

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	0.031	-0.077	-0.031	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	99.9	0.00	0.00
	C	0.073	0.028	-0.073	-0.028	0.0	0.0	99.9	99.9	0.00	0.00
C56	A	0.090	0.034	-0.090	-0.034	0.0	0.0	99.9	99.9	0.00	0.00
	B	0.077	0.038	-0.077	-0.038	0.0	0.0	99.9	99.9	0.00	0.00
	C	0.080	0.025	-0.080	-0.025	0.0	0.0	100.0	100.0	0.00	0.00
C59	A	0.273	0.108	-0.273	-0.108	0.0	0.0	99.9	99.9	0.00	0.00
	B	0.263	0.126	-0.263	-0.126	0.0	0.0	99.9	99.9	0.00	0.00
	C	0.253	0.108	-0.253	-0.108	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	99.9	99.9	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	0.328	0.140	-0.328	-0.140	0.0	0.0	100.0	100.0	0.00	0.00
	B	0.307	0.158	-0.307	-0.158	0.0	0.0	100.0	100.0	0.00	0.00
	C	0.303	0.131	-0.303	-0.131	0.0	0.0	100.0	100.0	0.00	0.00
C80	A	0.061	0.017	-0.061	-0.017	0.0	0.0	99.9	99.9	0.00	0.00
	B	0.059	0.026	-0.059	-0.026	0.0	0.0	99.9	99.9	0.00	0.00
	C	0.053	0.020	-0.053	-0.020	0.0	0.0	100.0	100.0	0.00	0.00
C96	A	0.566	0.311	-0.566	-0.311	0.0	0.0	100.0	100.0	0.01	0.00
	B	0.537	0.313	-0.537	-0.313	0.0	0.0	100.0	100.0	0.01	0.00
	C	0.551	0.287	-0.551	-0.287	0.0	0.0	100.0	100.0	0.01	0.00
C97	A	0.380	0.153	-0.380	-0.153	0.0	0.0	99.9	99.9	0.00	0.00
	B	0.369	0.161	-0.369	-0.161	0.0	0.0	99.9	99.9	0.00	0.00
	C	0.368	0.148	-0.368	-0.148	0.0	0.0	99.9	99.9	0.00	0.00
C100	A	0.023	0.008	-0.023	-0.008	0.0	0.0	99.9	99.9	0.00	0.00
	B	0.024	0.008	-0.024	-0.008	0.0	0.0	99.9	99.9	0.00	0.00
	C	0.023	0.009	-0.023	-0.009	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	99.9	99.9	0.00	0.00
	B	0.030	0.010	-0.030	-0.010	0.0	0.0	99.9	99.9	0.00	0.00
	C	0.027	0.012	-0.027	-0.012	0.0	0.0	99.9	99.9	0.00	0.00
C117	A	0.080	0.043	-0.080	-0.043	0.0	0.0	99.9	99.9	0.00	0.00
	B	0.083	0.049	-0.083	-0.049	0.0	0.0	99.8	99.8	0.00	0.00
	C	0.077	0.049	-0.077	-0.049	0.0	0.0	99.9	99.9	0.00	0.00
C120	A	0.288	0.117	-0.288	-0.117	0.0	0.0	99.9	99.9	0.00	0.00
	B	0.296	0.126	-0.296	-0.126	0.0	0.0	99.9	99.9	0.00	0.00
	C	0.285	0.128	-0.285	-0.128	0.0	0.0	99.9	99.9	0.00	0.00
C128	A	0.537	0.206	-0.537	-0.206	0.0	0.0	99.9	99.9	0.01	0.00
	B	0.511	0.228	-0.511	-0.228	0.0	0.0	99.9	99.9	0.01	0.00
	C	0.506	0.194	-0.506	-0.194	0.0	0.0	100.0	100.0	0.01	0.00
C160	A	0.386	0.155	-0.386	-0.155	0.0	0.0	99.9	99.9	0.01	0.00
	B	0.374	0.164	-0.374	-0.164	0.0	0.0	99.9	99.9	0.01	0.00
	C	0.373	0.150	-0.373	-0.150	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	0.476	0.189	-0.476	-0.189	0.0	0.0	99.9	99.9	0.01	0.00
	B	0.452	0.202	-0.452	-0.202	0.0	0.0	99.9	99.9	0.01	0.00
	C	0.453	0.174	-0.453	-0.174	0.0	0.0	100.0	100.0	0.01	0.00
C163	A	0.140	0.062	-0.140	-0.062	0.0	0.0	99.9	99.9	0.00	0.00
	B	0.155	0.063	-0.155	-0.063	0.0	0.0	99.9	99.9	0.00	0.00
	C	0.148	0.075	-0.148	-0.075	0.0	0.0	99.9	99.9	0.00	0.00
C191	A	0.386	0.155	-0.386	-0.155	0.0	0.0	99.9	99.9	0.01	0.00
	B	0.375	0.164	-0.374	-0.164	0.0	0.0	99.9	99.9	0.01	0.00
	C	0.373	0.150	-0.373	-0.150	0.0	0.0	100.0	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	100.0	100.0	0.00	0.00
