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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	
* Bus2	33.000	100.000	0.0	6.477	3.448	0	0	Bus3	6.477	3.448	128.4	88.3		
Bus3	33.000	99.982	0.0	0	0	0	0	Bus2	-6.476	-3.447	128.4	88.3		
								Bus4	0.031	0.016	0.6	88.8		
								Bus7	6.445	3.431	127.8	88.3		
Bus4	33.000	99.982	0.0	0	0	0	0	Bus3	-0.031	-0.016	0.6	88.5		
								Bus5	0.031	0.016	0.6	88.5		
Bus5	33.000	99.982	0.0	0	0	0	0	Bus6	0.031	0.016	0.6	88.5		
								Bus4	-0.031	-0.016	0.6	88.5		
Bus6	33.000	99.977	0.0	0	0	0	0	Bus5	-0.031	-0.021	0.7	82.6		
								Bus230	0.031	0.021	0.7	82.6		
Bus7	33.000	99.806	-0.1	0	0	0	0	Bus3	-6.438	-3.419	127.8	88.3		
								Bus8	6.310	3.375	125.4	88.2		
								Bus231	0.129	0.043	2.4	94.8		
Bus8	33.000	98.919	-0.1	0	0	0	0	Bus7	-6.253	-3.352	125.5	88.1		
								Bus9	6.229	3.343	125.0	88.1		
								Bus233	0.024	0.008	0.4	94.7		
Bus9	33.000	98.846	-0.1	0	0	0	0	Bus8	-6.224	-3.341	125.0	88.1		
								Bus10	6.224	3.341	125.0	88.1		
Bus10	33.000	98.846	-0.1	0	0	0	0	Bus11	6.224	3.341	125.0	88.1		
								Bus9	-6.224	-3.341	125.0	88.1		
Bus11	33.000	98.720	-0.1	0	0	0	0	Bus10	-6.216	-3.338	125.0	88.1		
								Bus12	6.216	3.338	125.0	88.1		
Bus12	33.000	97.274	-1.5	0	0	0	0	Bus13	6.206	3.134	125.0	89.3		
								Bus11	-6.206	-3.134	125.0	89.3		
Bus13	33.000	96.927	-1.5	0	0	0	0	Bus12	-6.184	-3.125	125.1	89.3		
								Bus14	6.099	3.104	123.5	89.1		
								Bus234	0.085	0.020	1.6	97.2		
Bus14	33.000	96.516	-1.5	0	0	0	0	Bus13	-6.073	-3.093	123.5	89.1		
								Bus15	5.987	3.070	122.0	89.0		
								Bus235	0.086	0.023	1.6	96.5		
Bus15	33.000	96.289	-1.5	0	0	0	0	Bus14	-5.973	-3.064	122.0	89.0		
								Bus16	5.973	3.064	122.0	89.0		
Bus16	33.000	96.150	-1.5	0	0	0	0	Bus15	-5.964	-3.060	122.0	89.0		
								Bus17	5.945	3.054	121.6	88.9		
								Bus240	0.019	0.006	0.4	95.3		
Bus17	33.000	96.083	-1.5	0	0	0	0	Bus16	-5.941	-3.053	121.6	88.9		

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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	
Bus18	33.000	96.043	-1.5	0	0	0	0	Bus18	0.753	1.251	26.6	51.6		
								Bus158	5.188	1.802	100.0	94.5		
								Bus17	-0.752	-1.252	26.6	51.5		
								Bus19	0.645	1.219	25.1	46.8		
Bus19	33.000	96.028	-1.5	0	0	0	0	Bus246	0.107	0.033	2.0	95.5		
								Bus18	-0.645	-1.219	25.1	46.8		
								Bus20	0.270	0.061	5.0	97.6		
								Bus26	0.375	1.158	22.2	30.8		
Bus20	33.000	96.024	-1.5	0	0	0	0	Bus19	-0.270	-0.061	5.0	97.5		
								Bus21	0.181	0.044	3.4	97.2		
								Bus22	0.089	0.017	1.6	98.2		
								Bus20	-0.181	-0.044	3.4	97.1		
Bus21	33.000	96.022	-1.5	0	0	0	0	Bus247	0.181	0.044	3.4	97.1		
								Bus20	-0.089	-0.017	1.6	98.2		
								Bus23	0.089	0.017	1.6	98.2		
								Bus24	0.089	0.017	1.6	98.2		
Bus22	33.000	96.023	-1.5	0	0	0	0	Bus22	-0.089	-0.017	1.6	98.2		
								Bus23	-0.089	-0.017	1.6	98.2		
								Bus24	-0.089	-0.017	1.6	98.2		
								Bus23	-0.089	-0.018	1.6	98.0		
Bus23	33.000	96.023	-1.5	0	0	0	0	Bus25	0.089	0.018	1.6	98.0		
								Bus24	-0.089	-0.019	1.7	97.8		
								Bus248	0.089	0.019	1.7	97.8		
								Bus19	-0.375	-1.159	22.2	30.8		
Bus24	33.000	96.018	-1.5	0	0	0	0	Bus27	0.375	1.159	22.2	30.8		
								Bus28	0.375	1.159	22.2	30.8		
								Bus26	-0.375	-1.159	22.2	30.8		
								Bus29	0.129	0.028	2.4	97.8		
Bus25	33.000	96.018	-1.5	0	0	0	0	Bus27	-0.375	-1.159	22.2	30.8		
								Bus30	0.123	1.091	20.0	11.2		
								Bus249	0.123	0.041	2.4	95.0		
								Bus28	-0.129	-0.045	2.5	94.4		
Bus26	33.000	96.018	-1.5	0	0	0	0	Bus250	0.129	0.045	2.5	94.4		
								Bus28	-0.123	-1.092	20.0	11.2		
								Bus31	0.038	-0.003	0.7	-99.7		
								Bus35	-0.040	1.067	19.5	-3.7		
Bus27	33.000	96.018	-1.5	0	0	0	0	Bus251	0.124	0.028	2.3	97.6		
								Bus30	-0.038	0.003	0.7	-99.8		
								Bus32	0.038	-0.003	0.7	-99.8		
								Bus33	0.038	-0.003	0.7	-99.8		
Bus28	33.000	96.007	-1.5	0	0	0	0	Bus31	-0.038	0.003	0.7	-99.8		
Bus29	33.000	96.005	-1.5	0	0	0	0							
Bus30	33.000	95.980	-1.4	0	0	0	0							
Bus31	33.000	95.980	-1.4	0	0	0	0							
Bus32	33.000	95.980	-1.4	0	0	0	0							

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ID	kV	% Mag.	Ang.	MW	Mvar	MW	Mvar	ID	MW	Mvar	Amp	%PF	%Tap
Bus33	33.000	95.977	-1.4	0	0	0	0	Bus32	-0.038	0.000	0.7	100.0	
								Bus34	0.030	-0.002	0.5	-99.7	
								Bus252	0.009	0.002	0.2	97.6	
Bus34	33.000	95.975	-1.4	0	0	0	0	Bus33	-0.030	0.000	0.5	100.0	
								Bus253	0.030	0.000	0.5	100.0	
Bus35	33.000	95.938	-1.4	0	0	0	0	Bus30	0.041	-1.070	19.5	-3.8	
								Bus36	0.026	0.005	0.5	98.0	
								Bus37	-0.066	1.064	19.4	-6.2	
Bus36	33.000	95.936	-1.4	0	0	0	0	Bus35	-0.026	-0.007	0.5	96.5	
								Bus254	0.026	0.007	0.5	96.5	
Bus37	33.000	95.930	-1.4	0	0	0	0	Bus35	0.066	-1.065	19.5	-6.2	
								Bus38	-0.096	1.045	19.1	-9.1	
								Bus255	0.030	0.020	0.6	83.1	
Bus38	33.000	95.926	-1.4	0	0	0	0	Bus39	0.138	0.035	2.6	97.0	
								Bus37	0.096	-1.045	19.1	-9.2	
								Bus41	-0.234	1.010	18.9	-22.6	
Bus39	33.000	95.924	-1.4	0	0	0	0	Bus38	-0.138	-0.064	2.8	90.7	
								Bus40	0.137	0.064	2.8	90.7	
								Bus257	0.001	0.000	0.0	98.1	
Bus40	33.000	95.923	-1.4	0	0	0	0	Bus39	-0.137	-0.064	2.8	90.6	
								Bus256	0.137	0.064	2.8	90.6	
								Bus38	0.234	-1.011	18.9	-22.6	
Bus41	33.000	95.921	-1.4	0	0	0	0	Bus42	-0.292	0.989	18.8	-28.3	
								Bus258	0.057	0.022	1.1	93.3	
								Bus41	0.293	-0.992	18.9	-28.3	
Bus42	33.000	95.902	-1.3	0	0	0	0	Bus43	0.024	0.004	0.4	98.9	
								Bus45	-0.454	0.955	19.3	-42.9	
								Bus259	0.137	0.033	2.6	97.2	
Bus43	33.000	95.900	-1.3	0	0	0	0	Bus42	-0.024	-0.006	0.4	97.0	
								Bus44	0.007	-0.001	0.1	-99.0	
								Bus260	0.017	0.007	0.3	92.4	
Bus44	33.000	95.900	-1.3	0	0	0	0	Bus43	-0.007	-0.002	0.1	96.1	
								Bus261	0.007	0.002	0.1	96.1	
Bus45	33.000	95.902	-1.3	0	0	0	0	Bus42	0.454	-0.956	19.3	-42.9	
								Bus46	-0.586	0.902	19.6	-54.5	
								Bus262	0.131	0.054	2.6	92.6	
Bus46	33.000	95.920	-1.2	0	0	0	0	Bus45	0.587	-0.906	19.7	-54.4	
								Bus47	-0.609	0.899	19.8	-56.1	
								Bus263	0.022	0.007	0.4	95.2	

