

Project:
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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	0.055	0.033	-0.055	-0.033	0.0	0.0	99.9	99.9	0.00	0.00
	B	0.052	0.032	-0.052	-0.032	0.0	0.0	99.9	99.9	0.00	0.00
	C	0.054	0.030	-0.054	-0.030	0.0	0.0	99.9	99.9	0.00	0.00
C56	A	0.039	0.020	-0.039	-0.020	0.0	0.0	100.0	100.0	0.00	0.00
	B	0.035	0.023	-0.035	-0.023	0.0	0.0	99.9	99.9	0.00	0.00
	C	0.034	0.017	-0.034	-0.017	0.0	0.0	100.0	100.0	0.00	0.00
C59	A	0.150	0.080	-0.150	-0.080	0.0	0.0	100.0	100.0	0.00	0.00
	B	0.143	0.105	-0.143	-0.105	0.0	0.0	99.9	99.9	0.00	0.00
	C	0.126	0.087	-0.126	-0.087	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	0.168	0.106	-0.168	-0.106	0.0	0.0	100.0	100.0	0.00	0.00
	B	0.158	0.129	-0.158	-0.129	0.0	0.0	100.0	100.0	0.00	0.00
	C	0.144	0.109	-0.144	-0.109	0.0	0.0	100.0	100.0	0.00	0.00
C80	A	0.028	0.013	-0.028	-0.013	0.0	0.0	100.0	100.0	0.00	0.00
	B	0.027	0.021	-0.027	-0.021	0.0	0.0	99.9	99.9	0.00	0.00
	C	0.021	0.015	-0.021	-0.015	0.0	0.0	100.0	100.0	0.00	0.00
C96	A	0.239	0.146	-0.239	-0.146	0.0	0.0	100.0	100.0	0.00	0.00
	B	0.224	0.175	-0.224	-0.175	0.0	0.0	100.0	100.0	0.00	0.00
	C	0.207	0.148	-0.207	-0.148	0.0	0.0	100.0	100.0	0.00	0.00
C97	A	0.112	0.086	-0.112	-0.086	0.0	0.0	100.0	100.0	0.00	0.00
	B	0.110	0.098	-0.110	-0.098	0.0	0.0	99.9	99.9	0.00	0.00
	C	0.101	0.091	-0.101	-0.091	0.0	0.0	100.0	100.0	0.00	0.00
C100	A	0.015	0.008	-0.015	-0.008	0.0	0.0	100.0	100.0	0.00	0.00
	B	0.017	0.008	-0.017	-0.008	0.0	0.0	99.9	99.9	0.00	0.00
	C	0.016	0.009	-0.016	-0.009	0.0	0.0	100.0	100.0	0.00	0.00
C107	A	0.012	0.007	-0.012	-0.007	0.0	0.0	100.0	100.0	0.00	0.00
	B	0.013	0.006	-0.013	-0.006	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
C117	A	0.041	0.026	-0.041	-0.026	0.0	0.0	100.0	100.0	0.00	0.00
	B	0.039	0.035	-0.039	-0.035	0.0	0.0	99.9	99.9	0.00	0.00
	C	0.032	0.029	-0.032	-0.029	0.0	0.0	100.0	100.0	0.00	0.00
C120	A	0.071	0.065	-0.071	-0.065	0.0	0.0	100.0	100.0	0.00	0.00
	B	0.077	0.078	-0.077	-0.078	0.0	0.0	99.9	99.9	0.00	0.00
	C	0.062	0.077	-0.062	-0.077	0.0	0.0	100.0	100.0	0.00	0.00
C128	A	0.183	0.121	-0.183	-0.121	0.0	0.0	100.0	100.0	0.00	0.00
	B	0.173	0.144	-0.173	-0.144	0.0	0.0	99.9	99.9	0.00	0.00
	C	0.157	0.124	-0.157	-0.124	0.0	0.0	100.0	100.0	0.00	0.00
C160	A	0.115	0.088	-0.115	-0.088	0.0	0.0	100.0	100.0	0.00	0.00
	B	0.112	0.100	-0.112	-0.100	0.0	0.0	99.9	99.9	0.00	0.00
	C	0.103	0.091	-0.103	-0.091	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		
C162	A	0.154	0.108	-0.154	-0.108	0.0	0.0	100.0	100.0	0.00	0.00
	B	0.146	0.123	-0.146	-0.123	0.0	0.0	99.9	99.9	0.00	0.00
	C	0.137	0.109	-0.137	-0.109	0.0	0.0	100.0	100.0	0.00	0.00
C163	A	0.000	0.028	0.000	-0.028	0.0	0.0	100.0	100.0	0.00	0.00
	B	0.008	0.034	-0.008	-0.034	0.0	0.0	99.9	99.9	0.00	0.00
	C	-0.001	0.037	0.001	-0.037	0.0	0.0	100.0	100.0	0.00	0.00
C191	A	0.115	0.088	-0.115	-0.088	0.0	0.0	100.0	100.0	0.00	0.00
	B	0.112	0.100	-0.112	-0.100	0.0	0.0	99.9	99.9	0.00	0.00
	C	0.103	0.091	-0.103	-0.091	0.0	0.0	100.0	100.0	0.00	0.00
C193	A	0.001	0.003	-0.001	-0.003	0.0	0.0	100.0	100.0	0.00	0.00
	B	0.001	0.002	-0.001	-0.002	0.0	0.0	99.9	99.9	0.00	0.00
	C	0.002	0.002	-0.002	-0.002	0.0	0.0	100.0	100.0	0.00	0.00
C203	A	-0.069	-0.022	0.069	0.022	0.0	0.0	100.0	100.0	0.00	0.00
	B	-0.062	-0.027	0.062	0.027	0.0	0.0	99.9	99.9	0.00	0.00
	C	-0.061	-0.018	0.061	0.018	0.0	0.0	100.0	100.0	0.00	0.00