C203	A	-0.009	-0.006	0.009	0.006	0.0	0.0	99.9	99.9	0.00	0.00
	B	-0.001	-0.015	0.001	0.015	0.0	0.0	99.9	99.9	0.00	0.00
	C	0.003	-0.003	-0.003	0.003	0.0	0.0	99.9	99.9	0.00	0.00
C216	A	0.288	0.117	-0.288	-0.117	0.0	0.0	99.9	99.9	0.01	0.00
	B	0.296	0.126	-0.296	-0.126	0.0	0.0	99.9	99.9	0.01	0.00
	C	0.285	0.128	-0.285	-0.128	0.0	0.0	99.9	99.9	0.01	0.00
C246	A	0.556	0.211	-0.556	-0.211	0.1	0.1	99.9	99.9	0.02	0.00
	B	0.530	0.235	-0.530	-0.235	0.1	0.1	99.9	99.9	0.02	0.00
	C	0.523	0.201	-0.523	-0.201	0.1	0.0	100.0	100.0	0.01	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	99.9	99.9	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	99.9	99.9	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	0.023	0.030	-0.023	-0.030	0.0	0.0	99.9	99.9	0.00	0.00
C322	A	-0.009	-0.006	0.009	0.006	0.0	0.0	99.9	99.9	0.00	0.00
	B	-0.001	-0.015	0.001	0.015	0.0	0.0	99.9	99.9	0.00	0.00
	C	0.003	-0.003	-0.003	0.003	0.0	0.0	99.9	99.9	0.00	0.00
C330	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
C352	A	0.136	0.051	-0.136	-0.051	0.0	0.0	99.9	99.9	0.01	0.00
	B	0.132	0.059	-0.132	-0.059	0.0	0.0	99.9	99.9	0.01	0.00
	C	0.127	0.052	-0.127	-0.052	0.0	0.0	99.9	99.9	0.01	0.00
C361	A	0.227	0.091	-0.227	-0.091	0.0	0.0	99.9	99.9	0.01	0.00
	B	0.235	0.100	-0.235	-0.100	0.0	0.0	99.9	99.9	0.01	0.00
	C	0.223	0.103	-0.223	-0.103	0.0	0.0	99.9	99.9	0.01	0.00
C365	A	0.122	0.057	-0.122	-0.057	0.0	0.0	99.9	99.9	0.01	0.00
	B	0.137	0.057	-0.137	-0.057	0.0	0.0	99.9	99.9	0.01	0.00
	C	0.130	0.071	-0.130	-0.071	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	99.9	99.9	0.00	0.00
	C	0.037	0.018	-0.037	-0.018	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	0.088	0.047	-0.088	-0.047	0.0	0.0	99.9	99.9	0.00	0.00
	B	0.092	0.053	-0.092	-0.053	0.0	0.0	99.9	99.8	0.00	0.00
	C	0.085	0.054	-0.085	-0.054	0.0	0.0	99.9	99.9	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	0.006	-0.018	-0.006	0.0	0.0	99.9	99.9	0.00	0.00
	C	0.017	0.005	-0.017	-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	99.9	99.9	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	100.0	100.0	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	99.9	99.9	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	0.024	0.010	-0.024	-0.010	0.0	0.0	99.9	99.9	0.00	0.00
	B	0.019	0.007	-0.019	-0.007	0.0	0.0	99.9	99.9	0.00	0.00
	C	0.025	0.004	-0.025	-0.004	0.0	0.0	99.9	99.9	0.00	0.00
C.450	A	-0.100	-0.045	0.100	0.045	0.0	0.0	99.9	99.9	0.01	0.00
	B	-0.100	-0.044	0.100	0.044	0.0	0.0	99.9	99.9	0.01	0.00
	C	-0.101	-0.044	0.101	0.044	0.0	0.0	99.9	99.9	0.01	0.00
C461	A	0.006	0.003	-0.006	-0.003	0.0	0.0	99.9	99.9	0.00	0.00
	B	0.009	0.002	-0.009	-0.002	0.0	0.0	99.9	99.9	0.00	0.00
	C	0.009	0.005	-0.009	-0.005	0.0	0.0	99.9	99.9	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	0.011	-0.021	-0.011	0.0	0.0	99.9	99.9	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	0.566	0.285	-0.565	-0.285	0.2	0.1	100.0	99.9	0.03	0.00
	B	0.530	0.302	-0.530	-0.302	0.2	0.1	100.0	99.9	0.03	0.00
