

Project:
Location:
Contract:
Engineer:
Filename: unbalance max load

ETAP
12.6.0H

Study Case: ULF

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Date: 11-08-2017
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Revision: Base
Config.: Normal

Branch Losses Summary Report

CKT / Branch		From-To Bus Flow		To-From Bus Flow		Losses		% Bus Voltage		Vd % Drop in Vmag	Amperes in Buried Winding
ID	Phase	MW	Mvar	MW	Mvar	kW	kvar	From	To		
C.20	A	0.145	0.024	-0.145	-0.024	0.0	0.0	99.8	99.8	0.00	0.00
	B	0.142	0.037	-0.142	-0.037	0.0	0.0	99.7	99.7	0.00	0.00
	C	0.133	0.028	-0.133	-0.028	0.0	0.0	99.9	99.9	0.00	0.00
C56	A	0.154	0.035	-0.154	-0.035	0.0	0.0	99.9	99.9	0.00	0.00
	B	0.137	0.039	-0.137	-0.039	0.0	0.0	99.8	99.8	0.00	0.00
	C	0.142	0.022	-0.142	-0.022	0.0	0.0	99.9	99.9	0.00	0.00
C59	A	0.554	0.091	-0.554	-0.091	0.0	0.0	99.9	99.9	0.00	0.00
	B	0.521	0.130	-0.521	-0.130	0.0	0.0	99.9	99.9	0.00	0.00
	C	0.505	0.082	-0.505	-0.082	0.0	0.0	100.0	100.0	0.00	0.00
C60	A	0.000	0.000	0.000	0.000	0.0	0.0	99.8	99.8	0.00	0.00
	B	0.000	0.000	0.000	0.000	0.0	0.0	99.7	99.7	0.00	0.00
	C	0.000	0.000	0.000	0.000	0.0	0.0	99.9	99.9	0.00	0.00
C61	A	0.660	0.124	-0.660	-0.124	0.0	0.0	100.0	100.0	0.00	0.00
	B	0.614	0.157	-0.614	-0.157	0.0	0.0	99.9	99.9	0.00	0.00
	C	0.609	0.102	-0.609	-0.102	0.0	0.0	100.0	100.0	0.00	0.00
C80	A	0.113	0.009	-0.113	-0.009	0.0	0.0	99.9	99.9	0.00	0.00
	B	0.113	0.030	-0.113	-0.030	0.0	0.0	99.8	99.8	0.00	0.00
	C	0.095	0.020	-0.095	-0.020	0.0	0.0	99.9	99.9	0.00	0.00
C96	A	1.283	0.221	-1.283	-0.221	0.1	0.1	100.0	100.0	0.01	0.00
	B	1.244	0.276	-1.243	-0.276	0.1	0.1	99.9	99.9	0.01	0.00
	C	1.217	0.216	-1.217	-0.216	0.1	0.1	100.0	100.0	0.01	0.00
C97	A	0.810	0.134	-0.810	-0.134	0.1	0.0	99.8	99.8	0.01	0.00
	B	0.804	0.156	-0.804	-0.156	0.1	0.0	99.8	99.8	0.01	0.00
	C	0.789	0.142	-0.789	-0.142	0.1	0.0	99.9	99.9	0.01	0.00
C100	A	0.033	0.005	-0.033	-0.005	0.0	0.0	99.8	99.8	0.00	0.00
	B	0.033	0.007	-0.033	-0.007	0.0	0.0	99.8	99.8	0.00	0.00
	C	0.032	0.006	-0.032	-0.006	0.0	0.0	99.9	99.9	0.00	0.00
C107	A	0.058	0.010	-0.058	-0.010	0.0	0.0	99.8	99.7	0.00	0.00
	B	0.057	0.012	-0.057	-0.012	0.0	0.0	99.7	99.7	0.00	0.00
	C	0.056	0.010	-0.056	-0.010	0.0	0.0	99.8	99.8	0.00	0.00
C117	A	0.136	0.036	-0.136	-0.036	0.0	0.0	99.7	99.7	0.00	0.00
	B	0.148	0.045	-0.148	-0.045	0.0	0.0	99.7	99.7	0.00	0.00
	C	0.135	0.052	-0.135	-0.052	0.0	0.0	99.8	99.8	0.00	0.00
C120	A	0.660	0.103	-0.660	-0.103	0.0	0.0	99.8	99.8	0.01	0.00
	B	0.675	0.126	-0.675	-0.126	0.1	0.0	99.8	99.8	0.01	0.00
	C	0.648	0.129	-0.648	-0.129	0.0	0.0	99.9	99.9	0.01	0.00
C128	A	1.091	0.183	-1.091	-0.182	0.1	0.1	99.9	99.9	0.01	0.00
	B	1.067	0.227	-1.067	-0.227	0.1	0.1	99.8	99.8	0.01	0.00
	C	1.042	0.185	-1.042	-0.185	0.1	0.1	99.9	99.9	0.01	0.00
C160	A	0.824	0.138	-0.824	-0.138	0.1	0.1	99.9	99.8	0.01	0.00
	B	0.817	0.158	-0.817	-0.158	0.1	0.1	99.8	99.8	0.01	0.00
	C	0.804	0.142	-0.804	-0.142	0.1	0.1	99.9	99.9	0.01	0.00

