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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	2.437	0.952	0	0	Bus2	2.437	0.952	45.8	93.2	
Bus2	33.000	99.995	0.0	0	0	0	0	Bus3	0.901	0.362	17.0	92.8	
								Bus21	1.536	0.589	28.8	93.4	
								Bus1	-2.437	-0.951	45.8	93.2	
Bus3	33.000	99.993	0.0	0	0	0	0	Bus2	-0.901	-0.362	17.0	92.8	
								Bus4	0.901	0.362	17.0	92.8	
Bus4	33.000	99.987	0.0	0	0	0	0	Bus3	-0.901	-0.362	17.0	92.8	
								Bus6	0.878	0.348	16.5	93.0	
								Bus5	0.022	0.014	0.5	84.8	
Bus5	0.400	99.611	29.8	0	0	0.022	0.014	Bus4	-0.022	-0.014	38.3	85.0	
Bus6	33.000	99.977	0.0	0	0	0	0	Bus4	-0.878	-0.348	16.5	93.0	
								Bus7	0.878	0.348	16.5	93.0	
Bus7	33.000	99.953	0.0	0	0	0	0	Bus9	0.822	0.321	15.4	93.2	
								Bus6	-0.878	-0.348	16.5	93.0	
								Bus8	0.056	0.027	1.1	89.8	
Bus8	0.400	99.703	29.8	0	0	0.056	0.027	Bus7	-0.056	-0.027	89.9	89.9	
Bus9	33.000	99.951	0.0	0	0	0	0	Bus7	-0.822	-0.321	15.4	93.2	
								Bus10	0.166	0.073	3.2	91.6	
								Bus145	0.656	0.248	12.3	93.5	
Bus10	33.000	99.948	0.0	0	0	0	0	Bus11	0.016	0.006	0.3	94.5	
								Bus9	-0.166	-0.073	3.2	91.6	
								Bus13	0.150	0.067	2.9	91.3	
Bus11	33.000	99.948	0.0	0	0	0	0	Bus10	-0.016	-0.006	0.3	94.5	
								Bus12	0.016	0.006	0.3	94.5	
Bus12	0.400	99.586	29.8	0	0	0.016	0.005	Bus11	-0.016	-0.005	24.4	94.5	
Bus13	33.000	99.945	0.0	0	0	0	0	Bus15	0.120	0.056	2.3	90.6	
								Bus10	-0.150	-0.067	2.9	91.3	
								Bus14	0.031	0.011	0.6	93.9	
Bus14	0.400	99.561	29.7	0	0	0.031	0.011	Bus13	-0.031	-0.011	47.3	94.0	
Bus15	33.000	99.943	0.0	0	0	0	0	Bus17	0.023	0.012	0.5	88.2	
								Bus13	-0.120	-0.056	2.3	90.6	
								Bus20	0.097	0.044	1.9	91.1	
Bus17	33.000	99.943	0.0	0	0	0	0	Bus15	-0.023	-0.012	0.5	88.2	
								Bus18	0.023	0.012	0.5	88.2	
Bus18	33.000	99.942	0.0	0	0	0	0	Bus17	-0.023	-0.012	0.5	88.2	
								Bus19	0.023	0.012	0.5	88.2	
Bus19	0.400	99.592	29.8	0	0	0.023	0.012	Bus18	-0.023	-0.012	37.6	88.3	

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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	99.222	29.5	0	0	0.096	0.043	Bus15	-0.096	-0.043	153.4	91.5	
Bus21	33.000	99.989	0.0	0	0	0	0	Bus2	-1.536	-0.589	28.8	93.4	
								Bus24	1.464	0.566	27.5	93.3	
								Bus22	0.073	0.023	1.3	95.3	
Bus22	0.400	99.141	29.4	0	0	0.072	0.022	Bus21	-0.072	-0.022	110.0	95.6	
