Feb 01, 2012 11:20:45

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SKM POWER*TOOLS FOR WINDOWS

LOAD FLOW AND VOLTAGE DROP ANALYSIS REPORT

*** SOLUTION COMMENTS ***

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SOLUTION PARAMETERS

BRANCH VOLTAGE CRITERIA : 3.00 %

BUS VOLTAGE CRITERIA : 5.00 %

UTILITY IMPEDANCE : YES

TRANSFORMER PHASE SHIFT : NO

LTC TRANSFORMER : NO

CALCULATION NETHOD : Newton Method

SOLUTION METHOD : EXACT

ALL PU VALUES ARE EXPRESSED ON A 100 MVA BASE

LOAD FLOW IS BASED ON CONNECTED LOADS.

LOAD ANALYSIS INCLUDES ALL LOADS.

<<PERCENT VOLTAGE DROPS ARE BASED ON NOMINAL DESIGN VOLTAGES>>

SWING GENERATORS

SOURCE NAME VOLTAGE ANGLE

==========

WP&L Feeder 1.000 0.00

GEN-HP 1.000 0.00

PV GENERATORS

SOURCE NAME VOLTAGE kW kVARMIN kVARMAX PARTICIPATION

==========

BUS VOLTAGE CONVERGENCY CRITERIA: 0.00001000 PU

LARGEST BUS VOLTAGE MISMATCH BUS-0351 -0.12529010 PU

LARGEST BUS VOLTAGE MISMATCH BUS-0351 -0.00291715 PU

LARGEST BUS VOLTAGE MISMATCH BUS-0351 -0.00000191 PU

BALANCED VOLTAGE DROP AND LOAD FLOW ANALYSIS (SWING GENERATORS)

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SOURCE	VOLTAGE	ANGLE	KW	KVAR	VD%	(UTILITY IMPEDANCE)
WP&L Feeder	1.000	0.00	10206.81	5758.29	4.71	0.07654 +j 0.61231
GEN-HP	1.000	0.00	41.54	28.50	5.40	8.00000 +j 160.00000

BALANCED VOLTAGE DROP AND LOAD FLOW ANALYSIS (PV GENERATOR SCHEDULE REPORT)

