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Bus Loading Summary Report

Bus			Directly Connected Load								Total Bus Load			
			Constant kVA		Constant Z		Constant I		Generic		MVA	% PF	Amp	Percent Loading
ID	kV	Rated Amp	MW	Mvar	MW	Mvar	MW	Mvar	MW	Mvar				
Bus2	33.000		0	0	0	0	0	0	0	0	5.951	73.8	104.1	
Bus3	33.000		0	0	0	0	0	0	0	0	5.951	73.8	104.1	
Bus4	33.000		0	0	0	0	0	0	0	0	0.035	87.8	0.6	
Bus5	33.000		0	0	0	0	0	0	0	0	0.035	87.8	0.6	
Bus6	33.000		0	0	0	0	0	0	0	0	0.038	81.8	0.7	
Bus7	33.000		0	0	0	0	0	0	0	0	5.909	73.8	103.6	
Bus8	33.000		0	0	0	0	0	0	0	0	5.747	72.9	101.4	
Bus9	33.000		0	0	0	0	0	0	0	0	5.720	72.8	101.0	
Bus10	33.000		0	0	0	0	0	0	0	0	5.720	72.8	101.0	
Bus11	33.000		0	0	0	0	0	0	0	0	5.715	72.8	101.0	
Bus12	33.000		0	0	0	0	0	0	0	0	5.620	73.9	101.0	
Bus13	33.000		0	0	0	0	0	0	0	0	5.605	73.8	101.0	
Bus14	33.000		0	0	0	0	0	0	0	0	5.510	73.3	99.6	
Bus15	33.000		0	0	0	0	0	0	0	0	5.420	72.7	98.2	
Bus16	33.000		0	0	0	0	0	0	0	0	5.414	72.7	98.2	
Bus17	33.000		0	0	0	0	0	0	0	0	5.393	72.5	97.9	
Bus18	33.000		0	0	0	0	0	0	0	0	0.927	77.3	16.8	
Bus19	33.000		0	0	0	0	0	0	0	0	0.821	74.1	14.9	
Bus20	33.000		0	0	0	0	0	0	0	0	0.283	96.9	5.1	
Bus21	33.000		0	0	0	0	0	0	0	0	0.191	96.7	3.5	
Bus22	33.000		0	0	0	0	0	0	0	0	0.092	97.4	1.7	
Bus23	33.000		0	0	0	0	0	0	0	0	0.092	97.4	1.7	
Bus24	33.000		0	0	0	0	0	0	0	0	0.092	97.2	1.7	
Bus25	33.000		0	0	0	0	0	0	0	0	0.092	96.9	1.7	
Bus26	33.000		0	0	0	0	0	0	0	0	0.587	57.0	10.7	
Bus27	33.000		0	0	0	0	0	0	0	0	0.587	57.0	10.7	
Bus28	33.000		0	0	0	0	0	0	0	0	0.587	56.9	10.7	
Bus29	33.000		0	0	0	0	0	0	0	0	0.139	93.7	2.5	
Bus30	33.000		0	0	0	0	0	0	0	0	0.444	37.1	8.1	
Bus31	33.000		0	0	0	0	0	0	0	0	0.039	99.8	0.7	
Bus32	33.000		0	0	0	0	0	0	0	0	0.039	99.8	0.7	
Bus33	33.000		0	0	0	0	0	0	0	0	0.039	99.8	0.7	
Bus34	33.000		0	0	0	0	0	0	0	0	0.030	100.0	0.5	
Bus35	33.000		0	0	0	0	0	0	0	0	0.398	28.1	7.2	
Bus36	33.000		0	0	0	0	0	0	0	0	0.027	95.9	0.5	
Bus37	33.000		0	0	0	0	0	0	0	0	0.402	35.2	7.3	

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Bus			Directly Connected Load								Total Bus Load			
			Constant kVA		Constant Z		Constant I		Generic		MVA	% PF	Amp	Percent Loading
ID	kV	Rated Amp	MW	Mvar	MW	Mvar	MW	Mvar	MW	Mvar				
Bus38	33.000		0	0	0	0	0	0	0	0	0.454	61.9	8.3	
Bus39	33.000		0	0	0	0	0	0	0	0	0.155	89.9	2.8	
Bus40	33.000		0	0	0	0	0	0	0	0	0.154	89.8	2.8	
Bus41	33.000		0	0	0	0	0	0	0	0	0.466	72.9	8.5	
Bus42	33.000		0	0	0	0	0	0	0	0	0.585	86.0	10.6	
Bus43	33.000		0	0	0	0	0	0	0	0	0.025	95.7	0.5	
Bus44	33.000		0	0	0	0	0	0	0	0	0.007	95.9	0.1	
Bus45	33.000		0	0	0	0	0	0	0	0	0.687	92.6	12.5	
Bus46	33.000		0	0	0	0	0	0	0	0	0.690	95.5	12.5	
Bus47	33.000		0	0	0	0	0	0	0	0	0.688	95.7	12.5	
Bus48	33.000		0	0	0	0	0	0	0	0	0.688	95.7	12.5	
Bus49	33.000		0	0	0	0	0	0	0	0	0.688	95.7	12.5	
Bus50	33.000		0	0	0	0	0	0	0	0	0.690	95.6	12.5	
Bus51	33.000		0	0	0	0	0	0	0	0	0.002	0.0	0.0	
Bus52	33.000		0	0	0	0	0	0	0	0	0.002	0.0	0.0	
Bus53	33.000		0	0	0	0	0	0	0	0	0.002	0.0	0.0	
Bus54	33.000		0	0	0	0	0	0	0	0	0.002	0.0	0.0	
Bus55	33.000		0	0	0	0	0	0	0	0	0.698	95.7	12.7	
Bus56	33.000		0	0	0	0	0	0	0	0	0.708	95.9	12.8	
Bus57	33.000		0	0	0	0	0	0	0	0	0.709	96.1	12.9	
Bus58	33.000		0	0	0	0	0	0	0	0	2.352	97.6	42.6	
Bus59	33.000		0	0	0	0	0	0	0	0	2.436	98.3	44.1	
Bus60	33.000		0	0	0	0	0	0	0	0	0.103	95.7	1.9	
Bus61	33.000		0	0	0	0	0	0	0	0	2.571	98.1	46.6	
Bus62	33.000		0	0	0	0	0	0	0	0	2.714	98.2	49.2	
Bus63	33.000		0	0	0	0	0	0	0	0	0.146	98.0	2.6	
Bus64	33.000		0	0	0	0	0	0	0	0	0.065	98.2	1.2	
Bus65	33.000		0	0	0	0	0	0	0	0	0.065	98.1	1.2	
Bus66	33.000		0	0	0	0	0	0	0	0	0.068	93.8	1.2	
Bus67	33.000		0	0	0	0	0	0	0	0	2.786	98.2	50.4	
Bus68	33.000		0	0	0	0	0	0	0	0	2.836	98.1	51.0	
Bus69	33.000		0	0	0	0	0	0	0	0	2.928	98.1	52.6	
Bus70	33.000		0	0	0	0	0	0	0	0	3.205	97.5	57.5	
Bus71	33.000		0	0	0	0	0	0	0	0	0.289	86.5	5.2	
Bus72	33.000		0	0	0	0	0	0	0	0	0.248	83.6	4.4	
Bus73	33.000		0	0	0	0	0	0	0	0	3.278	97.4	58.8	
Bus74	33.000		0	0	0	0	0	0	0	0	3.484	97.2	61.9	
Bus75	33.000		0	0	0	0	0	0	0	0	0.087	92.5	1.5	

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			Constant kVA		Constant Z		Constant I		Generic		MVA	% PF	Amp	Percent Loading
ID	kV	Rated Amp	MW	Mvar	MW	Mvar	MW	Mvar	MW	Mvar				
Bus76	33.000		0	0	0	0	0	0	0	0	3.514	97.1	62.4	
Bus77	33.000		0	0	0	0	0	0	0	0	0.029	77.9	0.5	
Bus78	33.000		0	0	0	0	0	0	0	0	3.540	97.1	62.5	
Bus79	33.000		0	0	0	0	0	0	0	0	0.008	96.9	0.1	
Bus80	33.000		0	0	0	0	0	0	0	0	3.954	97.2	69.8	
Bus81	33.000		0	0	0	0	0	0	0	0	3.995	97.1	70.0	
Bus82	33.000		0	0	0	0	0	0	0	0	0.018	77.9	0.3	
Bus83	33.000		0	0	0	0	0	0	0	0	4.061	97.1	71.1	
Bus84	33.000		0	0	0	0	0	0	0	0	0.025	96.9	0.4	
Bus87	33.000		0	0	0	0	0	0	0	0	0.410	97.3	7.2	
Bus88	33.000		0	0	0	0	0	0	0	0	0.061	97.1	1.1	
Bus89	33.000		0	0	0	0	0	0	0	0	0.020	92.8	0.4	
Bus90	33.000		0	0	0	0	0	0	0	0	0.349	97.2	6.2	
Bus91	33.000		0	0	0	0	0	0	0	0	0.013	97.0	0.2	
Bus92	33.000		0	0	0	0	0	0	0	0	0.242	96.7	4.3	
Bus93	33.000		0	0	0	0	0	0	0	0	0.205	97.2	3.6	
Bus94	33.000		0	0	0	0	0	0	0	0	0.171	95.2	3.0	
Bus95	33.000		0	0	0	0	0	0	0	0	0.075	90.7	1.3	
Bus96	33.000		0	0	0	0	0	0	0	0	1.693	95.3	30.7	
Bus97	33.000		0	0	0	0	0	0	0	0	1.693	95.3	30.7	
Bus98	33.000		0	0	0	0	0	0	0	0	1.693	95.3	30.7	
Bus99	33.000		0	0	0	0	0	0	0	0	0.287	93.0	5.2	
Bus100	33.000		0	0	0	0	0	0	0	0	0.212	93.2	3.8	
Bus101	33.000		0	0	0	0	0	0	0	0	0.196	93.1	3.6	
Bus102	33.000		0	0	0	0	0	0	0	0	0.196	93.1	3.6	
Bus103	33.000		0	0	0	0	0	0	0	0	0.198	92.3	3.6	
Bus104	33.000		0	0	0	0	0	0	0	0	0.198	92.0	3.6	
Bus105	33.000		0	0	0	0	0	0	0	0	0.151	91.9	2.7	
Bus106	33.000		0	0	0	0	0	0	0	0	0.105	91.2	1.9	
Bus109	33.000		0	0	0	0	0	0	0	0	0.106	91.0	1.9	
Bus110	33.000		0	0	0	0	0	0	0	0	0.052	91.8	1.0	
Bus111	33.000		0	0	0	0	0	0	0	0	0	0.0	0.0	
Bus112	33.000		0	0	0	0	0	0	0	0	1.406	95.7	25.5	
Bus113	33.000		0	0	0	0	0	0	0	0	1.406	95.7	25.5	
Bus114	33.000		0	0	0	0	0	0	0	0	1.404	95.5	25.5	
Bus115	33.000		0	0	0	0	0	0	0	0	0.076	100.0	1.4	
Bus116	33.000		0	0	0	0	0	0	0	0	1.331	95.0	24.2	
Bus118	33.000		0	0	0	0	0	0	0	0	0.317	96.1	5.8	

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			Constant kVA		Constant Z		Constant I		Generic		MVA	% PF	Amp	Percent Loading
ID	kV	Rated Amp	MW	Mvar	MW	Mvar	MW	Mvar	MW	Mvar				
Bus119	33.000		0	0	0	0	0	0	0	0	0.202	94.3	3.7	
Bus120	33.000		0	0	0	0	0	0	0	0	0.139	96.0	2.5	
Bus122	33.000		0	0	0	0	0	0	0	0	0.139	95.9	2.5	
Bus123	33.000		0	0	0	0	0	0	0	0	0.717	96.5	13.1	
Bus124	33.000		0	0	0	0	0	0	0	0	0.402	96.5	7.3	
Bus125	33.000		0	0	0	0	0	0	0	0	0.400	96.4	7.3	
Bus126	33.000		0	0	0	0	0	0	0	0	0.355	96.0	6.5	
Bus127	33.000		0	0	0	0	0	0	0	0	0.061	94.5	1.1	
Bus135	33.000		0	0	0	0	0	0	0	0	0.062	93.9	1.1	
Bus137	33.000		0	0	0	0	0	0	0	0	0.216	95.8	3.9	
Bus138	33.000		0	0	0	0	0	0	0	0	0.194	96.7	3.5	
Bus139	33.000		0	0	0	0	0	0	0	0	0.169	96.1	3.1	
Bus140	33.000		0	0	0	0	0	0	0	0	0.088	95.9	1.6	
Bus141	33.000		0	0	0	0	0	0	0	0	0.012	92.9	0.2	
Bus142	33.000		0	0	0	0	0	0	0	0	0.616	92.9	11.2	
Bus143	33.000		0	0	0	0	0	0	0	0	0.059	92.9	1.1	
Bus144	33.000		0	0	0	0	0	0	0	0	0.557	92.9	10.1	
Bus145	33.000		0	0	0	0	0	0	0	0	0.464	91.9	8.4	
Bus146	33.000		0	0	0	0	0	0	0	0	0.344	91.3	6.3	
Bus147	33.000		0	0	0	0	0	0	0	0	0.142	98.9	2.6	
Bus148	33.000		0	0	0	0	0	0	0	0	0.087	97.9	1.6	
Bus149	33.000		0	0	0	0	0	0	0	0	0.163	60.7	3.0	
Bus150	33.000		0	0	0	0	0	0	0	0	0.057	97.9	1.0	
Bus151	33.000		0	0	0	0	0	0	0	0	0.126	34.0	2.3	
Bus152	33.000		0	0	0	0	0	0	0	0	0.121	92.5	2.2	
Bus153	33.000		0	0	0	0	0	0	0	0	0.030	98.9	0.6	
Bus154	33.000		0	0	0	0	0	0	0	0	0.094	87.3	1.7	
Bus155	33.000		0	0	0	0	0	0	0	0	0.093	86.9	1.7	
Bus156	33.000		0	0	0	0	0	0	0	0	0.071	85.3	1.3	
Bus157	33.000		0	0	0	0	0	0	0	0	0.001	92.0	0.0	
Bus158	33.000		0	0	0	0	0	0	0	0	4.470	71.5	81.1	
Bus159	33.000		0	0	0	0	0	0	0	0	0.132	94.6	2.4	
Bus160	33.000		0	0	0	0	0	0	0	0	4.350	70.6	79.0	
Bus161	33.000		0	0	0	0	0	0	0	0	4.330	70.3	78.7	
Bus162	33.000		0	0	0	0	0	0	0	0	4.166	68.9	75.7	
Bus163	33.000		0	0	0	0	0	0	0	0	4.166	68.9	75.7	
Bus164	33.000		0	0	0	0	0	0	0	0	4.159	68.9	75.7	
Bus165	33.000		0	0	0	0	0	0	0	0	4.004	66.9	72.9	

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			Constant kVA		Constant Z		Constant I		Generic		MVA	% PF	Amp	Percent Loading
ID	kV	Rated Amp	MW	Mvar	MW	Mvar	MW	Mvar	MW	Mvar				
Bus167	33.000		0	0	0	0	0	0	0	0	4.001	66.8	72.9	
Bus168	33.000		0	0	0	0	0	0	0	0	0.146	89.4	2.7	
Bus169	33.000		0	0	0	0	0	0	0	0	3.864	65.8	70.5	
Bus170	33.000		0	0	0	0	0	0	0	0	3.864	65.8	70.5	
Bus171	33.000		0	0	0	0	0	0	0	0	3.861	65.7	70.5	
Bus173	33.000		0	0	0	0	0	0	0	0	1.104	95.9	20.1	
Bus174	33.000		0	0	0	0	0	0	0	0	0.039	98.0	0.7	
Bus175	33.000		0	0	0	0	0	0	0	0	0.039	96.5	0.7	
Bus176	33.000		0	0	0	0	0	0	0	0	0.035	95.5	0.6	
Bus177	33.000		0	0	0	0	0	0	0	0	0.036	94.8	0.7	
Bus178	33.000		0	0	0	0	0	0	0	0	1.066	95.7	19.5	
Bus179	33.000		0	0	0	0	0	0	0	0	0.992	96.0	18.1	
Bus180	33.000		0	0	0	0	0	0	0	0	0.035	96.9	0.6	
Bus181	33.000		0	0	0	0	0	0	0	0	0.958	95.8	17.5	
Bus182	33.000		0	0	0	0	0	0	0	0	0.908	95.7	16.6	
Bus183	33.000		0	0	0	0	0	0	0	0	0.101	94.7	1.8	
Bus184	33.000		0	0	0	0	0	0	0	0	0.807	95.9	14.8	
Bus185	33.000		0	0	0	0	0	0	0	0	0.751	95.6	13.8	
Bus186	33.000		0	0	0	0	0	0	0	0	0.078	95.7	1.4	
Bus187	33.000		0	0	0	0	0	0	0	0	0.050	94.6	0.9	
Bus188	33.000		0	0	0	0	0	0	0	0	0.624	95.6	11.4	
Bus189	33.000		0	0	0	0	0	0	0	0	0.418	94.8	7.7	
Bus190	33.000		0	0	0	0	0	0	0	0	0.269	94.9	4.9	
Bus191	33.000		0	0	0	0	0	0	0	0	0.230	94.4	4.2	
Bus192	33.000		0	0	0	0	0	0	0	0	0.157	93.4	2.9	
Bus193	33.000		0	0	0	0	0	0	0	0	0.040	95.9	0.7	
Bus194	33.000		0	0	0	0	0	0	0	0	0.126	97.0	2.3	
Bus195	33.000		0	0	0	0	0	0	0	0	0.126	97.0	2.3	
Bus196	33.000		0	0	0	0	0	0	0	0	0.127	96.6	2.3	
Bus197	33.000		0	0	0	0	0	0	0	0	0.112	95.1	2.1	
Bus198	33.000		0	0	0	0	0	0	0	0	0.017	96.0	0.3	
Bus199	33.000		0	0	0	0	0	0	0	0	0.008	97.0	0.2	
Bus201	33.000		0	0	0	0	0	0	0	0	0.097	93.1	1.8	
Bus202	33.000		0	0	0	0	0	0	0	0	0.086	92.9	1.6	
Bus203	33.000		0	0	0	0	0	0	0	0	0.013	87.0	0.2	
Bus229	0.400		0.183	0.037	0	0	0	0	0	0	0.187	98.0	283.6	
Bus230	0.400		0.031	0.021	0	0	0	0	0	0	0.037	82.0	54.5	
Bus231	0.400		0.128	0.042	0	0	0	0	0	0	0.134	95.0	197.8	

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Bus			Directly Connected Load								Total Bus Load			
			Constant kVA		Constant Z		Constant I		Generic		MVA	% PF	Amp	Percent Loading
ID	kV	Rated Amp	MW	Mvar	MW	Mvar	MW	Mvar	MW	Mvar				
Bus233	0.400		0.024	0.009	0	0	0	0	0	0	0.025	94.0	37.0	
Bus234	0.400		0.084	0.021	0	0	0	0	0	0	0.087	97.0	131.8	
Bus235	0.400		0.086	0.025	0	0	0	0	0	0	0.090	96.0	135.3	
Bus237	0.400		0.021	0.003	0	0	0	0	0	0	0.021	99.0	31.7	
Bus238	0.400		0.123	0.040	0	0	0	0	0	0	0.130	95.0	197.8	
Bus239	0.400		0.172	0.056	0	0	0	0	0	0	0.181	95.0	275.5	
Bus240	0.400		0.019	0.006	0	0	0	0	0	0	0.020	95.0	29.9	
Bus246	0.400		0.107	0.035	0	0	0	0	0	0	0.113	95.0	171.4	
Bus247	0.400		0.182	0.046	0	0	0	0	0	0	0.188	97.0	285.6	
Bus248	0.400		0.089	0.022	0	0	0	0	0	0	0.092	97.0	138.4	
Bus249	0.400		0.123	0.041	0	0	0	0	0	0	0.130	95.0	198.3	
Bus250	0.400		0.129	0.047	0	0	0	0	0	0	0.137	94.0	208.1	
Bus251	0.400		0.124	0.031	0	0	0	0	0	0	0.128	97.0	194.5	
Bus252	0.400		0.009	0.002	0	0	0	0	0	0	0.009	97.0	13.9	
Bus253	0.400		0.030	0	0	0	0	0	0	0	0.030	100.0	45.1	
Bus254	0.400		0.026	0.008	0	0	0	0	0	0	0.027	96.0	40.5	
Bus255	0.400		0.030	0.020	0	0	0	0	0	0	0.036	83.0	54.2	
Bus256	0.400		0.138	0.067	0	0	0	0	0	0	0.153	90.0	231.4	
Bus257	0.400		0.001	0	0	0	0	0	0	0	0.001	98.0	1.5	
Bus258	0.400		0.058	0.023	0	0	0	0	0	0	0.062	93.0	93.8	
Bus259	0.400		0.138	0.035	0	0	0	0	0	0	0.143	97.0	216.2	
Bus260	0.400		0.017	0.007	0	0	0	0	0	0	0.018	92.0	27.6	
Bus261	0.400		0.007	0.002	0	0	0	0	0	0	0.007	96.0	10.9	
Bus262	0.400		0.132	0.056	0	0	0	0	0	0	0.143	92.0	217.3	
Bus263	0.400		0.022	0.007	0	0	0	0	0	0	0.023	95.0	34.7	
Bus264	0.400		0.009	0.004	0	0	0	0	0	0	0.010	91.0	14.8	
Bus268	0.400		0.011	0.008	0	0	0	0	0	0	0.014	80.0	20.4	
Bus269	0.400		0.001	0.115	0	0.001	0	0	0	0	0.116	1.0	175.1	
Bus270	0.400		0.098	0.028	0	0	0	0	0	0	0.102	96.0	154.0	
Bus271	0.400		0.126	0.050	0	0	0	0	0	0	0.135	93.0	204.5	
Bus272	0.400		0.068	0.010	0	0	0	0	0	0	0.069	99.0	102.9	
Bus273	0.400		0.035	0.018	0	0	0	0	0	0	0.039	89.0	57.9	
Bus274	0.400		0.084	0.021	0	0	0	0	0	0	0.087	97.0	129.2	
Bus275	0.400		0.043	0.012	0	0	0	0	0	0	0.044	96.0	66.7	
Bus276	0.400		0.205	0.132	0	0	0	0	0	0	0.244	84.0	366.8	
Bus277	0.400		0.084	0.041	0	0	0	0	0	0	0.094	90.0	138.3	
Bus278	0.400		0.079	0.031	0	0	0	0	0	0	0.085	93.0	127.7	
Bus279	0.400		0.023	0.018	0	0	0	0	0	0	0.029	78.0	43.0	

