

Project:
Location:
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Filename: BALANCE LAOD avareg

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	0.140	0.030	-0.140	-0.030	0.0	0.0	99.8	99.8	0.00	0.00
	B	0.140	0.030	-0.140	-0.030	0.0	0.0	99.8	99.8	0.00	0.00
	C	0.140	0.030	-0.140	-0.030	0.0	0.0	99.8	99.8	0.00	0.00
C56	A	0.144	0.032	-0.144	-0.032	0.0	0.0	99.9	99.9	0.00	0.00
	B	0.144	0.032	-0.144	-0.032	0.0	0.0	99.9	99.9	0.00	0.00
	C	0.144	0.032	-0.144	-0.032	0.0	0.0	99.9	99.9	0.00	0.00
C59	A	0.526	0.101	-0.526	-0.101	0.0	0.0	99.9	99.9	0.00	0.00
	B	0.526	0.101	-0.526	-0.101	0.0	0.0	99.9	99.9	0.00	0.00
	C	0.526	0.101	-0.526	-0.101	0.0	0.0	99.9	99.9	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	99.8	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
C61	A	0.627	0.127	-0.627	-0.127	0.0	0.0	100.0	100.0	0.00	0.00
	B	0.627	0.127	-0.627	-0.127	0.0	0.0	100.0	100.0	0.00	0.00
	C	0.627	0.127	-0.627	-0.127	0.0	0.0	100.0	100.0	0.00	0.00
C80	A	0.107	0.020	-0.107	-0.020	0.0	0.0	99.9	99.9	0.00	0.00
	B	0.107	0.020	-0.107	-0.020	0.0	0.0	99.9	99.9	0.00	0.00
	C	0.107	0.020	-0.107	-0.020	0.0	0.0	99.9	99.9	0.00	0.00
C96	A	1.275	0.239	-1.275	-0.239	0.1	0.1	100.0	100.0	0.01	0.00
	B	1.275	0.239	-1.275	-0.239	0.1	0.1	100.0	100.0	0.01	0.00
	C	1.275	0.239	-1.275	-0.239	0.1	0.1	100.0	100.0	0.01	0.00
C97	A	0.828	0.145	-0.828	-0.145	0.1	0.0	99.8	99.8	0.01	0.00
	B	0.828	0.145	-0.828	-0.145	0.1	0.0	99.8	99.8	0.01	0.00
	C	0.828	0.145	-0.828	-0.145	0.1	0.0	99.8	99.8	0.01	0.00
C100	A	0.033	0.006	-0.033	-0.006	0.0	0.0	99.8	99.8	0.00	0.00
	B	0.033	0.006	-0.033	-0.006	0.0	0.0	99.8	99.8	0.00	0.00
	C	0.033	0.006	-0.033	-0.006	0.0	0.0	99.8	99.8	0.00	0.00
C107	A	0.057	0.011	-0.057	-0.011	0.0	0.0	99.7	99.7	0.00	0.00
	B	0.057	0.011	-0.057	-0.011	0.0	0.0	99.7	99.7	0.00	0.00
	C	0.057	0.011	-0.057	-0.011	0.0	0.0	99.7	99.7	0.00	0.00
C117	A	0.139	0.044	-0.139	-0.044	0.0	0.0	99.7	99.7	0.00	0.00
	B	0.139	0.044	-0.139	-0.044	0.0	0.0	99.7	99.7	0.00	0.00
	C	0.139	0.044	-0.139	-0.044	0.0	0.0	99.7	99.7	0.00	0.00
C120	A	0.688	0.121	-0.688	-0.121	0.1	0.0	99.8	99.8	0.01	0.00
	B	0.688	0.121	-0.688	-0.121	0.1	0.0	99.8	99.8	0.01	0.00
	C	0.688	0.121	-0.688	-0.121	0.1	0.0	99.8	99.8	0.01	0.00
C128	A	1.094	0.199	-1.094	-0.199	0.1	0.1	99.9	99.9	0.01	0.00
	B	1.094	0.199	-1.094	-0.199	0.1	0.1	99.9	99.9	0.01	0.00
	C	1.094	0.199	-1.094	-0.199	0.1	0.1	99.9	99.9	0.01	0.00
C160	A	0.842	0.147	-0.842	-0.147	0.1	0.1	99.8	99.8	0.01	0.00
	B	0.842	0.147	-0.842	-0.147	0.1	0.1	99.8	99.8	0.01	0.00
	C	0.842	0.147	-0.842	-0.147	0.1	0.1	99.8	99.8	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	0.987	0.179	-0.987	-0.179	0.1	0.1	99.9	99.9	0.02	0.00
	B	0.987	0.179	-0.987	-0.179	0.1	0.1	99.9	99.9	0.02	0.00
	C	0.987	0.179	-0.987	-0.179	0.1	0.1	99.9	99.9	0.02	0.00
C163	A	0.398	0.068	-0.398	-0.068	0.0	0.0	99.8	99.8	0.01	0.00
	B	0.398	0.068	-0.398	-0.068	0.0	0.0	99.8	99.8	0.01	0.00
	C	0.398	0.068	-0.398	-0.068	0.0	0.0	99.8	99.8	0.01	0.00
C191	A	0.842	0.147	-0.842	-0.147	0.1	0.1	99.9	99.8	0.02	0.00
	B	0.842	0.147	-0.842	-0.147	0.1	0.1	99.9	99.8	0.02	0.00
	C	0.842	0.147	-0.842	-0.147	0.1	0.1	99.9	99.8	0.02	0.00
C193	A	0.024	0.004	-0.024	-0.004	0.0	0.0	99.9	99.9	0.00	0.00
	B	0.024	0.004	-0.024	-0.004	0.0	0.0	99.9	99.9	0.00	0.00
	C	0.024	0.004	-0.024	-0.004	0.0	0.0	99.9	99.9	0.00	0.00
C203	A	0.097	-0.009	-0.097	0.009	0.0	0.0	99.7	99.7	0.00	0.00