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CKT / Branch		From-To Bus Flow		To-From Bus Flow		Losses		% Bus Voltage		Vd % Drop in Vmag	Amperes in Buried Winding
ID	Phase	MW	Mvar	MW	Mvar	kW	kvar	From	To		
C162	A	0.978	0.173	-0.978	-0.173	0.1	0.1	99.9	99.9	0.02	0.00
	B	0.954	0.197	-0.953	-0.197	0.1	0.1	99.8	99.8	0.02	0.00
	C	0.947	0.165	-0.947	-0.165	0.1	0.1	99.9	99.9	0.02	0.00
C163	A	0.385	0.064	-0.385	-0.064	0.0	0.0	99.8	99.8	0.01	0.00
	B	0.408	0.058	-0.408	-0.058	0.0	0.0	99.7	99.7	0.01	0.00
	C	0.402	0.082	-0.402	-0.082	0.0	0.0	99.8	99.8	0.01	0.00
C191	A	0.824	0.138	-0.824	-0.138	0.1	0.1	99.9	99.9	0.02	0.00
	B	0.817	0.158	-0.817	-0.158	0.1	0.1	99.8	99.8	0.02	0.00
	C	0.804	0.142	-0.804	-0.142	0.1	0.1	99.9	99.9	0.02	0.00
C193	A	0.024	0.006	-0.024	-0.006	0.0	0.0	99.9	99.9	0.00	0.00
	B	0.022	0.003	-0.022	-0.003	0.0	0.0	99.8	99.8	0.00	0.00
	C	0.026	0.003	-0.026	-0.003	0.0	0.0	99.9	99.9	0.00	0.00
C203	A	0.089	-0.006	-0.089	0.006	0.0	0.0	99.8	99.8	0.00	0.00
	B	0.098	-0.017	-0.098	0.017	0.0	0.0	99.7	99.7	0.00	0.00
	C	0.103	-0.003	-0.103	0.003	0.0	0.0	99.8	99.8	0.00	0.00
C216	A	0.660	0.103	-0.660	-0.103	0.1	0.1	99.8	99.8	0.01	0.00
	B	0.675	0.126	-0.675	-0.126	0.1	0.1	99.8	99.8	0.01	0.00
	C	0.648	0.129	-0.648	-0.129	0.1	0.1	99.9	99.9	0.01	0.00
C246	A	1.125	0.185	-1.125	-0.185	0.3	0.2	99.9	99.9	0.03	0.00
	B	1.105	0.234	-1.104	-0.234	0.3	0.2	99.9	99.8	0.03	0.00
	C	1.073	0.193	-1.073	-0.193	0.3	0.2	100.0	99.9	0.03	0.00
C280	A	0.036	0.007	-0.036	-0.007	0.0	0.0	99.8	99.8	0.00	0.00
	B	0.033	0.004	-0.033	-0.004	0.0	0.0	99.7	99.7	0.00	0.00
	C	0.037	0.002	-0.037	-0.002	0.0	0.0	99.8	99.8	0.00	0.00
C319	A	0.031	0.023	-0.031	-0.023	0.0	0.0	99.7	99.7	0.00	0.00
	B	0.036	0.023	-0.036	-0.023	0.0	0.0	99.7	99.7	0.00	0.00
	C	0.034	0.028	-0.034	-0.028	0.0	0.0	99.8	99.8	0.00	0.00
C322	A	0.089	-0.006	-0.089	0.006	0.0	0.0	99.8	99.8	0.00	0.00
	B	0.098	-0.017	-0.098	0.017	0.0	0.0	99.7	99.7	0.00	0.00
	C	0.103	-0.003	-0.103	0.003	0.0	0.0	99.8	99.8	0.00	0.00
C330	A	0.014	0.003	-0.014	-0.003	0.0	0.0	99.9	99.9	0.00	0.00
	B	0.012	0.001	-0.012	-0.001	0.0	0.0	99.9	99.9	0.00	0.00
	C	0.015	0.001	-0.015	-0.001	0.0	0.0	100.0	100.0	0.00	0.00
C352	A	0.276	0.039	-0.276	-0.039	0.0	0.0	99.8	99.8	0.01	0.00
	B	0.268	0.062	-0.268	-0.062	0.0	0.0	99.8	99.8	0.01	0.00
	C	0.252	0.044	-0.252	-0.044	0.0	0.0	99.9	99.9	0.01	0.00
C361	A	0.553	0.082	-0.553	-0.082	0.1	0.1	99.8	99.8	0.02	0.00
	B	0.573	0.097	-0.573	-0.097	0.1	0.1	99.8	99.7	0.02	0.00
	C	0.550	0.108	-0.550	-0.108	0.1	0.1	99.9	99.8	0.02	0.00
C365	A	0.348	0.061	-0.348	-0.061	0.0	0.0	99.8	99.8	0.01	0.00
	B	0.368	0.057	-0.368	-0.057	0.0	0.0	99.7	99.7	0.01	0.00
	C	0.361	0.077	-0.361	-0.077	0.0	0.0	99.8	99.8	0.01	0.00
C368	A	0.070	0.013	-0.070	-0.013	0.0	0.0	99.8	99.8	0.00	0.00
	B	0.073	0.020	-0.073	-0.020	0.0	0.0	99.7	99.7	0.00	0.00
	C	0.066	0.019	-0.066	-0.019	0.0	0.0	99.9	99.9	0.00	0.00

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CKT / Branch		From-To Bus Flow		To-From Bus Flow		Losses		% Bus Voltage		Vd % Drop in Vmag	Amperes in Buried Winding
ID	Phase	MW	Mvar	MW	Mvar	kW	kvar	From	To		
C399	A	0.164	0.046	-0.164	-0.046	0.0	0.0	99.8	99.7	0.01	0.00
	B	0.178	0.055	-0.178	-0.055	0.0	0.0	99.7	99.7	0.01	0.00
	C	0.163	0.063	-0.163	-0.063	0.0	0.0	99.8	99.8	0.01	0.00
C409	A	0.037	0.004	-0.037	-0.004	0.0	0.0	99.8	99.8	0.00	0.00
	B	0.040	0.001	-0.040	-0.001	0.0	0.0	99.7	99.7	0.00	0.00
	C	0.041	0.005	-0.041	-0.005	0.0	0.0	99.8	99.8	0.00	0.00
C419	A	0.036	0.007	-0.036	-0.007	0.0	0.0	99.8	99.8	0.00	0.00
	B	0.033	0.004	-0.033	-0.004	0.0	0.0	99.7	99.7	0.00	0.00
	C	0.037	0.002	-0.037	-0.002	0.0	0.0	99.8	99.8	0.00	0.00
C422	A	0.091	0.017	-0.091	-0.017	0.0	0.0	99.9	99.9	0.00	0.00
	B	0.087	0.018	-0.087	-0.018	0.0	0.0	99.8	99.8	0.00	0.00
	C	0.088	0.014	-0.088	-0.014	0.0	0.0	99.9	99.9	0.00	0.00
C440	A	0.011	0.002	-0.011	-0.002	0.0	0.0	99.8	99.8	0.00	0.00
	B	0.013	0.002	-0.013	-0.002	0.0	0.0	99.7	99.7	0.00	0.00
	C	0.012	0.003	-0.012	-0.003	0.0	0.0	99.9	99.9	0.00	0.00
C450	A	0.046	0.004	-0.046	-0.004	0.0	0.0	99.8	99.8	0.00	0.00
	B	0.044	0.000	-0.044	0.000	0.0	0.0	99.8	99.8	0.00	0.00
	C	0.049	0.001	-0.049	-0.001	0.0	0.0	99.9	99.9	0.00	0.00
C.450	A	-0.088	-0.041	0.088	0.041	0.0	0.0	99.8	99.8	0.00	0.00
	B	-0.086	-0.040	0.086	0.040	0.0	0.0	99.7	99.7	0.00	0.00
	C	-0.088	-0.040	0.088	0.040	0.0	0.0	99.8	99.8	0.00	0.00
C461	A	0.015	0.002	-0.015	-0.002	0.0	0.0	99.8	99.8	0.00	0.00
	B	0.022	0.001	-0.022	-0.001	0.0	0.0	99.7	99.7	0.00	0.00
	C	0.020	0.008	-0.020	-0.008	0.0	0.0	99.8	99.8	0.00	0.00
C462	A	0.056	0.009	-0.056	-0.009	0.0	0.0	99.8	99.8	0.00	0.00
	B	0.051	0.009	-0.051	-0.009	0.0	0.0	99.7	99.7	0.00	0.00
	C	0.053	0.005	-0.053	-0.005	0.0	0.0	99.8	99.8	0.00	0.00
C463	A	0.014	0.003	-0.014	-0.003	0.0	0.0	99.9	99.9	0.00	0.00
	B	0.012	0.001	-0.012	-0.001	0.0	0.0	99.9	99.9	0.00	0.00
	C	0.015	0.001	-0.015	-0.001	0.0	0.0	100.0	100.0	0.00	0.00
C473	A	1.244	0.216	-1.243	-0.216	0.7	0.5	100.0	99.9	0.06	0.00
	B	1.202	0.266	-1.201	-0.266	0.6	0.4	99.9	99.9	0.06	0.00
	C	1.181	0.206	-1.180	-0.206	0.6	0.4	100.0	100.0	0.06	0.00
C476	A	0.071	0.011	-0.071	-0.011	0.0	0.0	99.7	99.7	0.00	0.00
	B	0.074	0.015	-0.074	-0.015	0.0	0.0	99.7	99.7	0.00	0.00
	C	0.070	0.015	-0.070	-0.015	0.0	0.0	99.8	99.8	0.00	0.00
C514	A	0.127	0.022	-0.127	-0.022	0.0	0.0	99.9	99.9	0.01	0.00
	B	0.121	0.026	-0.121	-0.026	0.0	0.0	99.9	99.9	0.01	0.00
	C	0.120	0.018	-0.120	-0.018	0.0	0.0	100.0	100.0	0.01	0.00
C517	A	-0.044	-0.030	0.044	0.030	0.0	0.0	99.8	99.8	0.00	0.00
	B	-0.043	-0.041	0.043	0.041	0.0	0.0	99.7	99.7	0.00	0.00
	C	-0.034	-0.035	0.034	0.035	0.0	0.0	99.8	99.8	0.00	0.00
C518	A	-0.005	-0.026	0.005	0.026	0.0	0.0	99.8	99.8	0.00	0.00
	B	-0.001	-0.031	0.001	0.031	0.0	0.0	99.7	99.7	0.00	0.00
	C	0.002	-0.025	-0.002	0.025	0.0	0.0	99.8	99.8	0.00	0.00