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Bus			Directly Connected Load								Total Bus Load			
			Constant kVA		Constant Z		Constant I		Generic		MVA	% PF	Amp	Percent Loading
ID	kV	Rated Amp	MW	Mvar	MW	Mvar	MW	Mvar	MW	Mvar				
Bus280	0.400		0.055	0.022	0	0	0	0	0	0	0.059	93.0	88.9	
Bus281	0.400		0.091	0.023	0	0	0	0	0	0	0.094	97.0	141.3	
Bus282	0.400		0.075	0.011	0	0	0	0	0	0	0.076	99.0	114.7	
Bus283	0.400		0.084	0.017	0	0	0	0	0	0	0.086	98.0	130.0	
Bus284	0.400		0.056	0.011	0	0	0	0	0	0	0.057	98.0	85.8	
Bus285	0.400		0.021	0.059	0	0	0	0	0	0	0.063	34.0	94.9	
Bus286	0.400		0.021	0.059	0	0	0	0	0	0	0.063	34.0	94.9	
Bus287	0.400		0.008	0.002	0	0	0	0	0	0	0.008	97.0	12.1	
Bus288	0.400		0.040	0.010	0	0	0	0	0	0	0.041	97.0	61.3	
Bus289	0.400		0.019	0.007	0	0	0	0	0	0	0.020	93.0	29.7	
Bus290	0.400		0.013	0.003	0	0	0	0	0	0	0.013	97.0	19.4	
Bus291	0.400		0.035	0.015	0	0	0	0	0	0	0.038	92.0	55.6	
Bus292	0.400		0.036	0	0	0	0	0	0	0	0.036	100.0	52.9	
Bus293	0.400		0.092	0.023	0	0	0	0	0	0	0.095	97.0	139.1	
Bus294	0.400		0.094	0.024	0	0	0	0	0	0	0.097	97.0	142.5	
Bus295	0.400		0.067	0.031	0	0	0	0	0	0	0.074	91.0	108.8	
Bus296	0.400		0.014	0.011	0	0	0	0	0	0	0.018	78.0	25.9	
Bus297	0.400		0.034	0.008	0	0	0	0	0	0	0.035	97.0	50.6	
Bus298	0.400		0.024	0.006	0	0	0	0	0	0	0.025	97.0	35.8	
Bus299	0.400		0.068	0.027	0	0	0	0	0	0	0.073	93.0	108.5	
Bus300	0.400		0.078	0.028	0	0	0	0	0	0	0.083	94.0	125.2	
Bus301	0.400		0.064	0.023	0	0	0	0	0	0	0.068	94.0	102.1	
Bus302	0.400		0.074	0	0	0	0	0	0	0	0.074	100.0	113.6	
Bus303	0.400		0.069	0.030	0	0	0	0	0	0	0.075	92.0	113.3	
Bus304	0.400		0.015	0.012	0	0	0	0	0	0	0.019	78.0	28.8	
Bus305	0.400		0.043	0.018	0	0	0	0	0	0	0.047	92.0	71.0	
Bus306	0.400		0.055	0.011	0	0	0	0	0	0	0.056	98.0	84.9	
Bus307	0.400		0.030	0.004	0	0	0	0	0	0	0.030	99.0	45.5	
Bus308	0.400		0.001	0	0	0	0	0	0	0	0.001	92.0	1.6	
Bus309	0.400		0.020	0.009	0	0	0	0	0	0	0.022	91.0	33.0	
Bus310	0.400		0.059	0.037	0	0	0	0	0	0	0.070	85.0	105.6	
Bus311	0.400		0.001	0	0	0	0	0	0	0	0.001	92.0	1.6	
Bus312	0.400		0.002	0	0	0	0	0	0	0	0.002	100.0	2.9	
Bus313	0.400		0.069	0.014	0	0	0	0	0	0	0.071	98.0	107.0	
Bus314	0.400		0.045	0.009	0	0	0	0	0	0	0.046	98.0	69.1	
Bus315	0.400		0.044	0.006	0	0	0	0	0	0	0.044	99.0	66.8	
Bus316	0.400		0	0	0	0	0	0	0	0	0	0.0	0.0	
Bus317	0.400		0.075	0.025	0	0	0	0	0	0	0.079	95.0	120.2	

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			Constant kVA		Constant Z		Constant I		Generic		MVA	% PF	Amp	Percent Loading
ID	kV	Rated Amp	MW	Mvar	MW	Mvar	MW	Mvar	MW	Mvar				
Bus319	0.400		0.058	0.021	0	0	0	0	0	0	0.061	94.0	92.8	
Bus320	0.400		0.019	0.015	0	0	0	0	0	0	0.024	78.0	36.6	
Bus321	0.400		0.078	0.023	0	0	0	0	0	0	0.081	96.0	123.3	
Bus322	0.400		0.025	0.006	0	0	0	0	0	0	0.026	97.0	39.0	
Bus323	0.400		0.073	0.024	0	0	0	0	0	0	0.077	95.0	116.4	
Bus324	0.400		0.011	0.004	0	0	0	0	0	0	0.012	93.0	17.7	
Bus325	0.400		0.058	0.028	0	0	0	0	0	0	0.064	90.0	96.5	
Bus327	0.400		0.075	0.011	0	0	0	0	0	0	0.076	99.0	114.3	
Bus328	0.400		0.058	0.028	0	0	0	0	0	0	0.064	90.0	96.5	
Bus329	0.400		0.048	0.024	0	0	0	0	0	0	0.054	89.0	81.0	
Bus330	0.400		0.048	0.020	0	0	0	0	0	0	0.052	92.0	78.5	
Bus331	0.400		0.043	0.018	0	0	0	0	0	0	0.047	92.0	70.1	
Bus332	0.400		0.128	0.062	0	0	0	0	0	0	0.143	90.0	219.4	
Bus333	0.400		0.032	0.010	0	0	0	0	0	0	0.034	95.0	50.9	
Bus334	0.400		0.066	0.032	0	0	0	0	0	0	0.074	90.0	112.1	
Bus335	0.400		0.004	0.001	0	0	0	0	0	0	0.004	97.0	6.2	
Bus336	0.400		0.034	0.011	0	0	0	0	0	0	0.035	95.0	53.8	
Bus337	0.400		0.034	0.008	0	0	0	0	0	0	0.035	97.0	52.6	
Bus338	0.400		0.048	0.014	0	0	0	0	0	0	0.050	96.0	75.3	
Bus339	0.400		0.094	0.031	0	0	0	0	0	0	0.099	95.0	152.2	
Bus340	0.400		0.055	0.011	0	0	0	0	0	0	0.056	98.0	85.3	
Bus341	0.400		0.074	0.022	0	0	0	0	0	0	0.077	96.0	118.2	
Bus342	0.400		0.047	0.015	0	0	0	0	0	0	0.049	95.0	75.4	
Bus343	0.400		0.076	0.019	0	0	0	0	0	0	0.078	97.0	120.4	
Bus344	0.400		0.139	0.046	0	0	0	0	0	0	0.146	95.0	226.1	
Bus345	0.400		0.069	0.020	0	0	0	0	0	0	0.072	96.0	111.0	
Bus346	0.400		0.038	0.011	0	0	0	0	0	0	0.040	96.0	60.1	
Bus347	0.400		0.144	0.052	0	0	0	0	0	0	0.154	94.0	237.8	
Bus348	0.400		0.016	0.005	0	0	0	0	0	0	0.017	95.0	25.4	
Bus349	0.400		0.008	0.003	0	0	0	0	0	0	0.009	93.0	12.9	
Bus350	0.400		0.008	0.002	0	0	0	0	0	0	0.008	97.0	12.5	
Bus351	0.400		0.079	0.031	0	0	0	0	0	0	0.085	93.0	129.8	
Bus352	0.400		0.011	0.006	0	0	0	0	0	0	0.013	87.0	19.0	
Bus353	33.000		0	0	0	0	0	0	0	0	2.961	48.7	54.1	
Bus354	33.000		0	0	0	0	0	0	0	0	2.961	48.7	54.1	
Bus355	33.000		0	0	0	0	0	0	0	0	2.958	48.6	54.2	
Bus356	33.000		0	0	0	0	0	0	0	0	0.070	89.8	1.3	
Bus357	0.400		0.063	0.030	0	0	0	0	0	0	0.070	90.0	106.1	

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Bus			Directly Connected Load								Total Bus Load			
			Constant kVA		Constant Z		Constant I		Generic		MVA	% PF	Amp	Percent Loading
ID	kV	Rated Amp	MW	Mvar	MW	Mvar	MW	Mvar	MW	Mvar				
Bus358	33.000		0	0	0	0	0	0	0	0	2.900	47.3	53.1	
Bus359	33.000		0	0	0	0	0	0	0	0	0.003	88.9	0.1	
Bus360	0.400		0.003	0.002	0	0	0	0	0	0	0.003	89.0	5.1	
Bus361	33.000		0	0	0	0	0	0	0	0	4.290	80.4	78.6	
Bus362	33.000		0	0	0	0	0	0	0	0	2.403	86.6	44.0	
Bus363	33.000		0	0	0	0	0	0	0	0	3.698	93.1	67.9	
Bus364	0.400		0.099	0.064	0	0	0	0	0	0	0.118	84.0	180.4	
Bus365	33.000		0	0	0	0	0	0	0	0	3.577	93.3	65.8	
Bus366	33.000		0	0	0	0	0	0	0	0	1.127	88.8	20.7	
Bus367	33.000		0	0	0	0	0	0	0	0	0.843	88.4	15.5	
Bus368	33.000		0	0	0	0	0	0	0	0	0.843	88.4	15.5	
Bus369	33.000		0	0	0	0	0	0	0	0	0.843	88.4	15.5	
Bus370	33.000		0	0	0	0	0	0	0	0	0.768	87.9	14.1	
Bus371	33.000		0	0	0	0	0	0	0	0	0.318	85.5	5.8	
Bus372	0.400		0.268	0.159	0	0	0	0	0	0	0.311	86.0	482.4	
Bus373	33.000		0	0	0	0	0	0	0	0	0.152	88.7	2.8	
Bus374	33.000		0	0	0	0	0	0	0	0	0.153	88.1	2.8	
Bus375	0.400		0.104	0.056	0	0	0	0	0	0	0.119	88.0	181.3	
Bus376	33.000		0	0	0	0	0	0	0	0	0.035	84.9	0.6	
Bus377	0.400		0.030	0.018	0	0	0	0	0	0	0.035	85.0	53.4	
Bus378	0.400		0.198	0.107	0	0	0	0	0	0	0.225	88.0	350.1	
Bus379	0.400		0.067	0.022	0	0	0	0	0	0	0.070	95.0	107.0	
Bus383	0.400		0	0	0	0	0	0	0	0	0.055	100.0	68.8	
Bus384	0.400		0	0	0	0	0	0	0	0	0.513	94.8	651.7	
Bus388	0.400		0	0	0	0	0	0	0	0	0.055	100.0	68.8	
Bus389	0.400		0	0	0	0	0	0	0	0	0.055	100.0	68.8	
Bus390	0.400		0	0	0	0	0	0	0	0	0.055	100.0	68.8	
Bus391	0.400		0	0	0	0	0	0	0	0	0.055	100.0	68.8	
Bus392	0.400		0	0	0	0	0	0	0	0	0.055	100.0	68.8	
Bus393	0.400		0	0	0	0	0	0	0	0	0.055	100.0	68.8	
Bus394	0.400		0	0	0	0	0	0	0	0	0.055	100.0	68.8	
Bus395	0.400		0	0	0	0	0	0	0	0	0.432	87.7	651.6	
Bus396	33.000		0	0	0	0	0	0	0	0	2.404	86.6	44.1	
Bus408	0.400		0	0	0	0	0	0	0	0	0.049	100.0	62.0	
Bus409	0.400		0	0	0	0	0	0	0	0	0.514	94.8	652.3	
Bus410	0.400		0	0	0	0	0	0	0	0	0.049	100.0	62.9	
Bus411	0.400		0	0	0	0	0	0	0	0	0.451	94.8	581.0	
Bus413	0.400		0	0	0	0	0	0	0	0	0.055	100.0	69.9	

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Bus			Directly Connected Load								Total Bus Load			
			Constant kVA		Constant Z		Constant I		Generic		MVA	% PF	Amp	Percent Loading
ID	kV	Rated Amp	MW	Mvar	MW	Mvar	MW	Mvar	MW	Mvar				
Bus414	0.400		0	0	0	0	0	0	0	0	0.055	100.0	69.9	
Bus415	0.400		0	0	0	0	0	0	0	0	0.055	100.0	69.9	
Bus416	0.400		0	0	0	0	0	0	0	0	0.055	100.0	69.9	
Bus417	0.400		0	0	0	0	0	0	0	0	0.055	100.0	69.9	
Bus423	0.400		0	0	0	0	0	0	0	0	0.055	100.0	73.1	
Bus424	0.400		0	0	0	0	0	0	0	0	0.055	100.0	73.1	
Bus425	0.400		0	0	0	0	0	0	0	0	0.055	100.0	73.1	
Bus426	0.400		0	0	0	0	0	0	0	0	0.055	100.0	73.1	
Bus427	0.400		0	0	0	0	0	0	0	0	0.055	100.0	73.1	
Bus428	0.400		0	0	0	0	0	0	0	0	0.285	94.8	384.6	
Bus429	0.400		0	0	0	0	0	0	0	0	0.432	87.7	652.3	
Bus430	0.400		0	0	0	0	0	0	0	0	0.385	88.6	581.0	
Bus431	0.400		0	0	0	0	0	0	0	0	0.255	90.9	384.6	
Bus432	0.400		0	0	0	0	0	0	0	0	0.474	86.8	714.6	
Bus433	0.400		0	0	0	0	0	0	0	0	0.432	87.7	651.6	
Bus434	33.000		0	0	0	0	0	0	0	0	0.076	91.9	1.4	
Bus435	0.400		0.070	0.030	0	0	0	0	0	0	0.076	92.0	115.5	
Bus436	33.000		0	0	0	0	0	0	0	0	0.285	89.8	5.2	
Bus437	0.400		0.071	0.042	0	0	0	0	0	0	0.083	86.0	126.3	
Bus438	33.000		0	0	0	0	0	0	0	0	0.203	90.9	3.7	
Bus439	33.000		0	0	0	0	0	0	0	0	0.114	84.8	2.1	
Bus440	0.400		0.096	0.059	0	0	0	0	0	0	0.113	85.0	172.2	
Bus441	0.400		0.021	0.006	0	0	0	0	0	0	0.022	96.0	33.2	
Bus442	33.000		0	0	0	0	0	0	0	0	0.070	94.9	1.3	
Bus443	0.400		0.067	0.022	0	0	0	0	0	0	0.070	95.0	106.9	
Bus444	33.000		0	0	0	0	0	0	0	0	2.459	95.0	45.2	
Bus446	33.000		0	0	0	0	0	0	0	0	0.138	84.1	2.5	
Bus448	33.000		0	0	0	0	0	0	0	0	0.139	83.8	2.6	
Bus449	0.400		0.116	0.075	0	0	0	0	0	0	0.138	84.0	210.7	
Bus450	33.000		0	0	0	0	0	0	0	0	2.325	95.5	42.8	
Bus451	33.000		0	0	0	0	0	0	0	0	0.040	86.8	0.7	
Bus452	0.400		0.035	0.020	0	0	0	0	0	0	0.040	87.0	61.1	
Bus453	33.000		0	0	0	0	0	0	0	0	2.284	95.6	42.1	
Bus454	33.000		0	0	0	0	0	0	0	0	1.193	94.1	22.0	
Bus455	33.000		0	0	0	0	0	0	0	0	0.234	93.0	4.3	
Bus456	0.400		0.079	0.034	0	0	0	0	0	0	0.086	92.0	132.0	
Bus457	33.000		0	0	0	0	0	0	0	0	0.061	94.9	1.1	
Bus458	0.400		0.079	0.034	0	0	0	0	0	0	0.086	92.0	132.0	

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Bus			Directly Connected Load								Total Bus Load			
			Constant kVA		Constant Z		Constant I		Generic		MVA	% PF	Amp	Percent Loading
ID	kV	Rated Amp	MW	Mvar	MW	Mvar	MW	Mvar	MW	Mvar				
Bus459	0.400		0.058	0.019	0	0	0	0	0	0	0.061	95.0	92.8	
Bus460	33.000		0	0	0	0	0	0	0	0	0.960	94.3	17.7	
Bus461	33.000		0	0	0	0	0	0	0	0	0.797	94.9	14.7	
Bus462	33.000		0	0	0	0	0	0	0	0	0.213	96.0	3.9	
Bus463	0.400		0.036	0.013	0	0	0	0	0	0	0.038	94.0	58.0	
Bus464	33.000		0	0	0	0	0	0	0	0	0.175	96.2	3.2	
Bus465	0.400		0.099	0.029	0	0	0	0	0	0	0.104	96.0	159.0	
Bus466	33.000		0	0	0	0	0	0	0	0	0.071	96.4	1.3	
Bus467	0.400		0.030	0.011	0	0	0	0	0	0	0.032	94.0	48.2	
Bus468	33.000		0	0	0	0	0	0	0	0	0.040	96.9	0.7	
Bus469	0.400		0.039	0.010	0	0	0	0	0	0	0.040	97.0	60.9	
Bus470	33.000		0	0	0	0	0	0	0	0	0.585	94.4	10.8	
Bus471	0.400		0.155	0.061	0	0	0	0	0	0	0.166	93.0	255.8	
Bus472	33.000		0	0	0	0	0	0	0	0	0.418	94.8	7.7	
Bus473	0.400		0.090	0.026	0	0	0	0	0	0	0.094	96.0	144.8	
Bus474	33.000		0	0	0	0	0	0	0	0	0.324	94.2	6.0	
Bus475	0.400		0.036	0.009	0	0	0	0	0	0	0.037	97.0	56.6	
Bus476	33.000		0	0	0	0	0	0	0	0	0.287	93.8	5.3	
Bus477	33.000		0	0	0	0	0	0	0	0	0.287	93.8	5.3	
Bus478	33.000		0	0	0	0	0	0	0	0	0.288	93.5	5.3	
Bus479	33.000		0	0	0	0	0	0	0	0	0.077	92.8	1.4	
Bus480	0.400		0.072	0.028	0	0	0	0	0	0	0.077	93.0	118.0	
Bus481	33.000		0	0	0	0	0	0	0	0	0.079	96.9	1.5	
Bus482	0.400		0.076	0.019	0	0	0	0	0	0	0.078	97.0	119.8	
Bus485	33.000		0	0	0	0	0	0	0	0	0.133	90.9	2.5	
Bus486	33.000		0	0	0	0	0	0	0	0	0.111	89.7	2.1	
Bus487	0.400		0.099	0.048	0	0	0	0	0	0	0.110	90.0	169.5	
Bus488	33.000		0	0	0	0	0	0	0	0	0.023	92.9	0.4	
Bus489	0.400		0.021	0.008	0	0	0	0	0	0	0.022	93.0	34.3	
Bus490	33.000		0	0	0	0	0	0	0	0	0.074	91.7	1.4	
Bus491	0.400		0.068	0.029	0	0	0	0	0	0	0.074	92.0	113.1	
Bus492	33.000		0	0	0	0	0	0	0	0	0.091	87.7	1.7	
Bus493	33.000		0	0	0	0	0	0	0	0	0.013	83.9	0.2	
Bus494	0.400		0.011	0.007	0	0	0	0	0	0	0.013	84.0	19.9	
Bus495	33.000		0	0	0	0	0	0	0	0	0.079	87.5	1.5	
Bus496	33.000		0	0	0	0	0	0	0	0	0.072	84.8	1.3	
Bus497	33.000		0	0	0	0	0	0	0	0	0.009	93.0	0.2	
Bus498	0.400		0.061	0.038	0	0	0	0	0	0	0.071	85.0	109.3	

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Bus			Directly Connected Load								Total Bus Load			
			Constant kVA		Constant Z		Constant I		Generic		MVA	% PF	Amp	Percent Loading
ID	kV	Rated Amp	MW	Mvar	MW	Mvar	MW	Mvar	MW	Mvar				
Bus499	0.400		0.008	0.003	0	0	0	0	0	0	0.009	93.0	13.0	
Bus500	33.000		0	0	0	0	0	0	0	0	1.093	96.9	20.1	
Bus501	33.000		0	0	0	0	0	0	0	0	0.258	96.2	4.8	
Bus502	0.400		0.242	0.061	0	0	0	0	0	0	0.249	97.0	392.4	
Bus503	33.000		0	0	0	0	0	0	0	0	0.157	97.9	2.9	
Bus504	33.000		0	0	0	0	0	0	0	0	0.139	97.6	2.6	
Bus505	33.000		0	0	0	0	0	0	0	0	0.018	99.0	0.3	
Bus506	0.400		0.134	0.027	0	0	0	0	0	0	0.137	98.0	211.9	
Bus507	0.400		0.018	0.003	0	0	0	0	0	0	0.018	99.0	27.4	
Bus508	33.000		0	0	0	0	0	0	0	0	0.678	96.8	12.5	
Bus509	0.400		0.088	0.018	0	0	0	0	0	0	0.090	98.0	136.8	
Bus510	33.000		0	0	0	0	0	0	0	0	0.588	96.6	10.8	
Bus511	0.400		0.008	0.006	0	0	0	0	0	0	0.010	80.0	15.2	
Bus512	33.000		0	0	0	0	0	0	0	0	0.076	97.9	1.4	
Bus513	0.400		0.074	0.015	0	0	0	0	0	0	0.076	98.0	115.2	
Bus514	33.000		0	0	0	0	0	0	0	0	0.491	96.5	9.0	
Bus515	0.400		0.082	0.055	0	0	0	0	0	0	0.099	83.0	151.7	
Bus516	33.000		0	0	0	0	0	0	0	0	0.398	98.3	7.3	
Bus517	0.400		0.053	0.015	0	0	0	0	0	0	0.055	96.0	84.0	
Bus518	33.000		0	0	0	0	0	0	0	0	0.343	98.6	6.3	
Bus519	0.400		0.331	0.047	0	0	0	0	0	0	0.334	99.0	521.7	
Bus520	33.000		0	0	0	0	0	0	0	0	0.012	97.0	0.2	
Bus521	0.400		0.012	0.003	0	0	0	0	0	0	0.012	97.0	18.8	
Bus524	0.400		0	0	0	0	0	0	0	0	0.049	100.0	62.0	
Bus525	0.400		0	0	0	0	0	0	0	0	0.049	100.0	62.0	
Bus526	0.400		0	0	0	0	0	0	0	0	0.049	100.0	62.0	
Bus527	0.400		0	0	0	0	0	0	0	0	0.049	100.0	62.0	
Bus528	0.400		0	0	0	0	0	0	0	0	0.049	100.0	62.0	
Bus529	0.400		0	0	0	0	0	0	0	0	0.049	100.0	62.0	
Bus530	0.400		0	0	0	0	0	0	0	0	0.049	100.0	62.0	
Bus531	0.400		0	0	0	0	0	0	0	0	0.049	100.0	62.0	
Bus533	0.400		0	0	0	0	0	0	0	0	0.055	100.0	67.9	
Bus536	0.400		0	0	0	0	0	0	0	0	0.055	100.0	67.9	
Bus537	0.400		0	0	0	0	0	0	0	0	0.055	100.0	67.9	
Bus538	0.400		0	0	0	0	0	0	0	0	0.055	100.0	67.9	
Bus539	0.400		0	0	0	0	0	0	0	0	0.055	100.0	67.9	
Bus540	0.400		0	0	0	0	0	0	0	0	0.055	100.0	67.9	
Bus541	0.400		0	0	0	0	0	0	0	0	0.055	100.0	67.9	

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Bus			Directly Connected Load								Total Bus Load			
			Constant kVA		Constant Z		Constant I		Generic		MVA	% PF	Amp	Percent Loading
ID	kV	Rated Amp	MW	Mvar	MW	Mvar	MW	Mvar	MW	Mvar				
Bus542	0.400		0	0	0	0	0	0	0	0	0.055	100.0	67.9	
Bus543	0.400		0	0	0	0	0	0	0	0	0.055	100.0	67.9	
Bus544	0.400		0	0	0	0	0	0	0	0	0.055	100.0	67.9	
Bus545	0.400		0	0	0	0	0	0	0	0	0.571	94.8	714.6	
Bus546	0.400		0	0	0	0	0	0	0	0	0.055	100.0	68.8	
Bus547	0.400		0	0	0	0	0	0	0	0	0.055	100.0	68.8	
Bus548	0.400		0	0	0	0	0	0	0	0	0.055	100.0	68.8	
Bus549	0.400		0	0	0	0	0	0	0	0	0.055	100.0	68.8	
Bus550	0.400		0	0	0	0	0	0	0	0	0.055	100.0	68.8	
Bus551	0.400		0	0	0	0	0	0	0	0	0.055	100.0	68.8	
Bus552	0.400		0	0	0	0	0	0	0	0	0.055	100.0	68.8	
Bus553	0.400		0	0	0	0	0	0	0	0	0.055	100.0	68.8	
Bus554	0.400		0	0	0	0	0	0	0	0	0.055	100.0	68.8	
Bus556	0.400		0	0	0	0	0	0	0	0	0.513	94.8	651.7	
Bus558	0.400		0	0	0	0	0	0	0	0	0.055	100.0	69.9	
Bus560	0.400		0	0	0	0	0	0	0	0	0.055	100.0	68.8	
Bus562	0.400		0	0	0	0	0	0	0	0	0.049	100.0	62.0	
Bus564	0.400		0	0	0	0	0	0	0	0	0.055	100.0	69.9	

* Indicates operating load of a bus exceeds the bus critical limit (100.0% of the Continuous Ampere rating).