	C	0.534	0.263	-0.534	-0.263	0.1	0.1	100.0	100.0	0.03	0.00
C476	A	0.041	0.013	-0.041	-0.013	0.0	0.0	99.9	99.9	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	99.9	99.9	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	0.029	-0.056	-0.029	0.0	0.0	99.9	99.9	0.00	0.00
	C	0.054	0.026	-0.054	-0.026	0.0	0.0	100.0	100.0	0.00	0.00
C517	A	-0.076	-0.034	0.076	0.034	0.0	0.0	99.9	99.9	0.00	0.00
	B	-0.074	-0.039	0.074	0.039	0.0	0.0	99.9	99.9	0.00	0.00
	C	-0.071	-0.034	0.071	0.034	0.0	0.0	99.9	99.9	0.00	0.00
C518	A	-0.052	-0.024	0.052	0.024	0.0	0.0	99.9	99.9	0.00	0.00
	B	-0.050	-0.030	0.050	0.030	0.0	0.0	99.9	99.9	0.00	0.00
	C	-0.047	-0.025	0.047	0.025	0.0	0.0	99.9	99.9	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	0.026	-0.051	-0.026	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	100.0	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	-0.025	-0.015	0.025	0.015	0.0	0.0	99.9	99.9	0.00	0.00
	B	-0.020	-0.019	0.020	0.019	0.0	0.0	99.9	99.9	0.00	0.00
	C	-0.019	-0.013	0.019	0.013	0.0	0.0	99.9	99.9	0.00	0.00
C587	A	0.024	0.008	-0.024	-0.008	0.0	0.0	99.9	99.9	0.00	0.00
	B	0.021	0.009	-0.021	-0.009	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	99.9	99.9	0.00	0.00
C603	A	0.105	0.052	-0.105	-0.052	0.0	0.0	99.9	99.9	0.01	0.00
	B	0.122	0.049	-0.122	-0.049	0.0	0.0	99.9	99.9	0.01	0.00
	C	0.116	0.066	-0.116	-0.066	0.0	0.0	99.9	99.9	0.01	0.00
C622	A	0.017	0.005	-0.017	-0.005	0.0	0.0	99.9	99.9	0.00	0.00
	B	0.017	0.009	-0.017	-0.009	0.0	0.0	99.9	99.9	0.00	0.00
	C	0.013	0.007	-0.013	-0.007	0.0	0.0	100.0	100.0	0.00	0.00
C727	A	0.022	0.008	-0.022	-0.008	0.0	0.0	99.9	99.9	0.00	0.00
	B	0.023	0.010	-0.023	-0.010	0.0	0.0	99.9	99.9	0.00	0.00
	C	0.022	0.009	-0.022	-0.009	0.0	0.0	100.0	100.0	0.00	0.00
C728	A	0.042	0.016	-0.042	-0.016	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	99.9	99.9	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	0.122	0.046	-0.122	-0.046	0.0	0.0	99.9	99.9	0.01	0.00
	B	0.118	0.054	-0.118	-0.054	0.0	0.0	99.9	99.9	0.01	0.00
	C	0.114	0.047	-0.114	-0.047	0.0	0.0	99.9	99.9	0.01	0.00
C811	A	0.038	0.014	-0.038	-0.014	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	99.9	99.9	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	-0.088	-0.038	0.088	0.038	0.0	0.0	99.9	99.9	0.01	0.00
	B	-0.089	-0.040	0.089	0.040	0.0	0.0	99.9	99.9	0.01	0.00
	C	-0.087	-0.040	0.087	0.040	0.0	0.0	99.9	99.9	0.01	0.00
C880	A	-0.100	-0.045	0.100	0.045	0.0	0.0	99.9	99.9	0.01	0.00
	B	-0.100	-0.044	0.100	0.044	0.0	0.0	99.9	99.9	0.01	0.00
	C	-0.101	-0.044	0.101	0.044	0.0	0.0	99.9	99.9	0.01	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	99.9	99.9	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	99.9	99.9	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	0.023	0.030	-0.023	-0.030	0.0	0.0	99.9	99.9	0.00	0.00
Co58	A	0.037	0.013	-0.037	-0.013	0.0	0.0	99.9	99.9	0.00	0.00
	B	0.032	0.017	-0.032	-0.017	0.0	0.0	99.9	99.9	0.00	0.00
