

Project:
Location:
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Filename: unbalance

ETAP
12.6.0H

Study Case: ULF

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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	0.077	0.030	-0.077	-0.030	0.0	0.0	99.9	99.9	0.00	0.00
	B	0.072	0.033	-0.072	-0.033	0.0	0.0	99.8	99.8	0.00	0.00
	C	0.073	0.027	-0.073	-0.027	0.0	0.0	99.9	99.9	0.00	0.00
C56	A	0.090	0.031	-0.090	-0.031	0.0	0.0	99.9	99.9	0.00	0.00
	B	0.079	0.035	-0.079	-0.035	0.0	0.0	99.9	99.9	0.00	0.00
	C	0.081	0.024	-0.081	-0.024	0.0	0.0	99.9	99.9	0.00	0.00
C59	A	0.294	0.115	-0.294	-0.115	0.0	0.0	100.0	99.9	0.00	0.00
	B	0.303	0.139	-0.303	-0.139	0.0	0.0	99.9	99.9	0.00	0.00
	C	0.278	0.135	-0.278	-0.135	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	99.9	99.9	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
C61	A	0.358	0.150	-0.358	-0.150	0.0	0.0	100.0	100.0	0.00	0.00
	B	0.351	0.176	-0.351	-0.176	0.0	0.0	100.0	100.0	0.00	0.00
	C	0.332	0.157	-0.332	-0.157	0.0	0.0	100.0	100.0	0.00	0.00
C80	A	0.046	0.018	-0.046	-0.018	0.0	0.0	99.9	99.9	0.00	0.00
	B	0.046	0.017	-0.046	-0.017	0.0	0.0	99.9	99.9	0.00	0.00
	C	0.047	0.018	-0.047	-0.018	0.0	0.0	99.9	99.9	0.00	0.00
C96	A	0.698	0.285	-0.698	-0.285	0.0	0.0	100.0	100.0	0.01	0.00
	B	0.683	0.295	-0.683	-0.294	0.0	0.0	100.0	100.0	0.01	0.00
	C	0.682	0.277	-0.682	-0.277	0.0	0.0	100.0	100.0	0.01	0.00
C97	A	0.493	0.208	-0.493	-0.208	0.0	0.0	99.9	99.9	0.01	0.00
	B	0.491	0.215	-0.491	-0.215	0.0	0.0	99.9	99.9	0.01	0.00
	C	0.487	0.210	-0.487	-0.210	0.0	0.0	99.9	99.9	0.01	0.00
C100	A	0.023	0.007	-0.023	-0.007	0.0	0.0	99.9	99.9	0.00	0.00
	B	0.024	0.007	-0.024	-0.007	0.0	0.0	99.9	99.9	0.00	0.00
	C	0.023	0.008	-0.023	-0.008	0.0	0.0	99.9	99.9	0.00	0.00
C107	A	0.027	0.009	-0.027	-0.009	0.0	0.0	99.8	99.8	0.00	0.00
	B	0.030	0.010	-0.030	-0.010	0.0	0.0	99.8	99.8	0.00	0.00
	C	0.028	0.012	-0.028	-0.012	0.0	0.0	99.8	99.8	0.00	0.00
C117	A	0.080	0.043	-0.080	-0.043	0.0	0.0	99.8	99.8	0.00	0.00
	B	0.084	0.048	-0.084	-0.048	0.0	0.0	99.8	99.8	0.00	0.00
	C	0.077	0.048	-0.077	-0.048	0.0	0.0	99.8	99.8	0.00	0.00
C120	A	0.404	0.172	-0.403	-0.172	0.0	0.0	99.9	99.9	0.01	0.00
	B	0.410	0.176	-0.410	-0.176	0.0	0.0	99.9	99.9	0.01	0.00
	C	0.404	0.180	-0.404	-0.180	0.0	0.0	99.9	99.9	0.01	0.00
C128	A	0.636	0.260	-0.636	-0.260	0.1	0.0	99.9	99.9	0.01	0.00
	B	0.622	0.269	-0.622	-0.269	0.1	0.0	99.9	99.9	0.01	0.00
	C	0.621	0.253	-0.621	-0.253	0.1	0.0	99.9	99.9	0.01	0.00
C160	A	0.499	0.211	-0.499	-0.211	0.0	0.0	99.9	99.9	0.01	0.00
	B	0.496	0.217	-0.496	-0.217	0.0	0.0	99.9	99.9	0.01	0.00
	C	0.492	0.212	-0.492	-0.211	0.0	0.0	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	0.590	0.242	-0.589	-0.242	0.1	0.0	99.9	99.9	0.01	0.00
	B	0.575	0.252	-0.575	-0.252	0.1	0.0	99.9	99.9	0.01	0.00
	C	0.574	0.235	-0.574	-0.235	0.1	0.0	99.9	99.9	0.01	0.00
C163	A	0.260	0.118	-0.260	-0.118	0.0	0.0	99.9	99.9	0.00	0.00
	B	0.273	0.118	-0.273	-0.118	0.0	0.0	99.8	99.8	0.01	0.00
	C	0.267	0.129	-0.267	-0.129	0.0	0.0	99.9	99.9	0.01	0.00
C191	A	0.499	0.211	-0.499	-0.211	0.0	0.0	99.9	99.9	0.01	0.00
	B	0.496	0.217	-0.496	-0.217	0.0	0.0	99.9	99.9	0.01	0.00
	C	0.492	0.212	-0.492	-0.212	0.0	0.0	99.9	99.9	0.01	0.00
C193	A	0.008	0.006	-0.008	-0.006	0.0	0.0	99.9	99.9	0.00	0.00
	B	0.007	0.004	-0.007	-0.004	0.0	0.0	99.9	99.9	0.00	0.00
	C	0.009	0.004	-0.009	-0.004	0.0	0.0	99.9	99.9	0.00	0.00
