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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 -0.10971688 PU

LARGEST BUS VOLTAGE MISMATCH BUS-0071 -0.00191158 PU

LARGEST BUS VOLTAGE MISMATCH BUS-0071 -0.00000071 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	11010.83	6484.55	5.30	0.07654 +j 0.61231
GEN-HP	1.000	0.00	44.28	31.08	5.93	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: 192 %VD: 7.63 $

========== PU BUS VOLTAGE: 0.924 ANGLE: -5.0 DEGREES

LOAD FROM: BUS-TDIS-0021 TDIS-0021 TRANSF AMPS: 434.1 VOLTAGE DROP: 4. %VD: 1.94

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

LOSSES THRU TRANSF: 1.4 KW 4.0 KVAR 4.3 KVA

BRANCH DIVERSITY LOAD: 130.0 KW 63.0 KVAR

==== BUS: BUS-0031 DESIGN VOLTS: 208 BUS VOLTS: 193 %VD: 6.98 $

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

LOAD FROM: BUS-TDIS-0031P TDIS-0031 TRANSF AMPS: 351.5 VOLTAGE DROP: 3. %VD: 1.30

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

LOSSES THRU TRANSF: 0.5 KW 2.6 KVAR 2.7 KVA

BRANCH DIVERSITY LOAD: 106.0 KW 51.3 KVAR

==== BUS: BUS-0041 DESIGN VOLTS: 480 BUS VOLTS: 447 %VD: 6.88 $

========== PU BUS VOLTAGE: 0.931 ANGLE: -4.8 DEGREES

LOAD FROM: BUS-TDIS-0041P TDIS-0041 TRANSF AMPS: 444.9 VOLTAGE DROP: 6. %VD: 1.18

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

LOSSES THRU TRANSF: 1.3 KW 7.3 KVAR 7.4 KVA

BRANCH DIVERSITY LOAD: 310.0 KW 150.1 KVAR

==== BUS: BUS-0051 DESIGN VOLTS: 480 BUS VOLTS: 443 %VD: 7.65 $

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

LOAD FROM: BUS-TDIS-0051 TDIS-0051 TRANSF AMPS: 382.0 VOLTAGE DROP: 9. %VD: 1.96

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

LOSSES THRU TRANSF: 2.0 KW 9.9 KVAR 10.1 KVA

BRANCH DIVERSITY LOAD: 264.0 KW 127.9 KVAR

==== BUS: BUS-0071 DESIGN VOLTS: 208 BUS VOLTS: 188 %VD: 9.63 $

========== PU BUS VOLTAGE: 0.904 ANGLE: -6.9 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-0071P TDIS-0071 TRANSF AMPS: 1197.9 VOLTAGE DROP: 9. %VD: 4.17$