	C	0.031	0.011	-0.031	-0.011	0.0	0.0	100.0	100.0	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	0.216	0.082	-0.216	-0.082	0.0	0.0	99.9	99.9	0.00	0.00
	B	0.207	0.097	-0.207	-0.097	0.0	0.0	99.9	99.9	0.00	0.00
	C	0.199	0.083	-0.199	-0.083	0.0	0.0	100.0	100.0	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	99.9	99.9	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	99.9	99.9	0.00	0.00
	C	0.008	0.004	-0.008	-0.004	0.0	0.0	99.9	99.9	0.00	0.00
Co294	A	0.028	0.010	-0.028	-0.010	0.0	0.0	99.9	99.9	0.00	0.00
	B	0.024	0.013	-0.024	-0.013	0.0	0.0	99.9	99.9	0.00	0.00
	C	0.024	0.008	-0.024	-0.008	0.0	0.0	100.0	100.0	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	0.003	0.003	-0.003	-0.003	0.0	0.0	99.9	99.9	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	0.216	0.082	-0.216	-0.082	0.0	0.0	99.9	99.9	0.01	0.00
	B	0.207	0.097	-0.207	-0.097	0.0	0.0	99.9	99.9	0.01	0.00
	C	0.199	0.083	-0.199	-0.083	0.0	0.0	100.0	100.0	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	99.9	99.9	0.00	0.00
	C	0.008	0.004	-0.008	-0.004	0.0	0.0	99.9	99.9	0.00	0.00
Co999	A	0.034	0.012	-0.034	-0.012	0.0	0.0	99.9	99.9	0.00	0.00
	B	0.030	0.016	-0.030	-0.016	0.0	0.0	99.9	99.9	0.00	0.00
	C	0.029	0.010	-0.029	-0.010	0.0	0.0	100.0	100.0	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	99.9	99.9	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	100.0	100.0	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	100.0	100.0	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	100.0	100.0	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	100.0	100.0	0.00	0.00
D655	A	0.028	0.010	-0.028	-0.010	0.0	0.0	99.9	99.9	0.00	0.00
	B	0.024	0.013	-0.024	-0.013	0.0	0.0	99.9	99.9	0.00	0.00
	C	0.024	0.008	-0.024	-0.008	0.0	0.0	100.0	100.0	0.00	0.00
D711	A	0.028	0.010	-0.028	-0.010	0.0	0.0	99.9	99.9	0.00	0.00
	B	0.024	0.013	-0.024	-0.013	0.0	0.0	99.9	99.9	0.00	0.00
	C	0.024	0.008	-0.024	-0.008	0.0	0.0	100.0	100.0	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	100.0	100.0	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	0.003	0.003	-0.003	-0.003	0.0	0.0	99.9	99.9	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	0.894	0.452	-0.894	-0.452	0.1	0.0	100.0	100.0	0.01	0.00
	B	0.844	0.470	-0.844	-0.470	0.0	0.0	100.0	100.0	0.01	0.00
	C	0.853	0.419	-0.853	-0.419	0.0	0.0	100.0	100.0	0.01	0.00
R45	A	0.077	0.031	-0.077	-0.031	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	99.9	0.00	0.00
	C	0.073	0.028	-0.073	-0.028	0.0	0.0	99.9	99.9	0.00	0.00
R106	A	0.328	0.140	-0.328	-0.140	0.0	0.0	100.0	100.0	0.01	0.00
	B	0.307	0.158	-0.307	-0.158	0.0	0.0	100.0	100.0	0.01	0.00
	C	0.303	0.131	-0.303	-0.131	0.0	0.0	100.0	100.0	0.01	0.00
R150	A	0.077	0.031	-0.077	-0.031	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	99.9	0.00	0.00
	C	0.073	0.028	-0.073	-0.028	0.0	0.0	99.9	99.9	0.00	0.00
R164	A	0.155	0.057	-0.155	-0.057	0.0	0.0	99.9	99.9	0.00	0.00
	B	0.150	0.066	-0.150	-0.066	0.0	0.0	99.9	99.9	0.00	0.00
	C	0.144	0.057	-0.144	-0.057	0.0	0.0	100.0	100.0	0.00	0.00