C203	A	0.110	0.050	-0.110	-0.050	0.0	0.0	99.8	99.8	0.00	0.00
	B	0.116	0.041	-0.116	-0.041	0.0	0.0	99.8	99.8	0.00	0.00
	C	0.121	0.051	-0.121	-0.051	0.0	0.0	99.8	99.8	0.00	0.00
C216	A	0.403	0.172	-0.403	-0.172	0.0	0.0	99.9	99.9	0.01	0.00
	B	0.410	0.176	-0.410	-0.176	0.0	0.0	99.9	99.9	0.01	0.00
	C	0.404	0.180	-0.404	-0.180	0.0	0.0	99.9	99.9	0.01	0.00
C246	A	0.655	0.265	-0.655	-0.265	0.1	0.1	100.0	99.9	0.02	0.00
	B	0.642	0.276	-0.641	-0.276	0.1	0.1	99.9	99.9	0.02	0.00
	C	0.639	0.260	-0.639	-0.259	0.1	0.1	100.0	99.9	0.02	0.00
C280	A	0.019	0.006	-0.019	-0.006	0.0	0.0	99.9	99.9	0.00	0.00
	B	0.016	0.005	-0.016	-0.005	0.0	0.0	99.8	99.8	0.00	0.00
	C	0.018	0.003	-0.018	-0.003	0.0	0.0	99.9	99.9	0.00	0.00
C319	A	0.020	0.025	-0.020	-0.025	0.0	0.0	99.8	99.8	0.00	0.00
	B	0.026	0.024	-0.026	-0.024	0.0	0.0	99.8	99.8	0.00	0.00
	C	0.024	0.029	-0.024	-0.029	0.0	0.0	99.8	99.8	0.00	0.00
C322	A	0.110	0.050	-0.110	-0.050	0.0	0.0	99.8	99.8	0.00	0.00
	B	0.116	0.041	-0.116	-0.041	0.0	0.0	99.8	99.8	0.00	0.00
	C	0.121	0.051	-0.121	-0.051	0.0	0.0	99.8	99.8	0.00	0.00
C330	A	0.009	0.005	-0.009	-0.005	0.0	0.0	100.0	100.0	0.00	0.00
	B	0.009	0.004	-0.009	-0.004	0.0	0.0	99.9	99.9	0.00	0.00
	C	0.010	0.005	-0.010	-0.005	0.0	0.0	100.0	100.0	0.00	0.00
C352	A	0.161	0.058	-0.161	-0.058	0.0	0.0	99.9	99.9	0.01	0.00
	B	0.174	0.075	-0.174	-0.075	0.0	0.0	99.9	99.9	0.01	0.00
	C	0.153	0.077	-0.153	-0.077	0.0	0.0	99.9	99.9	0.01	0.00
C361	A	0.341	0.147	-0.341	-0.147	0.0	0.0	99.9	99.9	0.01	0.00
	B	0.349	0.150	-0.349	-0.150	0.0	0.0	99.9	99.8	0.01	0.00
	C	0.343	0.155	-0.343	-0.155	0.0	0.0	99.9	99.9	0.01	0.00
C365	A	0.241	0.113	-0.241	-0.113	0.0	0.0	99.9	99.8	0.01	0.00
	B	0.254	0.112	-0.254	-0.112	0.0	0.0	99.8	99.8	0.01	0.00
	C	0.249	0.124	-0.249	-0.124	0.0	0.0	99.9	99.9	0.01	0.00
C368	A	0.039	0.017	-0.039	-0.017	0.0	0.0	99.9	99.9	0.00	0.00
	B	0.038	0.019	-0.038	-0.019	0.0	0.0	99.8	99.8	0.00	0.00
	C	0.037	0.017	-0.037	-0.017	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	0.087	0.047	-0.087	-0.047	0.0	0.0	99.8	99.8	0.00	0.00
	B	0.092	0.053	-0.092	-0.053	0.0	0.0	99.8	99.8	0.00	0.00
	C	0.085	0.054	-0.085	-0.054	0.0	0.0	99.8	99.8	0.00	0.00
C409	A	0.019	0.005	-0.019	-0.005	0.0	0.0	99.9	99.9	0.00	0.00
	B	0.018	0.005	-0.018	-0.005	0.0	0.0	99.8	99.8	0.00	0.00
	C	0.018	0.005	-0.018	-0.005	0.0	0.0	99.9	99.9	0.00	0.00
C419	A	0.019	0.006	-0.019	-0.006	0.0	0.0	99.9	99.9	0.00	0.00
	B	0.016	0.005	-0.016	-0.005	0.0	0.0	99.8	99.8	0.00	0.00
	C	0.018	0.003	-0.018	-0.003	0.0	0.0	99.9	99.9	0.00	0.00
C422	A	0.040	0.020	-0.040	-0.020	0.0	0.0	99.9	99.9	0.00	0.00
	B	0.040	0.020	-0.040	-0.020	0.0	0.0	99.9	99.9	0.00	0.00
	C	0.040	0.020	-0.040	-0.020	0.0	0.0	99.9	99.9	0.00	0.00
C440	A	0.004	0.003	-0.004	-0.003	0.0	0.0	99.9	99.9	0.00	0.00
	B	0.005	0.002	-0.005	-0.002	0.0	0.0	99.8	99.8	0.00	0.00
	C	0.006	0.003	-0.006	-0.003	0.0	0.0	99.9	99.9	0.00	0.00
C450	A	0.022	0.012	-0.022	-0.012	0.0	0.0	99.9	99.9	0.00	0.00
	B	0.026	0.011	-0.026	-0.011	0.0	0.0	99.9	99.9	0.00	0.00
	C	0.025	0.014	-0.025	-0.014	0.0	0.0	99.9	99.9	0.00	0.00
C.450	A	0.021	0.012	-0.021	-0.012	0.0	0.0	99.8	99.8	0.00	0.00
	B	0.022	0.011	-0.022	-0.011	0.0	0.0	99.8	99.8	0.00	0.00
	C	0.023	0.013	-0.023	-0.013	0.0	0.0	99.8	99.8	0.00	0.00
C461	A	0.006	0.003	-0.006	-0.003	0.0	0.0	99.8	99.8	0.00	0.00
	B	0.009	0.002	-0.009	-0.002	0.0	0.0	99.8	99.8	0.00	0.00
	C	0.009	0.005	-0.009	-0.005	0.0	0.0	99.8	99.8	0.00	0.00
C462	A	0.025	0.011	-0.025	-0.011	0.0	0.0	99.9	99.9	0.00	0.00