Bus24	33.000	99.963	0.0	0	0	0	0	Bus28	1.366	0.522	25.6	93.4	
								Bus26	0.016	0.006	0.3	94.5	
								Bus21	-1.463	-0.566	27.5	93.3	
								Bus25	0.082	0.038	1.6	90.7	
								Bus24	-0.081	-0.037	129.8	90.9	
Bus25	33.000	99.963	0.0	0	0	0	0	Bus24	-0.016	-0.006	0.3	94.5	
								Bus27	0.016	0.006	0.3	94.5	
								Bus26	-0.016	-0.005	24.4	94.5	
Bus27	0.400	99.601	29.8	0	0	0.016	0.005	Bus26	-0.016	-0.005	24.4	94.5	
Bus28	33.000	99.951	0.0	0	0	0	0	Bus31	1.310	0.506	24.6	93.3	
								Bus24	-1.366	-0.522	25.6	93.4	
								Bus30	0.056	0.016	1.0	96.3	
								Bus28	-0.056	-0.015	84.1	96.4	
								Bus32	0.139	0.051	2.6	94.0	
Bus30	33.000	99.945	0.0	0	0	0	0	Bus28	-1.309	-0.506	24.6	93.3	
								Bus38	1.170	0.455	22.0	93.2	
								Bus31	-0.139	-0.051	2.6	94.0	
								Bus35	0.022	0.014	0.5	84.8	
								Bus34	0.117	0.037	2.1	95.4	
Bus34	0.400	99.248	29.3	0	0	0.116	0.035	Bus32	-0.116	-0.035	176.9	95.8	
Bus35	33.000	99.944	0.0	0	0	0	0	Bus32	-0.022	-0.014	0.5	84.8	
								Bus37	0.022	0.014	0.5	84.8	
								Bus35	-0.022	-0.014	38.3	85.0	
Bus37	0.400	99.568	29.8	0	0	0.022	0.014	Bus35	-0.022	-0.014	38.3	85.0	
Bus38	33.000	99.938	0.0	0	0	0	0	Bus42	0.151	0.058	2.8	93.3	
								Bus31	-1.170	-0.455	22.0	93.2	
								Bus53	1.019	0.397	19.2	93.2	
								Bus42	-0.081	-0.037	129.8	90.9	
								Bus38	-0.151	-0.058	2.8	93.3	
Bus41	33.000	99.937	0.0	0	0	0	0	Bus43	0.069	0.020	1.3	96.1	
								Bus41	0.082	0.038	1.6	90.7	
								Bus42	-0.069	-0.020	1.3	96.1	
								Bus44	0.069	0.020	1.3	96.1	
								Bus47	0.014	0.006	0.3	92.4	
Bus42	33.000	99.932	0.0	0	0	0	0	Bus43	-0.069	-0.020	1.3	96.1	
								Bus46	0.055	0.014	1.0	96.8	

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ID	kV	%Mag.	Ang.	MW	Mvar	MW	Mvar	ID	MW	Mvar	Amp	% PF	% Tap
Bus46	0.400	98.805	29.4	0	0	0.055	0.013	Bus44	-0.055	-0.013	82.1	97.1	
Bus47	33.000	99.931	0.0	0	0	0	0	Bus44	-0.014	-0.006	0.3	92.4	
								Bus51	0.014	0.006	0.3	92.4	
Bus51	33.000	99.930	0.0	0	0	0	0	Bus47	-0.014	-0.006	0.3	92.4	
								Bus52	0.014	0.006	0.3	92.4	
Bus52	0.400	99.586	29.8	0	0	0.014	0.006	Bus51	-0.014	-0.006	22.2	92.5	
Bus53	33.000	99.930	0.0	0	0	0	0	Bus54	1.019	0.397	19.2	93.2	
								Bus38	-1.019	-0.397	19.2	93.2	
Bus54	33.000	99.924	0.0	0	0	0	0	Bus57	1.003	0.392	18.9	93.1	
								Bus53	-1.019	-0.397	19.2	93.2	
								Bus56	0.016	0.006	0.3	94.5	