R190	A	0.320	0.136	-0.320	-0.136	0.0	0.0	100.0	100.0	0.01	0.00
	B	0.298	0.154	-0.298	-0.154	0.0	0.0	100.0	100.0	0.01	0.00
	C	0.294	0.126	-0.294	-0.126	0.0	0.0	100.0	100.0	0.01	0.00
R380	A	0.077	0.031	-0.077	-0.031	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	99.9	99.9	0.01	0.00
	C	0.073	0.028	-0.073	-0.028	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	0.320	0.136	-0.320	-0.136	0.1	0.1	100.0	99.9	0.03	0.00
	B	0.298	0.154	-0.298	-0.154	0.1	0.0	100.0	99.9	0.03	0.00
	C	0.294	0.126	-0.294	-0.126	0.1	0.0	100.0	100.0	0.02	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	100.0	100.0	0.00	0.00
R560	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	99.9	99.9	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
R734	A	0.155	0.057	-0.155	-0.057	0.0	0.0	99.9	99.9	0.02	0.00
	B	0.150	0.066	-0.150	-0.066	0.0	0.0	99.9	99.9	0.02	0.00
	C	0.144	0.057	-0.144	-0.057	0.0	0.0	100.0	99.9	0.02	0.00
R803	A	0.024	0.010	-0.024	-0.010	0.0	0.0	99.9	99.9	0.00	0.00
	B	0.024	0.009	-0.024	-0.009	0.0	0.0	99.9	99.9	0.00	0.00
	C	0.024	0.009	-0.024	-0.009	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		
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	100.0	100.0	0.00	0.00
R950	A	0.022	0.008	-0.022	-0.008	0.0	0.0	99.9	99.9	0.00	0.00
	B	0.023	0.010	-0.023	-0.010	0.0	0.0	99.9	99.9	0.00	0.00
	C	0.022	0.009	-0.022	-0.009	0.0	0.0	100.0	99.9	0.00	0.00
R1435	A	0.030	0.010	-0.030	-0.010	0.0	0.0	99.9	99.9	0.00	0.00
	B	0.024	0.016	-0.024	-0.016	0.0	0.0	99.9	99.9	0.00	0.00
	C	0.022	0.007	-0.022	-0.007	0.0	0.0	99.9	99.9	0.00	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	0.068	0.025	-0.067	-0.029	0.6	-3.3	99.9	99.1	0.85	0.00
	B	0.055	0.028	-0.050	-0.015	4.8	13.9	99.9	99.5	0.46	0.00
	C	0.058	0.016	-0.063	-0.021	-4.2	-5.0	100.0	99.3	0.66	0.00
T2 Mothalath Al_borg	A	0.003	0.071	-0.001	-0.073	2.5	-1.5	99.9	98.4	1.56	0.00
	B	-0.005	0.064	0.000	-0.052	-5.7	12.4	99.9	98.9	1.07	0.00
	C	0.005	0.060	-0.001	-0.066	4.4	-5.3	100.0	98.6	1.40	0.00
T3 Maskaneh	A	0.068	0.025	-0.067	-0.029	0.6	-3.3	99.9	99.0	0.85	0.00
	B	0.055	0.028	-0.050	-0.014	4.8	13.9	99.9	99.4	0.46	0.00
	C	0.058	0.016	-0.063	-0.021	-4.2	-5.0	99.9	99.3	0.66	0.00
T4 Bear mtawi'	A	0.047	0.029	-0.037	-0.026	10.2	2.9	99.9	99.3	0.69	0.00
	B	0.035	0.028	-0.033	-0.025	1.8	2.8	99.9	99.3	0.62	0.00
	C	0.042	0.018	-0.053	-0.019	-11.0	-1.2	100.0	99.4	0.60	0.00
T5 Wad algamary 1	A	0.032	0.015	-0.034	-0.014	-1.5	0.2	99.9	99.2	0.77	0.00
	B	0.033	0.016	-0.032	-0.014	1.4	1.7	99.9	99.2	0.71	0.00
	C	0.031	0.016	-0.030	-0.015	1.0	1.2	100.0	99.2	0.74	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	-0.1	0.9	99.9	99.6	0.28	0.00
	C	0.009	0.004	-0.009	-0.005	-0.6	-1.1	100.0	99.5	0.45	0.00
T7 Al_deir 1	A	0.044	0.013	-0.047	-0.014	-2.8	-0.8	99.9	99.1	0.86	0.00
	B	0.042	0.017	-0.037	-0.012	4.6	4.7	99.9	99.2	0.69	0.00
	C	0.039	0.013	-0.040	-0.013	-0.8	-0.1	100.0	99.2	0.78	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	0.005	-0.023	-0.008	0.0	-3.6	99.9	99.4	0.43	0.00