****

	---VOLTAGE---		-KVAR LIMITS-		---ACTUAL----	
PV SOURCE NAME	SCHED.	ACTUAL	MIN	MAX	KW	KVAR

BALANCED VOLTAGE DROP AND LOAD FLOW ANALYSIS

****

VOLTAGE EFFECT ON LOADS MODELED

VOLTAGE DROP CRITERIA: BRANCH = 3.00% BUS = 5.00%

==== BUS: BUS-0021 DESIGN VOLTS: 208 BUS VOLTS: 193 %VD: 7.00 $

========== PU BUS VOLTAGE: 0.930 ANGLE: -4.7 DEGREES

LOAD FROM: BUS-TDIS-0021 TDIS-0021 TRANSF AMPS: 431.1 VOLTAGE DROP: 4. %VD: 1.93

PROJECTED POWER FLOW: 130.0 KW 63.0 KVAR 144.4 KVA 0.90 LAGGING

LOSSES THRU TRANSF: 1.4 KW 4.0 KVAR 4.2 KVA

BRANCH DIVERSITY LOAD: 130.0 KW 63.0 KVAR

==== BUS: BUS-0031 DESIGN VOLTS: 208 BUS VOLTS: 195 %VD: 6.36 $

========== PU BUS VOLTAGE: 0.936 ANGLE: -4.5 DEGREES

LOAD FROM: BUS-TDIS-0031P TDIS-0031 TRANSF AMPS: 349.1 VOLTAGE DROP: 3. %VD: 1.29

PROJECTED POWER FLOW: 106.0 KW 51.3 KVAR 117.8 KVA 0.90 LAGGING

LOSSES THRU TRANSF: 0.5 KW 2.6 KVAR 2.6 KVA

BRANCH DIVERSITY LOAD: 106.0 KW 51.3 KVAR

==== BUS: BUS-0041 DESIGN VOLTS: 480 BUS VOLTS: 452 %VD: 5.86 $

========== PU BUS VOLTAGE: 0.941 ANGLE: -4.2 DEGREES

LOAD FROM: BUS-TDIS-0041P TDIS-0041 TRANSF AMPS: 295.3 VOLTAGE DROP: 4. %VD: 0.78

PROJECTED POWER FLOW: 208.0 KW 100.7 KVAR 231.1 KVA 0.90 LAGGING

LOSSES THRU TRANSF: 0.6 KW 3.2 KVAR 3.3 KVA

BRANCH DIVERSITY LOAD: 208.0 KW 100.7 KVAR

==== BUS: BUS-0051 DESIGN VOLTS: 480 BUS VOLTS: 446 %VD: 7.02 $

========== PU BUS VOLTAGE: 0.930 ANGLE: -5.0 DEGREES

LOAD FROM: BUS-TDIS-0051 TDIS-0051 TRANSF AMPS: 379.5 VOLTAGE DROP: 9. %VD: 1.95

PROJECTED POWER FLOW: 264.0 KW 127.9 KVAR 293.3 KVA 0.90 LAGGING

LOSSES THRU TRANSF: 2.0 KW 9.8 KVAR 10.0 KVA

BRANCH DIVERSITY LOAD: 264.0 KW 127.9 KVAR

==== BUS: BUS-0071 DESIGN VOLTS: 208 BUS VOLTS: 189 %VD: 8.99 $

========== PU BUS VOLTAGE: 0.910 ANGLE: -6.5 DEGREES

BALANCED VOLTAGE DROP AND LOAD FLOW ANALYSIS

****

VOLTAGE EFFECT ON LOADS MODELED

VOLTAGE DROP CRITERIA: BRANCH = 3.00% BUS = 5.00%

LOAD FROM: BUS-TDIS-0071P TDIS-0071 TRANSF AMPS: 1189.5 VOLTAGE DROP: 9. %VD: 4.14$

PROJECTED POWER FLOW: 351.0 KW 170.0 KVAR 390.0 KVA 0.90 LAGGING

LOSSES THRU TRANSF: 6.1 KW 26.9 KVAR 27.5 KVA

BRANCH DIVERSITY LOAD: 351.0 KW 170.0 KVAR

==== BUS: BUS-0072 DESIGN VOLTS: 480 BUS VOLTS: 445 %VD: 7.39 $

========== PU BUS VOLTAGE: 0.926 ANGLE: -5.4 DEGREES

LOAD FROM: BUS-TDIS-0072P TDIS-0072 TRANSF AMPS: 427.2 VOLTAGE DROP: 12. %VD: 2.53

PROJECTED POWER FLOW: 296.0 KW 143.4 KVAR 328.9 KVA 0.90 LAGGING

LOSSES THRU TRANSF: 3.0 KW 14.0 KVAR 14.3 KVA

BRANCH DIVERSITY LOAD: 296.0 KW 143.4 KVAR

==== BUS: BUS-0073 DESIGN VOLTS: 480 BUS VOLTS: 450 %VD: 6.27 $

========== PU BUS VOLTAGE: 0.937 ANGLE: -4.6 DEGREES

LOAD FROM: BUS-TDIS-0072P TDIS-0073 TRANSF AMPS: 239.5 VOLTAGE DROP: 7. %VD: 1.41

PROJECTED POWER FLOW: 168.0 KW 81.4 KVAR 186.7 KVA 0.90 LAGGING

LOSSES THRU TRANSF: 0.9 KW 4.4 KVAR 4.5 KVA

BRANCH DIVERSITY LOAD: 168.0 KW 81.4 KVAR

==== BUS: BUS-0081 DESIGN VOLTS: 208 BUS VOLTS: 193 %VD: 7.31 $

========== PU BUS VOLTAGE: 0.927 ANGLE: -5.3 DEGREES

LOAD FROM: BUS-TDIS-0081P TDIS-0081 TRANSF AMPS: 1028.1 VOLTAGE DROP: 5. %VD: 2.32

PROJECTED POWER FLOW: 309.0 KW 149.7 KVAR 343.3 KVA 0.90 LAGGING

LOSSES THRU TRANSF: 2.9 KW 13.4 KVAR 13.7 KVA

BRANCH DIVERSITY LOAD: 309.0 KW 149.7 KVAR

==== BUS: BUS-0100 DESIGN VOLTS: 12470 BUS VOLTS: 11866 %VD: 4.84

========== PU BUS VOLTAGE: 0.952 ANGLE: -3.5 DEGREES

BALANCED VOLTAGE DROP AND LOAD FLOW ANALYSIS

****

VOLTAGE EFFECT ON LOADS MODELED

VOLTAGE DROP CRITERIA: BRANCH = 3.00% BUS = 5.00%

LOAD FROM: PADS-0001 CABL-0201 FEEDER AMPS: 46.0 VOLTAGE DROP: 2. %VD: 0.02

PROJECTED POWER FLOW: 786.2 KW 526.3 KVAR 946.1 KVA 0.83 LAGGING

LOSSES THRU FEEDER: 0.2 KW 0.1 KVAR 0.2 KVA

LOAD TO: BUS-TDIS-0102P CABL-0201A FEEDER AMPS: 23.8 VOLTAGE DROP: 1. %VD: 0.00

PROJECTED POWER FLOW: 405.3 KW 273.8 KVAR 489.1 KVA 0.83 LAGGING

LOSSES THRU FEEDER: 0.0 KW 0.0 KVAR 0.0 KVA

LOAD TO: BUS-TDIS-0101P CABL-0201B FEEDER AMPS: 22.2 VOLTAGE DROP: 1. %VD: 0.00

PROJECTED POWER FLOW: 380.9 KW 252.5 KVAR 457.0 KVA 0.83 LAGGING

LOSSES THRU FEEDER: 0.0 KW 0.0 KVAR 0.0 KVA

==== BUS: BUS-0101 DESIGN VOLTS: 208 BUS VOLTS: 192 %VD: 7.64 $

========== PU BUS VOLTAGE: 0.924 ANGLE: -5.3 DEGREES

LOAD FROM: BUS-TDIS-0101P TDIS-0101 TRANSF AMPS: 1332.9 VOLTAGE DROP: 6. %VD: 2.79

PROJECTED POWER FLOW: 377.0 KW 233.6 KVAR 443.5 KVA 0.85 LAGGING

LOSSES THRU TRANSF: 3.8 KW 18.8 KVAR 19.2 KVA

BRANCH DIVERSITY LOAD: 377.0 KW 233.6 KVAR

==== BUS: BUS-0102 DESIGN VOLTS: 480 BUS VOLTS: 439 %VD: 8.45 $

========== PU BUS VOLTAGE: 0.916 ANGLE: -5.8 DEGREES

LOAD FROM: BUS-TDIS-0102P TDIS-0102 TRANSF AMPS: 618.2 VOLTAGE DROP: 17. %VD: 3.60$

PROJECTED POWER FLOW: 400.0 KW 247.9 KVAR 470.6 KVA 0.85 LAGGING

LOSSES THRU TRANSF: 5.3 KW 25.9 KVAR 26.4 KVA

BRANCH DIVERSITY LOAD: 400.0 KW 247.9 KVAR

==== BUS: BUS-0111 DESIGN VOLTS: 480 BUS VOLTS: 448 %VD: 6.56 $

========== PU BUS VOLTAGE: 0.934 ANGLE: -4.7 DEGREES

BALANCED VOLTAGE DROP AND LOAD FLOW ANALYSIS

****

VOLTAGE EFFECT ON LOADS MODELED

VOLTAGE DROP CRITERIA: BRANCH = 3.00% BUS = 5.00%

LOAD FROM: BUS-TDIS-0111P TDIS-0111 TRANSF AMPS: 360.4 VOLTAGE DROP: 7. %VD: 1.54

PROJECTED POWER FLOW: 252.0 KW 122.0 KVAR 280.0 KVA 0.90 LAGGING

LOSSES THRU TRANSF: 1.5 KW 7.3 KVAR 7.5 KVA

BRANCH DIVERSITY LOAD: 252.0 KW 122.0 KVAR

==== BUS: BUS-0113 DESIGN VOLTS: 208 BUS VOLTS: 194 %VD: 6.50 $

========== PU BUS VOLTAGE: 0.935 ANGLE: -4.7 DEGREES

LOAD FROM: BUS-TDIS-0112P TDIS-0112 TRANSF AMPS: 663.0 VOLTAGE DROP: 3. %VD: 1.47

PROJECTED POWER FLOW: 201.0 KW 97.3 KVAR 223.3 KVA 0.90 LAGGING

LOSSES THRU TRANSF: 1.1 KW 5.6 KVAR 5.7 KVA

BRANCH DIVERSITY LOAD: 201.0 KW 97.3 KVAR

==== BUS: BUS-0114 DESIGN VOLTS: 480 BUS VOLTS: 449 %VD: 6.37 $

========== PU BUS VOLTAGE: 0.936 ANGLE: -4.5 DEGREES

LOAD FROM: BUS-TDIS-0113P TDIS-0113 TRANSF AMPS: 428.2 VOLTAGE DROP: 6. %VD: 1.34

PROJECTED POWER FLOW: 300.0 KW 145.3 KVAR 333.3 KVA 0.90 LAGGING

LOSSES THRU TRANSF: 1.6 KW 7.5 KVAR 7.7 KVA

BRANCH DIVERSITY LOAD: 300.0 KW 145.3 KVAR

==== BUS: BUS-0115 DESIGN VOLTS: 480 BUS VOLTS: 0 %VD: 100.00 $

========== PU BUS VOLTAGE: 0.000 ANGLE: 0.0 DEGREES

**** NO LOAD SPECIFIED ****

==== BUS: BUS-0121 DESIGN VOLTS: 480 BUS VOLTS: 451 %VD: 6.01 $

========== PU BUS VOLTAGE: 0.940 ANGLE: -4.3 DEGREES

LOAD FROM: BUS-TDIS-0121P TDIS-0121 TRANSF AMPS: 300.0 VOLTAGE DROP: 5. %VD: 1.02

PROJECTED POWER FLOW: 211.0 KW 102.2 KVAR 234.4 KVA 0.90 LAGGING

LOSSES THRU TRANSF: 0.8 KW 4.1 KVAR 4.1 KVA

BRANCH DIVERSITY LOAD: 211.0 KW 102.2 KVAR

==== BUS: BUS-0125 DESIGN VOLTS: 480 BUS VOLTS: 441 %VD: 8.19 $

========== PU BUS VOLTAGE: 0.918 ANGLE: -5.2 DEGREES

BALANCED VOLTAGE DROP AND LOAD FLOW ANALYSIS

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VOLTAGE EFFECT ON LOADS MODELED