	B	0.021	0.010	-0.021	-0.010	0.0	0.0	99.8	99.8	0.00	0.00
	C	0.023	0.007	-0.023	-0.007	0.0	0.0	99.9	99.9	0.00	0.00
C463	A	0.006	0.002	-0.006	-0.002	0.0	0.0	99.9	99.9	0.00	0.00
	B	0.005	0.003	-0.005	-0.003	0.0	0.0	99.9	99.9	0.00	0.00
	C	0.005	0.002	-0.005	-0.002	0.0	0.0	100.0	100.0	0.00	0.00
C473	A	0.673	0.277	-0.673	-0.276	0.2	0.2	100.0	100.0	0.04	0.00
	B	0.660	0.285	-0.659	-0.285	0.2	0.1	100.0	99.9	0.04	0.00
	C	0.659	0.270	-0.659	-0.270	0.2	0.1	100.0	100.0	0.04	0.00
C476	A	0.041	0.013	-0.041	-0.013	0.0	0.0	99.8	99.8	0.00	0.00
	B	0.038	0.018	-0.038	-0.018	0.0	0.0	99.8	99.8	0.00	0.00
	C	0.036	0.013	-0.036	-0.013	0.0	0.0	99.8	99.8	0.00	0.00
C514	A	0.057	0.025	-0.057	-0.025	0.0	0.0	99.9	99.9	0.00	0.00
	B	0.056	0.028	-0.056	-0.028	0.0	0.0	99.9	99.9	0.00	0.00
	C	0.054	0.025	-0.054	-0.025	0.0	0.0	100.0	100.0	0.00	0.00
C517	A	0.042	0.024	-0.042	-0.024	0.0	0.0	99.8	99.8	0.00	0.00
	B	0.042	0.018	-0.042	-0.018	0.0	0.0	99.8	99.8	0.00	0.00
	C	0.047	0.022	-0.047	-0.022	0.0	0.0	99.8	99.8	0.00	0.00
C518	A	0.067	0.032	-0.067	-0.032	0.0	0.0	99.8	99.8	0.00	0.00
	B	0.066	0.028	-0.066	-0.028	0.0	0.0	99.8	99.8	0.00	0.00
	C	0.071	0.029	-0.071	-0.029	0.0	0.0	99.8	99.8	0.00	0.00

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ID	Phase	MW	Mvar	MW	Mvar	kW	kvar	From	To		
C526	A	0.052	0.023	-0.052	-0.023	0.0	0.0	99.9	99.9	0.00	0.00
	B	0.051	0.025	-0.051	-0.025	0.0	0.0	99.9	99.9	0.00	0.00
	C	0.049	0.024	-0.049	-0.024	0.0	0.0	100.0	99.9	0.00	0.00
C558	A	0.014	0.005	-0.014	-0.005	0.0	0.0	99.9	99.9	0.00	0.00
	B	0.014	0.005	-0.014	-0.005	0.0	0.0	99.9	99.9	0.00	0.00
	C	0.013	0.005	-0.013	-0.005	0.0	0.0	99.9	99.9	0.00	0.00
C577	A	0.095	0.041	-0.094	-0.041	0.0	0.0	99.8	99.8	0.01	0.00
	B	0.097	0.037	-0.097	-0.037	0.0	0.0	99.8	99.8	0.01	0.00
	C	0.099	0.041	-0.099	-0.041	0.0	0.0	99.8	99.8	0.01	0.00
C587	A	0.024	0.008	-0.024	-0.008	0.0	0.0	99.8	99.8	0.00	0.00
	B	0.021	0.008	-0.021	-0.008	0.0	0.0	99.8	99.8	0.00	0.00
	C	0.023	0.006	-0.023	-0.006	0.0	0.0	99.8	99.8	0.00	0.00
C603	A	0.224	0.108	-0.224	-0.108	0.0	0.0	99.8	99.8	0.02	0.00
	B	0.239	0.104	-0.239	-0.104	0.0	0.0	99.8	99.8	0.02	0.00
	C	0.234	0.119	-0.234	-0.119	0.0	0.0	99.9	99.8	0.02	0.00
C622	A	0.007	0.005	-0.007	-0.005	0.0	0.0	99.9	99.9	0.00	0.00
	B	0.008	0.005	-0.008	-0.005	0.0	0.0	99.9	99.9	0.00	0.00
	C	0.008	0.006	-0.008	-0.006	0.0	0.0	99.9	99.9	0.00	0.00
C727	A	0.023	0.007	-0.023	-0.007	0.0	0.0	99.9	99.9	0.00	0.00
	B	0.024	0.007	-0.024	-0.007	0.0	0.0	99.9	99.9	0.00	0.00
	C	0.023	0.008	-0.023	-0.008	0.0	0.0	99.9	99.9	0.00	0.00
C728	A	0.042	0.015	-0.042	-0.015	0.0	0.0	99.9	99.9	0.00	0.00
	B	0.038	0.020	-0.038	-0.020	0.0	0.0	99.8	99.8	0.00	0.00
	C	0.036	0.014	-0.036	-0.014	0.0	0.0	99.9	99.9	0.00	0.00
C806	A	0.148	0.053	-0.148	-0.053	0.0	0.0	99.9	99.9	0.01	0.00
	B	0.160	0.070	-0.160	-0.070	0.0	0.0	99.9	99.9	0.01	0.00
	C	0.140	0.072	-0.140	-0.072	0.0	0.0	99.9	99.9	0.01	0.00
C811	A	0.038	0.013	-0.038	-0.013	0.0	0.0	99.9	99.9	0.00	0.00
	B	0.034	0.014	-0.034	-0.014	0.0	0.0	99.8	99.8	0.00	0.00
	C	0.036	0.010	-0.036	-0.010	0.0	0.0	99.9	99.9	0.00	0.00
C815	A	0.033	0.019	-0.033	-0.019	0.0	0.0	99.8	99.8	0.00	0.00
	B	0.034	0.014	-0.034	-0.014	0.0	0.0	99.8	99.8	0.00	0.00
	C	0.038	0.017	-0.038	-0.017	0.0	0.0	99.8	99.8	0.00	0.00
C880	A	0.021	0.012	-0.021	-0.012	0.0	0.0	99.8	99.8	0.00	0.00
	B	0.022	0.011	-0.022	-0.011	0.0	0.0	99.8	99.8	0.00	0.00