Indicates operating load of a bus exceeds the bus marginal limit (95.0% of the Continuous Ampere rating).

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Branch Loading Summary Report

CKT / Branch		Cable & Reactor			Transformer				
ID	Type	Ampacity (Amp)	Loading Amp	%	Capability (MVA)	Loading (input)		Loading (output)	
						MVA	%	MVA	%
Cable1	Cable	307.50	2.52	0.82					
Cable2	Cable	217.71	2.82	1.30					
Cable3	Cable	217.71	1.87	0.86					
Cable4	Cable	217.71	1.18	0.54					
Cable5	Cable	217.71	1.24	0.57					
Cable7	Cable	217.71	2.58	1.18					
Cable8	Cable	217.71	1.58	0.72					
Cable44	Cable	106.42	72.41	68.04					
* Cable45	Cable	217.71	651.65	299.32					
Cable48	Cable	106.42	72.41	68.04					
Cable49	Cable	106.42	72.41	68.04					
Cable50	Cable	106.42	72.41	68.04					
Cable51	Cable	106.42	72.41	68.04					
Cable52	Cable	106.42	72.41	68.04					
Cable53	Cable	106.42	72.41	68.04					
Cable54	Cable	106.42	72.41	68.04					
Cable66	Cable	106.42	65.23	61.30					
Cable67	Cable	106.42	66.26	62.27					
Cable69	Cable	106.42	73.53	69.09					
Cable70	Cable	106.42	73.53	69.09					
Cable71	Cable	106.42	73.53	69.09					
Cable72	Cable	106.42	73.53	69.09					
Cable73	Cable	106.42	73.53	69.09					
Cable79	Cable	106.42	76.92	72.28					
Cable80	Cable	106.42	76.92	72.28					
Cable81	Cable	106.42	76.92	72.28					
Cable82	Cable	106.42	76.92	72.28					
Cable83	Cable	106.42	76.92	72.28					
Cable86	Cable	106.42	65.23	61.30					
Cable87	Cable	106.42	65.23	61.30					
Cable88	Cable	106.42	65.23	61.30					
Cable89	Cable	106.42	65.23	61.30					
Cable90	Cable	106.42	65.23	61.30					

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CKT / Branch		Cable & Reactor			Transformer				
ID	Type	Ampacity (Amp)	Loading Amp	%	Capability (MVA)	Loading (input)		Loading (output)	
						MVA	%	MVA	%
Cable91	Cable	106.42	65.23	61.30					
Cable92	Cable	106.42	65.23	61.30					
Cable93	Cable	106.42	65.23	61.30					
Cable95	Cable	106.42	71.46	67.15					
Cable98	Cable	106.42	71.46	67.15					
Cable99	Cable	106.42	71.46	67.15					
Cable100	Cable	106.42	71.46	67.15					
Cable101	Cable	106.42	71.46	67.15					
Cable102	Cable	106.42	71.46	67.15					
Cable103	Cable	106.42	71.46	67.15					
Cable104	Cable	106.42	71.46	67.15					
Cable105	Cable	106.42	71.46	67.15					
Cable106	Cable	106.42	71.46	67.15					
Cable107	Cable	106.42	72.41	68.04					
Cable108	Cable	106.42	72.41	68.04					
Cable109	Cable	106.42	72.41	68.04					
Cable110	Cable	106.42	72.41	68.04					
Cable111	Cable	106.42	72.41	68.04					
Cable112	Cable	106.42	72.41	68.04					
Cable113	Cable	106.42	72.41	68.04					
Cable114	Cable	106.42	72.41	68.04					
Cable115	Cable	106.42	72.41	68.04					
Cable118	Cable	106.42	73.53	69.09					
* Cable120	Cable	217.71	652.31	299.63					
* Cable121	Cable	217.71	580.95	266.85					
* Cable122	Cable	217.71	384.60	176.66					
* Cable123	Cable	217.71	714.60	328.24					
* Cable124	Cable	217.71	651.65	299.32					
Cable126	Cable	106.42	72.41	68.04					
Cable128	Cable	106.42	65.23	61.30					
Cable130	Cable	106.42	73.53	69.09					
* Line2	Line	103.00	104.12	101.09					
* Line3	Line	0.50	0.62	123.21					
* Line4	Line	0.50	0.66	132.21					
* Line5	Line	102.20	103.57	101.34					

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CKT / Branch		Cable & Reactor			Transformer				
ID	Type	Ampacity (Amp)	Loading Amp	%	Capability (MVA)	Loading (input)		Loading (output)	
						MVA	%	MVA	%
* Line6	Line	100.30	101.42	101.12					
* Line7	Line	100.00	101.01	101.01					
* Line8	Line	100.00	101.02	101.02					
* Line9	Line	100.00	101.04	101.04					
* Line10	Line	98.80	99.65	100.86					
* Line11	Line	97.60	98.19	100.61					
* Line12	Line	97.60	98.20	100.62					
* Line13	Line	97.30	97.88	100.59					
Line14	Line	21.30	16.82	78.97					
Line15	Line	20.10	14.90	74.11					
* Line16	Line	4.00	5.13	128.23					
* Line17	Line	2.70	3.46	128.22					
* Line18	Line	1.30	1.67	128.47					
* Line19	Line	1.30	1.67	128.66					
* Line20	Line	1.40	1.68	119.86					
Line21	Line	17.80	10.65	59.85					
Line22	Line	17.80	10.66	59.89					
Line23	Line	16.00	7.57	47.34					
* Line24	Line	0.60	0.71	118.50					
* Line25	Line	0.60	0.71	118.44					
* Line26	Line	0.50	0.55	109.56					
Line27	Line	15.60	7.11	45.56					
* Line28	Line	0.40	0.49	122.70					
Line29	Line	15.60	7.13	45.73					
Line30	Line	15.30	6.97	45.56					
* Line31	Line	2.10	2.80	133.57					
Line32	Line	15.10	7.72	51.13					
Line33	Line	15.10	8.21	54.37					
* Line34	Line	0.30	0.45	149.90					
* Line35	Line	0.10	0.13	132.52					
Line36	Line	15.40	10.28	66.75					
Line37	Line	15.80	12.14	76.84					
Line38	Line	15.80	12.49	79.02					
Line39	Line	15.80	12.49	79.04					
Line40	Line	66.00	12.49	18.92					

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CKT / Branch		Cable & Reactor			Transformer				
ID	Type	Ampacity (Amp)	Loading Amp	%	Capability (MVA)	Loading (input)		Loading (output)	
						MVA	%	MVA	%
Line41	Line	0.10	0.06	64.24					
Line42	Line	0.10	0.04	37.04					
Line44	Line	15.90	12.51	78.69					
Line45	Line	16.00	12.66	79.11					
Line46	Line	66.00	12.82	19.43					
Line47	Line	16.90	12.43	73.57					
Line48	Line	45.80	42.33	92.41					
Line49	Line	47.30	44.13	93.29					
Line50	Line	49.00	46.56	95.02					
* Line51	Line	2.10	2.60	123.89					
* Line52	Line	1.00	1.18	118.29					
Line53	Line	51.10	49.15	96.18					
Line54	Line	52.10	50.39	96.72					
Line55	Line	52.60	51.05	97.05					
Line56	Line	53.80	52.60	97.77					
* Line57	Line	4.10	5.19	126.63					
* Line58	Line	3.40	4.45	130.75					
* Line59	Line	11.40	57.53	504.63					
* Line60	Line	57.40	58.83	102.48					
* Line61	Line	1.30	1.55	119.05					
* Line62	Line	60.80	61.95	101.89					
* Line63	Line	0.40	0.52	130.28					
* Line64	Line	61.10	62.41	102.15					
Line65	Line	0.20	0.15	73.19					
* Line66	Line	61.20	62.53	102.18					
* Line67	Line	67.00	69.76	104.13					
* Line68	Line	0.20	0.31	156.69					
* Line69	Line	67.10	70.02	104.35					
* Line70	Line	0.30	0.43	144.70					
* Line71	Line	5.80	7.24	124.78					
* Line72	Line	0.90	1.08	120.09					
* Line73	Line	0.20	0.36	179.87					
* Line74	Line	5.20	6.16	118.52					
* Line75	Line	0.20	0.24	117.84					
* Line76	Line	3.40	4.27	125.48					

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CKT / Branch		Cable & Reactor			Transformer				
ID	Type	Ampacity (Amp)	Loading Amp	%	Capability (MVA)	Loading (input)		Loading (output)	
						MVA	%	MVA	%
* Line77	Line	3.00	3.61	120.33					
* Line78	Line	2.40	3.01	125.60					
* Line79	Line	1.00	1.32	131.90					
Line81	Line	36.90	30.69	83.18					
Line83	Line	38.60	30.69	79.52					
* Line84	Line	4.10	5.21	127.08					
* Line85	Line	3.00	3.85	128.19					
* Line86	Line	2.80	3.56	127.10					
* Line87	Line	2.80	3.56	127.17					
* Line88	Line	2.80	3.60	128.61					
* Line89	Line	2.20	2.75	124.89					
* Line90	Line	1.50	1.91	127.60					
* Line91	Line	1.50	1.92	127.89					
* Line92	Line	0.70	0.95	135.85					
Line93	Line	0.10	0.07	74.06					
Line94	Line	32.70	25.50	77.98					
Line95	Line	32.70	25.54	78.09					
Line96	Line	13.70	1.38	10.05					
* Line97	Line	19.10	24.22	126.81					
* Line98	Line	10.30	13.06	126.80					
* Line99	Line	4.60	5.77	125.41					
* Line100	Line	2.90	3.68	126.91					
* Line101	Line	2.00	2.52	126.17					
* Line102	Line	2.00	2.52	126.24					
* Line103	Line	5.80	7.32	126.13					
* Line104	Line	5.80	7.29	125.70					
* Line105	Line	5.10	6.47	126.80					
* Line106	Line	0.90	1.12	124.14					
* Line108	Line	0.90	1.12	124.93					
* Line109	Line	3.10	3.94	126.95					
* Line110	Line	2.80	3.54	126.42					
* Line111	Line	2.40	3.09	128.55					
* Line112	Line	1.30	1.60	122.73					
* Line113	Line	0.20	0.21	107.01					
* Line114	Line	8.90	11.21	125.92					

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ID	Type	Ampacity (Amp)	Loading Amp	%	Capability (MVA)	Loading (input)		Loading (output)	
						MVA	%	MVA	%
* Line115	Line	0.90	1.08	119.70					
* Line116	Line	8.00	10.14	126.70					
* Line117	Line	6.60	8.44	127.92					
* Line118	Line	5.00	6.27	125.30					
* Line120	Line	2.30	2.97	129.02					
* Line121	Line	0.80	1.04	130.06					
* Line122	Line	1.80	2.30	127.84					
* Line123	Line	1.80	2.20	122.00					
* Line124	Line	0.40	0.55	137.99					
* Line125	Line	1.40	1.70	121.62					
* Line126	Line	1.40	1.69	120.69					
* Line127	Line	1.00	1.29	129.38					
* Line129	Line	80.00	81.12	101.40					
* Line130	Line	1.80	2.40	133.17					
* Line131	Line	78.20	78.98	100.99					
* Line132	Line	77.80	78.68	101.12					
* Line133	Line	75.20	75.70	100.67					
* Line134	Line	75.20	75.72	100.69					
* Line136	Line	72.60	72.92	100.44					
* Line137	Line	2.10	2.66	126.62					
Line138	Line	70.50	70.47	99.95					
Line139	Line	70.50	70.48	99.96					
* Line141	Line	0.60	0.71	117.62					
* Line142	Line	0.60	0.72	119.46					
* Line143	Line	0.50	0.65	129.44					
* Line144	Line	0.50	0.65	130.42					
* Line145	Line	15.30	19.46	127.22					
* Line146	Line	14.20	18.13	127.70					
* Line147	Line	0.50	0.64	127.42					
* Line148	Line	13.80	17.52	126.98					
* Line149	Line	13.00	16.62	127.88					
* Line150	Line	1.40	1.84	131.74					
* Line152	Line	10.80	13.76	127.40					
* Line153	Line	1.10	1.43	130.20					
* Line154	Line	0.70	0.91	130.58					

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CKT / Branch		Cable & Reactor			Transformer				
ID	Type	Ampacity (Amp)	Loading Amp	%	Capability (MVA)	Loading (input)		Loading (output)	
						MVA	%	MVA	%
* Line155	Line	9.00	11.43	126.99					
* Line156	Line	6.00	7.67	127.81					
* Line157	Line	3.80	4.93	129.72					
* Line158	Line	3.30	4.22	127.77					
* Line159	Line	2.20	2.88	130.99					
* Line160	Line	0.60	0.73	121.49					
* Line161	Line	72.60	72.91	100.43					
* Line162	Line	16.00	20.15	125.92					
* Line163	Line	11.60	14.78	127.46					
* Line164	Line	1.80	2.32	128.68					
* Line165	Line	1.80	2.33	129.26					
* Line167	Line	1.60	2.04	127.34					
* Line168	Line	0.20	0.30	149.14					
Line169	Line	0.20	0.17	84.94					
* Line171	Line	1.40	1.78	127.41					
* Line172	Line	1.20	1.57	131.14					
* Line173	Line	0.20	0.23	114.91					
Line175	Line	54.20	54.13	99.86					
Line176	Line	54.20	54.16	99.93					
* Line177	Line	1.00	1.29	128.64					
Line178	Line	53.30	53.13	99.68					
Line179	Line	0.10	0.06	61.61					
Line180	Line	53.20	53.10	99.81					
* Line182	Line	53.20	67.89	127.60					
* Line183	Line	51.50	65.75	127.67					
* Line184	Line	16.20	20.73	127.94					
* Line185	Line	12.20	15.51	127.09					
* Line186	Line	12.20	15.51	127.13					
* Line187	Line	11.00	14.13	128.44					
* Line188	Line	4.60	5.85	127.12					
* Line189	Line	2.20	2.80	127.09					
* Line190	Line	2.20	2.81	127.94					
* Line191	Line	0.50	0.65	129.49					
* Line195	Line	1.10	1.40	127.27					
* Line196	Line	4.10	5.24	127.73					

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ID	Type	Ampacity (Amp)	Loading Amp	%	Capability (MVA)	Loading (input)		Loading (output)	
						MVA	%	MVA	%
* Line197	Line	3.00	3.73	124.23					
* Line198	Line	1.60	2.09	130.44					
* Line199	Line	1.00	1.30	129.62					
* Line200	Line	35.40	45.22	127.73					
* Line201	Line	2.00	2.54	127.21					
* Line202	Line	2.00	2.55	127.69					
* Line203	Line	33.50	42.77	127.67					
* Line204	Line	0.60	0.74	123.34					
* Line205	Line	33.00	42.06	127.45					
* Line206	Line	17.30	21.98	127.07					
* Line207	Line	3.40	4.31	126.73					
* Line208	Line	0.90	1.13	125.01					
* Line209	Line	13.80	17.69	128.20					
* Line210	Line	11.50	14.70	127.83					
* Line212	Line	2.60	3.23	124.34					
* Line213	Line	1.00	1.31	131.19					
* Line214	Line	0.60	0.74	123.01					
* Line215	Line	8.50	10.79	126.96					
* Line216	Line	6.10	7.71	126.38					
* Line217	Line	4.60	5.97	129.84					
* Line218	Line	4.10	5.29	129.04					
* Line219	Line	4.10	5.31	129.50					
* Line220	Line	1.10	1.43	130.00					
* Line221	Line	1.10	1.45	131.96					
* Line222	Line	1.90	2.45	129.16					
* Line223	Line	1.60	2.05	128.40					
* Line224	Line	0.30	0.42	138.77					
* Line225	Line	1.10	1.37	124.64					
* Line226	Line	1.30	1.68	129.17					
* Line227	Line	0.20	0.24	120.46					
* Line228	Line	1.10	1.45	131.99					
Line229	Line	0.20	0.16	78.87					
* Line230	Line	1.00	1.33	132.53					
* Line231	Line	15.80	20.13	127.41					
* Line232	Line	3.90	4.76	121.97					

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CKT / Branch		Cable & Reactor			Transformer				
ID	Type	Ampacity (Amp)	Loading Amp	%	Capability (MVA)	Loading (input)		Loading (output)	
						MVA	%	MVA	%
* Line233	Line	2.20	2.90	131.71					
* Line234	Line	0.20	0.33	166.26					
* Line235	Line	2.00	2.57	128.40					
* Line236	Line	9.90	12.49	126.14					
* Line237	Line	8.50	10.84	127.48					
* Line238	Line	1.10	1.40	126.96					
* Line239	Line	7.00	9.05	129.29					
* Line240	Line	5.80	7.33	126.46					
* Line241	Line	5.00	6.32	126.48					
* Line242	Line	0.20	0.23	114.07					
* Line243	Line	3.10	3.93	126.70					
Line43	Line	0.10	0.03	28.27					
3en zaya	Transformer				0.063	0.035	55.9	0.035	55.3
abo hameed	Transformer				0.396	0.139	35.1	0.138	34.7
abo khadeer	Transformer				0.157	0.095	60.6	0.094	59.8
* abo omar	Transformer				0.031	0.042	134.0	0.041	130.6
abo shehab	Transformer				0.396	0.189	47.7	0.187	47.3
abo shehadeh	Transformer				0.157	0.040	25.5	0.040	25.4
abo tareq	Transformer				0.396	0.037	9.4	0.037	9.4
abu omar	Transformer				0.251	0.184	73.2	0.181	72.1
administration college	Transformer				0.251	0.059	23.6	0.059	23.5
agricultural project	Transformer				0.396	0.083	21.0	0.083	20.9
al bassateen	Transformer				0.396	0.168	42.4	0.166	42.0
al hafria	Transformer				0.157	0.074	47.4	0.074	46.8
al kafeer main	Transformer				0.063	0.010	15.7	0.010	15.7
al-3een	Transformer				0.396	0.076	19.1	0.076	19.1
al-aqapeh	Transformer				0.251	0.036	14.4	0.036	14.4
al-ashqar stone cutter	Transformer				0.396	0.070	17.8	0.070	17.7
al-battman	Transformer				0.063	0.050	79.5	0.049	78.1
al-daqnya	Transformer				0.157	0.130	82.7	0.128	81.3
al-hawooz 1	Transformer				0.251	0.139	55.3	0.137	54.7
al-helal	Transformer				0.157	0.132	84.3	0.130	82.8
al-hesba	Transformer				0.157	0.038	24.3	0.038	24.2
al-kharaz	Transformer				0.101	0.040	39.8	0.040	39.4
al-masa3eed	Transformer				0.157	0.132	84.1	0.130	82.6

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ID	Type	Ampacity (Amp)	Loading Amp	%	Capability (MVA)	Loading (input)		Loading (output)	
						MVA	%	MVA	%
al-mtalleh	Transformer				0.101	0.012	11.6	0.012	11.6
al-shareef	Transformer				0.396	0.090	22.7	0.090	22.6
al-thoghrah	Transformer				0.101	0.089	87.8	0.087	86.2
alBATTAH	Transformer				0.101	0.073	72.7	0.072	71.6
ALJALHOOM	Transformer				0.101	0.009	8.5	0.009	8.5
* ALMISHMAS	Transformer				0.157	0.157	100.1	0.154	97.9
alrass	Transformer				0.157	0.040	25.3	0.040	25.2
alrfaid	Transformer				0.157	0.150	95.3	0.146	93.3
amnawaqa2	Transformer				0.101	0.034	33.4	0.034	33.2
anabosa	Transformer				0.157	0.021	13.5	0.021	13.4
aqapeh main	Transformer				100.536	0.038	0.0	0.037	0.0
arciticular college	Transformer				0.251	0.069	27.5	0.069	27.3
ATOOF	Transformer				0.101	0.008	8.2	0.008	8.2
* AUU intersiction ZA	Transformer				0.040	0.076	191.2	0.075	190.4
beer al- basha	Transformer				0.251	0.098	39.0	0.097	38.7
burhan	Transformer				0.157	0.078	49.8	0.077	49.3
dawajen	Transformer				0.157	0.018	11.7	0.018	11.7
dewan	Transformer				0.251	0.119	47.4	0.118	46.9
dream land	Transformer				0.251	0.057	22.8	0.057	22.7
dream land 1	Transformer				0.396	0.044	11.2	0.044	11.2
dream land 2	Transformer				0.251	0.071	28.4	0.071	28.2
east jarpa	Transformer				0.101	0.087	86.2	0.085	84.6
east of raba	Transformer				0.157	0.052	33.4	0.052	33.1
eastern al-maghura	Transformer				0.157	0.077	49.3	0.077	48.8
eastren al-jalquoua	Transformer				0.101	0.024	24.1	0.024	24.0
eastren aqapa	Transformer				0.251	0.144	57.5	0.143	56.8
eastren beer basha	Transformer				0.157	0.075	47.6	0.074	47.1
eastren maslya	Transformer				0.251	0.087	34.7	0.087	34.5
eastren zababde	Transformer				0.396	0.117	29.6	0.116	29.4
eastren zawya	Transformer				0.101	0.018	17.7	0.018	17.6
esfalt	Transformer				0.396	0.001	0.3	0.001	0.3
essawi	Transformer				0.157	0.023	14.4	0.022	14.3
farah	Transformer				0.251	0.079	31.3	0.078	31.1
faysel well	Transformer				0.396	0.119	30.2	0.119	29.9
first of the town	Transformer				0.157	0.101	64.2	0.099	63.3