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ID	kV	% Mag.	Ang.	MW	Mvar	MW	Mvar	ID	MW	Mvar	Amp	%PF	%Tap
Bus47	33.000	95.923	-1.2	0	0	0	0	Bus46	0.609	-0.899	19.8	-56.1	
								Bus48	-0.609	0.899	19.8	-56.1	
Bus48	33.000	95.925	-1.1	0	0	0	0	Bus47	0.609	-0.900	19.8	-56.1	
								Bus49	-0.609	0.900	19.8	-56.1	
Bus49	33.000	95.925	-1.1	0	0	0	0	Bus50	-0.609	0.900	19.8	-56.1	
								Bus48	0.609	-0.900	19.8	-56.1	
Bus50	33.000	95.927	-1.1	0	0	0	0	Bus49	0.610	-0.900	19.8	-56.1	
								Bus51	0.000	-0.004	0.1	0.0	
								Bus55	-0.610	0.904	19.9	-55.9	
Bus51	33.000	95.927	-1.1	0	0	0	0	Bus50	0.000	0.002	0.0	0.0	
								Bus52	0.000	-0.002	0.0	0.0	
Bus52	33.000	95.927	-1.1	0	0	0	0	Bus53	0.000	-0.002	0.0	0.0	
								Bus51	0.000	0.002	0.0	0.0	
Bus53	33.000	95.927	-1.1	0	0	0	0	Bus52	0.000	0.002	0.0	0.0	
								Bus54	0.000	-0.002	0.0	0.0	
Bus54	33.000	95.927	-1.1	0	0	0	0	Line43~	0.000	-0.002	0.0	0.0	
								Bus53	0.000	0.002	0.0	0.0	
Bus55	33.000	95.929	-1.1	0	0	0	0	Bus50	0.610	-0.904	19.9	-55.9	
								Bus56	-0.619	0.900	19.9	-56.6	
								Bus264	0.009	0.004	0.2	91.3	
Bus56	33.000	95.913	-1.1	0	0	0	0	Bus55	0.619	-0.902	20.0	-56.6	
								Bus57	-0.629	0.894	19.9	-57.6	
								Bus268	0.011	0.008	0.2	80.8	
Bus57	33.000	95.929	-1.1	0	0	0	0	Bus56	0.631	-0.897	20.0	-57.5	
								Bus58	-0.745	0.886	21.1	-64.4	
								Bus269	0.114	0.011	2.1	99.6	
Bus58	33.000	95.939	-1.0	0	0	0	0	Bus57	0.745	-0.887	21.1	-64.3	
								Bus59	-3.142	0.088	57.3	-100.0	
								Bus96	2.396	0.799	46.1	94.9	
Bus59	33.000	95.974	-1.0	0	0	0	0	Bus60	0.097	0.012	1.8	99.2	
								Bus58	3.143	-0.088	57.3	-100.0	
								Bus61	-3.240	0.075	59.1	-100.0	
Bus60	33.000	95.974	-1.0	0	0	0	0	Bus59	-0.097	-0.028	1.8	96.1	
								Bus270	0.097	0.028	1.8	96.1	
Bus61	33.000	96.013	-1.0	0	0	0	0	Bus59	3.241	-0.075	59.1	-100.0	
								Bus62	-3.366	0.025	61.3	100.0	
								Bus271	0.125	0.050	2.4	92.9	
Bus62	33.000	96.042	-1.0	0	0	0	0	Bus61	3.367	-0.025	61.3	100.0	
								Bus63	0.141	0.013	2.6	99.6	

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ID	kV	% Mag.	Ang.	MW	Mvar	MW	Mvar	ID	MW	Mvar	Amp	%PF	%Tap
Bus63	33.000	96.041	-1.0	0	0	0	0	Bus67	-3.508	0.012	63.9	100.0	
								Bus64	0.063	-0.013	1.2	-98.0	
								Bus62	-0.141	-0.013	2.6	99.6	
								Bus300	0.078	0.026	1.5	94.8	
Bus64	33.000	96.040	-1.0	0	0	0	0	Bus63	-0.063	-0.011	1.2	98.5	
Bus65	33.000	96.039	-1.0	0	0	0	0	Bus65	0.063	0.011	1.2	98.5	
								Bus66	0.063	0.011	1.2	98.4	
Bus66	33.000	96.039	-1.0	0	0	0	0	Bus64	-0.063	-0.011	1.2	98.4	
								Bus65	-0.063	-0.022	1.2	94.3	
Bus67	33.000	96.170	-1.0	0	0	0	0	Bus301	0.063	0.022	1.2	94.3	
								Bus62	3.513	-0.011	63.9	100.0	
								Bus68	-3.580	0.002	65.1	100.0	
								Bus272	0.067	0.009	1.2	99.1	
Bus68	33.000	96.755	-0.8	0	0	0	0	Bus67	3.602	0.003	65.1	100.0	
								Bus69	-3.636	-0.020	65.8	100.0	
								Bus273	0.035	0.017	0.7	89.9	
								Bus68	3.644	0.022	65.8	100.0	
Bus69	33.000	96.972	-0.7	0	0	0	0	Bus70	-3.728	-0.043	67.3	100.0	
								Bus274	0.083	0.021	1.6	96.9	
								Bus69	3.732	0.044	67.3	100.0	
								Bus71	0.247	0.139	5.1	87.1	
Bus70	33.000	97.081	-0.7	0	0	0	0	Bus73	-3.978	-0.183	71.8	99.9	
								Bus70	-0.246	-0.141	5.1	86.8	
								Bus72	0.204	0.129	4.3	84.4	
								Bus275	0.043	0.012	0.8	96.6	
Bus71	33.000	97.066	-0.7	0	0	0	0	Bus71	-0.204	-0.133	4.4	83.7	
								Bus276	0.204	0.133	4.4	83.7	
Bus72	33.000	97.037	-0.7	0	0	0	0	Bus70	3.979	0.184	71.8	99.9	
								Bus74	-4.046	-0.210	73.0	99.9	
								Bus299	0.067	0.026	1.3	93.2	
								Bus73	4.090	0.222	73.0	99.9	
Bus73	33.000	97.091	-0.7	0	0	0	0	Bus75	0.080	0.030	1.5	93.7	
								Bus76	-4.254	-0.291	76.0	99.8	
								Bus277	0.085	0.039	1.7	90.7	
								Bus74	-0.080	-0.031	1.5	93.2	
Bus74	33.000	98.167	-0.4	0	0	0	0	Bus278	0.080	0.031	1.5	93.2	
								Bus74	4.259	0.293	76.0	99.8	
Bus75	33.000	98.163	-0.4	0	0	0	0	Bus77	0.023	0.018	0.5	79.2	
								Bus78	-4.282	-0.310	76.4	99.7	
Bus76	33.000	98.279	-0.4	0	0	0	0						

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Bus77	33.000	98.278	-0.4	0	0	0	0	Bus76	-0.023	-0.018	0.5	78.7	
								Bus279	0.023	0.018	0.5	78.7	
Bus78	33.000	98.912	-0.2	0	0	0	0	Bus76	4.309	0.318	76.4	99.7	
								Bus79	0.008	0.001	0.1	98.4	
								Bus80	-4.317	-0.320	76.6	99.7	
								Bus78	-0.008	-0.002	0.1	96.9	
Bus79	33.000	98.912	-0.2	0	0	0	0	Bus287	0.008	0.002	0.1	96.9	
								Bus78	4.322	0.321	76.6	99.7	
Bus80	33.000	99.044	-0.2	0	0	0	0	Bus81	-4.720	-0.408	83.7	99.6	
								Bus87	0.398	0.086	7.2	97.7	
								Bus80	4.755	0.419	83.7	99.6	
Bus81	33.000	99.805	0.0	0	0	0	0	Bus82	0.014	0.010	0.3	81.7	
								Bus83	-4.769	-0.429	83.9	99.6	
								Bus81	-0.014	-0.011	0.3	78.5	
								Bus296	0.014	0.011	0.3	78.5	
* Bus83	33.000	100.000	0.0	4.837	0.444	0	0	Bus81	4.778	0.432	83.9	99.6	
Bus84	33.000	99.999	0.0	0	0	0	0	Bus84	0.024	0.005	0.4	97.9	
								Bus297	0.034	0.007	0.6	97.7	
								Bus83	-0.024	-0.006	0.4	96.9	
								Bus298	0.024	0.006	0.4	96.9	
Bus87	33.000	99.036	-0.2	0	0	0	0	Bus80	-0.398	-0.087	7.2	97.7	
								Bus88	0.059	0.013	1.1	97.8	
								Bus90	0.339	0.074	6.1	97.7	
Bus88	33.000	99.035	-0.2	0	0	0	0	Bus87	-0.059	-0.013	1.1	97.7	
								Bus89	0.019	0.003	0.3	98.8	
								Bus288	0.040	0.010	0.7	97.0	
								Bus88	-0.019	-0.007	0.4	93.7	
Bus89	33.000	99.033	-0.2	0	0	0	0	Bus289	0.019	0.007	0.4	93.7	
								Bus87	-0.339	-0.076	6.1	97.6	
Bus90	33.000	99.022	-0.2	0	0	0	0	Bus91	0.013	0.000	0.2	-100.0	
								Bus92	0.234	0.052	4.2	97.6	
								Bus293	0.092	0.024	1.7	96.9	
								Bus90	-0.013	-0.003	0.2	97.4	
Bus91	33.000	99.021	-0.2	0	0	0	0	Bus290	0.013	0.003	0.2	97.4	
								Bus90	-0.234	-0.055	4.2	97.4	
								Bus93	0.199	0.040	3.6	98.0	
Bus92	33.000	99.006	-0.2	0	0	0	0	Bus291	0.035	0.014	0.7	92.5	
								Bus92	-0.199	-0.042	3.6	97.8	
								Bus94	0.163	0.042	3.0	96.9	