	C	0.023	0.013	-0.023	-0.013	0.0	0.0	99.8	99.8	0.00	0.00
Co14	A	0.000	0.000	0.000	0.000	0.0	0.0	99.9	99.9	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	0.020	0.025	-0.020	-0.025	0.0	0.0	99.8	99.8	0.00	0.00
	B	0.026	0.024	-0.026	-0.024	0.0	0.0	99.8	99.8	0.00	0.00
	C	0.024	0.029	-0.024	-0.029	0.0	0.0	99.8	99.8	0.00	0.00
Co58	A	0.032	0.014	-0.032	-0.014	0.0	0.0	99.9	99.9	0.00	0.00
	B	0.029	0.016	-0.029	-0.016	0.0	0.0	99.9	99.9	0.00	0.00
	C	0.030	0.012	-0.030	-0.012	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	0.237	0.090	-0.237	-0.090	0.0	0.0	99.9	99.9	0.00	0.00
	B	0.247	0.111	-0.247	-0.111	0.0	0.0	99.9	99.9	0.00	0.00
	C	0.224	0.109	-0.224	-0.109	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	99.9	99.9	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
Co261	A	0.010	0.004	-0.010	-0.004	0.0	0.0	99.9	99.9	0.00	0.00
	B	0.009	0.005	-0.009	-0.005	0.0	0.0	99.8	99.8	0.00	0.00
	C	0.008	0.003	-0.008	-0.003	0.0	0.0	99.9	99.9	0.00	0.00
Co294	A	0.024	0.012	-0.024	-0.012	0.0	0.0	99.9	99.9	0.00	0.00
	B	0.022	0.011	-0.022	-0.011	0.0	0.0	99.9	99.9	0.00	0.00
	C	0.023	0.010	-0.023	-0.010	0.0	0.0	99.9	99.9	0.00	0.00
Co528	A	0.005	0.002	-0.005	-0.002	0.0	0.0	99.9	99.9	0.00	0.00
	B	0.004	0.002	-0.004	-0.002	0.0	0.0	99.8	99.8	0.00	0.00
	C	0.004	0.001	-0.004	-0.001	0.0	0.0	99.9	99.9	0.00	0.00
Co600	A	0.237	0.090	-0.237	-0.090	0.0	0.0	99.9	99.9	0.01	0.00
	B	0.247	0.111	-0.247	-0.111	0.0	0.0	99.9	99.9	0.01	0.00
	C	0.224	0.109	-0.224	-0.109	0.0	0.0	100.0	99.9	0.01	0.00
Co645	A	0.010	0.004	-0.010	-0.004	0.0	0.0	99.9	99.9	0.00	0.00
	B	0.009	0.005	-0.009	-0.005	0.0	0.0	99.8	99.8	0.00	0.00
	C	0.008	0.003	-0.008	-0.003	0.0	0.0	99.9	99.9	0.00	0.00
Co999	A	0.030	0.013	-0.030	-0.013	0.0	0.0	99.9	99.9	0.00	0.00
	B	0.027	0.014	-0.027	-0.014	0.0	0.0	99.9	99.9	0.00	0.00
	C	0.028	0.012	-0.028	-0.012	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	99.9	99.9	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
D240	A	0.004	0.002	-0.004	-0.002	0.0	0.0	99.9	99.9	0.00	0.00
	B	0.005	0.002	-0.005	-0.002	0.0	0.0	99.9	99.9	0.00	0.00
	C	0.005	0.003	-0.005	-0.003	0.0	0.0	99.9	99.9	0.00	0.00
D256	A	0.004	0.002	-0.004	-0.002	0.0	0.0	99.9	99.9	0.00	0.00
	B	0.005	0.002	-0.005	-0.002	0.0	0.0	99.9	99.9	0.00	0.00
	C	0.005	0.003	-0.005	-0.003	0.0	0.0	99.9	99.9	0.00	0.00
D276	A	0.004	0.002	-0.004	-0.002	0.0	0.0	99.9	99.9	0.00	0.00
	B	0.005	0.002	-0.005	-0.002	0.0	0.0	99.9	99.9	0.00	0.00
	C	0.005	0.003	-0.005	-0.003	0.0	0.0	99.9	99.9	0.00	0.00
D634	A	0.016	0.006	-0.016	-0.006	0.0	0.0	99.9	99.9	0.00	0.00
	B	0.015	0.007	-0.015	-0.007	0.0	0.0	99.9	99.9	0.00	0.00
	C	0.015	0.006	-0.015	-0.006	0.0	0.0	99.9	99.9	0.00	0.00
D655	A	0.024	0.012	-0.024	-0.012	0.0	0.0	99.9	99.9	0.00	0.00
	B	0.022	0.011	-0.022	-0.011	0.0	0.0	99.9	99.9	0.00	0.00
	C	0.023	0.010	-0.023	-0.010	0.0	0.0	99.9	99.9	0.00	0.00
D711	A	0.024	0.012	-0.024	-0.012	0.0	0.0	99.9	99.9	0.00	0.00
	B	0.022	0.011	-0.022	-0.011	0.0	0.0	99.9	99.9	0.00	0.00
	C	0.023	0.010	-0.023	-0.010	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	0.004	0.002	-0.004	-0.002	0.0	0.0	99.9	99.9	0.00	0.00
	B	0.005	0.002	-0.005	-0.002	0.0	0.0	99.9	99.9	0.00	0.00
	C	0.005	0.003	-0.005	-0.003	0.0	0.0	99.9	99.9	0.00	0.00
R10	A	0.005	0.002	-0.005	-0.002	0.0	0.0	99.9	99.9	0.00	0.00
	B	0.004	0.002	-0.004	-0.002	0.0	0.0	99.8	99.8	0.00	0.00
	C	0.004	0.001	-0.004	-0.001	0.0	0.0	99.9	99.9	0.00	0.00