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ID	Type	Ampacity (Amp)	Loading Amp	%	Capability (MVA)	Loading (input)		Loading (output)	
						MVA	%	MVA	%
gas station	Transformer				0.157	0.063	39.9	0.062	39.5
grand plaza DL	Transformer				0.157	0.056	36.0	0.056	35.7
hafreya	Transformer				0.063	0.036	57.8	0.036	57.3
HAKIM	Transformer				0.039	0.013	32.2	0.013	32.1
hawooz aqapa	Transformer				0.157	0.023	14.8	0.023	14.7
huseen al araj	Transformer				0.157	0.035	22.4	0.035	22.3
jarpa main	Transformer				0.251	0.094	37.6	0.094	37.3
karag	Transformer				0.157	0.114	72.9	0.113	71.7
kasaret abo asaad	Transformer				0.251	0.072	28.6	0.071	28.4
kazeya	Transformer				0.251	0.105	41.6	0.104	41.3
kazeyt samara	Transformer				0.251	0.022	8.7	0.022	8.7
keshda main	Transformer				0.031	0.003	10.7	0.003	10.7
khalet al qaser 1	Transformer				0.251	0.231	91.9	0.225	89.8
khalet al qaser 2	Transformer				0.396	0.070	17.8	0.070	17.7
khalt el looz	Transformer				0.101	0.004	4.1	0.004	4.1
khrrpet aisha	Transformer				0.031	0.002	6.1	0.002	6.1
mahajeer 1	Transformer				0.396	0.014	3.4	0.014	3.4
mahta	Transformer				0.251	0.191	76.0	0.188	74.8
main om toot	Transformer				0.251	0.062	24.6	0.061	24.4
malhamah	Transformer				0.396	0.010	2.5	0.010	2.5
mamdooh	Transformer				0.251	0.077	30.9	0.077	30.6
manasheer meselya	Transformer				0.396	0.039	9.8	0.039	9.8
manasheer ZA	Transformer				157.087	0.019	0.0	0.019	0.0
marah karas	Transformer				0.063	0.026	41.3	0.026	40.9
masalya	Transformer				0.063	0.045	71.7	0.044	70.7
masria	Transformer				0.063	0.038	60.8	0.038	60.0
masriya	Transformer				0.396	0.092	23.3	0.092	23.2
mass stone	Transformer				0.396	0.022	5.5	0.022	5.5
* mass stones	Transformer				0.040	0.070	177.5	0.070	176.7
MAWAFAQ FAKHRY	Transformer				0.396	0.086	21.7	0.085	21.6
mawfak al-fakhry	Transformer				0.396	0.076	19.2	0.076	19.1
middle jalqumya	Transformer				0.251	0.080	31.9	0.079	31.6
middle of raba	Transformer				0.157	0.054	34.5	0.054	34.2
middle zababdeh	Transformer				0.251	0.137	54.5	0.135	53.9
midecin	Transformer				0.396	0.064	16.2	0.064	16.2

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ID	Type	Ampacity (Amp)	Loading Amp	%	Capability (MVA)	Loading (input)		Loading (output)	
						MVA	%	MVA	%
midical harps	Transformer				0.101	0.025	25.2	0.025	25.0
mo2ayad fridges	Transformer				0.226	0.074	32.9	0.074	32.7
mohafada	Transformer				0.157	0.035	22.2	0.035	22.1
mohammad al basher	Transformer				0.396	0.318	80.2	0.311	78.6
national security	Transformer				0.101	0.080	78.8	0.078	77.6
* old station	Transformer				0.251	0.343	136.7	0.334	133.2
pickle factory	Transformer				0.251	0.070	28.0	0.070	27.8
plastic factory	Transformer				0.157	0.029	18.7	0.029	18.6
police	Transformer				0.157	0.056	36.0	0.056	35.7
princec palce	Transformer				0.157	0.076	48.6	0.076	48.2
rahwa	Transformer				0.251	0.047	18.7	0.047	18.6
rahwa.	Transformer				0.063	0.047	75.5	0.047	74.2
RAS AL-MATTALEH	Transformer				0.101	0.017	16.7	0.017	16.6
refat	Transformer				0.251	0.087	34.6	0.086	34.3
refat 2	Transformer				0.251	0.087	34.6	0.086	34.3
registration bulding	Transformer				0.396	0.094	23.8	0.094	23.6
royal	Transformer				0.396	0.087	21.8	0.086	21.8
safeena	Transformer				0.251	0.061	24.3	0.061	24.2
safya north	Transformer				0.157	0.027	17.2	0.027	17.2
salhab	Transformer				0.063	0.007	11.6	0.007	11.6
sameeh abo khezaran	Transformer				0.251	0.012	4.9	0.012	4.9
sameeh.	Transformer				0.157	0.020	12.7	0.020	12.7
sameer motlaq	Transformer				0.251	0.111	44.3	0.110	43.9
school	Transformer				0.251	0.032	12.6	0.032	12.6
school.	Transformer				0.157	0.139	88.8	0.137	87.2
sefferya zababdeh	Transformer				0.157	0.068	43.5	0.068	43.1
shcool maraqa	Transformer				0.251	0.096	38.1	0.095	37.8
shcool zababdeh	Transformer				0.157	0.103	65.6	0.102	64.7
shereen	Transformer				0.101	0.036	35.4	0.035	35.1
span	Transformer				0.063	0.009	14.7	0.009	14.7
sport stidium 1	Transformer				0.628	0.063	10.1	0.063	10.0
sport stidium 2	Transformer				0.628	0.063	10.1	0.063	10.0
stadium	Transformer				0.157	0.055	35.2	0.055	34.9
stone cutter	Transformer				157.087	0.030	0.0	0.030	0.0
* T1	Transformer				0.396	0.432	109.1	0.431	108.8

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ID	Type	Ampacity (Amp)	Loading Amp	%	Capability (MVA)	Loading (input)		Loading (output)	
						MVA	%	MVA	%
* T2	Transformer				0.396	0.432	109.2	0.431	109.0
T3	Transformer				0.396	0.385	97.3	0.384	97.0
T4	Transformer				15.709	5.715	36.4	5.620	35.8
* T6	Transformer				0.251	0.255	101.8	0.254	101.4
* T7	Transformer				0.396	0.474	119.6	0.473	119.4
* T8	Transformer				0.396	0.432	109.1	0.431	108.8
T63	Transformer				0.396				
tayseer main	Transformer				157.087	0.137	0.1	0.134	0.1
thiab	Transformer				0.396	0.114	28.7	0.113	28.5
* tlfeet	Transformer				0.063	0.076	120.5	0.074	118.3
tneen main	Transformer				0.101	0.030	30.0	0.030	29.9
toop factory	Transformer				0.251	0.091	36.1	0.090	35.9
tubas hospital 2	Transformer				0.396	0.154	39.0	0.153	38.6
tubas weel	Transformer				0.157	0.146	92.9	0.143	90.9
tubas well	Transformer				0.251	0.018	7.2	0.018	7.2
tupas hospital 1	Transformer				0.396	0.001	0.3	0.001	0.3
wadi al efsha	Transformer				0.031	0.008	26.4	0.008	26.3
wadi d3oqa	Transformer				0.063	0.020	32.5	0.020	32.2
wastren al-maghayer	Transformer				0.157	0.082	52.2	0.081	51.6
water pumb	Transformer				0.251	0.013	5.3	0.013	5.3
* weastern	Transformer				0.157	0.258	164.5	0.249	158.8
weel	Transformer				0.396	0.050	12.6	0.050	12.6
weels	Transformer				0.396	0.248	62.5	0.244	61.6
well	Transformer				0.251	0.100	39.7	0.099	39.3
west 1 AUU	Transformer				0.251	0.076	30.3	0.076	30.1
west 2 AUU	Transformer				0.396	0.064	16.2	0.064	16.2
westren jalqnosa	Transformer				0.101	0.046	45.5	0.046	45.1
westren maslya	Transformer				0.251	0.073	29.2	0.073	29.0
westren zababdeh	Transformer				0.251	0.084	33.4	0.083	33.1
westren zayah 2	Transformer				0.157	0.025	15.8	0.025	15.8
westwern aqapa	Transformer				0.251	0.145	57.8	0.143	57.0
yaseed east	Transformer				0.157	0.013	8.3	0.013	8.3
yaseed west	Transformer				0.157	0.009	5.4	0.009	5.4
zakarnch 1	Transformer				0.396	0.001	0.3	0.001	0.3

* Indicates a branch with operating load exceeding the branch capability.

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Branch Losses Summary Report

CKT / Branch		From-To Bus Flow		To-From Bus Flow		Losses		% Bus Voltage		Vd
ID		MW	Mvar	MW	Mvar	kW	kvar	From	To	% Drop in Vmag
Line2		4.394	4.013	-4.394	-4.013	0.8	0.3	100.0	100.0	0.01
Line3		0.031	0.017	-0.031	-0.017	0.0	-0.2	100.0	100.0	0.00
Line5		4.363	3.997	-4.359	-3.989	4.1	7.1	100.0	99.8	0.17
Line4		0.031	0.017	-0.031	-0.022	0.0	-4.9	100.0	100.0	0.01
aqapeh main		0.031	0.022	-0.031	-0.021	0.2	0.3	100.0	99.1	0.88
Line6		4.229	3.945	-4.192	-3.931	37.3	14.2	99.8	99.1	0.69
tayseer main		0.129	0.044	-0.128	-0.042	1.7	2.5	99.8	98.1	1.73
Line7		4.168	3.922	-4.165	-3.921	3.1	1.2	99.1	99.1	0.06
midical harps		0.024	0.009	-0.024	-0.009	0.1	0.1	99.1	98.6	0.52
Line8		4.165	3.921	-4.160	-3.919	5.3	2.0	99.1	99.0	0.10
T4		4.160	3.919	-4.153	-3.786	6.7	133.2	99.0	97.3	1.65
Line9		4.153	3.786	-4.139	-3.780	14.5	5.6	97.3	97.1	0.27
Line10		4.053	3.757	-4.036	-3.751	16.9	6.5	97.1	96.7	0.32
al-thoghrah		0.086	0.023	-0.084	-0.021	1.2	1.7	97.1	95.4	1.70
Line11		3.949	3.725	-3.940	-3.721	9.2	3.5	96.7	96.6	0.17
toop factory		0.087	0.026	-0.086	-0.025	0.5	0.7	96.7	96.0	0.72
Line12		3.940	3.721	-3.934	-3.719	5.7	2.1	96.6	96.5	0.11
Line13		3.915	3.713	-3.913	-3.712	2.7	1.0	96.5	96.4	0.05
sameeh.		0.019	0.006	-0.019	-0.006	0.0	0.1	96.5	96.2	0.26
Line14		0.717	0.587	-0.717	-0.587	0.3	-0.9	96.4	96.4	0.03
Line129		3.196	3.125	-3.196	-3.125	0.3	0.2	96.4	96.4	0.01
Line15		0.608	0.550	-0.608	-0.551	0.1	-0.4	96.4	96.4	0.01
karag		0.108	0.037	-0.107	-0.035	1.3	1.9	96.4	94.9	1.50
Line16		0.274	0.069	-0.274	-0.069	0.0	-0.5	96.4	96.4	0.00
Line21		0.334	0.482	-0.334	-0.482	0.0	-0.3	96.4	96.4	0.01
Line17		0.184	0.049	-0.184	-0.049	0.0	-0.4	96.4	96.4	0.00
Line18		0.090	0.021	-0.090	-0.021	0.0	-0.2	96.4	96.4	0.00
mahta		0.184	0.049	-0.182	-0.046	2.2	3.3	96.4	94.9	1.47
Line19		0.090	0.021	-0.090	-0.022	0.0	-0.6	96.4	96.4	0.00
Line20		0.090	0.022	-0.090	-0.023	0.0	-1.2	96.4	96.4	0.00
masriya		0.090	0.023	-0.089	-0.022	0.3	0.5	96.4	95.9	0.45
Line22		0.334	0.482	-0.334	-0.483	0.0	-0.4	96.4	96.4	0.01
Cable1		0.130	0.031	-0.130	-0.049	0.0	-17.3	96.4	96.3	0.00
Line23		0.079	0.408	-0.079	-0.410	0.1	-1.3	96.4	96.3	0.01
al-helal		0.125	0.043	-0.123	-0.041	1.7	2.5	96.4	94.6	1.74

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CKT / Branch ID	From-To Bus Flow		To-From Bus Flow		Losses		% Bus Voltage		Vd % Drop in Vmag
	MW	Mvar	MW	Mvar	kW	kvar	From	To	
al-hawooz 1	0.130	0.049	-0.129	-0.047	1.2	1.7	96.3	95.2	1.16
Line24	0.039	-0.003	-0.039	0.002	0.0	-0.3	96.3	96.3	0.00
Line27	-0.086	0.379	0.086	-0.382	0.1	-2.9	96.3	96.3	0.01
al-daqnya	0.125	0.033	-0.124	-0.031	1.6	2.4	96.3	94.7	1.61
Line25	0.039	-0.002	-0.039	0.000	0.0	-2.6	96.3	96.3	0.00
Line26	0.030	-0.002	-0.030	0.000	0.0	-2.3	96.3	96.3	0.00
span	0.009	0.002	-0.009	-0.002	0.0	0.0	96.3	96.1	0.28
stone cutter	0.030	0.000	-0.030	0.000	0.1	0.1	96.3	96.1	0.28
Line28	0.026	0.006	-0.026	-0.008	0.0	-1.8	96.3	96.3	0.00
Line29	-0.112	0.376	0.112	-0.377	0.0	-0.5	96.3	96.3	0.00
safya north	0.026	0.008	-0.026	-0.008	0.1	0.1	96.3	96.0	0.34
Line30	-0.142	0.356	0.142	-0.357	0.0	-0.3	96.3	96.3	0.00
al-aqapeh	0.030	0.020	-0.030	-0.020	0.1	0.1	96.3	96.0	0.35
Cable2	0.140	0.039	-0.140	-0.068	0.0	-29.4	96.3	96.3	0.00
Line32	-0.281	0.318	0.281	-0.319	0.0	-0.7	96.3	96.3	0.00
Line31	0.139	0.068	-0.139	-0.068	0.0	-0.2	96.3	96.3	0.00
tupas hospital 1	0.001	0.000	-0.001	0.000	0.0	0.0	96.3	96.3	0.00
tubas hospital 2	0.139	0.068	-0.138	-0.067	0.9	1.4	96.3	95.4	0.88
Line33	-0.339	0.295	0.340	-0.298	0.2	-3.1	96.3	96.4	0.02
gas station	0.058	0.023	-0.058	-0.023	0.4	0.6	96.3	95.5	0.86
Line34	0.024	0.004	-0.024	-0.006	0.0	-2.4	96.4	96.3	0.00
Line36	-0.503	0.258	0.503	-0.259	0.1	-1.3	96.4	96.4	0.01
eastren aqapa	0.140	0.037	-0.138	-0.035	1.2	1.9	96.4	95.2	1.11
Line35	0.007	-0.001	-0.007	-0.002	0.0	-3.0	96.3	96.3	0.00
dawajen	0.017	0.007	-0.017	-0.007	0.0	0.0	96.3	96.1	0.26
salhab	0.007	0.002	-0.007	-0.002	0.0	0.0	96.3	96.1	0.23
Line37	-0.636	0.201	0.637	-0.205	0.6	-4.1	96.4	96.4	0.07
westwern aqapa	0.133	0.058	-0.132	-0.056	1.3	1.9	96.4	95.1	1.26
Line38	-0.659	0.198	0.659	-0.199	0.1	-0.6	96.4	96.4	0.01
hawooz aqapa	0.022	0.007	-0.022	-0.007	0.1	0.1	96.4	96.1	0.30
Line39	-0.659	0.199	0.659	-0.199	0.1	-0.4	96.4	96.5	0.01
Line40	-0.659	0.199	0.659	-0.199	0.1	-0.4	96.5	96.5	0.01
Line41	0.000	-0.004	0.000	0.002	0.0	-1.5	96.5	96.5	0.00
Line44	-0.659	0.203	0.659	-0.203	0.1	-0.4	96.5	96.5	0.01
Line42	0.000	-0.002	0.000	0.002	0.0	-0.5	96.5	96.5	0.00
Line43	0.000	-0.002	0.000	0.000	0.0	-1.6	96.5	96.5	0.00
Line45	-0.668	0.199	0.668	-0.202	0.0	-2.2	96.5	96.5	0.00

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CKT / Branch ID	From-To Bus Flow		To-From Bus Flow		Losses		% Bus Voltage		Vd % Drop in Vmag
	MW	Mvar	MW	Mvar	kW	kvar	From	To	
al kafeer main	0.009	0.004	-0.009	-0.004	0.0	0.0	96.5	96.1	0.35
Line46	-0.679	0.193	0.680	-0.196	0.5	-2.8	96.5	96.5	0.05
mahajeer 1	0.011	0.008	-0.011	-0.008	0.0	0.0	96.5	96.3	0.21
Line47	-0.681	0.079	0.681	-0.080	0.1	-0.9	96.5	96.5	0.02
eastren zababdeh	0.002	0.117	-0.001	-0.116	0.5	0.8	96.5	95.9	0.65
Line48	-2.295	-0.434	2.295	0.434	0.6	-0.1	96.5	96.6	0.03
Line81	1.613	0.514	-1.613	-0.515	0.6	-0.4	96.5	96.5	0.04
Cable3	0.099	0.014	-0.099	-0.030	0.0	-15.8	96.6	96.6	0.00
Line49	-2.394	-0.449	2.395	0.448	0.7	-0.1	96.6	96.6	0.03
shcool zababdeh	0.099	0.030	-0.098	-0.028	1.0	1.5	96.6	95.3	1.31
Line50	-2.521	-0.500	2.522	0.500	0.6	0.0	96.6	96.6	0.02
middle zababdeh	0.127	0.051	-0.126	-0.050	1.1	1.7	96.6	95.4	1.17
Line51	0.143	0.017	-0.143	-0.017	0.0	-0.2	96.6	96.6	0.00
Line53	-2.665	-0.517	2.667	0.517	2.8	0.1	96.6	96.7	0.11
Cable4	0.064	-0.012	-0.064	-0.012	0.0	-24.2	96.6	96.6	0.00
westren zababdeh	0.079	0.029	-0.078	-0.028	0.4	0.6	96.6	95.9	0.70
Line52	0.064	0.012	-0.064	-0.013	0.0	-0.4	96.6	96.6	0.00
Cable5	0.064	0.013	-0.064	-0.024	0.0	-11.0	96.6	96.6	0.00
sefferya zababdeh	0.064	0.024	-0.064	-0.023	0.4	0.7	96.6	95.7	0.91
Line54	-2.736	-0.527	2.749	0.528	13.0	0.8	96.7	97.2	0.49
arciticular college	0.068	0.010	-0.068	-0.010	0.3	0.4	96.7	96.2	0.48
Line55	-2.783	-0.546	2.788	0.546	4.9	0.3	97.2	97.4	0.18
manasheer meselya	0.035	0.018	-0.035	-0.018	0.1	0.1	97.2	97.0	0.22
Line56	-2.873	-0.568	2.875	0.568	2.6	0.2	97.4	97.5	0.09
eastren maslyya	0.084	0.022	-0.084	-0.021	0.4	0.7	97.4	96.7	0.66
Line57	0.250	0.143	-0.250	-0.145	0.0	-1.7	97.5	97.5	0.02
Line59	-3.126	-0.711	3.126	0.711	0.2	0.0	97.5	97.5	0.01
Line58	0.207	0.132	-0.207	-0.136	0.1	-3.8	97.5	97.4	0.03
masalya	0.043	0.013	-0.043	-0.012	0.5	0.7	97.5	96.0	1.42
weels	0.207	0.136	-0.205	-0.132	2.3	3.4	97.4	96.0	1.48
Line60	-3.194	-0.738	3.222	0.743	28.4	4.8	97.5	98.4	0.92
westren maslyya	0.068	0.027	-0.068	-0.027	0.3	0.5	97.5	96.9	0.62
Line61	0.081	0.032	-0.081	-0.033	0.0	-1.4	98.4	98.4	0.00
Line62	-3.387	-0.816	3.391	0.817	3.1	0.6	98.4	98.5	0.10
jarpa main	0.085	0.042	-0.084	-0.041	0.5	0.8	98.4	97.6	0.83
east jarpa	0.081	0.033	-0.079	-0.031	1.1	1.6	98.4	96.6	1.83
Line63	0.023	0.018	-0.023	-0.018	0.0	-0.3	98.5	98.5	0.00

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CKT / Branch ID	From-To Bus Flow		To-From Bus Flow		Losses		% Bus Voltage		Vd % Drop in Vmag
	MW	Mvar	MW	Mvar	kW	kvar	From	To	
Line64	-3.413	-0.835	3.431	0.839	17.8	3.6	98.5	99.1	0.54
plastic factory	0.023	0.018	-0.023	-0.018	0.1	0.1	98.5	98.1	0.45
Line65	0.008	0.001	-0.008	-0.002	0.0	-0.6	99.1	99.1	0.00
Line66	-3.439	-0.840	3.443	0.841	3.7	0.7	99.1	99.2	0.11
wadi al efsHa	0.008	0.002	-0.008	-0.002	0.0	0.0	99.1	98.6	0.50
Line67	-3.842	-0.936	3.866	0.942	24.3	6.2	99.2	99.8	0.66
Line71	0.399	0.095	-0.399	-0.095	0.0	-0.7	99.2	99.2	0.01
Line68	0.014	0.010	-0.014	-0.011	0.0	-1.2	99.8	99.8	0.00
Line69	-3.880	-0.952	3.887	0.953	6.3	1.6	99.8	100.0	0.17
eastren zawya	0.014	0.011	-0.014	-0.011	0.0	0.1	99.8	99.4	0.43
Line70	0.024	0.005	-0.024	-0.006	0.0	-1.0	100.0	100.0	0.00
3en zaya	0.034	0.009	-0.034	-0.008	0.3	0.4	100.0	99.0	1.04
westren zayah 2	0.024	0.006	-0.024	-0.006	0.1	0.1	100.0	99.7	0.29
Line72	0.059	0.014	-0.059	-0.015	0.0	-0.3	99.2	99.2	0.00
Line74	0.339	0.081	-0.339	-0.083	0.0	-1.3	99.2	99.1	0.01
Line73	0.019	0.003	-0.019	-0.008	0.0	-4.2	99.2	99.2	0.00
abo omar	0.041	0.011	-0.040	-0.010	0.8	1.2	99.2	96.6	2.54
wadi d3oqa	0.019	0.008	-0.019	-0.007	0.1	0.1	99.2	98.5	0.68
Line75	0.013	0.000	-0.013	-0.003	0.0	-3.4	99.1	99.1	0.00
Line76	0.234	0.059	-0.234	-0.061	0.0	-2.3	99.1	99.1	0.02
shcool maraqa	0.093	0.024	-0.092	-0.023	0.5	0.8	99.1	98.4	0.72
water pumb	0.013	0.003	-0.013	-0.003	0.0	0.0	99.1	99.0	0.10
Line77	0.199	0.046	-0.199	-0.048	0.0	-2.0	99.1	99.1	0.01
masria	0.035	0.015	-0.035	-0.015	0.3	0.5	99.1	97.8	1.29
Line78	0.163	0.047	-0.162	-0.052	0.0	-5.0	99.1	99.1	0.03
hafreya	0.036	0.000	-0.036	0.000	0.3	0.4	99.1	98.3	0.82
Line79	0.068	0.028	-0.068	-0.031	0.0	-3.4	99.1	99.1	0.01
beer al- basha	0.095	0.024	-0.094	-0.024	0.5	0.8	99.1	98.4	0.73
eastren beer basha	0.068	0.031	-0.067	-0.031	0.5	0.8	99.1	98.1	1.03
Line83	1.613	0.515	-1.612	-0.515	0.2	-0.2	96.5	96.5	0.01
Line84	0.267	0.105	-0.267	-0.105	0.0	-0.3	96.5	96.5	0.00
Line94	1.345	0.410	-1.345	-0.410	0.2	-0.2	96.5	96.5	0.01
Line85	0.198	0.075	-0.198	-0.077	0.0	-1.2	96.5	96.5	0.01
AUU intersiction ZA	0.070	0.030	-0.069	-0.030	0.2	0.3	96.5	96.1	0.42
Line86	0.183	0.065	-0.183	-0.072	0.1	-7.0	96.5	96.4	0.04
manasheer ZA	0.015	0.012	-0.015	-0.012	0.0	0.1	96.5	96.2	0.30
Line87	0.183	0.072	-0.183	-0.072	0.0	-0.3	96.4	96.4	0.00

