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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	2437.4	951.5	-2437.3	-951.5	0.1	0.1	100.0	100.0	0.01
C61	901.0	362.4	-901.0	-362.4	0.0	0.0	100.0	100.0	0.00
C96	1536.2	589.0	-1536.2	-589.0	0.1	0.1	100.0	100.0	0.01
R106	901.0	362.4	-900.9	-362.4	0.0	0.0	100.0	100.0	0.01
R190	878.4	348.3	-878.4	-348.3	0.1	0.1	100.0	100.0	0.01
T25 Rasmi wahab	22.5	14.0	-22.4	-13.9	0.0	0.1	100.0	99.6	0.38
R436	878.4	348.3	-878.2	-348.2	0.2	0.1	100.0	100.0	0.02
C59	822.3	320.8	-822.3	-320.7	0.0	0.0	100.0	100.0	0.00
T4 Bear mtawi'	55.9	27.4	-55.9	-27.1	0.0	0.3	100.0	99.7	0.25
C514	166.5	72.9	-166.5	-72.9	0.0	0.0	100.0	99.9	0.00
Co600	655.8	247.9	-655.7	-247.8	0.1	0.1	100.0	99.9	0.01
C463	16.0	5.6	-16.0	-5.6	0.0	0.0	99.9	99.9	0.00
C526	150.5	67.3	-150.5	-67.3	0.0	0.0	99.9	99.9	0.00
T47 Abu_njeem 1	16.0	5.6	-15.9	-5.5	0.0	0.1	99.9	99.6	0.36
C422	119.7	56.0	-119.7	-56.0	0.0	0.0	99.9	99.9	0.00
T42 Abu njeem 2	30.8	11.3	-30.7	-11.1	0.1	0.2	99.9	99.6	0.38
C193	23.0	12.3	-23.0	-12.3	0.0	0.0	99.9	99.9	0.00
T5 Wad algamary 1	96.8	43.7	-96.5	-42.5	0.3	1.2	99.9	99.2	0.72
R455	23.0	12.3	-23.0	-12.3	0.0	0.0	99.9	99.9	0.00
T6 Wad algamary 2	23.0	12.3	-22.9	-12.2	0.0	0.1	99.9	99.6	0.35
C473	1463.6	565.8	-1463.3	-565.6	0.3	0.2	100.0	100.0	0.03
T20 Aqabit al_tarsha	72.6	23.2	-72.2	-22.2	0.4	0.9	100.0	99.1	0.85
C246	1365.8	522.1	-1365.6	-522.0	0.2	0.1	100.0	100.0	0.01
C330	16.0	5.6	-16.0	-5.6	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	16.0	5.6	-15.9	-5.5	0.0	0.1	100.0	99.6	0.36
C128	1309.5	506.2	-1309.5	-506.1	0.1	0.1	100.0	99.9	0.01
T17 Al_baladiya	56.1	15.8	-56.0	-15.4	0.1	0.4	100.0	99.6	0.32
C80	139.4	50.7	-139.4	-50.7	0.0	0.0	99.9	99.9	0.00
C162	1170.1	455.5	-1170.0	-455.4	0.1	0.1	99.9	99.9	0.01
C622	22.5	14.0	-22.5	-14.0	0.0	0.0	99.9	99.9	0.00
T7 Al_deir 1	116.9	36.6	-116.5	-35.0	0.4	1.6	99.9	99.2	0.70
T24 Al-deire 2	22.5	14.0	-22.4	-13.9	0.0	0.1	99.9	99.6	0.38
C56	150.7	58.0	-150.7	-58.0	0.0	0.0	99.9	99.9	0.00
C191	1019.3	397.4	-1019.2	-397.4	0.1	0.0	99.9	99.9	0.01

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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	