VOLTAGE DROP CRITERIA: BRANCH = 3.00% BUS = 5.00%

LOAD FROM: BUS-TDIS-0942 TDIS-0942 TRANSF AMPS: 884.3 VOLTAGE DROP: 15. %VD: 3.08$

PROJECTED POWER FLOW: 540.0 KW 405.0 KVAR 675.0 KVA 0.80 LAGGING

LOSSES THRU TRANSF: 5.3 KW 30.1 KVAR 30.6 KVA

BRANCH DIVERSITY LOAD: 540.0 KW 405.0 KVAR

==== BUS: BUS-0141 DESIGN VOLTS: 480 BUS VOLTS: 441 %VD: 8.20 $

========== PU BUS VOLTAGE: 0.918 ANGLE: -5.7 DEGREES

LOAD FROM: BUS-TDIS-0141P TDIS-0141 TRANSF AMPS: 1037.4 VOLTAGE DROP: 16. %VD: 3.38$

PROJECTED POWER FLOW: 673.0 KW 417.1 KVAR 791.8 KVA 0.85 LAGGING

LOSSES THRU TRANSF: 7.4 KW 42.1 KVAR 42.8 KVA

BRANCH DIVERSITY LOAD: 673.0 KW 417.1 KVAR

==== BUS: BUS-0142 DESIGN VOLTS: 480 BUS VOLTS: 441 %VD: 8.11 $

========== PU BUS VOLTAGE: 0.919 ANGLE: -5.7 DEGREES

LOAD FROM: BUS-TDIS-0141P TDIS-0142 TRANSF AMPS: 1010.2 VOLTAGE DROP: 16. %VD: 3.29$

PROJECTED POWER FLOW: 656.0 KW 406.6 KVAR 771.8 KVA 0.85 LAGGING

LOSSES THRU TRANSF: 7.1 KW 39.9 KVAR 40.6 KVA

BRANCH DIVERSITY LOAD: 656.0 KW 406.6 KVAR

==== BUS: BUS-0331 DESIGN VOLTS: 480 BUS VOLTS: 437 %VD: 8.94 $

========== PU BUS VOLTAGE: 0.911 ANGLE: -6.0 DEGREES

LOAD FROM: BUS-TDIS-0331P TDIS-0331 TRANSF AMPS: 508.4 VOLTAGE DROP: 19. %VD: 3.99$

PROJECTED POWER FLOW: 330.1 KW 197.9 KVAR 384.9 KVA 0.86 LAGGING

LOSSES THRU TRANSF: 5.0 KW 23.7 KVAR 24.2 KVA

BRANCH DIVERSITY LOAD: 330.1 KW 197.9 KVAR

==== BUS: BUS-0341 DESIGN VOLTS: 208 BUS VOLTS: 187 %VD: 10.28 $

========== PU BUS VOLTAGE: 0.897 ANGLE: -7.3 DEGREES

BALANCED VOLTAGE DROP AND LOAD FLOW ANALYSIS

****

VOLTAGE EFFECT ON LOADS MODELED

VOLTAGE DROP CRITERIA: BRANCH = 3.00% BUS = 5.00%

LOAD FROM: BUS-TDIS-0341P TDIS-0341 TRANSF AMPS: 2032.6 VOLTAGE DROP: 11. %VD: 5.38$

PROJECTED POWER FLOW: 591.3 KW 286.4 KVAR 657.0 KVA 0.90 LAGGING

LOSSES THRU TRANSF: 14.1 KW 57.8 KVAR 59.5 KVA

BRANCH DIVERSITY LOAD: 591.3 KW 286.4 KVAR

==== BUS: BUS-0351 DESIGN VOLTS: 208 BUS VOLTS: 183 %VD: 11.96 $

========== PU BUS VOLTAGE: 0.880 ANGLE: -8.0 DEGREES

LOAD FROM: BUS-TDIS-0351P TDIS-0351 TRANSF AMPS: 767.2 VOLTAGE DROP: 15. %VD: 7.07$

PROJECTED POWER FLOW: 219.0 KW 106.1 KVAR 243.3 KVA 0.90 LAGGING

LOSSES THRU TRANSF: 7.9 KW 26.7 KVAR 27.8 KVA

BRANCH DIVERSITY LOAD: 219.0 KW 106.1 KVAR

==== BUS: BUS-0371 DESIGN VOLTS: 208 BUS VOLTS: 189 %VD: 8.96 $

========== PU BUS VOLTAGE: 0.910 ANGLE: -6.1 DEGREES

LOAD FROM: BUS-TDIS-0371P TDIS-0371 TRANSF AMPS: 481.0 VOLTAGE DROP: 8. %VD: 3.96$

PROJECTED POWER FLOW: 142.0 KW 68.8 KVAR 157.8 KVA 0.90 LAGGING

LOSSES THRU TRANSF: 2.7 KW 9.7 KVAR 10.1 KVA

BRANCH DIVERSITY LOAD: 142.0 KW 68.8 KVAR

==== BUS: BUS-0391 DESIGN VOLTS: 208 BUS VOLTS: 192 %VD: 7.48 $

========== PU BUS VOLTAGE: 0.925 ANGLE: -4.8 DEGREES

LOAD FROM: BUS-TDIS-0391P TDIS-0391 TRANSF AMPS: 400.0 VOLTAGE DROP: 5. %VD: 2.49

PROJECTED POWER FLOW: 120.0 KW 58.1 KVAR 133.3 KVA 0.90 LAGGING

LOSSES THRU TRANSF: 1.8 KW 4.4 KVAR 4.8 KVA

BRANCH DIVERSITY LOAD: 120.0 KW 58.1 KVAR

==== BUS: BUS-0411 DESIGN VOLTS: 208 BUS VOLTS: 190 %VD: 8.72 $

========== PU BUS VOLTAGE: 0.913 ANGLE: -6.0 DEGREES

BALANCED VOLTAGE DROP AND LOAD FLOW ANALYSIS

****

VOLTAGE EFFECT ON LOADS MODELED

VOLTAGE DROP CRITERIA: BRANCH = 3.00% BUS = 5.00%

LOAD FROM: BUS-TDIS-0411P TDIS-0411 TRANSF AMPS: 415.6 VOLTAGE DROP: 8. %VD: 3.72$

PROJECTED POWER FLOW: 123.0 KW 59.6 KVAR 136.7 KVA 0.90 LAGGING

LOSSES THRU TRANSF: 2.2 KW 7.9 KVAR 8.2 KVA

BRANCH DIVERSITY LOAD: 123.0 KW 59.6 KVAR

==== BUS: BUS-0421 DESIGN VOLTS: 208 BUS VOLTS: 193 %VD: 7.05 $

========== PU BUS VOLTAGE: 0.929 ANGLE: -4.8 DEGREES

LOAD FROM: BUS-TDIS-0421S CABL-HUG_208 FEEDER AMPS: 411.5 VOLTAGE DROP: 1. %VD: 0.26

PROJECTED POWER FLOW: 124.0 KW 60.1 KVAR 137.8 KVA 0.90 LAGGING

LOSSES THRU FEEDER: 0.3 KW 0.3 KVAR 0.4 KVA

BRANCH DIVERSITY LOAD: 124.0 KW 60.1 KVAR

==== BUS: BUS-0441 DESIGN VOLTS: 208 BUS VOLTS: 194 %VD: 6.69 $

========== PU BUS VOLTAGE: 0.933 ANGLE: -4.7 DEGREES

LOAD FROM: BUS-TDIS-0441P TDIS-0441 TRANSF AMPS: 436.3 VOLTAGE DROP: 3. %VD: 1.68

PROJECTED POWER FLOW: 132.0 KW 63.9 KVAR 146.7 KVA 0.90 LAGGING

LOSSES THRU TRANSF: 1.0 KW 3.9 KVAR 4.0 KVA

BRANCH DIVERSITY LOAD: 132.0 KW 63.9 KVAR

==== BUS: BUS-0451 DESIGN VOLTS: 480 BUS VOLTS: 449 %VD: 6.45 $

========== PU BUS VOLTAGE: 0.936 ANGLE: -4.8 DEGREES

LOAD FROM: BUS-TDIS-0451P TDIS-0451 TRANSF AMPS: 475.7 VOLTAGE DROP: 8. %VD: 1.62

PROJECTED POWER FLOW: 333.0 KW 161.3 KVAR 370.0 KVA 0.90 LAGGING

LOSSES THRU TRANSF: 2.1 KW 10.2 KVAR 10.4 KVA

BRANCH DIVERSITY LOAD: 333.0 KW 161.3 KVAR

==== BUS: BUS-0452 DESIGN VOLTS: 480 BUS VOLTS: 444 %VD: 7.55 $

========== PU BUS VOLTAGE: 0.925 ANGLE: -5.7 DEGREES

BALANCED VOLTAGE DROP AND LOAD FLOW ANALYSIS

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VOLTAGE EFFECT ON LOADS MODELED

