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SKM POWER*TOOLS FOR WINDOWS

LOAD FLOW AND VOLTAGE DROP ANALYSIS REPORT

*** SOLUTION COMMENTS ***

==========

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-0071 -0.12083928 PU

LARGEST BUS VOLTAGE MISMATCH BUS-0071 -0.00278449 PU

LARGEST BUS VOLTAGE MISMATCH BUS-0071 -0.00000172 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	12904.11	7853.31	6.50	0.07654 +j 0.61231
GEN-HP	1.000	0.00	50.76	35.98	6.98	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: 190 %VD: 8.89 $

========== PU BUS VOLTAGE: 0.911 ANGLE: -5.7 DEGREES

LOAD FROM: BUS-TDIS-0021 TDIS-0021 TRANSF AMPS: 440.0 VOLTAGE DROP: 4. %VD: 1.97

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

LOSSES THRU TRANSF: 1.4 KW 4.2 KVAR 4.4 KVA

BRANCH DIVERSITY LOAD: 130.0 KW 63.0 KVAR

==== BUS: BUS-0031 DESIGN VOLTS: 208 BUS VOLTS: 191 %VD: 8.23 $

========== PU BUS VOLTAGE: 0.918 ANGLE: -5.5 DEGREES

LOAD FROM: BUS-TDIS-0031P TDIS-0031 TRANSF AMPS: 356.2 VOLTAGE DROP: 3. %VD: 1.31

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

LOSSES THRU TRANSF: 0.5 KW 2.7 KVAR 2.7 KVA

BRANCH DIVERSITY LOAD: 106.0 KW 51.3 KVAR

==== BUS: BUS-0041 DESIGN VOLTS: 480 BUS VOLTS: 441 %VD: 8.12 $

========== PU BUS VOLTAGE: 0.919 ANGLE: -5.5 DEGREES

LOAD FROM: BUS-TDIS-0041P TDIS-0041 TRANSF AMPS: 450.9 VOLTAGE DROP: 6. %VD: 1.20

PROJECTED POWER FLOW: 310.0 KW 150.1 KVAR 344.4 KVA 0.90 LAGGING

LOSSES THRU TRANSF: 1.3 KW 7.5 KVAR 7.6 KVA

BRANCH DIVERSITY LOAD: 310.0 KW 150.1 KVAR

==== BUS: BUS-0051 DESIGN VOLTS: 480 BUS VOLTS: 437 %VD: 8.90 $

========== PU BUS VOLTAGE: 0.911 ANGLE: -6.1 DEGREES

LOAD FROM: BUS-TDIS-0051 TDIS-0051 TRANSF AMPS: 387.3 VOLTAGE DROP: 10. %VD: 1.99

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

LOSSES THRU TRANSF: 2.1 KW 10.2 KVAR 10.4 KVA

BRANCH DIVERSITY LOAD: 264.0 KW 127.9 KVAR

==== BUS: BUS-0071 DESIGN VOLTS: 208 BUS VOLTS: 185 %VD: 10.92 $

========== PU BUS VOLTAGE: 0.891 ANGLE: -7.6 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: 1215.2 VOLTAGE DROP: 9. %VD: 4.23$

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

LOSSES THRU TRANSF: 6.3 KW 28.0 KVAR 28.8 KVA

BRANCH DIVERSITY LOAD: 351.0 KW 170.0 KVAR

==== BUS: BUS-0072 DESIGN VOLTS: 480 BUS VOLTS: 435 %VD: 9.28 $

========== PU BUS VOLTAGE: 0.907 ANGLE: -6.5 DEGREES

LOAD FROM: BUS-TDIS-0072P TDIS-0072 TRANSF AMPS: 436.1 VOLTAGE DROP: 12. %VD: 2.58

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

LOSSES THRU TRANSF: 3.1 KW 14.6 KVAR 14.9 KVA

BRANCH DIVERSITY LOAD: 296.0 KW 143.4 KVAR

==== BUS: BUS-0073 DESIGN VOLTS: 480 BUS VOLTS: 441 %VD: 8.13 $

========== PU BUS VOLTAGE: 0.919 ANGLE: -5.6 DEGREES

LOAD FROM: BUS-TDIS-0072P TDIS-0073 TRANSF AMPS: 244.4 VOLTAGE DROP: 7. %VD: 1.43

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

LOSSES THRU TRANSF: 1.0 KW 4.6 KVAR 4.7 KVA

BRANCH DIVERSITY LOAD: 168.0 KW 81.4 KVAR

==== BUS: BUS-0081 DESIGN VOLTS: 208 BUS VOLTS: 189 %VD: 9.19 $

========== PU BUS VOLTAGE: 0.908 ANGLE: -6.3 DEGREES

LOAD FROM: BUS-TDIS-0081P TDIS-0081 TRANSF AMPS: 1049.5 VOLTAGE DROP: 5. %VD: 2.37

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

LOSSES THRU TRANSF: 3.0 KW 14.0 KVAR 14.3 KVA

BRANCH DIVERSITY LOAD: 309.0 KW 149.7 KVAR

==== BUS: BUS-0100 DESIGN VOLTS: 12470 BUS VOLTS: 11638 %VD: 6.67 $

========== PU BUS VOLTAGE: 0.933 ANGLE: -4.5 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: 47.0 VOLTAGE DROP: 2. %VD: 0.02

PROJECTED POWER FLOW: 786.6 KW 528.2 KVAR 947.4 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: 24.3 VOLTAGE DROP: 1. %VD: 0.01

PROJECTED POWER FLOW: 405.5 KW 274.9 KVAR 489.9 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: 22.7 VOLTAGE DROP: 1. %VD: 0.00

PROJECTED POWER FLOW: 381.0 KW 253.3 KVAR 457.5 KVA 0.83 LAGGING

LOSSES THRU FEEDER: 0.0 KW 0.0 KVAR 0.0 KVA

==== BUS: BUS-0101 DESIGN VOLTS: 208 BUS VOLTS: 188 %VD: 9.53 $

========== PU BUS VOLTAGE: 0.905 ANGLE: -6.3 DEGREES

LOAD FROM: BUS-TDIS-0101P TDIS-0101 TRANSF AMPS: 1360.7 VOLTAGE DROP: 6. %VD: 2.85

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

LOSSES THRU TRANSF: 4.0 KW 19.6 KVAR 20.0 KVA

BRANCH DIVERSITY LOAD: 377.0 KW 233.6 KVAR

==== BUS: BUS-0102 DESIGN VOLTS: 480 BUS VOLTS: 430 %VD: 10.36 $

========== PU BUS VOLTAGE: 0.896 ANGLE: -6.8 DEGREES

LOAD FROM: BUS-TDIS-0102P TDIS-0102 TRANSF AMPS: 631.4 VOLTAGE DROP: 18. %VD: 3.68$

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

LOSSES THRU TRANSF: 5.5 KW 27.0 KVAR 27.6 KVA

BRANCH DIVERSITY LOAD: 400.0 KW 247.9 KVAR

==== BUS: BUS-0111 DESIGN VOLTS: 480 BUS VOLTS: 0 %VD: 100.00 $

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

**** NO LOAD SPECIFIED ****

==== BUS: BUS-0113 DESIGN VOLTS: 208 BUS VOLTS: 191 %VD: 8.38 $

========== PU BUS VOLTAGE: 0.916 ANGLE: -5.7 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-0112P TDIS-0112 TRANSF AMPS: 676.6 VOLTAGE DROP: 3. %VD: 1.50