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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	
Bus94	33.000	98.970	-0.2	0	0	0	0	Bus292	0.036	0.000	0.6	100.0		
								Bus93	-0.163	-0.047	3.0	96.1		
								Bus95	0.068	0.026	1.3	93.4		
								Bus294	0.095	0.021	1.7	97.7		
Bus95	33.000	98.962	-0.2	0	0	0	0	Bus94	-0.068	-0.030	1.3	91.7		
								Bus295	0.068	0.030	1.3	91.7		
Bus96	33.000	95.882	-1.0	0	0	0	0	Bus58	-2.395	-0.799	46.1	94.9		
								Bus97	2.395	0.799	46.1	94.9		
Bus97	33.000	95.882	-1.0	0	0	0	0	Bus98	2.395	0.799	46.1	94.9		
								Bus96	-2.395	-0.799	46.1	94.9		
Bus98	33.000	95.860	-1.0	0	0	0	0	Bus97	-2.394	-0.799	46.1	94.9		
								Bus99	0.263	0.100	5.1	93.5		
								Bus112	2.131	0.699	40.9	95.0		
								Bus98	-0.263	-0.100	5.1	93.5		
Bus99	33.000	95.857	-1.0	0	0	0	0	Bus100	0.194	0.072	3.8	93.7		
								Bus303	0.069	0.028	1.4	92.7		
								Bus99	-0.194	-0.074	3.8	93.5		
								Bus101	0.180	0.062	3.5	94.6		
Bus100	33.000	95.849	-1.0	0	0	0	0	Bus304	0.015	0.012	0.3	78.0		
								Bus100	-0.180	-0.069	3.5	93.4		
								Bus102	0.180	0.069	3.5	93.4		
								Bus103	0.180	0.069	3.5	93.4		
Bus101	33.000	95.805	-1.0	0	0	0	0	Bus101	-0.180	-0.069	3.5	93.4		
								Bus102	-0.180	-0.069	3.5	93.4		
								Bus104	0.180	0.073	3.5	92.6		
								Bus111	0.000	-0.004	0.1	0.0		
Bus102	33.000	95.803	-1.0	0	0	0	0	Bus103	-0.180	-0.075	3.6	92.3		
								Bus105	0.137	0.056	2.7	92.5		
								Bus305	0.043	0.018	0.8	91.8		
								Bus104	-0.137	-0.057	2.7	92.2		
Bus103	33.000	95.787	-1.0	0	0	0	0	Bus106	0.095	0.039	1.9	92.3		
								Bus331	0.042	0.018	0.8	92.1		
								Bus105	-0.095	-0.042	1.9	91.5		
								Bus109	0.095	0.042	1.9	91.5		
Bus104	33.000	95.778	-1.0	0	0	0	0	Bus106	-0.095	-0.042	1.9	91.3		
								Bus110	0.047	0.018	0.9	93.3		
								Bus329	0.047	0.024	1.0	89.2		
								Bus109	-0.047	-0.020	0.9	92.1		
Bus105	33.000	95.775	-1.0	0	0	0	0	Bus330	0.047	0.020	0.9	92.1		

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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
Bus111	33.000	95.804	-1.0	0	0	0	0	Bus103	0.000	0.000	0.0	0.0	
								Bus316	0.000	0.000	0.0	0.0	
Bus112	33.000	95.838	-1.0	0	0	0	0	Bus98	-2.131	-0.699	40.9	95.0	
								Bus113	2.131	0.699	40.9	95.0	
Bus113	33.000	95.838	-1.0	0	0	0	0	Bus114	2.131	0.699	40.9	95.0	
								Bus112	-2.131	-0.699	40.9	95.0	
Bus114	33.000	95.344	-1.1	0	0	0	0	Bus113	-2.120	-0.701	41.0	95.0	
								Bus115	0.874	0.318	17.1	94.0	
								Bus116	1.246	0.383	23.9	95.6	
Bus115	33.000	95.334	-1.1	0	0	0	0	Bus114	-0.874	-0.318	17.1	94.0	
								Bus302	0.874	0.318	17.1	94.0	
Bus116	33.000	95.307	-1.1	0	0	0	0	Bus114	-1.245	-0.383	23.9	95.6	
								Bus123	0.681	0.170	12.9	97.0	
								Bus142	0.564	0.213	11.1	93.6	
Bus118	33.000	95.281	-1.1	0	0	0	0	Bus123	-0.300	-0.080	5.7	96.6	
								Bus119	0.188	0.063	3.6	94.8	
								Bus315	0.043	0.006	0.8	99.1	
								Bus313	0.069	0.011	1.3	98.7	
Bus119	33.000	95.280	-1.1	0	0	0	0	Bus118	-0.188	-0.063	3.6	94.8	
								Bus120	0.131	0.037	2.5	96.3	
								Bus325	0.057	0.027	1.2	90.6	
Bus120	33.000	95.279	-1.1	0	0	0	0	Bus119	-0.131	-0.037	2.5	96.3	
								Bus122	0.131	0.037	2.5	96.3	
Bus122	33.000	95.278	-1.1	0	0	0	0	Bus120	-0.131	-0.037	2.5	96.2	
								Bus327	0.074	0.010	1.4	99.0	
								Bus328	0.057	0.027	1.2	90.6	
Bus123	33.000	95.285	-1.1	0	0	0	0	Bus116	-0.681	-0.171	12.9	97.0	
								Bus118	0.300	0.080	5.7	96.6	
								Bus124	0.381	0.091	7.2	97.2	
Bus124	33.000	95.227	-1.1	0	0	0	0	Bus123	-0.381	-0.096	7.2	97.0	
								Bus125	0.379	0.096	7.2	97.0	
								Bus312	0.002	0.000	0.0	100.0	
Bus125	33.000	95.205	-1.1	0	0	0	0	Bus124	-0.379	-0.098	7.2	96.8	
								Bus126	0.335	0.090	6.4	96.6	
								Bus314	0.044	0.007	0.8	98.7	
Bus126	33.000	95.179	-1.1	0	0	0	0	Bus125	-0.335	-0.092	6.4	96.4	
								Bus127	0.057	0.014	1.1	97.3	
								Bus137	0.203	0.056	3.9	96.4	
								Bus317	0.075	0.023	1.4	95.6	

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ID	kV	% Mag.	Ang.	MW	Mvar	MW	Mvar	ID	MW	Mvar	Amp	%PF	%Tap
Bus127	33.000	95.169	-1.1	0	0	0	0	Bus126	-0.057	-0.019	1.1	95.0	
								Bus135	0.057	0.019	1.1	95.0	
Bus135	33.000	95.166	-1.1	0	0	0	0	Bus127	-0.057	-0.020	1.1	94.4	
								Bus319	0.057	0.020	1.1	94.4	
Bus137	33.000	95.161	-1.1	0	0	0	0	Bus126	-0.203	-0.058	3.9	96.1	
								Bus138	0.184	0.044	3.5	97.3	
								Bus320	0.019	0.015	0.4	78.4	
Bus138	33.000	95.145	-1.1	0	0	0	0	Bus137	-0.184	-0.046	3.5	97.0	
								Bus139	0.160	0.040	3.0	97.0	
								Bus322	0.025	0.006	0.5	97.1	
Bus139	33.000	95.124	-1.1	0	0	0	0	Bus138	-0.160	-0.044	3.0	96.5	
								Bus140	0.083	0.021	1.6	96.9	
								Bus321	0.077	0.022	1.5	96.0	
Bus140	33.000	95.122	-1.1	0	0	0	0	Bus139	-0.083	-0.022	1.6	96.6	
								Bus141	0.011	-0.001	0.2	-99.3	
								Bus323	0.072	0.023	1.4	95.1	
Bus141	33.000	95.120	-1.1	0	0	0	0	Bus140	-0.011	-0.004	0.2	93.9	
								Bus324	0.011	0.004	0.2	93.9	
Bus142	33.000	95.296	-1.1	0	0	0	0	Bus116	-0.564	-0.213	11.1	93.5	
								Bus143	0.054	0.021	1.1	93.4	
								Bus144	0.510	0.193	10.0	93.5	
Bus143	33.000	95.295	-1.1	0	0	0	0	Bus142	-0.054	-0.021	1.1	93.3	
								Bus280	0.054	0.021	1.1	93.3	
Bus144	33.000	95.283	-1.1	0	0	0	0	Bus142	-0.510	-0.193	10.0	93.5	
								Bus145	0.420	0.171	8.3	92.6	
								Bus281	0.089	0.022	1.7	97.1	
Bus145	33.000	95.278	-1.1	0	0	0	0	Bus144	-0.420	-0.172	8.3	92.6	
								Bus146	0.310	0.130	6.2	92.2	
								Bus152	0.110	0.041	2.2	93.6	
Bus146	33.000	95.265	-1.1	0	0	0	0	Bus147	0.138	-0.004	2.5	-100.0	
								Bus145	-0.310	-0.131	6.2	92.1	
								Bus149	0.098	0.125	2.9	62.0	
								Bus282	0.074	0.011	1.4	99.0	
Bus147	33.000	95.263	-1.1	0	0	0	0	Bus146	-0.138	-0.017	2.5	99.2	
								Bus148	0.084	0.006	1.5	99.8	
								Bus306	0.054	0.011	1.0	97.9	
Bus148	33.000	95.263	-1.1	0	0	0	0	Bus147	-0.084	-0.014	1.6	98.6	
								Bus283	0.084	0.014	1.6	98.6	
Bus149	33.000	95.262	-1.1	0	0	0	0	Bus146	-0.098	-0.125	2.9	61.7	