C216	A	0.071	0.065	-0.071	-0.065	0.0	0.0	100.0	100.0	0.00	0.00
	B	0.077	0.078	-0.077	-0.078	0.0	0.0	99.9	99.9	0.00	0.00
	C	0.062	0.077	-0.062	-0.077	0.0	0.0	100.0	100.0	0.00	0.00
C246	A	0.193	0.125	-0.193	-0.125	0.0	0.0	100.0	100.0	0.01	0.00
	B	0.184	0.150	-0.184	-0.150	0.0	0.0	100.0	99.9	0.01	0.00
	C	0.168	0.130	-0.168	-0.130	0.0	0.0	100.0	100.0	0.01	0.00
C280	A	0.008	0.004	-0.008	-0.004	0.0	0.0	100.0	100.0	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	0.008	0.002	-0.008	-0.002	0.0	0.0	100.0	100.0	0.00	0.00
C319	A	0.007	0.011	-0.007	-0.011	0.0	0.0	100.0	100.0	0.00	0.00
	B	0.010	0.011	-0.010	-0.011	0.0	0.0	99.9	99.9	0.00	0.00
	C	0.009	0.013	-0.009	-0.013	0.0	0.0	100.0	100.0	0.00	0.00
C322	A	-0.069	-0.022	0.069	0.022	0.0	0.0	100.0	100.0	0.00	0.00
	B	-0.062	-0.027	0.062	0.027	0.0	0.0	99.9	99.9	0.00	0.00
	C	-0.061	-0.018	0.061	0.018	0.0	0.0	100.0	100.0	0.00	0.00
C330	A	0.003	0.001	-0.003	-0.001	0.0	0.0	100.0	100.0	0.00	0.00
	B	0.002	0.002	-0.002	-0.002	0.0	0.0	100.0	100.0	0.00	0.00
	C	0.002	0.001	-0.002	-0.001	0.0	0.0	100.0	100.0	0.00	0.00
C352	A	0.085	0.047	-0.085	-0.047	0.0	0.0	100.0	100.0	0.00	0.00
	B	0.080	0.052	-0.080	-0.052	0.0	0.0	99.9	99.9	0.00	0.00
	C	0.078	0.044	-0.078	-0.044	0.0	0.0	100.0	100.0	0.00	0.00
C361	A	0.038	0.046	-0.038	-0.046	0.0	0.0	100.0	100.0	0.00	0.00
	B	0.041	0.059	-0.041	-0.059	0.0	0.0	99.9	99.9	0.00	0.00
	C	0.029	0.056	-0.029	-0.056	0.0	0.0	100.0	100.0	0.00	0.00
C365	A	-0.008	0.024	0.008	-0.024	0.0	0.0	100.0	100.0	0.00	0.00
	B	0.001	0.029	-0.001	-0.029	0.0	0.0	99.9	99.9	0.00	0.00
	C	-0.008	0.034	0.008	-0.034	0.0	0.0	100.0	100.0	0.00	0.00
C368	A	0.036	0.022	-0.036	-0.022	0.0	0.0	99.9	99.9	0.00	0.00
	B	0.036	0.023	-0.036	-0.023	0.0	0.0	99.9	99.9	0.00	0.00
	C	0.035	0.022	-0.035	-0.022	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	0.042	0.034	-0.042	-0.034	0.0	0.0	100.0	100.0	0.00	0.00
	B	0.041	0.044	-0.041	-0.044	0.0	0.0	99.9	99.9	0.00	0.00
	C	0.033	0.038	-0.033	-0.038	0.0	0.0	100.0	100.0	0.00	0.00
C409	A	0.008	0.004	-0.008	-0.004	0.0	0.0	100.0	100.0	0.00	0.00
	B	0.007	0.005	-0.007	-0.005	0.0	0.0	99.9	99.9	0.00	0.00
	C	0.007	0.004	-0.007	-0.004	0.0	0.0	100.0	100.0	0.00	0.00
C419	A	0.008	0.004	-0.008	-0.004	0.0	0.0	100.0	100.0	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	0.008	0.002	-0.008	-0.002	0.0	0.0	100.0	100.0	0.00	0.00
C422	A	0.013	0.010	-0.013	-0.010	0.0	0.0	100.0	100.0	0.00	0.00
	B	0.012	0.012	-0.012	-0.012	0.0	0.0	99.9	99.9	0.00	0.00
	C	0.011	0.010	-0.011	-0.010	0.0	0.0	100.0	100.0	0.00	0.00
C440	A	0.001	0.002	-0.001	-0.002	0.0	0.0	99.9	99.9	0.00	0.00
	B	0.002	0.001	-0.002	-0.001	0.0	0.0	99.9	99.9	0.00	0.00
	C	0.003	0.002	-0.003	-0.002	0.0	0.0	99.9	99.9	0.00	0.00
C450	A	0.011	0.008	-0.011	-0.008	0.0	0.0	100.0	100.0	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	0.012	0.002	-0.012	-0.002	0.0	0.0	100.0	100.0	0.00	0.00
C.450	A	-0.113	-0.049	0.113	0.049	0.0	0.0	100.0	100.0	0.01	0.00
	B	-0.113	-0.050	0.113	0.050	0.0	0.0	100.0	100.0	0.01	0.00
	C	-0.112	-0.050	0.112	0.050	0.0	0.0	100.0	100.0	0.01	0.00
C461	A	0.006	0.004	-0.006	-0.004	0.0	0.0	100.0	100.0	0.00	0.00
	B	0.009	0.003	-0.009	-0.003	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	100.0	100.0	0.00	0.00
C462	A	0.008	0.006	-0.008	-0.006	0.0	0.0	100.0	100.0	0.00	0.00
	B	0.006	0.004	-0.006	-0.004	0.0	0.0	99.9	99.9	0.00	0.00
	C	0.009	0.003	-0.009	-0.003	0.0	0.0	100.0	100.0	0.00	0.00
C463	A	0.003	0.001	-0.003	-0.001	0.0	0.0	100.0	100.0	0.00	0.00