Bus56	0.400	99.562	29.8	0	0	0.016	0.005	Bus54	-0.016	-0.005	24.4	94.5	
Bus57	33.000	99.921	0.0	0	0	0	0	Bus54	-1.003	-0.392	18.9	93.1	
								Bus63	0.849	0.318	15.9	93.6	
								Bus60	0.072	0.036	1.4	89.7	
								Bus59	0.081	0.038	1.6	90.7	
Bus59	0.400	99.571	29.7	0	0	0.081	0.037	Bus57	-0.081	-0.037	129.8	90.9	
Bus60	33.000	99.919	0.0	0	0	0	0	Bus57	-0.072	-0.036	1.4	89.7	
								Bus62	0.072	0.036	1.4	89.7	
Bus62	0.400	98.869	29.4	0	0	0.072	0.035	Bus60	-0.072	-0.035	116.2	90.1	
Bus63	33.000	99.917	0.0	0	0	0	0	Bus57	-0.849	-0.318	15.9	93.6	
								Bus64	0.849	0.318	15.9	93.6	
Bus64	33.000	99.910	0.0	0	0	0	0	Bus69	0.069	0.021	1.3	95.7	
								Bus63	-0.849	-0.318	15.9	93.6	
								Bus70	0.666	0.246	12.4	93.8	
								Bus66	0.114	0.051	2.2	91.3	
Bus66	0.400	99.065	29.4	0	0	0.114	0.049	Bus64	-0.114	-0.049	180.7	91.7	
Bus68	0.400	99.504	29.6	0	0	0.069	0.020	Bus69	-0.069	-0.020	104.5	95.9	
Bus69	33.000	99.910	0.0	0	0	0	0	Bus64	-0.069	-0.021	1.3	95.7	
								Bus68	0.069	0.021	1.3	95.7	
Bus70	33.000	99.901	0.0	0	0	0	0	Bus83	0.434	0.165	8.1	93.5	
								Bus64	-0.666	-0.246	12.4	93.8	
								Bus73	0.115	0.044	2.2	93.4	
								Bus72	0.117	0.037	2.1	95.4	
Bus72	0.400	99.205	29.3	0	0	0.116	0.035	Bus70	-0.116	-0.035	176.9	95.8	
Bus73	33.000	99.898	0.0	0	0	0	0	Bus76	0.068	0.025	1.3	93.8	
								Bus70	-0.115	-0.044	2.2	93.4	
								Bus75	0.047	0.019	0.9	92.8	
Bus75	0.400	99.573	29.7	0	0	0.047	0.019	Bus73	-0.047	-0.019	73.1	93.0	

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ID	kV	%Mag.	Ang.	MW	Mvar	MW	Mvar	ID	MW	Mvar	Amp	% PF	% Tap
Bus76	33.000	99.897	0.0	0	0	0	0	Bus79	0.053	0.013	0.9	97.0	
								Bus73	-0.068	-0.025	1.3	93.8	
								Bus78	0.016	0.012	0.4	79.3	
Bus78	0.400	99.592	29.9	0	0	0.016	0.012	Bus76	-0.016	-0.012	29.1	79.4	
Bus79	33.000	99.897	0.0	0	0	0	0	Bus76	-0.053	-0.013	0.9	97.0	
								Bus82	0.053	0.013	0.9	97.0	
Bus81	0.400	99.341	29.5	0	0	0.052	0.013	Bus82	-0.052	-0.013	78.2	97.2	
Bus82	33.000	99.896	0.0	0	0	0	0	Bus79	-0.053	-0.013	0.9	97.0	
								Bus81	0.053	0.013	0.9	97.0	
Bus83	33.000	99.899	0.0	0	0	0	0	Bus70	-0.434	-0.165	8.1	93.5	
								Bus87	0.379	0.151	7.1	92.9	
								Bus86	0.055	0.014	1.0	96.8	
Bus85	0.400	99.311	29.5	0	0	0.055	0.014	Bus86	-0.055	-0.014	81.8	97.0	
Bus86	33.000	99.898	0.0	0	0	0	0	Bus83	-0.055	-0.014	1.0	96.8	
								Bus85	0.055	0.014	1.0	96.8	