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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
Bus150	33.000	95.261	-1.1	0	0	0	0	Bus150	0.055	0.009	1.0	98.5	
								Bus151	0.043	0.116	2.3	35.0	
								Bus149	-0.055	-0.010	1.0	98.4	
								Bus284	0.055	0.010	1.0	98.4	
Bus151	33.000	95.261	-1.1	0	0	0	0	Bus149	-0.043	-0.116	2.3	34.9	
								Bus286	0.022	0.058	1.1	34.9	
								Bus285	0.022	0.058	1.1	34.9	
Bus152	33.000	95.273	-1.1	0	0	0	0	Bus145	-0.110	-0.043	2.2	93.3	
								Bus153	0.030	0.002	0.5	99.8	
								Bus154	0.081	0.041	1.7	89.3	
Bus153	33.000	95.272	-1.1	0	0	0	0	Bus152	-0.030	-0.003	0.5	99.4	
								Bus307	0.030	0.003	0.5	99.4	
Bus154	33.000	95.264	-1.1	0	0	0	0	Bus152	-0.081	-0.044	1.7	87.9	
								Bus155	0.080	0.043	1.7	87.8	
								Bus308	0.001	0.000	0.0	92.8	
Bus155	33.000	95.261	-1.1	0	0	0	0	Bus154	-0.080	-0.044	1.7	87.5	
								Bus156	0.060	0.035	1.3	86.2	
								Bus309	0.020	0.009	0.4	91.2	
Bus156	33.000	95.261	-1.1	0	0	0	0	Bus155	-0.060	-0.035	1.3	86.1	
								Bus157	0.001	0.000	0.0	-98.8	
								Bus310	0.059	0.036	1.3	85.6	
Bus157	33.000	95.261	-1.1	0	0	0	0	Bus156	-0.001	0.000	0.0	92.8	
								Bus311	0.001	0.000	0.0	92.8	
Bus158	33.000	96.072	-1.5	0	0	0	0	Bus17	-5.188	-1.801	100.0	94.5	
								Bus159	0.123	0.039	2.3	95.3	
								Bus160	5.065	1.762	97.7	94.4	
Bus159	33.000	96.069	-1.5	0	0	0	0	Bus158	-0.123	-0.040	2.4	95.2	
								Bus238	0.123	0.040	2.4	95.2	
Bus160	33.000	96.035	-1.5	0	0	0	0	Bus158	-5.063	-1.762	97.7	94.4	
								Bus161	5.042	1.760	97.3	94.4	
Bus161	33.000	95.943	-1.5	0	0	0	0	Bus237	0.021	0.002	0.4	99.5	
								Bus160	-5.038	-1.758	97.3	94.4	
								Bus162	4.866	1.703	94.0	94.4	
Bus162	33.000	95.911	-1.5	0	0	0	0	Bus239	0.171	0.055	3.3	95.2	
								Bus161	-4.865	-1.702	94.0	94.4	
								Bus163	4.865	1.702	94.0	94.4	
Bus163	33.000	95.911	-1.5	0	0	0	0	Bus164	4.865	1.702	94.0	94.4	
								Bus162	-4.865	-1.702	94.0	94.4	
Bus164	33.000	95.694	-1.5	0	0	0	0	Bus163	-4.854	-1.699	94.0	94.4	

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ID	kV	% Mag.	Ang.	MW	Mvar	MW	Mvar	ID	MW	Mvar	Amp	%PF	%Tap
Bus165	33.000	95.654	-1.5	0	0	0	0	Bus165	4.673	1.663	90.7	94.2	
								Bus229	0.182	0.035	3.4	98.2	
								Bus167	4.671	1.663	90.7	94.2	
Bus167	33.000	95.546	-1.5	0	0	0	0	Bus164	-4.671	-1.663	90.7	94.2	
								Bus165	-4.666	-1.661	90.7	94.2	
								Bus168	0.128	0.062	2.6	89.9	
Bus168	33.000	95.545	-1.5	0	0	0	0	Bus169	4.538	1.599	88.1	94.3	
								Bus167	-0.128	-0.062	2.6	89.8	
								Bus332	0.128	0.062	2.6	89.8	
Bus169	33.000	95.471	-1.5	0	0	0	0	Bus167	-4.535	-1.597	88.1	94.3	
								Bus170	4.535	1.597	88.1	94.3	
								Bus171	4.535	1.597	88.1	94.3	
Bus170	33.000	95.471	-1.5	0	0	0	0	Bus169	-4.535	-1.597	88.1	94.3	
								Bus170	-4.535	-1.597	88.1	94.3	
								Bus171	-4.535	-1.597	88.1	94.3	
Bus171	33.000	95.361	-1.6	0	0	0	0	Bus170	-4.530	-1.596	88.1	94.3	
								Bus173	1.039	0.285	19.8	96.4	
								Bus353	3.459	1.300	67.8	93.6	
Bus173	33.000	95.337	-1.6	0	0	0	0	Bus333	0.032	0.010	0.6	95.3	
								Bus174	0.037	0.003	0.7	99.6	
								Bus178	1.001	0.283	19.1	96.2	
Bus174	33.000	95.333	-1.6	0	0	0	0	Bus171	-1.039	-0.286	19.8	96.4	
								Bus173	-0.037	-0.007	0.7	98.5	
								Bus175	0.037	0.007	0.7	98.5	
Bus175	33.000	95.330	-1.6	0	0	0	0	Bus174	-0.037	-0.009	0.7	97.2	
								Bus176	0.033	0.008	0.6	97.2	
								Bus335	0.004	0.001	0.1	97.0	
Bus176	33.000	95.329	-1.6	0	0	0	0	Bus175	-0.033	-0.009	0.6	96.4	
								Bus177	0.033	0.009	0.6	96.4	
								Bus176	-0.033	-0.010	0.6	95.8	
Bus177	33.000	95.328	-1.6	0	0	0	0	Bus336	0.033	0.010	0.6	95.8	
								Bus173	-1.001	-0.283	19.1	96.2	
								Bus179	0.935	0.252	17.8	96.5	
Bus178	33.000	95.318	-1.6	0	0	0	0	Bus334	0.066	0.031	1.3	90.6	
								Bus178	-0.935	-0.254	17.8	96.5	
								Bus180	0.033	0.006	0.6	98.5	
Bus179	33.000	95.263	-1.6	0	0	0	0	Bus181	0.901	0.248	17.2	96.4	
								Bus179	-0.033	-0.007	0.6	97.9	
								Bus337	0.033	0.007	0.6	97.9	
Bus180	33.000	95.262	-1.6	0	0	0	0	Bus179	-0.900	-0.251	17.2	96.3	
								Bus182	0.853	0.238	16.3	96.3	
Bus181	33.000	95.145	-1.6	0	0	0	0						

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ID	kV	% Mag.	Ang.	MW	Mvar	MW	Mvar	ID	MW	Mvar	Amp	%PF	%Tap	
Bus182	33.000	95.068	-1.6	0	0	0	0	Bus338	0.047	0.013	0.9	96.5		
								Bus181	-0.852	-0.241	16.3	96.2		
								Bus183	0.094	0.029	1.8	95.4		
Bus183	33.000	95.067	-1.6	0	0	0	0	Bus184	0.759	0.211	14.5	96.3		
								Bus182	-0.094	-0.030	1.8	95.3		
								Bus339	0.094	0.030	1.8	95.3		
Bus184	33.000	95.059	-1.6	0	0	0	0	Bus185	0.705	0.200	13.5	96.2		
								Bus182	-0.759	-0.212	14.5	96.3		
								Bus340	0.054	0.011	1.0	97.9		
Bus185	33.000	95.035	-1.6	0	0	0	0	Bus184	-0.704	-0.201	13.5	96.2		
								Bus186	0.074	0.019	1.4	96.9		
								Bus187	0.046	0.014	0.9	95.8		
Bus186	33.000	95.034	-1.6	0	0	0	0	Bus188	0.584	0.168	11.2	96.1		
								Bus185	-0.074	-0.019	1.4	96.7		
								Bus341	0.074	0.019	1.4	96.7		
Bus187	33.000	95.034	-1.6	0	0	0	0	Bus185	-0.046	-0.015	0.9	95.4		
								Bus342	0.046	0.015	0.9	95.4		
								Bus188	-0.584	-0.170	11.2	96.0		
Bus188	33.000	94.999	-1.6	0	0	0	0	Bus185	-0.584	-0.170	11.2	96.0		
								Bus189	0.388	0.122	7.5	95.4		
								Bus194	0.121	0.028	2.3	97.4		
Bus189	33.000	94.982	-1.6	0	0	0	0	Bus343	0.075	0.020	1.4	96.7		
								Bus188	-0.388	-0.123	7.5	95.3		
								Bus190	0.250	0.079	4.8	95.4		
Bus190	33.000	94.980	-1.6	0	0	0	0	Bus344	0.138	0.045	2.7	95.1		
								Bus189	-0.250	-0.079	4.8	95.4		
								Bus191	0.212	0.069	4.1	95.1		
Bus191	33.000	94.971	-1.6	0	0	0	0	Bus193	0.037	0.010	0.7	96.8		
								Bus190	-0.212	-0.070	4.1	94.9		
								Bus192	0.143	0.052	2.8	94.1		
Bus192	33.000	94.963	-1.6	0	0	0	0	Bus345	0.069	0.019	1.3	96.5		
								Bus191	-0.143	-0.053	2.8	93.8		
								Bus347	0.143	0.053	2.8	93.8		
Bus193	33.000	94.978	-1.6	0	0	0	0	Bus190	-0.037	-0.011	0.7	95.9		
								Bus346	0.037	0.011	0.7	95.9		
								Bus188	-0.121	-0.028	2.3	97.4		
Bus194	33.000	94.999	-1.6	0	0	0	0	Bus195	0.121	0.028	2.3	97.4		
								Bus196	0.121	0.028	2.3	97.4		
								Bus194	-0.121	-0.028	2.3	97.4		
Bus195	33.000	94.999	-1.6	0	0	0	0	Bus195	-0.121	-0.030	2.3	97.0		