	B	0.002	0.002	-0.002	-0.002	0.0	0.0	99.9	99.9	0.00	0.00
	C	0.002	0.001	-0.002	-0.001	0.0	0.0	100.0	100.0	0.00	0.00
C473	A	0.226	0.140	-0.226	-0.140	0.0	0.0	100.0	100.0	0.01	0.00
	B	0.212	0.167	-0.212	-0.167	0.0	0.0	100.0	100.0	0.01	0.00
	C	0.196	0.142	-0.196	-0.142	0.0	0.0	100.0	100.0	0.01	0.00
C476	A	0.023	0.011	-0.023	-0.011	0.0	0.0	100.0	100.0	0.00	0.00
	B	0.018	0.019	-0.018	-0.019	0.0	0.0	99.9	99.9	0.00	0.00
	C	0.014	0.010	-0.014	-0.010	0.0	0.0	100.0	100.0	0.00	0.00
C514	A	0.022	0.014	-0.022	-0.014	0.0	0.0	100.0	100.0	0.00	0.00
	B	0.020	0.018	-0.020	-0.018	0.0	0.0	99.9	99.9	0.00	0.00
	C	0.017	0.014	-0.017	-0.014	0.0	0.0	100.0	100.0	0.00	0.00
C517	A	-0.103	-0.042	0.103	0.042	0.0	0.0	100.0	100.0	0.01	0.00
	B	-0.101	-0.046	0.101	0.046	0.0	0.0	99.9	99.9	0.01	0.00
	C	-0.099	-0.042	0.099	0.042	0.0	0.0	100.0	100.0	0.01	0.00
C518	A	-0.090	-0.036	0.090	0.036	0.0	0.0	100.0	100.0	0.01	0.00
	B	-0.088	-0.039	0.088	0.039	0.0	0.0	99.9	99.9	0.01	0.00
	C	-0.087	-0.036	0.087	0.036	0.0	0.0	100.0	100.0	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		
C526	A	0.019	0.012	-0.019	-0.012	0.0	0.0	100.0	100.0	0.00	0.00
	B	0.018	0.016	-0.018	-0.016	0.0	0.0	99.9	99.9	0.00	0.00
	C	0.015	0.013	-0.015	-0.013	0.0	0.0	100.0	100.0	0.00	0.00
C558	A	0.007	0.004	-0.007	-0.004	0.0	0.0	100.0	100.0	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	0.007	0.004	-0.007	-0.004	0.0	0.0	100.0	100.0	0.00	0.00
C577	A	-0.078	-0.030	0.078	0.030	0.0	0.0	100.0	100.0	0.00	0.00
	B	-0.075	-0.032	0.075	0.032	0.0	0.0	99.9	99.9	0.00	0.00
	C	-0.074	-0.029	0.074	0.029	0.0	0.0	100.0	100.0	0.00	0.00
C587	A	0.015	0.007	-0.015	-0.007	0.0	0.0	100.0	100.0	0.00	0.00
	B	0.012	0.008	-0.012	-0.008	0.0	0.0	99.9	99.9	0.00	0.00
	C	0.012	0.005	-0.012	-0.005	0.0	0.0	100.0	100.0	0.00	0.00
C603	A	-0.014	0.021	0.014	-0.021	0.0	0.0	100.0	100.0	0.00	0.00
	B	-0.004	0.025	0.004	-0.025	0.0	0.0	99.9	99.9	0.00	0.00
	C	-0.013	0.031	0.013	-0.031	0.0	0.0	100.0	100.0	0.00	0.00
C622	A	0.009	0.004	-0.009	-0.004	0.0	0.0	100.0	100.0	0.00	0.00
	B	0.006	0.011	-0.006	-0.011	0.0	0.0	99.9	99.9	0.00	0.00
	C	0.001	0.006	-0.001	-0.006	0.0	0.0	100.0	100.0	0.00	0.00
C727	A	0.009	0.006	-0.009	-0.006	0.0	0.0	100.0	100.0	0.00	0.00
	B	0.009	0.008	-0.009	-0.008	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	100.0	100.0	0.00	0.00
C728	A	0.017	0.010	-0.017	-0.010	0.0	0.0	100.0	100.0	0.00	0.00
	B	0.013	0.015	-0.013	-0.015	0.0	0.0	99.9	99.9	0.00	0.00
	C	0.010	0.009	-0.010	-0.009	0.0	0.0	100.0	100.0	0.00	0.00
C806	A	0.079	0.043	-0.079	-0.043	0.0	0.0	100.0	99.9	0.01	0.00
	B	0.073	0.048	-0.073	-0.048	0.0	0.0	99.9	99.9	0.01	0.00
	C	0.071	0.041	-0.071	-0.041	0.0	0.0	100.0	100.0	0.01	0.00
C811	A	0.019	0.011	-0.019	-0.011	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	0.019	0.008	-0.019	-0.008	0.0	0.0	99.9	99.9	0.00	0.00
C815	A	-0.107	-0.045	0.107	0.045	0.0	0.0	100.0	100.0	0.01	0.00
	B	-0.108	-0.047	0.108	0.047	0.0	0.0	99.9	100.0	0.01	0.00
	C	-0.106	-0.047	0.106	0.047	0.0	0.0	100.0	100.0	0.01	0.00
C880	A	-0.113	-0.049	0.113	0.049	0.0	0.0	100.0	100.0	0.01	0.00
	B	-0.113	-0.050	0.113	0.050	0.0	0.0	100.0	100.0	0.01	0.00
	C	-0.112	-0.050	0.112	0.050	0.0	0.0	100.0	100.0	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	100.0	100.0	0.00	0.00
Co57	A	0.007	0.011	-0.007	-0.011	0.0	0.0	100.0	100.0	0.00	0.00
	B	0.010	0.011	-0.010	-0.011	0.0	0.0	99.9	99.9	0.00	0.00