	B	0.097	-0.009	-0.097	0.009	0.0	0.0	99.7	99.7	0.00	0.00
	C	0.097	-0.009	-0.097	0.009	0.0	0.0	99.7	99.7	0.00	0.00
C216	A	0.688	0.121	-0.688	-0.121	0.1	0.1	99.8	99.8	0.01	0.00
	B	0.688	0.121	-0.688	-0.121	0.1	0.1	99.8	99.8	0.01	0.00
	C	0.688	0.121	-0.688	-0.121	0.1	0.1	99.8	99.8	0.01	0.00
C246	A	1.128	0.205	-1.128	-0.205	0.3	0.2	99.9	99.9	0.03	0.00
	B	1.128	0.205	-1.128	-0.205	0.3	0.2	99.9	99.9	0.03	0.00
	C	1.128	0.205	-1.128	-0.205	0.3	0.2	99.9	99.9	0.03	0.00
C280	A	0.035	0.004	-0.035	-0.004	0.0	0.0	99.8	99.8	0.00	0.00
	B	0.035	0.004	-0.035	-0.004	0.0	0.0	99.8	99.8	0.00	0.00
	C	0.035	0.004	-0.035	-0.004	0.0	0.0	99.8	99.8	0.00	0.00
C319	A	0.034	0.025	-0.034	-0.025	0.0	0.0	99.7	99.7	0.00	0.00
	B	0.034	0.025	-0.034	-0.025	0.0	0.0	99.7	99.7	0.00	0.00
	C	0.034	0.025	-0.034	-0.025	0.0	0.0	99.7	99.7	0.00	0.00
C322	A	0.097	-0.009	-0.097	0.009	0.0	0.0	99.7	99.7	0.00	0.00
	B	0.097	-0.009	-0.097	0.009	0.0	0.0	99.7	99.7	0.00	0.00
	C	0.097	-0.009	-0.097	0.009	0.0	0.0	99.7	99.7	0.00	0.00
C330	A	0.014	0.002	-0.014	-0.002	0.0	0.0	99.9	99.9	0.00	0.00
	B	0.014	0.002	-0.014	-0.002	0.0	0.0	99.9	99.9	0.00	0.00
	C	0.014	0.002	-0.014	-0.002	0.0	0.0	99.9	99.9	0.00	0.00
C352	A	0.265	0.048	-0.265	-0.048	0.0	0.0	99.8	99.8	0.01	0.00
	B	0.265	0.048	-0.265	-0.048	0.0	0.0	99.8	99.8	0.01	0.00
	C	0.265	0.048	-0.265	-0.048	0.0	0.0	99.8	99.8	0.01	0.00
C361	A	0.559	0.095	-0.559	-0.095	0.1	0.1	99.8	99.8	0.02	0.00
	B	0.559	0.095	-0.559	-0.095	0.1	0.1	99.8	99.8	0.02	0.00
	C	0.559	0.095	-0.559	-0.095	0.1	0.1	99.8	99.8	0.02	0.00
C365	A	0.359	0.065	-0.359	-0.065	0.0	0.0	99.8	99.8	0.01	0.00
	B	0.359	0.065	-0.359	-0.065	0.0	0.0	99.8	99.8	0.01	0.00
	C	0.359	0.065	-0.359	-0.065	0.0	0.0	99.8	99.8	0.01	0.00
C368	A	0.069	0.017	-0.069	-0.017	0.0	0.0	99.8	99.8	0.00	0.00
	B	0.069	0.017	-0.069	-0.017	0.0	0.0	99.8	99.8	0.00	0.00
	C	0.069	0.017	-0.069	-0.017	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		
C399	A	0.169	0.055	-0.169	-0.055	0.0	0.0	99.7	99.7	0.01	0.00
	B	0.169	0.055	-0.169	-0.055	0.0	0.0	99.7	99.7	0.01	0.00
	C	0.169	0.055	-0.169	-0.055	0.0	0.0	99.7	99.7	0.01	0.00
C409	A	0.039	0.003	-0.039	-0.003	0.0	0.0	99.8	99.8	0.00	0.00
	B	0.039	0.003	-0.039	-0.003	0.0	0.0	99.8	99.8	0.00	0.00
	C	0.039	0.003	-0.039	-0.003	0.0	0.0	99.8	99.8	0.00	0.00
C419	A	0.035	0.004	-0.035	-0.004	0.0	0.0	99.8	99.8	0.00	0.00
	B	0.035	0.004	-0.035	-0.004	0.0	0.0	99.8	99.8	0.00	0.00
	C	0.035	0.004	-0.035	-0.004	0.0	0.0	99.8	99.8	0.00	0.00
C422	A	0.089	0.016	-0.089	-0.016	0.0	0.0	99.9	99.9	0.00	0.00
	B	0.089	0.016	-0.089	-0.016	0.0	0.0	99.9	99.9	0.00	0.00
	C	0.089	0.016	-0.089	-0.016	0.0	0.0	99.9	99.9	0.00	0.00
C440	A	0.012	0.002	-0.012	-0.002	0.0	0.0	99.8	99.8	0.00	0.00
	B	0.012	0.002	-0.012	-0.002	0.0	0.0	99.8	99.8	0.00	0.00
	C	0.012	0.002	-0.012	-0.002	0.0	0.0	99.8	99.8	0.00	0.00
C450	A	0.046	0.001	-0.046	-0.001	0.0	0.0	99.8	99.8	0.00	0.00
	B	0.046	0.001	-0.046	-0.001	0.0	0.0	99.8	99.8	0.00	0.00
	C	0.046	0.001	-0.046	-0.001	0.0	0.0	99.8	99.8	0.00	0.00
C.450	A	-0.087	-0.041	0.087	0.041	0.0	0.0	99.7	99.8	0.00	0.00
	B	-0.087	-0.041	0.087	0.041	0.0	0.0	99.7	99.8	0.00	0.00
	C	-0.087	-0.041	0.087	0.041	0.0	0.0	99.7	99.8	0.00	0.00
C461	A	0.019	0.004	-0.019	-0.004	0.0	0.0	99.7	99.7	0.00	0.00
	B	0.019	0.004	-0.019	-0.004	0.0	0.0	99.7	99.7	0.00	0.00
	C	0.019	0.004	-0.019	-0.004	0.0	0.0	99.7	99.7	0.00	0.00
C462	A	0.053	0.008	-0.053	-0.008	0.0	0.0	99.8	99.8	0.00	0.00