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

LOSSES THRU TRANSF: 1.2 KW 5.8 KVAR 5.9 KVA

BRANCH DIVERSITY LOAD: 201.0 KW 97.3 KVAR

==== BUS: BUS-0114 DESIGN VOLTS: 480 BUS VOLTS: 440 %VD: 8.25 $

========== PU BUS VOLTAGE: 0.918 ANGLE: -5.6 DEGREES

LOAD FROM: BUS-TDIS-0113P TDIS-0113 TRANSF AMPS: 437.0 VOLTAGE DROP: 7. %VD: 1.37

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

LOSSES THRU TRANSF: 1.7 KW 7.8 KVAR 8.0 KVA

BRANCH DIVERSITY LOAD: 300.0 KW 145.3 KVAR

==== BUS: BUS-0115 DESIGN VOLTS: 480 BUS VOLTS: 436 %VD: 9.07 $

========== PU BUS VOLTAGE: 0.909 ANGLE: -6.2 DEGREES

LOAD FROM: BUS-TDIS-0113P TDIS-0114 TRANSF AMPS: 346.8 VOLTAGE DROP: 11. %VD: 2.19

PROJECTED POWER FLOW: 236.0 KW 114.3 KVAR 262.2 KVA 0.90 LAGGING

LOSSES THRU TRANSF: 2.1 KW 9.9 KVAR 10.1 KVA

BRANCH DIVERSITY LOAD: 236.0 KW 114.3 KVAR

==== BUS: BUS-0121 DESIGN VOLTS: 480 BUS VOLTS: 442 %VD: 7.87 $

========== PU BUS VOLTAGE: 0.921 ANGLE: -5.3 DEGREES

LOAD FROM: BUS-TDIS-0121P TDIS-0121 TRANSF AMPS: 306.1 VOLTAGE DROP: 5. %VD: 1.04

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

LOSSES THRU TRANSF: 0.9 KW 4.2 KVAR 4.3 KVA

BRANCH DIVERSITY LOAD: 211.0 KW 102.2 KVAR

==== BUS: BUS-0125 DESIGN VOLTS: 480 BUS VOLTS: 432 %VD: 10.10 $

========== PU BUS VOLTAGE: 0.899 ANGLE: -6.3 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: 903.1 VOLTAGE DROP: 15. %VD: 3.14$

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

LOSSES THRU TRANSF: 5.5 KW 31.4 KVAR 31.9 KVA

BRANCH DIVERSITY LOAD: 540.0 KW 405.0 KVAR

==== BUS: BUS-0141 DESIGN VOLTS: 480 BUS VOLTS: 432 %VD: 10.10 $

========== PU BUS VOLTAGE: 0.899 ANGLE: -6.8 DEGREES

LOAD FROM: BUS-TDIS-0141P TDIS-0141 TRANSF AMPS: 1059.4 VOLTAGE DROP: 17. %VD: 3.45$

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

LOSSES THRU TRANSF: 7.8 KW 43.9 KVAR 44.6 KVA

BRANCH DIVERSITY LOAD: 673.0 KW 417.1 KVAR

==== BUS: BUS-0142 DESIGN VOLTS: 480 BUS VOLTS: 432 %VD: 10.01 $

========== PU BUS VOLTAGE: 0.900 ANGLE: -6.7 DEGREES

LOAD FROM: BUS-TDIS-0141P TDIS-0142 TRANSF AMPS: 1031.5 VOLTAGE DROP: 16. %VD: 3.36$

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

LOSSES THRU TRANSF: 7.4 KW 41.6 KVAR 42.3 KVA

BRANCH DIVERSITY LOAD: 656.0 KW 406.6 KVAR

==== BUS: BUS-0331 DESIGN VOLTS: 480 BUS VOLTS: 429 %VD: 10.66 $

========== PU BUS VOLTAGE: 0.893 ANGLE: -6.5 DEGREES

LOAD FROM: BUS-TDIS-0331P TDIS-0331 TRANSF AMPS: 434.4 VOLTAGE DROP: 18. %VD: 3.74$

PROJECTED POWER FLOW: 258.1 KW 193.6 KVAR 322.6 KVA 0.80 LAGGING

LOSSES THRU TRANSF: 3.7 KW 17.3 KVAR 17.7 KVA

BRANCH DIVERSITY LOAD: 258.1 KW 193.6 KVAR

==== BUS: BUS-0341 DESIGN VOLTS: 208 BUS VOLTS: 187 %VD: 10.27 $

========== PU BUS VOLTAGE: 0.897 ANGLE: -7.0 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-0341P TDIS-0341 TRANSF AMPS: 1316.4 VOLTAGE DROP: 7. %VD: 3.44$

PROJECTED POWER FLOW: 383.0 KW 185.5 KVAR 425.6 KVA 0.90 LAGGING

LOSSES THRU TRANSF: 5.9 KW 24.3 KVAR 25.0 KVA

BRANCH DIVERSITY LOAD: 383.0 KW 185.5 KVAR

==== BUS: BUS-0351 DESIGN VOLTS: 208 BUS VOLTS: 194 %VD: 6.81 $

========== PU BUS VOLTAGE: 0.932 ANGLE: -4.5 DEGREES

**** NO LOAD SPECIFIED ****

==== BUS: BUS-0371 DESIGN VOLTS: 208 BUS VOLTS: 185 %VD: 11.12 $

========== PU BUS VOLTAGE: 0.889 ANGLE: -7.2 DEGREES

LOAD FROM: BUS-TDIS-0371P TDIS-0371 TRANSF AMPS: 492.8 VOLTAGE DROP: 8. %VD: 4.06$

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

LOSSES THRU TRANSF: 2.9 KW 10.2 KVAR 10.6 KVA

BRANCH DIVERSITY LOAD: 142.0 KW 68.8 KVAR

==== BUS: BUS-0391 DESIGN VOLTS: 208 BUS VOLTS: 188 %VD: 9.61 $

========== PU BUS VOLTAGE: 0.904 ANGLE: -5.9 DEGREES

LOAD FROM: BUS-TDIS-0391P TDIS-0391 TRANSF AMPS: 409.4 VOLTAGE DROP: 5. %VD: 2.55

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

LOSSES THRU TRANSF: 1.9 KW 4.6 KVAR 5.0 KVA

BRANCH DIVERSITY LOAD: 120.0 KW 58.1 KVAR

==== BUS: BUS-0411 DESIGN VOLTS: 208 BUS VOLTS: 185 %VD: 10.88 $

========== PU BUS VOLTAGE: 0.891 ANGLE: -7.1 DEGREES

LOAD FROM: BUS-TDIS-0411P TDIS-0411 TRANSF AMPS: 425.7 VOLTAGE DROP: 8. %VD: 3.82$

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

LOSSES THRU TRANSF: 2.3 KW 8.3 KVAR 8.6 KVA

BRANCH DIVERSITY LOAD: 123.0 KW 59.6 KVAR

==== BUS: BUS-0421 DESIGN VOLTS: 208 BUS VOLTS: 189 %VD: 9.24 $

========== PU BUS VOLTAGE: 0.908 ANGLE: -5.9 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-0421S CABL-HUG_208 FEEDER AMPS: 421.4 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: 190 %VD: 8.87 $