	C	0.009	0.013	-0.009	-0.013	0.0	0.0	100.0	100.0	0.00	0.00
Co58	A	0.027	0.008	-0.027	-0.008	0.0	0.0	100.0	100.0	0.00	0.00
	B	0.021	0.021	-0.021	-0.021	0.0	0.0	99.9	99.9	0.00	0.00
	C	0.013	0.009	-0.013	-0.009	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	0.128	0.067	-0.128	-0.067	0.0	0.0	100.0	100.0	0.00	0.00
	B	0.124	0.087	-0.124	-0.087	0.0	0.0	99.9	99.9	0.00	0.00
	C	0.109	0.073	-0.109	-0.073	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	0.005	0.002	-0.005	-0.002	0.0	0.0	99.9	99.9	0.00	0.00
	B	0.004	0.004	-0.004	-0.004	0.0	0.0	99.9	99.9	0.00	0.00
	C	0.003	0.002	-0.003	-0.002	0.0	0.0	100.0	100.0	0.00	0.00
Co294	A	0.025	0.007	-0.025	-0.007	0.0	0.0	100.0	100.0	0.00	0.00
	B	0.018	0.018	-0.018	-0.018	0.0	0.0	99.9	99.9	0.00	0.00
	C	0.012	0.007	-0.012	-0.007	0.0	0.0	100.0	100.0	0.00	0.00
Co528	A	0.002	0.001	-0.002	-0.001	0.0	0.0	99.9	99.9	0.00	0.00
	B	0.001	0.002	-0.001	-0.002	0.0	0.0	99.9	99.9	0.00	0.00
	C	0.001	0.001	-0.001	-0.001	0.0	0.0	100.0	100.0	0.00	0.00
Co600	A	0.128	0.067	-0.128	-0.067	0.0	0.0	100.0	100.0	0.01	0.00
	B	0.124	0.087	-0.124	-0.087	0.0	0.0	99.9	99.9	0.01	0.00
	C	0.109	0.073	-0.109	-0.073	0.0	0.0	100.0	100.0	0.01	0.00
Co645	A	0.005	0.002	-0.005	-0.002	0.0	0.0	99.9	99.9	0.00	0.00
	B	0.004	0.004	-0.004	-0.004	0.0	0.0	99.9	99.9	0.00	0.00
	C	0.003	0.002	-0.003	-0.002	0.0	0.0	100.0	100.0	0.00	0.00
Co999	A	0.027	0.007	-0.027	-0.007	0.0	0.0	100.0	100.0	0.00	0.00
	B	0.021	0.020	-0.021	-0.020	0.0	0.0	99.9	99.9	0.00	0.00
	C	0.013	0.008	-0.013	-0.008	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	0.001	0.001	-0.001	-0.001	0.0	0.0	100.0	100.0	0.00	0.00
	B	0.002	0.001	-0.002	-0.001	0.0	0.0	99.9	99.9	0.00	0.00
	C	0.002	0.002	-0.002	-0.002	0.0	0.0	100.0	100.0	0.00	0.00
D256	A	0.001	0.001	-0.001	-0.001	0.0	0.0	100.0	100.0	0.00	0.00
	B	0.002	0.001	-0.002	-0.001	0.0	0.0	99.9	99.9	0.00	0.00
	C	0.002	0.002	-0.002	-0.002	0.0	0.0	100.0	100.0	0.00	0.00
D276	A	0.001	0.001	-0.001	-0.001	0.0	0.0	100.0	100.0	0.00	0.00
	B	0.002	0.001	-0.002	-0.001	0.0	0.0	99.9	99.9	0.00	0.00
	C	0.002	0.002	-0.002	-0.002	0.0	0.0	100.0	100.0	0.00	0.00
D634	A	0.007	0.004	-0.007	-0.004	0.0	0.0	100.0	100.0	0.00	0.00
	B	0.007	0.005	-0.007	-0.005	0.0	0.0	99.9	99.9	0.00	0.00
	C	0.007	0.005	-0.007	-0.005	0.0	0.0	100.0	100.0	0.00	0.00
D655	A	0.025	0.007	-0.025	-0.007	0.0	0.0	100.0	100.0	0.00	0.00
	B	0.018	0.018	-0.018	-0.018	0.0	0.0	99.9	99.9	0.00	0.00
	C	0.012	0.007	-0.012	-0.007	0.0	0.0	100.0	100.0	0.00	0.00
D711	A	0.025	0.007	-0.025	-0.007	0.0	0.0	100.0	100.0	0.00	0.00
	B	0.018	0.018	-0.018	-0.018	0.0	0.0	99.9	99.9	0.00	0.00
	C	0.012	0.007	-0.012	-0.007	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	0.001	0.001	-0.001	-0.001	0.0	0.0	100.0	100.0	0.00	0.00
	B	0.002	0.001	-0.002	-0.001	0.0	0.0	99.9	99.9	0.00	0.00
	C	0.002	0.002	-0.002	-0.002	0.0	0.0	100.0	100.0	0.00	0.00
R10	A	0.002	0.001	-0.002	-0.001	0.0	0.0	99.9	99.9	0.00	0.00
	B	0.001	0.002	-0.001	-0.002	0.0	0.0	99.9	99.9	0.00	0.00
	C	0.001	0.001	-0.001	-0.001	0.0	0.0	100.0	100.0	0.00	0.00
R36	A	0.407	0.253	-0.407	-0.253	0.0	0.0	100.0	100.0	0.00	0.00
	B	0.383	0.303	-0.383	-0.303	0.0	0.0	100.0	100.0	0.00	0.00
	C	0.351	0.257	-0.351	-0.257	0.0	0.0	100.0	100.0	0.00	0.00
R45	A	0.055	0.033	-0.055	-0.033	0.0	0.0	99.9	99.9	0.00	0.00
	B	0.052	0.032	-0.052	-0.032	0.0	0.0	99.9	99.9	0.00	0.00
	C	0.054	0.030	-0.054	-0.030	0.0	0.0	99.9	99.9	0.00	0.00