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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
Bus197	33.000	94.976	-1.6	0	0	0	0	Bus197	0.105	0.025	2.0	97.2	
								Bus348	0.016	0.005	0.3	95.4	
								Bus196	-0.105	-0.029	2.0	96.4	
								Bus198	0.016	-0.003	0.3	-97.8	
Bus198	33.000	94.975	-1.6	0	0	0	0	Bus201	0.089	0.032	1.8	94.0	
								Bus197	-0.016	0.002	0.3	-99.4	
								Bus199	0.008	-0.005	0.2	-86.1	
								Bus349	0.008	0.003	0.2	93.6	
Bus199	33.000	94.974	-1.6	0	0	0	0	Bus198	-0.008	-0.002	0.1	97.0	
								Bus350	0.008	0.002	0.1	97.0	
Bus201	33.000	94.973	-1.6	0	0	0	0	Bus197	-0.089	-0.033	1.8	93.8	
								Bus202	0.079	0.030	1.5	93.6	
								Bus203	0.011	0.004	0.2	94.9	
Bus202	33.000	94.973	-1.6	0	0	0	0	Bus201	-0.079	-0.030	1.5	93.5	
								Bus351	0.079	0.030	1.5	93.5	
								Bus201	-0.011	-0.006	0.2	87.8	
Bus203	33.000	94.973	-1.6	0	0	0	0	Bus352	0.011	0.006	0.2	87.8	
								Bus164	-0.180	-0.033	279.1	98.3	
Bus229	0.400	94.834	-2.1	0	0	0.180	0.033	Bus6	-0.031	-0.021	54.3	82.8	
Bus230	0.400	99.104	-0.2	0	0	0.031	0.021	Bus7	-0.127	-0.041	196.3	95.2	
Bus231	0.400	98.095	-0.9	0	0	0.127	0.041	Bus8	-0.024	-0.008	36.9	94.9	
Bus233	0.400	98.414	-0.3	0	0	0.024	0.008	Bus13	-0.083	-0.019	129.5	97.6	
Bus234	0.400	95.293	-2.4	0	0	0.083	0.019	Bus14	-0.086	-0.023	133.3	96.7	
Bus235	0.400	95.822	-1.9	0	0	0.086	0.023	Bus160	-0.021	-0.002	31.3	99.5	
Bus237	0.400	95.816	-1.7	0	0	0.021	0.002	Bus159	-0.121	-0.037	194.0	95.6	
Bus238	0.400	94.395	-2.3	0	0	0.121	0.037	Bus161	-0.169	-0.052	270.5	95.6	
Bus239	0.400	94.485	-2.2	0	0	0.169	0.052	Bus16	-0.019	-0.006	29.5	95.4	
Bus240	0.400	95.895	-1.6	0	0	0.019	0.006	Bus18	-0.106	-0.031	168.2	95.9	
Bus246	0.400	94.603	-2.2	0	0	0.106	0.031	Bus21	-0.179	-0.041	280.5	97.5	
Bus247	0.400	94.600	-2.3	0	0	0.179	0.041	Bus25	-0.088	-0.019	136.5	97.8	
Bus248	0.400	95.588	-1.7	0	0	0.088	0.019	Bus28	-0.121	-0.038	194.5	95.4	
Bus249	0.400	94.318	-2.3	0	0	0.121	0.038	Bus29	-0.127	-0.043	204.6	94.7	
Bus250	0.400	94.879	-2.0	0	0	0.127	0.043	Bus30	-0.122	-0.025	190.9	97.9	
Bus251	0.400	94.461	-2.3	0	0	0.122	0.025	Bus33	-0.009	-0.002	13.7	97.6	
Bus252	0.400	95.703	-1.6	0	0	0.009	0.002	Bus34	-0.029	0.000	44.5	100.0	
Bus253	0.400	95.700	-1.7	0	0	0.029	0.000	Bus36	-0.026	-0.007	40.0	96.6	
Bus254	0.400	95.603	-1.6	0	0	0.026	0.007	Bus37	-0.029	-0.020	53.5	83.2	
Bus255	0.400	95.588	-1.5	0	0	0.029	0.020	Bus40	-0.136	-0.063	227.9	90.8	
Bus256	0.400	95.068	-1.7	0	0	0.136	0.063	Bus39	-0.001	0.000	1.5	98.1	
Bus257	0.400	95.919	-1.4	0	0	0	0						

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ID	kV	% Mag.	Ang.	MW	Mvar	MW	Mvar	ID	MW	Mvar	Amp	%PF	%Tap
Bus258	0.400	95.086	-1.7	0	0	0.057	0.022	Bus41	-0.057	-0.022	92.4	93.5	
Bus259	0.400	94.825	-1.9	0	0	0.136	0.031	Bus42	-0.136	-0.031	212.7	97.5	
Bus260	0.400	95.649	-1.4	0	0	0.017	0.007	Bus43	-0.017	-0.007	27.3	92.5	
Bus261	0.400	95.672	-1.4	0	0	0.007	0.002	Bus44	-0.007	-0.002	10.8	96.2	
Bus262	0.400	94.679	-1.8	0	0	0.130	0.052	Bus45	-0.130	-0.052	213.7	92.9	
Bus263	0.400	95.623	-1.3	0	0	0.022	0.007	Bus46	-0.022	-0.007	34.3	95.3	
Bus264	0.400	95.587	-1.3	0	0	0.009	0.004	Bus55	-0.009	-0.004	14.6	91.4	
Bus268	0.400	95.703	-1.2	0	0	0.011	0.008	Bus56	-0.011	-0.008	20.2	80.9	
Bus269	0.400	95.453	-1.4	0	0	0.114	0.010	Bus57	-0.114	-0.010	172.9	99.6	
Bus270	0.400	94.696	-1.7	0	0	0.096	0.026	Bus60	-0.096	-0.026	151.7	96.4	
Bus271	0.400	94.867	-1.5	0	0	0.123	0.048	Bus61	-0.123	-0.048	201.6	93.2	
Bus272	0.400	95.704	-1.3	0	0	0.067	0.009	Bus67	-0.067	-0.009	101.7	99.1	
Bus273	0.400	96.537	-0.9	0	0	0.035	0.017	Bus68	-0.035	-0.017	57.4	90.0	
Bus274	0.400	96.315	-1.1	0	0	0.083	0.021	Bus69	-0.083	-0.021	127.9	97.0	
Bus275	0.400	95.702	-1.4	0	0	0.042	0.011	Bus71	-0.042	-0.011	65.8	96.9	
Bus276	0.400	95.575	-1.1	0	0	0.201	0.130	Bus72	-0.201	-0.130	361.8	84.1	
Bus277	0.400	97.357	-0.7	0	0	0.084	0.039	Bus74	-0.084	-0.039	137.2	90.9	
Bus278	0.400	96.382	-1.2	0	0	0.079	0.030	Bus75	-0.079	-0.030	126.1	93.6	
Bus279	0.400	97.829	-0.5	0	0	0.023	0.018	Bus77	-0.023	-0.018	42.7	78.8	
Bus280	0.400	94.799	-1.3	0	0	0.054	0.021	Bus143	-0.054	-0.021	87.8	93.4	
Bus281	0.400	94.830	-1.3	0	0	0.089	0.022	Bus144	-0.089	-0.022	139.6	97.2	
Bus282	0.400	94.433	-1.7	0	0	0.073	0.010	Bus146	-0.073	-0.010	113.1	99.1	
Bus283	0.400	94.876	-1.3	0	0	0.083	0.014	Bus148	-0.083	-0.014	128.4	98.7	
Bus284	0.400	94.853	-1.3	0	0	0.055	0.010	Bus150	-0.055	-0.010	84.8	98.4	
Bus285	0.400	94.937	-1.1	0	0	0.022	0.058	Bus151	-0.022	-0.058	93.8	34.9	
Bus286	0.400	94.937	-1.1	0	0	0.022	0.058	Bus151	-0.022	-0.058	93.8	34.9	
Bus287	0.400	98.418	-0.5	0	0	0.008	0.002	Bus79	-0.008	-0.002	12.0	97.0	
Bus288	0.400	96.583	-1.6	0	0	0.039	0.009	Bus88	-0.039	-0.009	60.4	97.6	
Bus289	0.400	98.370	-0.5	0	0	0.019	0.007	Bus89	-0.019	-0.007	29.5	93.8	
Bus290	0.400	98.923	-0.3	0	0	0.013	0.003	Bus91	-0.013	-0.003	19.4	97.4	
Bus291	0.400	97.742	-0.7	0	0	0.035	0.014	Bus92	-0.035	-0.014	55.2	92.8	
Bus292	0.400	98.179	-0.9	0	0	0.036	0.000	Bus93	-0.036	0.000	52.5	100.0	
Bus293	0.400	98.311	-0.6	0	0	0.091	0.023	Bus90	-0.091	-0.023	138.3	97.0	
Bus294	0.400	98.266	-0.6	0	0	0.094	0.020	Bus94	-0.094	-0.020	141.6	97.9	
Bus295	0.400	97.958	-0.6	0	0	0.067	0.029	Bus95	-0.067	-0.029	108.0	92.0	
Bus296	0.400	99.379	-0.1	0	0	0.014	0.011	Bus82	-0.014	-0.011	25.8	78.6	
Bus297	0.400	99.002	-0.6	0	0	0.034	0.007	Bus83	-0.034	-0.007	50.4	97.9	
Bus298	0.400	99.706	-0.2	0	0	0.024	0.006	Bus84	-0.024	-0.006	35.8	97.0	
Bus299	0.400	96.483	-0.9	0	0	0.067	0.026	Bus73	-0.067	-0.026	107.4	93.4	