	B	0.053	0.008	-0.053	-0.008	0.0	0.0	99.8	99.8	0.00	0.00
	C	0.053	0.008	-0.053	-0.008	0.0	0.0	99.8	99.8	0.00	0.00
C463	A	0.014	0.002	-0.014	-0.002	0.0	0.0	99.9	99.9	0.00	0.00
	B	0.014	0.002	-0.014	-0.002	0.0	0.0	99.9	99.9	0.00	0.00
	C	0.014	0.002	-0.014	-0.002	0.0	0.0	99.9	99.9	0.00	0.00
C473	A	1.236	0.231	-1.236	-0.230	0.7	0.5	100.0	99.9	0.06	0.00
	B	1.236	0.231	-1.236	-0.230	0.7	0.5	100.0	99.9	0.06	0.00
	C	1.236	0.231	-1.236	-0.230	0.7	0.5	100.0	99.9	0.06	0.00
C476	A	0.072	0.013	-0.072	-0.013	0.0	0.0	99.7	99.7	0.00	0.00
	B	0.072	0.013	-0.072	-0.013	0.0	0.0	99.7	99.7	0.00	0.00
	C	0.072	0.013	-0.072	-0.013	0.0	0.0	99.7	99.7	0.00	0.00
C514	A	0.123	0.022	-0.123	-0.022	0.0	0.0	99.9	99.9	0.01	0.00
	B	0.123	0.022	-0.123	-0.022	0.0	0.0	99.9	99.9	0.01	0.00
	C	0.123	0.022	-0.123	-0.022	0.0	0.0	99.9	99.9	0.01	0.00
C517	A	-0.040	-0.035	0.040	0.035	0.0	0.0	99.7	99.7	0.00	0.00
	B	-0.040	-0.035	0.040	0.035	0.0	0.0	99.7	99.7	0.00	0.00
	C	-0.040	-0.035	0.040	0.035	0.0	0.0	99.7	99.7	0.00	0.00
C518	A	-0.001	-0.027	0.001	0.027	0.0	0.0	99.7	99.7	0.00	0.00
	B	-0.001	-0.027	0.001	0.027	0.0	0.0	99.7	99.7	0.00	0.00
	C	-0.001	-0.027	0.001	0.027	0.0	0.0	99.7	99.7	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	0.109	0.020	-0.109	-0.020	0.0	0.0	99.9	99.9	0.01	0.00
	B	0.109	0.020	-0.109	-0.020	0.0	0.0	99.9	99.9	0.01	0.00
	C	0.109	0.020	-0.109	-0.020	0.0	0.0	99.9	99.9	0.01	0.00
C558	A	0.029	0.005	-0.029	-0.005	0.0	0.0	99.8	99.8	0.00	0.00
	B	0.029	0.005	-0.029	-0.005	0.0	0.0	99.8	99.8	0.00	0.00
	C	0.029	0.005	-0.029	-0.005	0.0	0.0	99.8	99.8	0.00	0.00
C577	A	0.055	-0.017	-0.055	0.017	0.0	0.0	99.7	99.7	0.00	0.00
	B	0.055	-0.017	-0.055	0.017	0.0	0.0	99.7	99.7	0.00	0.00
	C	0.055	-0.017	-0.055	0.017	0.0	0.0	99.7	99.7	0.00	0.00
C587	A	0.041	0.007	-0.041	-0.007	0.0	0.0	99.7	99.7	0.00	0.00
	B	0.041	0.007	-0.041	-0.007	0.0	0.0	99.7	99.7	0.00	0.00
	C	0.041	0.007	-0.041	-0.007	0.0	0.0	99.7	99.7	0.00	0.00
C603	A	0.323	0.058	-0.322	-0.058	0.1	0.0	99.8	99.7	0.02	0.00
	B	0.323	0.058	-0.322	-0.058	0.1	0.0	99.8	99.7	0.02	0.00
	C	0.323	0.058	-0.322	-0.058	0.1	0.0	99.8	99.7	0.02	0.00
C622	A	0.031	0.007	-0.031	-0.007	0.0	0.0	99.9	99.9	0.00	0.00
	B	0.031	0.007	-0.031	-0.007	0.0	0.0	99.9	99.9	0.00	0.00
	C	0.031	0.007	-0.031	-0.007	0.0	0.0	99.9	99.9	0.00	0.00
C727	A	0.051	0.009	-0.051	-0.009	0.0	0.0	99.9	99.9	0.00	0.00
	B	0.051	0.009	-0.051	-0.009	0.0	0.0	99.9	99.9	0.00	0.00
	C	0.051	0.009	-0.051	-0.009	0.0	0.0	99.9	99.9	0.00	0.00
C728	A	0.084	0.014	-0.084	-0.014	0.0	0.0	99.8	99.8	0.01	0.00
	B	0.084	0.014	-0.084	-0.014	0.0	0.0	99.8	99.8	0.01	0.00
	C	0.084	0.014	-0.084	-0.014	0.0	0.0	99.8	99.8	0.01	0.00
C806	A	0.236	0.043	-0.236	-0.043	0.0	0.0	99.8	99.8	0.02	0.00
	B	0.236	0.043	-0.236	-0.043	0.0	0.0	99.8	99.8	0.02	0.00
	C	0.236	0.043	-0.236	-0.043	0.0	0.0	99.8	99.8	0.02	0.00
C811	A	0.070	0.012	-0.070	-0.012	0.0	0.0	99.8	99.8	0.01	0.00
	B	0.070	0.012	-0.070	-0.012	0.0	0.0	99.8	99.8	0.01	0.00
	C	0.070	0.012	-0.070	-0.012	0.0	0.0	99.8	99.8	0.01	0.00
C815	A	-0.066	-0.037	0.066	0.037	0.0	0.0	99.7	99.7	0.01	0.00
	B	-0.066	-0.037	0.066	0.037	0.0	0.0	99.7	99.7	0.01	0.00
	C	-0.066	-0.037	0.066	0.037	0.0	0.0	99.7	99.7	0.01	0.00
C880	A	-0.087	-0.041	0.087	0.041	0.0	0.0	99.8	99.8	0.01	0.00
	B	-0.087	-0.041	0.087	0.041	0.0	0.0	99.8	99.8	0.01	0.00
	C	-0.087	-0.041	0.087	0.041	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	99.8	99.8	0.00	0.00