T1 Al-masjid Al_kaber	-81.4	-37.4	81.5	37.9	0.1	0.6	99.6	99.9	0.35
C727	69.2	20.0	-69.2	-20.0	0.0	0.0	99.9	99.9	0.00
R950	69.2	20.0	-69.2	-20.0	0.0	0.0	99.9	99.9	0.00
R410	14.2	5.9	-14.2	-5.9	0.0	0.0	99.9	99.9	0.00
T50 Al-baha	55.0	14.2	-54.5	-13.4	0.5	0.8	99.9	98.8	1.13
R1499	14.2	5.9	-14.2	-5.9	0.0	0.0	99.9	99.9	0.00
T49 Shweki	14.2	5.9	-14.2	-5.8	0.0	0.1	99.9	99.6	0.34
C160	1019.2	397.4	-1019.2	-397.4	0.1	0.0	99.9	99.9	0.01
C97	1003.2	391.8	-1003.1	-391.8	0.0	0.0	99.9	99.9	0.00
T52 Bank al_eskan	16.0	5.6	-15.9	-5.5	0.0	0.1	99.9	99.6	0.36
C120	849.5	318.2	-849.5	-318.2	0.0	0.0	99.9	99.9	0.00
C450	72.2	35.6	-72.1	-35.6	0.0	0.0	99.9	99.9	0.00
T3 Maskaneh	81.5	37.9	-81.4	-37.4	0.1	0.6	99.9	99.6	0.35
T29 Juret al_dama	72.1	35.6	-71.7	-34.6	0.4	1.1	99.9	98.9	1.05
C216	849.5	318.2	-849.4	-318.2	0.1	0.0	99.9	99.9	0.01
C100	69.3	20.9	-69.3	-20.9	0.0	0.0	99.9	99.9	0.00
C361	666.0	246.1	-666.0	-246.1	0.1	0.0	99.9	99.9	0.01
T18 Al_sheehk	114.1	51.2	-113.7	-49.5	0.4	1.7	99.9	99.1	0.85
T14 Al_markaz	-69.1	-20.4	69.3	20.9	0.1	0.6	99.5	99.9	0.41
C163	433.7	165.2	-433.7	-165.2	0.0	0.0	99.9	99.9	0.00
C728	115.4	44.2	-115.4	-44.2	0.0	0.0	99.9	99.9	0.00
T9 Abu al_humas	116.9	36.6	-116.5	-35.0	0.4	1.6	99.9	99.2	0.70
C462	68.5	25.4	-68.5	-25.4	0.0	0.0	99.9	99.9	0.00
T13 Qata't al_jamal	46.9	18.9	-46.9	-18.6	0.1	0.3	99.9	99.6	0.33
C280	52.5	13.1	-52.5	-13.1	0.0	0.0	99.9	99.9	0.00
T55 Mana'	16.0	12.3	-15.9	-12.2	0.0	0.1	99.9	99.6	0.30
C419	52.5	13.1	-52.5	-13.1	0.0	0.0	99.9	99.9	0.00
T37 EshreeteH	-52.3	-12.6	52.5	13.1	0.2	0.5	99.3	99.9	0.55
C365	378.9	151.1	-378.9	-151.1	0.0	0.0	99.9	99.9	0.01
C409	54.8	14.1	-54.8	-14.1	0.0	0.0	99.9	99.9	0.00
T39 Jammoq	-54.6	-13.6	54.8	14.1	0.2	0.5	99.3	99.9	0.59
C603	332.5	134.5	-332.5	-134.5	0.0	0.0	99.9	99.9	0.01
T45 Masafi	46.4	16.6	-46.2	-16.2	0.2	0.4	99.9	99.3	0.57
C203	-15.2	-43.9	15.2	43.9	0.0	0.0	99.9	99.9	0.00
C399	262.1	145.6	-262.1	-145.6	0.0	0.0	99.9	99.9	0.00
T10 Meqtaa' duma	85.6	32.8	-85.4	-31.9	0.2	0.9	99.9	99.3	0.58
C117	239.6	131.6	-239.6	-131.6	0.0	0.0	99.9	99.9	0.00

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	kW	kvar	kW	kvar	kW	kvar	From	To	
T22 Da'na	22.5	14.0	-22.4	-13.9	0.0	0.1	99.9	99.5	0.38