	C	0.019	0.011	-0.015	-0.009	4.1	2.7	99.9	99.5	0.42	0.00
T9 Abu al_humas	A	0.044	0.013	-0.047	-0.014	-2.8	-0.8	99.9	99.0	0.86	0.00
	B	0.042	0.017	-0.037	-0.012	4.6	4.7	99.9	99.2	0.69	0.00
	C	0.039	0.013	-0.040	-0.013	-0.8	-0.1	99.9	99.1	0.78	0.00
T10 Meqtaa' duma	A	0.026	0.010	-0.028	-0.008	-1.7	2.3	99.9	99.3	0.52	0.00
	B	0.031	0.011	-0.031	-0.013	0.2	-2.4	99.9	99.2	0.66	0.00
	C	0.028	0.015	-0.026	-0.012	2.2	2.9	99.9	99.3	0.62	0.00
T11 Wad ali	A	0.034	0.011	-0.032	-0.012	2.3	-1.1	99.9	99.2	0.68	0.00
	B	0.029	0.012	-0.028	-0.009	1.0	3.7	99.9	99.4	0.50	0.00
	C	0.030	0.008	-0.033	-0.007	-2.6	0.3	99.9	99.4	0.53	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 gharrarah	A	0.027	0.009	-0.029	-0.007	-1.5	1.5	99.9	99.3	0.61	0.00
	B	0.030	0.010	-0.029	-0.011	1.4	-1.2	99.9	99.2	0.70	0.00
	C	0.027	0.012	-0.027	-0.010	0.9	2.5	99.9	99.3	0.65	0.00
T13 Qata't al_jamal	A	0.017	0.005	-0.020	-0.009	-3.2	-3.8	99.9	99.4	0.47	0.00
	B	0.017	0.009	-0.015	-0.006	1.8	3.8	99.9	99.6	0.29	0.00
	C	0.013	0.007	-0.011	-0.005	2.0	2.2	99.9	99.6	0.26	0.00
T14 Al_markaz	A	0.023	0.008	-0.023	-0.009	-0.1	-1.4	99.9	99.4	0.50	0.00
	B	0.024	0.008	-0.026	-0.007	-2.1	1.1	99.9	99.5	0.41	0.00
	C	0.023	0.009	-0.020	-0.006	2.9	2.8	99.9	99.5	0.37	0.00
T15 Abu hashim	A	0.039	0.017	-0.039	-0.017	0.3	0.0	99.9	99.0	0.91	0.00
	B	0.038	0.019	-0.037	-0.018	1.3	1.7	99.9	99.0	0.85	0.00
	C	0.037	0.018	-0.038	-0.016	-0.7	1.8	99.9	99.1	0.84	0.00
T16 Sa'ada	A	0.019	0.005	-0.021	-0.006	-2.0	-1.1	99.9	99.5	0.40	0.00
	B	0.020	0.007	-0.018	-0.005	1.0	2.3	99.8	99.6	0.29	0.00
	C	0.018	0.006	-0.016	-0.005	1.5	1.1	99.9	99.6	0.32	0.00
T17 Al_baladiya	A	0.019	0.005	-0.021	-0.006	-2.0	-1.1	99.9	99.5	0.40	0.00
	B	0.020	0.007	-0.019	-0.005	1.0	2.3	99.9	99.6	0.29	0.00
	C	0.018	0.006	-0.016	-0.005	1.5	1.1	100.0	99.6	0.32	0.00
T18 Al_sheehk	A	0.039	0.019	-0.040	-0.018	-1.0	0.3	99.9	98.9	0.95	0.00
	B	0.037	0.019	-0.036	-0.014	1.2	4.6	99.9	99.1	0.74	0.00
	C	0.038	0.017	-0.037	-0.018	0.7	-1.2	99.9	99.0	0.91	0.00
T19 Kerbit alama	A	0.012	0.004	-0.010	-0.003	2.0	1.5	99.9	99.5	0.36	0.00
	B	0.015	0.001	-0.019	-0.004	-4.1	-2.7	99.9	99.3	0.55	0.00
	C	0.016	0.005	-0.013	-0.003	2.5	2.7	99.9	99.5	0.42	0.00
T20 Aqabit al_tarsha	A	0.000	0.026	0.000	-0.025	0.1	1.0	100.0	98.7	1.28	0.00
	B	0.007	0.011	-0.023	-0.008	-16.1	2.4	100.0	99.1	0.87	0.00
	C	0.017	0.024	0.000	-0.026	16.7	-1.2	100.0	98.7	1.30	0.00
T21 Al_mustashfah	A	0.017	0.005	-0.020	-0.009	-3.2	-4.0	99.9	99.0	0.86	0.00
	B	0.017	0.009	-0.015	-0.006	1.8	3.6	99.8	99.3	0.56	0.00
	C	0.013	0.007	-0.011	-0.005	1.9	2.0	99.9	99.4	0.48	0.00
T22 Da'na	A	0.008	0.004	-0.008	-0.003	-0.4	0.5	99.9	99.5	0.35	0.00
	B	0.009	0.004	-0.009	-0.004	0.0	0.0	99.8	99.5	0.35	0.00
	C	0.008	0.005	-0.007	-0.004	0.7	0.7	99.9	99.5	0.36	0.00
T23 Kurza	A	0.024	0.010	-0.024	-0.009	0.5	1.0	99.9	98.9	0.92	0.00
	B	0.024	0.009	-0.023	-0.008	0.3	0.8	99.9	99.0	0.87	0.00
	C	0.024	0.009	-0.024	-0.009	-0.1	0.3	99.9	99.0	0.94	0.00
T24 Al-deire 2	A	0.017	0.005	-0.020	-0.009	-3.2	-4.0	99.9	99.1	0.86	0.00