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CKT / Branch		From-To Bus Flow		To-From Bus Flow		Losses		% Bus Voltage		Vd % Drop in Vmag	Amperes in Buried Winding
ID	Phase	MW	Mvar	MW	Mvar	kW	kvar	From	To		
C526	A	0.113	0.018	-0.113	-0.018	0.0	0.0	99.9	99.9	0.01	0.00
	B	0.109	0.025	-0.109	-0.025	0.0	0.0	99.9	99.8	0.01	0.00
	C	0.105	0.018	-0.105	-0.018	0.0	0.0	100.0	99.9	0.01	0.00
C558	A	0.030	0.005	-0.030	-0.005	0.0	0.0	99.8	99.8	0.00	0.00
	B	0.028	0.006	-0.028	-0.006	0.0	0.0	99.8	99.8	0.00	0.00
	C	0.028	0.004	-0.028	-0.004	0.0	0.0	99.9	99.9	0.00	0.00
C577	A	0.053	-0.015	-0.053	0.015	0.0	0.0	99.8	99.8	0.00	0.00
	B	0.055	-0.019	-0.055	0.019	0.0	0.0	99.7	99.7	0.00	0.00
	C	0.058	-0.015	-0.058	0.015	0.0	0.0	99.8	99.8	0.00	0.00
C587	A	0.040	0.009	-0.040	-0.009	0.0	0.0	99.7	99.7	0.00	0.00
	B	0.039	0.005	-0.039	-0.005	0.0	0.0	99.7	99.7	0.00	0.00
	C	0.043	0.007	-0.043	-0.007	0.0	0.0	99.8	99.8	0.00	0.00
C603	A	0.308	0.055	-0.308	-0.055	0.1	0.0	99.8	99.8	0.02	0.00
	B	0.332	0.048	-0.332	-0.048	0.1	0.0	99.7	99.7	0.02	0.00
	C	0.327	0.072	-0.327	-0.072	0.1	0.0	99.8	99.8	0.02	0.00
C622	A	0.032	0.002	-0.032	-0.002	0.0	0.0	99.9	99.9	0.00	0.00
	B	0.035	0.009	-0.035	-0.009	0.0	0.0	99.8	99.8	0.00	0.00
	C	0.027	0.008	-0.027	-0.008	0.0	0.0	99.9	99.9	0.00	0.00
C727	A	0.050	0.008	-0.050	-0.008	0.0	0.0	99.9	99.9	0.00	0.00
	B	0.052	0.009	-0.052	-0.009	0.0	0.0	99.8	99.8	0.00	0.00
	C	0.050	0.010	-0.050	-0.010	0.0	0.0	99.9	99.9	0.00	0.00
C728	A	0.087	0.010	-0.087	-0.010	0.0	0.0	99.8	99.8	0.01	0.00
	B	0.087	0.018	-0.087	-0.018	0.0	0.0	99.7	99.7	0.01	0.00
	C	0.080	0.014	-0.080	-0.014	0.0	0.0	99.8	99.8	0.01	0.00
C806	A	0.246	0.034	-0.246	-0.034	0.0	0.0	99.8	99.8	0.02	0.00
	B	0.239	0.056	-0.239	-0.056	0.0	0.0	99.8	99.8	0.02	0.00
	C	0.224	0.040	-0.224	-0.040	0.0	0.0	99.9	99.9	0.02	0.00
C811	A	0.075	0.011	-0.075	-0.011	0.0	0.0	99.8	99.8	0.01	0.00
	B	0.069	0.017	-0.069	-0.017	0.0	0.0	99.7	99.7	0.01	0.00
	C	0.067	0.009	-0.067	-0.009	0.0	0.0	99.9	99.9	0.01	0.00
C815	A	-0.067	-0.035	0.067	0.035	0.0	0.0	99.8	99.8	0.01	0.00
	B	-0.068	-0.039	0.068	0.039	0.0	0.0	99.7	99.7	0.01	0.00
	C	-0.064	-0.038	0.064	0.038	0.0	0.0	99.8	99.8	0.01	0.00
C880	A	-0.088	-0.041	0.088	0.041	0.0	0.0	99.8	99.8	0.01	0.00
	B	-0.086	-0.040	0.086	0.040	0.0	0.0	99.7	99.7	0.01	0.00
	C	-0.088	-0.040	0.088	0.040	0.0	0.0	99.8	99.8	0.01	0.00
Co14	A	0.000	0.000	0.000	0.000	0.0	0.0	99.8	99.8	0.00	0.00
	B	0.000	0.000	0.000	0.000	0.0	0.0	99.8	99.8	0.00	0.00
	C	0.000	0.000	0.000	0.000	0.0	0.0	99.9	99.9	0.00	0.00
Co57	A	0.031	0.023	-0.031	-0.023	0.0	0.0	99.7	99.7	0.00	0.00
	B	0.036	0.023	-0.036	-0.023	0.0	0.0	99.7	99.7	0.00	0.00
	C	0.034	0.028	-0.034	-0.028	0.0	0.0	99.8	99.8	0.00	0.00
Co58	A	0.079	0.012	-0.079	-0.012	0.0	0.0	99.9	99.9	0.00	0.00
	B	0.067	0.020	-0.067	-0.020	0.0	0.0	99.8	99.8	0.00	0.00
	C	0.066	0.006	-0.066	-0.006	0.0	0.0	99.9	99.9	0.00	0.00