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

LOSSES THRU TRANSF: 6.1 KW 27.3 KVAR 27.9 KVA

BRANCH DIVERSITY LOAD: 351.0 KW 170.0 KVAR

==== BUS: BUS-0072 DESIGN VOLTS: 480 BUS VOLTS: 442 %VD: 8.02 $

========== PU BUS VOLTAGE: 0.920 ANGLE: -5.7 DEGREES

LOAD FROM: BUS-TDIS-0072P TDIS-0072 TRANSF AMPS: 430.1 VOLTAGE DROP: 12. %VD: 2.55

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

LOSSES THRU TRANSF: 3.0 KW 14.2 KVAR 14.5 KVA

BRANCH DIVERSITY LOAD: 296.0 KW 143.4 KVAR

==== BUS: BUS-0073 DESIGN VOLTS: 480 BUS VOLTS: 447 %VD: 6.88 $

========== PU BUS VOLTAGE: 0.931 ANGLE: -4.9 DEGREES

LOAD FROM: BUS-TDIS-0072P TDIS-0073 TRANSF AMPS: 241.1 VOLTAGE DROP: 7. %VD: 1.42

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

LOSSES THRU TRANSF: 1.0 KW 4.5 KVAR 4.6 KVA

BRANCH DIVERSITY LOAD: 168.0 KW 81.4 KVAR

==== BUS: BUS-0081 DESIGN VOLTS: 208 BUS VOLTS: 191 %VD: 7.93 $

========== PU BUS VOLTAGE: 0.921 ANGLE: -5.6 DEGREES

LOAD FROM: BUS-TDIS-0081P TDIS-0081 TRANSF AMPS: 1035.1 VOLTAGE DROP: 5. %VD: 2.33

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

LOSSES THRU TRANSF: 2.9 KW 13.6 KVAR 13.9 KVA

BRANCH DIVERSITY LOAD: 309.0 KW 149.7 KVAR

==== BUS: BUS-0100 DESIGN VOLTS: 12470 BUS VOLTS: 11791 %VD: 5.45 $

========== PU BUS VOLTAGE: 0.946 ANGLE: -3.8 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: 46.3 VOLTAGE DROP: 2. %VD: 0.02

PROJECTED POWER FLOW: 786.3 KW 526.9 KVAR 946.5 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: 24.0 VOLTAGE DROP: 1. %VD: 0.00

PROJECTED POWER FLOW: 405.4 KW 274.2 KVAR 489.4 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: 22.4 VOLTAGE DROP: 1. %VD: 0.00

PROJECTED POWER FLOW: 380.9 KW 252.7 KVAR 457.1 KVA 0.83 LAGGING

LOSSES THRU FEEDER: 0.0 KW 0.0 KVAR 0.0 KVA

==== BUS: BUS-0101 DESIGN VOLTS: 208 BUS VOLTS: 191 %VD: 8.26 $

========== PU BUS VOLTAGE: 0.917 ANGLE: -5.6 DEGREES

LOAD FROM: BUS-TDIS-0101P TDIS-0101 TRANSF AMPS: 1342.0 VOLTAGE DROP: 6. %VD: 2.81

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

LOSSES THRU TRANSF: 3.9 KW 19.1 KVAR 19.5 KVA

BRANCH DIVERSITY LOAD: 377.0 KW 233.6 KVAR

==== BUS: BUS-0102 DESIGN VOLTS: 480 BUS VOLTS: 436 %VD: 9.08 $

========== PU BUS VOLTAGE: 0.909 ANGLE: -6.1 DEGREES

LOAD FROM: BUS-TDIS-0102P TDIS-0102 TRANSF AMPS: 622.5 VOLTAGE DROP: 17. %VD: 3.63$

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

LOSSES THRU TRANSF: 5.4 KW 26.2 KVAR 26.8 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: 193 %VD: 7.13 $

========== PU BUS VOLTAGE: 0.929 ANGLE: -5.0 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-0112P TDIS-0112 TRANSF AMPS: 667.5 VOLTAGE DROP: 3. %VD: 1.48