R106	A	0.168	0.106	-0.168	-0.106	0.0	0.0	100.0	100.0	0.00	0.00
	B	0.158	0.129	-0.158	-0.129	0.0	0.0	100.0	100.0	0.00	0.00
	C	0.144	0.109	-0.144	-0.109	0.0	0.0	100.0	100.0	0.00	0.00
R150	A	0.055	0.033	-0.055	-0.033	0.0	0.0	99.9	99.9	0.00	0.00
	B	0.052	0.032	-0.052	-0.032	0.0	0.0	99.9	99.9	0.00	0.00
	C	0.054	0.030	-0.054	-0.030	0.0	0.0	100.0	100.0	0.00	0.00
R164	A	0.090	0.052	-0.090	-0.052	0.0	0.0	100.0	100.0	0.00	0.00
	B	0.090	0.058	-0.090	-0.058	0.0	0.0	99.9	99.9	0.00	0.00
	C	0.085	0.055	-0.085	-0.055	0.0	0.0	100.0	100.0	0.00	0.00
R190	A	0.167	0.098	-0.167	-0.098	0.0	0.0	100.0	100.0	0.01	0.00
	B	0.156	0.119	-0.156	-0.119	0.0	0.0	100.0	100.0	0.01	0.00
	C	0.143	0.099	-0.143	-0.099	0.0	0.0	100.0	100.0	0.01	0.00
R380	A	0.055	0.033	-0.055	-0.033	0.0	0.0	99.9	99.9	0.00	0.00
	B	0.052	0.032	-0.052	-0.032	0.0	0.0	99.9	99.9	0.00	0.00
	C	0.054	0.030	-0.054	-0.030	0.0	0.0	100.0	99.9	0.00	0.00
R410	A	0.001	0.001	-0.001	-0.001	0.0	0.0	100.0	100.0	0.00	0.00
	B	0.002	0.001	-0.002	-0.001	0.0	0.0	99.9	99.9	0.00	0.00
	C	0.002	0.002	-0.002	-0.002	0.0	0.0	100.0	100.0	0.00	0.00
R436	A	0.167	0.098	-0.167	-0.098	0.0	0.0	100.0	100.0	0.01	0.00
	B	0.156	0.119	-0.156	-0.119	0.0	0.0	100.0	99.9	0.01	0.00
	C	0.143	0.099	-0.143	-0.099	0.0	0.0	100.0	100.0	0.01	0.00
R455	A	0.001	0.003	-0.001	-0.003	0.0	0.0	100.0	100.0	0.00	0.00
	B	0.001	0.002	-0.001	-0.002	0.0	0.0	99.9	99.9	0.00	0.00
	C	0.002	0.002	-0.002	-0.002	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	100.0	100.0	0.00	0.00
	B	0.000	0.000	0.000	0.000	0.0	0.0	100.0	100.0	0.00	0.00
	C	0.000	0.000	0.000	0.000	0.0	0.0	100.0	100.0	0.00	0.00
R734	A	0.090	0.052	-0.090	-0.052	0.0	0.0	100.0	100.0	0.01	0.00
	B	0.090	0.058	-0.090	-0.058	0.0	0.0	99.9	99.9	0.01	0.00
	C	0.085	0.055	-0.085	-0.055	0.0	0.0	100.0	100.0	0.01	0.00
R803	A	0.013	0.006	-0.013	-0.006	0.0	0.0	100.0	100.0	0.00	0.00
	B	0.012	0.007	-0.012	-0.007	0.0	0.0	99.9	99.9	0.00	0.00
	C	0.011	0.007	-0.011	-0.007	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		
R844	A	0.003	0.001	-0.003	-0.001	0.0	0.0	100.0	100.0	0.00	0.00
	B	0.003	0.002	-0.003	-0.002	0.0	0.0	99.9	99.9	0.00	0.00
	C	0.001	0.002	-0.001	-0.002	0.0	0.0	100.0	100.0	0.00	0.00
R950	A	0.009	0.006	-0.009	-0.006	0.0	0.0	100.0	100.0	0.00	0.00
	B	0.009	0.008	-0.009	-0.008	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	100.0	100.0	0.00	0.00
R1435	A	0.014	0.007	-0.014	-0.007	0.0	0.0	99.9	99.9	0.00	0.00
	B	0.009	0.010	-0.009	-0.010	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
R1499	A	0.001	0.001	-0.001	-0.001	0.0	0.0	100.0	100.0	0.00	0.00
	B	0.002	0.001	-0.002	-0.001	0.0	0.0	99.9	99.9	0.00	0.00
	C	0.002	0.002	-0.002	-0.002	0.0	0.0	100.0	100.0	0.00	0.00
T1 Al-masjid Al_kaber	A	0.030	0.014	-0.031	-0.016	-0.7	-1.7	100.0	99.5	0.47	0.00
	B	0.026	0.016	-0.024	-0.010	1.7	6.2	99.9	99.7	0.27	0.00
	C	0.026	0.011	-0.027	-0.012	-0.2	-0.8	100.0	99.6	0.34	0.00
T2 Mothalath Al_borg	A	0.030	0.014	-0.031	-0.016	-0.7	-1.7	100.0	99.5	0.46	0.00
	B	0.026	0.016	-0.024	-0.010	1.7	6.2	100.0	99.7	0.28	0.00
	C	0.026	0.011	-0.027	-0.012	-0.2	-0.8	100.0	99.7	0.34	0.00
T3 Maskaneh	A	0.030	0.014	-0.031	-0.016	-0.7	-1.7	100.0	99.5	0.47	0.00
	B	0.026	0.016	-0.024	-0.010	1.7	6.2	99.9	99.7	0.27	0.00
	C	0.026	0.011	-0.027	-0.012	-0.2	-0.8	100.0	99.6	0.34	0.00
T4 Bear mtawi'	A	0.017	0.018	-0.012	-0.015	5.4	2.1	100.0	99.6	0.40	0.00
	B	0.012	0.015	-0.014	-0.013	-1.4	1.6	99.9	99.6	0.32	0.00