VOLTAGE DROP CRITERIA: BRANCH = 3.00% BUS = 5.00%

LOAD FROM: BUS-TDIS-0451P TDIS-0452 TRANSF AMPS: 948.3 VOLTAGE DROP: 13. %VD: 2.73

PROJECTED POWER FLOW: 656.0 KW 317.7 KVAR 728.9 KVA 0.90 LAGGING

LOSSES THRU TRANSF: 6.2 KW 35.2 KVAR 35.7 KVA

BRANCH DIVERSITY LOAD: 656.0 KW 317.7 KVAR

==== BUS: BUS-0611_MDPH DESIGN VOLTS: 480 BUS VOLTS: 449 %VD: 6.40 $

========== PU BUS VOLTAGE: 0.936 ANGLE: -4.6 DEGREES

LOAD FROM: SA-0611 TDIS-0611 TRANSF AMPS: 428.3 VOLTAGE DROP: 7. %VD: 1.46

PROJECTED POWER FLOW: 300.0 KW 145.3 KVAR 333.3 KVA 0.90 LAGGING

LOSSES THRU TRANSF: 1.7 KW 8.3 KVAR 8.5 KVA

BRANCH DIVERSITY LOAD: 300.0 KW 145.3 KVAR

==== BUS: BUS-0612_MDPL DESIGN VOLTS: 208 BUS VOLTS: 196 %VD: 5.93 $

========== PU BUS VOLTAGE: 0.941 ANGLE: -4.3 DEGREES

LOAD FROM: SA-0611 TDIS-0612 TRANSF AMPS: 675.4 VOLTAGE DROP: 2. %VD: 0.99

PROJECTED POWER FLOW: 206.0 KW 99.8 KVAR 228.9 KVA 0.90 LAGGING

LOSSES THRU TRANSF: 0.8 KW 3.9 KVAR 3.9 KVA

BRANCH DIVERSITY LOAD: 206.0 KW 99.8 KVAR

==== BUS: BUS-0911 DESIGN VOLTS: 480 BUS VOLTS: 453 %VD: 5.72 $

========== PU BUS VOLTAGE: 0.943 ANGLE: -3.9 DEGREES

LOAD FROM: BUS-GEN-HP CBL-GEN-HP FEEDER AMPS: 64.1 VOLTAGE DROP: 2. %VD: 0.31

PROJECTED POWER FLOW: 41.4 KW 28.4 KVAR 50.2 KVA 0.82 LAGGING

LOSSES THRU FEEDER: 0.2 KW 0.1 KVAR 0.2 KVA

LOAD FROM: BUS-TDIS-0911P TDIS-0911 TRANSF AMPS: 74.8 VOLTAGE DROP: 4. %VD: 0.92

PROJECTED POWER FLOW: 45.6 KW 36.8 KVAR 58.6 KVA 0.78 LAGGING

LOSSES THRU TRANSF: 0.2 KW 0.6 KVAR 0.7 KVA

BRANCH DIVERSITY LOAD: 87.0 KW 65.3 KVAR

==== BUS: BUS-091MAIN DESIGN VOLTS: 12470 BUS VOLTS: 11872 %VD: 4.80

========== PU BUS VOLTAGE: 0.952 ANGLE: -3.5 DEGREES

BALANCED VOLTAGE DROP AND LOAD FLOW ANALYSIS

****

VOLTAGE EFFECT ON LOADS MODELED

VOLTAGE DROP CRITERIA: BRANCH = 3.00% BUS = 5.00%

LOAD FROM: BUS-WP&L CABL-UTIL-0100 FEEDER AMPS: 569.4 VOLTAGE DROP: 11. %VD: 0.09

PROJECTED POWER FLOW: 10198.1 KW 5751.4 KVAR 11708.1 KVA 0.87 LAGGING

LOSSES THRU FEEDER: 8.8 KW 6.9 KVAR 11.1 KVA

LOAD TO: PADS-0007 CABL-0100 FEEDER AMPS: 113.6 VOLTAGE DROP: 12. %VD: 0.09

PROJECTED POWER FLOW: 2032.3 KW 1151.7 KVAR 2335.9 KVA 0.87 LAGGING

LOSSES THRU FEEDER: 2.0 KW 1.2 KVAR 2.3 KVA

LOAD TO: PADS-0001 CABL-0200 FEEDER AMPS: 115.1 VOLTAGE DROP: 3. %VD: 0.03

PROJECTED POWER FLOW: 2031.1 KW 1214.9 KVAR 2366.7 KVA 0.86 LAGGING

LOSSES THRU FEEDER: 0.6 KW 0.3 KVAR 0.7 KVA

LOAD TO: PADS-0006 CABL-0300 FEEDER AMPS: 149.5 VOLTAGE DROP: 7. %VD: 0.06

PROJECTED POWER FLOW: 2699.2 KW 1473.0 KVAR 3075.0 KVA 0.88 LAGGING

LOSSES THRU FEEDER: 1.5 KW 0.9 KVAR 1.8 KVA

LOAD TO: PADS-0012 CABL-0400 FEEDER AMPS: 195.1 VOLTAGE DROP: 1. %VD: 0.01

PROJECTED POWER FLOW: 3389.7 KW 2146.2 KVAR 4012.0 KVA 0.84 LAGGING

LOSSES THRU FEEDER: 0.4 KW 0.2 KVAR 0.4 KVA

LOAD TO: BUS-TDIS-0911P CABL-0500 FEEDER AMPS: 11.6 VOLTAGE DROP: 0. %VD: 0.00

PROJECTED POWER FLOW: 45.8 KW -234.5 KVAR 238.9 KVA 0.19 LEADING

LOSSES THRU FEEDER: 0.0 KW 0.0 KVAR 0.0 KVA

==== BUS: BUS-0941 DESIGN VOLTS: 480 BUS VOLTS: 444 %VD: 7.54 $

========== PU BUS VOLTAGE: 0.925 ANGLE: -5.5 DEGREES

LOAD FROM: BUS-TDIS-0941 TDIS-0941 TRANSF AMPS: 861.5 VOLTAGE DROP: 12. %VD: 2.43

PROJECTED POWER FLOW: 596.0 KW 288.7 KVAR 662.2 KVA 0.90 LAGGING

LOSSES THRU TRANSF: 5.0 KW 28.6 KVAR 29.0 KVA

BRANCH DIVERSITY LOAD: 596.0 KW 288.7 KVAR

==== BUS: BUS-0951 DESIGN VOLTS: 208 BUS VOLTS: 195 %VD: 6.17 $

========== PU BUS VOLTAGE: 0.938 ANGLE: -4.4 DEGREES

BALANCED VOLTAGE DROP AND LOAD FLOW ANALYSIS

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VOLTAGE EFFECT ON LOADS MODELED