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

LOSSES THRU TRANSF: 1.2 KW 5.7 KVAR 5.8 KVA

BRANCH DIVERSITY LOAD: 201.0 KW 97.3 KVAR

==== BUS: BUS-0114 DESIGN VOLTS: 480 BUS VOLTS: 446 %VD: 7.00 $

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

LOAD FROM: BUS-TDIS-0113P TDIS-0113 TRANSF AMPS: 431.1 VOLTAGE DROP: 6. %VD: 1.35

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

LOSSES THRU TRANSF: 1.6 KW 7.6 KVAR 7.8 KVA

BRANCH DIVERSITY LOAD: 300.0 KW 145.3 KVAR

==== BUS: BUS-0115 DESIGN VOLTS: 480 BUS VOLTS: 443 %VD: 7.81 $

========== PU BUS VOLTAGE: 0.922 ANGLE: -5.5 DEGREES

LOAD FROM: BUS-TDIS-0113P TDIS-0114 TRANSF AMPS: 342.1 VOLTAGE DROP: 10. %VD: 2.16

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

LOSSES THRU TRANSF: 2.0 KW 9.6 KVAR 9.8 KVA

BRANCH DIVERSITY LOAD: 236.0 KW 114.3 KVAR

==== BUS: BUS-0121 DESIGN VOLTS: 480 BUS VOLTS: 448 %VD: 6.63 $

========== PU BUS VOLTAGE: 0.934 ANGLE: -4.6 DEGREES

LOAD FROM: BUS-TDIS-0121P TDIS-0121 TRANSF AMPS: 302.0 VOLTAGE DROP: 5. %VD: 1.03

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

LOSSES THRU TRANSF: 0.8 KW 4.1 KVAR 4.2 KVA

BRANCH DIVERSITY LOAD: 211.0 KW 102.2 KVAR

==== BUS: BUS-0125 DESIGN VOLTS: 480 BUS VOLTS: 438 %VD: 8.83 $

========== PU BUS VOLTAGE: 0.912 ANGLE: -5.5 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-TDIS-0942 TDIS-0942 TRANSF AMPS: 890.5 VOLTAGE DROP: 15. %VD: 3.10$