Bus87	33.000	99.894	0.0	0	0	0	0	Bus83	-0.379	-0.151	7.1	92.9	
								Bus90	0.332	0.134	6.3	92.7	
								Bus89	0.046	0.017	0.9	94.2	
Bus89	0.400	99.321	29.6	0	0	0.046	0.016	Bus87	-0.046	-0.016	71.1	94.4	
Bus90	33.000	99.886	0.0	0	0	0	0	Bus113	-0.015	-0.044	0.8	32.8	
								Bus93	0.262	0.146	5.3	87.4	
								Bus87	-0.332	-0.134	6.3	92.7	
								Bus92	0.086	0.033	1.6	93.4	
Bus92	0.400	99.311	29.5	0	0	0.085	0.032	Bus90	-0.085	-0.032	132.5	93.7	
Bus93	33.000	99.882	0.0	0	0	0	0	Bus96	0.240	0.132	4.8	87.7	
								Bus90	-0.262	-0.146	5.3	87.4	
								Bus95	0.022	0.014	0.5	84.8	
Bus95	0.400	99.506	29.8	0	0	0.022	0.014	Bus93	-0.022	-0.014	38.3	85.0	
Bus96	33.000	99.881	0.0	0	0	0	0	Bus93	-0.240	-0.132	4.8	87.7	
								Bus103	0.115	0.041	2.1	94.2	
								Bus99	0.069	0.075	1.8	67.6	
Bus98	0.400	99.564	29.7	0	0	0.056	0.015	Bus98	0.056	0.016	1.0	96.3	
								Bus96	-0.056	-0.015	84.2	96.4	
								Bus102	0.069	0.075	1.8	67.6	
Bus99	33.000	99.880	0.0	0	0	0	0	Bus96	-0.069	-0.075	1.8	67.6	
								Bus102	-0.069	-0.074	147.0	67.9	
Bus101	0.400	99.287	29.8	0	0	0.069	0.074	Bus102	-0.069	-0.074	147.0	67.9	
Bus102	33.000	99.879	0.0	0	0	0	0	Bus99	-0.069	-0.075	1.8	67.6	
								Bus101	0.069	0.075	1.8	67.6	
Bus103	33.000	99.879	0.0	0	0	0	0	Bus96	-0.115	-0.041	2.1	94.2	

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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	99.263	29.6	0	0	0.047	0.019	Bus106	0.068	0.022	1.2	95.1	
								Bus105	0.047	0.019	0.9	92.7	
								Bus103	-0.047	-0.019	73.2	93.0	
Bus106	33.000	99.877	0.0	0	0	0	0	Bus103	-0.068	-0.022	1.2	95.1	
Bus108	0.400	99.080	29.4	0	0	0.067	0.021	Bus108	0.068	0.022	1.2	95.1	
								Bus106	-0.067	-0.021	102.9	95.4	
								Bus90	0.015	0.044	0.8	32.8	
Bus114	33.000	99.887	0.0	0	0	0	0	Bus114	-0.015	-0.044	0.8	32.8	
								Bus113	0.015	0.044	0.8	32.8	
								Bus120	0.024	0.008	0.4	95.3	
Bus116	0.400	99.464	29.7	0	0	0.032	0.013	Bus121	-0.072	-0.065	1.7	74.3	
								Bus116	0.032	0.013	0.6	92.8	
								Bus114	-0.032	-0.013	50.2	92.9	
Bus119	0.400	99.602	29.8	0	0	0.024	0.008	Bus120	-0.024	-0.008	36.8	95.4	
Bus120	33.000	99.886	0.0	0	0	0	0	Bus114	-0.024	-0.008	0.4	95.3	
								Bus119	0.024	0.008	0.4	95.3	
								Bus124	0.085	0.029	1.6	94.7	
Bus121	33.000	99.889	0.0	0	0	0	0	Bus126	-0.156	-0.093	3.2	85.9	
								Bus114	0.072	0.065	1.7	74.3	