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CKT / Branch		From-To Bus Flow		To-From Bus Flow		Losses		% Bus Voltage		Vd % Drop in Vmag
ID		MW	Mvar	MW	Mvar	kW	kvar	From	To	
Line88		0.183	0.076	-0.183	-0.078	0.0	-1.8	96.4	96.4	0.01
Line93		0.000	-0.004	0.000	0.000	0.0	-4.1	96.4	96.4	0.00
Line89		0.139	0.059	-0.139	-0.060	0.0	-1.0	96.4	96.4	0.00
rahwa.		0.043	0.019	-0.043	-0.018	0.5	0.8	96.4	94.8	1.65
Line90		0.096	0.041	-0.096	-0.043	0.0	-2.2	96.4	96.4	0.01
rahwa		0.043	0.018	-0.043	-0.018	0.1	0.2	96.4	96.0	0.41
Line91		0.096	0.043	-0.096	-0.044	0.0	-0.6	96.4	96.4	0.00
Line92		0.048	0.019	-0.048	-0.021	0.0	-1.7	96.4	96.4	0.00
middle of raba		0.048	0.025	-0.048	-0.024	0.3	0.4	96.4	95.6	0.79
east of raba		0.048	0.021	-0.048	-0.020	0.3	0.4	96.4	95.7	0.73
T63		0.000	0.000	0.000	0.000			96.4	96.4	0.00
Line95		1.345	0.410	-1.341	-0.415	4.1	-4.8	96.5	96.2	0.31
Line96		0.076	0.002	-0.076	-0.002	0.0	-0.3	96.2	96.2	0.00
Line97		1.265	0.413	-1.265	-0.414	0.5	-0.6	96.2	96.1	0.04
tlfeet		0.076	0.002	-0.074	0.000	1.4	2.1	96.2	94.4	1.78
Line98		0.692	0.187	-0.692	-0.188	0.1	-0.9	96.1	96.1	0.02
Line114		0.572	0.227	-0.572	-0.227	0.1	-0.5	96.1	96.1	0.01
Line99		-0.305	-0.088	0.305	0.087	0.0	-0.4	96.1	96.1	0.00
Line100		0.191	0.067	-0.191	-0.067	0.0	-0.3	96.1	96.1	0.00
dream land 1		0.044	0.006	-0.044	-0.006	0.1	0.1	96.1	95.9	0.20
dream land 2		0.070	0.015	-0.069	-0.014	0.3	0.5	96.1	95.6	0.53
Line101		0.133	0.039	-0.133	-0.039	0.0	-0.2	96.1	96.1	0.00
midecin		0.058	0.028	-0.058	-0.028	0.2	0.2	96.1	95.7	0.37
Line102		0.133	0.039	-0.133	-0.039	0.0	-0.3	96.1	96.1	0.00
west 1 AUU		0.075	0.011	-0.075	-0.011	0.3	0.5	96.1	95.6	0.53
west 2 AUU		0.058	0.028	-0.058	-0.028	0.2	0.2	96.1	95.7	0.37
Line103		0.388	0.101	-0.388	-0.105	0.2	-4.5	96.1	96.0	0.06
Line104		0.386	0.105	-0.386	-0.107	0.1	-1.7	96.0	96.0	0.02
khrrpet aisha		0.002	0.000	-0.002	0.000	0.0	0.0	96.0	96.0	0.04
Line105		0.341	0.097	-0.341	-0.100	0.1	-2.3	96.0	96.0	0.03
westren jalqnosa		0.045	0.010	-0.045	-0.009	0.3	0.5	96.0	95.2	0.85
Line106		0.058	0.015	-0.058	-0.020	0.0	-5.3	96.0	96.0	0.01
Line109		0.207	0.059	-0.207	-0.062	0.0	-2.6	96.0	96.0	0.02
middle jalqumya		0.076	0.025	-0.075	-0.025	0.4	0.6	96.0	95.3	0.66
Line108		0.058	0.020	-0.058	-0.021	0.0	-1.2	96.0	96.0	0.00
main om toot		0.058	0.021	-0.058	-0.021	0.2	0.3	96.0	95.5	0.52
Line110		0.188	0.047	-0.188	-0.049	0.0	-2.6	96.0	96.0	0.02

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	MW	Mvar	MW	Mvar	kW	kvar	From	To	
eastren al-jalquoua	0.019	0.015	-0.019	-0.015	0.1	0.1	96.0	95.4	0.61
Line111	0.163	0.043	-0.163	-0.047	0.0	-3.8	96.0	95.9	0.02
marah karas	0.025	0.006	-0.025	-0.006	0.2	0.2	96.0	95.2	0.80
Line112	0.084	0.023	-0.084	-0.024	0.0	-0.9	95.9	95.9	0.00
wastren al-maghayer	0.078	0.024	-0.078	-0.023	0.6	1.0	95.9	94.9	1.05
Line113	0.011	-0.001	-0.011	-0.004	0.0	-5.3	95.9	95.9	0.00
eastern al-maghura	0.073	0.025	-0.073	-0.024	0.6	0.9	95.9	94.9	1.02
al-mtalleh	0.011	0.004	-0.011	-0.004	0.0	0.0	95.9	95.7	0.25
Line115	0.055	0.022	-0.055	-0.022	0.0	-0.3	96.1	96.1	0.00
Line116	0.517	0.205	-0.517	-0.206	0.1	-0.7	96.1	96.1	0.01
administration college	0.055	0.022	-0.055	-0.022	0.2	0.3	96.1	95.6	0.51
Line117	0.426	0.183	-0.426	-0.183	0.0	-0.3	96.1	96.1	0.00
registration bulding	0.091	0.023	-0.091	-0.023	0.3	0.5	96.1	95.6	0.46
Line118	0.314	0.139	-0.314	-0.140	0.0	-1.2	96.1	96.1	0.01
Line123	0.112	0.044	-0.112	-0.046	0.0	-1.3	96.1	96.1	0.00
Cable7	0.140	0.000	-0.140	-0.021	0.0	-21.2	96.1	96.1	0.00
Line120	0.099	0.129	-0.099	-0.130	0.0	-0.7	96.1	96.1	0.00
princec palce	0.075	0.012	-0.075	-0.011	0.6	0.8	96.1	95.2	0.85
Cable8	0.085	0.009	-0.085	-0.018	0.0	-8.4	96.1	96.1	0.00
grand plaza DL	0.055	0.012	-0.055	-0.011	0.3	0.5	96.1	95.4	0.67
royal	0.085	0.018	-0.084	-0.017	0.3	0.4	96.1	95.7	0.41
Line121	0.056	0.011	-0.056	-0.012	0.0	-0.6	96.1	96.1	0.00
Line122	0.043	0.119	-0.043	-0.119	0.0	-0.3	96.1	96.1	0.00
dream land	0.056	0.012	-0.056	-0.011	0.2	0.3	96.1	95.7	0.42
sport stidum 1	0.021	0.059	-0.021	-0.059	0.1	0.2	96.1	95.8	0.33
sport stidum 2	0.021	0.059	-0.021	-0.059	0.1	0.2	96.1	95.8	0.33
Line124	0.030	0.003	-0.030	-0.004	0.0	-1.2	96.1	96.1	0.00
Line125	0.082	0.042	-0.082	-0.046	0.0	-3.2	96.1	96.1	0.01
tneen main	0.030	0.004	-0.030	-0.004	0.1	0.2	96.1	95.6	0.53
Line126	0.081	0.045	-0.081	-0.046	0.0	-0.7	96.1	96.1	0.00
esfalt	0.001	0.000	-0.001	0.000	0.0	0.0	96.1	96.1	0.01
Line127	0.061	0.037	-0.061	-0.037	0.0	-0.2	96.1	96.1	0.00
mass stone	0.020	0.009	-0.020	-0.009	0.0	0.0	96.1	96.0	0.12
Line244	0.001	0.000	-0.001	0.000	0.0	-0.6	96.1	96.1	0.00
mass stones	0.060	0.037	-0.059	-0.037	0.2	0.3	96.1	95.7	0.42
zakarneh 1	0.001	0.000	-0.001	0.000	0.0	0.0	96.1	96.1	0.01
Line130	0.125	0.042	-0.125	-0.043	0.0	-0.6	96.4	96.4	0.00

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	MW	Mvar	MW	Mvar	kW	kvar	From	To	
Line131	3.071	3.083	-3.069	-3.082	1.2	0.4	96.4	96.4	0.03
al-masa3eed	0.125	0.043	-0.123	-0.040	1.7	2.5	96.4	94.7	1.73
Line132	3.049	3.079	-3.046	-3.078	3.0	1.0	96.4	96.3	0.07
anabosa	0.021	0.003	-0.021	-0.003	0.0	0.1	96.4	96.1	0.23
Line133	2.872	3.019	-2.871	-3.018	1.0	0.3	96.3	96.3	0.02
abu omar	0.174	0.060	-0.172	-0.056	2.0	3.0	96.3	94.8	1.51
Line134	2.871	3.018	-2.864	-3.016	6.9	2.1	96.3	96.1	0.17
Line161	2.679	2.977	-2.678	-2.977	1.2	0.4	96.1	96.1	0.03
abo shehab	0.185	0.039	-0.183	-0.037	1.4	2.0	96.1	95.2	0.89
Line136	2.678	2.977	-2.675	-2.976	3.3	0.9	96.1	96.0	0.08
Line137	0.130	0.065	-0.130	-0.065	0.0	-0.3	96.0	96.0	0.00
Line138	2.544	2.911	-2.542	-2.910	2.2	0.6	96.0	95.9	0.06
tubas weel	0.130	0.065	-0.128	-0.062	2.1	3.1	96.0	93.9	2.10
Line139	2.542	2.910	-2.539	-2.909	3.2	0.9	95.9	95.9	0.08
Line162	1.058	0.312	-1.058	-0.313	0.3	-0.6	95.9	95.8	0.02
Line175	1.448	2.586	-1.444	-2.586	4.6	0.6	95.9	95.7	0.14
amnawaqa2	0.032	0.011	-0.032	-0.010	0.2	0.3	95.9	95.2	0.69
Line141	0.038	0.004	-0.038	-0.008	0.0	-3.3	95.8	95.8	0.00
Line145	1.020	0.309	-1.020	-0.309	0.2	-0.5	95.8	95.8	0.02
Line142	0.038	0.008	-0.038	-0.010	0.0	-2.6	95.8	95.8	0.00
Line143	0.034	0.009	-0.034	-0.010	0.0	-1.1	95.8	95.8	0.00
khalt el looz	0.004	0.001	-0.004	-0.001	0.0	0.0	95.8	95.7	0.08
Line144	0.034	0.010	-0.034	-0.011	0.0	-0.9	95.8	95.8	0.00
shereen	0.034	0.011	-0.034	-0.011	0.2	0.3	95.8	95.1	0.73
Line146	0.953	0.276	-0.953	-0.278	0.5	-1.5	95.8	95.8	0.06
mo2ayad fridges	0.067	0.033	-0.066	-0.032	0.4	0.6	95.8	95.1	0.74
Line147	0.034	0.007	-0.034	-0.009	0.0	-1.2	95.8	95.8	0.00
Line148	0.919	0.270	-0.918	-0.274	1.1	-3.3	95.8	95.6	0.12
mohafada	0.034	0.009	-0.034	-0.008	0.1	0.2	95.8	95.3	0.43
Line149	0.870	0.260	-0.869	-0.262	0.7	-2.3	95.6	95.6	0.08
weel	0.048	0.014	-0.048	-0.014	0.1	0.1	95.6	95.4	0.25
Line150	0.095	0.032	-0.095	-0.032	0.0	-0.3	95.6	95.6	0.00
Line163	0.774	0.230	-0.774	-0.230	0.1	-0.3	95.6	95.5	0.01
first of the town	0.095	0.032	-0.094	-0.031	1.0	1.5	95.6	94.2	1.33
Line152	0.719	0.218	-0.719	-0.219	0.2	-0.9	95.5	95.5	0.02
police	0.055	0.012	-0.055	-0.011	0.3	0.5	95.5	94.9	0.67
Line153	0.075	0.022	-0.075	-0.023	0.0	-0.6	95.5	95.5	0.00

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	MW	Mvar	MW	Mvar	kW	kvar	From	To	
Line154	0.047	0.016	-0.047	-0.016	0.0	-0.6	95.5	95.5	0.00
Line155	0.596	0.182	-0.596	-0.183	0.2	-1.7	95.5	95.5	0.04
burhan	0.075	0.023	-0.074	-0.022	0.6	0.9	95.5	94.5	1.01
al-battman	0.047	0.016	-0.047	-0.015	0.6	0.9	95.5	93.9	1.65
Line156	0.397	0.132	-0.397	-0.134	0.1	-1.3	95.5	95.5	0.02
Line164	0.123	0.031	-0.123	-0.031	0.0	-0.1	95.5	95.5	0.00
national security	0.077	0.020	-0.076	-0.019	1.0	1.4	95.5	93.9	1.55
Line157	0.255	0.085	-0.255	-0.085	0.0	-0.3	95.5	95.5	0.00
alrfaid	0.141	0.049	-0.139	-0.046	2.2	3.3	95.5	93.5	1.98
Line158	0.217	0.075	-0.217	-0.076	0.0	-1.2	95.5	95.5	0.01
Line160	0.038	0.010	-0.038	-0.011	0.0	-1.4	95.5	95.5	0.00
Line159	0.147	0.055	-0.147	-0.056	0.0	-1.5	95.5	95.4	0.01
alBATTAH	0.070	0.021	-0.069	-0.020	0.8	1.2	95.5	94.0	1.48
ALMISHMAS	0.147	0.056	-0.144	-0.052	2.4	3.6	95.4	93.3	2.14
alrass	0.038	0.011	-0.038	-0.011	0.2	0.2	95.5	95.0	0.51
Line165	0.123	0.031	-0.123	-0.033	0.0	-2.3	95.5	95.5	0.01
Line167	0.107	0.028	-0.107	-0.031	0.0	-3.8	95.5	95.5	0.01
RAS AL-MATTALEH	0.016	0.005	-0.016	-0.005	0.0	0.1	95.5	95.1	0.35
Line168	0.016	-0.003	-0.016	0.002	0.0	-1.6	95.5	95.5	0.00
Line171	0.091	0.035	-0.091	-0.035	0.0	-0.8	95.5	95.5	0.00
Line169	0.008	-0.005	-0.008	-0.002	0.0	-6.7	95.5	95.5	0.00
ALJALHOOM	0.008	0.003	-0.008	-0.003	0.0	0.0	95.5	95.3	0.18
ATOOF	0.008	0.002	-0.008	-0.002	0.0	0.0	95.5	95.3	0.16
Line172	0.080	0.032	-0.080	-0.032	0.0	-0.3	95.5	95.5	0.00
Line173	0.011	0.004	-0.011	-0.006	0.0	-2.3	95.5	95.5	0.00
MAWAFAQ FAKHRY	0.080	0.032	-0.079	-0.031	0.3	0.4	95.5	95.0	0.47
HAKIM	0.011	0.006	-0.011	-0.006	0.0	0.0	95.5	95.4	0.07
Line176	1.444	2.586	-1.437	-2.585	6.2	0.8	95.7	95.5	0.18
Line177	0.063	0.030	-0.063	-0.031	0.0	-0.6	95.5	95.5	0.00
Line178	1.374	2.554	-1.373	-2.554	1.5	0.2	95.5	95.5	0.04
pickle factory	0.063	0.031	-0.063	-0.030	0.3	0.4	95.5	94.9	0.63
Line179	0.003	0.001	-0.003	-0.002	0.0	-0.6	95.5	95.5	0.00
Line180	1.370	2.553	-1.368	-2.553	2.2	0.3	95.5	95.4	0.07
keshda main	0.003	0.002	-0.003	-0.002	0.0	0.0	95.5	95.2	0.25
Line181	-2.080	1.203	2.081	-1.203	1.0	-0.1	95.4	95.4	0.02
Line182	3.447	1.350	-3.443	-1.349	4.5	1.2	95.4	95.3	0.13
Line192	-2.081	1.203	2.082	-1.203	1.0	-0.1	95.4	95.5	0.02

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	MW	Mvar	MW	Mvar	kW	kvar	From	To	
Line183	3.343	1.284	-3.339	-1.283	3.8	1.0	95.3	95.2	0.11
dewan	0.100	0.065	-0.099	-0.064	0.9	1.3	95.3	94.1	1.15
Line184	1.001	0.518	-1.001	-0.518	0.2	-0.3	95.2	95.2	0.02
Line200	2.338	0.765	-2.336	-0.765	1.4	0.0	95.2	95.1	0.06
Line185	0.746	0.393	-0.745	-0.394	0.3	-1.2	95.2	95.1	0.04
Line196	0.256	0.125	-0.256	-0.125	0.0	-0.3	95.2	95.2	0.00
Line186	0.745	0.394	-0.745	-0.395	0.1	-0.5	95.1	95.1	0.02
Line187	0.675	0.365	-0.675	-0.366	0.1	-0.6	95.1	95.1	0.02
Line195	0.070	0.029	-0.070	-0.030	0.0	-0.9	95.1	95.1	0.00
Line188	0.272	0.162	-0.272	-0.165	0.1	-3.0	95.1	95.1	0.03
Line189	0.135	0.070	-0.135	-0.070	0.0	-0.3	95.1	95.1	0.00
khalet al qaser 1	0.202	0.112	-0.198	-0.107	3.3	4.9	95.1	92.9	2.15
khalet al qaser 2	0.067	0.022	-0.067	-0.022	0.2	0.3	95.1	94.7	0.37
mohammad al basher	0.272	0.165	-0.268	-0.159	3.9	5.9	95.1	93.1	1.92
Line190	0.135	0.070	-0.135	-0.072	0.0	-2.2	95.1	95.1	0.01
Line191	0.030	0.015	-0.030	-0.019	0.0	-3.3	95.1	95.1	0.00
faysel well	0.105	0.057	-0.104	-0.056	0.6	0.8	95.1	94.4	0.71
huseen al araj	0.030	0.019	-0.030	-0.018	0.1	0.2	95.1	94.5	0.54
Cable44	0.055	-0.018	-0.054	0.018	0.8	0.1	115.2	113.7	1.50
Cable45	0.487	-0.164	-0.379	0.208	107.9	44.2	113.7	95.7	18.04
Cable48	-0.054	0.018	0.055	-0.018	0.8	0.1	113.7	115.2	1.50
Cable49	-0.054	0.018	0.055	-0.018	0.8	0.1	113.7	115.2	1.50
Cable50	-0.054	0.018	0.055	-0.018	0.8	0.1	113.7	115.2	1.50
Cable51	-0.054	0.018	0.055	-0.018	0.8	0.1	113.7	115.2	1.50
Cable52	-0.054	0.018	0.055	-0.018	0.8	0.1	113.7	115.2	1.50
Cable53	-0.054	0.018	0.055	-0.018	0.8	0.1	113.7	115.2	1.50
Cable54	-0.054	0.018	0.055	-0.018	0.8	0.1	113.7	115.2	1.50
Cable126	-0.054	0.018	0.055	-0.018	0.8	0.1	113.7	115.2	1.50
T1	0.379	-0.208	-0.372	0.219	7.2	10.8	95.7	95.5	0.20
T2	-0.372	0.219	0.379	-0.208	7.2	10.8	95.5	95.7	0.21
T3	-0.336	0.187	0.341	-0.179	5.7	8.6	95.5	95.7	0.24
T6	-0.228	0.112	0.232	-0.106	3.9	5.9	95.5	95.9	0.38
T7	-0.403	0.248	0.411	-0.235	8.6	12.9	95.5	95.6	0.17
T8	-0.372	0.219	0.379	-0.208	7.2	10.8	95.5	95.7	0.20
Cable66	0.049	-0.016	-0.049	0.016	0.7	0.1	115.1	113.8	1.35
Cable86	-0.049	0.016	0.049	-0.016	0.7	0.1	113.8	115.1	1.35
Cable87	-0.049	0.016	0.049	-0.016	0.7	0.1	113.8	115.1	1.35