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

LOSSES THRU TRANSF: 5.4 KW 30.6 KVAR 31.0 KVA

BRANCH DIVERSITY LOAD: 540.0 KW 405.0 KVAR

==== BUS: BUS-0141 DESIGN VOLTS: 480 BUS VOLTS: 438 %VD: 8.83 $

========== PU BUS VOLTAGE: 0.912 ANGLE: -6.0 DEGREES

LOAD FROM: BUS-TDIS-0141P TDIS-0141 TRANSF AMPS: 1044.6 VOLTAGE DROP: 16. %VD: 3.40$

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

LOSSES THRU TRANSF: 7.5 KW 42.7 KVAR 43.4 KVA

BRANCH DIVERSITY LOAD: 673.0 KW 417.1 KVAR

==== BUS: BUS-0142 DESIGN VOLTS: 480 BUS VOLTS: 438 %VD: 8.74 $

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

LOAD FROM: BUS-TDIS-0141P TDIS-0142 TRANSF AMPS: 1017.2 VOLTAGE DROP: 16. %VD: 3.31$

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

LOSSES THRU TRANSF: 7.2 KW 40.5 KVAR 41.1 KVA

BRANCH DIVERSITY LOAD: 656.0 KW 406.6 KVAR

==== BUS: BUS-0331 DESIGN VOLTS: 480 BUS VOLTS: 444 %VD: 7.57 $

========== PU BUS VOLTAGE: 0.924 ANGLE: -4.8 DEGREES

LOAD FROM: BUS-TDIS-0331P TDIS-0331 TRANSF AMPS: 232.8 VOLTAGE DROP: 10. %VD: 1.99

PROJECTED POWER FLOW: 143.1 KW 107.3 KVAR 178.9 KVA 0.80 LAGGING

LOSSES THRU TRANSF: 1.1 KW 5.0 KVAR 5.1 KVA

BRANCH DIVERSITY LOAD: 143.1 KW 107.3 KVAR

==== BUS: BUS-0341 DESIGN VOLTS: 208 BUS VOLTS: 197 %VD: 5.49 $

========== PU BUS VOLTAGE: 0.945 ANGLE: -3.8 DEGREES

**** NO LOAD SPECIFIED ****

==== BUS: BUS-0351 DESIGN VOLTS: 208 BUS VOLTS: 197 %VD: 5.49 $

========== PU BUS VOLTAGE: 0.945 ANGLE: -3.8 DEGREES

**** NO LOAD SPECIFIED ****

BALANCED VOLTAGE DROP AND LOAD FLOW ANALYSIS

****

VOLTAGE EFFECT ON LOADS MODELED

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

==== BUS: BUS-0371 DESIGN VOLTS: 208 BUS VOLTS: 188 %VD: 9.70 $

========== PU BUS VOLTAGE: 0.903 ANGLE: -6.5 DEGREES

LOAD FROM: BUS-TDIS-0371P TDIS-0371 TRANSF AMPS: 485.0 VOLTAGE DROP: 8. %VD: 4.00$

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

LOSSES THRU TRANSF: 2.8 KW 9.9 KVAR 10.3 KVA

BRANCH DIVERSITY LOAD: 142.0 KW 68.8 KVAR

==== BUS: BUS-0391 DESIGN VOLTS: 208 BUS VOLTS: 191 %VD: 8.21 $

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

LOAD FROM: BUS-TDIS-0391P TDIS-0391 TRANSF AMPS: 403.2 VOLTAGE DROP: 5. %VD: 2.51

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

LOSSES THRU TRANSF: 1.8 KW 4.5 KVAR 4.9 KVA

BRANCH DIVERSITY LOAD: 120.0 KW 58.1 KVAR

==== BUS: BUS-0411 DESIGN VOLTS: 208 BUS VOLTS: 188 %VD: 9.46 $

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

LOAD FROM: BUS-TDIS-0411P TDIS-0411 TRANSF AMPS: 419.0 VOLTAGE DROP: 8. %VD: 3.75$

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

LOSSES THRU TRANSF: 2.2 KW 8.0 KVAR 8.4 KVA

BRANCH DIVERSITY LOAD: 123.0 KW 59.6 KVAR

==== BUS: BUS-0421 DESIGN VOLTS: 208 BUS VOLTS: 192 %VD: 7.83 $

========== PU BUS VOLTAGE: 0.922 ANGLE: -5.1 DEGREES

LOAD FROM: BUS-TDIS-0421S CABL-HUG_208 FEEDER AMPS: 414.9 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: 192 %VD: 7.47 $

========== PU BUS VOLTAGE: 0.925 ANGLE: -5.0 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-0441P TDIS-0441 TRANSF AMPS: 440.0 VOLTAGE DROP: 4. %VD: 1.70

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

LOSSES THRU TRANSF: 1.0 KW 4.0 KVAR 4.1 KVA

BRANCH DIVERSITY LOAD: 132.0 KW 63.9 KVAR

==== BUS: BUS-0451 DESIGN VOLTS: 480 BUS VOLTS: 446 %VD: 7.06 $

========== PU BUS VOLTAGE: 0.929 ANGLE: -5.1 DEGREES

LOAD FROM: BUS-TDIS-0451P TDIS-0451 TRANSF AMPS: 478.9 VOLTAGE DROP: 8. %VD: 1.63

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

LOSSES THRU TRANSF: 2.1 KW 10.4 KVAR 10.6 KVA

BRANCH DIVERSITY LOAD: 333.0 KW 161.3 KVAR

==== BUS: BUS-0452 DESIGN VOLTS: 480 BUS VOLTS: 441 %VD: 8.17 $

========== PU BUS VOLTAGE: 0.918 ANGLE: -6.0 DEGREES

LOAD FROM: BUS-TDIS-0451P TDIS-0452 TRANSF AMPS: 954.8 VOLTAGE DROP: 13. %VD: 2.75

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

LOSSES THRU TRANSF: 6.3 KW 35.7 KVAR 36.2 KVA

BRANCH DIVERSITY LOAD: 656.0 KW 317.7 KVAR

==== BUS: BUS-0611_MDPH DESIGN VOLTS: 480 BUS VOLTS: 446 %VD: 7.02 $

========== PU BUS VOLTAGE: 0.930 ANGLE: -4.9 DEGREES

LOAD FROM: SA-0611 TDIS-0611 TRANSF AMPS: 431.2 VOLTAGE DROP: 7. %VD: 1.47

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

LOSSES THRU TRANSF: 1.7 KW 8.4 KVAR 8.6 KVA

BRANCH DIVERSITY LOAD: 300.0 KW 145.3 KVAR

==== BUS: BUS-0612_MDPL DESIGN VOLTS: 208 BUS VOLTS: 194 %VD: 6.90 $

========== PU BUS VOLTAGE: 0.931 ANGLE: -4.9 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: SA-0611 TDIS-0612 TRANSF AMPS: 914.3 VOLTAGE DROP: 3. %VD: 1.35