R36	A	1.056	0.435	-1.056	-0.435	0.1	0.0	100.0	100.0	0.01	0.00
	B	1.034	0.471	-1.034	-0.471	0.1	0.0	100.0	100.0	0.01	0.00
	C	1.014	0.434	-1.014	-0.434	0.1	0.0	100.0	100.0	0.01	0.00
R45	A	0.077	0.030	-0.077	-0.030	0.0	0.0	99.9	99.9	0.00	0.00
	B	0.072	0.033	-0.072	-0.033	0.0	0.0	99.8	99.8	0.00	0.00
	C	0.073	0.027	-0.073	-0.027	0.0	0.0	99.9	99.9	0.00	0.00
R106	A	0.358	0.150	-0.358	-0.150	0.0	0.0	100.0	100.0	0.01	0.00
	B	0.351	0.176	-0.351	-0.176	0.0	0.0	100.0	100.0	0.01	0.00
	C	0.332	0.157	-0.332	-0.157	0.0	0.0	100.0	100.0	0.01	0.00
R150	A	0.077	0.030	-0.077	-0.030	0.0	0.0	99.9	99.9	0.00	0.00
	B	0.072	0.033	-0.072	-0.033	0.0	0.0	99.9	99.8	0.00	0.00
	C	0.073	0.027	-0.073	-0.027	0.0	0.0	99.9	99.9	0.00	0.00
R164	A	0.180	0.064	-0.180	-0.064	0.0	0.0	99.9	99.9	0.00	0.00
	B	0.192	0.082	-0.192	-0.082	0.0	0.0	99.9	99.9	0.01	0.00
	C	0.170	0.083	-0.170	-0.083	0.0	0.0	99.9	99.9	0.00	0.00
R190	A	0.341	0.143	-0.341	-0.143	0.0	0.0	100.0	100.0	0.01	0.00
	B	0.338	0.166	-0.338	-0.166	0.0	0.0	100.0	100.0	0.01	0.00
	C	0.320	0.153	-0.320	-0.153	0.0	0.0	100.0	100.0	0.01	0.00
R380	A	0.077	0.030	-0.077	-0.030	0.0	0.0	99.9	99.9	0.01	0.00
	B	0.072	0.033	-0.072	-0.033	0.0	0.0	99.8	99.8	0.01	0.00
	C	0.073	0.027	-0.073	-0.027	0.0	0.0	99.9	99.9	0.01	0.00
R410	A	0.004	0.002	-0.004	-0.002	0.0	0.0	99.9	99.9	0.00	0.00
	B	0.005	0.002	-0.005	-0.002	0.0	0.0	99.9	99.9	0.00	0.00
	C	0.005	0.003	-0.005	-0.003	0.0	0.0	99.9	99.9	0.00	0.00
R436	A	0.341	0.143	-0.341	-0.143	0.1	0.1	100.0	100.0	0.03	0.00
	B	0.338	0.166	-0.338	-0.166	0.1	0.1	100.0	99.9	0.03	0.00
	C	0.320	0.153	-0.320	-0.153	0.1	0.1	100.0	100.0	0.03	0.00
R455	A	0.008	0.006	-0.008	-0.006	0.0	0.0	99.9	99.9	0.00	0.00
	B	0.007	0.004	-0.007	-0.004	0.0	0.0	99.9	99.9	0.00	0.00
	C	0.009	0.004	-0.009	-0.004	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	99.8	99.8	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	0.180	0.064	-0.180	-0.064	0.0	0.0	99.9	99.9	0.02	0.00
	B	0.192	0.082	-0.192	-0.082	0.0	0.0	99.9	99.9	0.03	0.00
	C	0.170	0.083	-0.170	-0.083	0.0	0.0	99.9	99.9	0.02	0.00
R803	A	0.025	0.008	-0.025	-0.008	0.0	0.0	99.8	99.8	0.00	0.00
	B	0.024	0.009	-0.024	-0.009	0.0	0.0	99.8	99.8	0.00	0.00
	C	0.024	0.007	-0.024	-0.007	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	0.006	0.002	-0.006	-0.002	0.0	0.0	99.9	99.9	0.00	0.00
	B	0.006	0.003	-0.006	-0.003	0.0	0.0	99.9	99.9	0.00	0.00
	C	0.005	0.002	-0.005	-0.002	0.0	0.0	99.9	99.9	0.00	0.00
R950	A	0.023	0.007	-0.023	-0.007	0.0	0.0	99.9	99.9	0.00	0.00
	B	0.024	0.007	-0.024	-0.007	0.0	0.0	99.9	99.9	0.00	0.00
	C	0.023	0.008	-0.023	-0.008	0.0	0.0	99.9	99.9	0.00	0.00
R1435	A	0.055	0.018	-0.055	-0.018	0.0	0.0	99.9	99.9	0.01	0.00
	B	0.065	0.033	-0.065	-0.033	0.0	0.0	99.9	99.8	0.01	0.00
	C	0.047	0.034	-0.047	-0.034	0.0	0.0	99.9	99.9	0.01	0.00
R1499	A	0.004	0.002	-0.004	-0.002	0.0	0.0	99.9	99.9	0.00	0.00
	B	0.005	0.002	-0.005	-0.002	0.0	0.0	99.9	99.9	0.00	0.00
	C	0.005	0.003	-0.005	-0.003	0.0	0.0	99.9	99.9	0.00	0.00
T1 Al-masjid Al_kaber	A	0.067	0.025	-0.068	-0.027	-0.1	-2.8	99.9	99.1	0.83	0.00
	B	0.055	0.028	-0.050	-0.014	5.4	13.4	99.9	99.4	0.47	0.00
	C	0.058	0.016	-0.063	-0.021	-4.2	-5.0	99.9	99.3	0.65	0.00
T2 Mothalath Al_borg	A	0.009	0.006	-0.008	-0.004	0.9	2.0	100.0	99.8	0.14	0.00
	B	0.009	0.005	-0.009	-0.004	-0.1	0.6	99.9	99.8	0.12	0.00
	C	0.010	0.005	-0.010	-0.005	-0.1	0.6	100.0	99.8	0.14	0.00
T3 Maskaneh	A	0.067	0.024	-0.068	-0.027	-0.1	-2.8	99.9	99.1	0.83	0.00