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CKT / Branch ID	From-To Bus Flow		To-From Bus Flow		Losses		% Bus Voltage		Vd % Drop in Vmag
	MW	Mvar	MW	Mvar	kW	kvar	From	To	
Cable88	-0.049	0.016	0.049	-0.016	0.7	0.1	113.8	115.1	1.35
Cable89	-0.049	0.016	0.049	-0.016	0.7	0.1	113.8	115.1	1.35
Cable90	-0.049	0.016	0.049	-0.016	0.7	0.1	113.8	115.1	1.35
Cable91	-0.049	0.016	0.049	-0.016	0.7	0.1	113.8	115.1	1.35
Cable92	-0.049	0.016	0.049	-0.016	0.7	0.1	113.8	115.1	1.35
Cable93	-0.049	0.016	0.049	-0.016	0.7	0.1	113.8	115.1	1.35
Cable120	0.487	-0.163	-0.379	0.208	108.2	44.3	113.8	95.7	18.07
Cable128	-0.049	0.016	0.049	-0.016	0.7	0.1	113.8	115.1	1.35
Cable67	0.049	-0.016	-0.049	0.016	0.7	0.1	113.3	111.9	1.37
Cable69	-0.054	0.018	0.055	-0.018	0.9	0.1	111.9	113.5	1.52
Cable70	-0.054	0.018	0.055	-0.018	0.9	0.1	111.9	113.5	1.52
Cable71	-0.054	0.018	0.055	-0.018	0.9	0.1	111.9	113.5	1.52
Cable72	-0.054	0.018	0.055	-0.018	0.9	0.1	111.9	113.5	1.52
Cable73	-0.054	0.018	0.055	-0.018	0.9	0.1	111.9	113.5	1.52
Cable118	-0.054	0.018	0.055	-0.018	0.9	0.1	111.9	113.5	1.52
Cable121	0.427	-0.144	-0.341	0.179	85.8	35.1	111.9	95.7	16.23
Cable130	-0.054	0.018	0.055	-0.018	0.9	0.1	111.9	113.5	1.52
Cable79	0.055	-0.018	-0.054	0.018	0.9	0.1	108.5	106.9	1.59
Cable80	0.055	-0.018	-0.054	0.018	0.9	0.1	108.5	106.9	1.59
Cable81	0.055	-0.018	-0.054	0.018	0.9	0.1	108.5	106.9	1.59
Cable82	0.055	-0.018	-0.054	0.018	0.9	0.1	108.5	106.9	1.59
Cable83	0.055	-0.018	-0.054	0.018	0.9	0.1	108.5	106.9	1.59
Cable122	0.270	-0.091	-0.232	0.106	37.6	15.4	106.9	95.9	11.01
Cable123	-0.411	0.235	0.541	-0.182	129.8	53.2	95.6	115.3	19.62
Cable124	-0.379	0.208	0.487	-0.164	107.9	44.2	95.7	113.7	18.04
mawfak al-fakhry	0.070	0.030	-0.070	-0.030	0.2	0.3	95.1	94.7	0.43
Line197	0.184	0.083	-0.184	-0.085	0.0	-1.8	95.2	95.2	0.01
agricultural project	0.072	0.043	-0.071	-0.042	0.3	0.4	95.2	94.7	0.50
Line198	0.096	0.060	-0.096	-0.060	0.0	-0.5	95.2	95.1	0.00
Line199	0.067	0.019	-0.067	-0.022	0.0	-3.3	95.2	95.1	0.01
kazeyt samara	0.021	0.006	-0.021	-0.006	0.0	0.0	95.2	95.0	0.18
thiab	0.096	0.060	-0.096	-0.059	0.5	0.8	95.1	94.5	0.69
al-ashqar stone cutter	0.067	0.022	-0.067	-0.022	0.2	0.3	95.1	94.8	0.37
Line201	0.116	0.074	-0.116	-0.075	0.0	-1.1	95.1	95.1	0.01
Line203	2.220	0.692	-2.219	-0.692	0.6	-0.1	95.1	95.1	0.03
Line202	0.116	0.075	-0.116	-0.076	0.0	-1.0	95.1	95.1	0.00
abo hameed	0.116	0.076	-0.116	-0.075	0.8	1.1	95.1	94.3	0.85

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	MW	Mvar	MW	Mvar	kW	kvar	From	To	
Line204	0.035	0.019	-0.035	-0.020	0.0	-1.0	95.1	95.1	0.00
Line205	2.185	0.673	-2.182	-0.673	2.1	-0.2	95.1	95.0	0.10
al-kharaz	0.035	0.020	-0.035	-0.020	0.2	0.4	95.1	94.2	0.95
Line206	1.123	0.402	-1.123	-0.403	0.5	-0.9	95.0	95.0	0.04
Line231	1.059	0.271	-1.059	-0.271	0.2	-0.3	95.0	95.0	0.02
Line207	0.217	0.086	-0.217	-0.086	0.0	-0.6	95.0	94.9	0.01
Line209	0.905	0.318	-0.905	-0.319	0.5	-1.6	95.0	94.9	0.06
Line208	0.058	0.017	-0.058	-0.019	0.0	-2.1	94.9	94.9	0.00
refat	0.080	0.034	-0.079	-0.034	0.5	0.7	94.9	94.2	0.77
refat 2	0.080	0.034	-0.079	-0.034	0.5	0.7	94.9	94.2	0.77
safeena	0.058	0.019	-0.058	-0.019	0.2	0.3	94.9	94.4	0.51
Line210	0.757	0.251	-0.757	-0.251	0.0	-0.2	94.9	94.9	0.01
Line225	0.068	0.028	-0.068	-0.030	0.0	-1.2	94.9	94.9	0.00
Line226	0.080	0.040	-0.080	-0.044	0.0	-3.6	94.9	94.9	0.01
Line215	0.552	0.192	-0.552	-0.194	0.2	-1.9	94.9	94.8	0.04
Line243	0.205	0.059	-0.205	-0.060	0.0	-0.5	94.9	94.9	0.00
Line212	0.169	0.046	-0.169	-0.048	0.0	-1.4	94.9	94.9	0.01
al-hesba	0.036	0.013	-0.036	-0.013	0.1	0.2	94.9	94.4	0.52
Line213	0.069	0.018	-0.069	-0.019	0.0	-1.2	94.9	94.9	0.00
kazeya	0.100	0.030	-0.099	-0.029	0.7	1.0	94.9	94.0	0.85
Line214	0.039	0.008	-0.039	-0.010	0.0	-1.8	94.9	94.9	0.00
school	0.030	0.011	-0.030	-0.011	0.1	0.1	94.9	94.6	0.27
abo shehadeh	0.039	0.010	-0.039	-0.010	0.2	0.2	94.9	94.4	0.50
Line216	0.396	0.131	-0.396	-0.133	0.1	-2.2	94.8	94.8	0.03
al bassateen	0.156	0.063	-0.155	-0.061	1.1	1.7	94.8	93.9	0.93
Line217	0.305	0.105	-0.305	-0.108	0.1	-2.7	94.8	94.8	0.03
abo khadeer	0.091	0.028	-0.090	-0.026	0.9	1.3	94.8	93.6	1.23
Line218	0.269	0.099	-0.269	-0.099	0.0	-0.2	94.8	94.8	0.00
abo tareq	0.036	0.009	-0.036	-0.009	0.1	0.1	94.8	94.6	0.18
Line219	0.269	0.099	-0.269	-0.102	0.1	-2.9	94.8	94.8	0.03
Line220	0.072	0.029	-0.072	-0.029	0.0	-0.3	94.8	94.8	0.00
Line221	0.076	0.018	-0.076	-0.020	0.0	-1.1	94.8	94.8	0.00
Line222	0.121	0.055	-0.121	-0.055	0.0	-0.4	94.8	94.8	0.00
mamdooh	0.072	0.029	-0.072	-0.028	0.4	0.6	94.8	94.1	0.67
farah	0.076	0.020	-0.076	-0.019	0.4	0.6	94.8	94.1	0.62
Line223	0.100	0.048	-0.100	-0.049	0.0	-0.6	94.8	94.8	0.00
Line224	0.021	0.007	-0.021	-0.008	0.0	-1.4	94.8	94.8	0.00

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	MW	Mvar	MW	Mvar	kW	kvar	From	To	
sameer motlaq	0.100	0.049	-0.099	-0.048	0.8	1.1	94.8	93.7	1.01
essawi	0.021	0.008	-0.021	-0.008	0.1	0.1	94.8	94.4	0.31
al hafria	0.068	0.030	-0.068	-0.029	0.5	0.8	94.9	93.8	1.05
Line227	0.011	0.007	-0.011	-0.007	0.0	-0.3	94.9	94.9	0.00
Line228	0.069	0.037	-0.069	-0.038	0.0	-1.2	94.9	94.9	0.00
yaseed east	0.011	0.007	-0.011	-0.007	0.0	0.0	94.9	94.7	0.20
Line229	0.008	0.003	-0.008	-0.003	0.0	-0.6	94.9	94.9	0.00
Line230	0.061	0.036	-0.061	-0.038	0.0	-2.5	94.9	94.9	0.01
kasaret abo asaad	0.061	0.038	-0.061	-0.038	0.3	0.5	94.9	94.2	0.69
yaseed west	0.008	0.003	-0.008	-0.003	0.0	0.0	94.9	94.8	0.12
Line232	0.248	0.070	-0.248	-0.070	0.0	-0.2	95.0	95.0	0.00
Line233	0.154	0.031	-0.154	-0.032	0.0	-0.7	95.0	95.0	0.00
Line236	0.656	0.169	-0.656	-0.170	0.1	-0.6	95.0	95.0	0.01
weastern	0.248	0.070	-0.242	-0.061	6.6	9.8	95.0	91.7	3.27
Line234	0.018	0.002	-0.018	-0.003	0.0	-0.3	95.0	95.0	0.00
Line235	0.136	0.030	-0.136	-0.030	0.0	-0.2	95.0	95.0	0.00
school.	0.136	0.030	-0.134	-0.027	1.9	2.9	95.0	93.3	1.68
tubas well	0.018	0.003	-0.018	-0.003	0.0	0.0	95.0	94.9	0.13
Line237	0.568	0.151	-0.568	-0.152	0.1	-0.9	95.0	95.0	0.02
al-shareef	0.088	0.018	-0.088	-0.018	0.3	0.5	95.0	94.5	0.43
Line238	0.074	0.015	-0.074	-0.015	0.0	-0.5	95.0	95.0	0.00
Line239	0.474	0.129	-0.474	-0.130	0.0	-0.5	95.0	94.9	0.01
Line242	0.012	0.002	-0.012	-0.003	0.0	-0.6	95.0	95.0	0.00
malhameh	0.008	0.006	-0.008	-0.006	0.0	0.0	95.0	94.9	0.06
al-3een	0.074	0.015	-0.074	-0.015	0.2	0.3	95.0	94.6	0.36
Line240	0.391	0.074	-0.391	-0.074	0.0	-0.1	94.9	94.9	0.00
well	0.083	0.056	-0.082	-0.055	0.6	0.9	94.9	94.0	0.97
Line241	0.338	0.058	-0.338	-0.058	0.0	-0.2	94.9	94.9	0.00
stadium	0.053	0.016	-0.053	-0.015	0.3	0.5	94.9	94.2	0.71
old station	0.338	0.058	-0.331	-0.047	7.2	10.9	94.9	92.5	2.45
sameeh abo khezaran	0.012	0.003	-0.012	-0.003	0.0	0.0	95.0	94.9	0.10
Cable95	0.055	-0.018	-0.054	0.018	0.8	0.1	116.7	115.3	1.48
Cable98	0.055	-0.018	-0.054	0.018	0.8	0.1	116.7	115.3	1.48
Cable99	0.055	-0.018	-0.054	0.018	0.8	0.1	116.7	115.3	1.48
Cable100	0.055	-0.018	-0.054	0.018	0.8	0.1	116.7	115.3	1.48
Cable101	0.055	-0.018	-0.054	0.018	0.8	0.1	116.7	115.3	1.48
Cable102	0.055	-0.018	-0.054	0.018	0.8	0.1	116.7	115.3	1.48

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	MW	Mvar	MW	Mvar	kW	kvar	From	To	
Cable103	0.055	-0.018	-0.054	0.018	0.8	0.1	116.7	115.3	1.48
Cable104	0.055	-0.018	-0.054	0.018	0.8	0.1	116.7	115.3	1.48
Cable105	0.055	-0.018	-0.054	0.018	0.8	0.1	116.7	115.3	1.48
Cable106	0.055	-0.018	-0.054	0.018	0.8	0.1	116.7	115.3	1.48
Cable107	0.055	-0.018	-0.054	0.018	0.8	0.1	115.2	113.7	1.50
Cable108	0.055	-0.018	-0.054	0.018	0.8	0.1	115.2	113.7	1.50
Cable109	0.055	-0.018	-0.054	0.018	0.8	0.1	115.2	113.7	1.50
Cable110	0.055	-0.018	-0.054	0.018	0.8	0.1	115.2	113.7	1.50
Cable111	0.055	-0.018	-0.054	0.018	0.8	0.1	115.2	113.7	1.50
Cable112	0.055	-0.018	-0.054	0.018	0.8	0.1	115.2	113.7	1.50
Cable113	0.055	-0.018	-0.054	0.018	0.8	0.1	115.2	113.7	1.50
Cable114	0.055	-0.018	-0.054	0.018	0.8	0.1	115.2	113.7	1.50
Cable115	0.055	-0.018	-0.054	0.018	0.8	0.1	115.2	113.7	1.50
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Alert Summary Report

% Alert Settings

	<u>Critical</u>	<u>Marginal</u>
<u>Loading</u>		
Bus	100.0	95.0
Cable	100.0	95.0
Reactor	100.0	95.0
Line	100.0	95.0
Transformer	100.0	95.0
Panel	100.0	95.0
Protective Device	100.0	95.0
Generator	100.0	95.0
Inverter/Charger	100.0	95.0
<u>Bus Voltage</u>		
OverVoltage	105.0	102.0
UnderVoltage	95.0	98.0
<u>Generator Excitation</u>		
OverExcited (Q Max.)	100.0	95.0
UnderExcited (Q Min.)	100.0	

Critical Report

Device ID	Type	Condition	Rating/Limit	Unit	Operating	% Operating	Phase Type
abo omar	Transformer	Overload	0.031	MVA	0.042	134.0	3-Phase
ALMISHMAS	Transformer	Overload	0.157	MVA	0.157	100.1	3-Phase
AUU intersiction ZA	Transformer	Overload	0.040	MVA	0.076	191.2	3-Phase
Bus238	Bus	Under Voltage	0.400	kV	0.379	94.7	3-Phase
Bus239	Bus	Under Voltage	0.400	kV	0.379	94.8	3-Phase
Bus246	Bus	Under Voltage	0.400	kV	0.379	94.9	3-Phase
Bus247	Bus	Under Voltage	0.400	kV	0.380	94.9	3-Phase
Bus249	Bus	Under Voltage	0.400	kV	0.378	94.6	3-Phase
Bus251	Bus	Under Voltage	0.400	kV	0.379	94.7	3-Phase
Bus302	Bus	Under Voltage	0.400	kV	0.378	94.4	3-Phase
Bus305	Bus	Under Voltage	0.400	kV	0.379	94.8	3-Phase
Bus321	Bus	Under Voltage	0.400	kV	0.380	94.9	3-Phase
Bus323	Bus	Under Voltage	0.400	kV	0.380	94.9	3-Phase
Bus332	Bus	Under Voltage	0.400	kV	0.376	93.9	3-Phase
Bus339	Bus	Under Voltage	0.400	kV	0.377	94.2	3-Phase

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Device ID	Type	Condition	Rating/Limit	Unit	Operating	% Operating	Phase Type
Bus340	Bus	Under Voltage	0.400	kV	0.379	94.9	3-Phase
Bus341	Bus	Under Voltage	0.400	kV	0.378	94.5	3-Phase
Bus342	Bus	Under Voltage	0.400	kV	0.375	93.9	3-Phase
Bus343	Bus	Under Voltage	0.400	kV	0.376	93.9	3-Phase
Bus344	Bus	Under Voltage	0.400	kV	0.374	93.5	3-Phase
Bus345	Bus	Under Voltage	0.400	kV	0.376	94.0	3-Phase
Bus346	Bus	Under Voltage	0.400	kV	0.380	95.0	3-Phase
Bus347	Bus	Under Voltage	0.400	kV	0.373	93.3	3-Phase
Bus351	Bus	Under Voltage	0.400	kV	0.380	95.0	3-Phase
Bus357	Bus	Under Voltage	0.400	kV	0.380	94.9	3-Phase
Bus364	Bus	Under Voltage	0.400	kV	0.377	94.1	3-Phase
Bus372	Bus	Under Voltage	0.400	kV	0.373	93.1	3-Phase
Bus375	Bus	Under Voltage	0.400	kV	0.378	94.4	3-Phase
Bus377	Bus	Under Voltage	0.400	kV	0.378	94.5	3-Phase
Bus378	Bus	Under Voltage	0.400	kV	0.372	92.9	3-Phase
Bus379	Bus	Under Voltage	0.400	kV	0.379	94.7	3-Phase
Bus383	Bus	Over Voltage	0.400	kV	0.461	115.2	3-Phase
Bus384	Bus	Over Voltage	0.400	kV	0.455	113.7	3-Phase
Bus388	Bus	Over Voltage	0.400	kV	0.461	115.2	3-Phase
Bus389	Bus	Over Voltage	0.400	kV	0.461	115.2	3-Phase
Bus390	Bus	Over Voltage	0.400	kV	0.461	115.2	3-Phase
Bus391	Bus	Over Voltage	0.400	kV	0.461	115.2	3-Phase
Bus392	Bus	Over Voltage	0.400	kV	0.461	115.2	3-Phase
Bus393	Bus	Over Voltage	0.400	kV	0.461	115.2	3-Phase
Bus394	Bus	Over Voltage	0.400	kV	0.461	115.2	3-Phase
Bus408	Bus	Over Voltage	0.400	kV	0.460	115.1	3-Phase
Bus409	Bus	Over Voltage	0.400	kV	0.455	113.8	3-Phase
Bus410	Bus	Over Voltage	0.400	kV	0.453	113.3	3-Phase
Bus411	Bus	Over Voltage	0.400	kV	0.448	111.9	3-Phase
Bus413	Bus	Over Voltage	0.400	kV	0.454	113.5	3-Phase
Bus414	Bus	Over Voltage	0.400	kV	0.454	113.5	3-Phase
Bus415	Bus	Over Voltage	0.400	kV	0.454	113.5	3-Phase
Bus416	Bus	Over Voltage	0.400	kV	0.454	113.5	3-Phase
Bus417	Bus	Over Voltage	0.400	kV	0.454	113.5	3-Phase
Bus423	Bus	Over Voltage	0.400	kV	0.434	108.5	3-Phase
Bus424	Bus	Over Voltage	0.400	kV	0.434	108.5	3-Phase

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Device ID	Type	Condition	Rating/Limit	Unit	Operating	% Operating	Phase Type
Bus425	Bus	Over Voltage	0.400	kV	0.434	108.5	3-Phase
Bus426	Bus	Over Voltage	0.400	kV	0.434	108.5	3-Phase
Bus427	Bus	Over Voltage	0.400	kV	0.434	108.5	3-Phase
Bus428	Bus	Over Voltage	0.400	kV	0.427	106.9	3-Phase
Bus435	Bus	Under Voltage	0.400	kV	0.379	94.7	3-Phase
Bus437	Bus	Under Voltage	0.400	kV	0.379	94.7	3-Phase
Bus440	Bus	Under Voltage	0.400	kV	0.378	94.5	3-Phase
Bus441	Bus	Under Voltage	0.400	kV	0.380	95.0	3-Phase
Bus443	Bus	Under Voltage	0.400	kV	0.379	94.8	3-Phase
Bus449	Bus	Under Voltage	0.400	kV	0.377	94.3	3-Phase
Bus452	Bus	Under Voltage	0.400	kV	0.377	94.2	3-Phase
Bus453	Bus	Under Voltage	33.000	kV	31.350	95.0	3-Phase
Bus454	Bus	Under Voltage	33.000	kV	31.335	95.0	3-Phase
Bus455	Bus	Under Voltage	33.000	kV	31.333	94.9	3-Phase
Bus456	Bus	Under Voltage	0.400	kV	0.377	94.2	3-Phase
Bus457	Bus	Under Voltage	33.000	kV	31.332	94.9	3-Phase
Bus458	Bus	Under Voltage	0.400	kV	0.377	94.2	3-Phase
Bus459	Bus	Under Voltage	0.400	kV	0.378	94.4	3-Phase
Bus460	Bus	Under Voltage	33.000	kV	31.315	94.9	3-Phase
Bus461	Bus	Under Voltage	33.000	kV	31.313	94.9	3-Phase
Bus462	Bus	Under Voltage	33.000	kV	31.312	94.9	3-Phase
Bus463	Bus	Under Voltage	0.400	kV	0.377	94.4	3-Phase
Bus464	Bus	Under Voltage	33.000	kV	31.309	94.9	3-Phase
Bus465	Bus	Under Voltage	0.400	kV	0.376	94.0	3-Phase
Bus466	Bus	Under Voltage	33.000	kV	31.308	94.9	3-Phase
Bus467	Bus	Under Voltage	0.400	kV	0.378	94.6	3-Phase
Bus468	Bus	Under Voltage	33.000	kV	31.308	94.9	3-Phase
Bus469	Bus	Under Voltage	0.400	kV	0.377	94.4	3-Phase
Bus470	Bus	Under Voltage	33.000	kV	31.300	94.8	3-Phase
Bus471	Bus	Under Voltage	0.400	kV	0.376	93.9	3-Phase
Bus472	Bus	Under Voltage	33.000	kV	31.289	94.8	3-Phase
Bus473	Bus	Under Voltage	0.400	kV	0.374	93.6	3-Phase
Bus474	Bus	Under Voltage	33.000	kV	31.279	94.8	3-Phase
Bus475	Bus	Under Voltage	0.400	kV	0.378	94.6	3-Phase
Bus476	Bus	Under Voltage	33.000	kV	31.279	94.8	3-Phase
Bus477	Bus	Under Voltage	33.000	kV	31.279	94.8	3-Phase

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Bus478	Bus	Under Voltage	33.000	kV	31.269	94.8	3-Phase
Bus479	Bus	Under Voltage	33.000	kV	31.269	94.8	3-Phase
Bus480	Bus	Under Voltage	0.400	kV	0.376	94.1	3-Phase
Bus481	Bus	Under Voltage	33.000	kV	31.268	94.8	3-Phase
Bus482	Bus	Under Voltage	0.400	kV	0.377	94.1	3-Phase
Bus485	Bus	Under Voltage	33.000	kV	31.269	94.8	3-Phase
Bus486	Bus	Under Voltage	33.000	kV	31.268	94.8	3-Phase
Bus487	Bus	Under Voltage	0.400	kV	0.375	93.7	3-Phase
Bus488	Bus	Under Voltage	33.000	kV	31.268	94.8	3-Phase
Bus489	Bus	Under Voltage	0.400	kV	0.378	94.4	3-Phase
Bus490	Bus	Under Voltage	33.000	kV	31.314	94.9	3-Phase
Bus491	Bus	Under Voltage	0.400	kV	0.375	93.8	3-Phase
Bus492	Bus	Under Voltage	33.000	kV	31.312	94.9	3-Phase
Bus493	Bus	Under Voltage	33.000	kV	31.312	94.9	3-Phase
Bus494	Bus	Under Voltage	0.400	kV	0.379	94.7	3-Phase
Bus495	Bus	Under Voltage	33.000	kV	31.311	94.9	3-Phase
Bus496	Bus	Under Voltage	33.000	kV	31.309	94.9	3-Phase
Bus497	Bus	Under Voltage	33.000	kV	31.310	94.9	3-Phase
Bus498	Bus	Under Voltage	0.400	kV	0.377	94.2	3-Phase
Bus499	Bus	Under Voltage	0.400	kV	0.379	94.8	3-Phase
Bus500	Bus	Under Voltage	33.000	kV	31.345	95.0	3-Phase
Bus501	Bus	Under Voltage	33.000	kV	31.344	95.0	3-Phase
Bus502	Bus	Under Voltage	0.400	kV	0.367	91.7	3-Phase
Bus503	Bus	Under Voltage	33.000	kV	31.344	95.0	3-Phase
Bus504	Bus	Under Voltage	33.000	kV	31.343	95.0	3-Phase
Bus505	Bus	Under Voltage	33.000	kV	31.344	95.0	3-Phase
Bus506	Bus	Under Voltage	0.400	kV	0.373	93.3	3-Phase
Bus507	Bus	Under Voltage	0.400	kV	0.379	94.9	3-Phase
Bus508	Bus	Under Voltage	33.000	kV	31.340	95.0	3-Phase
Bus509	Bus	Under Voltage	0.400	kV	0.378	94.5	3-Phase
Bus510	Bus	Under Voltage	33.000	kV	31.334	95.0	3-Phase
Bus511	Bus	Under Voltage	0.400	kV	0.380	94.9	3-Phase
Bus512	Bus	Under Voltage	33.000	kV	31.334	95.0	3-Phase
Bus513	Bus	Under Voltage	0.400	kV	0.378	94.6	3-Phase
Bus514	Bus	Under Voltage	33.000	kV	31.331	94.9	3-Phase
Bus515	Bus	Under Voltage	0.400	kV	0.376	94.0	3-Phase