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

LOSSES THRU TRANSF: 1.4 KW 7.1 KVAR 7.2 KVA

BRANCH DIVERSITY LOAD: 276.0 KW 133.7 KVAR

==== BUS: BUS-0911 DESIGN VOLTS: 480 BUS VOLTS: 450 %VD: 6.27 $

========== PU BUS VOLTAGE: 0.937 ANGLE: -4.1 DEGREES

LOAD FROM: BUS-GEN-HP CBL-GEN-HP FEEDER AMPS: 69.2 VOLTAGE DROP: 2. %VD: 0.34

PROJECTED POWER FLOW: 44.1 KW 31.0 KVAR 53.9 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: 70.4 VOLTAGE DROP: 4. %VD: 0.87

PROJECTED POWER FLOW: 42.9 KW 34.2 KVAR 54.9 KVA 0.78 LAGGING

LOSSES THRU TRANSF: 0.2 KW 0.6 KVAR 0.6 KVA

BRANCH DIVERSITY LOAD: 87.0 KW 65.3 KVAR

==== BUS: BUS-091MAIN DESIGN VOLTS: 12470 BUS VOLTS: 11797 %VD: 5.40 $

========== PU BUS VOLTAGE: 0.946 ANGLE: -3.8 DEGREES

LOAD FROM: BUS-WP&L CABL-UTIL-0100 FEEDER AMPS: 624.7 VOLTAGE DROP: 12. %VD: 0.10

PROJECTED POWER FLOW: 11000.3 KW 6476.2 KVAR 12765.1 KVA 0.86 LAGGING

LOSSES THRU FEEDER: 10.5 KW 8.3 KVAR 13.4 KVA

LOAD TO: PADS-0007 CABL-0100 FEEDER AMPS: 113.0 VOLTAGE DROP: 12. %VD: 0.09

PROJECTED POWER FLOW: 1968.1 KW 1207.2 KVAR 2308.8 KVA 0.85 LAGGING

LOSSES THRU FEEDER: 1.9 KW 1.2 KVAR 2.3 KVA

LOAD TO: PADS-0001 CABL-0200 FEEDER AMPS: 118.4 VOLTAGE DROP: 3. %VD: 0.03

PROJECTED POWER FLOW: 2077.3 KW 1240.7 KVAR 2419.6 KVA 0.86 LAGGING

LOSSES THRU FEEDER: 0.6 KW 0.4 KVAR 0.7 KVA

LOAD TO: PADS-0006 CABL-0300 FEEDER AMPS: 155.8 VOLTAGE DROP: 7. %VD: 0.06

PROJECTED POWER FLOW: 2794.5 KW 1525.8 KVAR 3183.9 KVA 0.88 LAGGING

LOSSES THRU FEEDER: 1.7 KW 1.0 KVAR 1.9 KVA

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-0012 CABL-0400 FEEDER AMPS: 197.4 VOLTAGE DROP: 1. %VD: 0.01

PROJECTED POWER FLOW: 3408.0 KW 2158.2 KVAR 4033.9 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: 40.5 VOLTAGE DROP: 0. %VD: 0.00

