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Branch Losses Summary Report

CKT / Branch ID	From-To Bus Flow		To-From Bus Flow		Losses		% Bus Voltage		Vd % Drop in Vmag
	kW	kvar	kW	kvar	kW	kvar	From	To	
R36	1109.7	736.9	-1109.7	-736.9	0.0	0.0	100.0	100.0	0.00
C61	463.2	322.8	-463.2	-322.8	0.0	0.0	100.0	100.0	0.00
C96	646.5	414.1	-646.5	-414.1	0.0	0.0	100.0	100.0	0.00
R106	463.2	322.8	-463.2	-322.8	0.0	0.0	100.0	100.0	0.00
R190	458.3	296.8	-458.3	-296.8	0.0	0.0	100.0	100.0	0.01
T25 Rasmi wahab	4.8	26.0	-4.8	-25.9	0.0	0.1	100.0	99.5	0.46
R436	458.3	296.8	-458.2	-296.7	0.1	0.0	100.0	100.0	0.01
C59	412.7	255.3	-412.7	-255.3	0.0	0.0	100.0	100.0	0.00
T4 Bear mtawi'	45.5	41.5	-45.5	-41.2	0.0	0.3	100.0	99.6	0.34
C514	57.5	40.5	-57.5	-40.5	0.0	0.0	100.0	100.0	0.00
Co600	355.2	214.8	-355.2	-214.7	0.0	0.0	100.0	100.0	0.01
C463	6.4	3.3	-6.4	-3.3	0.0	0.0	100.0	100.0	0.00
C526	51.2	37.2	-51.2	-37.2	0.0	0.0	100.0	100.0	0.00
T47 Abu_njeem 1	6.4	3.3	-6.4	-3.3	0.0	0.0	100.0	99.8	0.17
C422	35.8	28.9	-35.8	-28.9	0.0	0.0	100.0	100.0	0.00
T42 Abu njeem 2	15.4	8.3	-15.4	-8.3	0.0	0.1	100.0	99.7	0.24
C193	3.4	5.4	-3.4	-5.4	0.0	0.0	100.0	100.0	0.00
T5 Wad algamary 1	32.4	23.4	-32.3	-23.2	0.0	0.2	100.0	99.6	0.34
R455	3.4	5.4	-3.4	-5.4	0.0	0.0	100.0	100.0	0.00
T6 Wad algamary 2	3.4	5.4	-3.4	-5.4	0.0	0.0	100.0	99.9	0.11
C473	610.4	395.3	-610.3	-395.3	0.1	0.1	100.0	100.0	0.01
T20 Aqabit al_tarsha	36.1	18.8	-36.0	-18.5	0.1	0.3	100.0	99.5	0.54
C246	522.4	354.0	-522.4	-354.0	0.0	0.0	100.0	100.0	0.01
C330	6.4	3.3	-6.4	-3.3	0.0	0.0	100.0	100.0	0.00
T2 Mothalath Al_borg	81.5	37.9	-81.4	-37.4	0.1	0.6	100.0	99.6	0.35
T54 Wad algamary 3	6.4	3.3	-6.4	-3.3	0.0	0.0	100.0	99.8	0.17
C128	491.0	340.4	-491.0	-340.4	0.0	0.0	100.0	100.0	0.00
T17 Al_baladiya	31.4	13.6	-31.4	-13.5	0.0	0.1	100.0	99.7	0.23
C80	75.2	46.0	-75.2	-46.0	0.0	0.0	100.0	100.0	0.00
C162	415.7	294.4	-415.7	-294.4	0.0	0.0	100.0	100.0	0.00
C622	15.9	19.1	-15.9	-19.1	0.0	0.0	100.0	100.0	0.00
T7 Al_deir 1	59.4	26.9	-59.3	-26.4	0.1	0.5	100.0	99.5	0.44
T24 Al-deire 2	15.9	19.1	-15.8	-19.0	0.0	0.1	100.0	99.6	0.42
C56	106.8	55.9	-106.8	-55.9	0.0	0.0	100.0	100.0	0.00
C191	308.9	238.5	-308.9	-238.5	0.0	0.0	100.0	100.0	0.00

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	kW	kvar	kW	kvar	kW	kvar	From	To	