	B	0.017	0.009	-0.015	-0.006	1.8	3.6	99.9	99.4	0.56	0.00
	C	0.013	0.007	-0.011	-0.005	1.9	2.0	100.0	99.5	0.48	0.00
T25 Rasmi wahab	A	0.008	0.004	-0.008	-0.003	-0.4	0.5	100.0	99.6	0.35	0.00
	B	0.009	0.004	-0.009	-0.004	0.0	0.0	100.0	99.6	0.35	0.00
	C	0.008	0.005	-0.007	-0.004	0.7	0.7	100.0	99.6	0.36	0.00
T26 Baten alqar'	A	0.018	0.010	-0.019	-0.009	-0.8	1.0	99.9	99.1	0.85	0.00
	B	0.020	0.010	-0.020	-0.011	0.4	-0.4	99.9	99.0	0.91	0.00
	C	0.019	0.012	-0.018	-0.010	1.0	1.3	100.0	99.1	0.89	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	0.012	0.004	-0.012	-0.004	0.0	-0.4	99.9	99.4	0.47	0.00
	B	0.010	0.005	-0.007	-0.003	2.2	2.4	99.9	99.6	0.28	0.00
	C	0.009	0.002	-0.011	-0.003	-1.8	-0.6	100.0	99.6	0.38	0.00
T28 Domet al_wridat	A	0.024	0.008	-0.022	-0.007	2.2	1.3	99.9	99.0	0.82	0.00
	B	0.021	0.009	-0.020	-0.008	1.3	0.8	99.8	99.1	0.78	0.00
	C	0.023	0.006	-0.025	-0.006	-2.8	0.0	99.9	99.0	0.84	0.00
T29 Juret al_dama	A	0.024	0.010	-0.020	-0.007	4.7	3.4	99.9	99.1	0.77	0.00
	B	0.019	0.007	-0.019	-0.005	-0.3	1.8	99.9	99.3	0.61	0.00
	C	0.025	0.004	-0.029	-0.007	-3.7	-3.2	99.9	99.0	0.95	0.00
T30 Kafar joul	A	0.020	0.006	-0.018	-0.009	1.4	-3.0	99.9	99.0	0.83	0.00
	B	0.015	0.010	-0.012	-0.007	2.7	3.4	99.9	99.3	0.56	0.00
	C	0.013	0.004	-0.017	-0.002	-3.6	1.3	99.9	99.4	0.48	0.00
T31 Sam'a	A	0.004	0.003	-0.004	-0.002	0.3	1.2	99.9	99.7	0.19	0.00
	B	0.005	0.002	-0.005	-0.001	-0.7	0.2	99.9	99.7	0.16	0.00
	C	0.006	0.003	-0.005	-0.003	0.7	-0.2	99.9	99.7	0.26	0.00
T32 Khalet al_ayaseh	A	0.006	0.003	-0.007	-0.002	-0.6	0.5	99.9	99.6	0.28	0.00
	B	0.009	0.002	-0.011	-0.003	-1.6	-1.1	99.9	99.5	0.36	0.00
	C	0.009	0.005	-0.006	-0.003	2.5	1.9	99.9	99.6	0.29	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	0.20	0.00
	C	0.005	0.002	-0.005	-0.001	-0.2	0.8	100.0	99.8	0.19	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	0.20	0.00
	C	0.005	0.002	-0.005	-0.001	-0.2	0.8	100.0	99.8	0.19	0.00
T35 Al_shuqfan	A	0.014	0.005	-0.014	-0.004	0.0	0.3	99.9	99.0	0.94	0.00
	B	0.014	0.005	-0.013	-0.005	0.3	0.3	99.9	99.0	0.91	0.00
	C	0.013	0.005	-0.013	-0.004	0.1	0.6	99.9	99.0	0.91	0.00
T36 Al_estad	A	0.006	0.002	-0.006	-0.002	-0.1	-0.1	99.9	99.6	0.24	0.00
	B	0.006	0.003	-0.005	-0.002	0.6	0.5	99.9	99.7	0.20	0.00
	C	0.005	0.002	-0.005	-0.001	-0.2	0.8	99.9	99.7	0.19	0.00
T37 Eshreeteh	A	0.019	0.006	-0.018	-0.005	0.6	1.6	99.9	99.3	0.62	0.00
	B	0.016	0.005	-0.014	-0.003	1.7	2.6	99.9	99.5	0.41	0.00
	C	0.018	0.003	-0.020	-0.006	-1.8	-2.6	99.9	99.2	0.70	0.00
T38 Al_muhtasib	A	0.012	0.007	-0.010	-0.004	2.8	2.7	99.9	99.5	0.42	0.00
	B	0.011	0.003	-0.013	-0.004	-1.6	-0.3	99.9	99.4	0.43	0.00
	C	0.015	0.004	-0.016	-0.005	-0.8	-1.0	99.9	99.3	0.58	0.00
T39 Jammoq	A	0.019	0.005	-0.018	-0.006	0.4	-1.0	99.9	99.2	0.69	0.00
	B	0.018	0.006	-0.018	-0.005	-0.1	1.4	99.9	99.3	0.57	0.00
	C	0.017	0.005	-0.017	-0.003	0.3	1.3	99.9	99.4	0.54	0.00
T40 Al_helal	A	0.003	0.001	-0.002	-0.001	0.3	-0.1	99.9	99.8	0.13	0.00
	B	0.002	0.002	-0.002	-0.001	0.4	0.8	99.9	99.9	0.06	0.00