Co57	A	0.034	0.025	-0.034	-0.025	0.0	0.0	99.7	99.7	0.00	0.00
	B	0.034	0.025	-0.034	-0.025	0.0	0.0	99.7	99.7	0.00	0.00
	C	0.034	0.025	-0.034	-0.025	0.0	0.0	99.7	99.7	0.00	0.00
Co58	A	0.071	0.012	-0.071	-0.012	0.0	0.0	99.9	99.9	0.00	0.00
	B	0.071	0.012	-0.071	-0.012	0.0	0.0	99.9	99.9	0.00	0.00
	C	0.071	0.012	-0.071	-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	0.404	0.079	-0.404	-0.079	0.0	0.0	99.9	99.9	0.00	0.00
	B	0.404	0.079	-0.404	-0.079	0.0	0.0	99.9	99.9	0.00	0.00
	C	0.404	0.079	-0.404	-0.079	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	99.8	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
Co261	A	0.025	0.003	-0.025	-0.003	0.0	0.0	99.8	99.8	0.00	0.00
	B	0.025	0.003	-0.025	-0.003	0.0	0.0	99.8	99.8	0.00	0.00
	C	0.025	0.003	-0.025	-0.003	0.0	0.0	99.8	99.8	0.00	0.00
Co294	A	0.052	0.009	-0.052	-0.009	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	99.9	99.9	0.00	0.00
	C	0.052	0.009	-0.052	-0.009	0.0	0.0	99.9	99.9	0.00	0.00
Co528	A	0.012	0.001	-0.012	-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	0.012	0.001	-0.012	-0.001	0.0	0.0	99.8	99.8	0.00	0.00
Co600	A	0.404	0.079	-0.404	-0.079	0.1	0.1	99.9	99.9	0.02	0.00
	B	0.404	0.079	-0.404	-0.079	0.1	0.1	99.9	99.9	0.02	0.00
	C	0.404	0.079	-0.404	-0.079	0.1	0.1	99.9	99.9	0.02	0.00
Co645	A	0.025	0.003	-0.025	-0.003	0.0	0.0	99.8	99.8	0.00	0.00
	B	0.025	0.003	-0.025	-0.003	0.0	0.0	99.8	99.8	0.00	0.00
	C	0.025	0.003	-0.025	-0.003	0.0	0.0	99.8	99.8	0.00	0.00
Co999	A	0.066	0.011	-0.066	-0.011	0.0	0.0	99.9	99.9	0.00	0.00
	B	0.066	0.011	-0.066	-0.011	0.0	0.0	99.9	99.9	0.00	0.00
	C	0.066	0.011	-0.066	-0.011	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	99.8	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
D240	A	0.012	0.002	-0.012	-0.002	0.0	0.0	99.9	99.9	0.00	0.00
	B	0.012	0.002	-0.012	-0.002	0.0	0.0	99.9	99.9	0.00	0.00
	C	0.012	0.002	-0.012	-0.002	0.0	0.0	99.9	99.9	0.00	0.00
D256	A	0.012	0.002	-0.012	-0.002	0.0	0.0	99.9	99.9	0.00	0.00
	B	0.012	0.002	-0.012	-0.002	0.0	0.0	99.9	99.9	0.00	0.00
	C	0.012	0.002	-0.012	-0.002	0.0	0.0	99.9	99.9	0.00	0.00
D276	A	0.012	0.002	-0.012	-0.002	0.0	0.0	99.9	99.9	0.00	0.00
	B	0.012	0.002	-0.012	-0.002	0.0	0.0	99.9	99.9	0.00	0.00
	C	0.012	0.002	-0.012	-0.002	0.0	0.0	99.9	99.9	0.00	0.00
D634	A	0.032	0.006	-0.032	-0.006	0.0	0.0	99.9	99.9	0.00	0.00
	B	0.032	0.006	-0.032	-0.006	0.0	0.0	99.9	99.9	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
D655	A	0.052	0.009	-0.052	-0.009	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	99.9	99.9	0.00	0.00
	C	0.052	0.009	-0.052	-0.009	0.0	0.0	99.9	99.9	0.00	0.00
D711	A	0.052	0.009	-0.052	-0.009	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	99.9	99.9	0.00	0.00
	C	0.052	0.009	-0.052	-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		
D718	A	0.012	0.002	-0.012	-0.002	0.0	0.0	99.9	99.9	0.00	0.00
	B	0.012	0.002	-0.012	-0.002	0.0	0.0	99.9	99.9	0.00	0.00
	C	0.012	0.002	-0.012	-0.002	0.0	0.0	99.9	99.9	0.00	0.00
R10	A	0.012	0.001	-0.012	-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	0.012	0.001	-0.012	-0.001	0.0	0.0	99.8	99.8	0.00	0.00
R36	A	1.903	0.366	-1.902	-0.366	0.2	0.1	100.0	100.0	0.01	0.00
	B	1.903	0.366	-1.902	-0.366	0.2	0.1	100.0	100.0	0.01	0.00
	C	1.903	0.366	-1.902	-0.366	0.2	0.1	100.0	100.0	0.01	0.00
R45	A	0.140	0.030	-0.140	-0.030	0.0	0.0	99.8	99.8	0.00	0.00