========== PU BUS VOLTAGE: 0.911 ANGLE: -5.7 DEGREES

LOAD FROM: BUS-TDIS-0441P TDIS-0441 TRANSF AMPS: 446.7 VOLTAGE DROP: 4. %VD: 1.72

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

LOSSES THRU TRANSF: 1.1 KW 4.1 KVAR 4.2 KVA

BRANCH DIVERSITY LOAD: 132.0 KW 63.9 KVAR

==== BUS: BUS-0451 DESIGN VOLTS: 480 BUS VOLTS: 440 %VD: 8.31 $

========== PU BUS VOLTAGE: 0.917 ANGLE: -5.8 DEGREES

LOAD FROM: BUS-TDIS-0451P TDIS-0451 TRANSF AMPS: 485.4 VOLTAGE DROP: 8. %VD: 1.66

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

LOSSES THRU TRANSF: 2.2 KW 10.6 KVAR 10.9 KVA

BRANCH DIVERSITY LOAD: 333.0 KW 161.3 KVAR

==== BUS: BUS-0452 DESIGN VOLTS: 480 BUS VOLTS: 435 %VD: 9.44 $

========== PU BUS VOLTAGE: 0.906 ANGLE: -6.8 DEGREES

LOAD FROM: BUS-TDIS-0451P TDIS-0452 TRANSF AMPS: 968.1 VOLTAGE DROP: 13. %VD: 2.79

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

LOSSES THRU TRANSF: 6.5 KW 36.7 KVAR 37.2 KVA

BRANCH DIVERSITY LOAD: 656.0 KW 317.7 KVAR

==== BUS: BUS-0611_MDPH DESIGN VOLTS: 480 BUS VOLTS: 440 %VD: 8.26 $

========== PU BUS VOLTAGE: 0.917 ANGLE: -5.7 DEGREES

BALANCED VOLTAGE DROP AND LOAD FLOW ANALYSIS

****

VOLTAGE EFFECT ON LOADS MODELED

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

LOAD FROM: SA-0611 TDIS-0611 TRANSF AMPS: 437.1 VOLTAGE DROP: 7. %VD: 1.49

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

LOSSES THRU TRANSF: 1.8 KW 8.6 KVAR 8.8 KVA

BRANCH DIVERSITY LOAD: 300.0 KW 145.3 KVAR

==== BUS: BUS-0612_MDPL DESIGN VOLTS: 208 BUS VOLTS: 191 %VD: 8.14 $

========== PU BUS VOLTAGE: 0.919 ANGLE: -5.6 DEGREES

LOAD FROM: SA-0611 TDIS-0612 TRANSF AMPS: 926.7 VOLTAGE DROP: 3. %VD: 1.37

PROJECTED POWER FLOW: 276.0 KW 133.7 KVAR 306.7 KVA 0.90 LAGGING

LOSSES THRU TRANSF: 1.5 KW 7.3 KVAR 7.4 KVA

BRANCH DIVERSITY LOAD: 276.0 KW 133.7 KVAR

==== BUS: BUS-0911 DESIGN VOLTS: 480 BUS VOLTS: 445 %VD: 7.37 $

========== PU BUS VOLTAGE: 0.926 ANGLE: -4.8 DEGREES

LOAD FROM: BUS-GEN-HP CBL-GEN-HP FEEDER AMPS: 80.4 VOLTAGE DROP: 2. %VD: 0.39

PROJECTED POWER FLOW: 50.5 KW 35.9 KVAR 62.0 KVA 0.82 LAGGING

LOSSES THRU FEEDER: 0.2 KW 0.1 KVAR 0.3 KVA

LOAD FROM: BUS-TDIS-0911P TDIS-0911 TRANSF AMPS: 60.8 VOLTAGE DROP: 4. %VD: 0.75

PROJECTED POWER FLOW: 36.5 KW 29.4 KVAR 46.8 KVA 0.78 LAGGING

LOSSES THRU TRANSF: 0.1 KW 0.4 KVAR 0.4 KVA

BRANCH DIVERSITY LOAD: 87.0 KW 65.3 KVAR

==== BUS: BUS-091MAIN DESIGN VOLTS: 12470 BUS VOLTS: 11644 %VD: 6.62 $

========== PU BUS VOLTAGE: 0.934 ANGLE: -4.5 DEGREES

LOAD FROM: BUS-WP&L CABL-UTIL-0100 FEEDER AMPS: 748.1 VOLTAGE DROP: 15. %VD: 0.12

PROJECTED POWER FLOW: 12889.0 KW 7841.4 KVAR 15086.9 KVA 0.85 LAGGING

LOSSES THRU FEEDER: 15.1 KW 11.9 KVAR 19.2 KVA

BALANCED VOLTAGE DROP AND LOAD FLOW ANALYSIS

****

VOLTAGE EFFECT ON LOADS MODELED

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

LOAD TO: PADS-0007 CABL-0100 FEEDER AMPS: 229.6 VOLTAGE DROP: 24. %VD: 0.19

PROJECTED POWER FLOW: 3860.5 KW 2557.8 KVAR 4631.0 KVA 0.83 LAGGING

LOSSES THRU FEEDER: 8.0 KW 4.9 KVAR 9.4 KVA

LOAD TO: PADS-0001 CABL-0200 FEEDER AMPS: 120.1 VOLTAGE DROP: 3. %VD: 0.03

PROJECTED POWER FLOW: 2077.9 KW 1243.4 KVAR 2421.6 KVA 0.86 LAGGING

LOSSES THRU FEEDER: 0.6 KW 0.4 KVAR 0.7 KVA

LOAD TO: PADS-0006 CABL-0300 FEEDER AMPS: 158.0 VOLTAGE DROP: 7. %VD: 0.06

PROJECTED POWER FLOW: 2795.3 KW 1529.2 KVAR 3186.2 KVA 0.88 LAGGING

LOSSES THRU FEEDER: 1.7 KW 1.0 KVAR 2.0 KVA

LOAD TO: PADS-0012 CABL-0400 FEEDER AMPS: 200.2 VOLTAGE DROP: 1. %VD: 0.01

PROJECTED POWER FLOW: 3409.0 KW 2163.3 KVAR 4037.4 KVA 0.84 LAGGING

LOSSES THRU FEEDER: 0.4 KW 0.2 KVAR 0.5 KVA

LOAD TO: BUS-TDIS-0911P CABL-0500 FEEDER AMPS: 40.8 VOLTAGE DROP: 0. %VD: 0.00

PROJECTED POWER FLOW: 746.3 KW 347.8 KVAR 823.3 KVA 0.91 LAGGING

LOSSES THRU FEEDER: 0.0 KW 0.0 KVAR 0.0 KVA

==== BUS: BUS-0941 DESIGN VOLTS: 480 BUS VOLTS: 435 %VD: 9.44 $

========== PU BUS VOLTAGE: 0.906 ANGLE: -6.6 DEGREES

LOAD FROM: BUS-TDIS-0941 TDIS-0941 TRANSF AMPS: 879.5 VOLTAGE DROP: 12. %VD: 2.48

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

LOSSES THRU TRANSF: 5.2 KW 29.8 KVAR 30.3 KVA

BRANCH DIVERSITY LOAD: 596.0 KW 288.7 KVAR

==== BUS: BUS-0951 DESIGN VOLTS: 208 BUS VOLTS: 185 %VD: 10.89 $

========== PU BUS VOLTAGE: 0.891 ANGLE: -7.3 DEGREES

LOAD FROM: BUS-TDIS-0951P TDIS-0951 TRANSF AMPS: 1107.5 VOLTAGE DROP: 8. %VD: 3.82$

PROJECTED POWER FLOW: 320.0 KW 155.0 KVAR 355.6 KVA 0.90 LAGGING

LOSSES THRU TRANSF: 5.5 KW 22.7 KVAR 23.4 KVA

BRANCH DIVERSITY LOAD: 320.0 KW 155.0 KVAR

BALANCED VOLTAGE DROP AND LOAD FLOW ANALYSIS

****

VOLTAGE EFFECT ON LOADS MODELED

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

==== BUS: BUS-0952 DESIGN VOLTS: 208 BUS VOLTS: 186 %VD: 10.46 $

========== PU BUS VOLTAGE: 0.895 ANGLE: -6.7 DEGREES

LOAD FROM: BUS-TDIS-0951P TDIS-0453 TRANSF AMPS: 3505.8 VOLTAGE DROP: 7. %VD: 3.25$