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CKT / Branch		From-To Bus Flow		To-From Bus Flow		Losses		% Bus Voltage		Vd % Drop in Vmag	Amperes in Buried Winding
ID	Phase	MW	Mvar	MW	Mvar	kW	kvar	From	To		
Co130	A	0.427	0.069	-0.427	-0.069	0.0	0.0	99.9	99.9	0.00	0.00
	B	0.400	0.103	-0.400	-0.103	0.0	0.0	99.8	99.8	0.00	0.00
	C	0.385	0.064	-0.385	-0.064	0.0	0.0	99.9	99.9	0.00	0.00
Co260	A	0.000	0.000	0.000	0.000	0.0	0.0	99.8	99.8	0.00	0.00
	B	0.000	0.000	0.000	0.000	0.0	0.0	99.7	99.7	0.00	0.00
	C	0.000	0.000	0.000	0.000	0.0	0.0	99.9	99.9	0.00	0.00
Co261	A	0.027	0.003	-0.027	-0.003	0.0	0.0	99.8	99.8	0.00	0.00
	B	0.025	0.004	-0.025	-0.004	0.0	0.0	99.8	99.8	0.00	0.00
	C	0.025	0.002	-0.025	-0.002	0.0	0.0	99.9	99.9	0.00	0.00
Co294	A	0.059	0.008	-0.059	-0.008	0.0	0.0	99.9	99.9	0.00	0.00
	B	0.050	0.016	-0.050	-0.016	0.0	0.0	99.8	99.8	0.00	0.00
	C	0.048	0.004	-0.048	-0.004	0.0	0.0	99.9	99.9	0.00	0.00
Co528	A	0.011	0.001	-0.011	-0.001	0.0	0.0	99.8	99.8	0.00	0.00
	B	0.012	0.001	-0.012	-0.001	0.0	0.0	99.8	99.8	0.00	0.00
	C	0.011	0.001	-0.011	-0.001	0.0	0.0	99.9	99.9	0.00	0.00
Co600	A	0.427	0.070	-0.427	-0.069	0.1	0.1	99.9	99.9	0.02	0.00
	B	0.400	0.103	-0.400	-0.103	0.1	0.1	99.9	99.8	0.02	0.00
	C	0.385	0.064	-0.385	-0.064	0.1	0.1	100.0	99.9	0.02	0.00
Co645	A	0.027	0.003	-0.027	-0.003	0.0	0.0	99.8	99.8	0.00	0.00
	B	0.025	0.004	-0.025	-0.004	0.0	0.0	99.8	99.8	0.00	0.00
	C	0.025	0.002	-0.025	-0.002	0.0	0.0	99.9	99.9	0.00	0.00
Co999	A	0.074	0.011	-0.074	-0.011	0.0	0.0	99.9	99.9	0.01	0.00
	B	0.063	0.019	-0.063	-0.019	0.0	0.0	99.8	99.8	0.01	0.00
	C	0.062	0.005	-0.062	-0.005	0.0	0.0	99.9	99.9	0.00	0.00
Co.1032	A	0.000	0.000	0.000	0.000	0.0	0.0	99.8	99.8	0.00	0.00
	B	0.000	0.000	0.000	0.000	0.0	0.0	99.7	99.7	0.00	0.00
	C	0.000	0.000	0.000	0.000	0.0	0.0	99.9	99.9	0.00	0.00
D240	A	0.012	0.001	-0.012	-0.001	0.0	0.0	99.9	99.9	0.00	0.00
	B	0.013	0.002	-0.013	-0.002	0.0	0.0	99.8	99.8	0.00	0.00
	C	0.011	0.003	-0.011	-0.003	0.0	0.0	99.9	99.9	0.00	0.00
D256	A	0.012	0.001	-0.012	-0.001	0.0	0.0	99.9	99.9	0.00	0.00
	B	0.013	0.002	-0.013	-0.002	0.0	0.0	99.8	99.8	0.00	0.00
	C	0.011	0.003	-0.011	-0.003	0.0	0.0	99.9	99.9	0.00	0.00
D276	A	0.012	0.001	-0.012	-0.001	0.0	0.0	99.9	99.9	0.00	0.00
	B	0.013	0.002	-0.013	-0.002	0.0	0.0	99.8	99.8	0.00	0.00
	C	0.011	0.003	-0.011	-0.003	0.0	0.0	99.9	99.9	0.00	0.00
D634	A	0.035	0.005	-0.035	-0.005	0.0	0.0	99.9	99.9	0.00	0.00
	B	0.031	0.009	-0.031	-0.009	0.0	0.0	99.8	99.8	0.00	0.00
	C	0.030	0.004	-0.030	-0.004	0.0	0.0	99.9	99.9	0.00	0.00
D655	A	0.059	0.008	-0.059	-0.008	0.0	0.0	99.9	99.9	0.00	0.00
	B	0.050	0.016	-0.050	-0.016	0.0	0.0	99.8	99.8	0.00	0.00
	C	0.048	0.004	-0.048	-0.004	0.0	0.0	99.9	99.9	0.00	0.00
D711	A	0.059	0.008	-0.059	-0.008	0.0	0.0	99.9	99.9	0.00	0.00
	B	0.050	0.016	-0.050	-0.016	0.0	0.0	99.8	99.8	0.00	0.00
	C	0.048	0.004	-0.048	-0.004	0.0	0.0	99.9	99.9	0.00	0.00