	B	0.140	0.030	-0.140	-0.030	0.0	0.0	99.8	99.8	0.00	0.00
	C	0.140	0.030	-0.140	-0.030	0.0	0.0	99.8	99.8	0.00	0.00
R106	A	0.627	0.127	-0.627	-0.127	0.1	0.0	100.0	100.0	0.01	0.00
	B	0.627	0.127	-0.627	-0.127	0.1	0.0	100.0	100.0	0.01	0.00
	C	0.627	0.127	-0.627	-0.127	0.1	0.0	100.0	100.0	0.01	0.00
R150	A	0.140	0.030	-0.140	-0.030	0.0	0.0	99.8	99.8	0.00	0.00
	B	0.140	0.030	-0.140	-0.030	0.0	0.0	99.8	99.8	0.00	0.00
	C	0.140	0.030	-0.140	-0.030	0.0	0.0	99.8	99.8	0.00	0.00
R164	A	0.283	0.055	-0.283	-0.055	0.0	0.0	99.9	99.9	0.01	0.00
	B	0.283	0.055	-0.283	-0.055	0.0	0.0	99.9	99.9	0.01	0.00
	C	0.283	0.055	-0.283	-0.055	0.0	0.0	99.9	99.9	0.01	0.00
R190	A	0.598	0.117	-0.598	-0.117	0.1	0.1	100.0	100.0	0.02	0.00
	B	0.598	0.117	-0.598	-0.117	0.1	0.1	100.0	100.0	0.02	0.00
	C	0.598	0.117	-0.598	-0.117	0.1	0.1	100.0	100.0	0.02	0.00
R380	A	0.140	0.030	-0.140	-0.030	0.0	0.0	99.8	99.8	0.01	0.00
	B	0.140	0.030	-0.140	-0.030	0.0	0.0	99.8	99.8	0.01	0.00
	C	0.140	0.030	-0.140	-0.030	0.0	0.0	99.8	99.8	0.01	0.00
R410	A	0.012	0.002	-0.012	-0.002	0.0	0.0	99.8	99.8	0.00	0.00
	B	0.012	0.002	-0.012	-0.002	0.0	0.0	99.8	99.8	0.00	0.00
	C	0.012	0.002	-0.012	-0.002	0.0	0.0	99.8	99.8	0.00	0.00
R436	A	0.598	0.117	-0.598	-0.117	0.2	0.2	100.0	99.9	0.04	0.00
	B	0.598	0.117	-0.598	-0.117	0.2	0.2	100.0	99.9	0.04	0.00
	C	0.598	0.117	-0.598	-0.117	0.2	0.2	100.0	99.9	0.04	0.00
R455	A	0.024	0.004	-0.024	-0.004	0.0	0.0	99.9	99.9	0.00	0.00
	B	0.024	0.004	-0.024	-0.004	0.0	0.0	99.9	99.9	0.00	0.00
	C	0.024	0.004	-0.024	-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	99.7	99.7	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	99.7	99.7	0.00	0.00
R734	A	0.283	0.055	-0.283	-0.055	0.1	0.1	99.9	99.8	0.03	0.00
	B	0.283	0.055	-0.283	-0.055	0.1	0.1	99.9	99.8	0.03	0.00
	C	0.283	0.055	-0.283	-0.055	0.1	0.1	99.9	99.8	0.03	0.00
R803	A	0.039	0.008	-0.039	-0.008	0.0	0.0	99.7	99.7	0.01	0.00
	B	0.039	0.008	-0.039	-0.008	0.0	0.0	99.7	99.7	0.01	0.00
	C	0.039	0.008	-0.039	-0.008	0.0	0.0	99.7	99.7	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		
R844	A	0.014	0.002	-0.014	-0.002	0.0	0.0	99.9	99.9	0.00	0.00
	B	0.014	0.002	-0.014	-0.002	0.0	0.0	99.9	99.9	0.00	0.00
	C	0.014	0.002	-0.014	-0.002	0.0	0.0	99.9	99.9	0.00	0.00
R950	A	0.051	0.009	-0.051	-0.009	0.0	0.0	99.9	99.8	0.01	0.00
	B	0.051	0.009	-0.051	-0.009	0.0	0.0	99.9	99.8	0.01	0.00
	C	0.051	0.009	-0.051	-0.009	0.0	0.0	99.9	99.8	0.01	0.00
R1435	A	0.056	0.007	-0.056	-0.007	0.0	0.0	99.8	99.8	0.01	0.00
	B	0.056	0.007	-0.056	-0.007	0.0	0.0	99.8	99.8	0.01	0.00
	C	0.056	0.007	-0.056	-0.007	0.0	0.0	99.8	99.8	0.01	0.00
R1499	A	0.012	0.002	-0.012	-0.002	0.0	0.0	99.8	99.8	0.00	0.00
	B	0.012	0.002	-0.012	-0.002	0.0	0.0	99.8	99.8	0.00	0.00
	C	0.012	0.002	-0.012	-0.002	0.0	0.0	99.8	99.8	0.00	0.00
T1 Al-masjid Al_kaber	A	0.094	0.023	-0.093	-0.020	0.6	2.9	99.9	99.1	0.76	0.00
	B	0.094	0.023	-0.093	-0.020	0.6	2.9	99.9	99.1	0.76	0.00
	C	0.094	0.023	-0.093	-0.020	0.6	2.9	99.9	99.1	0.76	0.00
T2 Mothalath Al_borg	A	0.094	0.023	-0.093	-0.020	0.6	2.9	99.9	99.2	0.76	0.00
	B	0.094	0.023	-0.093	-0.020	0.6	2.9	99.9	99.2	0.76	0.00
	C	0.094	0.023	-0.093	-0.020	0.6	2.9	99.9	99.2	0.76	0.00
T3 Maskaneh	A	0.094	0.023	-0.093	-0.020	0.6	2.9	99.8	99.1	0.76	0.00
	B	0.094	0.023	-0.093	-0.020	0.6	2.9	99.8	99.1	0.76	0.00
	C	0.094	0.023	-0.093	-0.020	0.6	2.9	99.8	99.1	0.76	0.00