	B	0.055	0.028	-0.050	-0.014	5.4	13.4	99.9	99.4	0.47	0.00
	C	0.058	0.016	-0.063	-0.021	-4.2	-5.0	99.9	99.3	0.65	0.00
T4 Bear mtawi'	A	0.047	0.028	-0.037	-0.025	10.0	3.0	100.0	99.3	0.68	0.00
	B	0.035	0.028	-0.033	-0.025	2.1	2.7	99.9	99.3	0.63	0.00
	C	0.042	0.018	-0.053	-0.019	-11.1	-1.2	100.0	99.4	0.58	0.00
T5 Wad algamary 1	A	0.032	0.014	-0.034	-0.014	-1.8	0.3	99.9	99.2	0.76	0.00
	B	0.033	0.016	-0.032	-0.014	1.3	1.8	99.9	99.2	0.71	0.00
	C	0.032	0.016	-0.030	-0.015	1.3	1.0	99.9	99.2	0.73	0.00
T6 Wad algamary 2	A	0.008	0.006	-0.007	-0.004	1.0	1.6	99.9	99.6	0.36	0.00
	B	0.007	0.004	-0.007	-0.003	0.0	0.9	99.9	99.6	0.29	0.00
	C	0.009	0.004	-0.009	-0.005	-0.6	-1.1	99.9	99.5	0.43	0.00
T7 Al_deir 1	A	0.039	0.014	-0.038	-0.011	1.0	2.5	99.9	99.2	0.70	0.00
	B	0.038	0.013	-0.038	-0.011	0.6	1.3	99.9	99.2	0.67	0.00
	C	0.040	0.012	-0.040	-0.013	-0.7	-0.2	99.9	99.2	0.74	0.00
T8 Karam al_ashqar	A	0.015	0.005	-0.019	-0.002	-3.5	3.2	99.9	99.6	0.24	0.00
	B	0.023	0.004	-0.023	-0.008	0.0	-3.6	99.9	99.4	0.44	0.00
	C	0.019	0.011	-0.015	-0.009	4.2	2.8	99.9	99.5	0.40	0.00
T9 Abu al_humas	A	0.039	0.014	-0.038	-0.011	1.0	2.5	99.9	99.2	0.71	0.00
	B	0.038	0.013	-0.038	-0.011	0.6	1.3	99.8	99.2	0.67	0.00
	C	0.040	0.012	-0.040	-0.013	-0.7	-0.2	99.9	99.1	0.74	0.00
T10 Meqtaa' duma	A	0.026	0.010	-0.028	-0.008	-1.7	2.4	99.8	99.3	0.50	0.00
	B	0.031	0.010	-0.031	-0.013	0.2	-2.4	99.8	99.1	0.66	0.00
	C	0.029	0.014	-0.026	-0.012	2.2	2.8	99.8	99.2	0.59	0.00
T11 Wad ali	A	0.034	0.011	-0.032	-0.012	2.2	-1.3	99.9	99.2	0.68	0.00
	B	0.029	0.012	-0.028	-0.009	1.3	3.7	99.8	99.3	0.50	0.00
	C	0.030	0.007	-0.033	-0.007	-2.7	0.5	99.9	99.4	0.49	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	0.027	0.009	-0.029	-0.007	-1.6	1.6	99.8	99.2	0.60	0.00
	B	0.030	0.010	-0.029	-0.011	1.4	-1.3	99.8	99.1	0.71	0.00
	C	0.028	0.012	-0.027	-0.010	1.1	2.4	99.8	99.2	0.63	0.00
T13 Qata't al_jamal	A	0.017	0.005	-0.020	-0.008	-3.2	-3.8	99.9	99.4	0.47	0.00
	B	0.017	0.009	-0.015	-0.006	1.9	3.7	99.8	99.5	0.30	0.00
	C	0.013	0.007	-0.011	-0.005	1.9	2.3	99.9	99.6	0.24	0.00
T14 Al_markaz	A	0.023	0.007	-0.023	-0.009	0.0	-1.5	99.9	99.4	0.49	0.00
	B	0.024	0.007	-0.026	-0.007	-1.9	1.0	99.9	99.4	0.42	0.00
	C	0.023	0.008	-0.020	-0.005	2.6	3.1	99.9	99.5	0.34	0.00
T15 Abu hashim	A	0.039	0.017	-0.039	-0.017	0.1	0.1	99.9	99.0	0.90	0.00
	B	0.038	0.019	-0.037	-0.017	1.4	1.6	99.8	99.0	0.86	0.00
	C	0.037	0.017	-0.038	-0.015	-0.6	2.0	99.9	99.1	0.81	0.00
T16 Sa'ada	A	0.019	0.005	-0.021	-0.006	-2.1	-0.9	99.8	99.4	0.39	0.00
	B	0.020	0.007	-0.019	-0.004	1.1	2.3	99.8	99.5	0.29	0.00
	C	0.018	0.006	-0.016	-0.005	1.7	0.9	99.8	99.5	0.31	0.00
T17 Al_baladiya	A	0.019	0.005	-0.021	-0.006	-2.1	-0.9	99.9	99.6	0.39	0.00
	B	0.020	0.007	-0.019	-0.004	1.1	2.3	99.9	99.6	0.29	0.00
	C	0.018	0.006	-0.016	-0.005	1.7	0.9	99.9	99.6	0.31	0.00
T18 Al_sheehk	A	0.039	0.018	-0.040	-0.018	-1.0	0.3	99.9	98.9	0.94	0.00
	B	0.037	0.019	-0.036	-0.014	1.5	4.4	99.9	99.1	0.75	0.00
	C	0.038	0.016	-0.038	-0.018	0.4	-1.0	99.9	99.0	0.88	0.00
T19 Kerbit alama	A	0.009	0.005	-0.008	-0.004	0.8	1.4	99.8	99.4	0.38	0.00
	B	0.009	0.004	-0.009	-0.004	-0.2	0.0	99.8	99.4	0.39	0.00
	C	0.010	0.005	-0.010	-0.005	-0.2	0.0	99.8	99.4	0.43	0.00
T20 Aqabit al_tarsha	A	0.025	0.008	-0.024	-0.008	1.6	-0.1	100.0	99.1	0.90	0.00
	B	0.024	0.009	-0.023	-0.008	0.6	0.6	100.0	99.1	0.88	0.00
	C	0.024	0.007	-0.025	-0.006	-1.4	1.6	100.0	99.2	0.79	0.00