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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
Bus300	0.400	95.365	-1.3	0	0	0.078	0.026	Bus63	-0.078	-0.026	123.6	95.0	
Bus301	0.400	95.149	-1.4	0	0	0.063	0.022	Bus66	-0.063	-0.022	100.7	94.6	
Bus302	0.400	67.928	-21.0	0	0	0.663	0.001	Bus115	-0.663	-0.001	1408.6	100.0	
Bus303	0.400	95.451	-1.2	0	0	0.069	0.028	Bus99	-0.069	-0.028	112.0	92.8	
Bus304	0.400	95.548	-1.1	0	0	0.015	0.012	Bus100	-0.015	-0.012	28.5	78.1	
Bus305	0.400	94.174	-1.7	0	0	0.042	0.018	Bus104	-0.042	-0.018	69.8	92.2	
Bus306	0.400	94.604	-1.5	0	0	0.054	0.011	Bus147	-0.054	-0.011	83.8	98.1	
Bus307	0.400	94.776	-1.4	0	0	0.029	0.003	Bus153	-0.029	-0.003	45.0	99.5	
Bus308	0.400	95.258	-1.1	0	0	0	0	Bus154	-0.001	0.000	1.6	92.8	
Bus309	0.400	95.140	-1.1	0	0	0.020	0.009	Bus155	-0.020	-0.009	32.6	91.2	
Bus310	0.400	94.846	-1.2	0	0	0.059	0.035	Bus156	-0.059	-0.035	104.3	85.7	
Bus311	0.400	95.255	-1.1	0	0	0	0	Bus157	-0.001	0.000	1.6	92.8	
Bus312	0.400	95.183	-1.1	0	0	0.002	0.000	Bus124	-0.002	0.000	2.8	100.0	
Bus313	0.400	94.784	-1.4	0	0	0.069	0.011	Bus118	-0.069	-0.011	105.7	98.8	
Bus314	0.400	94.403	-1.6	0	0	0.044	0.007	Bus125	-0.044	-0.007	68.1	98.8	
Bus315	0.400	95.089	-1.2	0	0	0.043	0.006	Bus118	-0.043	-0.006	66.1	99.1	
Bus316	0.400	95.804	-1.0	0	0	0	0	Bus111	0.000	0.000	0.0	0.0	
Bus317	0.400	94.543	-1.4	0	0	0.074	0.023	Bus126	-0.074	-0.023	118.7	95.7	
Bus319	0.400	94.660	-1.3	0	0	0.057	0.020	Bus135	-0.057	-0.020	91.6	94.5	
Bus320	0.400	94.565	-1.2	0	0	0.019	0.015	Bus137	-0.019	-0.015	36.2	78.5	
Bus321	0.400	94.097	-1.6	0	0	0.076	0.021	Bus139	-0.076	-0.021	121.5	96.2	
Bus322	0.400	94.360	-1.5	0	0	0.024	0.006	Bus138	-0.024	-0.006	38.5	97.2	
Bus323	0.400	94.128	-1.6	0	0	0.071	0.022	Bus140	-0.071	-0.022	114.7	95.4	
Bus324	0.400	94.876	-1.2	0	0	0.011	0.004	Bus141	-0.011	-0.004	17.5	94.0	
Bus325	0.400	94.921	-1.2	0	0	0.057	0.026	Bus119	-0.057	-0.026	95.4	90.7	
Bus327	0.400	94.760	-1.4	0	0	0.073	0.010	Bus122	-0.073	-0.010	112.9	99.1	
Bus328	0.400	94.919	-1.2	0	0	0.057	0.026	Bus122	-0.057	-0.026	95.4	90.7	
Bus329	0.400	95.007	-1.3	0	0	0.047	0.024	Bus109	-0.047	-0.024	79.9	89.4	
Bus330	0.400	95.060	-1.3	0	0	0.047	0.020	Bus110	-0.047	-0.020	77.4	92.3	
Bus331	0.400	95.387	-1.2	0	0	0.042	0.018	Bus105	-0.042	-0.018	69.3	92.2	
Bus332	0.400	93.496	-2.3	0	0	0.126	0.059	Bus168	-0.126	-0.059	214.7	90.4	
Bus333	0.400	94.685	-1.9	0	0	0.031	0.010	Bus171	-0.031	-0.010	50.0	95.4	
Bus334	0.400	94.593	-1.8	0	0	0.066	0.030	Bus178	-0.066	-0.030	110.3	90.8	
Bus335	0.400	95.251	-1.6	0	0	0.004	0.001	Bus175	-0.004	-0.001	6.1	97.0	
Bus336	0.400	94.623	-1.9	0	0	0.033	0.010	Bus177	-0.033	-0.010	52.9	95.9	
Bus337	0.400	94.853	-1.8	0	0	0.033	0.007	Bus180	-0.033	-0.007	51.8	97.9	
Bus338	0.400	94.899	-1.7	0	0	0.047	0.013	Bus181	-0.047	-0.013	74.1	96.5	
Bus339	0.400	93.782	-2.2	0	0	0.093	0.028	Bus183	-0.093	-0.028	149.2	95.6	
Bus340	0.400	94.399	-2.0	0	0	0.054	0.011	Bus184	-0.054	-0.011	83.9	98.1	

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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
Bus341	0.400	94.076	-2.1	0	0	0.073	0.019	Bus186	-0.073	-0.019	116.0	96.9	
Bus342	0.400	93.452	-2.4	0	0	0.046	0.014	Bus187	-0.046	-0.014	73.8	95.8	
Bus343	0.400	93.478	-2.4	0	0	0.074	0.019	Bus188	-0.074	-0.019	117.9	97.0	
Bus344	0.400	93.071	-2.5	0	0	0.136	0.042	Bus189	-0.136	-0.042	221.0	95.6	
Bus345	0.400	93.560	-2.4	0	0	0.068	0.018	Bus191	-0.068	-0.018	108.7	96.8	
Bus346	0.400	94.476	-1.9	0	0	0.037	0.011	Bus193	-0.037	-0.011	59.1	96.1	
Bus347	0.400	92.892	-2.5	0	0	0.141	0.050	Bus192	-0.141	-0.050	232.3	94.3	
Bus348	0.400	94.652	-1.8	0	0	0.016	0.005	Bus196	-0.016	-0.005	25.0	95.4	
Bus349	0.400	94.796	-1.7	0	0	0.008	0.003	Bus198	-0.008	-0.003	12.7	93.6	
Bus350	0.400	94.816	-1.7	0	0	0.008	0.002	Bus199	-0.008	-0.002	12.3	97.0	
Bus351	0.400	94.516	-1.8	0	0	0.078	0.029	Bus202	-0.078	-0.029	127.7	93.6	
Bus352	0.400	94.900	-1.6	0	0	0.011	0.006	Bus203	-0.011	-0.006	18.7	87.8	
Bus353	33.000	95.154	-1.6	0	0	0	0	Bus171	-3.452	-1.298	67.8	93.6	
								Bus354	3.452	1.298	67.8	93.6	
Bus354	33.000	95.154	-1.6	0	0	0	0	Bus355	3.452	1.298	67.8	93.6	
								Bus353	-3.452	-1.298	67.8	93.6	
Bus355	33.000	94.875	-1.6	0	0	0	0	Bus354	-3.442	-1.296	67.8	93.6	
								Bus356	0.062	0.029	1.3	90.4	
								Bus358	3.380	1.267	66.6	93.6	
Bus356	33.000	94.874	-1.6	0	0	0	0	Bus355	-0.062	-0.030	1.3	90.1	
								Bus357	0.062	0.030	1.3	90.1	
Bus357	0.400	94.252	-1.8	0	0	0.062	0.029	Bus356	-0.062	-0.029	104.5	90.3	
Bus358	33.000	94.808	-1.6	0	0	0	0	Bus355	-3.378	-1.266	66.6	93.6	
								Bus359	0.003	0.001	0.1	95.3	
								Bus361	3.375	1.265	66.5	93.6	
Bus359	33.000	94.808	-1.6	0	0	0	0	Bus358	-0.003	-0.001	0.1	89.4	
								Bus360	0.003	0.001	0.1	89.4	
Bus360	0.400	94.567	-1.7	0	0	0.003	0.001	Bus359	-0.003	-0.001	5.0	89.4	
Bus361	33.000	94.707	-1.6	0	0	0	0	Bus358	-3.372	-1.264	66.5	93.6	
								Bus362	0.000	-0.001	0.0	0.0	
								Bus363	3.372	1.265	66.5	93.6	
Bus362	33.000	94.707	-1.6	0	0	0	0	Bus361	0.000	0.000	0.0	0.0	
Bus363	33.000	94.582	-1.6	0	0	0	0	Bus361	-3.367	-1.264	66.5	93.6	
								Bus365	3.269	1.202	64.4	93.9	
								Bus364	0.098	0.062	2.1	84.7	
Bus364	0.400	93.464	-1.9	0	0	0.097	0.060	Bus363	-0.097	-0.060	177.1	85.0	
Bus365	33.000	94.471	-1.6	0	0	0	0	Bus363	-3.265	-1.201	64.4	93.9	
								Bus366	0.981	0.493	20.3	89.3	
								Bus444	2.285	0.708	44.3	95.5	