VOLTAGE DROP CRITERIA: BRANCH = 3.00% BUS = 5.00%

LOAD FROM: BUS-TDIS-0951P TDIS-0951 TRANSF AMPS: 348.4 VOLTAGE DROP: 2. %VD: 1.18

PROJECTED POWER FLOW: 106.0 KW 51.3 KVAR 117.8 KVA 0.90 LAGGING

LOSSES THRU TRANSF: 0.5 KW 2.2 KVAR 2.3 KVA

BRANCH DIVERSITY LOAD: 106.0 KW 51.3 KVAR

==== BUS: BUS-0952 DESIGN VOLTS: 208 BUS VOLTS: 0 %VD: 100.00 $

========== PU BUS VOLTAGE: 0.000 ANGLE: 0.0 DEGREES

**** NO LOAD SPECIFIED ****

==== BUS: BUS-GEN-HP DESIGN VOLTS: 480 BUS VOLTS: 454 %VD: 5.40 $

========== PU BUS VOLTAGE: 0.946 ANGLE: -3.9 DEGREES

*** PV TYPE GENERATOR:GEN-HP 41.54 KW 28.50 KVAR

LOAD TO: BUS-0911 CBL-GEN-HP FEEDER AMPS: 64.1 VOLTAGE DROP: 2. %VD: 0.31

PROJECTED POWER FLOW: 41.5 KW 28.5 KVAR 50.4 KVA 0.82 LAGGING

LOSSES THRU FEEDER: 0.2 KW 0.1 KVAR 0.2 KVA

==== BUS: BUS-SG-4TAP DESIGN VOLTS: 12470 BUS VOLTS: 11838 %VD: 5.07 $

========== PU BUS VOLTAGE: 0.949 ANGLE: -3.5 DEGREES

LOAD FROM: BUS-TDIS-0041P CABL-0308 FEEDER AMPS: 11.4 VOLTAGE DROP: 1. %VD: 0.00

PROJECTED POWER FLOW: -208.6 KW -104.0 KVAR 233.0 KVA 0.89 LAGGING

LOSSES THRU FEEDER: 0.0 KW 0.0 KVAR 0.0 KVA

LOAD TO: PADS-0004 CABL-0308A FEEDER AMPS: 17.2 VOLTAGE DROP: 0. %VD: 0.00

PROJECTED POWER FLOW: -315.1 KW -157.9 KVAR 352.4 KVA 0.89 LAGGING

LOSSES THRU FEEDER: 0.0 KW 0.0 KVAR 0.0 KVA

LOAD FROM: BUS-TDIS-0031P CABL-0313 FEEDER AMPS: 5.8 VOLTAGE DROP: 0. %VD: 0.00

PROJECTED POWER FLOW: -106.5 KW -53.9 KVAR 119.4 KVA 0.89 LAGGING

LOSSES THRU FEEDER: 0.0 KW 0.0 KVAR 0.0 KVA

==== BUS: BUS-TDIS-0421S DESIGN VOLTS: 208 BUS VOLTS: 194 %VD: 6.80 $

========== PU BUS VOLTAGE: 0.932 ANGLE: -4.8 DEGREES

BALANCED VOLTAGE DROP AND LOAD FLOW ANALYSIS

****

VOLTAGE EFFECT ON LOADS MODELED

VOLTAGE DROP CRITERIA: BRANCH = 3.00% BUS = 5.00%

LOAD TO: BUS-0421 CABL-HUG_208 FEEDER AMPS: 411.5 VOLTAGE DROP: 1. %VD: 0.26

PROJECTED POWER FLOW: 124.3 KW 60.3 KVAR 138.2 KVA 0.90 LAGGING

LOSSES THRU FEEDER: 0.3 KW 0.3 KVAR 0.4 KVA

LOAD FROM: BUS-TDIS-0421P TDIS-0421 TRANSF AMPS: 411.5 VOLTAGE DROP: 4. %VD: 1.79

PROJECTED POWER FLOW: 124.3 KW 60.3 KVAR 138.2 KVA 0.90 LAGGING

LOSSES THRU TRANSF: 1.0 KW 3.9 KVAR 4.0 KVA

==== BUS: PADS-0001 DESIGN VOLTS: 12470 BUS VOLTS: 11869 %VD: 4.82

========== PU BUS VOLTAGE: 0.952 ANGLE: -3.5 DEGREES

LOAD FROM: BUS-091MAIN CABL-0200 FEEDER AMPS: 115.1 VOLTAGE DROP: 3. %VD: 0.03

PROJECTED POWER FLOW: 2030.5 KW 1214.6 KVAR 2366.1 KVA 0.86 LAGGING

LOSSES THRU FEEDER: 0.6 KW 0.3 KVAR 0.7 KVA

LOAD FROM: PADS-0002 CABL-0202 FEEDER AMPS: 99.4 VOLTAGE DROP: 20. %VD: 0.16

PROJECTED POWER FLOW: -1783.4 KW -999.3 KVAR 2044.3 KVA 0.87 LAGGING

LOSSES THRU FEEDER: 2.9 KW 1.8 KVAR 3.4 KVA

LOAD TO: BUS-0100 CABL-0201 FEEDER AMPS: 46.0 VOLTAGE DROP: 2. %VD: 0.02

PROJECTED POWER FLOW: 786.3 KW 526.4 KVAR 946.3 KVA 0.83 LAGGING

LOSSES THRU FEEDER: 0.2 KW 0.1 KVAR 0.2 KVA

LOAD TO: PADS-0012 CABL-0207 FEEDER AMPS: 30.3 VOLTAGE DROP: 2. %VD: 0.02

PROJECTED POWER FLOW: -539.2 KW -311.1 KVAR 622.5 KVA 0.87 LAGGING

LOSSES THRU FEEDER: 0.1 KW 0.1 KVAR 0.1 KVA

==== BUS: PADS-0002 DESIGN VOLTS: 12470 BUS VOLTS: 11849 %VD: 4.98

========== PU BUS VOLTAGE: 0.950 ANGLE: -3.5 DEGREES

LOAD TO: PADS-0001 CABL-0202 FEEDER AMPS: 99.4 VOLTAGE DROP: 20. %VD: 0.16

PROJECTED POWER FLOW: -1780.5 KW -997.5 KVAR 2040.9 KVA 0.87 LAGGING

LOSSES THRU FEEDER: 2.9 KW 1.8 KVAR 3.4 KVA

BALANCED VOLTAGE DROP AND LOAD FLOW ANALYSIS

****

VOLTAGE EFFECT ON LOADS MODELED

VOLTAGE DROP CRITERIA: BRANCH = 3.00% BUS = 5.00%

LOAD TO: BUS-TDIS-0081P CABL-0203 FEEDER AMPS: 17.1 VOLTAGE DROP: 1. %VD: 0.01

PROJECTED POWER FLOW: 311.9 KW 163.1 KVAR 351.9 KVA 0.89 LAGGING

LOSSES THRU FEEDER: 0.0 KW 0.0 KVAR 0.0 KVA

LOAD TO: BUS-TDIS-0121P CABL-0204 FEEDER AMPS: 11.5 VOLTAGE DROP: 1. %VD: 0.01

PROJECTED POWER FLOW: 211.9 KW 106.3 KVAR 237.0 KVA 0.89 LAGGING

LOSSES THRU FEEDER: 0.0 KW 0.0 KVAR 0.0 KVA

LOAD FROM: PADS-0003 CABL-0205 FEEDER AMPS: 70.8 VOLTAGE DROP: 11. %VD: 0.09

PROJECTED POWER FLOW: -1256.8 KW -728.2 KVAR 1452.5 KVA 0.87 LAGGING

LOSSES THRU FEEDER: 1.1 KW 0.7 KVAR 1.3 KVA

==== BUS: PADS-0003 DESIGN VOLTS: 12470 BUS VOLTS: 11838 %VD: 5.07 $

========== PU BUS VOLTAGE: 0.949 ANGLE: -3.5 DEGREES

LOAD FROM: PADS-0004 CABL-0208 FEEDER AMPS: 49.0 VOLTAGE DROP: 0. %VD: 0.00

PROJECTED POWER FLOW: -858.3 KW -522.9 KVAR 1005.0 KVA 0.85 LAGGING

LOSSES THRU FEEDER: 0.0 KW 0.0 KVAR 0.0 KVA

LOAD TO: BUS-TDIS-0021 CABL-0206 FEEDER AMPS: 7.2 VOLTAGE DROP: 0. %VD: 0.00

PROJECTED POWER FLOW: 131.4 KW 67.0 KVAR 147.4 KVA 0.89 LAGGING

LOSSES THRU FEEDER: 0.0 KW 0.0 KVAR 0.0 KVA

LOAD TO: BUS-TDIS-0051 CABL-DOUD FEEDER AMPS: 14.6 VOLTAGE DROP: 0. %VD: 0.00

PROJECTED POWER FLOW: 266.0 KW 137.6 KVAR 299.5 KVA 0.89 LAGGING

LOSSES THRU FEEDER: 0.0 KW 0.0 KVAR 0.0 KVA

LOAD TO: PADS-0002 CABL-0205 FEEDER AMPS: 70.8 VOLTAGE DROP: 11. %VD: 0.09

PROJECTED POWER FLOW: -1255.6 KW -727.5 KVAR 1451.1 KVA 0.87 LAGGING

LOSSES THRU FEEDER: 1.1 KW 0.7 KVAR 1.3 KVA

==== BUS: PADS-0004 DESIGN VOLTS: 12470 BUS VOLTS: 11838 %VD: 5.07 $

========== PU BUS VOLTAGE: 0.949 ANGLE: -3.5 DEGREES

BALANCED VOLTAGE DROP AND LOAD FLOW ANALYSIS

****

VOLTAGE EFFECT ON LOADS MODELED

VOLTAGE DROP CRITERIA: BRANCH = 3.00% BUS = 5.00%

LOAD TO: PADS-0003 CABL-0208 FEEDER AMPS: 49.0 VOLTAGE DROP: 0. %VD: 0.00

PROJECTED POWER FLOW: -858.3 KW -522.9 KVAR 1005.0 KVA 0.85 LAGGING

LOSSES THRU FEEDER: 0.0 KW 0.0 KVAR 0.0 KVA

LOAD TO: MH-0037SPL CABL-0310 FEEDER AMPS: 35.0 VOLTAGE DROP: 1. %VD: 0.01

PROJECTED POWER FLOW: -603.6 KW -387.7 KVAR 717.4 KVA 0.84 LAGGING

LOSSES THRU FEEDER: 0.1 KW 0.0 KVAR 0.1 KVA

LOAD FROM: PADS-0004A CABL-0307 FEEDER AMPS: 66.9 VOLTAGE DROP: 4. %VD: 0.03

PROJECTED POWER FLOW: -1146.8 KW -752.7 KVAR 1371.8 KVA 0.84 LAGGING

LOSSES THRU FEEDER: 0.4 KW 0.3 KVAR 0.5 KVA

LOAD FROM: BUS-SG-4TAP CABL-0308A FEEDER AMPS: 17.2 VOLTAGE DROP: 0. %VD: 0.00

PROJECTED POWER FLOW: -315.1 KW -157.9 KVAR 352.4 KVA 0.89 LAGGING

LOSSES THRU FEEDER: 0.0 KW 0.0 KVAR 0.0 KVA

==== BUS: PADS-0004A DESIGN VOLTS: 12470 BUS VOLTS: 11833 %VD: 5.11 $

========== PU BUS VOLTAGE: 0.949 ANGLE: -3.5 DEGREES

LOAD TO: PADS-0004 CABL-0307 FEEDER AMPS: 66.9 VOLTAGE DROP: 4. %VD: 0.03

PROJECTED POWER FLOW: -1146.4 KW -752.4 KVAR 1371.3 KVA 0.84 LAGGING

LOSSES THRU FEEDER: 0.4 KW 0.3 KVAR 0.5 KVA

LOAD FROM: BUS-TDIS-0941 CABL-0312 FEEDER AMPS: 33.2 VOLTAGE DROP: 1. %VD: 0.01

PROJECTED POWER FLOW: -601.0 KW -317.3 KVAR 679.7 KVA 0.88 LAGGING

LOSSES THRU FEEDER: 0.0 KW 0.0 KVAR 0.0 KVA

LOAD FROM: BUS-TDIS-0942 CABL-0314 FEEDER AMPS: 34.0 VOLTAGE DROP: 1. %VD: 0.01

PROJECTED POWER FLOW: -545.3 KW -435.2 KVAR 697.7 KVA 0.78 LAGGING

LOSSES THRU FEEDER: 0.0 KW 0.0 KVAR 0.1 KVA

==== BUS: PADS-0005 DESIGN VOLTS: 12470 BUS VOLTS: 11844 %VD: 5.02 $

========== PU BUS VOLTAGE: 0.950 ANGLE: -3.5 DEGREES

BALANCED VOLTAGE DROP AND LOAD FLOW ANALYSIS

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VOLTAGE EFFECT ON LOADS MODELED

VOLTAGE DROP CRITERIA: BRANCH = 3.00% BUS = 5.00%

LOAD TO: MH-0011SPL CABL-0311 FEEDER AMPS: 76.3 VOLTAGE DROP: 4. %VD: 0.03

PROJECTED POWER FLOW: -1361.3 KW -773.1 KVAR 1565.5 KVA 0.87 LAGGING

LOSSES THRU FEEDER: 0.4 KW 0.3 KVAR 0.5 KVA

LOAD TO: MH-0037SPL CABL-0306 FEEDER AMPS: 35.0 VOLTAGE DROP: 4. %VD: 0.04

PROJECTED POWER FLOW: 603.9 KW 387.9 KVAR 717.8 KVA 0.84 LAGGING

LOSSES THRU FEEDER: 0.2 KW 0.1 KVAR 0.3 KVA

LOAD FROM: BUS-TDIS-0111P demo CABL-0305 FEEDER AMPS: 13.9 VOLTAGE DROP: 1. %VD: 0.00

PROJECTED POWER FLOW: -253.5 KW -129.4 KVAR 284.6 KVA 0.89 LAGGING

LOSSES THRU FEEDER: 0.0 KW 0.0 KVAR 0.0 KVA

LOAD FROM: PADS-0013 CABL-030X FEEDER AMPS: 27.5 VOLTAGE DROP: 1. %VD: 0.01

PROJECTED POWER FLOW: -503.8 KW -255.8 KVAR 565.0 KVA 0.89 LAGGING

LOSSES THRU FEEDER: 0.0 KW 0.0 KVAR 0.0 KVA

==== BUS: PADS-0006 DESIGN VOLTS: 12470 BUS VOLTS: 11865 %VD: 4.85

========== PU BUS VOLTAGE: 0.951 ANGLE: -3.5 DEGREES

LOAD TO: MH-0006SPL CABL-0309 FEEDER AMPS: 104.0 VOLTAGE DROP: 8. %VD: 0.06

PROJECTED POWER FLOW: 1872.6 KW 1032.0 KVAR 2138.2 KVA 0.88 LAGGING

LOSSES THRU FEEDER: 1.2 KW 0.8 KVAR 1.5 KVA

LOAD FROM: BUS-091MAIN CABL-0300 FEEDER AMPS: 149.5 VOLTAGE DROP: 7. %VD: 0.06

PROJECTED POWER FLOW: 2697.7 KW 1472.1 KVAR 3073.2 KVA 0.88 LAGGING

LOSSES THRU FEEDER: 1.5 KW 0.9 KVAR 1.8 KVA

LOAD FROM: BUS-TDIS-0072P CABL-0302 FEEDER AMPS: 25.7 VOLTAGE DROP: 2. %VD: 0.01

PROJECTED POWER FLOW: -468.0 KW -243.2 KVAR 527.4 KVA 0.89 LAGGING

LOSSES THRU FEEDER: 0.1 KW 0.0 KVAR 0.1 KVA

LOAD FROM: BUS-TDIS-0071P CABL-0301 FEEDER AMPS: 19.8 VOLTAGE DROP: 1. %VD: 0.01

PROJECTED POWER FLOW: -357.1 KW -196.9 KVAR 407.8 KVA 0.88 LAGGING

LOSSES THRU FEEDER: 0.0 KW 0.0 KVAR 0.0 KVA

==== BUS: PADS-0007 DESIGN VOLTS: 12470 BUS VOLTS: 11860 %VD: 4.89

========== PU BUS VOLTAGE: 0.951 ANGLE: -3.5 DEGREES

BALANCED VOLTAGE DROP AND LOAD FLOW ANALYSIS

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VOLTAGE EFFECT ON LOADS MODELED