								Bus121	-0.085	-0.029	1.6	94.7	
Bus124	33.000	99.888	0.0	0	0	0	0	Bus125	0.085	0.029	1.6	94.7	
								Bus125	0.085	0.029	1.6	94.7	
								Bus124	-0.084	-0.028	129.1	95.0	
Bus125	0.400	99.253	29.6	0	0	0.084	0.028	Bus127	-0.229	-0.116	4.5	89.1	
Bus126	33.000	99.892	0.0	0	0	0	0	Bus121	0.156	0.093	3.2	85.9	
								Bus142	0.073	0.023	1.3	95.3	
								Bus126	0.229	0.116	4.5	89.1	
Bus127	33.000	99.897	0.0	0	0	0	0	Bus132	-0.264	-0.124	5.1	90.6	
								Bus129	0.035	0.007	0.6	97.9	
								Bus127	-0.035	-0.007	52.2	98.0	
Bus129	0.400	99.547	29.7	0	0	0.035	0.007	Bus135	-0.303	-0.137	5.8	91.1	
Bus132	33.000	99.905	0.0	0	0	0	0	Bus127	0.264	0.124	5.1	90.6	
								Bus134	0.000	0.000	0.0	0.0	
								Bus133	0.038	0.013	0.7	94.8	
Bus133	0.400	99.446	29.7	0	0	0.038	0.013	Bus132	-0.038	-0.013	58.3	95.0	
Bus134	33.000	99.905	0.0	0	0	0	0	Bus132	0.000	0.000	0.0	0.0	
Bus135	33.000	99.910	0.0	0	0	0	0	Bus132	0.303	0.137	5.8	91.1	
								Bus138	-0.303	-0.137	5.8	91.1	
								Bus135	0.303	0.137	5.8	91.1	
Bus138	33.000	99.921	0.0	0	0	0	0	Bus139	0.071	0.038	1.4	88.2	

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ID	kV	%Mag.	Ang.	MW	Mvar	MW	Mvar	ID	MW	Mvar	Amp	% PF	% Tap
Bus139	0.400	98.841	29.5	0	0	0.071	0.037	Bus213	-0.374	-0.175	7.2	90.6	
								Bus138	-0.071	-0.037	116.3	88.7	
								Bus142	-0.073	-0.023	1.3	95.3	
Bus142	33.000	99.889	0.0	0	0	0	0	Bus143	0.073	0.023	1.3	95.3	
Bus143	0.400	99.040	29.4	0	0	0.072	0.022	Bus142	-0.072	-0.022	110.0	95.6	
Bus145	33.000	99.939	0.0	0	0	0	0	Bus146	0.656	0.248	12.3	93.5	
Bus146	33.000	99.937	0.0	0	0	0	0	Bus9	-0.656	-0.248	12.3	93.5	
								Bus152	0.136	0.047	2.5	94.5	
								Bus145	-0.656	-0.248	12.3	93.5	
								Bus172	0.447	0.165	8.3	93.8	
								Bus151	0.016	0.006	0.3	94.5	
Bus148	0.400	99.067	29.6	0	0	0.057	0.030	Bus148	0.057	0.031	1.1	88.0	
Bus148	0.400	99.067	29.6	0	0	0.057	0.030	Bus146	-0.057	-0.030	93.2	88.4	
Bus150	0.400	99.741	29.9	0	0	0.016	0.005	Bus151	-0.016	-0.005	24.4	94.5	
Bus151	33.000	99.936	0.0	0	0	0	0	Bus146	-0.016	-0.006	0.3	94.5	
Bus152	33.000	99.936	0.0	0	0	0	0	Bus150	0.016	0.006	0.3	94.5	
								Bus146	-0.136	-0.047	2.5	94.5	
								Bus155	0.129	0.045	2.4	94.5	
								Bus154	0.007	0.002	0.1	94.8	
Bus154	0.400	99.858	29.9	0	0	0.007	0.002	Bus152	-0.007	-0.002	9.9	94.9	
Bus155	33.000	99.933	0.0	0	0	0	0	Bus158	0.113	0.039	2.1	94.5	