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CKT / Branch		From-To Bus Flow		To-From Bus Flow		Losses		% Bus Voltage		Vd % Drop in Vmag	Amperes in Buried Winding
ID	Phase	MW	Mvar	MW	Mvar	kW	kvar	From	To		
D718	A	0.012	0.001	-0.012	-0.001	0.0	0.0	99.9	99.9	0.00	0.00
	B	0.013	0.002	-0.013	-0.002	0.0	0.0	99.8	99.8	0.00	0.00
	C	0.011	0.003	-0.011	-0.003	0.0	0.0	99.9	99.9	0.00	0.00
R10	A	0.011	0.001	-0.011	-0.001	0.0	0.0	99.8	99.8	0.00	0.00
	B	0.012	0.001	-0.012	-0.001	0.0	0.0	99.8	99.8	0.00	0.00
	C	0.011	0.001	-0.011	-0.001	0.0	0.0	99.9	99.9	0.00	0.00
R36	A	1.943	0.345	-1.943	-0.345	0.2	0.1	100.0	100.0	0.01	0.00
	B	1.858	0.433	-1.858	-0.433	0.2	0.1	99.9	99.9	0.01	0.00
	C	1.826	0.318	-1.826	-0.318	0.2	0.1	100.0	100.0	0.01	0.00
R45	A	0.145	0.024	-0.145	-0.024	0.0	0.0	99.8	99.8	0.00	0.00
	B	0.142	0.037	-0.142	-0.037	0.0	0.0	99.7	99.7	0.00	0.00
	C	0.133	0.028	-0.133	-0.028	0.0	0.0	99.9	99.9	0.00	0.00
R106	A	0.660	0.124	-0.660	-0.124	0.1	0.0	100.0	100.0	0.01	0.00
	B	0.614	0.157	-0.614	-0.157	0.1	0.0	99.9	99.9	0.01	0.00
	C	0.609	0.102	-0.609	-0.102	0.1	0.0	100.0	100.0	0.01	0.00
R150	A	0.145	0.024	-0.145	-0.024	0.0	0.0	99.8	99.8	0.00	0.00
	B	0.142	0.037	-0.142	-0.037	0.0	0.0	99.8	99.8	0.00	0.00
	C	0.133	0.028	-0.133	-0.028	0.0	0.0	99.9	99.9	0.00	0.00
R164	A	0.295	0.045	-0.295	-0.045	0.0	0.0	99.9	99.9	0.01	0.00
	B	0.286	0.070	-0.286	-0.070	0.0	0.0	99.8	99.8	0.01	0.00
	C	0.269	0.049	-0.269	-0.049	0.0	0.0	99.9	99.9	0.01	0.00
R190	A	0.632	0.114	-0.632	-0.114	0.1	0.1	100.0	100.0	0.02	0.00
	B	0.584	0.147	-0.584	-0.147	0.1	0.1	99.9	99.9	0.02	0.00
	C	0.580	0.090	-0.580	-0.090	0.1	0.1	100.0	100.0	0.02	0.00
R380	A	0.145	0.024	-0.145	-0.024	0.0	0.0	99.8	99.8	0.01	0.00
	B	0.142	0.037	-0.142	-0.037	0.0	0.0	99.8	99.7	0.01	0.00
	C	0.133	0.028	-0.133	-0.028	0.0	0.0	99.9	99.9	0.01	0.00
R410	A	0.012	0.001	-0.012	-0.001	0.0	0.0	99.9	99.9	0.00	0.00
	B	0.013	0.002	-0.013	-0.002	0.0	0.0	99.8	99.8	0.00	0.00
	C	0.011	0.003	-0.011	-0.003	0.0	0.0	99.9	99.9	0.00	0.00
R436	A	0.632	0.114	-0.631	-0.114	0.3	0.2	100.0	99.9	0.04	0.00
	B	0.584	0.147	-0.583	-0.147	0.2	0.2	99.9	99.9	0.04	0.00
	C	0.580	0.090	-0.580	-0.090	0.2	0.1	100.0	100.0	0.04	0.00
R455	A	0.024	0.006	-0.024	-0.006	0.0	0.0	99.9	99.9	0.00	0.00
	B	0.022	0.003	-0.022	-0.003	0.0	0.0	99.8	99.8	0.00	0.00
	C	0.026	0.003	-0.026	-0.003	0.0	0.0	99.9	99.9	0.00	0.00
R560	A	0.000	0.000	0.000	0.000	0.0	0.0	99.8	99.8	0.00	0.00
	B	0.000	0.000	0.000	0.000	0.0	0.0	99.7	99.7	0.00	0.00
	C	0.000	0.000	0.000	0.000	0.0	0.0	99.8	99.8	0.00	0.00
R734	A	0.295	0.045	-0.295	-0.045	0.1	0.1	99.9	99.8	0.03	0.00
	B	0.286	0.070	-0.286	-0.070	0.1	0.1	99.8	99.8	0.04	0.00
	C	0.269	0.049	-0.269	-0.049	0.1	0.1	99.9	99.9	0.03	0.00
R803	A	0.039	0.005	-0.039	-0.005	0.0	0.0	99.8	99.7	0.00	0.00
	B	0.041	0.010	-0.041	-0.010	0.0	0.0	99.7	99.7	0.01	0.00
	C	0.035	0.010	-0.035	-0.010	0.0	0.0	99.8	99.8	0.00	0.00