VOLTAGE DROP CRITERIA: BRANCH = 3.00% BUS = 5.00%

LOAD FROM: BUS-091MAIN CABL-0100 FEEDER AMPS: 113.6 VOLTAGE DROP: 12. %VD: 0.09

PROJECTED POWER FLOW: 2030.3 KW 1150.5 KVAR 2333.6 KVA 0.87 LAGGING

LOSSES THRU FEEDER: 2.0 KW 1.2 KVAR 2.3 KVA

LOAD TO: BUS-TDIS-0341P CABL-0102 FEEDER AMPS: 33.9 VOLTAGE DROP: 1. %VD: 0.01

PROJECTED POWER FLOW: 605.5 KW 344.2 KVAR 696.5 KVA 0.87 LAGGING

LOSSES THRU FEEDER: 0.0 KW 0.0 KVAR 0.0 KVA

LOAD TO: BUS-TDIS-0351P CABL-0101 FEEDER AMPS: 12.8 VOLTAGE DROP: 1. %VD: 0.01

PROJECTED POWER FLOW: 226.9 KW 132.8 KVAR 262.9 KVA 0.86 LAGGING

LOSSES THRU FEEDER: 0.0 KW 0.0 KVAR 0.0 KVA

LOAD TO: PADS-0008 CABL-0103 FEEDER AMPS: 66.9 VOLTAGE DROP: 6. %VD: 0.05

PROJECTED POWER FLOW: 1197.9 KW 673.5 KVAR 1374.3 KVA 0.87 LAGGING

LOSSES THRU FEEDER: 0.6 KW 0.4 KVAR 0.7 KVA

==== BUS: PADS-0008 DESIGN VOLTS: 12470 BUS VOLTS: 11854 %VD: 4.94

========== PU BUS VOLTAGE: 0.951 ANGLE: -3.5 DEGREES

LOAD FROM: PADS-0009 CABL-0106 FEEDER AMPS: 41.6 VOLTAGE DROP: 7. %VD: 0.05

PROJECTED POWER FLOW: -757.0 KW -394.5 KVAR 853.7 KVA 0.89 LAGGING

LOSSES THRU FEEDER: 0.4 KW 0.2 KVAR 0.5 KVA

LOAD TO: BUS-TDIS-0331P CABL-0104 FEEDER AMPS: 19.6 VOLTAGE DROP: 1. %VD: 0.01

PROJECTED POWER FLOW: 335.2 KW 221.6 KVAR 401.8 KVA 0.83 LAGGING

LOSSES THRU FEEDER: 0.0 KW 0.0 KVAR 0.0 KVA

LOAD TO: BUS-TDIS-0361P CABL-0105 FEEDER AMPS: 5.8 VOLTAGE DROP: 0. %VD: 0.00

PROJECTED POWER FLOW: 105.1 KW 57.0 KVAR 119.6 KVA 0.88 LAGGING

LOSSES THRU FEEDER: 0.0 KW 0.0 KVAR 0.0 KVA

LOAD FROM: PADS-0007 CABL-0103 FEEDER AMPS: 66.9 VOLTAGE DROP: 6. %VD: 0.05

PROJECTED POWER FLOW: 1197.3 KW 673.1 KVAR 1373.6 KVA 0.87 LAGGING

LOSSES THRU FEEDER: 0.6 KW 0.4 KVAR 0.7 KVA

==== BUS: PADS-0009 DESIGN VOLTS: 12470 BUS VOLTS: 11848 %VD: 4.99

========== PU BUS VOLTAGE: 0.950 ANGLE: -3.5 DEGREES

BALANCED VOLTAGE DROP AND LOAD FLOW ANALYSIS

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VOLTAGE EFFECT ON LOADS MODELED

VOLTAGE DROP CRITERIA: BRANCH = 3.00% BUS = 5.00%

LOAD TO: PADS-0008 CABL-0106 FEEDER AMPS: 41.6 VOLTAGE DROP: 7. %VD: 0.05

PROJECTED POWER FLOW: -756.6 KW -394.3 KVAR 853.2 KVA 0.89 LAGGING

LOSSES THRU FEEDER: 0.4 KW 0.2 KVAR 0.5 KVA

LOAD TO: PADS-0010 CABL-0109 FEEDER AMPS: 26.9 VOLTAGE DROP: 0. %VD: 0.00

PROJECTED POWER FLOW: 490.1 KW 253.2 KVAR 551.7 KVA 0.89 LAGGING

LOSSES THRU FEEDER: 0.0 KW 0.0 KVAR 0.0 KVA

LOAD FROM: BUS-TDIS-0371P CABL-0107 FEEDER AMPS: 8.0 VOLTAGE DROP: 0. %VD: 0.00

PROJECTED POWER FLOW: -144.7 KW -78.5 KVAR 164.6 KVA 0.88 LAGGING

LOSSES THRU FEEDER: 0.0 KW 0.0 KVAR 0.0 KVA

LOAD FROM: BUS-TDIS-0391P CABL-0108 FEEDER AMPS: 6.7 VOLTAGE DROP: 0. %VD: 0.00

PROJECTED POWER FLOW: -121.8 KW -62.6 KVAR 136.9 KVA 0.89 LAGGING

LOSSES THRU FEEDER: 0.0 KW 0.0 KVAR 0.0 KVA

==== BUS: PADS-0010 DESIGN VOLTS: 12470 BUS VOLTS: 11848 %VD: 4.99

========== PU BUS VOLTAGE: 0.950 ANGLE: -3.5 DEGREES

LOAD TO: PADS-0011 CABL-0112 FEEDER AMPS: 14.1 VOLTAGE DROP: 2. %VD: 0.02

PROJECTED POWER FLOW: 258.3 KW 132.1 KVAR 290.2 KVA 0.89 LAGGING

LOSSES THRU FEEDER: 0.0 KW 0.0 KVAR 0.0 KVA

LOAD FROM: PADS-0009 CABL-0109 FEEDER AMPS: 26.9 VOLTAGE DROP: 0. %VD: 0.00

PROJECTED POWER FLOW: 490.1 KW 253.2 KVAR 551.6 KVA 0.89 LAGGING

LOSSES THRU FEEDER: 0.0 KW 0.0 KVAR 0.0 KVA

LOAD FROM: BUS-TDIS-0951P CABL-0111 FEEDER AMPS: 5.8 VOLTAGE DROP: 0. %VD: 0.00

PROJECTED POWER FLOW: -106.5 KW -53.6 KVAR 119.3 KVA 0.89 LAGGING

LOSSES THRU FEEDER: 0.0 KW 0.0 KVAR 0.0 KVA

LOAD FROM: BUS-TDIS-0411P CABL-0110 FEEDER AMPS: 6.9 VOLTAGE DROP: 0. %VD: 0.00

PROJECTED POWER FLOW: -125.2 KW -67.5 KVAR 142.2 KVA 0.88 LAGGING

LOSSES THRU FEEDER: 0.0 KW 0.0 KVAR 0.0 KVA

==== BUS: PADS-0011 DESIGN VOLTS: 12470 BUS VOLTS: 11846 %VD: 5.01 $

========== PU BUS VOLTAGE: 0.950 ANGLE: -3.5 DEGREES

BALANCED VOLTAGE DROP AND LOAD FLOW ANALYSIS

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VOLTAGE EFFECT ON LOADS MODELED