Bus157	0.400	99.738	29.9	0	0	0.016	0.005	Bus152	-0.129	-0.045	2.4	94.5	
								Bus157	0.016	0.006	0.3	94.5	
								Bus155	-0.016	-0.005	24.4	94.5	
								Bus158	-0.113	-0.039	2.1	94.5	
Bus158	33.000	99.932	0.0	0	0	0	0	Bus155	-0.113	-0.039	2.1	94.5	
Bus159	33.000	99.929	0.0	0	0	0	0	Bus159	0.113	0.039	2.1	94.5	
								Bus160	0.113	0.039	2.1	94.5	
								Bus158	-0.113	-0.039	2.1	94.5	
Bus160	33.000	99.926	0.0	0	0	0	0	Bus163	0.045	0.017	0.8	93.4	
Bus162	0.400	99.124	29.4	0	0	0.068	0.021	Bus159	-0.113	-0.039	2.1	94.5	
								Bus162	0.068	0.022	1.3	95.2	
								Bus160	-0.068	-0.021	103.6	95.5	
Bus163	33.000	99.925	0.0	0	0	0	0	Bus160	-0.045	-0.017	0.8	93.4	
Bus165	0.400	99.541	29.7	0	0	0.031	0.011	Bus166	0.014	0.006	0.3	92.4	
								Bus165	0.031	0.011	0.6	93.9	
								Bus163	-0.031	-0.011	47.3	94.0	
Bus166	33.000	99.925	0.0	0	0	0	0	Bus167	0.014	0.006	0.3	92.4	
Bus167	33.000	99.925	0.0	0	0	0	0	Bus163	-0.014	-0.006	0.3	92.4	
								Bus166	-0.014	-0.006	0.3	92.4	

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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	99.925	0.0	0	0	0	0	Bus168	0.014	0.006	0.3	92.4	
								Bus167	-0.014	-0.006	0.3	92.4	
								Bus171	0.014	0.006	0.3	92.4	
Bus170	0.400	99.580	29.8	0	0	0.014	0.006	Bus171	-0.014	-0.006	22.2	92.5	
Bus171	33.000	99.924	0.0	0	0	0	0	Bus168	-0.014	-0.006	0.3	92.4	
								Bus170	0.014	0.006	0.3	92.4	
								Bus146	-0.447	-0.165	8.3	93.8	
Bus172	33.000	99.933	0.0	0	0	0	0	Bus173	0.447	0.165	8.3	93.8	
								Bus176	0.393	0.146	7.3	93.7	
								Bus172	-0.447	-0.165	8.3	93.8	
Bus173	33.000	99.913	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	-0.393	-0.146	7.3	93.7	
Bus175	0.400	98.706	29.4	0	0	0.053	0.017	Bus179	0.040	0.014	0.7	94.6	
								Bus180	0.353	0.132	6.6	93.6	
								Bus179	-0.040	-0.013	61.7	94.8	
Bus176	33.000	99.908	0.0	0	0	0	0	Bus176	-0.040	-0.014	0.7	94.6	
								Bus178	0.040	0.014	0.7	94.6	
								Bus176	-0.353	-0.132	6.6	93.6	
Bus178	0.400	98.997	29.6	0	0	0.040	0.013	Bus194	0.221	0.085	4.2	93.3	
								Bus181	0.075	0.029	1.4	93.3	
								Bus208	0.057	0.018	1.0	95.1	
Bus179	33.000	99.907	0.0	0	0	0	0	Bus184	0.027	0.010	0.5	93.8	
								Bus180	-0.075	-0.029	1.4	93.3	
								Bus183	0.048	0.019	0.9	93.0	
Bus180	33.000	99.897	0.0	0	0	0	0	Bus181	-0.047	-0.018	73.9	93.3	