	C	0.017	0.012	-0.020	-0.012	-3.1	-0.3	100.0	99.7	0.33	0.00
T5 Wad algamary 1	A	0.012	0.007	-0.014	-0.010	-2.0	-2.9	100.0	99.5	0.46	0.00
	B	0.012	0.010	-0.011	-0.007	1.0	2.8	99.9	99.6	0.32	0.00
	C	0.009	0.008	-0.007	-0.006	1.6	2.3	100.0	99.7	0.26	0.00
T6 Wad algamary 2	A	0.001	0.003	-0.001	-0.002	0.6	0.6	100.0	99.8	0.16	0.00
	B	0.001	0.002	-0.001	-0.001	-0.2	1.0	99.9	99.9	0.06	0.00
	C	0.002	0.002	-0.002	-0.002	-0.1	-0.4	100.0	99.8	0.14	0.00
T7 Al_deir 1	A	0.020	0.009	-0.020	-0.009	-0.4	-0.1	100.0	99.5	0.50	0.00
	B	0.020	0.010	-0.020	-0.009	0.1	1.2	99.9	99.5	0.44	0.00
	C	0.020	0.010	-0.019	-0.009	0.9	1.3	100.0	99.6	0.43	0.00
T8 Karam al_ashqar	A	0.010	0.004	-0.011	-0.004	-1.2	-0.1	99.9	99.7	0.25	0.00
	B	0.011	0.006	-0.010	-0.006	1.6	-0.1	99.9	99.6	0.28	0.00
	C	0.009	0.006	-0.008	-0.004	0.2	2.3	100.0	99.8	0.20	0.00
T9 Abu al_humas	A	0.020	0.009	-0.020	-0.009	-0.4	-0.1	100.0	99.5	0.50	0.00
	B	0.020	0.010	-0.020	-0.009	0.1	1.2	99.9	99.5	0.44	0.00
	C	0.020	0.010	-0.019	-0.009	0.9	1.3	100.0	99.5	0.43	0.00
T10 Meqtaa' duma	A	0.013	0.008	-0.013	-0.006	0.0	2.6	100.0	99.6	0.32	0.00
	B	0.016	0.008	-0.016	-0.011	0.0	-2.8	99.9	99.5	0.47	0.00
	C	0.015	0.011	-0.014	-0.009	0.6	2.4	100.0	99.6	0.39	0.00
T11 Wad ali	A	0.017	0.009	-0.016	-0.008	1.7	0.3	99.9	99.5	0.43	0.00
	B	0.015	0.008	-0.015	-0.006	-0.1	2.2	99.9	99.6	0.30	0.00
	C	0.017	0.006	-0.018	-0.006	-0.9	-0.3	99.9	99.6	0.35	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	0.012	0.007	-0.012	-0.005	0.5	1.9	100.0	99.6	0.33	0.00
	B	0.013	0.006	-0.013	-0.007	0.2	-0.6	99.9	99.6	0.36	0.00
	C	0.013	0.007	-0.013	-0.006	-0.1	0.9	100.0	99.6	0.36	0.00
T13 Qata't al_jamal	A	0.009	0.004	-0.010	-0.006	-1.0	-2.3	100.0	99.6	0.32	0.00
	B	0.006	0.011	-0.001	-0.010	5.6	1.6	99.9	99.6	0.31	0.00
	C	0.001	0.006	-0.005	-0.003	-4.1	2.8	100.0	99.8	0.13	0.00
T14 Al_markaz	A	0.015	0.008	-0.015	-0.009	0.3	-1.0	100.0	99.5	0.44	0.00
	B	0.017	0.008	-0.019	-0.008	-2.3	0.1	99.9	99.5	0.40	0.00
	C	0.016	0.009	-0.013	-0.006	2.6	3.2	100.0	99.7	0.31	0.00
T15 Abu hashim	A	0.036	0.022	-0.036	-0.022	0.2	0.5	99.9	98.9	1.04	0.00
	B	0.036	0.023	-0.035	-0.022	1.0	1.5	99.9	98.9	0.99	0.00
	C	0.035	0.022	-0.035	-0.021	-0.3	1.7	99.9	99.0	0.96	0.00
T16 Sa'ada	A	0.011	0.005	-0.012	-0.005	-1.2	-0.1	100.0	99.7	0.28	0.00
	B	0.011	0.005	-0.010	-0.004	0.7	1.3	99.9	99.7	0.21	0.00
	C	0.010	0.005	-0.009	-0.005	1.0	0.8	100.0	99.7	0.22	0.00
T17 Al_baladiya	A	0.011	0.005	-0.012	-0.005	-1.2	-0.1	100.0	99.7	0.28	0.00
	B	0.011	0.005	-0.010	-0.004	0.7	1.3	99.9	99.7	0.21	0.00
	C	0.010	0.005	-0.009	-0.005	1.0	0.8	100.0	99.8	0.22	0.00
T18 Al_sheehk	A	0.018	0.010	-0.020	-0.012	-1.5	-1.2	100.0	99.4	0.57	0.00
	B	0.019	0.012	-0.018	-0.010	0.5	1.9	99.9	99.5	0.47	0.00
	C	0.017	0.012	-0.015	-0.010	1.6	1.6	100.0	99.5	0.45	0.00
T19 Kerbit alama	A	0.004	0.002	-0.004	-0.001	0.6	0.9	100.0	99.8	0.18	0.00
	B	0.008	0.000	-0.011	-0.003	-3.0	-2.2	99.9	99.6	0.34	0.00
	C	0.008	0.004	-0.005	-0.002	2.8	2.6	100.0	99.8	0.18	0.00
T20 Aqabit al_tarsha	A	0.013	0.006	-0.013	-0.007	-0.1	-0.8	100.0	99.4	0.62	0.00
	B	0.012	0.007	-0.012	-0.007	0.3	0.7	100.0	99.4	0.56	0.00
	C	0.011	0.007	-0.011	-0.005	0.2	1.5	100.0	99.5	0.47	0.00
T21 Al_mustashfah	A	0.009	0.004	-0.010	-0.006	-1.2	-2.4	100.0	99.4	0.54	0.00
	B	0.006	0.011	-0.001	-0.010	5.5	1.3	99.9	99.4	0.49	0.00
	C	0.001	0.006	-0.005	-0.003	-4.0	2.4	100.0	99.7	0.26	0.00
T22 Da'na	A	0.001	0.008	-0.002	-0.008	-0.8	-0.1	100.0	99.5	0.49	0.00