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ID	kV	% Mag.	Ang.	MW	Mvar	MW	Mvar	ID	MW	Mvar	Amp	%PF	%Tap
Bus366	33.000	94.454	-1.6	0	0	0	0	Bus365	-0.980	-0.493	20.3	89.3	
								Bus367	0.729	0.374	15.2	89.0	
								Bus436	0.251	0.120	5.1	90.3	
Bus367	33.000	94.417	-1.6	0	0	0	0	Bus366	-0.729	-0.375	15.2	88.9	
								Bus368	0.729	0.375	15.2	88.9	
Bus368	33.000	94.417	-1.6	0	0	0	0	Bus369	0.729	0.375	15.2	88.9	
								Bus367	-0.729	-0.375	15.2	88.9	
Bus369	33.000	94.402	-1.6	0	0	0	0	Bus368	-0.729	-0.375	15.2	88.9	
								Bus370	0.660	0.348	13.8	88.5	
								Bus434	0.069	0.028	1.4	92.7	
Bus370	33.000	94.386	-1.6	0	0	0	0	Bus369	-0.660	-0.348	13.8	88.5	
								Bus371	0.266	0.153	5.7	86.7	
								Bus373	0.132	0.067	2.7	89.3	
								Bus378	0.196	0.108	4.1	87.7	
								Bus379	0.066	0.021	1.3	95.3	
Bus371	33.000	94.354	-1.6	0	0	0	0	Bus370	-0.266	-0.156	5.7	86.2	
								Bus372	0.266	0.156	5.7	86.2	
Bus372	0.400	92.491	-2.2	0	0	0.262	0.151	Bus371	-0.262	-0.151	471.8	86.7	
Bus373	33.000	94.384	-1.6	0	0	0	0	Bus370	-0.132	-0.067	2.7	89.3	
								Bus374	0.132	0.067	2.7	89.3	
Bus374	33.000	94.373	-1.6	0	0	0	0	Bus373	-0.132	-0.069	2.8	88.7	
								Bus376	0.029	0.015	0.6	89.7	
								Bus375	0.103	0.054	2.2	88.4	
Bus375	0.400	93.685	-1.8	0	0	0.102	0.054	Bus374	-0.102	-0.054	178.2	88.6	
Bus376	33.000	94.369	-1.6	0	0	0	0	Bus374	-0.029	-0.018	0.6	85.6	
								Bus377	0.029	0.018	0.6	85.6	
Bus377	0.400	93.843	-1.8	0	0	0.029	0.018	Bus376	-0.029	-0.018	52.5	85.7	
Bus378	0.400	92.291	-2.3	0	0	0.193	0.103	Bus370	-0.193	-0.103	342.2	88.3	
Bus379	0.400	94.025	-1.8	0	0	0.065	0.021	Bus370	-0.065	-0.021	105.3	95.4	
Bus434	33.000	94.400	-1.6	0	0	0	0	Bus369	-0.069	-0.029	1.4	92.3	
								Bus435	0.069	0.029	1.4	92.3	
Bus435	0.400	93.984	-1.8	0	0	0.068	0.028	Bus434	-0.068	-0.028	113.6	92.4	
Bus436	33.000	94.451	-1.6	0	0	0	0	Bus366	-0.251	-0.120	5.2	90.2	
								Bus438	0.180	0.079	3.7	91.5	
								Bus437	0.071	0.040	1.5	86.8	
Bus437	0.400	93.962	-1.8	0	0	0.070	0.040	Bus436	-0.070	-0.040	124.3	86.9	
Bus438	33.000	94.439	-1.6	0	0	0	0	Bus436	-0.180	-0.081	3.7	91.2	
								Bus439	0.094	0.058	2.0	85.2	
								Bus442	0.066	0.018	1.3	96.6	

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ID	kV	% Mag.	Ang.	MW	Mvar	MW	Mvar	ID	MW	Mvar	Amp	%PF	%Tap
Bus439	33.000	94.437	-1.6	0	0	0	0	Bus441	0.021	0.006	0.4	96.1	
								Bus438	-0.094	-0.058	2.1	85.0	
								Bus440	0.094	0.058	2.1	85.0	
Bus440	0.400	93.760	-1.8	0	0	0.094	0.058	Bus439	-0.094	-0.058	169.3	85.2	
Bus441	0.400	94.266	-1.7	0	0	0.021	0.006	Bus438	-0.021	-0.006	32.7	96.2	
Bus442	33.000	94.431	-1.6	0	0	0	0	Bus438	-0.066	-0.021	1.3	95.3	
								Bus443	0.066	0.021	1.3	95.3	
								Bus442	-0.065	-0.021	105.3	95.4	
Bus443	0.400	94.070	-1.8	0	0	0.065	0.021	Bus442	-0.065	-0.021	105.3	95.4	
Bus444	33.000	94.413	-1.6	0	0	0	0	Bus365	-2.283	-0.708	44.3	95.5	
								Bus446	0.114	0.071	2.5	84.8	
								Bus450	2.170	0.637	41.9	95.9	
Bus446	33.000	94.408	-1.6	0	0	0	0	Bus444	-0.114	-0.072	2.5	84.4	
								Bus448	0.114	0.072	2.5	84.4	
								Bus446	-0.114	-0.073	2.5	84.1	
Bus448	33.000	94.404	-1.6	0	0	0	0	Bus446	-0.114	-0.073	2.5	84.1	
Bus449	0.400	93.570	-1.8	0	0	0.113	0.072	Bus449	0.114	0.073	2.5	84.1	
								Bus448	-0.113	-0.072	207.0	84.3	
								Bus444	-2.169	-0.637	41.9	95.9	
Bus450	33.000	94.387	-1.6	0	0	0	0	Bus451	0.034	0.018	0.7	88.7	
								Bus453	2.135	0.619	41.2	96.0	
								Bus450	-0.034	-0.019	0.7	87.6	
Bus451	33.000	94.385	-1.6	0	0	0	0	Bus452	0.034	0.019	0.7	87.6	
								Bus451	-0.034	-0.019	59.9	87.9	
								Bus450	-2.133	-0.619	41.2	96.0	
Bus452	0.400	93.466	-1.9	0	0	0.034	0.019	Bus451	-0.034	-0.019	59.9	87.9	
Bus453	33.000	94.291	-1.6	0	0	0	0	Bus450	-2.133	-0.619	41.2	96.0	
								Bus454	1.102	0.370	21.6	94.8	
								Bus500	1.030	0.250	19.7	97.2	
Bus454	33.000	94.247	-1.6	0	0	0	0	Bus453	-1.102	-0.371	21.6	94.8	
								Bus455	0.214	0.079	4.2	93.8	
								Bus460	0.888	0.292	17.4	95.0	
Bus455	33.000	94.242	-1.6	0	0	0	0	Bus454	-0.214	-0.080	4.2	93.7	
								Bus457	0.057	0.016	1.1	96.3	
								Bus456	0.078	0.032	1.6	92.6	
Bus456	0.400	93.500	-1.9	0	0	0.078	0.031	Bus458	0.078	0.032	1.6	92.6	
								Bus455	-0.078	-0.031	129.7	92.8	
								Bus457	-0.057	-0.018	1.1	95.4	
Bus457	33.000	94.237	-1.6	0	0	0	0	Bus455	-0.057	-0.018	1.1	95.4	
Bus458	0.400	93.500	-1.9	0	0	0.078	0.031	Bus459	0.057	0.018	1.1	95.4	
								Bus455	-0.078	-0.031	129.7	92.8	
								Bus457	-0.057	-0.018	91.2	95.5	
Bus459	0.400	93.746	-1.9	0	0	0.057	0.018	Bus457	-0.057	-0.018	91.2	95.5	
Bus460	33.000	94.188	-1.6	0	0	0	0	Bus454	-0.888	-0.293	17.4	95.0	
								Bus461	0.743	0.228	14.4	95.6	

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ID	kV	% Mag.	Ang.	MW	Mvar	MW	Mvar	ID	MW	Mvar	Amp	%PF	%Tap	
Bus461	33.000	94.182	-1.6	0	0	0	0	Bus490	0.067	0.027	1.3	92.8		
								Bus492	0.078	0.038	1.6	89.9		
								Bus460	-0.743	-0.228	14.4	95.6		
								Bus470	0.542	0.176	10.6	95.1		
								Bus462	0.201	0.052	3.9	96.8		
Bus462	33.000	94.178	-1.6	0	0	0	0	Bus464	0.166	0.041	3.2	97.1		
								Bus461	-0.201	-0.053	3.9	96.7		
								Bus463	0.035	0.012	0.7	94.7		
								Bus462	-0.035	-0.012	57.0	94.9		
Bus464	33.000	94.171	-1.6	0	0	0	0	Bus462	-0.166	-0.042	3.2	96.9		
Bus465	0.400	93.354	-2.1	0	0	0.097	0.026	Bus466	0.068	0.015	1.3	97.6		
								Bus465	0.098	0.027	1.9	96.3		
								Bus464	-0.097	-0.026	156.0	96.5		
								Bus466	-0.068	-0.016	1.3	97.3		
								Bus468	0.038	0.006	0.7	98.7		
Bus467	0.400	93.908	-1.8	0	0	0.029	0.010	Bus467	0.029	0.010	0.6	94.8		
								Bus466	-0.029	-0.010	47.5	94.9		
								Bus468	-0.038	-0.008	0.7	97.9		
Bus468	33.000	94.165	-1.6	0	0	0	0	Bus466	-0.038	-0.008	0.7	97.9		
								Bus469	0.038	0.008	0.7	97.9		
								Bus468	-0.038	-0.008	59.8	98.0		
Bus469	0.400	93.693	-1.9	0	0	0.038	0.008	Bus468	-0.038	-0.008	59.8	98.0		
Bus470	33.000	94.142	-1.6	0	0	0	0	Bus461	-0.541	-0.178	10.6	95.0		
								Bus472	0.388	0.120	7.6	95.6		
								Bus471	0.153	0.058	3.0	93.5		
								Bus470	-0.152	-0.056	250.9	93.7		
Bus471	0.400	93.246	-2.0	0	0	0.152	0.056	Bus470	-0.152	-0.056	250.9	93.7		
								Bus474	0.299	0.098	5.8	95.0		
								Bus473	0.089	0.024	1.7	96.7		
								Bus472	-0.089	-0.022	141.8	97.0		
Bus472	33.000	94.111	-1.6	0	0	0	0	Bus472	-0.299	-0.101	5.9	94.7		
								Bus476	0.264	0.092	5.2	94.4		
								Bus475	0.035	0.009	0.7	97.0		
								Bus474	-0.035	-0.009	55.7	97.0		
Bus473	0.400	92.939	-2.3	0	0	0.089	0.022	Bus474	-0.264	-0.092	5.2	94.4		
								Bus477	0.264	0.092	5.2	94.4		
								Bus478	0.264	0.092	5.2	94.4		
Bus474	33.000	94.081	-1.6	0	0	0	0	Bus476	-0.264	-0.092	5.2	94.4		
								Bus475	0.035	0.009	0.7	97.0		
								Bus474	-0.035	-0.009	55.7	97.0		
								Bus477	0.264	0.092	5.2	94.4		
Bus475	0.400	93.900	-1.7	0	0	0.035	0.009	Bus474	-0.035	-0.009	55.7	97.0		
								Bus474	-0.264	-0.092	5.2	94.4		
								Bus477	0.264	0.092	5.2	94.4		
Bus476	33.000	94.080	-1.6	0	0	0	0	Bus478	0.264	0.092	5.2	94.4		
								Bus476	-0.264	-0.092	5.2	94.4		
								Bus477	-0.264	-0.092	5.2	94.4		
Bus477	33.000	94.080	-1.6	0	0	0	0	Bus477	-0.264	-0.095	5.2	94.1		
								Bus479	0.071	0.027	1.4	93.6		
								Bus481	0.074	0.017	1.4	97.5		