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CKT / Branch		From-To Bus Flow		To-From Bus Flow		Losses		% Bus Voltage		Vd % Drop in Vmag	Amperes in Buried Winding
ID	Phase	MW	Mvar	MW	Mvar	kW	kvar	From	To		
R844	A	0.015	0.002	-0.015	-0.002	0.0	0.0	99.9	99.9	0.00	0.00
	B	0.013	0.003	-0.013	-0.003	0.0	0.0	99.8	99.8	0.00	0.00
	C	0.013	0.000	-0.013	0.000	0.0	0.0	99.9	99.9	0.00	0.00
R950	A	0.050	0.008	-0.050	-0.008	0.0	0.0	99.9	99.9	0.01	0.00
	B	0.052	0.009	-0.052	-0.009	0.0	0.0	99.8	99.8	0.01	0.00
	C	0.050	0.010	-0.050	-0.010	0.0	0.0	99.9	99.9	0.01	0.00
R1435	A	0.065	0.004	-0.065	-0.004	0.0	0.0	99.8	99.8	0.01	0.00
	B	0.055	0.016	-0.055	-0.016	0.0	0.0	99.8	99.8	0.01	0.00
	C	0.049	0.001	-0.049	-0.001	0.0	0.0	99.9	99.9	0.01	0.00
R1499	A	0.012	0.001	-0.012	-0.001	0.0	0.0	99.9	99.9	0.00	0.00
	B	0.013	0.002	-0.013	-0.002	0.0	0.0	99.8	99.8	0.00	0.00
	C	0.011	0.003	-0.011	-0.003	0.0	0.0	99.9	99.9	0.00	0.00
T1 Al-masjid Al_kaber	A	0.104	0.028	-0.101	-0.030	2.5	-1.9	99.9	98.8	1.04	0.00
	B	0.084	0.030	-0.078	-0.011	6.6	18.9	99.8	99.3	0.47	0.00
	C	0.092	0.012	-0.100	-0.020	-7.4	-8.1	99.9	99.1	0.78	0.00
T2 Mothalath Al_borg	A	0.104	0.028	-0.101	-0.030	2.5	-1.9	99.9	98.9	1.04	0.00
	B	0.084	0.030	-0.078	-0.011	6.6	18.9	99.9	99.4	0.47	0.00
	C	0.092	0.012	-0.100	-0.020	-7.4	-8.1	100.0	99.2	0.78	0.00
T3 Maskaneh	A	0.104	0.028	-0.101	-0.030	2.5	-1.9	99.8	98.8	1.04	0.00
	B	0.084	0.030	-0.078	-0.011	6.6	18.9	99.8	99.3	0.47	0.00
	C	0.092	0.012	-0.100	-0.020	-7.4	-8.1	99.9	99.1	0.78	0.00
T4 Bear mtawi'	A	0.077	0.023	-0.065	-0.016	12.5	6.8	99.9	99.3	0.62	0.00
	B	0.063	0.017	-0.062	-0.013	0.7	4.5	99.9	99.4	0.44	0.00
	C	0.075	0.008	-0.087	-0.012	-11.8	-4.9	100.0	99.4	0.57	0.00
T5 Wad algamary 1	A	0.067	0.011	-0.067	-0.010	0.0	1.6	99.9	99.0	0.94	0.00
	B	0.064	0.015	-0.059	-0.012	5.0	3.0	99.8	99.0	0.85	0.00
	C	0.062	0.011	-0.066	-0.009	-3.4	1.5	99.9	99.1	0.86	0.00
T6 Wad algamary 2	A	0.024	0.006	-0.021	-0.003	3.1	3.0	99.9	99.3	0.63	0.00
	B	0.022	0.003	-0.023	-0.003	-0.9	-0.2	99.8	99.2	0.59	0.00
	C	0.026	0.003	-0.027	-0.004	-1.6	-0.7	99.9	99.2	0.75	0.00
T7 Al_deir 1	A	0.081	0.007	-0.090	-0.013	-9.2	-5.4	99.9	98.6	1.25	0.00
	B	0.078	0.021	-0.068	-0.010	10.7	11.0	99.8	99.0	0.85	0.00
	C	0.068	0.012	-0.068	-0.010	0.5	2.1	99.9	99.0	0.89	0.00
T8 Karam al_ashqar	A	0.037	0.006	-0.039	-0.002	-2.0	4.1	99.8	99.4	0.46	0.00
	B	0.043	0.004	-0.044	-0.006	-1.1	-2.2	99.8	99.2	0.52	0.00
	C	0.042	0.010	-0.038	-0.009	4.0	1.7	99.9	99.3	0.60	0.00
T9 Abu al_humas	A	0.081	0.007	-0.090	-0.013	-9.2	-5.4	99.8	98.5	1.26	0.00
	B	0.078	0.021	-0.068	-0.010	10.7	11.0	99.7	98.9	0.85	0.00
	C	0.068	0.012	-0.068	-0.010	0.5	2.1	99.8	98.9	0.89	0.00
T10 Meqtaa' duma	A	0.056	0.015	-0.052	-0.007	3.9	7.2	99.8	99.0	0.74	0.00
	B	0.056	0.010	-0.057	-0.011	-0.7	-1.7	99.7	98.9	0.81	0.00
	C	0.060	0.012	-0.062	-0.013	-1.9	-0.3	99.8	98.9	0.93	0.00
T11 Wad ali	A	0.064	0.009	-0.061	-0.013	2.6	-3.3	99.8	98.8	0.99	0.00
	B	0.056	0.015	-0.053	-0.009	3.8	6.0	99.7	99.0	0.70	0.00
	C	0.055	0.006	-0.060	-0.003	-5.1	2.6	99.9	99.2	0.61	0.00

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CKT / Branch		From-To Bus Flow		To-From Bus Flow		Losses		% Bus Voltage		Vd % Drop in Vmag	Amperes in Buried Winding
ID	Phase	MW	Mvar	MW	Mvar	kW	kvar	From	To		
T12 Aqabit ghararah	A	0.058	0.010	-0.060	-0.009	-2.4	1.7	99.7	98.7	1.09	0.00
	B	0.057	0.012	-0.053	-0.008	3.7	4.2	99.7	98.8	0.87	0.00
	C	0.056	0.010	-0.056	-0.011	0.4	-1.0	99.8	98.7	1.05	0.00
T13 Qata't al_jamal	A	0.031	0.001	-0.040	-0.006	-8.4	-5.0	99.8	99.2	0.58	0.00
	B	0.036	0.009	-0.032	-0.006	4.4	3.0	99.7	99.3	0.43	0.00
	C	0.026	0.009	-0.021	-0.004	4.7	4.9	99.8	99.5	0.32	0.00
T14 Al_markaz	A	0.033	0.005	-0.034	-0.007	-0.9	-1.4	99.8	99.2	0.56	0.00
	B	0.033	0.007	-0.033	-0.005	-0.1	2.2	99.8	99.4	0.39	0.00
	C	0.032	0.006	-0.030	-0.004	1.7	2.2	99.9	99.5	0.39	0.00
T15 Abu hashim	A	0.070	0.013	-0.073	-0.013	-2.8	-0.2	99.8	98.7	1.11	0.00
	B	0.073	0.020	-0.068	-0.019	4.6	0.6	99.7	98.6	1.17	0.00
	C	0.066	0.019	-0.066	-0.013	-0.1	6.5	99.9	98.9	0.97	0.00
T16 Sa'ada	A	0.034	0.002	-0.039	-0.006	-5.3	-3.5	99.7	99.2	0.57	0.00
	B	0.037	0.007	-0.036	-0.005	1.8	2.3	99.7	99.3	0.42	0.00
	C	0.031	0.008	-0.027	-0.004	4.3	4.2	99.8	99.4	0.34	0.00
T17 Al_baladiya	A	0.034	0.002	-0.039	-0.006	-5.3	-3.5	99.9	99.3	0.56	0.00
	B	0.037	0.007	-0.036	-0.005	1.8	2.3	99.8	99.4	0.42	0.00
	C	0.031	0.008	-0.027	-0.004	4.3	4.2	99.9	99.6	0.34	0.00
T18 Al_sheehk	A	0.074	0.016	-0.079	-0.016	-4.9	-0.2	99.8	98.6	1.25	0.00
	B	0.069	0.022	-0.061	-0.012	8.3	9.5	99.8	98.9	0.87	0.00
	C	0.066	0.015	-0.068	-0.017	-1.6	-2.4	99.9	98.7	1.13	0.00
T19 Kerbit alama	A	0.023	0.005	-0.018	-0.003	5.5	2.1	99.8	99.2	0.54	0.00
	B	0.025	-0.003	-0.033	0.000	-8.1	-2.5	99.7	99.1	0.64	0.00
	C	0.030	0.003	-0.027	0.000	3.4	2.7	99.8	99.3	0.54	0.00
T20 Aqabit al_tarsha	A	0.039	0.005	-0.044	-0.009	-5.6	-4.4	100.0	98.6	1.41	0.00
	B	0.041	0.010	-0.040	-0.006	1.8	4.4	99.9	98.9	1.05	0.00
	C	0.035	0.010	-0.030	-0.006	5.1	3.5	100.0	99.1	0.92	0.00
T21 Al_mustashfah	A	0.032	0.002	-0.039	-0.008	-7.4	-6.1	99.7	98.5	1.26	0.00
	B	0.035	0.009	-0.032	-0.005	2.9	4.9	99.7	98.8	0.84	0.00
	C	0.027	0.008	-0.021	-0.004	5.4	4.0	99.8	99.1	0.64	0.00
T22 Da'na	A	0.028	0.009	-0.029	-0.008	-1.1	0.9	99.7	98.7	1.07	0.00
	B	0.030	0.010	-0.030	-0.010	0.2	-0.1	99.7	98.6	1.07	0.00
	C	0.029	0.012	-0.027	-0.010	1.8	1.8	99.8	98.8	1.04	0.00
T23 Kurza	A	0.039	0.005	-0.044	-0.009	-5.6	-4.4	99.7	98.3	1.42	0.00
	B	0.041	0.010	-0.040	-0.006	1.8	4.4	99.7	98.6	1.05	0.00
	C	0.035	0.010	-0.030	-0.006	5.1	3.5	99.8	98.9	0.92	0.00
T24 Al-deire 2	A	0.032	0.002	-0.039	-0.008	-7.4	-6.1	99.9	98.6	1.25	0.00
	B	0.035	0.009	-0.032	-0.005	2.9	4.9	99.8	99.0	0.84	0.00
	C	0.027	0.008	-0.021	-0.004	5.4	4.0	99.9	99.3	0.65	0.00
T25 Rasmi wahab	A	0.028	0.009	-0.029	-0.009	-1.1	0.9	100.0	98.9	1.07	0.00
	B	0.030	0.010	-0.030	-0.010	0.2	-0.1	99.9	98.9	1.07	0.00
	C	0.029	0.012	-0.027	-0.010	1.8	1.8	100.0	99.0	1.04	0.00
T26 Baten alqar'	A	0.037	0.011	-0.035	-0.010	1.8	0.6	99.9	98.6	1.28	0.00
	B	0.035	0.010	-0.035	-0.008	0.0	2.5	99.8	98.8	1.05	0.00
	C	0.036	0.008	-0.037	-0.008	-0.7	0.2	99.9	98.8	1.17	0.00