T21 Al_mustashfah	A	0.017	0.004	-0.020	-0.008	-3.2	-4.0	99.8	99.0	0.85	0.00
	B	0.017	0.009	-0.015	-0.006	1.9	3.5	99.8	99.2	0.57	0.00
	C	0.013	0.007	-0.011	-0.005	1.8	2.1	99.8	99.4	0.45	0.00
T22 Da'na	A	0.007	0.005	-0.008	-0.004	-0.6	0.6	99.8	99.4	0.39	0.00
	B	0.008	0.005	-0.008	-0.005	0.0	0.0	99.8	99.4	0.39	0.00
	C	0.008	0.006	-0.007	-0.005	0.9	0.7	99.8	99.4	0.38	0.00
T23 Kurza	A	0.025	0.008	-0.024	-0.008	1.6	-0.1	99.8	98.9	0.91	0.00
	B	0.024	0.009	-0.023	-0.008	0.6	0.6	99.8	98.9	0.89	0.00
	C	0.024	0.007	-0.025	-0.006	-1.4	1.6	99.8	99.0	0.79	0.00
T24 Al-deire 2	A	0.007	0.005	-0.008	-0.004	-0.6	0.6	99.9	99.5	0.39	0.00
	B	0.008	0.005	-0.008	-0.005	0.0	0.0	99.9	99.5	0.39	0.00
	C	0.008	0.006	-0.007	-0.005	0.9	0.7	99.9	99.6	0.38	0.00
T25 Rasmi wahab	A	0.017	0.007	-0.018	-0.009	-1.4	-1.8	100.0	99.2	0.82	0.00
	B	0.012	0.010	-0.009	-0.004	3.3	5.3	100.0	99.6	0.39	0.00
	C	0.012	0.005	-0.013	-0.007	-1.5	-1.9	100.0	99.4	0.59	0.00
T26 Baten alqar'	A	0.018	0.010	-0.019	-0.009	-0.8	1.1	99.9	99.1	0.85	0.00
	B	0.020	0.010	-0.020	-0.011	0.3	-0.5	99.9	99.0	0.92	0.00
	C	0.019	0.012	-0.018	-0.010	1.1	1.3	99.9	99.1	0.88	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	0.008	0.005	-0.007	-0.004	0.8	1.4	99.9	99.6	0.36	0.00
	B	0.007	0.004	-0.007	-0.003	0.0	0.9	99.9	99.6	0.29	0.00
	C	0.008	0.004	-0.009	-0.005	-0.4	-0.9	99.9	99.5	0.41	0.00
T28 Domet al_wridat	A	0.024	0.008	-0.022	-0.007	2.2	1.3	99.8	99.0	0.82	0.00
	B	0.021	0.008	-0.020	-0.008	1.1	0.9	99.8	99.0	0.78	0.00
	C	0.023	0.006	-0.025	-0.006	-2.6	-0.2	99.8	99.0	0.83	0.00
T29 Juret al_dama	A	0.022	0.012	-0.022	-0.011	0.0	0.9	99.9	98.9	1.02	0.00
	B	0.026	0.011	-0.027	-0.012	-1.6	-1.4	99.9	98.7	1.16	0.00
	C	0.025	0.014	-0.022	-0.011	2.4	2.8	99.9	98.9	1.01	0.00
T30 Kafar joul	A	0.045	0.014	-0.053	-0.016	-8.5	-1.3	99.9	98.0	1.91	0.00
	B	0.056	0.027	-0.047	-0.032	8.3	-4.3	99.8	97.3	2.56	0.00
	C	0.039	0.030	-0.037	-0.019	2.2	11.0	99.9	98.2	1.71	0.00
T31 Sam'a	A	0.004	0.003	-0.004	-0.002	0.3	1.3	99.9	99.7	0.20	0.00
	B	0.005	0.002	-0.005	-0.001	-0.7	0.2	99.8	99.7	0.17	0.00
	C	0.006	0.003	-0.005	-0.003	0.7	-0.2	99.9	99.6	0.24	0.00
T32 Khalet al_ayaseh	A	0.006	0.003	-0.007	-0.002	-0.6	0.6	99.8	99.5	0.28	0.00
	B	0.009	0.002	-0.011	-0.002	-1.9	-0.8	99.8	99.5	0.33	0.00
	C	0.009	0.005	-0.006	-0.003	2.9	1.5	99.8	99.6	0.27	0.00
T33 Al_mizrab	A	0.006	0.002	-0.006	-0.002	-0.1	-0.1	99.9	99.7	0.24	0.00
	B	0.006	0.003	-0.005	-0.002	0.6	0.5	99.9	99.7	0.21	0.00
	C	0.005	0.002	-0.005	-0.001	-0.2	0.8	99.9	99.8	0.17	0.00
T34 Al_shadaqa	A	0.006	0.002	-0.006	-0.002	-0.1	-0.1	99.9	99.7	0.24	0.00
	B	0.006	0.003	-0.005	-0.002	0.6	0.5	99.9	99.7	0.21	0.00
	C	0.005	0.002	-0.005	-0.001	-0.2	0.8	99.9	99.8	0.17	0.00
T35 Al_shuqfan	A	0.014	0.005	-0.014	-0.004	0.0	0.3	99.9	99.0	0.95	0.00
	B	0.014	0.005	-0.013	-0.005	0.3	0.3	99.9	98.9	0.92	0.00
	C	0.013	0.005	-0.013	-0.004	0.1	0.6	99.9	99.0	0.90	0.00
T36 Al_estad	A	0.006	0.002	-0.006	-0.002	-0.1	-0.1	99.9	99.6	0.25	0.00
	B	0.006	0.003	-0.005	-0.002	0.6	0.5	99.8	99.6	0.20	0.00
	C	0.005	0.002	-0.005	-0.001	-0.2	0.8	99.9	99.7	0.17	0.00
T37 Eshreeteh	A	0.019	0.006	-0.018	-0.005	0.7	1.5	99.9	99.2	0.62	0.00
	B	0.016	0.005	-0.014	-0.002	1.6	2.8	99.8	99.4	0.40	0.00
	C	0.018	0.003	-0.020	-0.006	-1.8	-2.6	99.9	99.2	0.68	0.00
T38 Al_muhtasib	A	0.013	0.007	-0.010	-0.004	2.9	2.6	99.8	99.4	0.42	0.00
	B	0.011	0.003	-0.013	-0.004	-1.6	-0.2	99.8	99.3	0.44	0.00