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Bus516	Bus	Under Voltage	33.000	kV	31.331	94.9	3-Phase
Bus517	Bus	Under Voltage	0.400	kV	0.377	94.2	3-Phase
Bus518	Bus	Under Voltage	33.000	kV	31.330	94.9	3-Phase
Bus519	Bus	Under Voltage	0.400	kV	0.370	92.5	3-Phase
Bus520	Bus	Under Voltage	33.000	kV	31.334	95.0	3-Phase
Bus521	Bus	Under Voltage	0.400	kV	0.379	94.9	3-Phase
Bus524	Bus	Over Voltage	0.400	kV	0.460	115.1	3-Phase
Bus525	Bus	Over Voltage	0.400	kV	0.460	115.1	3-Phase
Bus526	Bus	Over Voltage	0.400	kV	0.460	115.1	3-Phase
Bus527	Bus	Over Voltage	0.400	kV	0.460	115.1	3-Phase
Bus528	Bus	Over Voltage	0.400	kV	0.460	115.1	3-Phase
Bus529	Bus	Over Voltage	0.400	kV	0.460	115.1	3-Phase
Bus530	Bus	Over Voltage	0.400	kV	0.460	115.1	3-Phase
Bus531	Bus	Over Voltage	0.400	kV	0.460	115.1	3-Phase
Bus533	Bus	Over Voltage	0.400	kV	0.467	116.7	3-Phase
Bus536	Bus	Over Voltage	0.400	kV	0.467	116.7	3-Phase
Bus537	Bus	Over Voltage	0.400	kV	0.467	116.7	3-Phase
Bus538	Bus	Over Voltage	0.400	kV	0.467	116.7	3-Phase
Bus539	Bus	Over Voltage	0.400	kV	0.467	116.7	3-Phase
Bus540	Bus	Over Voltage	0.400	kV	0.467	116.7	3-Phase
Bus541	Bus	Over Voltage	0.400	kV	0.467	116.7	3-Phase
Bus542	Bus	Over Voltage	0.400	kV	0.467	116.7	3-Phase
Bus543	Bus	Over Voltage	0.400	kV	0.467	116.7	3-Phase
Bus544	Bus	Over Voltage	0.400	kV	0.467	116.7	3-Phase
Bus545	Bus	Over Voltage	0.400	kV	0.461	115.3	3-Phase
Bus546	Bus	Over Voltage	0.400	kV	0.461	115.2	3-Phase
Bus547	Bus	Over Voltage	0.400	kV	0.461	115.2	3-Phase
Bus548	Bus	Over Voltage	0.400	kV	0.461	115.2	3-Phase
Bus549	Bus	Over Voltage	0.400	kV	0.461	115.2	3-Phase
Bus550	Bus	Over Voltage	0.400	kV	0.461	115.2	3-Phase
Bus551	Bus	Over Voltage	0.400	kV	0.461	115.2	3-Phase
Bus552	Bus	Over Voltage	0.400	kV	0.461	115.2	3-Phase
Bus553	Bus	Over Voltage	0.400	kV	0.461	115.2	3-Phase
Bus554	Bus	Over Voltage	0.400	kV	0.461	115.2	3-Phase
Bus556	Bus	Over Voltage	0.400	kV	0.455	113.7	3-Phase
Bus558	Bus	Over Voltage	0.400	kV	0.454	113.5	3-Phase

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Bus560	Bus	Over Voltage	0.400	kV	0.461	115.2	3-Phase
Bus562	Bus	Over Voltage	0.400	kV	0.460	115.1	3-Phase
Bus564	Bus	Over Voltage	0.400	kV	0.454	113.5	3-Phase
Cable120	Cable	Overload	217.708	Amp	652.308	299.6	3-Phase
Cable121	Cable	Overload	217.708	Amp	580.953	266.8	3-Phase
Cable122	Cable	Overload	217.708	Amp	384.600	176.7	3-Phase
Cable123	Cable	Overload	217.708	Amp	714.598	328.2	3-Phase
Cable124	Cable	Overload	217.708	Amp	651.651	299.3	3-Phase
Cable45	Cable	Overload	217.708	Amp	651.651	299.3	3-Phase
CB1	HV CB	Overload	0.600	Amp	0.616	102.7	3-Phase
CB2	HV CB	Overload	0.600	Amp	101.014	16835.7	3-Phase
CB4	HV CB	Overload	0.600	Amp	1.670	278.4	3-Phase
CB5	HV CB	Overload	0.600	Amp	10.654	1775.6	3-Phase
CB58	HV CB	Overload	0.600	Amp	5.291	881.8	3-Phase
Line10	Line	Overload	98.800	Amp	99.648	100.9	3-Phase
Line100	Line	Overload	2.900	Amp	3.680	126.9	3-Phase
Line101	Line	Overload	2.000	Amp	2.523	126.2	3-Phase
Line102	Line	Overload	2.000	Amp	2.525	126.2	3-Phase
Line103	Line	Overload	5.800	Amp	7.315	126.1	3-Phase
Line104	Line	Overload	5.800	Amp	7.290	125.7	3-Phase
Line105	Line	Overload	5.100	Amp	6.467	126.8	3-Phase
Line106	Line	Overload	0.900	Amp	1.117	124.1	3-Phase
Line108	Line	Overload	0.900	Amp	1.124	124.9	3-Phase
Line109	Line	Overload	3.100	Amp	3.935	126.9	3-Phase
Line11	Line	Overload	97.600	Amp	98.193	100.6	3-Phase
Line110	Line	Overload	2.800	Amp	3.540	126.4	3-Phase
Line111	Line	Overload	2.400	Amp	3.085	128.6	3-Phase
Line112	Line	Overload	1.300	Amp	1.596	122.7	3-Phase
Line113	Line	Overload	0.200	Amp	0.214	107.0	3-Phase
Line114	Line	Overload	8.900	Amp	11.207	125.9	3-Phase
Line115	Line	Overload	0.900	Amp	1.077	119.7	3-Phase
Line116	Line	Overload	8.000	Amp	10.136	126.7	3-Phase
Line117	Line	Overload	6.600	Amp	8.443	127.9	3-Phase
Line118	Line	Overload	5.000	Amp	6.265	125.3	3-Phase
Line12	Line	Overload	97.600	Amp	98.201	100.6	3-Phase
Line120	Line	Overload	2.300	Amp	2.968	129.0	3-Phase

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Line121	Line	Overload	0.800	Amp	1.040	130.1	3-Phase
Line122	Line	Overload	1.800	Amp	2.301	127.8	3-Phase
Line123	Line	Overload	1.800	Amp	2.196	122.0	3-Phase
Line124	Line	Overload	0.400	Amp	0.552	138.0	3-Phase
Line125	Line	Overload	1.400	Amp	1.703	121.6	3-Phase
Line126	Line	Overload	1.400	Amp	1.690	120.7	3-Phase
Line127	Line	Overload	1.000	Amp	1.294	129.4	3-Phase
Line129	Line	Overload	80.000	Amp	81.124	101.4	3-Phase
Line13	Line	Overload	97.300	Amp	97.877	100.6	3-Phase
Line130	Line	Overload	1.800	Amp	2.397	133.2	3-Phase
Line131	Line	Overload	78.200	Amp	78.975	101.0	3-Phase
Line132	Line	Overload	77.800	Amp	78.675	101.1	3-Phase
Line133	Line	Overload	75.200	Amp	75.701	100.7	3-Phase
Line134	Line	Overload	75.200	Amp	75.718	100.7	3-Phase
Line136	Line	Overload	72.600	Amp	72.922	100.4	3-Phase
Line137	Line	Overload	2.100	Amp	2.659	126.6	3-Phase
Line141	Line	Overload	0.600	Amp	0.706	117.6	3-Phase
Line142	Line	Overload	0.600	Amp	0.717	119.5	3-Phase
Line143	Line	Overload	0.500	Amp	0.647	129.4	3-Phase
Line144	Line	Overload	0.500	Amp	0.652	130.4	3-Phase
Line145	Line	Overload	15.300	Amp	19.464	127.2	3-Phase
Line146	Line	Overload	14.200	Amp	18.133	127.7	3-Phase
Line147	Line	Overload	0.500	Amp	0.637	127.4	3-Phase
Line148	Line	Overload	13.800	Amp	17.523	127.0	3-Phase
Line149	Line	Overload	13.000	Amp	16.624	127.9	3-Phase
Line150	Line	Overload	1.400	Amp	1.844	131.7	3-Phase
Line152	Line	Overload	10.800	Amp	13.759	127.4	3-Phase
Line153	Line	Overload	1.100	Amp	1.432	130.2	3-Phase
Line154	Line	Overload	0.700	Amp	0.914	130.6	3-Phase
Line155	Line	Overload	9.000	Amp	11.429	127.0	3-Phase
Line156	Line	Overload	6.000	Amp	7.669	127.8	3-Phase
Line157	Line	Overload	3.800	Amp	4.929	129.7	3-Phase
Line158	Line	Overload	3.300	Amp	4.216	127.8	3-Phase
Line159	Line	Overload	2.200	Amp	2.882	131.0	3-Phase
Line16	Line	Overload	4.000	Amp	5.129	128.2	3-Phase
Line160	Line	Overload	0.600	Amp	0.729	121.5	3-Phase

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Line161	Line	Overload	72.600	Amp	72.913	100.4	3-Phase
Line162	Line	Overload	16.000	Amp	20.146	125.9	3-Phase
Line163	Line	Overload	11.600	Amp	14.785	127.5	3-Phase
Line164	Line	Overload	1.800	Amp	2.316	128.7	3-Phase
Line165	Line	Overload	1.800	Amp	2.327	129.3	3-Phase
Line167	Line	Overload	1.600	Amp	2.038	127.3	3-Phase
Line168	Line	Overload	0.200	Amp	0.298	149.1	3-Phase
Line17	Line	Overload	2.700	Amp	3.462	128.2	3-Phase
Line171	Line	Overload	1.400	Amp	1.784	127.4	3-Phase
Line172	Line	Overload	1.200	Amp	1.574	131.1	3-Phase
Line173	Line	Overload	0.200	Amp	0.230	114.9	3-Phase
Line177	Line	Overload	1.000	Amp	1.286	128.6	3-Phase
Line18	Line	Overload	1.300	Amp	1.670	128.5	3-Phase
Line182	Line	Overload	53.200	Amp	67.885	127.6	3-Phase
Line183	Line	Overload	51.500	Amp	65.752	127.7	3-Phase
Line184	Line	Overload	16.200	Amp	20.726	127.9	3-Phase
Line185	Line	Overload	12.200	Amp	15.505	127.1	3-Phase
Line186	Line	Overload	12.200	Amp	15.510	127.1	3-Phase
Line187	Line	Overload	11.000	Amp	14.128	128.4	3-Phase
Line188	Line	Overload	4.600	Amp	5.848	127.1	3-Phase
Line189	Line	Overload	2.200	Amp	2.796	127.1	3-Phase
Line19	Line	Overload	1.300	Amp	1.673	128.7	3-Phase
Line190	Line	Overload	2.200	Amp	2.815	127.9	3-Phase
Line191	Line	Overload	0.500	Amp	0.647	129.5	3-Phase
Line195	Line	Overload	1.100	Amp	1.400	127.3	3-Phase
Line196	Line	Overload	4.100	Amp	5.237	127.7	3-Phase
Line197	Line	Overload	3.000	Amp	3.727	124.2	3-Phase
Line198	Line	Overload	1.600	Amp	2.087	130.4	3-Phase
Line199	Line	Overload	1.000	Amp	1.296	129.6	3-Phase
Line2	Line	Overload	103.000	Amp	104.124	101.1	3-Phase
Line20	Line	Overload	1.400	Amp	1.678	119.9	3-Phase
Line200	Line	Overload	35.400	Amp	45.217	127.7	3-Phase
Line201	Line	Overload	2.000	Amp	2.544	127.2	3-Phase
Line202	Line	Overload	2.000	Amp	2.554	127.7	3-Phase
Line203	Line	Overload	33.500	Amp	42.768	127.7	3-Phase
Line204	Line	Overload	0.600	Amp	0.740	123.3	3-Phase

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Line205	Line	Overload	33.000	Amp	42.058	127.4	3-Phase
Line206	Line	Overload	17.300	Amp	21.983	127.1	3-Phase
Line207	Line	Overload	3.400	Amp	4.309	126.7	3-Phase
Line208	Line	Overload	0.900	Amp	1.125	125.0	3-Phase
Line209	Line	Overload	13.800	Amp	17.692	128.2	3-Phase
Line210	Line	Overload	11.500	Amp	14.701	127.8	3-Phase
Line212	Line	Overload	2.600	Amp	3.233	124.3	3-Phase
Line213	Line	Overload	1.000	Amp	1.312	131.2	3-Phase
Line214	Line	Overload	0.600	Amp	0.738	123.0	3-Phase
Line215	Line	Overload	8.500	Amp	10.792	127.0	3-Phase
Line216	Line	Overload	6.100	Amp	7.709	126.4	3-Phase
Line217	Line	Overload	4.600	Amp	5.972	129.8	3-Phase
Line218	Line	Overload	4.100	Amp	5.291	129.0	3-Phase
Line219	Line	Overload	4.100	Amp	5.310	129.5	3-Phase
Line220	Line	Overload	1.100	Amp	1.430	130.0	3-Phase
Line221	Line	Overload	1.100	Amp	1.452	132.0	3-Phase
Line222	Line	Overload	1.900	Amp	2.454	129.2	3-Phase
Line223	Line	Overload	1.600	Amp	2.054	128.4	3-Phase
Line224	Line	Overload	0.300	Amp	0.416	138.8	3-Phase
Line225	Line	Overload	1.100	Amp	1.371	124.6	3-Phase
Line226	Line	Overload	1.300	Amp	1.679	129.2	3-Phase
Line227	Line	Overload	0.200	Amp	0.241	120.5	3-Phase
Line228	Line	Overload	1.100	Amp	1.452	132.0	3-Phase
Line230	Line	Overload	1.000	Amp	1.325	132.5	3-Phase
Line231	Line	Overload	15.800	Amp	20.131	127.4	3-Phase
Line232	Line	Overload	3.900	Amp	4.757	122.0	3-Phase
Line233	Line	Overload	2.200	Amp	2.898	131.7	3-Phase
Line234	Line	Overload	0.200	Amp	0.333	166.3	3-Phase
Line235	Line	Overload	2.000	Amp	2.568	128.4	3-Phase
Line236	Line	Overload	9.900	Amp	12.488	126.1	3-Phase
Line237	Line	Overload	8.500	Amp	10.836	127.5	3-Phase
Line238	Line	Overload	1.100	Amp	1.397	127.0	3-Phase
Line239	Line	Overload	7.000	Amp	9.050	129.3	3-Phase
Line24	Line	Overload	0.600	Amp	0.711	118.5	3-Phase
Line240	Line	Overload	5.800	Amp	7.335	126.5	3-Phase
Line241	Line	Overload	5.000	Amp	6.324	126.5	3-Phase

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Line242	Line	Overload	0.200	Amp	0.228	114.1	3-Phase
Line243	Line	Overload	3.100	Amp	3.928	126.7	3-Phase
Line25	Line	Overload	0.600	Amp	0.711	118.4	3-Phase
Line26	Line	Overload	0.500	Amp	0.548	109.6	3-Phase
Line28	Line	Overload	0.400	Amp	0.491	122.7	3-Phase
Line3	Line	Overload	0.500	Amp	0.616	123.2	3-Phase
Line31	Line	Overload	2.100	Amp	2.805	133.6	3-Phase
Line34	Line	Overload	0.300	Amp	0.450	149.9	3-Phase
Line35	Line	Overload	0.100	Amp	0.133	132.5	3-Phase
Line4	Line	Overload	0.500	Amp	0.661	132.2	3-Phase
Line5	Line	Overload	102.200	Amp	103.567	101.3	3-Phase
Line51	Line	Overload	2.100	Amp	2.602	123.9	3-Phase
Line52	Line	Overload	1.000	Amp	1.183	118.3	3-Phase
Line57	Line	Overload	4.100	Amp	5.192	126.6	3-Phase
Line58	Line	Overload	3.400	Amp	4.445	130.7	3-Phase
Line59	Line	Overload	11.400	Amp	57.528	504.6	3-Phase
Line6	Line	Overload	100.300	Amp	101.423	101.1	3-Phase
Line60	Line	Overload	57.400	Amp	58.826	102.5	3-Phase
Line61	Line	Overload	1.300	Amp	1.548	119.1	3-Phase
Line62	Line	Overload	60.800	Amp	61.947	101.9	3-Phase
Line63	Line	Overload	0.400	Amp	0.521	130.3	3-Phase
Line64	Line	Overload	61.100	Amp	62.413	102.1	3-Phase
Line66	Line	Overload	61.200	Amp	62.535	102.2	3-Phase
Line67	Line	Overload	67.000	Amp	69.764	104.1	3-Phase
Line68	Line	Overload	0.200	Amp	0.313	156.7	3-Phase
Line69	Line	Overload	67.100	Amp	70.019	104.4	3-Phase
Line7	Line	Overload	100.000	Amp	101.014	101.0	3-Phase
Line70	Line	Overload	0.300	Amp	0.434	144.7	3-Phase
Line71	Line	Overload	5.800	Amp	7.237	124.8	3-Phase
Line72	Line	Overload	0.900	Amp	1.081	120.1	3-Phase
Line73	Line	Overload	0.200	Amp	0.360	179.9	3-Phase
Line74	Line	Overload	5.200	Amp	6.163	118.5	3-Phase
Line75	Line	Overload	0.200	Amp	0.236	117.8	3-Phase
Line76	Line	Overload	3.400	Amp	4.266	125.5	3-Phase
Line77	Line	Overload	3.000	Amp	3.610	120.3	3-Phase
Line78	Line	Overload	2.400	Amp	3.014	125.6	3-Phase

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Device ID	Type	Condition	Rating/Limit	Unit	Operating	% Operating	Phase Type
Line79	Line	Overload	1.000	Amp	1.319	131.9	3-Phase
Line8	Line	Overload	100.000	Amp	101.021	101.0	3-Phase
Line84	Line	Overload	4.100	Amp	5.210	127.1	3-Phase
Line85	Line	Overload	3.000	Amp	3.846	128.2	3-Phase
Line86	Line	Overload	2.800	Amp	3.559	127.1	3-Phase
Line87	Line	Overload	2.800	Amp	3.561	127.2	3-Phase
Line88	Line	Overload	2.800	Amp	3.601	128.6	3-Phase
Line89	Line	Overload	2.200	Amp	2.748	124.9	3-Phase
Line9	Line	Overload	100.000	Amp	101.040	101.0	3-Phase
Line90	Line	Overload	1.500	Amp	1.914	127.6	3-Phase
Line91	Line	Overload	1.500	Amp	1.918	127.9	3-Phase
Line92	Line	Overload	0.700	Amp	0.951	135.8	3-Phase
Line97	Line	Overload	19.100	Amp	24.220	126.8	3-Phase
Line98	Line	Overload	10.300	Amp	13.060	126.8	3-Phase
Line99	Line	Overload	4.600	Amp	5.769	125.4	3-Phase
mass stones	Transformer	Overload	0.040	MVA	0.070	177.5	3-Phase
old station	Transformer	Overload	0.251	MVA	0.343	136.7	3-Phase
T1	Transformer	Overload	0.396	MVA	0.432	109.1	3-Phase
T2	Transformer	Overload	0.396	MVA	0.432	109.2	3-Phase
T6	Transformer	Overload	0.251	MVA	0.255	101.8	3-Phase
T7	Transformer	Overload	0.396	MVA	0.474	119.6	3-Phase
T8	Transformer	Overload	0.396	MVA	0.432	109.1	3-Phase
tlfeet	Transformer	Overload	0.063	MVA	0.076	120.5	3-Phase
weastern	Transformer	Overload	0.157	MVA	0.258	164.5	3-Phase

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Device ID	Type	Condition	Rating/Limit	Unit	Operating	% Operating	Phase Type
alrfaid	Transformer	Overload	0.157	MVA	0.150	95.3	3-Phase
Bus100	Bus	Under Voltage	33.000	kV	31.836	96.5	3-Phase
Bus101	Bus	Under Voltage	33.000	kV	31.821	96.4	3-Phase
Bus102	Bus	Under Voltage	33.000	kV	31.821	96.4	3-Phase
Bus103	Bus	Under Voltage	33.000	kV	31.821	96.4	3-Phase
Bus104	Bus	Under Voltage	33.000	kV	31.817	96.4	3-Phase
Bus105	Bus	Under Voltage	33.000	kV	31.815	96.4	3-Phase
Bus106	Bus	Under Voltage	33.000	kV	31.813	96.4	3-Phase
Bus109	Bus	Under Voltage	33.000	kV	31.812	96.4	3-Phase

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Device ID	Type	Condition	Rating/Limit	Unit	Operating	% Operating	Phase Type
Bus110	Bus	Under Voltage	33.000	kV	31.811	96.4	3-Phase
Bus111	Bus	Under Voltage	33.000	kV	31.821	96.4	3-Phase
Bus112	Bus	Under Voltage	33.000	kV	31.835	96.5	3-Phase
Bus113	Bus	Under Voltage	33.000	kV	31.835	96.5	3-Phase
Bus114	Bus	Under Voltage	33.000	kV	31.734	96.2	3-Phase
Bus115	Bus	Under Voltage	33.000	kV	31.734	96.2	3-Phase
Bus116	Bus	Under Voltage	33.000	kV	31.721	96.1	3-Phase
Bus118	Bus	Under Voltage	33.000	kV	31.713	96.1	3-Phase
Bus119	Bus	Under Voltage	33.000	kV	31.712	96.1	3-Phase
Bus12	Bus	Under Voltage	33.000	kV	32.117	97.3	3-Phase
Bus120	Bus	Under Voltage	33.000	kV	31.712	96.1	3-Phase
Bus122	Bus	Under Voltage	33.000	kV	31.712	96.1	3-Phase
Bus123	Bus	Under Voltage	33.000	kV	31.714	96.1	3-Phase
Bus124	Bus	Under Voltage	33.000	kV	31.695	96.0	3-Phase
Bus125	Bus	Under Voltage	33.000	kV	31.687	96.0	3-Phase
Bus126	Bus	Under Voltage	33.000	kV	31.678	96.0	3-Phase
Bus127	Bus	Under Voltage	33.000	kV	31.675	96.0	3-Phase
Bus13	Bus	Under Voltage	33.000	kV	32.028	97.1	3-Phase
Bus135	Bus	Under Voltage	33.000	kV	31.674	96.0	3-Phase
Bus137	Bus	Under Voltage	33.000	kV	31.672	96.0	3-Phase
Bus138	Bus	Under Voltage	33.000	kV	31.667	96.0	3-Phase
Bus139	Bus	Under Voltage	33.000	kV	31.660	95.9	3-Phase
Bus14	Bus	Under Voltage	33.000	kV	31.923	96.7	3-Phase
Bus140	Bus	Under Voltage	33.000	kV	31.659	95.9	3-Phase
Bus141	Bus	Under Voltage	33.000	kV	31.659	95.9	3-Phase
Bus142	Bus	Under Voltage	33.000	kV	31.718	96.1	3-Phase
Bus143	Bus	Under Voltage	33.000	kV	31.718	96.1	3-Phase
Bus144	Bus	Under Voltage	33.000	kV	31.713	96.1	3-Phase
Bus145	Bus	Under Voltage	33.000	kV	31.712	96.1	3-Phase
Bus146	Bus	Under Voltage	33.000	kV	31.707	96.1	3-Phase
Bus147	Bus	Under Voltage	33.000	kV	31.707	96.1	3-Phase
Bus148	Bus	Under Voltage	33.000	kV	31.707	96.1	3-Phase
Bus149	Bus	Under Voltage	33.000	kV	31.706	96.1	3-Phase
Bus15	Bus	Under Voltage	33.000	kV	31.866	96.6	3-Phase
Bus150	Bus	Under Voltage	33.000	kV	31.706	96.1	3-Phase
Bus151	Bus	Under Voltage	33.000	kV	31.706	96.1	3-Phase