T4 Bear mtawi'	A	0.072	0.016	-0.071	-0.014	0.4	2.1	99.9	99.4	0.54	0.00
	B	0.072	0.016	-0.071	-0.014	0.4	2.1	99.9	99.4	0.54	0.00
	C	0.072	0.016	-0.071	-0.014	0.4	2.1	99.9	99.4	0.54	0.00
T5 Wad algamary 1	A	0.065	0.012	-0.064	-0.010	0.5	2.0	99.9	99.0	0.88	0.00
	B	0.065	0.012	-0.064	-0.010	0.5	2.0	99.9	99.0	0.88	0.00
	C	0.065	0.012	-0.064	-0.010	0.5	2.0	99.9	99.0	0.88	0.00
T6 Wad algamary 2	A	0.024	0.004	-0.024	-0.003	0.2	0.7	99.9	99.2	0.66	0.00
	B	0.024	0.004	-0.024	-0.003	0.2	0.7	99.9	99.2	0.66	0.00
	C	0.024	0.004	-0.024	-0.003	0.2	0.7	99.9	99.2	0.66	0.00
T7 Al_deir 1	A	0.076	0.013	-0.075	-0.011	0.6	2.5	99.9	98.9	1.00	0.00
	B	0.076	0.013	-0.075	-0.011	0.6	2.5	99.9	98.9	1.00	0.00
	C	0.076	0.013	-0.075	-0.011	0.6	2.5	99.9	98.9	1.00	0.00
T8 Karam al_ashqar	A	0.040	0.007	-0.040	-0.006	0.3	1.2	99.8	99.3	0.53	0.00
	B	0.040	0.007	-0.040	-0.006	0.3	1.2	99.8	99.3	0.53	0.00
	C	0.040	0.007	-0.040	-0.006	0.3	1.2	99.8	99.3	0.53	0.00
T9 Abu al_humas	A	0.076	0.013	-0.075	-0.011	0.6	2.5	99.8	98.8	1.00	0.00
	B	0.076	0.013	-0.075	-0.011	0.6	2.5	99.8	98.8	1.00	0.00
	C	0.076	0.013	-0.075	-0.011	0.6	2.5	99.8	98.8	1.00	0.00
T10 Meqtaa' duma	A	0.057	0.012	-0.057	-0.010	0.4	1.7	99.7	98.9	0.83	0.00
	B	0.057	0.012	-0.057	-0.010	0.4	1.7	99.7	98.9	0.83	0.00
	C	0.057	0.012	-0.057	-0.010	0.4	1.7	99.7	98.9	0.83	0.00
T11 Wad ali	A	0.058	0.010	-0.058	-0.008	0.4	1.8	99.8	99.0	0.76	0.00
	B	0.058	0.010	-0.058	-0.008	0.4	1.8	99.8	99.0	0.76	0.00
	C	0.058	0.010	-0.058	-0.008	0.4	1.8	99.8	99.0	0.76	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	0.057	0.011	-0.056	-0.009	0.6	1.7	99.7	98.7	1.01	0.00
	B	0.057	0.011	-0.056	-0.009	0.6	1.7	99.7	98.7	1.01	0.00
	C	0.057	0.011	-0.056	-0.009	0.6	1.7	99.7	98.7	1.01	0.00
T13 Qata't al_jamal	A	0.031	0.006	-0.031	-0.005	0.2	1.0	99.8	99.3	0.44	0.00
	B	0.031	0.006	-0.031	-0.005	0.2	1.0	99.8	99.3	0.44	0.00
	C	0.031	0.006	-0.031	-0.005	0.2	1.0	99.8	99.3	0.44	0.00
T14 Al_markaz	A	0.033	0.006	-0.032	-0.005	0.3	1.0	99.8	99.4	0.45	0.00
	B	0.033	0.006	-0.032	-0.005	0.3	1.0	99.8	99.4	0.45	0.00
	C	0.033	0.006	-0.032	-0.005	0.3	1.0	99.8	99.4	0.45	0.00
T15 Abu hashim	A	0.069	0.017	-0.069	-0.015	0.6	2.3	99.8	98.7	1.08	0.00
	B	0.069	0.017	-0.069	-0.015	0.6	2.3	99.8	98.7	1.08	0.00
	C	0.069	0.017	-0.069	-0.015	0.6	2.3	99.8	98.7	1.08	0.00
T16 Sa'ada	A	0.034	0.006	-0.034	-0.005	0.3	1.0	99.7	99.3	0.44	0.00
	B	0.034	0.006	-0.034	-0.005	0.3	1.0	99.7	99.3	0.44	0.00
	C	0.034	0.006	-0.034	-0.005	0.3	1.0	99.7	99.3	0.44	0.00
T17 Al_baladiya	A	0.034	0.006	-0.034	-0.005	0.3	1.0	99.9	99.4	0.44	0.00
	B	0.034	0.006	-0.034	-0.005	0.3	1.0	99.9	99.4	0.44	0.00
	C	0.034	0.006	-0.034	-0.005	0.3	1.0	99.9	99.4	0.44	0.00
T18 Al_sheehk	A	0.097	0.019	-0.096	-0.015	0.9	3.7	99.8	98.5	1.33	0.00
	B	0.097	0.019	-0.096	-0.015	0.9	3.7	99.8	98.5	1.33	0.00
	C	0.097	0.019	-0.096	-0.015	0.9	3.7	99.8	98.5	1.33	0.00
T19 Kerbit alama	A	0.026	0.002	-0.026	-0.001	0.2	0.7	99.7	99.2	0.57	0.00
	B	0.026	0.002	-0.026	-0.001	0.2	0.7	99.7	99.2	0.57	0.00
	C	0.026	0.002	-0.026	-0.001	0.2	0.7	99.7	99.2	0.57	0.00
T20 Aqabit al_tarsha	A	0.039	0.008	-0.038	-0.007	0.4	1.2	100.0	98.8	1.13	0.00
	B	0.039	0.008	-0.038	-0.007	0.4	1.2	100.0	98.8	1.13	0.00
	C	0.039	0.008	-0.038	-0.007	0.4	1.2	100.0	98.8	1.13	0.00
T21 Al_mustashfah	A	0.031	0.007	-0.031	-0.006	0.3	0.9	99.7	98.8	0.91	0.00
	B	0.031	0.007	-0.031	-0.006	0.3	0.9	99.7	98.8	0.91	0.00