T1 Al-masjid Al_kaber	-81.4	-37.4	81.5	37.9	0.1	0.6	99.6	100.0	0.35
C727	25.3	18.0	-25.3	-18.0	0.0	0.0	100.0	100.0	0.00
R950	25.3	18.0	-25.3	-18.0	0.0	0.0	100.0	100.0	0.00
R410	5.4	3.4	-5.4	-3.4	0.0	0.0	100.0	100.0	0.00
T50 Al-baha	19.9	14.6	-19.8	-14.5	0.1	0.1	100.0	99.3	0.63
R1499	5.4	3.4	-5.4	-3.4	0.0	0.0	100.0	100.0	0.00
T49 Shweki	5.4	3.4	-5.4	-3.4	0.0	0.0	100.0	99.8	0.16
C160	308.9	238.5	-308.8	-238.5	0.0	0.0	100.0	100.0	0.00
C97	302.5	235.1	-302.5	-235.1	0.0	0.0	100.0	100.0	0.00
T52 Bank al_eskan	6.4	3.3	-6.4	-3.3	0.0	0.0	100.0	99.8	0.17
C120	190.4	184.6	-190.4	-184.6	0.0	0.0	100.0	100.0	0.00
C450	30.5	12.6	-30.5	-12.6	0.0	0.0	100.0	100.0	0.00
T3 Maskaneh	81.5	37.9	-81.4	-37.4	0.1	0.6	100.0	99.6	0.35
T29 Juret al_dama	30.5	12.6	-30.5	-12.4	0.1	0.2	100.0	99.6	0.40
C216	190.4	184.6	-190.4	-184.6	0.0	0.0	100.0	100.0	0.00
C100	47.6	22.5	-47.6	-22.5	0.0	0.0	100.0	100.0	0.00
C361	89.7	129.5	-89.7	-129.5	0.0	0.0	100.0	100.0	0.00
T18 Al_sheehk	53.1	32.5	-52.9	-32.1	0.1	0.4	100.0	99.5	0.49
T14 Al_markaz	-47.5	-22.2	47.6	22.5	0.1	0.3	99.6	100.0	0.37
C163	-8.8	73.6	8.8	-73.6	0.0	0.0	100.0	100.0	0.00
C728	39.2	29.1	-39.2	-29.1	0.0	0.0	100.0	100.0	0.00
T9 Abu al_humas	59.4	26.9	-59.3	-26.4	0.1	0.5	100.0	99.5	0.44
C462	23.2	10.3	-23.2	-10.3	0.0	0.0	100.0	100.0	0.00
T13 Qata't al_jamal	16.0	18.8	-16.0	-18.7	0.0	0.1	100.0	99.7	0.24
C280	21.9	7.9	-21.9	-7.9	0.0	0.0	100.0	100.0	0.00
T55 Mana'	1.3	2.4	-1.3	-2.4	0.0	0.0	100.0	99.9	0.05
C419	21.9	7.9	-21.9	-7.9	0.0	0.0	100.0	100.0	0.00
T37 Eshreeteh	-21.9	-7.8	21.9	7.9	0.0	0.1	99.7	100.0	0.27
C365	-31.4	62.8	31.4	-62.8	0.0	0.0	100.0	100.0	0.00
C409	22.6	10.8	-22.6	-10.8	0.0	0.0	100.0	100.0	0.00
T39 Jammoq	-22.5	-10.7	22.6	10.8	0.0	0.1	99.6	100.0	0.32
C603	-47.0	53.4	47.0	-53.4	0.0	0.0	100.0	100.0	0.00
T45 Masafi	15.6	9.3	-15.5	-9.3	0.0	0.1	100.0	99.7	0.25
C203	-206.8	-79.9	206.8	79.9	0.0	0.0	100.0	100.0	0.00
C399	115.9	108.3	-115.9	-108.3	0.0	0.0	100.0	100.0	0.00
T10 Meqtaa' duma	43.9	25.0	-43.8	-24.7	0.1	0.3	100.0	99.6	0.38
C117	110.1	82.3	-110.1	-82.3	0.0	0.0	100.0	100.0	0.00

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	kW	kvar	kW	kvar	kW	kvar	From	To	
T22 Da'na	5.8	26.0	-5.8	-25.9	0.0	0.1	100.0	99.5	0.46