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CKT / Branch		From-To Bus Flow		To-From Bus Flow		Losses		% Bus Voltage		Vd % Drop in Vmag	Amperes in Buried Winding
ID	Phase	MW	Mvar	MW	Mvar	kW	kvar	From	To		
T27 Al_muntazah	A	0.023	0.003	-0.024	-0.003	-0.7	-0.1	99.9	99.2	0.72	0.00
	B	0.019	0.006	-0.014	-0.002	4.7	4.2	99.8	99.5	0.34	0.00
	C	0.019	0.001	-0.022	-0.003	-3.4	-2.3	99.9	99.3	0.60	0.00
T28 Domet al_wridat	A	0.040	0.009	-0.036	-0.005	3.6	3.8	99.7	98.7	1.05	0.00
	B	0.039	0.005	-0.041	-0.006	-2.0	-0.8	99.7	98.6	1.10	0.00
	C	0.043	0.007	-0.043	-0.006	-0.3	0.7	99.8	98.6	1.18	0.00
T29 Juret al_dama	A	0.046	0.004	-0.042	0.000	4.3	3.7	99.8	98.9	0.91	0.00
	B	0.044	0.000	-0.046	0.000	-1.7	0.1	99.8	98.9	0.91	0.00
	C	0.049	0.001	-0.050	0.000	-1.1	0.6	99.9	98.9	1.02	0.00
T30 Kafar joul	A	0.038	0.001	-0.037	-0.008	1.3	-6.6	99.8	98.6	1.19	0.00
	B	0.030	0.012	-0.023	-0.007	6.4	5.3	99.8	99.0	0.75	0.00
	C	0.025	0.000	-0.031	0.004	-6.8	4.0	99.9	99.4	0.42	0.00
T31 Sam'a	A	0.011	0.002	-0.012	-0.001	-0.7	1.1	99.8	99.5	0.33	0.00
	B	0.013	0.002	-0.013	-0.002	0.1	-0.6	99.7	99.4	0.31	0.00
	C	0.012	0.003	-0.011	-0.002	1.1	0.9	99.9	99.5	0.33	0.00
T32 Khalet al_ayaseh	A	0.015	0.002	-0.016	-0.002	-1.0	0.2	99.8	99.3	0.50	0.00
	B	0.022	0.001	-0.027	-0.004	-4.6	-3.2	99.7	99.0	0.69	0.00
	C	0.020	0.008	-0.014	-0.003	6.2	4.8	99.8	99.4	0.42	0.00
T33 Al_mizrab	A	0.015	0.002	-0.014	-0.003	1.3	-0.6	99.9	99.4	0.48	0.00
	B	0.013	0.003	-0.012	-0.001	0.5	2.0	99.8	99.6	0.25	0.00
	C	0.013	0.000	-0.015	0.000	-1.4	0.1	99.9	99.6	0.31	0.00
T34 Al_shadaqa	A	0.015	0.002	-0.014	-0.003	1.3	-0.6	99.9	99.4	0.48	0.00
	B	0.013	0.003	-0.012	-0.001	0.5	2.0	99.8	99.6	0.25	0.00
	C	0.013	0.000	-0.015	0.000	-1.4	0.1	99.9	99.6	0.31	0.00
T35 Al_shuqfan	A	0.030	0.005	-0.029	-0.005	0.9	-0.1	99.8	98.1	1.71	0.00
	B	0.028	0.006	-0.027	-0.004	1.1	1.6	99.8	98.3	1.49	0.00
	C	0.028	0.004	-0.029	-0.003	-0.6	1.0	99.9	98.4	1.52	0.00
T36 Al_estad	A	0.015	0.002	-0.014	-0.003	1.3	-0.6	99.8	99.3	0.49	0.00
	B	0.013	0.003	-0.012	-0.001	0.5	2.0	99.8	99.5	0.24	0.00
	C	0.013	0.000	-0.015	0.000	-1.4	0.1	99.9	99.6	0.31	0.00
T37 Eshreeteh	A	0.036	0.007	-0.035	-0.005	1.4	1.8	99.8	98.8	1.02	0.00
	B	0.033	0.004	-0.033	0.000	-0.2	4.0	99.7	99.1	0.63	0.00
	C	0.037	0.002	-0.037	-0.005	-0.1	-2.8	99.8	98.8	1.02	0.00
T38 Al_muhtasib	A	0.021	0.007	-0.016	-0.002	4.8	4.3	99.8	99.3	0.50	0.00
	B	0.019	0.002	-0.021	-0.003	-2.0	-1.1	99.7	99.2	0.53	0.00
	C	0.024	0.002	-0.026	-0.004	-2.3	-1.3	99.8	99.1	0.71	0.00
T39 Jammoq	A	0.037	0.004	-0.038	0.000	-1.4	3.6	99.8	98.9	0.84	0.00
	B	0.040	0.001	-0.040	0.000	-0.4	0.7	99.7	98.9	0.78	0.00
	C	0.041	0.005	-0.038	-0.005	3.1	-0.8	99.8	98.8	1.03	0.00
T40 Al_helal	A	0.005	0.001	-0.005	-0.001	0.1	0.0	99.9	99.7	0.20	0.00
	B	0.005	0.001	-0.004	-0.001	0.5	0.6	99.8	99.7	0.09	0.00
	C	0.004	0.001	-0.004	0.000	-0.2	0.6	99.9	99.8	0.11	0.00
T41 Al_muntazah 2	A	0.024	0.004	-0.024	-0.005	-0.2	-0.7	99.9	99.1	0.78	0.00
	B	0.018	0.007	-0.014	-0.002	4.1	4.8	99.8	99.5	0.34	0.00
	C	0.019	0.001	-0.022	-0.003	-3.4	-2.3	99.9	99.3	0.60	0.00