VOLTAGE DROP CRITERIA: BRANCH = 3.00% BUS = 5.00%

LOAD TO: BUS-TDIS-0441P CABL-0114 FEEDER AMPS: 7.3 VOLTAGE DROP: 1. %VD: 0.00

PROJECTED POWER FLOW: 133.0 KW 67.9 KVAR 149.3 KVA 0.89 LAGGING

LOSSES THRU FEEDER: 0.0 KW 0.0 KVAR 0.0 KVA

LOAD FROM: PADS-0010 CABL-0112 FEEDER AMPS: 14.1 VOLTAGE DROP: 2. %VD: 0.02

PROJECTED POWER FLOW: 258.3 KW 132.1 KVAR 290.1 KVA 0.89 LAGGING

LOSSES THRU FEEDER: 0.0 KW 0.0 KVAR 0.0 KVA

LOAD TO: BUS-TDIS-0421P CABL-0113 FEEDER AMPS: 6.9 VOLTAGE DROP: 0. %VD: 0.00

PROJECTED POWER FLOW: 125.3 KW 64.3 KVAR 140.8 KVA 0.89 LAGGING

LOSSES THRU FEEDER: 0.0 KW 0.0 KVAR 0.0 KVA

==== BUS: PADS-0012 DESIGN VOLTS: 12470 BUS VOLTS: 11871 %VD: 4.81

========== PU BUS VOLTAGE: 0.952 ANGLE: -3.5 DEGREES

LOAD TO: BUS-TDIS-0141P CABL-0401 FEEDER AMPS: 78.8 VOLTAGE DROP: 2. %VD: 0.02

PROJECTED POWER FLOW: 1343.7 KW 905.8 KVAR 1620.5 KVA 0.83 LAGGING

LOSSES THRU FEEDER: 0.2 KW 0.1 KVAR 0.3 KVA

LOAD FROM: PADS-0001 CABL-0207 FEEDER AMPS: 30.3 VOLTAGE DROP: 2. %VD: 0.02

PROJECTED POWER FLOW: -539.3 KW -311.1 KVAR 622.6 KVA 0.87 LAGGING

LOSSES THRU FEEDER: 0.1 KW 0.1 KVAR 0.1 KVA

LOAD FROM: BUS-091MAIN CABL-0400 FEEDER AMPS: 195.1 VOLTAGE DROP: 1. %VD: 0.01

PROJECTED POWER FLOW: 3389.3 KW 2146.0 KVAR 4011.5 KVA 0.84 LAGGING

LOSSES THRU FEEDER: 0.4 KW 0.2 KVAR 0.4 KVA

LOAD TO: BUS-TDIS-0451P CABL-0402 FEEDER AMPS: 86.1 VOLTAGE DROP: 2. %VD: 0.02

PROJECTED POWER FLOW: 1506.2 KW 929.0 KVAR 1769.7 KVA 0.85 LAGGING

LOSSES THRU FEEDER: 0.3 KW 0.2 KVAR 0.3 KVA

==== BUS: PADS-0013 DESIGN VOLTS: 12470 BUS VOLTS: 11843 %VD: 5.03 $

========== PU BUS VOLTAGE: 0.950 ANGLE: -3.5 DEGREES

BALANCED VOLTAGE DROP AND LOAD FLOW ANALYSIS

****

VOLTAGE EFFECT ON LOADS MODELED

VOLTAGE DROP CRITERIA: BRANCH = 3.00% BUS = 5.00%

LOAD FROM: BUS-TDIS-0113P CABL-0304A FEEDER AMPS: 16.5 VOLTAGE DROP: 0. %VD: 0.00

PROJECTED POWER FLOW: -301.6 KW -152.8 KVAR 338.1 KVA 0.89 LAGGING

LOSSES THRU FEEDER: 0.0 KW 0.0 KVAR 0.0 KVA

LOAD FROM: BUS-TDIS-0112P CABL-0304 FEEDER AMPS: 11.1 VOLTAGE DROP: 1. %VD: 0.01

PROJECTED POWER FLOW: -202.2 KW -102.9 KVAR 226.9 KVA 0.89 LAGGING

LOSSES THRU FEEDER: 0.0 KW 0.0 KVAR 0.0 KVA

LOAD TO: PADS-0005 CABL-030X FEEDER AMPS: 27.5 VOLTAGE DROP: 1. %VD: 0.01

PROJECTED POWER FLOW: -503.8 KW -255.8 KVAR 565.0 KVA 0.89 LAGGING

LOSSES THRU FEEDER: 0.0 KW 0.0 KVAR 0.0 KVA

==== BUS: SA-0611 DESIGN VOLTS: 12470 BUS VOLTS: 11854 %VD: 4.94

========== PU BUS VOLTAGE: 0.951 ANGLE: -3.5 DEGREES

LOAD FROM: MH-0006SPL CABL-0316 FEEDER AMPS: 104.0 VOLTAGE DROP: 3. %VD: 0.02

PROJECTED POWER FLOW: 1871.0 KW 1031.0 KVAR 2136.2 KVA 0.88 LAGGING

LOSSES THRU FEEDER: 0.4 KW 0.3 KVAR 0.5 KVA

LOAD FROM: MH-0011SPL CABL-0303 FEEDER AMPS: 76.3 VOLTAGE DROP: 7. %VD: 0.06

PROJECTED POWER FLOW: -1362.5 KW -773.8 KVAR 1566.9 KVA 0.87 LAGGING

LOSSES THRU FEEDER: 0.8 KW 0.5 KVAR 0.9 KVA

LOAD TO: BUS-0611_MDPH TDIS-0611 TRANSF AMPS: 16.5 VOLTAGE DROP: 182. %VD: 1.46

PROJECTED POWER FLOW: 301.7 KW 153.6 KVAR 338.5 KVA 0.89 LAGGING

LOSSES THRU TRANSF: 1.7 KW 8.3 KVAR 8.5 KVA

LOAD TO: BUS-0612_MDPL TDIS-0612 TRANSF AMPS: 11.3 VOLTAGE DROP: 124. %VD: 0.99

PROJECTED POWER FLOW: 206.8 KW 103.6 KVAR 231.3 KVA 0.89 LAGGING

LOSSES THRU TRANSF: 0.8 KW 3.9 KVAR 3.9 KVA

BALANCED VOLTAGE DROP AND LOAD FLOW BUS DATA SUMMARY

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BUS NAME	BASE VOLT	PU VOLT	BUS NAME	BASE VOLT	PU VOLT
BUS-0021	208.	0.9300	BUS-0031	208.	0.9364
BUS-0041	480.	0.9414	BUS-0051	480.	0.9298
BUS-0071	208.	0.9101	BUS-0072	480.	0.9261
BUS-0073	480.	0.9373	BUS-0081	208.	0.9269
BUS-0100	12470.	0.9516	BUS-0101	208.	0.9236
BUS-0102	480.	0.9155	BUS-0111	480.	0.9344
BUS-0113	208.	0.9350	BUS-0114	480.	0.9363
BUS-0115	480.	0.0000	BUS-0121	480.	0.9399
BUS-0125	480.	0.9181	BUS-0129	480.	0.9227
BUS-0131	480.	0.0000	BUS-0137	480.	0.0000
BUS-0141	480.	0.9180	BUS-0142	480.	0.9189
BUS-0331	480.	0.9106	BUS-0341	208.	0.8972
BUS-0351	208.	0.8804	BUS-0361	208.	0.9097
BUS-0371	208.	0.9104	BUS-0391	208.	0.9252
BUS-0411	208.	0.9128	BUS-0421	208.	0.9295
BUS-0441	208.	0.9331	BUS-0451	480.	0.9355
BUS-0452	480.	0.9245	BUS-0611_MDPH	480.	0.9360

BUS-0612_MDPL 208. 0.9407 BUS-0910 12470. 0.9521

BUS-0911 480. 0.9428 BUS-091MAIN 12470. 0.9520

BUS-0941 480. 0.9246 BUS-0951 208. 0.9383

BUS-0952 208. 0.0000 BUS-GEN-HP 480. 0.9460

BUS-SG-4TAP 12470. 0.9493 BUS-TDIS-0021 12470. 0.9493

BUS-TDIS-0031P 12470. 0.9493 BUS-TDIS-0041P 12470. 0.9492

BUS-TDIS-0051 12470. 0.9493 BUS-TDIS-0071P 12470. 0.9514

BUS-TDIS-0072P 12470. 0.9514 BUS-TDIS-0081P 12470. 0.9501

BUS-TDIS-0101P 12470. 0.9515 BUS-TDIS-0102P 12470. 0.9515

BUS-TDIS-0111P 12470. 0.9497 BUS-TDIS-0112P 12470. 0.9497

BUS-TDIS-0113P 12470. 0.9497 BUS-TDIS-0113P 12470. 0.0000

BUS-TDIS-0121P 12470. 0.9501 BUS-TDIS-0141P 12470. 0.9518

BUS-TDIS-0331P 12470. 0.9505 BUS-TDIS-0341P 12470. 0.9510

BUS-TDIS-0351P 12470. 0.9510 BUS-TDIS-0361P 12470. 0.9506

BUS-TDIS-0371P 12470. 0.9501 BUS-TDIS-0391P 12470. 0.9501

BUS-TDIS-0411P 12470. 0.9501 BUS-TDIS-0421P 12470. 0.9499

BUS-TDIS-0421S 208. 0.9320 BUS-TDIS-0441P 12470. 0.9499

BUS-TDIS-0451P 12470. 0.9518 BUS-TDIS-0911P 12470. 0.9520

BUS-TDIS-0941 12470. 0.9489 BUS-TDIS-0942 12470. 0.9489

BUS-TDIS-0951P 12470. 0.9501 BUS-TDIS-0951P 12470. 0.0000

BUS-WP&L 12470. 0.9529 MH-0006SPL 12470. 0.9508

MH-0011SPL 12470. 0.9501 MH-0037SPL 12470. 0.9494

PADS-0001 12470. 0.9518 PADS-0002 12470. 0.9502

PADS-0003 12470. 0.9493 PADS-0004 12470. 0.9493

BALANCED VOLTAGE DROP AND LOAD FLOW BUS DATA SUMMARY

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BUS NAME	BASE VOLT	PU VOLT	BUS NAME	BASE VOLT	PU VOLT
PADS-0004A	12470.	0.9489	PADS-0005	12470.	0.9498
PADS-0006	12470.	0.9515	PADS-0007	12470.	0.9511
PADS-0008	12470.	0.9506	PADS-0009	12470.	0.9501
PADS-0010	12470.	0.9501	PADS-0011	12470.	0.9499
PADS-0012	12470.	0.9519	PADS-0013	12470.	0.9497
SA-0611	12470.	0.9506			

BALANCED VOLTAGE DROP AND LOAD FLOW BRANCH DATA SUMMARY

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BRANCH NAME	FROM NAME	TO NAME	TYPE	VD%	AMPS	KVA	RATING%
CABL-UTIL-0100	BUS-WP&L	BUS-091MAIN	FDR	0.09	569.38	11719.08	120.05
CABL-0100	BUS-091MAIN	PADS-0007	FDR	0.09	113.60	2335.92	42.86
CABL-0200	BUS-091MAIN	PADS-0001	FDR	0.03	115.10	2366.73	43.42
CABL-0300	BUS-091MAIN	PADS-0006	FDR	0.06	149.54	3074.98	56.42
CABL-0400	BUS-091MAIN	PADS-0012	FDR	0.01	195.11	4011.96	73.61
CABL-0500	BUS-091MAIN	BUS-TDIS-0911P	FDR	-0.00	11.62	238.90	4.38
TDIS-0911	BUS-TDIS-0911P	BUS-0911	TX2	0.92	2.88	59.19	20.72
CABL-0202	PADS-0002	PADS-0001	FDR	-0.16	99.44	2040.89	37.52
CABL-0201	PADS-0001	BUS-0100	FDR	0.02	46.03	946.25	17.37
TDIS-0101	BUS-TDIS-0101P	BUS-0101	TX2	2.79	22.23	456.93	80.03
CABL-0103	PADS-0007	PADS-0008	FDR	0.05	66.90	1374.29	25.24
TDIS-0102	BUS-TDIS-0102P	BUS-0102	TX2	3.60	23.80	489.09	77.29
CABL-0201A	BUS-0100	BUS-TDIS-0102P	FDR	0.00	23.80	489.12	8.98
CABL-0205	PADS-0003	PADS-0002	FDR	-0.09	70.77	1451.15	26.70
TDIS-0051	BUS-TDIS-0051	BUS-0051	TX2	1.95	14.61	299.48	63.09
CABL-DOUD	PADS-0003	BUS-TDIS-0051	FDR	0.00	14.61	299.48	5.51