	C	0.002	0.001	-0.002	0.000	-0.4	0.5	100.0	99.9	0.08	0.00
T41 Al_muntazah 2	A	0.012	0.004	-0.012	-0.005	0.0	-0.4	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	0.28	0.00
	C	0.010	0.003	-0.011	-0.004	-1.6	-0.9	100.0	99.5	0.42	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	-1.1	99.9	99.5	0.46	0.00
	B	0.011	0.006	-0.009	-0.005	1.9	0.5	99.9	99.5	0.43	0.00
	C	0.009	0.004	-0.009	-0.002	-0.8	1.9	100.0	99.6	0.32	0.00
T43 Al jame'a	A	0.009	0.007	-0.006	-0.003	2.8	4.1	99.9	99.6	0.29	0.00
	B	0.010	0.003	-0.012	-0.005	-2.0	-2.1	99.9	99.4	0.45	0.00
	C	0.013	0.005	-0.014	-0.006	-0.4	-0.6	99.9	99.3	0.58	0.00
T44 Alghwla	A	0.005	0.002	-0.005	-0.002	-0.3	0.2	99.9	99.7	0.21	0.00
	B	0.003	0.003	-0.002	-0.001	1.2	1.5	99.9	99.8	0.08	0.00
	C	0.004	0.001	-0.004	-0.002	-0.6	-0.5	99.9	99.7	0.19	0.00
T45 Masafi	A	0.017	0.006	-0.019	-0.007	-1.7	-1.3	99.9	99.1	0.74	0.00
	B	0.015	0.008	-0.013	-0.004	2.4	3.7	99.9	99.4	0.44	0.00
	C	0.014	0.005	-0.014	-0.006	-0.3	-0.8	99.9	99.3	0.59	0.00
T46 Al_jebreni	A	0.024	0.012	-0.025	-0.013	-0.4	-0.9	99.9	98.7	1.18	0.00
	B	0.024	0.014	-0.024	-0.012	0.3	1.4	99.9	98.8	1.07	0.00
	C	0.023	0.013	-0.022	-0.011	0.9	1.7	99.9	98.9	1.02	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	0.30	0.00
	C	0.005	0.002	-0.006	-0.002	-0.3	-0.1	100.0	99.6	0.39	0.00
T48 Inab al_kabeer	A	0.004	0.002	-0.004	-0.001	-0.1	0.7	99.9	99.6	0.30	0.00
	B	0.005	0.002	-0.006	-0.003	-0.5	-0.8	99.9	99.5	0.42	0.00
	C	0.005	0.003	-0.004	-0.002	0.8	1.0	100.0	99.6	0.35	0.00
T49 Shweki	A	0.004	0.002	-0.004	-0.001	-0.1	0.7	99.9	99.6	0.30	0.00
	B	0.005	0.002	-0.006	-0.003	-0.5	-0.8	99.9	99.5	0.42	0.00
	C	0.005	0.003	-0.004	-0.002	0.8	1.0	99.9	99.6	0.35	0.00
T50 Al-baha	A	0.019	0.006	-0.017	-0.008	1.1	-1.5	99.9	98.5	1.37	0.00
	B	0.017	0.008	-0.017	-0.007	0.0	1.2	99.9	98.7	1.23	0.00
	C	0.017	0.006	-0.017	-0.004	-0.4	1.8	99.9	98.9	1.08	0.00
T51 Inab al_sagher	A	0.019	0.006	-0.019	-0.006	-0.3	0.5	99.9	98.6	1.29	0.00
	B	0.018	0.008	-0.015	-0.007	2.5	1.2	99.9	98.8	1.13	0.00
	C	0.017	0.006	-0.018	-0.006	-1.4	-0.1	99.9	98.7	1.27	0.00
T52 Bank al_eskan	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	0.30	0.00
	C	0.005	0.002	-0.006	-0.002	-0.3	-0.1	99.9	99.5	0.39	0.00
T53 Al_tork	A	0.020	0.025	-0.022	-0.022	-2.1	3.1	99.9	99.3	0.55	0.00
	B	0.026	0.024	-0.026	-0.026	-0.3	-2.2	99.8	99.2	0.62	0.00
	C	0.023	0.030	-0.020	-0.027	3.3	2.8	99.9	99.2	0.64	0.00
T54 Wad algamary 3	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	-0.1	100.0	99.6	0.39	0.00
T55 Mana'	A	0.006	0.005	-0.006	-0.005	-0.2	-0.2	99.9	99.5	0.38	0.00
	B	0.005	0.005	-0.004	-0.003	0.7	1.7	99.9	99.6	0.24	0.00
	C	0.005	0.004	-0.005	-0.004	-0.2	-0.2	99.9	99.6	0.33	0.00
T56 Al jebreny step up	A	0.127	0.061	-0.124	-0.057	2.2	4.3	99.7	99.9	0.15	0.00
	B	0.127	0.061	-0.124	-0.057	2.3	4.0	99.8	99.9	0.12	0.00
	C	0.127	0.061	-0.124	-0.057	2.5	4.1	99.8	99.9	0.15	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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