C476	54.1	37.3	-54.1	-37.3	0.0	0.0	100.0	100.0	0.00
Co57	24.6	31.4	-24.6	-31.4	0.0	0.0	100.0	100.0	0.00
T16 Sa'ada	31.4	13.6	-31.4	-13.5	0.0	0.1	100.0	99.7	0.23
C319	24.6	31.4	-24.6	-31.4	0.0	0.0	100.0	100.0	0.00
T53 Al_tork	-24.6	-31.3	24.6	31.4	0.0	0.1	99.7	100.0	0.24
C587	38.2	18.2	-38.2	-18.2	0.0	0.0	100.0	100.0	0.00
T21 Al_mustashfah	15.9	19.1	-15.8	-19.0	0.0	0.1	100.0	99.5	0.42
T28 Domet al_wridat	38.2	18.2	-38.1	-17.9	0.1	0.3	100.0	99.4	0.55
C322	-206.8	-79.9	206.8	79.9	0.0	0.0	100.0	100.0	0.00
C461	22.5	12.1	-22.5	-12.1	0.0	0.0	100.0	100.0	0.00
C577	-241.0	-100.5	241.0	100.5	0.0	0.0	100.0	100.0	0.01
T43 Al_jame'a	11.7	8.6	-11.7	-8.5	0.0	0.0	100.0	99.7	0.22
T32 Khalet al_ayaseh	-22.4	-12.0	22.5	12.1	0.0	0.1	99.6	100.0	0.34
C107	37.5	18.3	-37.5	-18.3	0.0	0.0	100.0	100.0	0.00
C518	-278.5	-118.9	278.5	118.9	0.0	0.0	100.0	100.0	0.01
T12 Aqabit gharrarah	37.5	18.3	-37.4	-18.2	0.1	0.2	100.0	99.6	0.34
C517	-314.6	-137.6	314.7	137.6	0.0	0.0	100.0	100.0	0.01
R803	36.1	18.7	-36.1	-18.7	0.0	0.0	100.0	100.0	0.00
C815	-334.0	-143.6	334.1	143.7	0.0	0.0	100.0	100.0	0.01
T19 Kerbit alama	19.4	6.0	-19.4	-5.9	0.0	0.1	100.0	99.8	0.22
C.450	-350.5	-153.7	350.5	153.7	0.0	0.0	100.0	100.0	0.01
R560	0.0	0.0	0.0	0.0			100.0	100.0	0.00
T38 Al_muhtasib	16.4	10.0	-16.4	-9.9	0.0	0.1	100.0	99.7	0.27
C880	-350.5	-153.7	350.5	153.7	0.0	0.0	100.0	100.0	0.01
T46 Al_jebreni	23.2	20.9	-23.1	-20.7	0.1	0.2	100.0	99.5	0.49
T23 Kurza	36.1	18.7	-36.0	-18.5	0.1	0.3	100.0	99.4	0.54
Co130	355.2	214.7	-355.2	-214.7	0.0	0.0	100.0	100.0	0.00
Co58	60.5	31.8	-60.5	-31.8	0.0	0.0	100.0	100.0	0.00
R164	261.5	152.7	-261.5	-152.7	0.0	0.0	100.0	100.0	0.00
R844	6.4	3.3	-6.4	-3.3	0.0	0.0	100.0	100.0	0.00
T26 Baten alqar'	26.7	26.8	-26.6	-26.6	0.1	0.2	100.0	99.3	0.61
T34 Al_shadaqa	-6.4	-3.3	6.4	3.3	0.0	0.0	99.9	100.0	0.10
Co999	60.1	31.5	-60.1	-31.5	0.0	0.0	100.0	100.0	0.00
T40 Al_helal	0.5	0.3	-0.5	-0.3	0.0	0.0	100.0	100.0	0.01
Co294	53.7	28.2	-53.7	-28.2	0.0	0.0	100.0	100.0	0.00
T33 Al_mizrab	6.4	3.3	-6.4	-3.3	0.0	0.0	100.0	99.9	0.10

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CKT / Branch ID	From-To Bus Flow		To-From Bus Flow		Losses		% Bus Voltage		Vd % Drop in Vmag
	kW	kvar	kW	kvar	kW	kvar	From	To	