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CKT / Branch		From-To Bus Flow		To-From Bus Flow		Losses		% Bus Voltage		Vd % Drop in Vmag	Amperes in Buried Winding
ID	Phase	MW	Mvar	MW	Mvar	kW	kvar	From	To		
T42 Abu njeem 2	A	0.022	0.001	-0.023	-0.003	-1.3	-2.4	99.9	99.2	0.70	0.00
	B	0.022	0.007	-0.018	-0.006	3.6	0.7	99.8	99.2	0.64	0.00
	C	0.017	0.004	-0.019	0.000	-1.7	3.5	99.9	99.6	0.39	0.00
T43 Al jame'a	A	0.021	0.007	-0.017	-0.002	3.9	4.8	99.8	99.2	0.53	0.00
	B	0.020	0.002	-0.023	-0.003	-2.3	-1.4	99.7	99.1	0.58	0.00
	C	0.025	0.004	-0.026	-0.005	-1.0	-1.4	99.8	99.0	0.80	0.00
T44 Alghwla	A	0.011	0.001	-0.013	0.000	-1.4	0.6	99.8	99.5	0.32	0.00
	B	0.012	0.001	-0.011	0.000	1.0	1.0	99.8	99.6	0.18	0.00
	C	0.011	0.001	-0.011	-0.002	0.8	-0.1	99.9	99.6	0.29	0.00
T45 Masafi	A	0.039	0.006	-0.042	-0.006	-3.0	0.0	99.8	98.5	1.23	0.00
	B	0.036	0.010	-0.030	-0.004	5.7	5.4	99.7	98.9	0.79	0.00
	C	0.034	0.005	-0.036	-0.007	-1.5	-2.1	99.8	98.7	1.09	0.00
T46 Al_jebreni	A	0.037	0.016	-0.040	-0.018	-2.7	-2.5	99.8	98.0	1.78	0.00
	B	0.038	0.017	-0.038	-0.013	-0.5	4.5	99.7	98.3	1.37	0.00
	C	0.036	0.017	-0.032	-0.015	4.4	1.6	99.8	98.4	1.41	0.00
T47 Abu_njeem 1	A	0.014	0.003	-0.013	-0.002	1.5	1.5	99.9	99.2	0.74	0.00
	B	0.012	0.001	-0.013	0.000	-0.4	1.3	99.9	99.3	0.52	0.00
	C	0.015	0.001	-0.016	-0.002	-0.7	-1.6	100.0	99.1	0.85	0.00
T48 Inab al_kabeer	A	0.012	0.001	-0.013	-0.002	-1.5	-0.9	99.9	99.1	0.78	0.00
	B	0.013	0.002	-0.012	-0.002	0.6	0.8	99.8	99.2	0.62	0.00
	C	0.011	0.003	-0.010	-0.001	1.2	1.2	99.9	99.4	0.53	0.00
T49 Shweki	A	0.012	0.001	-0.013	-0.002	-1.5	-0.9	99.9	99.1	0.78	0.00
	B	0.013	0.002	-0.012	-0.002	0.6	0.8	99.8	99.2	0.63	0.00
	C	0.011	0.003	-0.010	-0.001	1.2	1.2	99.9	99.4	0.53	0.00
T50 Al-baha	A	0.038	0.007	-0.038	-0.005	0.7	1.2	99.9	97.7	2.17	0.00
	B	0.039	0.006	-0.039	-0.006	0.0	0.8	99.8	97.6	2.17	0.00
	C	0.039	0.007	-0.038	-0.005	1.6	2.1	99.9	97.8	2.10	0.00
T51 Inab al_sagher	A	0.019	0.006	-0.019	-0.005	-0.4	0.5	99.8	98.5	1.31	0.00
	B	0.018	0.008	-0.015	-0.007	2.6	1.1	99.8	98.7	1.11	0.00
	C	0.017	0.006	-0.019	-0.006	-1.5	0.0	99.9	98.7	1.24	0.00
T52 Bank al_eskan	A	0.014	0.003	-0.013	-0.002	1.5	1.5	99.8	99.1	0.75	0.00
	B	0.012	0.001	-0.013	0.000	-0.4	1.3	99.8	99.3	0.52	0.00
	C	0.015	0.001	-0.016	-0.002	-0.7	-1.6	99.9	99.0	0.85	0.00
T53 Al_tork	A	0.031	0.023	-0.032	-0.019	-1.8	4.2	99.7	99.2	0.58	0.00
	B	0.036	0.023	-0.036	-0.026	0.5	-3.1	99.7	99.0	0.63	0.00
	C	0.034	0.028	-0.032	-0.025	2.3	3.0	99.8	99.1	0.64	0.00
T54 Wad algamary 3	A	0.014	0.003	-0.013	-0.002	1.5	1.5	99.9	99.2	0.74	0.00
	B	0.012	0.001	-0.013	0.000	-0.4	1.3	99.9	99.3	0.52	0.00
	C	0.015	0.001	-0.016	-0.002	-0.7	-1.6	100.0	99.1	0.85	0.00
T55 Mana'	A	0.020	0.002	-0.021	-0.003	-1.6	-0.8	99.8	99.1	0.64	0.00
	B	0.018	0.005	-0.015	-0.002	3.0	2.9	99.7	99.4	0.36	0.00
	C	0.016	0.002	-0.017	-0.002	-1.0	-0.4	99.8	99.4	0.47	0.00
T56 Al jebreny step up	A	0.127	0.061	-0.125	-0.057	2.2	4.5	99.6	99.8	0.18	0.00
	B	0.126	0.062	-0.124	-0.058	2.1	4.0	99.6	99.7	0.09	0.00
	C	0.127	0.061	-0.124	-0.057	2.7	3.9	99.7	99.8	0.13	0.00

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For branches below center-tap transformers, Phases A, B, and C correspond to (1), (2), and (N) respectively.

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