PROJECTED POWER FLOW: 970.0 KW 581.4 KVAR 1130.9 KVA 0.86 LAGGING

LOSSES THRU TRANSF: 10.6 KW 60.2 KVAR 61.1 KVA

BRANCH DIVERSITY LOAD: 970.0 KW 581.4 KVAR

==== BUS: BUS-GEN-HP DESIGN VOLTS: 480 BUS VOLTS: 446 %VD: 6.98 $

========== PU BUS VOLTAGE: 0.930 ANGLE: -4.8 DEGREES

*** PV TYPE GENERATOR:GEN-HP 50.76 KW 35.98 KVAR

LOAD TO: BUS-0911 CBL-GEN-HP FEEDER AMPS: 80.4 VOLTAGE DROP: 2. %VD: 0.39

PROJECTED POWER FLOW: 50.8 KW 36.0 KVAR 62.2 KVA 0.82 LAGGING

LOSSES THRU FEEDER: 0.2 KW 0.1 KVAR 0.3 KVA

==== BUS: BUS-SG-4TAP DESIGN VOLTS: 12470 BUS VOLTS: 11608 %VD: 6.91 $

========== PU BUS VOLTAGE: 0.931 ANGLE: -4.5 DEGREES

LOAD FROM: BUS-TDIS-0041P CABL-0308 FEEDER AMPS: 17.4 VOLTAGE DROP: 1. %VD: 0.01

PROJECTED POWER FLOW: -311.3 KW -157.6 KVAR 349.0 KVA 0.89 LAGGING

LOSSES THRU FEEDER: 0.0 KW 0.0 KVAR 0.0 KVA

LOAD TO: PADS-0004 CABL-0308A FEEDER AMPS: 23.3 VOLTAGE DROP: 0. %VD: 0.00

PROJECTED POWER FLOW: -417.9 KW -211.7 KVAR 468.4 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: 5.9 VOLTAGE DROP: 0. %VD: 0.00

PROJECTED POWER FLOW: -106.6 KW -54.0 KVAR 119.5 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: 189 %VD: 8.97 $

========== PU BUS VOLTAGE: 0.910 ANGLE: -5.8 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-0421 CABL-HUG_208 FEEDER AMPS: 421.4 VOLTAGE DROP: 1. %VD: 0.26

PROJECTED POWER FLOW: 124.3 KW 60.4 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: 421.4 VOLTAGE DROP: 4. %VD: 1.83

PROJECTED POWER FLOW: 124.3 KW 60.4 KVAR 138.2 KVA 0.90 LAGGING

LOSSES THRU TRANSF: 1.1 KW 4.1 KVAR 4.2 KVA

==== BUS: PADS-0001 DESIGN VOLTS: 12470 BUS VOLTS: 11641 %VD: 6.65 $

========== PU BUS VOLTAGE: 0.933 ANGLE: -4.5 DEGREES

LOAD FROM: BUS-091MAIN CABL-0200 FEEDER AMPS: 120.1 VOLTAGE DROP: 3. %VD: 0.03

PROJECTED POWER FLOW: 2077.3 KW 1243.1 KVAR 2420.8 KVA 0.86 LAGGING

LOSSES THRU FEEDER: 0.6 KW 0.4 KVAR 0.7 KVA

LOAD FROM: PADS-0002 CABL-0202 FEEDER AMPS: 105.1 VOLTAGE DROP: 21. %VD: 0.17

PROJECTED POWER FLOW: -1847.9 KW -1036.4 KVAR 2118.7 KVA 0.87 LAGGING

LOSSES THRU FEEDER: 3.3 KW 2.0 KVAR 3.8 KVA

LOAD TO: BUS-0100 CABL-0201 FEEDER AMPS: 47.0 VOLTAGE DROP: 2. %VD: 0.02

PROJECTED POWER FLOW: 786.7 KW 528.3 KVAR 947.7 KVA 0.83 LAGGING

LOSSES THRU FEEDER: 0.2 KW 0.1 KVAR 0.2 KVA

LOAD TO: PADS-0012 CABL-0207 FEEDER AMPS: 31.9 VOLTAGE DROP: 2. %VD: 0.02

PROJECTED POWER FLOW: -557.3 KW -321.6 KVAR 643.5 KVA 0.87 LAGGING

LOSSES THRU FEEDER: 0.1 KW 0.1 KVAR 0.1 KVA

==== BUS: PADS-0002 DESIGN VOLTS: 12470 BUS VOLTS: 11620 %VD: 6.82 $

========== PU BUS VOLTAGE: 0.932 ANGLE: -4.5 DEGREES

LOAD TO: PADS-0001 CABL-0202 FEEDER AMPS: 105.1 VOLTAGE DROP: 21. %VD: 0.17

PROJECTED POWER FLOW: -1844.7 KW -1034.4 KVAR 2114.9 KVA 0.87 LAGGING

LOSSES THRU FEEDER: 3.3 KW 2.0 KVAR 3.8 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: 17.5 VOLTAGE DROP: 1. %VD: 0.01

PROJECTED POWER FLOW: 312.0 KW 163.6 KVAR 352.3 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: 11.8 VOLTAGE DROP: 1. %VD: 0.01

PROJECTED POWER FLOW: 211.9 KW 106.4 KVAR 237.1 KVA 0.89 LAGGING

LOSSES THRU FEEDER: 0.0 KW 0.0 KVAR 0.0 KVA

LOAD FROM: PADS-0003 CABL-0205 FEEDER AMPS: 75.8 VOLTAGE DROP: 12. %VD: 0.09

PROJECTED POWER FLOW: -1320.8 KW -764.3 KVAR 1526.0 KVA 0.87 LAGGING

LOSSES THRU FEEDER: 1.3 KW 0.8 KVAR 1.5 KVA

==== BUS: PADS-0003 DESIGN VOLTS: 12470 BUS VOLTS: 11608 %VD: 6.91 $

========== PU BUS VOLTAGE: 0.931 ANGLE: -4.5 DEGREES

LOAD FROM: PADS-0004 CABL-0208 FEEDER AMPS: 53.6 VOLTAGE DROP: 0. %VD: 0.00

PROJECTED POWER FLOW: -922.0 KW -558.4 KVAR 1077.9 KVA 0.86 LAGGING

LOSSES THRU FEEDER: 0.0 KW 0.0 KVAR 0.0 KVA

LOAD TO: BUS-TDIS-0021 CABL-0206 FEEDER AMPS: 7.3 VOLTAGE DROP: 0. %VD: 0.00

PROJECTED POWER FLOW: 131.4 KW 67.1 KVAR 147.6 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: 14.9 VOLTAGE DROP: 0. %VD: 0.00

PROJECTED POWER FLOW: 266.1 KW 138.0 KVAR 299.7 KVA 0.89 LAGGING

LOSSES THRU FEEDER: 0.0 KW 0.0 KVAR 0.0 KVA

LOAD TO: PADS-0002 CABL-0205 FEEDER AMPS: 75.8 VOLTAGE DROP: 12. %VD: 0.09

PROJECTED POWER FLOW: -1319.5 KW -763.5 KVAR 1524.4 KVA 0.87 LAGGING

LOSSES THRU FEEDER: 1.3 KW 0.8 KVAR 1.5 KVA

==== BUS: PADS-0004 DESIGN VOLTS: 12470 BUS VOLTS: 11608 %VD: 6.91 $

========== PU BUS VOLTAGE: 0.931 ANGLE: -4.5 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-0003 CABL-0208 FEEDER AMPS: 53.6 VOLTAGE DROP: 0. %VD: 0.00

PROJECTED POWER FLOW: -921.9 KW -558.4 KVAR 1077.8 KVA 0.86 LAGGING

LOSSES THRU FEEDER: 0.0 KW 0.0 KVAR 0.0 KVA

LOAD TO: MH-0037SPL CABL-0310 FEEDER AMPS: 37.9 VOLTAGE DROP: 1. %VD: 0.01

PROJECTED POWER FLOW: -643.2 KW -408.5 KVAR 762.0 KVA 0.84 LAGGING

LOSSES THRU FEEDER: 0.1 KW 0.1 KVAR 0.1 KVA

LOAD FROM: PADS-0004A CABL-0307 FEEDER AMPS: 68.3 VOLTAGE DROP: 4. %VD: 0.04

PROJECTED POWER FLOW: -1147.3 KW -755.2 KVAR 1373.5 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: 23.3 VOLTAGE DROP: 0. %VD: 0.00