PROJECTED POWER FLOW: 752.5 KW 344.3 KVAR 827.5 KVA 0.91 LAGGING

LOSSES THRU FEEDER: 0.0 KW 0.0 KVAR 0.0 KVA

==== BUS: BUS-0941 DESIGN VOLTS: 480 BUS VOLTS: 441 %VD: 8.17 $

========== PU BUS VOLTAGE: 0.918 ANGLE: -5.8 DEGREES

LOAD FROM: BUS-TDIS-0941 TDIS-0941 TRANSF AMPS: 867.4 VOLTAGE DROP: 12. %VD: 2.44

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

LOSSES THRU TRANSF: 5.1 KW 29.0 KVAR 29.4 KVA

BRANCH DIVERSITY LOAD: 596.0 KW 288.7 KVAR

==== BUS: BUS-0951 DESIGN VOLTS: 208 BUS VOLTS: 188 %VD: 9.47 $

========== PU BUS VOLTAGE: 0.905 ANGLE: -6.5 DEGREES

LOAD FROM: BUS-TDIS-0951P TDIS-0951 TRANSF AMPS: 1090.2 VOLTAGE DROP: 8. %VD: 3.76$

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

LOSSES THRU TRANSF: 5.3 KW 22.0 KVAR 22.6 KVA

BRANCH DIVERSITY LOAD: 320.0 KW 155.0 KVAR

==== BUS: BUS-0952 DESIGN VOLTS: 208 BUS VOLTS: 188 %VD: 9.62 $

========== PU BUS VOLTAGE: 0.904 ANGLE: -6.2 DEGREES

LOAD FROM: BUS-TDIS-0951P TDIS-0453 TRANSF AMPS: 2648.2 VOLTAGE DROP: 8. %VD: 3.80$

PROJECTED POWER FLOW: 727.0 KW 463.7 KVAR 862.3 KVA 0.84 LAGGING

LOSSES THRU TRANSF: 9.1 KW 51.5 KVAR 52.3 KVA

BRANCH DIVERSITY LOAD: 727.0 KW 463.7 KVAR

==== BUS: BUS-GEN-HP DESIGN VOLTS: 480 BUS VOLTS: 452 %VD: 5.93 $

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

*** PV TYPE GENERATOR:GEN-HP 44.28 KW 31.08 KVAR

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-0911 CBL-GEN-HP FEEDER AMPS: 69.2 VOLTAGE DROP: 2. %VD: 0.34

PROJECTED POWER FLOW: 44.3 KW 31.1 KVAR 54.1 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: 11761 %VD: 5.69 $

========== PU BUS VOLTAGE: 0.943 ANGLE: -3.8 DEGREES

LOAD FROM: BUS-TDIS-0041P CABL-0308 FEEDER AMPS: 17.1 VOLTAGE DROP: 1. %VD: 0.01

PROJECTED POWER FLOW: -311.3 KW -157.4 KVAR 348.8 KVA 0.89 LAGGING

LOSSES THRU FEEDER: 0.0 KW 0.0 KVAR 0.0 KVA

LOAD TO: PADS-0004 CABL-0308A FEEDER AMPS: 23.0 VOLTAGE DROP: 0. %VD: 0.00

PROJECTED POWER FLOW: -417.8 KW -211.4 KVAR 468.3 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: -106.5 KW -54.0 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: 192 %VD: 7.57 $

========== PU BUS VOLTAGE: 0.924 ANGLE: -5.1 DEGREES

LOAD TO: BUS-0421 CABL-HUG_208 FEEDER AMPS: 414.9 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: 414.9 VOLTAGE DROP: 4. %VD: 1.80

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

LOSSES THRU TRANSF: 1.0 KW 4.0 KVAR 4.1 KVA

==== BUS: PADS-0001 DESIGN VOLTS: 12470 BUS VOLTS: 11793 %VD: 5.43 $

========== PU BUS VOLTAGE: 0.946 ANGLE: -3.8 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 FROM: BUS-091MAIN CABL-0200 FEEDER AMPS: 118.4 VOLTAGE DROP: 3. %VD: 0.03