C476	114.7	40.9	-114.7	-40.9	0.0	0.0	99.9	99.9	0.00
Co57	68.8	74.9	-68.8	-74.9	0.0	0.0	99.9	99.9	0.00
T16 Sa'ada	56.1	15.8	-56.0	-15.4	0.1	0.4	99.9	99.6	0.32
C319	68.8	74.9	-68.8	-74.9	0.0	0.0	99.9	99.9	0.00
T53 Al_tork	-68.7	-74.2	68.8	74.9	0.1	0.7	99.3	99.9	0.59
C587	67.8	21.9	-67.8	-21.9	0.0	0.0	99.9	99.9	0.00
T21 Al_mustashfah	47.0	19.0	-46.8	-18.6	0.2	0.4	99.9	99.3	0.62
T28 Domet al_wridat	67.8	21.9	-67.4	-21.1	0.3	0.8	99.9	99.1	0.80
C322	-15.2	-43.9	15.2	43.9	0.0	0.0	99.9	99.9	0.00
C461	24.3	7.7	-24.3	-7.7	0.0	0.0	99.9	99.9	0.00
C577	-71.8	-64.6	71.8	64.6	0.0	0.0	99.9	99.9	0.00
T43 Al_jame'a	32.3	13.0	-32.2	-12.8	0.1	0.2	99.9	99.5	0.42
T32 Khalet al_ayaseh	-24.2	-7.6	24.3	7.7	0.0	0.1	99.6	99.9	0.28
C107	84.7	28.6	-84.7	-28.6	0.0	0.0	99.9	99.9	0.00
C518	-156.4	-93.2	156.5	93.2	0.0	0.0	99.9	99.9	0.00
T12 Aqabit gharrarah	84.7	28.6	-84.3	-27.8	0.3	0.8	99.9	99.3	0.64
C517	-229.0	-116.4	229.0	116.4	0.0	0.0	99.9	99.9	0.00
R803	72.5	23.2	-72.5	-23.2	0.0	0.0	99.9	99.9	0.00
C815	-264.4	-123.7	264.4	123.8	0.0	0.0	99.9	99.9	0.01
T19 Kerbit alama	35.4	7.3	-35.3	-7.1	0.1	0.2	99.9	99.5	0.35
C.450	-302.6	-136.6	302.6	136.6	0.0	0.0	99.9	99.9	0.01
R560	0.0	0.0	0.0	0.0			99.9	99.9	0.00
T38 Al_muhtasib	38.2	12.9	-38.1	-12.6	0.1	0.3	99.9	99.4	0.46
C880	-302.6	-136.6	302.7	136.6	0.0	0.0	99.9	99.9	0.01
T46 Al_jebreni	71.0	37.9	-70.6	-36.8	0.4	1.1	99.9	98.8	1.08
T23 Kurza	72.5	23.2	-72.1	-22.2	0.4	0.9	99.9	99.0	0.85
Co130	655.7	247.8	-655.7	-247.8	0.0	0.0	99.9	99.9	0.00
Co58	135.7	46.9	-135.7	-46.9	0.0	0.0	99.9	99.9	0.00
R164	447.2	164.6	-447.2	-164.6	0.0	0.0	99.9	99.9	0.00
R844	16.0	5.5	-16.0	-5.5	0.0	0.0	99.9	99.9	0.00
T26 Baten alqar'	56.8	30.6	-56.5	-29.9	0.3	0.7	99.9	99.1	0.87
T34 Al_shadaqa	-15.9	-5.5	16.0	5.5	0.0	0.0	99.7	99.9	0.19
Co999	129.2	44.8	-129.2	-44.8	0.0	0.0	99.9	99.9	0.00
T40 Al_helal	6.5	2.2	-6.5	-2.2	0.0	0.0	99.9	99.9	0.08
Co294	113.3	39.2	-113.2	-39.2	0.0	0.0	99.9	99.9	0.00
T33 Al_mizrab	16.0	5.5	-15.9	-5.5	0.0	0.0	99.9	99.7	0.19

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	kW	kvar	kW	kvar	kW	kvar	From	To	
D711	113.2	39.2	-113.2	-39.2	0.0	0.0	99.9	99.9	0.00
D655	113.2	39.2	-113.2	-39.2	0.0	0.0	99.9	99.9	0.00