TDIS-0021 BUS-TDIS-0021 BUS-0021 TX2 1.93 7.19 147.44 51.77

CABL-0206 PADS-0003 BUS-TDIS-0021 FDR 0.00 7.19 147.45 2.71

CABL-0208 PADS-0004 PADS-0003 FDR -0.00 49.02 1004.99 18.49

CABL-0311 PADS-0005 MH-0011SPL FDR -0.03 76.31 1565.45 28.79

CABL-0306 PADS-0005 MH-0037SPL FDR 0.04 34.99 717.78 13.20

TDIS-0041 BUS-TDIS-0041P BUS-0041 TX2 0.78 11.37 233.03 18.42

CABL-0308 BUS-TDIS-0041P BUS-SG-4TAP FDR -0.00 11.37 233.03 4.14

CABL-0310 PADS-0004 MH-0037SPL FDR -0.01 34.99 717.43 13.20

CABL-0307 PADS-0004A PADS-0004 FDR -0.03 66.90 1371.25 25.24

TDIS-0941 BUS-TDIS-0941 BUS-0941 TX2 2.43 33.16 679.60 71.62

CBL-GEN-HP BUS-GEN-HP BUS-0911 FDR 0.31 64.06 50.38 37.68

TDIS-0111 BUS-TDIS-0111P BUS-0111 TX2 1.54 13.87 284.61 37.46

demo CABL-0305 BUS-TDIS-0111P PADS-0005 FDR -0.00 13.87 284.61 5.23

CABL-0309 PADS-0006 MH-0006SPL FDR 0.06 104.04 2138.17 39.25

CABL-030X PADS-0013 PADS-0005 FDR -0.01 27.54 564.98 10.39

TDIS-0112 BUS-TDIS-0112P BUS-0113 TX2 1.47 11.06 226.84 35.92

TDIS-0113 BUS-TDIS-0113P BUS-0114 TX2 1.34 16.48 338.11 35.60

CABL-0303 MH-0011SPL SA-0611 FDR -0.06 76.31 1565.94 28.79

TDIS-0071 BUS-TDIS-0071P BUS-0071 TX2 4.14 19.84 407.73 107.14

CABL-0302 BUS-TDIS-0072P PADS-0006 FDR -0.01 25.66 527.33 9.68

TDIS-0072 BUS-TDIS-0072P BUS-0072 TX2 2.53 16.44 337.87 53.25

CABL-0301 BUS-TDIS-0071P PADS-0006 FDR -0.01 19.84 407.73 7.49

CABL-0106 PADS-0009 PADS-0008 FDR -0.05 41.58 853.20 15.69

CABL-0102 PADS-0007 BUS-TDIS-0341P FDR 0.01 33.90 696.47 12.79

TDIS-0341 BUS-TDIS-0341P BUS-0341 TX2 5.38 33.90 696.43 259.67

BALANCED VOLTAGE DROP AND LOAD FLOW BRANCH DATA SUMMARY

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BRANCH NAME	FROM NAME	TO NAME	TYPE	VD%	AMPS	KVA	RATING%
CABL-0101	PADS-0007	BUS-TDIS-0351P	FDR	0.01	12.80	262.89	4.83
TDIS-0351	BUS-TDIS-0351P	BUS-0351	TX2	7.07	12.80	262.87	245.69
TDIS-0331	BUS-TDIS-0331P	BUS-0331	TX2	3.99	19.57	401.76	84.54
CABL-0104	PADS-0008	BUS-TDIS-0331P	FDR	0.01	19.57	401.80	7.38
TDIS-0361	BUS-TDIS-0361P	BUS-0361	TX2	4.09	5.82	119.59	111.82
CABL-0105	PADS-0008	BUS-TDIS-0361P	FDR	0.00	5.82	119.59	2.20
CABL-0109	PADS-0009	PADS-0010	FDR	0.00	26.88	551.65	10.14
CABL-0107	BUS-TDIS-0371P	PADS-0009	FDR	-0.00	8.02	164.64	3.03
CABL-0108	BUS-TDIS-0391P	PADS-0009	FDR	-0.00	6.67	136.92	2.52
TDIS-0391	BUS-TDIS-0391P	BUS-0391	TX2	2.49	6.67	136.92	64.05
TDIS-0081	BUS-TDIS-0081P	BUS-0081	TX2	2.32	17.15	351.92	74.08
CABL-0203	PADS-0002	BUS-TDIS-0081P	FDR	0.01	17.15	351.94	6.47
TDIS-0121	BUS-TDIS-0121P	BUS-0121	TX2	1.02	11.55	236.99	25.01
CABL-0204	PADS-0002	BUS-TDIS-0121P	FDR	0.01	11.55	237.01	4.36
CABL-0110	BUS-TDIS-0411P	PADS-0010	FDR	-0.00	6.93	142.24	2.62
CABL-0112	PADS-0010	PADS-0011	FDR	0.02	14.14	290.18	5.34

CABL-0113 PADS-0011 BUS-TDIS-0421P FDR 0.00 6.86 140.81 2.59

CABL-0114 PADS-0011 BUS-TDIS-0441P FDR 0.00 7.28 149.32 2.75

TDIS-0421 BUS-TDIS-0421P BUS-TDIS-0421S TX2 1.79 6.86 140.81 65.88

CABL-HUG_208 BUS-TDIS-0421S BUS-0421 FDR 0.26 411.46 138.16 58.78

TDIS-0441 BUS-TDIS-0441P BUS-0441 TX2 1.68 7.28 149.31 52.40

CABL-0312 BUS-TDIS-0941 PADS-0004A FDR -0.01 33.16 679.60 12.51

CABL-0401 PADS-0012 BUS-TDIS-0141P FDR 0.02 78.82 1620.55 29.74

CABL-0207 PADS-0001 PADS-0012 FDR -0.02 30.28 622.52 11.43

TDIS-0411 BUS-TDIS-0411P BUS-0411 TX2 3.72 6.93 142.24 99.81

CABL-0111 BUS-TDIS-0951P PADS-0010 FDR -0.00 5.81 119.26 2.19

TDIS-0951 BUS-TDIS-0951P BUS-0951 TX2 1.18 5.81 119.26 41.84

TDIS-0371 BUS-TDIS-0371P BUS-0371 TX2 3.96 8.02 164.64 115.53

CABL-0316 MH-0006SPL SA-0611 FDR 0.02 104.04 2136.71 39.25

TDIS-0611 SA-0611 BUS-0611_MDPH TX2 1.46 16.49 338.53 35.70

TDIS-0612 SA-0611 BUS-0612_MDPL TX2 0.99 11.27 231.31 24.39

CABL-0304A BUS-TDIS-0113P PADS-0013 FDR -0.00 16.48 338.11 6.22

CABL-0304 BUS-TDIS-0112P PADS-0013 FDR -0.01 11.06 226.84 4.17

CABL-0201B BUS-0100 BUS-TDIS-0101P FDR 0.00 22.23 456.95 8.39

TDIS-0141 BUS-TDIS-0141P BUS-0141 TX2 3.38 39.93 820.90 86.25

CABL-0600 BUS-TDIS-0911P BUS-0910 FDR -0.00 13.22 271.92 4.99

CABL-0402 PADS-0012 BUS-TDIS-0451P FDR 0.02 86.07 1769.68 32.47

TDIS-0451 BUS-TDIS-0451P BUS-0451 TX2 1.62 18.31 376.42 52.73

TDIS-0031 BUS-TDIS-0031P BUS-0031 TX2 1.29 5.82 119.40 41.93

CABL-0308A BUS-SG-4TAP PADS-0004 FDR -0.00 17.19 352.44 6.27

CABL-0313 BUS-TDIS-0031P BUS-SG-4TAP FDR -0.00 5.82 119.40 2.12

BALANCED VOLTAGE DROP AND LOAD FLOW BRANCH DATA SUMMARY

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BRANCH NAME	FROM NAME	TO NAME	TYPE	VD%	AMPS	KVA	RATING%
TDIS-0942	BUS-TDIS-0942	BUS-0125	TX2	3.08	34.04	697.62	73.52
CABL-0314	BUS-TDIS-0942	PADS-0004A	FDR	-0.01	34.04	697.62	12.84
TDIS-0073	BUS-TDIS-0072P	BUS-0073	TX2	1.41	9.22	189.47	29.86
TDIS-0142	BUS-TDIS-0141P	BUS-0142	TX2	3.29	38.89	799.37	83.99
TDIS-0452	BUS-TDIS-0451P	BUS-0452	TX2	2.73	36.50	750.38	78.84
TDIS-0912	BUS-TDIS-0451P	BUS-0129	TX2	2.90	31.61	649.82	68.28
TDIS-0114	BUS-TDIS-0113P	BUS-0115	TX2	0.00	0.00	0.00	0.00
TDIS-0453	BUS-TDIS-0951P	BUS-0952	TX2	0.00	0.00	0.00	0.00
TDIS-0915	BUS-TDIS-0341P	BUS-0131	FDR	0.00	0.00	0.00	0.00
TDIS-0914	BUS-TDIS-0911P	BUS-0137	FDR	0.00	0.00	0.00	0.00

NOTE: FDR RATING% = % AMPS RATING BASED ON LIBRARY FLA OR BRANCH INPUT FLA

TX2 RATING% = % KVA RATING BASED ON TRANSFORMER FL KVA

*** T O T A L S Y S T E M L O S S E S ***

134. KW 536. KVAR