	C	0.031	0.007	-0.031	-0.006	0.3	0.9	99.7	98.8	0.91	0.00
T22 Da'na	A	0.029	0.010	-0.029	-0.009	0.3	0.9	99.7	98.7	1.06	0.00
	B	0.029	0.010	-0.029	-0.009	0.3	0.9	99.7	98.7	1.06	0.00
	C	0.029	0.010	-0.029	-0.009	0.3	0.9	99.7	98.7	1.06	0.00
T23 Kurza	A	0.039	0.008	-0.038	-0.007	0.4	1.2	99.7	98.6	1.13	0.00
	B	0.039	0.008	-0.038	-0.007	0.4	1.2	99.7	98.6	1.13	0.00
	C	0.039	0.008	-0.038	-0.007	0.4	1.2	99.7	98.6	1.13	0.00
T24 Al-deire 2	A	0.031	0.007	-0.031	-0.006	0.3	0.9	99.9	99.0	0.91	0.00
	B	0.031	0.007	-0.031	-0.006	0.3	0.9	99.9	99.0	0.91	0.00
	C	0.031	0.007	-0.031	-0.006	0.3	0.9	99.9	99.0	0.91	0.00
T25 Rasmi wahab	A	0.029	0.010	-0.029	-0.009	0.3	0.9	100.0	98.9	1.06	0.00
	B	0.029	0.010	-0.029	-0.009	0.3	0.9	100.0	98.9	1.06	0.00
	C	0.029	0.010	-0.029	-0.009	0.3	0.9	100.0	98.9	1.06	0.00
T26 Baten alqar'	A	0.036	0.010	-0.036	-0.009	0.4	1.1	99.9	98.7	1.17	0.00
	B	0.036	0.010	-0.036	-0.009	0.4	1.1	99.9	98.7	1.17	0.00
	C	0.036	0.010	-0.036	-0.009	0.4	1.1	99.9	98.7	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	0.020	0.003	-0.020	-0.003	0.2	0.6	99.9	99.3	0.56	0.00
	B	0.020	0.003	-0.020	-0.003	0.2	0.6	99.9	99.3	0.56	0.00
	C	0.020	0.003	-0.020	-0.003	0.2	0.6	99.9	99.3	0.56	0.00
T28 Domet al_wridat	A	0.041	0.007	-0.040	-0.006	0.4	1.2	99.7	98.6	1.11	0.00
	B	0.041	0.007	-0.040	-0.006	0.4	1.2	99.7	98.6	1.11	0.00
	C	0.041	0.007	-0.040	-0.006	0.4	1.2	99.7	98.6	1.11	0.00
T29 Juret al_dama	A	0.046	0.001	-0.046	0.000	0.5	1.5	99.8	98.9	0.95	0.00
	B	0.046	0.001	-0.046	0.000	0.5	1.5	99.8	98.9	0.95	0.00
	C	0.046	0.001	-0.046	0.000	0.5	1.5	99.8	98.9	0.95	0.00
T30 Kafar joul	A	0.031	0.004	-0.030	-0.003	0.3	0.9	99.8	99.0	0.78	0.00
	B	0.031	0.004	-0.030	-0.003	0.3	0.9	99.8	99.0	0.78	0.00
	C	0.031	0.004	-0.030	-0.003	0.3	0.9	99.8	99.0	0.78	0.00
T31 Sam'a	A	0.012	0.002	-0.012	-0.002	0.1	0.5	99.8	99.5	0.32	0.00
	B	0.012	0.002	-0.012	-0.002	0.1	0.5	99.8	99.5	0.32	0.00
	C	0.012	0.002	-0.012	-0.002	0.1	0.5	99.8	99.5	0.32	0.00
T32 Khalet al_ayaseh	A	0.019	0.004	-0.019	-0.003	0.2	0.6	99.7	99.2	0.53	0.00
	B	0.019	0.004	-0.019	-0.003	0.2	0.6	99.7	99.2	0.53	0.00
	C	0.019	0.004	-0.019	-0.003	0.2	0.6	99.7	99.2	0.53	0.00
T33 Al_mizrab	A	0.014	0.002	-0.014	-0.001	0.1	0.5	99.9	99.5	0.35	0.00
	B	0.014	0.002	-0.014	-0.001	0.1	0.5	99.9	99.5	0.35	0.00
	C	0.014	0.002	-0.014	-0.001	0.1	0.5	99.9	99.5	0.35	0.00
T34 Al_shadaqa	A	0.014	0.002	-0.014	-0.001	0.1	0.5	99.9	99.5	0.35	0.00
	B	0.014	0.002	-0.014	-0.001	0.1	0.5	99.9	99.5	0.35	0.00
	C	0.014	0.002	-0.014	-0.001	0.1	0.5	99.9	99.5	0.35	0.00
T35 Al_shuqfan	A	0.029	0.005	-0.028	-0.004	0.4	0.8	99.8	98.3	1.57	0.00
	B	0.029	0.005	-0.028	-0.004	0.4	0.8	99.8	98.3	1.57	0.00
	C	0.029	0.005	-0.028	-0.004	0.4	0.8	99.8	98.3	1.57	0.00
T36 Al_estad	A	0.014	0.002	-0.014	-0.001	0.1	0.5	99.8	99.5	0.35	0.00
	B	0.014	0.002	-0.014	-0.001	0.1	0.5	99.8	99.5	0.35	0.00
	C	0.014	0.002	-0.014	-0.001	0.1	0.5	99.8	99.5	0.35	0.00
T37 Eshreeteh	A	0.035	0.004	-0.035	-0.003	0.4	1.0	99.8	98.9	0.89	0.00
	B	0.035	0.004	-0.035	-0.003	0.4	1.0	99.8	98.9	0.89	0.00
	C	0.035	0.004	-0.035	-0.003	0.4	1.0	99.8	98.9	0.89	0.00
T38 Al_muhtasib	A	0.021	0.004	-0.021	-0.003	0.2	0.6	99.7	99.2	0.58	0.00
	B	0.021	0.004	-0.021	-0.003	0.2	0.6	99.7	99.2	0.58	0.00
	C	0.021	0.004	-0.021	-0.003	0.2	0.6	99.7	99.2	0.58	0.00
T39 Jammoq	A	0.039	0.003	-0.039	-0.002	0.4	1.2	99.8	98.9	0.88	0.00
	B	0.039	0.003	-0.039	-0.002	0.4	1.2	99.8	98.9	0.88	0.00