PROJECTED POWER FLOW: -417.9 KW -211.7 KVAR 468.4 KVA 0.89 LAGGING

LOSSES THRU FEEDER: 0.0 KW 0.0 KVAR 0.0 KVA

==== BUS: PADS-0004A DESIGN VOLTS: 12470 BUS VOLTS: 11603 %VD: 6.95 $

========== PU BUS VOLTAGE: 0.930 ANGLE: -4.5 DEGREES

LOAD TO: PADS-0004 CABL-0307 FEEDER AMPS: 68.3 VOLTAGE DROP: 4. %VD: 0.04

PROJECTED POWER FLOW: -1146.8 KW -755.0 KVAR 1373.0 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: 33.9 VOLTAGE DROP: 1. %VD: 0.01

PROJECTED POWER FLOW: -601.3 KW -318.5 KVAR 680.4 KVA 0.88 LAGGING

LOSSES THRU FEEDER: 0.0 KW 0.0 KVAR 0.1 KVA

LOAD FROM: BUS-TDIS-0942 CABL-0314 FEEDER AMPS: 34.8 VOLTAGE DROP: 1. %VD: 0.01

PROJECTED POWER FLOW: -545.5 KW -436.5 KVAR 698.7 KVA 0.78 LAGGING

LOSSES THRU FEEDER: 0.0 KW 0.0 KVAR 0.1 KVA

==== BUS: PADS-0005 DESIGN VOLTS: 12470 BUS VOLTS: 11614 %VD: 6.86 $

========== PU BUS VOLTAGE: 0.931 ANGLE: -4.5 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: 79.3 VOLTAGE DROP: 4. %VD: 0.03

PROJECTED POWER FLOW: -1385.6 KW -789.3 KVAR 1594.7 KVA 0.87 LAGGING

LOSSES THRU FEEDER: 0.4 KW 0.3 KVAR 0.5 KVA

LOAD TO: MH-0037SPL CABL-0306 FEEDER AMPS: 37.9 VOLTAGE DROP: 5. %VD: 0.04

PROJECTED POWER FLOW: 643.6 KW 408.7 KVAR 762.4 KVA 0.84 LAGGING

LOSSES THRU FEEDER: 0.3 KW 0.2 KVAR 0.3 KVA

LOAD FROM: PADS-0013 CABL-030X FEEDER AMPS: 41.5 VOLTAGE DROP: 1. %VD: 0.01

PROJECTED POWER FLOW: -742.1 KW -380.5 KVAR 833.9 KVA 0.89 LAGGING

LOSSES THRU FEEDER: 0.1 KW 0.0 KVAR 0.1 KVA

==== BUS: PADS-0006 DESIGN VOLTS: 12470 BUS VOLTS: 11637 %VD: 6.68 $

========== PU BUS VOLTAGE: 0.933 ANGLE: -4.5 DEGREES

LOAD TO: MH-0006SPL CABL-0309 FEEDER AMPS: 111.5 VOLTAGE DROP: 9. %VD: 0.07

PROJECTED POWER FLOW: 1968.1 KW 1086.1 KVAR 2247.9 KVA 0.88 LAGGING

LOSSES THRU FEEDER: 1.4 KW 0.9 KVAR 1.7 KVA

LOAD FROM: BUS-091MAIN CABL-0300 FEEDER AMPS: 158.0 VOLTAGE DROP: 7. %VD: 0.06

PROJECTED POWER FLOW: 2793.6 KW 1528.1 KVAR 3184.2 KVA 0.88 LAGGING

LOSSES THRU FEEDER: 1.7 KW 1.0 KVAR 2.0 KVA

LOAD FROM: BUS-TDIS-0072P CABL-0302 FEEDER AMPS: 26.2 VOLTAGE DROP: 2. %VD: 0.01

PROJECTED POWER FLOW: -468.2 KW -244.0 KVAR 527.9 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: 20.3 VOLTAGE DROP: 1. %VD: 0.01

PROJECTED POWER FLOW: -357.3 KW -198.1 KVAR 408.6 KVA 0.87 LAGGING

LOSSES THRU FEEDER: 0.0 KW 0.0 KVAR 0.0 KVA

==== BUS: PADS-0007 DESIGN VOLTS: 12470 BUS VOLTS: 11620 %VD: 6.81 $

========== PU BUS VOLTAGE: 0.932 ANGLE: -4.5 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: 229.6 VOLTAGE DROP: 24. %VD: 0.19

PROJECTED POWER FLOW: 3852.5 KW 2552.9 KVAR 4621.5 KVA 0.83 LAGGING

LOSSES THRU FEEDER: 8.0 KW 4.9 KVAR 9.4 KVA

LOAD TO: BUS-TDIS-0341P CABL-0102 FEEDER AMPS: 93.8 VOLTAGE DROP: 2. %VD: 0.02

PROJECTED POWER FLOW: 1521.4 KW 1118.7 KVAR 1888.4 KVA 0.81 LAGGING

LOSSES THRU FEEDER: 0.3 KW 0.2 KVAR 0.3 KVA

LOAD TO: BUS-TDIS-0351P CABL-0101 FEEDER AMPS: 0.0 VOLTAGE DROP: 0. %VD: 0.00

PROJECTED POWER FLOW: 0.0 KW 0.0 KVAR 0.0 KVA 0.00 LAGGING

LOSSES THRU FEEDER: 0.0 KW 0.0 KVAR 0.0 KVA

LOAD TO: PADS-0008 CABL-0103 FEEDER AMPS: 136.0 VOLTAGE DROP: 12. %VD: 0.10

PROJECTED POWER FLOW: 2331.1 KW 1434.2 KVAR 2737.0 KVA 0.85 LAGGING

LOSSES THRU FEEDER: 2.5 KW 1.5 KVAR 2.9 KVA

==== BUS: PADS-0008 DESIGN VOLTS: 12470 BUS VOLTS: 11608 %VD: 6.91 $

========== PU BUS VOLTAGE: 0.931 ANGLE: -4.5 DEGREES

LOAD FROM: PADS-0009 CABL-0106 FEEDER AMPS: 113.5 VOLTAGE DROP: 18. %VD: 0.14

PROJECTED POWER FLOW: -1961.6 KW -1164.5 KVAR 2281.2 KVA 0.86 LAGGING

LOSSES THRU FEEDER: 3.0 KW 1.8 KVAR 3.6 KVA

LOAD TO: BUS-TDIS-0331P CABL-0104 FEEDER AMPS: 16.7 VOLTAGE DROP: 1. %VD: 0.01

PROJECTED POWER FLOW: 261.8 KW 210.9 KVAR 336.2 KVA 0.78 LAGGING

LOSSES THRU FEEDER: 0.0 KW 0.0 KVAR 0.0 KVA

LOAD TO: BUS-TDIS-0361P CABL-0105 FEEDER AMPS: 6.0 VOLTAGE DROP: 0. %VD: 0.00

PROJECTED POWER FLOW: 105.2 KW 57.4 KVAR 119.8 KVA 0.88 LAGGING

LOSSES THRU FEEDER: 0.0 KW 0.0 KVAR 0.0 KVA

LOAD FROM: PADS-0007 CABL-0103 FEEDER AMPS: 136.0 VOLTAGE DROP: 12. %VD: 0.10

PROJECTED POWER FLOW: 2328.6 KW 1432.7 KVAR 2734.1 KVA 0.85 LAGGING

LOSSES THRU FEEDER: 2.5 KW 1.5 KVAR 2.9 KVA

==== BUS: PADS-0009 DESIGN VOLTS: 12470 BUS VOLTS: 11590 %VD: 7.06 $

========== PU BUS VOLTAGE: 0.929 ANGLE: -4.5 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: 113.5 VOLTAGE DROP: 18. %VD: 0.14