								Bus181	-0.027	-0.010	0.5	93.8	
								Bus185	0.027	0.010	0.5	93.8	
Bus181	33.000	99.894	0.0	0	0	0	0	Bus189	0.011	0.005	0.2	92.8	
								Bus184	-0.027	-0.010	0.5	93.8	
								Bus188	0.016	0.006	0.3	94.5	
Bus183	0.400	99.278	29.6	0	0	0.047	0.018	Bus185	-0.016	-0.005	24.4	94.5	
								Bus193	0.000	0.000	0.0	0.0	
								Bus185	-0.011	-0.005	0.2	92.8	
Bus184	33.000	99.894	0.0	0	0	0	0	Bus192	0.011	0.005	0.2	92.8	
								Bus192	-0.011	-0.005	17.6	92.9	
								Bus189	-0.011	-0.005	0.2	92.8	
Bus185	33.000	99.893	0.0	0	0	0	0	Bus191	0.011	0.005	0.2	92.8	
								Bus189	0.000	0.000	0.0	0.0	
								Bus189	0.000	0.000	0.0	0.0	
Bus188	0.400	99.698	29.9	0	0	0.016	0.005						
Bus189	33.000	99.893	0.0	0	0	0	0						
Bus191	0.400	99.745	29.9	0	0	0.011	0.005						
Bus192	33.000	99.893	0.0	0	0	0	0						
Bus193	33.000	99.893	0.0	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	99.895	0.0	0	0	0	0	Bus180	-0.221	-0.085	4.2	93.3	
								Bus195	0.221	0.085	4.2	93.3	
Bus195	33.000	99.890	0.0	0	0	0	0	Bus196	0.221	0.085	4.2	93.3	
								Bus194	-0.221	-0.085	4.2	93.3	
Bus196	33.000	99.890	0.0	0	0	0	0	Bus195	-0.221	-0.085	4.2	93.3	
								Bus197	0.221	0.085	4.2	93.3	
Bus197	33.000	99.889	0.0	0	0	0	0	Bus198	0.114	0.051	2.2	91.3	
								Bus209	0.107	0.034	2.0	95.3	
								Bus196	-0.221	-0.085	4.2	93.3	
Bus198	33.000	99.888	0.0	0	0	0	0	Bus197	-0.114	-0.051	2.2	91.3	
								Bus200	0.114	0.051	2.2	91.3	
Bus200	0.400	99.042	29.4	0	0	0.114	0.049	Bus198	-0.114	-0.049	180.7	91.7	
Bus201	33.000	99.886	0.0	0	0	0	0	Bus204	0.000	0.000	0.0	0.0	
								Bus209	-0.014	-0.006	0.3	92.4	
								Bus203	0.014	0.006	0.3	92.4	
Bus203	0.400	99.697	29.9	0	0	0.014	0.006	Bus201	-0.014	-0.006	22.2	92.5	
Bus204	33.000	99.886	0.0	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	99.886	0.0	0	0	0	0	Bus204	0.000	0.000	0.0	0.0	
Bus206	33.000	99.886	0.0	0	0	0	0	Bus204	0.000	0.000	0.0	0.0	
Bus208	0.400	99.551	29.7	0	0	0.056	0.018	Bus180	-0.056	-0.018	85.9	95.2	
Bus209	33.000	99.886	0.0	0	0	0	0	Bus201	0.014	0.006	0.3	92.4	
								Bus197	-0.107	-0.034	2.0	95.3	
								Bus211	0.093	0.028	1.7	95.7	
Bus211	0.400	99.341	29.5	0	0	0.093	0.027	Bus209	-0.093	-0.027	140.4	96.0	
Bus212	0.400	99.789	30.8	0.380	0.184	0	0	Bus213	0.380	0.184	610.7	90.0	
Bus213	33.000	99.921	0.0	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