012	Bus194	0.418	0.084	7.5	98.1	
								Bus181	0.168	0.017	3.0	99.5	
								Bus208	0.120	0.019	2.1	98.8	
Bus179	33.000	99.837	0.0	0	0	0	0	Bus184	0.076	0.006	1.3	99.7	
								Bus180	-0.168	-0.017	3.0	99.5	
								Bus183	0.092	0.011	1.6	99.3	
Bus180	33.000	99.820	-0.1	0	0	0	0	Bus181	-0.091	-0.010	134.1	99.4	
								Bus181	-0.076	-0.006	1.3	99.7	
								Bus185	0.076	0.006	1.3	99.7	
Bus181	33.000	99.814	-0.1	0	0	0	0	Bus189	0.035	0.002	0.6	99.9	
								Bus184	-0.076	-0.006	1.3	99.7	
								Bus188	0.041	0.004	0.7	99.5	
Bus183	0.400	99.040	29.1	0	0	0.091	0.010	Bus185	-0.041	-0.004	59.4	99.5	
								Bus193	0.000	0.000	0.0	0.0	
								Bus185	-0.035	-0.002	0.6	99.9	
Bus184	33.000	99.814	-0.1	0	0	0	0	Bus192	0.035	0.002	0.6	99.9	
								Bus192	-0.035	-0.002	50.4	99.9	
								Bus189	-0.035	-0.002	0.6	99.9	
Bus185	33.000	99.812	-0.1	0	0	0	0	Bus191	0.035	0.002	0.6	99.9	
								Bus189	0.000	0.000	0.0	0.0	
								Bus189	0.000	0.000	0.0	0.0	
Bus188	0.400	99.477	29.6	0	0	0.041	0.004	Bus189	-0.035	-0.002	0.6	99.9	
								Bus191	0.035	0.002	0.6	99.9	
								Bus189	0.000	0.000	0.0	0.0	
Bus189	33.000	99.812	-0.1	0	0	0	0	Bus191	0.035	0.002	0.6	99.9	
								Bus189	0.000	0.000	0.0	0.0	
								Bus189	0.000	0.000	0.0	0.0	
Bus191	0.400	99.557	29.6	0	0	0.035	0.002	Bus192	-0.035	-0.002	50.4	99.9	
								Bus189	-0.035	-0.002	0.6	99.9	
								Bus191	0.035	0.002	0.6	99.9	
Bus192	33.000	99.811	-0.1	0	0	0	0	Bus189	-0.035	-0.002	0.6	99.9	
								Bus191	0.035	0.002	0.6	99.9	
								Bus189	0.000	0.000	0.0	0.0	
Bus193	33.000	99.812	-0.1	0	0	0	0	Bus189	0.000	0.000	0.0	0.0	
								Bus189	0.000	0.000	0.0	0.0	
								Bus189	0.000	0.000	0.0	0.0	

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Bus		Voltage		Generation		Load		Load Flow				XFMR	
ID	kV	%Mag.	Ang.	MW	Mvar	MW	Mvar	ID	MW	Mvar	Amp	% PF	% Tap
Bus194	33.000	99.817	-0.1	0	0	0	0	Bus180	-0.418	-0.084	7.5	98.1	
								Bus195	0.418	0.084	7.5	98.1	
Bus195	33.000	99.808	-0.1	0	0	0	0	Bus196	0.418	0.084	7.5	98.1	
								Bus194	-0.418	-0.084	7.5	98.1	
Bus196	33.000	99.808	-0.1	0	0	0	0	Bus195	-0.418	-0.084	7.5	98.1	
								Bus197	0.418	0.084	7.5	98.1	
Bus197	33.000	99.807	-0.1	0	0	0	0	Bus198	0.207	0.050	3.7	97.2	
								Bus209	0.210	0.033	3.7	98.8	
								Bus196	-0.417	-0.084	7.5	98.1	
Bus198	33.000	99.804	-0.1	0	0	0	0	Bus197	-0.207	-0.050	3.7	97.2	
								Bus200	0.207	0.050	3.7	97.2	
Bus200	0.400	98.735	28.7	0	0	0.206	0.045	Bus198	-0.206	-0.045	308.6	97.7	
Bus201	33.000	99.801	-0.1	0	0	0	0	Bus204	0.000	0.000	0.0	0.0	
								Bus209	-0.035	-0.005	0.6	98.9	
								Bus203	0.035	0.005	0.6	98.9	
Bus203	0.400	99.487	29.6	0	0	0.035	0.005	Bus201	-0.035	-0.005	51.4	99.0	
Bus204	33.000	99.801	-0.1	0	0	0	0	Bus201	0.000	0.000	0.0	0.0	
								Bus205	0.000	0.000	0.0	0.0	
								Bus206	0.000	0.000	0.0	0.0	
Bus205	33.000	99.801	-0.1	0	0	0	0	Bus204	0.000	0.000	0.0	0.0	
Bus206	33.000	99.801	-0.1	0	0	0	0	Bus204	0.000	0.000	0.0	0.0	
Bus208	0.400	99.306	29.2	0	0	0.120	0.017	Bus180	-0.120	-0.017	176.3	99.0	
Bus209	33.000	99.801	-0.1	0	0	0	0	Bus201	0.035	0.005	0.6	98.9	
								Bus197	-0.210	-0.033	3.7	98.8	
								Bus211	0.175	0.028	3.1	98.7	
Bus211	0.400	99.049	28.9	0	0	0.174	0.025	Bus209	-0.174	-0.025	256.2	99.0	
Bus212	0.400	99.641	30.7	0.380	0.184	0	0	Bus213	0.380	0.184	611.6	90.0	
Bus213	33.000	99.765	-0.1	0	0	0	0	Bus212	-0.374	-0.175	7.2	90.6	2.500
								Bus138	0.374	0.175	7.2	90.6	

* 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