PROJECTED POWER FLOW: -1958.6 KW -1162.6 KVAR 2277.6 KVA 0.86 LAGGING

LOSSES THRU FEEDER: 3.0 KW 1.8 KVAR 3.6 KVA

LOAD TO: PADS-0010 CABL-0109 FEEDER AMPS: 98.4 VOLTAGE DROP: 0. %VD: 0.00

PROJECTED POWER FLOW: 1691.8 KW 1020.9 KVAR 1976.0 KVA 0.86 LAGGING

LOSSES THRU FEEDER: 0.1 KW 0.0 KVAR 0.1 KVA

LOAD FROM: BUS-TDIS-0371P CABL-0107 FEEDER AMPS: 8.2 VOLTAGE DROP: 0. %VD: 0.00

PROJECTED POWER FLOW: -144.9 KW -79.0 KVAR 165.0 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: 6.8 VOLTAGE DROP: 0. %VD: 0.00

PROJECTED POWER FLOW: -121.9 KW -62.8 KVAR 137.1 KVA 0.89 LAGGING

LOSSES THRU FEEDER: 0.0 KW 0.0 KVAR 0.0 KVA

==== BUS: PADS-0010 DESIGN VOLTS: 12470 BUS VOLTS: 11590 %VD: 7.06 $

========== PU BUS VOLTAGE: 0.929 ANGLE: -4.5 DEGREES

LOAD TO: PADS-0011 CABL-0112 FEEDER AMPS: 72.9 VOLTAGE DROP: 10. %VD: 0.08

PROJECTED POWER FLOW: 1240.9 KW 775.2 KVAR 1463.2 KVA 0.85 LAGGING

LOSSES THRU FEEDER: 1.1 KW 0.7 KVAR 1.3 KVA

LOAD FROM: PADS-0009 CABL-0109 FEEDER AMPS: 98.4 VOLTAGE DROP: 0. %VD: 0.00

PROJECTED POWER FLOW: 1691.8 KW 1020.8 KVAR 1975.9 KVA 0.86 LAGGING

LOSSES THRU FEEDER: 0.1 KW 0.0 KVAR 0.1 KVA

LOAD FROM: BUS-TDIS-0951P CABL-0111 FEEDER AMPS: 18.5 VOLTAGE DROP: 1. %VD: 0.01

PROJECTED POWER FLOW: -325.5 KW -177.7 KVAR 370.8 KVA 0.88 LAGGING

LOSSES THRU FEEDER: 0.0 KW 0.0 KVAR 0.0 KVA

LOAD FROM: BUS-TDIS-0411P CABL-0110 FEEDER AMPS: 7.1 VOLTAGE DROP: 0. %VD: 0.00

PROJECTED POWER FLOW: -125.3 KW -67.9 KVAR 142.5 KVA 0.88 LAGGING

LOSSES THRU FEEDER: 0.0 KW 0.0 KVAR 0.0 KVA

==== BUS: PADS-0011 DESIGN VOLTS: 12470 BUS VOLTS: 11580 %VD: 7.14 $

========== PU BUS VOLTAGE: 0.929 ANGLE: -4.5 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: 7.5 VOLTAGE DROP: 1. %VD: 0.00

PROJECTED POWER FLOW: 133.1 KW 68.0 KVAR 149.4 KVA 0.89 LAGGING

LOSSES THRU FEEDER: 0.0 KW 0.0 KVAR 0.0 KVA

LOAD FROM: PADS-0010 CABL-0112 FEEDER AMPS: 72.9 VOLTAGE DROP: 10. %VD: 0.08

PROJECTED POWER FLOW: 1239.9 KW 774.6 KVAR 1461.9 KVA 0.85 LAGGING

LOSSES THRU FEEDER: 1.1 KW 0.7 KVAR 1.3 KVA

LOAD TO: BUS-TDIS-0421P CABL-0113 FEEDER AMPS: 7.0 VOLTAGE DROP: 0. %VD: 0.00

PROJECTED POWER FLOW: 125.4 KW 64.5 KVAR 141.0 KVA 0.89 LAGGING

LOSSES THRU FEEDER: 0.0 KW 0.0 KVAR 0.0 KVA

LOAD FROM: BUS-TDIS-0951P CABL-0115 FEEDER AMPS: 58.5 VOLTAGE DROP: 9. %VD: 0.08

PROJECTED POWER FLOW: -981.5 KW -642.1 KVAR 1172.8 KVA 0.84 LAGGING

LOSSES THRU FEEDER: 0.8 KW 0.5 KVAR 1.0 KVA

==== BUS: PADS-0012 DESIGN VOLTS: 12470 BUS VOLTS: 11643 %VD: 6.63 $

========== PU BUS VOLTAGE: 0.934 ANGLE: -4.5 DEGREES

LOAD TO: BUS-TDIS-0141P CABL-0401 FEEDER AMPS: 80.5 VOLTAGE DROP: 2. %VD: 0.02

PROJECTED POWER FLOW: 1344.4 KW 909.4 KVAR 1623.0 KVA 0.83 LAGGING

LOSSES THRU FEEDER: 0.2 KW 0.2 KVAR 0.3 KVA

LOAD FROM: PADS-0001 CABL-0207 FEEDER AMPS: 31.9 VOLTAGE DROP: 2. %VD: 0.02

PROJECTED POWER FLOW: -557.4 KW -321.7 KVAR 643.6 KVA 0.87 LAGGING

LOSSES THRU FEEDER: 0.1 KW 0.1 KVAR 0.1 KVA

LOAD FROM: BUS-091MAIN CABL-0400 FEEDER AMPS: 200.2 VOLTAGE DROP: 1. %VD: 0.01

PROJECTED POWER FLOW: 3408.6 KW 2163.0 KVAR 4037.0 KVA 0.84 LAGGING

LOSSES THRU FEEDER: 0.4 KW 0.2 KVAR 0.5 KVA

LOAD TO: BUS-TDIS-0451P CABL-0402 FEEDER AMPS: 87.9 VOLTAGE DROP: 2. %VD: 0.02

PROJECTED POWER FLOW: 1506.8 KW 932.0 KVAR 1771.7 KVA 0.85 LAGGING

LOSSES THRU FEEDER: 0.3 KW 0.2 KVAR 0.3 KVA

==== BUS: PADS-0013 DESIGN VOLTS: 12470 BUS VOLTS: 11613 %VD: 6.87 $

========== PU BUS VOLTAGE: 0.931 ANGLE: -4.5 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: 16.8 VOLTAGE DROP: 0. %VD: 0.00

PROJECTED POWER FLOW: -301.7 KW -153.1 KVAR 338.3 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: 11.3 VOLTAGE DROP: 1. %VD: 0.01