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ID	kV	% Mag.	Ang.	MW	Mvar	MW	Mvar	ID	MW	Mvar	Amp	%PF	%Tap	
Bus479	33.000	94.051	-1.6	0	0	0	0	Bus485	0.119	0.051	2.4	91.7		
								Bus478	-0.071	-0.027	1.4	93.5		
								Bus480	0.071	0.027	1.4	93.5		
Bus480	0.400	93.399	-1.9	0	0	0.070	0.026	Bus479	-0.070	-0.026	115.8	93.6		
Bus481	33.000	94.049	-1.6	0	0	0	0	Bus478	-0.074	-0.018	1.4	97.2		
								Bus482	0.074	0.018	1.4	97.2		
								Bus481	-0.074	-0.018	117.6	97.3		
Bus482	0.400	93.451	-2.0	0	0	0.074	0.018	Bus481	-0.074	-0.018	117.6	97.3		
Bus485	33.000	94.050	-1.6	0	0	0	0	Bus478	-0.119	-0.052	2.4	91.6		
								Bus486	0.098	0.045	2.0	90.8		
								Bus488	0.021	0.007	0.4	95.3		
Bus486	33.000	94.047	-1.6	0	0	0	0	Bus485	-0.098	-0.046	2.0	90.6		
								Bus487	0.098	0.046	2.0	90.6		
								Bus486	-0.097	-0.045	166.1	90.8		
Bus487	0.400	93.065	-2.0	0	0	0.097	0.045	Bus486	-0.097	-0.045	166.1	90.8		
Bus488	33.000	94.049	-1.6	0	0	0	0	Bus485	-0.021	-0.008	0.4	93.4		
								Bus489	0.021	0.008	0.4	93.4		
								Bus488	-0.020	-0.008	33.8	93.4		
Bus489	0.400	93.744	-1.8	0	0	0.020	0.008	Bus488	-0.020	-0.008	33.8	93.4		
Bus490	33.000	94.185	-1.6	0	0	0	0	Bus460	-0.067	-0.028	1.3	92.2		
								Bus491	0.067	0.028	1.3	92.2		
								Bus490	-0.066	-0.027	110.9	92.5		
Bus491	0.400	93.162	-2.1	0	0	0.066	0.027	Bus490	-0.066	-0.027	110.9	92.5		
Bus492	33.000	94.177	-1.6	0	0	0	0	Bus460	-0.078	-0.042	1.6	88.2		
								Bus493	0.011	0.007	0.2	85.4		
								Bus495	0.068	0.035	1.4	88.7		
Bus493	33.000	94.177	-1.6	0	0	0	0	Bus492	-0.011	-0.007	0.2	84.3		
								Bus494	0.011	0.007	0.2	84.3		
								Bus493	-0.011	-0.007	19.6	84.4		
Bus494	0.400	93.978	-1.7	0	0	0.011	0.007	Bus493	-0.011	-0.007	19.6	84.4		
Bus495	33.000	94.174	-1.6	0	0	0	0	Bus492	-0.068	-0.036	1.4	88.1		
								Bus497	0.008	0.002	0.2	95.9		
								Bus496	0.060	0.034	1.3	86.9		
Bus496	33.000	94.168	-1.6	0	0	0	0	Bus495	-0.060	-0.037	1.3	85.3		
								Bus498	0.060	0.037	1.3	85.3		
								Bus495	-0.008	-0.003	0.2	93.6		
Bus497	33.000	94.174	-1.6	0	0	0	0	Bus495	-0.008	-0.003	0.2	93.6		
Bus498	33.000	94.174	-1.6	0	0	0	0	Bus499	0.008	0.003	0.2	93.6		
								Bus496	-0.059	-0.036	107.4	85.5		
								Bus497	-0.008	-0.003	12.8	93.6		
Bus499	0.400	94.058	-1.7	0	0	0.008	0.003	Bus497	-0.008	-0.003	12.8	93.6		
Bus500	33.000	94.276	-1.6	0	0	0	0	Bus453	-1.030	-0.250	19.7	97.2		
								Bus501	0.241	0.063	4.6	96.7		
								Bus503	0.151	0.025	2.8	98.7		
Bus501	33.000	94.274	-1.6	0	0	0	0	Bus508	0.638	0.162	12.2	96.9		
								Bus500	-0.241	-0.063	4.6	96.7		

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ID	kV	% Mag.	Ang.	MW	Mvar	MW	Mvar	ID	MW	Mvar	Amp	%PF	%Tap
								Bus502	0.241	0.063	4.6	96.7	
Bus502	0.400	91.153	-3.4	0	0	0.235	0.054	Bus501	-0.235	-0.054	381.5	97.4	
Bus503	33.000	94.273	-1.6	0	0	0	0	Bus500	-0.151	-0.026	2.8	98.6	
								Bus505	0.018	0.001	0.3	99.9	
								Bus504	0.133	0.025	2.5	98.3	
Bus504	33.000	94.272	-1.6	0	0	0	0	Bus503	-0.133	-0.025	2.5	98.3	
								Bus506	0.133	0.025	2.5	98.3	
Bus505	33.000	94.272	-1.6	0	0	0	0	Bus503	-0.018	-0.001	0.3	99.8	
								Bus507	0.018	0.001	0.3	99.8	
Bus506	0.400	92.679	-2.6	0	0	0.131	0.022	Bus504	-0.131	-0.022	207.3	98.6	
Bus507	0.400	94.160	-1.7	0	0	0.018	0.001	Bus505	-0.018	-0.001	27.0	99.8	
Bus508	33.000	94.261	-1.6	0	0	0	0	Bus500	-0.638	-0.163	12.2	96.9	
								Bus510	0.552	0.146	10.6	96.7	
								Bus509	0.086	0.017	1.6	98.1	
Bus509	0.400	93.845	-1.9	0	0	0.086	0.017	Bus508	-0.086	-0.017	134.6	98.2	
Bus510	33.000	94.243	-1.6	0	0	0	0	Bus508	-0.552	-0.146	10.6	96.7	
								Bus512	0.072	0.014	1.4	98.1	
								Bus514	0.460	0.124	8.8	96.6	
								Bus520	0.012	0.002	0.2	98.0	
								Bus511	0.008	0.006	0.2	80.0	
Bus511	0.400	94.181	-1.6	0	0	0.008	0.006	Bus510	-0.008	-0.006	15.0	80.0	
Bus512	33.000	94.242	-1.6	0	0	0	0	Bus510	-0.072	-0.015	1.4	97.9	
								Bus513	0.072	0.015	1.4	97.9	
Bus513	0.400	93.888	-1.8	0	0	0.072	0.015	Bus512	-0.072	-0.015	113.3	98.0	
Bus514	33.000	94.235	-1.6	0	0	0	0	Bus510	-0.460	-0.124	8.8	96.5	
								Bus516	0.380	0.070	7.2	98.4	
								Bus515	0.080	0.054	1.8	82.8	
Bus515	0.400	93.282	-1.9	0	0	0.080	0.054	Bus514	-0.080	-0.054	148.8	83.0	
Bus516	33.000	94.233	-1.6	0	0	0	0	Bus514	-0.380	-0.070	7.2	98.4	
								Bus518	0.328	0.056	6.2	98.6	
								Bus517	0.052	0.014	1.0	96.5	
Bus517	0.400	93.547	-2.0	0	0	0.052	0.014	Bus516	-0.052	-0.014	82.5	96.7	
Bus518	33.000	94.232	-1.6	0	0	0	0	Bus516	-0.328	-0.056	6.2	98.6	
								Bus519	0.328	0.056	6.2	98.6	
Bus519	0.400	91.846	-3.2	0	0	0.321	0.046	Bus518	-0.321	-0.046	509.0	99.0	
Bus520	33.000	94.243	-1.6	0	0	0	0	Bus510	-0.012	-0.003	0.2	97.0	
								Bus521	0.012	0.003	0.2	97.0	
Bus521	0.400	94.148	-1.7	0	0	0.012	0.003	Bus520	-0.012	-0.003	18.5	97.0	

Bus		Voltage		Generation		Load		Load Flow					XFMR
ID	kV	% Mag.	Ang.	MW	Mvar	MW	Mvar	ID	MW	Mvar	Amp	%PF	%Tap
Line43~	33.000	95.927	-1.1	0	0	0	0	Bus54	0.000	0.000	0.0	0.0	

* 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