D634	45.0	17.2	-45.0	-17.2	0.0	0.0	99.9	99.9	0.00
T27 Al_muntazah	68.3	22.1	-67.9	-21.2	0.3	0.8	99.9	99.1	0.80
D718	14.2	5.9	-14.2	-5.9	0.0	0.0	99.9	99.9	0.00
T41 Al_muntazah 2	30.7	11.3	-30.7	-11.1	0.1	0.2	99.9	99.5	0.38
D240	14.2	5.9	-14.2	-5.9	0.0	0.0	99.9	99.9	0.00
D256	14.2	5.9	-14.2	-5.9	0.0	0.0	99.9	99.9	0.00
D276	14.2	5.9	-14.2	-5.9	0.0	0.0	99.9	99.9	0.00
T48 Inab al_kabeer	-14.2	-5.8	14.2	5.9	0.0	0.1	99.6	99.9	0.34
R734	447.2	164.6	-447.1	-164.6	0.1	0.1	99.9	99.9	0.02
C352	393.2	146.3	-393.2	-146.3	0.0	0.0	99.9	99.9	0.01
T51 Inab al_sagher	53.9	18.2	-53.4	-17.5	0.5	0.8	99.9	98.7	1.21
C558	40.4	13.9	-40.4	-13.9	0.0	0.0	99.9	99.9	0.00
C806	352.8	132.5	-352.7	-132.5	0.0	0.0	99.9	99.9	0.01
T35 Al_shuqfan	-40.1	-13.4	40.4	13.9	0.3	0.4	99.0	99.9	0.91
R150	221.3	85.2	-221.3	-85.2	0.0	0.0	99.9	99.9	0.00
R1435	74.9	28.8	-74.8	-28.8	0.0	0.0	99.9	99.9	0.00
T8 Karam al_ashqar	56.6	18.4	-56.5	-18.1	0.1	0.4	99.9	99.6	0.35
Co261	27.3	10.1	-27.3	-10.1	0.0	0.0	99.9	99.9	0.00
T30 Kafar joul	47.6	18.7	-47.4	-18.3	0.2	0.4	99.9	99.3	0.62
Co645	27.3	10.1	-27.3	-10.1	0.0	0.0	99.9	99.9	0.00
Co528	11.3	4.5	-11.3	-4.5	0.0	0.0	99.9	99.9	0.00
T36 Al_estad	16.0	5.5	-15.9	-5.5	0.0	0.0	99.9	99.7	0.19
Co14	0.0	0.0	0.0	0.0			99.9	99.9	
R10	11.3	4.5	-11.3	-4.5	0.0	0.0	99.9	99.9	0.00
T44 Alghwla	-11.3	-4.5	11.3	4.5	0.0	0.0	99.7	99.9	0.15
R380	221.3	85.2	-221.3	-85.2	0.0	0.0	99.9	99.9	0.01
C.20	221.3	85.2	-221.3	-85.2	0.0	0.0	99.9	99.9	0.00
R45	221.3	85.2	-221.3	-85.2	0.0	0.0	99.9	99.9	0.00
C368	114.1	51.2	-114.1	-51.2	0.0	0.0	99.9	99.9	0.00
C811	107.2	34.0	-107.2	-34.0	0.0	0.0	99.9	99.9	0.00
T15 Abu hashim	114.1	51.2	-113.7	-49.5	0.4	1.7	99.9	99.0	0.85
C60	0.0	0.0	0.0	0.0			99.9	99.9	0.00
C440	-14.2	-5.9	14.2	5.9	0.0	0.0	99.9	99.9	0.00
T31 Sam'a	14.2	5.9	-14.2	-5.8	0.0	0.0	99.9	99.7	0.19
Co260	0.0	0.0	0.0	0.0			99.9	99.9	0.00

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	kW	kvar	kW	kvar	kW	kvar	From	To	% Drop in Vmag
Co.1032	0.0	0.0	0.0	0.0			99.9	99.9	
T11 Wad ali	93.0	28.2	-92.8	-27.1	0.3	1.0	99.9	99.3	0.54
T56 Al jebreny step up	380.0	184.0	-373.7	-174.5	6.3	9.5	99.8	99.9	0.13
					17.5	38.6			

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