PROJECTED POWER FLOW: -202.2 KW -103.2 KVAR 227.0 KVA 0.89 LAGGING

LOSSES THRU FEEDER: 0.0 KW 0.0 KVAR 0.0 KVA

LOAD TO: PADS-0005 CABL-030X FEEDER AMPS: 41.5 VOLTAGE DROP: 1. %VD: 0.01

PROJECTED POWER FLOW: -742.0 KW -380.5 KVAR 833.9 KVA 0.89 LAGGING

LOSSES THRU FEEDER: 0.1 KW 0.0 KVAR 0.1 KVA

LOAD FROM: BUS-TDIS-0113P CABL-0304A0 FEEDER AMPS: 13.4 VOLTAGE DROP: 0. %VD: 0.00

PROJECTED POWER FLOW: -238.1 KW -124.2 KVAR 268.5 KVA 0.89 LAGGING

LOSSES THRU FEEDER: 0.0 KW 0.0 KVAR 0.0 KVA

==== BUS: SA-0611 DESIGN VOLTS: 12470 BUS VOLTS: 11625 %VD: 6.77 $

========== PU BUS VOLTAGE: 0.932 ANGLE: -4.5 DEGREES

LOAD FROM: MH-0006SPL CABL-0316 FEEDER AMPS: 111.5 VOLTAGE DROP: 3. %VD: 0.02

PROJECTED POWER FLOW: 1966.2 KW 1084.9 KVAR 2245.7 KVA 0.88 LAGGING

LOSSES THRU FEEDER: 0.5 KW 0.3 KVAR 0.6 KVA

LOAD FROM: MH-0011SPL CABL-0303 FEEDER AMPS: 79.3 VOLTAGE DROP: 7. %VD: 0.06

PROJECTED POWER FLOW: -1386.9 KW -790.1 KVAR 1596.2 KVA 0.87 LAGGING

LOSSES THRU FEEDER: 0.9 KW 0.5 KVAR 1.0 KVA

LOAD TO: BUS-0611_MDPH TDIS-0611 TRANSF AMPS: 16.8 VOLTAGE DROP: 186. %VD: 1.49

PROJECTED POWER FLOW: 301.8 KW 153.9 KVAR 338.7 KVA 0.89 LAGGING

LOSSES THRU TRANSF: 1.8 KW 8.6 KVAR 8.8 KVA

LOAD TO: BUS-0612_MDPL TDIS-0612 TRANSF AMPS: 15.5 VOLTAGE DROP: 171. %VD: 1.37

PROJECTED POWER FLOW: 277.5 KW 141.0 KVAR 311.2 KVA 0.89 LAGGING

LOSSES THRU TRANSF: 1.5 KW 7.3 KVAR 7.4 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.	0.9111	BUS-0031	208.	0.9177
BUS-0041	480.	0.9188	BUS-0051	480.	0.9110
BUS-0071	208.	0.8908	BUS-0072	480.	0.9072
BUS-0073	480.	0.9187	BUS-0081	208.	0.9081
BUS-0100	12470.	0.9333	BUS-0101	208.	0.9047
BUS-0102	480.	0.8964	BUS-0111	480.	0.0000
BUS-0113	208.	0.9162	BUS-0114	480.	0.9175
BUS-0115	480.	0.9093	BUS-0121	480.	0.9213
BUS-0125	480.	0.8990	BUS-0129	480.	0.9038
BUS-0131	480.	0.8985	BUS-0137	480.	0.8918
BUS-0141	480.	0.8990	BUS-0142	480.	0.8999
BUS-0331	480.	0.8934	BUS-0341	208.	0.8973
BUS-0351	208.	0.9319	BUS-0361	208.	0.8890
BUS-0371	208.	0.8888	BUS-0391	208.	0.9039
BUS-0411	208.	0.8912	BUS-0421	208.	0.9076
BUS-0441	208.	0.9113	BUS-0451	480.	0.9169
BUS-0452	480.	0.9056	BUS-0611_MDPH	480.	0.9174

BUS-0612_MDPL 208. 0.9186 BUS-0910 12470. 0.9338

BUS-0911 480. 0.9263 BUS-091MAIN 12470. 0.9338

BUS-0941 480. 0.9056 BUS-0951 208. 0.8911

BUS-0952 208. 0.8954 BUS-GEN-HP 480. 0.9302

BUS-SG-4TAP 12470. 0.9309 BUS-TDIS-0021 12470. 0.9309

BUS-TDIS-0031P 12470. 0.9308 BUS-TDIS-0041P 12470. 0.9308

BUS-TDIS-0051 12470. 0.9309 BUS-TDIS-0071P 12470. 0.9331

BUS-TDIS-0072P 12470. 0.9331 BUS-TDIS-0081P 12470. 0.9318

BUS-TDIS-0101P 12470. 0.9332 BUS-TDIS-0102P 12470. 0.9332

BUS-TDIS-0111P 12470. 0.0000 BUS-TDIS-0112P 12470. 0.9312

BUS-TDIS-0113P 12470. 0.9312 BUS-TDIS-0113P 12470. 0.9312

BUS-TDIS-0121P 12470. 0.9317 BUS-TDIS-0141P 12470. 0.9335

BUS-TDIS-0331P 12470. 0.9308 BUS-TDIS-0341P 12470. 0.9317

BUS-TDIS-0351P 12470. 0.9319 BUS-TDIS-0361P 12470. 0.9308

BUS-TDIS-0371P 12470. 0.9294 BUS-TDIS-0391P 12470. 0.9294

BUS-TDIS-0411P 12470. 0.9294 BUS-TDIS-0421P 12470. 0.9286

BUS-TDIS-0421S 208. 0.9103 BUS-TDIS-0441P 12470. 0.9286

BUS-TDIS-0451P 12470. 0.9335 BUS-TDIS-0911P 12470. 0.9337

BUS-TDIS-0941 12470. 0.9304 BUS-TDIS-0942 12470. 0.9304

BUS-TDIS-0951P 12470. 0.9293 BUS-TDIS-0951P 12470. 0.9278

BUS-WP&L 12470. 0.9350 MH-0006SPL 12470. 0.9325

MH-0011SPL 12470. 0.9317 MH-0037SPL 12470. 0.9310

PADS-0001 12470. 0.9335 PADS-0002 12470. 0.9318

PADS-0003 12470. 0.9309 PADS-0004 12470. 0.9309

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.	0.9305	PADS-0005	12470.	0.9314
PADS-0006	12470.	0.9332	PADS-0007	12470.	0.9319
PADS-0008	12470.	0.9309	PADS-0009	12470.	0.9294
PADS-0010	12470.	0.9294	PADS-0011	12470.	0.9286
PADS-0012	12470.	0.9337	PADS-0013	12470.	0.9313
SA-0611	12470.	0.9323			

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	0.12	748.05	15105.98	157.72
CABL-0100	BUS-091MAIN	PADS-0007	FDR	0.19	229.62	4630.96	86.63
CABL-0200	BUS-091MAIN	PADS-0001	FDR	0.03	120.07	2421.57	45.30
CABL-0300	BUS-091MAIN	PADS-0006	FDR	0.06	157.98	3186.22	59.60
CABL-0400	BUS-091MAIN	PADS-0012	FDR	0.01	200.19	4037.42	75.53
CABL-0500	BUS-091MAIN	BUS-TDIS-0911P	FDR	0.00	40.82	823.33	15.40
TDIS-0911	BUS-TDIS-0911P	BUS-0911	TX2	0.75	2.34	47.23	16.86
CABL-0202	PADS-0002	PADS-0001	FDR	-0.17	105.08	2114.88	39.65
CABL-0201	PADS-0001	BUS-0100	FDR	0.02	47.00	947.65	17.73
TDIS-0101	BUS-TDIS-0101P	BUS-0101	TX2	2.85	22.70	457.50	81.70
CABL-0103	PADS-0007	PADS-0008	FDR	0.10	135.98	2736.98	51.31
TDIS-0102	BUS-TDIS-0102P	BUS-0102	TX2	3.68	24.30	489.91	78.94
CABL-0201A	BUS-0100	BUS-TDIS-0102P	FDR	0.01	24.30	489.93	9.17
CABL-0205	PADS-0003	PADS-0002	FDR	-0.09	75.82	1524.45	28.61
TDIS-0051	BUS-TDIS-0051	BUS-0051	TX2	1.99	14.91	299.74	64.40
CABL-DOUD	PADS-0003	BUS-TDIS-0051	FDR	0.00	14.91	299.75	5.62