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Bus152	Bus	Under Voltage	33.000	kV	31.710	96.1	3-Phase
Bus153	Bus	Under Voltage	33.000	kV	31.710	96.1	3-Phase
Bus154	Bus	Under Voltage	33.000	kV	31.707	96.1	3-Phase
Bus155	Bus	Under Voltage	33.000	kV	31.706	96.1	3-Phase
Bus156	Bus	Under Voltage	33.000	kV	31.706	96.1	3-Phase
Bus157	Bus	Under Voltage	33.000	kV	31.706	96.1	3-Phase
Bus158	Bus	Under Voltage	33.000	kV	31.810	96.4	3-Phase
Bus159	Bus	Under Voltage	33.000	kV	31.809	96.4	3-Phase
Bus16	Bus	Under Voltage	33.000	kV	31.830	96.5	3-Phase
Bus160	Bus	Under Voltage	33.000	kV	31.801	96.4	3-Phase
Bus161	Bus	Under Voltage	33.000	kV	31.777	96.3	3-Phase
Bus162	Bus	Under Voltage	33.000	kV	31.769	96.3	3-Phase
Bus163	Bus	Under Voltage	33.000	kV	31.769	96.3	3-Phase
Bus164	Bus	Under Voltage	33.000	kV	31.714	96.1	3-Phase
Bus165	Bus	Under Voltage	33.000	kV	31.705	96.1	3-Phase
Bus167	Bus	Under Voltage	33.000	kV	31.678	96.0	3-Phase
Bus168	Bus	Under Voltage	33.000	kV	31.677	96.0	3-Phase
Bus169	Bus	Under Voltage	33.000	kV	31.659	95.9	3-Phase
Bus17	Bus	Under Voltage	33.000	kV	31.813	96.4	3-Phase
Bus170	Bus	Under Voltage	33.000	kV	31.659	95.9	3-Phase
Bus171	Bus	Under Voltage	33.000	kV	31.632	95.9	3-Phase
Bus173	Bus	Under Voltage	33.000	kV	31.624	95.8	3-Phase
Bus174	Bus	Under Voltage	33.000	kV	31.623	95.8	3-Phase
Bus175	Bus	Under Voltage	33.000	kV	31.622	95.8	3-Phase
Bus176	Bus	Under Voltage	33.000	kV	31.622	95.8	3-Phase
Bus177	Bus	Under Voltage	33.000	kV	31.621	95.8	3-Phase
Bus178	Bus	Under Voltage	33.000	kV	31.618	95.8	3-Phase
Bus179	Bus	Under Voltage	33.000	kV	31.599	95.8	3-Phase
Bus18	Bus	Under Voltage	33.000	kV	31.804	96.4	3-Phase
Bus180	Bus	Under Voltage	33.000	kV	31.599	95.8	3-Phase
Bus181	Bus	Under Voltage	33.000	kV	31.560	95.6	3-Phase
Bus182	Bus	Under Voltage	33.000	kV	31.534	95.6	3-Phase
Bus183	Bus	Under Voltage	33.000	kV	31.533	95.6	3-Phase
Bus184	Bus	Under Voltage	33.000	kV	31.530	95.5	3-Phase
Bus185	Bus	Under Voltage	33.000	kV	31.523	95.5	3-Phase
Bus186	Bus	Under Voltage	33.000	kV	31.522	95.5	3-Phase

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Bus187	Bus	Under Voltage	33.000	kV	31.522	95.5	3-Phase
Bus188	Bus	Under Voltage	33.000	kV	31.510	95.5	3-Phase
Bus189	Bus	Under Voltage	33.000	kV	31.504	95.5	3-Phase
Bus19	Bus	Under Voltage	33.000	kV	31.800	96.4	3-Phase
Bus190	Bus	Under Voltage	33.000	kV	31.504	95.5	3-Phase
Bus191	Bus	Under Voltage	33.000	kV	31.501	95.5	3-Phase
Bus192	Bus	Under Voltage	33.000	kV	31.498	95.4	3-Phase
Bus193	Bus	Under Voltage	33.000	kV	31.503	95.5	3-Phase
Bus194	Bus	Under Voltage	33.000	kV	31.510	95.5	3-Phase
Bus195	Bus	Under Voltage	33.000	kV	31.510	95.5	3-Phase
Bus196	Bus	Under Voltage	33.000	kV	31.507	95.5	3-Phase
Bus197	Bus	Under Voltage	33.000	kV	31.503	95.5	3-Phase
Bus198	Bus	Under Voltage	33.000	kV	31.502	95.5	3-Phase
Bus199	Bus	Under Voltage	33.000	kV	31.502	95.5	3-Phase
Bus20	Bus	Under Voltage	33.000	kV	31.799	96.4	3-Phase
Bus201	Bus	Under Voltage	33.000	kV	31.502	95.5	3-Phase
Bus202	Bus	Under Voltage	33.000	kV	31.501	95.5	3-Phase
Bus203	Bus	Under Voltage	33.000	kV	31.501	95.5	3-Phase
Bus21	Bus	Under Voltage	33.000	kV	31.798	96.4	3-Phase
Bus22	Bus	Under Voltage	33.000	kV	31.799	96.4	3-Phase
Bus229	Bus	Under Voltage	0.400	kV	0.381	95.2	3-Phase
Bus23	Bus	Under Voltage	33.000	kV	31.799	96.4	3-Phase
Bus234	Bus	Under Voltage	0.400	kV	0.381	95.4	3-Phase
Bus235	Bus	Under Voltage	0.400	kV	0.384	96.0	3-Phase
Bus237	Bus	Under Voltage	0.400	kV	0.385	96.1	3-Phase
Bus24	Bus	Under Voltage	33.000	kV	31.798	96.4	3-Phase
Bus240	Bus	Under Voltage	0.400	kV	0.385	96.2	3-Phase
Bus248	Bus	Under Voltage	0.400	kV	0.384	95.9	3-Phase
Bus25	Bus	Under Voltage	33.000	kV	31.797	96.4	3-Phase
Bus250	Bus	Under Voltage	0.400	kV	0.381	95.2	3-Phase
Bus252	Bus	Under Voltage	0.400	kV	0.384	96.1	3-Phase
Bus253	Bus	Under Voltage	0.400	kV	0.384	96.1	3-Phase
Bus254	Bus	Under Voltage	0.400	kV	0.384	96.0	3-Phase
Bus255	Bus	Under Voltage	0.400	kV	0.384	96.0	3-Phase
Bus256	Bus	Under Voltage	0.400	kV	0.382	95.4	3-Phase
Bus257	Bus	Under Voltage	0.400	kV	0.385	96.3	3-Phase

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Bus258	Bus	Under Voltage	0.400	kV	0.382	95.5	3-Phase
Bus259	Bus	Under Voltage	0.400	kV	0.381	95.2	3-Phase
Bus26	Bus	Under Voltage	33.000	kV	31.798	96.4	3-Phase
Bus260	Bus	Under Voltage	0.400	kV	0.384	96.1	3-Phase
Bus261	Bus	Under Voltage	0.400	kV	0.384	96.1	3-Phase
Bus262	Bus	Under Voltage	0.400	kV	0.380	95.1	3-Phase
Bus263	Bus	Under Voltage	0.400	kV	0.385	96.1	3-Phase
Bus264	Bus	Under Voltage	0.400	kV	0.384	96.1	3-Phase
Bus268	Bus	Under Voltage	0.400	kV	0.385	96.3	3-Phase
Bus269	Bus	Under Voltage	0.400	kV	0.383	95.9	3-Phase
Bus27	Bus	Under Voltage	33.000	kV	31.798	96.4	3-Phase
Bus270	Bus	Under Voltage	0.400	kV	0.381	95.3	3-Phase
Bus271	Bus	Under Voltage	0.400	kV	0.382	95.4	3-Phase
Bus272	Bus	Under Voltage	0.400	kV	0.385	96.2	3-Phase
Bus273	Bus	Under Voltage	0.400	kV	0.388	97.0	3-Phase
Bus274	Bus	Under Voltage	0.400	kV	0.387	96.7	3-Phase
Bus275	Bus	Under Voltage	0.400	kV	0.384	96.0	3-Phase
Bus276	Bus	Under Voltage	0.400	kV	0.384	96.0	3-Phase
Bus277	Bus	Under Voltage	0.400	kV	0.390	97.6	3-Phase
Bus278	Bus	Under Voltage	0.400	kV	0.386	96.6	3-Phase
Bus28	Bus	Under Voltage	33.000	kV	31.796	96.4	3-Phase
Bus280	Bus	Under Voltage	0.400	kV	0.382	95.6	3-Phase
Bus281	Bus	Under Voltage	0.400	kV	0.383	95.6	3-Phase
Bus282	Bus	Under Voltage	0.400	kV	0.381	95.2	3-Phase
Bus283	Bus	Under Voltage	0.400	kV	0.383	95.7	3-Phase
Bus284	Bus	Under Voltage	0.400	kV	0.383	95.7	3-Phase
Bus285	Bus	Under Voltage	0.400	kV	0.383	95.8	3-Phase
Bus286	Bus	Under Voltage	0.400	kV	0.383	95.8	3-Phase
Bus288	Bus	Under Voltage	0.400	kV	0.386	96.6	3-Phase
Bus29	Bus	Under Voltage	33.000	kV	31.795	96.3	3-Phase
Bus291	Bus	Under Voltage	0.400	kV	0.391	97.8	3-Phase
Bus299	Bus	Under Voltage	0.400	kV	0.387	96.9	3-Phase
Bus30	Bus	Under Voltage	33.000	kV	31.792	96.3	3-Phase
Bus300	Bus	Under Voltage	0.400	kV	0.384	95.9	3-Phase
Bus301	Bus	Under Voltage	0.400	kV	0.383	95.7	3-Phase
Bus303	Bus	Under Voltage	0.400	kV	0.384	96.1	3-Phase

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Bus304	Bus	Under Voltage	0.400	kV	0.385	96.2	3-Phase
Bus306	Bus	Under Voltage	0.400	kV	0.382	95.4	3-Phase
Bus307	Bus	Under Voltage	0.400	kV	0.382	95.6	3-Phase
Bus308	Bus	Under Voltage	0.400	kV	0.384	96.1	3-Phase
Bus309	Bus	Under Voltage	0.400	kV	0.384	96.0	3-Phase
Bus31	Bus	Under Voltage	33.000	kV	31.792	96.3	3-Phase
Bus310	Bus	Under Voltage	0.400	kV	0.383	95.7	3-Phase
Bus311	Bus	Under Voltage	0.400	kV	0.384	96.1	3-Phase
Bus312	Bus	Under Voltage	0.400	kV	0.384	96.0	3-Phase
Bus313	Bus	Under Voltage	0.400	kV	0.382	95.6	3-Phase
Bus314	Bus	Under Voltage	0.400	kV	0.381	95.2	3-Phase
Bus315	Bus	Under Voltage	0.400	kV	0.384	95.9	3-Phase
Bus316	Bus	Under Voltage	0.400	kV	0.386	96.4	3-Phase
Bus317	Bus	Under Voltage	0.400	kV	0.381	95.3	3-Phase
Bus319	Bus	Under Voltage	0.400	kV	0.382	95.5	3-Phase
Bus32	Bus	Under Voltage	33.000	kV	31.792	96.3	3-Phase
Bus320	Bus	Under Voltage	0.400	kV	0.381	95.4	3-Phase
Bus322	Bus	Under Voltage	0.400	kV	0.381	95.2	3-Phase
Bus324	Bus	Under Voltage	0.400	kV	0.383	95.7	3-Phase
Bus325	Bus	Under Voltage	0.400	kV	0.383	95.7	3-Phase
Bus327	Bus	Under Voltage	0.400	kV	0.382	95.6	3-Phase
Bus328	Bus	Under Voltage	0.400	kV	0.383	95.7	3-Phase
Bus329	Bus	Under Voltage	0.400	kV	0.382	95.6	3-Phase
Bus33	Bus	Under Voltage	33.000	kV	31.791	96.3	3-Phase
Bus330	Bus	Under Voltage	0.400	kV	0.383	95.7	3-Phase
Bus331	Bus	Under Voltage	0.400	kV	0.384	96.0	3-Phase
Bus333	Bus	Under Voltage	0.400	kV	0.381	95.2	3-Phase
Bus334	Bus	Under Voltage	0.400	kV	0.380	95.1	3-Phase
Bus335	Bus	Under Voltage	0.400	kV	0.383	95.7	3-Phase
Bus336	Bus	Under Voltage	0.400	kV	0.380	95.1	3-Phase
Bus337	Bus	Under Voltage	0.400	kV	0.381	95.3	3-Phase
Bus338	Bus	Under Voltage	0.400	kV	0.382	95.4	3-Phase
Bus34	Bus	Under Voltage	33.000	kV	31.790	96.3	3-Phase
Bus348	Bus	Under Voltage	0.400	kV	0.381	95.1	3-Phase
Bus349	Bus	Under Voltage	0.400	kV	0.381	95.3	3-Phase
Bus35	Bus	Under Voltage	33.000	kV	31.789	96.3	3-Phase

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Bus350	Bus	Under Voltage	0.400	kV	0.381	95.3	3-Phase
Bus352	Bus	Under Voltage	0.400	kV	0.382	95.4	3-Phase
Bus353	Bus	Under Voltage	33.000	kV	31.587	95.7	3-Phase
Bus354	Bus	Under Voltage	33.000	kV	31.587	95.7	3-Phase
Bus355	Bus	Under Voltage	33.000	kV	31.527	95.5	3-Phase
Bus356	Bus	Under Voltage	33.000	kV	31.526	95.5	3-Phase
Bus358	Bus	Under Voltage	33.000	kV	31.512	95.5	3-Phase
Bus359	Bus	Under Voltage	33.000	kV	31.512	95.5	3-Phase
Bus36	Bus	Under Voltage	33.000	kV	31.789	96.3	3-Phase
Bus360	Bus	Under Voltage	0.400	kV	0.381	95.2	3-Phase
Bus361	Bus	Under Voltage	33.000	kV	31.490	95.4	3-Phase
Bus362	Bus	Under Voltage	33.000	kV	31.498	95.4	3-Phase
Bus363	Bus	Under Voltage	33.000	kV	31.448	95.3	3-Phase
Bus365	Bus	Under Voltage	33.000	kV	31.411	95.2	3-Phase
Bus366	Bus	Under Voltage	33.000	kV	31.405	95.2	3-Phase
Bus367	Bus	Under Voltage	33.000	kV	31.393	95.1	3-Phase
Bus368	Bus	Under Voltage	33.000	kV	31.393	95.1	3-Phase
Bus369	Bus	Under Voltage	33.000	kV	31.388	95.1	3-Phase
Bus37	Bus	Under Voltage	33.000	kV	31.789	96.3	3-Phase
Bus370	Bus	Under Voltage	33.000	kV	31.382	95.1	3-Phase
Bus371	Bus	Under Voltage	33.000	kV	31.371	95.1	3-Phase
Bus373	Bus	Under Voltage	33.000	kV	31.382	95.1	3-Phase
Bus374	Bus	Under Voltage	33.000	kV	31.378	95.1	3-Phase
Bus376	Bus	Under Voltage	33.000	kV	31.377	95.1	3-Phase
Bus38	Bus	Under Voltage	33.000	kV	31.789	96.3	3-Phase
Bus39	Bus	Under Voltage	33.000	kV	31.788	96.3	3-Phase
Bus395	Bus	Under Voltage	0.400	kV	0.383	95.7	3-Phase
Bus396	Bus	Under Voltage	33.000	kV	31.507	95.5	3-Phase
Bus40	Bus	Under Voltage	33.000	kV	31.788	96.3	3-Phase
Bus41	Bus	Under Voltage	33.000	kV	31.790	96.3	3-Phase
Bus42	Bus	Under Voltage	33.000	kV	31.796	96.4	3-Phase
Bus429	Bus	Under Voltage	0.400	kV	0.383	95.7	3-Phase
Bus43	Bus	Under Voltage	33.000	kV	31.795	96.3	3-Phase
Bus430	Bus	Under Voltage	0.400	kV	0.383	95.7	3-Phase
Bus431	Bus	Under Voltage	0.400	kV	0.383	95.9	3-Phase
Bus432	Bus	Under Voltage	0.400	kV	0.383	95.6	3-Phase

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Device ID	Type	Condition	Rating/Limit	Unit	Operating	% Operating	Phase Type
Bus433	Bus	Under Voltage	0.400	kV	0.383	95.7	3-Phase
Bus434	Bus	Under Voltage	33.000	kV	31.387	95.1	3-Phase
Bus436	Bus	Under Voltage	33.000	kV	31.404	95.2	3-Phase
Bus438	Bus	Under Voltage	33.000	kV	31.400	95.2	3-Phase
Bus439	Bus	Under Voltage	33.000	kV	31.399	95.1	3-Phase
Bus44	Bus	Under Voltage	33.000	kV	31.795	96.3	3-Phase
Bus442	Bus	Under Voltage	33.000	kV	31.397	95.1	3-Phase
Bus444	Bus	Under Voltage	33.000	kV	31.391	95.1	3-Phase
Bus446	Bus	Under Voltage	33.000	kV	31.390	95.1	3-Phase
Bus448	Bus	Under Voltage	33.000	kV	31.388	95.1	3-Phase
Bus45	Bus	Under Voltage	33.000	kV	31.800	96.4	3-Phase
Bus450	Bus	Under Voltage	33.000	kV	31.382	95.1	3-Phase
Bus451	Bus	Under Voltage	33.000	kV	31.382	95.1	3-Phase
Bus46	Bus	Under Voltage	33.000	kV	31.823	96.4	3-Phase
Bus47	Bus	Under Voltage	33.000	kV	31.827	96.4	3-Phase
Bus48	Bus	Under Voltage	33.000	kV	31.829	96.5	3-Phase
Bus49	Bus	Under Voltage	33.000	kV	31.829	96.5	3-Phase
Bus50	Bus	Under Voltage	33.000	kV	31.831	96.5	3-Phase
Bus51	Bus	Under Voltage	33.000	kV	31.831	96.5	3-Phase
Bus52	Bus	Under Voltage	33.000	kV	31.831	96.5	3-Phase
Bus53	Bus	Under Voltage	33.000	kV	31.831	96.5	3-Phase
Bus54	Bus	Under Voltage	33.000	kV	31.831	96.5	3-Phase
Bus55	Bus	Under Voltage	33.000	kV	31.834	96.5	3-Phase
Bus56	Bus	Under Voltage	33.000	kV	31.834	96.5	3-Phase
Bus57	Bus	Under Voltage	33.000	kV	31.851	96.5	3-Phase
Bus58	Bus	Under Voltage	33.000	kV	31.857	96.5	3-Phase
Bus59	Bus	Under Voltage	33.000	kV	31.866	96.6	3-Phase
Bus60	Bus	Under Voltage	33.000	kV	31.866	96.6	3-Phase
Bus61	Bus	Under Voltage	33.000	kV	31.877	96.6	3-Phase
Bus62	Bus	Under Voltage	33.000	kV	31.884	96.6	3-Phase
Bus63	Bus	Under Voltage	33.000	kV	31.884	96.6	3-Phase
Bus64	Bus	Under Voltage	33.000	kV	31.884	96.6	3-Phase
Bus65	Bus	Under Voltage	33.000	kV	31.884	96.6	3-Phase
Bus66	Bus	Under Voltage	33.000	kV	31.883	96.6	3-Phase
Bus67	Bus	Under Voltage	33.000	kV	31.919	96.7	3-Phase
Bus68	Bus	Under Voltage	33.000	kV	32.080	97.2	3-Phase

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Device ID	Type	Condition	Rating/Limit	Unit	Operating	% Operating	Phase Type
Bus69	Bus	Under Voltage	33.000	kV	32.140	97.4	3-Phase
Bus70	Bus	Under Voltage	33.000	kV	32.170	97.5	3-Phase
Bus71	Bus	Under Voltage	33.000	kV	32.165	97.5	3-Phase
Bus72	Bus	Under Voltage	33.000	kV	32.155	97.4	3-Phase
Bus73	Bus	Under Voltage	33.000	kV	32.173	97.5	3-Phase
Bus96	Bus	Under Voltage	33.000	kV	31.845	96.5	3-Phase
Bus97	Bus	Under Voltage	33.000	kV	31.845	96.5	3-Phase
Bus98	Bus	Under Voltage	33.000	kV	31.840	96.5	3-Phase
Bus99	Bus	Under Voltage	33.000	kV	31.839	96.5	3-Phase
Line138	Line	Overload	70.500	Amp	70.465	100.0	3-Phase
Line139	Line	Overload	70.500	Amp	70.475	100.0	3-Phase
Line175	Line	Overload	54.200	Amp	54.126	99.9	3-Phase
Line176	Line	Overload	54.200	Amp	54.162	99.9	3-Phase
Line178	Line	Overload	53.300	Amp	53.129	99.7	3-Phase
Line180	Line	Overload	53.200	Amp	53.101	99.8	3-Phase
Line50	Line	Overload	49.000	Amp	46.558	95.0	3-Phase
Line53	Line	Overload	51.100	Amp	49.150	96.2	3-Phase
Line54	Line	Overload	52.100	Amp	50.392	96.7	3-Phase
Line55	Line	Overload	52.600	Amp	51.046	97.0	3-Phase
Line56	Line	Overload	53.800	Amp	52.603	97.8	3-Phase
T3	Transformer	Overload	0.396	MVA	0.385	97.3	3-Phase

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SUMMARY OF TOTAL GENERATION, LOADING & DEMAND

	MW	Mvar	MVA	% PF
Source (Swing Buses):	8.339	4.981	9.713	85.85 Lagging
Source (Non-Swing Buses):	2.740	-0.901	2.884	95.00 Leading
Total Demand:	11.079	4.080	11.806	93.84 Lagging
Total Motor Load:	10.048	3.822	10.750	93.47 Lagging
Total Static Load:	0.000	0.001	0.001	1.00 Lagging
Total Constant I Load:	0.000	0.000	0.000	
Total Generic Load:	0.000	0.000	0.000	
Apparent Losses:	1.031	0.258		
System Mismatch:	0.000	0.000		

Number of Iterations: 3