	B	0.003	0.009	-0.002	-0.009	0.1	0.0	99.9	99.4	0.49	0.00
	C	0.001	0.010	0.000	-0.008	1.0	1.4	100.0	99.6	0.42	0.00
T23 Kurza	A	0.013	0.006	-0.013	-0.007	-0.1	-0.8	100.0	99.4	0.62	0.00
	B	0.012	0.007	-0.012	-0.007	0.3	0.7	99.9	99.4	0.56	0.00
	C	0.011	0.007	-0.011	-0.005	0.2	1.5	100.0	99.5	0.47	0.00
T24 Al-deire 2	A	0.009	0.004	-0.010	-0.006	-1.2	-2.4	100.0	99.4	0.54	0.00
	B	0.006	0.011	-0.001	-0.010	5.5	1.3	99.9	99.5	0.49	0.00
	C	0.001	0.006	-0.005	-0.003	-4.0	2.4	100.0	99.7	0.26	0.00
T25 Rasmi wahab	A	0.001	0.008	-0.002	-0.008	-0.8	-0.1	100.0	99.5	0.49	0.00
	B	0.003	0.009	-0.002	-0.009	0.1	0.0	100.0	99.5	0.49	0.00
	C	0.001	0.010	0.000	-0.008	1.0	1.4	100.0	99.6	0.42	0.00
T26 Baten alqar'	A	0.008	0.006	-0.009	-0.005	-0.3	1.0	100.0	99.5	0.46	0.00
	B	0.009	0.006	-0.010	-0.006	-0.2	-0.2	99.9	99.5	0.48	0.00
	C	0.009	0.007	-0.008	-0.006	0.8	0.5	100.0	99.5	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		
T27 Al_muntazah	A	0.017	0.002	-0.023	-0.012	-5.7	-9.5	100.0	98.9	1.08	0.00
	B	0.011	0.013	-0.004	-0.002	6.8	10.7	99.9	99.7	0.20	0.00
	C	0.005	0.002	-0.005	-0.002	-0.6	0.3	100.0	99.8	0.21	0.00
T28 Domet al_wridat	A	0.015	0.007	-0.014	-0.007	1.0	-0.1	100.0	99.3	0.65	0.00
	B	0.012	0.008	-0.010	-0.006	1.5	2.1	99.9	99.4	0.48	0.00
	C	0.012	0.005	-0.014	-0.005	-2.1	-0.4	100.0	99.4	0.54	0.00
T29 Juret al_dama	A	0.011	0.008	-0.006	-0.005	4.7	3.1	100.0	99.6	0.39	0.00
	B	0.007	0.004	-0.008	-0.003	-1.2	0.6	99.9	99.6	0.32	0.00
	C	0.012	0.002	-0.016	-0.005	-3.1	-2.2	100.0	99.4	0.53	0.00
T30 Kafar joul	A	0.009	0.004	-0.008	-0.006	1.5	-1.4	99.9	99.5	0.47	0.00
	B	0.005	0.006	-0.004	-0.003	1.1	2.5	99.9	99.7	0.25	0.00
	C	0.006	0.002	-0.008	-0.002	-2.2	0.2	100.0	99.7	0.24	0.00
T31 Sam'a	A	0.001	0.002	-0.001	-0.001	0.2	1.1	99.9	99.8	0.10	0.00
	B	0.002	0.001	-0.002	-0.001	-0.5	0.1	99.9	99.8	0.08	0.00
	C	0.003	0.002	-0.002	-0.002	0.7	0.0	99.9	99.8	0.13	0.00
T32 Khalet al_ayaseh	A	0.006	0.004	-0.007	-0.003	-0.7	0.5	100.0	99.6	0.33	0.00
	B	0.009	0.003	-0.010	-0.005	-1.3	-1.4	99.9	99.5	0.43	0.00
	C	0.008	0.006	-0.005	-0.004	2.4	2.2	100.0	99.7	0.31	0.00
T33 Al_mizrab	A	0.003	0.001	-0.003	-0.001	-0.3	-0.3	100.0	99.8	0.15	0.00
	B	0.003	0.002	-0.002	-0.002	0.9	0.4	99.9	99.8	0.12	0.00
	C	0.001	0.002	-0.002	0.000	-0.3	1.1	100.0	99.9	0.06	0.00
T34 Al_shadaqa	A	0.003	0.001	-0.003	-0.001	-0.3	-0.3	100.0	99.8	0.15	0.00
	B	0.003	0.002	-0.002	-0.002	0.9	0.4	99.9	99.8	0.12	0.00
	C	0.001	0.002	-0.002	0.000	-0.3	1.1	100.0	99.9	0.06	0.00
T35 Al_shuqfan	A	0.007	0.004	-0.007	-0.003	0.1	0.2	100.0	99.4	0.58	0.00
	B	0.007	0.004	-0.007	-0.003	0.2	0.4	99.9	99.4	0.52	0.00
	C	0.007	0.004	-0.007	-0.003	0.0	0.3	100.0	99.4	0.52	0.00
T36 Al_estad	A	0.003	0.001	-0.003	-0.001	-0.3	-0.3	99.9	99.8	0.15	0.00
	B	0.003	0.002	-0.002	-0.002	0.9	0.4	99.9	99.8	0.12	0.00
	C	0.001	0.002	-0.002	0.000	-0.3	1.1	100.0	99.9	0.06	0.00
T37 EshreeteH	A	0.008	0.004	-0.007	-0.003	1.0	1.6	100.0	99.7	0.31	0.00
	B	0.006	0.003	-0.006	-0.001	0.3	1.4	99.9	99.7	0.18	0.00
	C	0.008	0.002	-0.009	-0.004	-1.0	-1.7	100.0	99.6	0.37	0.00
T38 Al_muhtasib	A	0.006	0.004	-0.005	-0.003	0.9	1.3	100.0	99.7	0.29	0.00
	B	0.005	0.004	-0.004	-0.003	0.4	0.6	100.0	99.7	0.23	0.00
	C	0.006	0.003	-0.007	-0.004	-1.0	-0.6	100.0	99.7	0.32	0.00
T39 Jammoq	A	0.008	0.004	-0.008	-0.005	0.1	-1.1	100.0	99.5	0.44	0.00
	B	0.007	0.005	-0.008	-0.003	-0.3	1.5	99.9	99.6	0.30	0.00
	C	0.007	0.004	-0.007	-0.003	0.5	1.0	100.0	99.7	0.26	0.00