TDIS-0021	BUS-TDIS-0021	BUS-0021	TX2	1.97	7.34	147.57	52.84
CABL-0206	PADS-0003	BUS-TDIS-0021	FDR	0.00	7.34	147.57	2.77
CABL-0208	PADS-0004	PADS-0003	FDR	-0.00	53.61	1077.83	20.23
CABL-0311	PADS-0005	MH-0011SPL	FDR	-0.03	79.27	1594.65	29.91
CABL-0306	PADS-0005	MH-0037SPL	FDR	0.04	37.90	762.40	14.30
TDIS-0041	BUS-TDIS-0041P	BUS-0041	TX2	1.20	17.36	348.94	28.12
CABL-0308	BUS-TDIS-0041P	BUS-SG-4TAP	FDR	-0.01	17.36	348.94	6.33
CABL-0310	PADS-0004	MH-0037SPL	FDR	-0.01	37.90	761.98	14.30
CABL-0307	PADS-0004A	PADS-0004	FDR	-0.04	68.32	1373.00	25.78
TDIS-0941	BUS-TDIS-0941	BUS-0941	TX2	2.48	33.86	680.36	73.12
CBL-GEN-HP	BUS-GEN-HP	BUS-0911	FDR	0.39	80.45	62.21	47.32
TDIS-0111	BUS-TDIS-0111P	BUS-0111	TX2	0.00	0.00	0.00	0.00
CABL-0309	PADS-0006	MH-0006SPL	FDR	0.07	111.53	2247.90	42.08
CABL-030X	PADS-0013	PADS-0005	FDR	-0.01	41.46	833.86	15.64
TDIS-0112	BUS-TDIS-0112P	BUS-0113	TX2	1.50	11.29	226.99	36.66
TDIS-0113	BUS-TDIS-0113P	BUS-0114	TX2	1.37	16.82	338.31	36.33
CABL-0303	MH-0011SPL	SA-0611	FDR	-0.06	79.27	1595.18	29.91
TDIS-0071	BUS-TDIS-0071P	BUS-0071	TX2	4.23	20.27	408.53	109.45
CABL-0302	BUS-TDIS-0072P	PADS-0006	FDR	-0.01	26.19	527.83	9.88
TDIS-0072	BUS-TDIS-0072P	BUS-0072	TX2	2.58	16.78	338.26	54.35
CABL-0301	BUS-TDIS-0071P	PADS-0006	FDR	-0.01	20.27	408.53	7.65
CABL-0106	PADS-0009	PADS-0008	FDR	-0.14	113.46	2277.64	42.81
CABL-0102	PADS-0007	BUS-TDIS-0341P	FDR	0.02	93.82	1888.37	35.40
TDIS-0341	BUS-TDIS-0341P	BUS-0341	TX2	3.44	21.96	441.88	168.18
CABL-0101	PADS-0007	BUS-TDIS-0351P	FDR	0.00	0.00	0.00	0.00

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-0351	BUS-TDIS-0351P	BUS-0351	TX2	0.00	0.00	0.00	0.00
TDIS-0331	BUS-TDIS-0331P	BUS-0331	TX2	3.74	16.72	336.14	72.23
CABL-0104	PADS-0008	BUS-TDIS-0331P	FDR	0.01	16.72	336.17	6.31
TDIS-0361	BUS-TDIS-0361P	BUS-0361	TX2	4.19	5.96	119.83	114.43
CABL-0105	PADS-0008	BUS-TDIS-0361P	FDR	0.00	5.96	119.84	2.25
CABL-0109	PADS-0009	PADS-0010	FDR	0.00	98.43	1975.95	37.14
CABL-0107	BUS-TDIS-0371P	PADS-0009	FDR	-0.00	8.22	164.99	3.10
CABL-0108	BUS-TDIS-0391P	PADS-0009	FDR	-0.00	6.83	137.09	2.58
TDIS-0391	BUS-TDIS-0391P	BUS-0391	TX2	2.55	6.83	137.09	65.56
TDIS-0081	BUS-TDIS-0081P	BUS-0081	TX2	2.37	17.51	352.29	75.62
CABL-0203	PADS-0002	BUS-TDIS-0081P	FDR	0.01	17.51	352.31	6.60
TDIS-0121	BUS-TDIS-0121P	BUS-0121	TX2	1.04	11.78	237.09	25.51
CABL-0204	PADS-0002	BUS-TDIS-0121P	FDR	0.01	11.78	237.12	4.45
CABL-0110	BUS-TDIS-0411P	PADS-0010	FDR	-0.00	7.10	142.52	2.68
CABL-0112	PADS-0010	PADS-0011	FDR	0.08	72.89	1463.20	27.50
CABL-0113	PADS-0011	BUS-TDIS-0421P	FDR	0.00	7.03	140.96	2.65

CABL-0114 PADS-0011 BUS-TDIS-0441P FDR 0.00 7.45 149.45 2.81

TDIS-0421 BUS-TDIS-0421P BUS-TDIS-0421S TX2 1.83 7.03 140.96 67.47

CABL-HUG_208 BUS-TDIS-0421S BUS-0421 FDR 0.26 421.35 138.18 60.19

TDIS-0441 BUS-TDIS-0441P BUS-0441 TX2 1.72 7.45 149.44 53.65

CABL-0312 BUS-TDIS-0941 PADS-0004A FDR -0.01 33.86 680.36 12.77

CABL-0401 PADS-0012 BUS-TDIS-0141P FDR 0.02 80.48 1623.03 30.37

CABL-0207 PADS-0001 PADS-0012 FDR -0.02 31.91 643.45 12.04

TDIS-0411 BUS-TDIS-0411P BUS-0411 TX2 3.82 7.10 142.52 102.23

CABL-0111 BUS-TDIS-0951P PADS-0010 FDR -0.01 18.47 370.81 6.97

TDIS-0951 BUS-TDIS-0951P BUS-0951 TX2 3.82 18.47 370.81 133.00

TDIS-0371 BUS-TDIS-0371P BUS-0371 TX2 4.06 8.22 164.99 118.35

CABL-0316 MH-0006SPL SA-0611 FDR 0.02 111.53 2246.22 42.08

TDIS-0611 SA-0611 BUS-0611_MDPH TX2 1.49 16.82 338.75 36.43

TDIS-0612 SA-0611 BUS-0612_MDPL TX2 1.37 15.46 311.23 33.47

CABL-0304A BUS-TDIS-0113P PADS-0013 FDR -0.00 16.82 338.31 6.35

CABL-0304 BUS-TDIS-0112P PADS-0013 FDR -0.01 11.29 226.99 4.26

CABL-0201B BUS-0100 BUS-TDIS-0101P FDR 0.00 22.70 457.53 8.56

TDIS-0141 BUS-TDIS-0141P BUS-0141 TX2 3.45 40.78 822.17 88.07

CABL-0600 BUS-TDIS-0911P BUS-0910 FDR -0.00 12.97 261.57 4.89

CABL-0402 PADS-0012 BUS-TDIS-0451P FDR 0.02 87.86 1771.75 33.15

TDIS-0451 BUS-TDIS-0451P BUS-0451 TX2 1.66 18.68 376.69 53.80

TDIS-0031 BUS-TDIS-0031P BUS-0031 TX2 1.31 5.94 119.46 42.78

CABL-0308A BUS-SG-4TAP PADS-0004 FDR -0.00 23.30 468.43 8.49

CABL-0313 BUS-TDIS-0031P BUS-SG-4TAP FDR -0.00 5.94 119.46 2.17

TDIS-0942 BUS-TDIS-0942 BUS-0125 TX2 3.14 34.76 698.60 75.08

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-0314	BUS-TDIS-0942	PADS-0004A	FDR	-0.01	34.76	698.60	13.12
TDIS-0073	BUS-TDIS-0072P	BUS-0073	TX2	1.43	9.41	189.58	30.46
TDIS-0142	BUS-TDIS-0141P	BUS-0142	TX2	3.36	39.71	800.58	85.76
TDIS-0452	BUS-TDIS-0451P	BUS-0452	TX2	2.79	37.26	751.31	80.49
TDIS-0912	BUS-TDIS-0451P	BUS-0129	TX2	2.97	32.27	650.67	69.70
CABL-0115	BUS-TDIS-0951P	PADS-0011	FDR	-0.08	58.48	1171.87	22.06
TDIS-0114	BUS-TDIS-0113P	BUS-0115	TX2	2.19	13.35	268.54	28.84
CABL-0304A0	BUS-TDIS-0113P	PADS-0013	FDR	-0.00	13.35	268.54	5.04
TDIS-0453	BUS-TDIS-0951P	BUS-0952	TX2	3.25	58.48	1171.87	84.20
TDIS-0915	BUS-TDIS-0341P	BUS-0131	TX2	3.32	72.14	1451.74	77.91
TDIS-0914	BUS-TDIS-0911P	BUS-0137	TX2	4.20	45.43	916.19	98.12

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

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

TOTAL SYSTEM LOSSES

180. KW 714. KVAR