D711	53.7	28.2	-53.7	-28.2	0.0	0.0	100.0	100.0	0.00
D655	53.7	28.2	-53.7	-28.2	0.0	0.0	100.0	100.0	0.00
D634	20.8	11.7	-20.8	-11.7	0.0	0.0	100.0	100.0	0.00
T27 Al_muntazah	32.9	16.4	-32.8	-16.2	0.1	0.2	100.0	99.5	0.48
D718	5.4	3.4	-5.4	-3.4	0.0	0.0	100.0	100.0	0.00
T41 Al_muntazah 2	15.4	8.3	-15.4	-8.3	0.0	0.1	100.0	99.7	0.24
D240	5.4	3.4	-5.4	-3.4	0.0	0.0	100.0	100.0	0.00
D256	5.4	3.4	-5.4	-3.4	0.0	0.0	100.0	100.0	0.00
D276	5.4	3.4	-5.4	-3.4	0.0	0.0	100.0	100.0	0.00
T48 Inab al_kabeer	-5.4	-3.4	5.4	3.4	0.0	0.0	99.8	100.0	0.16
R734	261.5	152.7	-261.5	-152.7	0.0	0.0	100.0	99.9	0.01
C352	239.7	131.9	-239.7	-131.9	0.0	0.0	99.9	99.9	0.00
T51 Inab al_sagher	21.8	20.8	-21.6	-20.6	0.1	0.2	99.9	99.1	0.80
C558	20.0	10.1	-20.0	-10.1	0.0	0.0	99.9	99.9	0.00
C806	219.7	121.7	-219.7	-121.7	0.0	0.0	99.9	99.9	0.01
T35 Al_shuqfan	-20.0	-10.0	20.0	10.1	0.1	0.1	99.4	99.9	0.53
R150	159.9	90.5	-159.9	-90.5	0.0	0.0	99.9	99.9	0.00
R1435	30.3	16.9	-30.3	-16.9	0.0	0.0	99.9	99.9	0.00
T8 Karam al_ashqar	29.5	14.3	-29.5	-14.2	0.0	0.1	99.9	99.7	0.23
Co261	10.4	5.9	-10.4	-5.9	0.0	0.0	99.9	99.9	0.00
T30 Kafar joul	19.9	11.0	-19.8	-10.9	0.0	0.1	99.9	99.6	0.31
Co645	10.4	5.9	-10.4	-5.9	0.0	0.0	99.9	99.9	0.00
Co528	4.0	2.6	-4.0	-2.6	0.0	0.0	99.9	99.9	0.00
T36 Al_estad	6.4	3.3	-6.4	-3.3	0.0	0.0	99.9	99.8	0.10
Co14	0.0	0.0	0.0	0.0			99.9	99.9	
R10	4.0	2.6	-4.0	-2.6	0.0	0.0	99.9	99.9	0.00
T44 Alghwla	-4.0	-2.6	4.0	2.6	0.0	0.0	99.9	99.9	0.07
R380	159.9	90.5	-159.9	-90.5	0.0	0.0	99.9	99.9	0.00
C.20	159.9	90.5	-159.9	-90.5	0.0	0.0	99.9	99.9	0.00
R45	159.9	90.5	-159.9	-90.5	0.0	0.0	99.9	99.9	0.00
C368	106.2	66.2	-106.2	-66.2	0.0	0.0	99.9	99.9	0.00
C811	53.7	24.2	-53.7	-24.2	0.0	0.0	99.9	99.9	0.00
T15 Abu hashim	106.2	66.2	-105.8	-64.6	0.4	1.7	99.9	98.9	0.99
C60	0.0	0.0	0.0	0.0			99.9	99.9	
C440	-5.4	-3.4	5.4	3.4	0.0	0.0	99.9	99.9	0.00
T31 Sam'a	5.4	3.4	-5.4	-3.4	0.0	0.0	99.9	99.8	0.09
Co260	0.0	0.0	0.0	0.0			99.9	99.9	

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	kW	kvar	kW	kvar	kW	kvar	From	To	
Co.1032	0.0	0.0	0.0	0.0			99.9	99.9	0.00
T11 Wad ali	48.3	20.8	-48.2	-20.5	0.1	0.3	99.9	99.6	0.35
T56 Al jebreny step up	380.0	184.0	-373.7	-174.6	6.3	9.4	99.9	100.0	0.14
					9.8	19.9			

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