	C	0.015	0.004	-0.016	-0.005	-0.9	-0.9	99.8	99.3	0.55	0.00
T39 Jammoq	A	0.019	0.005	-0.018	-0.006	0.3	-0.9	99.9	99.2	0.68	0.00
	B	0.018	0.005	-0.019	-0.004	-0.6	1.1	99.8	99.2	0.60	0.00
	C	0.018	0.005	-0.017	-0.003	0.8	1.6	99.9	99.3	0.52	0.00
T40 Al_helal	A	0.003	0.001	-0.003	-0.001	0.3	-0.1	99.9	99.8	0.14	0.00
	B	0.002	0.002	-0.002	-0.001	0.4	0.8	99.9	99.8	0.07	0.00
	C	0.002	0.001	-0.002	0.000	-0.4	0.5	99.9	99.9	0.06	0.00
T41 Al_muntazah 2	A	0.012	0.004	-0.012	-0.005	-0.1	-0.3	99.9	99.4	0.50	0.00
	B	0.009	0.006	-0.007	-0.003	2.0	2.6	99.9	99.6	0.29	0.00
	C	0.010	0.003	-0.011	-0.004	-1.6	-0.9	99.9	99.5	0.40	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	0.011	0.003	-0.012	-0.004	-0.7	-1.0	99.9	99.5	0.45	0.00
	B	0.011	0.006	-0.009	-0.005	1.8	0.5	99.9	99.5	0.44	0.00
	C	0.009	0.004	-0.009	-0.002	-0.8	1.9	99.9	99.7	0.30	0.00
T43 Al jame'a	A	0.009	0.007	-0.006	-0.003	2.9	4.1	99.8	99.5	0.29	0.00
	B	0.010	0.002	-0.012	-0.005	-2.0	-2.1	99.8	99.3	0.46	0.00
	C	0.013	0.005	-0.014	-0.006	-0.5	-0.5	99.8	99.3	0.55	0.00
T44 Alghwla	A	0.005	0.002	-0.005	-0.002	-0.4	0.3	99.9	99.7	0.22	0.00
	B	0.004	0.002	-0.002	-0.001	1.2	1.5	99.8	99.8	0.09	0.00
	C	0.004	0.001	-0.004	-0.002	-0.5	-0.5	99.9	99.7	0.17	0.00
T45 Masafi	A	0.017	0.005	-0.019	-0.007	-1.7	-1.2	99.8	99.1	0.73	0.00
	B	0.015	0.008	-0.013	-0.004	2.5	3.6	99.8	99.4	0.45	0.00
	C	0.014	0.005	-0.015	-0.006	-0.3	-0.8	99.9	99.3	0.57	0.00
T46 Al_jebreni	A	0.021	0.012	-0.019	-0.010	1.4	2.0	99.8	98.9	0.93	0.00
	B	0.022	0.011	-0.024	-0.012	-1.5	-1.6	99.8	98.7	1.09	0.00
	C	0.023	0.013	-0.022	-0.011	0.8	1.7	99.8	98.8	1.01	0.00
T47 Abu_njeem 1	A	0.006	0.002	-0.006	-0.002	0.2	-0.1	99.9	99.5	0.45	0.00
	B	0.005	0.003	-0.005	-0.002	0.4	1.0	99.9	99.6	0.31	0.00
	C	0.005	0.002	-0.006	-0.002	-0.3	0.0	100.0	99.6	0.36	0.00
T48 Inab al_kabeer	A	0.004	0.002	-0.004	-0.001	-0.2	0.7	99.9	99.6	0.30	0.00
	B	0.005	0.002	-0.006	-0.002	-0.5	-0.9	99.9	99.5	0.43	0.00
	C	0.005	0.003	-0.004	-0.002	0.8	0.9	99.9	99.6	0.34	0.00
T49 Shweki	A	0.004	0.002	-0.004	-0.001	-0.2	0.7	99.9	99.6	0.30	0.00
	B	0.005	0.002	-0.006	-0.002	-0.5	-0.9	99.9	99.5	0.43	0.00
	C	0.005	0.003	-0.004	-0.002	0.8	0.9	99.9	99.6	0.34	0.00
T50 Al-baha	A	0.019	0.005	-0.018	-0.006	0.4	-1.0	99.9	98.7	1.25	0.00
	B	0.018	0.005	-0.019	-0.004	-0.6	1.1	99.9	98.7	1.15	0.00
	C	0.018	0.005	-0.017	-0.003	0.9	1.5	99.9	98.9	1.01	0.00
T51 Inab al_sagher	A	0.019	0.006	-0.020	-0.005	-0.4	0.5	99.9	98.6	1.27	0.00
	B	0.018	0.008	-0.015	-0.007	2.6	1.1	99.9	98.7	1.14	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	0.006	0.002	-0.006	-0.002	0.2	-0.1	99.9	99.5	0.44	0.00
	B	0.005	0.003	-0.005	-0.002	0.4	1.0	99.9	99.6	0.31	0.00
	C	0.005	0.002	-0.006	-0.002	-0.3	0.0	99.9	99.5	0.36	0.00
T53 Al_tork	A	0.020	0.025	-0.022	-0.022	-2.0	3.2	99.8	99.3	0.55	0.00
	B	0.026	0.024	-0.026	-0.026	-0.4	-2.2	99.8	99.2	0.63	0.00
	C	0.024	0.029	-0.020	-0.026	3.3	2.8	99.8	99.2	0.62	0.00
T54 Wad algamary 3	A	0.009	0.005	-0.008	-0.004	0.7	1.3	100.0	99.3	0.66	0.00
	B	0.009	0.004	-0.009	-0.004	-0.2	-0.2	99.9	99.2	0.70	0.00
	C	0.010	0.005	-0.010	-0.005	-0.2	-0.1	100.0	99.2	0.78	0.00
T55 Mana'	A	0.006	0.005	-0.006	-0.005	-0.2	-0.2	99.9	99.5	0.39	0.00
	B	0.005	0.005	-0.004	-0.003	0.7	1.7	99.8	99.6	0.25	0.00
	C	0.005	0.004	-0.005	-0.004	-0.2	-0.2	99.9	99.6	0.31	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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