T40 Al_helal	A	0.000	0.000	0.000	0.000	0.1	0.4	100.0	99.9	0.05	0.00
	B	0.000	0.001	0.000	0.000	0.1	0.4	99.9	99.9	0.00	0.00
	C	0.000	0.001	0.000	0.000	0.1	0.4	100.0	100.0	0.01	0.00
T41 Al_muntazah 2	A	0.006	0.003	-0.006	-0.003	0.1	-0.3	100.0	99.6	0.32	0.00
	B	0.005	0.004	-0.004	-0.002	0.6	1.4	99.9	99.7	0.20	0.00
	C	0.005	0.003	-0.005	-0.002	-0.4	0.1	100.0	99.8	0.22	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	0.006	0.003	-0.006	-0.003	-0.2	-0.2	100.0	99.7	0.29	0.00
	B	0.006	0.004	-0.005	-0.003	0.9	0.4	99.9	99.7	0.26	0.00
	C	0.004	0.003	-0.005	-0.002	-0.3	1.1	100.0	99.8	0.20	0.00
T43 Al jame'a	A	0.003	0.004	-0.002	-0.001	0.8	2.8	100.0	99.8	0.14	0.00
	B	0.004	0.002	-0.005	-0.003	-0.7	-1.4	99.9	99.7	0.24	0.00
	C	0.005	0.004	-0.005	-0.004	0.3	-0.1	100.0	99.7	0.30	0.00
T44 Alghwla	A	0.002	0.001	-0.002	-0.001	-0.1	0.3	99.9	99.8	0.14	0.00
	B	0.001	0.002	0.000	0.000	0.7	1.4	99.9	99.9	0.01	0.00
	C	0.001	0.001	-0.002	-0.001	-0.3	-0.4	100.0	99.9	0.09	0.00
T45 Masafi	A	0.006	0.003	-0.007	-0.004	-0.6	-0.8	100.0	99.6	0.37	0.00
	B	0.005	0.004	-0.004	-0.002	1.0	2.3	99.9	99.8	0.17	0.00
	C	0.005	0.003	-0.005	-0.003	-0.1	-0.2	100.0	99.7	0.24	0.00
T46 Al_jebreni	A	0.011	0.008	-0.010	-0.006	1.2	1.5	100.0	99.5	0.55	0.00
	B	0.011	0.007	-0.011	-0.008	0.0	-0.4	100.0	99.4	0.59	0.00
	C	0.012	0.007	-0.013	-0.007	-0.8	0.4	100.0	99.4	0.59	0.00
T47 Abu_njeem 1	A	0.003	0.001	-0.003	-0.002	-0.3	-0.4	100.0	99.7	0.30	0.00
	B	0.002	0.002	-0.001	-0.001	0.9	1.5	99.9	99.9	0.07	0.00
	C	0.002	0.001	-0.002	-0.001	-0.4	-0.3	100.0	99.8	0.17	0.00
T48 Inab al_kabeer	A	0.001	0.001	-0.001	-0.001	-0.1	0.3	100.0	99.8	0.15	0.00
	B	0.002	0.001	-0.003	-0.002	-0.5	-0.7	99.9	99.7	0.24	0.00
	C	0.002	0.002	-0.001	-0.001	0.8	1.1	100.0	99.9	0.12	0.00
T49 Shweki	A	0.001	0.001	-0.001	-0.001	-0.1	0.3	100.0	99.8	0.15	0.00
	B	0.002	0.001	-0.003	-0.002	-0.5	-0.7	99.9	99.7	0.24	0.00
	C	0.002	0.002	-0.001	-0.001	0.8	1.1	100.0	99.9	0.12	0.00
T50 Al-baha	A	0.008	0.005	-0.007	-0.007	1.4	-1.9	100.0	99.2	0.80	0.00
	B	0.006	0.007	-0.006	-0.006	0.1	1.0	99.9	99.3	0.67	0.00
	C	0.006	0.004	-0.007	-0.002	-1.2	1.8	100.0	99.5	0.46	0.00
T51 Inab al_sagher	A	0.004	0.005	-0.011	-0.004	-6.8	0.6	100.0	99.1	0.85	0.00
	B	0.011	0.006	-0.009	-0.005	1.3	0.4	99.9	99.1	0.79	0.00
	C	0.007	0.011	-0.001	-0.011	5.9	0.1	100.0	99.2	0.81	0.00
T52 Bank al_eskan	A	0.003	0.001	-0.003	-0.002	-0.3	-0.4	100.0	99.7	0.30	0.00
	B	0.002	0.002	-0.001	-0.001	0.9	1.5	99.9	99.9	0.07	0.00
	C	0.002	0.001	-0.002	-0.001	-0.4	-0.3	100.0	99.8	0.17	0.00
T53 Al_tork	A	0.007	0.011	-0.008	-0.009	-0.9	1.3	100.0	99.7	0.26	0.00
	B	0.010	0.011	-0.010	-0.011	-0.2	-0.2	99.9	99.7	0.25	0.00
	C	0.009	0.013	-0.007	-0.011	1.9	2.0	100.0	99.7	0.25	0.00
T54 Wad algamary 3	A	0.003	0.001	-0.003	-0.002	-0.3	-0.4	100.0	99.7	0.30	0.00
	B	0.002	0.002	-0.001	-0.001	0.9	1.5	100.0	99.9	0.08	0.00
	C	0.002	0.001	-0.002	-0.001	-0.4	-0.3	100.0	99.8	0.17	0.00
T55 Mana'	A	0.001	0.001	0.000	-0.001	0.1	0.4	100.0	99.9	0.09	0.00
	B	0.000	0.001	0.000	-0.001	0.1	0.6	99.9	99.9	0.03	0.00
	C	0.001	0.001	0.000	-0.001	0.1	0.2	100.0	99.9	0.05	0.00
T56 Al jebreny step up	A	0.127	0.061	-0.124	-0.057	2.3	4.3	99.8	100.0	0.17	0.00
	B	0.127	0.061	-0.124	-0.057	2.2	4.1	99.8	100.0	0.13	0.00
	C	0.127	0.061	-0.124	-0.057	2.5	4.0	99.9	100.0	0.14	0.00

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

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