	C	0.039	0.003	-0.039	-0.002	0.4	1.2	99.8	98.9	0.88	0.00
T40 Al_helal	A	0.005	0.001	-0.004	-0.001	0.1	0.4	99.9	99.8	0.13	0.00
	B	0.005	0.001	-0.004	-0.001	0.1	0.4	99.9	99.8	0.13	0.00
	C	0.005	0.001	-0.004	-0.001	0.1	0.4	99.9	99.8	0.13	0.00
T41 Al_muntazah 2	A	0.020	0.004	-0.020	-0.003	0.2	0.6	99.9	99.3	0.58	0.00
	B	0.020	0.004	-0.020	-0.003	0.2	0.6	99.9	99.3	0.58	0.00
	C	0.020	0.004	-0.020	-0.003	0.2	0.6	99.9	99.3	0.58	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	0.020	0.004	-0.020	-0.003	0.2	0.6	99.9	99.3	0.58	0.00
	B	0.020	0.004	-0.020	-0.003	0.2	0.6	99.9	99.3	0.58	0.00
	C	0.020	0.004	-0.020	-0.003	0.2	0.6	99.9	99.3	0.58	0.00
T43 Al jame'a	A	0.022	0.004	-0.022	-0.004	0.2	0.7	99.7	99.1	0.64	0.00
	B	0.022	0.004	-0.022	-0.004	0.2	0.7	99.7	99.1	0.64	0.00
	C	0.022	0.004	-0.022	-0.004	0.2	0.7	99.7	99.1	0.64	0.00
T44 Alghwla	A	0.012	0.001	-0.012	-0.001	0.1	0.5	99.8	99.5	0.27	0.00
	B	0.012	0.001	-0.012	-0.001	0.1	0.5	99.8	99.5	0.27	0.00
	C	0.012	0.001	-0.012	-0.001	0.1	0.5	99.8	99.5	0.27	0.00
T45 Masafi	A	0.037	0.007	-0.036	-0.006	0.4	1.1	99.8	98.7	1.04	0.00
	B	0.037	0.007	-0.036	-0.006	0.4	1.1	99.8	98.7	1.04	0.00
	C	0.037	0.007	-0.036	-0.006	0.4	1.1	99.8	98.7	1.04	0.00
T46 Al_jebreni	A	0.037	0.017	-0.037	-0.015	0.4	1.2	99.8	98.2	1.52	0.00
	B	0.037	0.017	-0.037	-0.015	0.4	1.2	99.8	98.2	1.52	0.00
	C	0.037	0.017	-0.037	-0.015	0.4	1.2	99.8	98.2	1.52	0.00
T47 Abu_njeem 1	A	0.014	0.002	-0.014	-0.001	0.1	0.4	99.9	99.2	0.71	0.00
	B	0.014	0.002	-0.014	-0.001	0.1	0.4	99.9	99.2	0.71	0.00
	C	0.014	0.002	-0.014	-0.001	0.1	0.4	99.9	99.2	0.71	0.00
T48 Inab al_kabeer	A	0.012	0.002	-0.012	-0.002	0.1	0.4	99.9	99.2	0.65	0.00
	B	0.012	0.002	-0.012	-0.002	0.1	0.4	99.9	99.2	0.65	0.00
	C	0.012	0.002	-0.012	-0.002	0.1	0.4	99.9	99.2	0.65	0.00
T49 Shweki	A	0.012	0.002	-0.012	-0.002	0.1	0.4	99.8	99.2	0.65	0.00
	B	0.012	0.002	-0.012	-0.002	0.1	0.4	99.8	99.2	0.65	0.00
	C	0.012	0.002	-0.012	-0.002	0.1	0.4	99.8	99.2	0.65	0.00
T50 Al-baha	A	0.039	0.007	-0.038	-0.005	0.8	1.3	99.8	97.7	2.14	0.00
	B	0.039	0.007	-0.038	-0.005	0.8	1.3	99.8	97.7	2.14	0.00
	C	0.039	0.007	-0.038	-0.005	0.8	1.3	99.8	97.7	2.14	0.00
T51 Inab al_sagher	A	0.018	0.006	-0.018	-0.006	0.2	0.5	99.8	98.6	1.22	0.00
	B	0.018	0.006	-0.018	-0.006	0.2	0.5	99.8	98.6	1.22	0.00
	C	0.018	0.006	-0.018	-0.006	0.2	0.5	99.8	98.6	1.22	0.00
T52 Bank al_eskan	A	0.014	0.002	-0.014	-0.001	0.1	0.4	99.8	99.1	0.71	0.00
	B	0.014	0.002	-0.014	-0.001	0.1	0.4	99.8	99.1	0.71	0.00
	C	0.014	0.002	-0.014	-0.001	0.1	0.4	99.8	99.1	0.71	0.00
T53 Al_tork	A	0.034	0.025	-0.033	-0.024	0.3	1.4	99.7	99.1	0.62	0.00
	B	0.034	0.025	-0.033	-0.024	0.3	1.4	99.7	99.1	0.62	0.00
	C	0.034	0.025	-0.033	-0.024	0.3	1.4	99.7	99.1	0.62	0.00
T54 Wad algamary 3	A	0.014	0.002	-0.014	-0.001	0.1	0.4	99.9	99.2	0.71	0.00
	B	0.014	0.002	-0.014	-0.001	0.1	0.4	99.9	99.2	0.71	0.00
	C	0.014	0.002	-0.014	-0.001	0.1	0.4	99.9	99.2	0.71	0.00
T55 Mana'	A	0.018	0.003	-0.018	-0.003	0.2	0.6	99.8	99.3	0.49	0.00
	B	0.018	0.003	-0.018	-0.003	0.2	0.6	99.8	99.3	0.49	0.00
	C	0.018	0.003	-0.018	-0.003	0.2	0.6	99.8	99.3	0.49	0.00
T56 Al jebreny step up	A	0.127	0.061	-0.124	-0.057	2.4	4.1	99.6	99.8	0.13	0.00
	B	0.127	0.061	-0.124	-0.057	2.4	4.1	99.6	99.8	0.13	0.00
	C	0.127	0.061	-0.124	-0.057	2.4	4.1	99.6	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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