PROJECTED POWER FLOW: 2076.7 KW 1240.4 KVAR 2418.9 KVA 0.86 LAGGING

LOSSES THRU FEEDER: 0.6 KW 0.4 KVAR 0.7 KVA

LOAD FROM: PADS-0002 CABL-0202 FEEDER AMPS: 103.7 VOLTAGE DROP: 21. %VD: 0.17

PROJECTED POWER FLOW: -1847.4 KW -1034.3 KVAR 2117.2 KVA 0.87 LAGGING

LOSSES THRU FEEDER: 3.2 KW 1.9 KVAR 3.7 KVA

LOAD TO: BUS-0100 CABL-0201 FEEDER AMPS: 46.3 VOLTAGE DROP: 2. %VD: 0.02

PROJECTED POWER FLOW: 786.5 KW 527.0 KVAR 946.7 KVA 0.83 LAGGING

LOSSES THRU FEEDER: 0.2 KW 0.1 KVAR 0.2 KVA

LOAD TO: PADS-0012 CABL-0207 FEEDER AMPS: 31.5 VOLTAGE DROP: 2. %VD: 0.02

PROJECTED POWER FLOW: -557.1 KW -320.9 KVAR 643.0 KVA 0.87 LAGGING

LOSSES THRU FEEDER: 0.1 KW 0.1 KVAR 0.1 KVA

==== BUS: PADS-0002 DESIGN VOLTS: 12470 BUS VOLTS: 11773 %VD: 5.59 $

========== PU BUS VOLTAGE: 0.944 ANGLE: -3.8 DEGREES

LOAD TO: PADS-0001 CABL-0202 FEEDER AMPS: 103.7 VOLTAGE DROP: 21. %VD: 0.17

PROJECTED POWER FLOW: -1844.2 KW -1032.4 KVAR 2113.5 KVA 0.87 LAGGING

LOSSES THRU FEEDER: 3.2 KW 1.9 KVAR 3.7 KVA

LOAD TO: BUS-TDIS-0081P CABL-0203 FEEDER AMPS: 17.3 VOLTAGE DROP: 1. %VD: 0.01

PROJECTED POWER FLOW: 311.9 KW 163.3 KVAR 352.1 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: 11.6 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: 74.8 VOLTAGE DROP: 11. %VD: 0.09

PROJECTED POWER FLOW: -1320.4 KW -762.8 KVAR 1524.9 KVA 0.87 LAGGING

LOSSES THRU FEEDER: 1.3 KW 0.8 KVAR 1.5 KVA

==== BUS: PADS-0003 DESIGN VOLTS: 12470 BUS VOLTS: 11761 %VD: 5.68 $

========== PU BUS VOLTAGE: 0.943 ANGLE: -3.8 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 FROM: PADS-0004 CABL-0208 FEEDER AMPS: 52.9 VOLTAGE DROP: 0. %VD: 0.00

PROJECTED POWER FLOW: -921.8 KW -557.3 KVAR 1077.1 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: 7.2 VOLTAGE DROP: 0. %VD: 0.00

PROJECTED POWER FLOW: 131.4 KW 67.0 KVAR 147.5 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: 14.7 VOLTAGE DROP: 0. %VD: 0.00

PROJECTED POWER FLOW: 266.0 KW 137.7 KVAR 299.6 KVA 0.89 LAGGING

LOSSES THRU FEEDER: 0.0 KW 0.0 KVAR 0.0 KVA

LOAD TO: PADS-0002 CABL-0205 FEEDER AMPS: 74.8 VOLTAGE DROP: 11. %VD: 0.09

PROJECTED POWER FLOW: -1319.2 KW -762.0 KVAR 1523.5 KVA 0.87 LAGGING

LOSSES THRU FEEDER: 1.3 KW 0.8 KVAR 1.5 KVA

==== BUS: PADS-0004 DESIGN VOLTS: 12470 BUS VOLTS: 11761 %VD: 5.69 $

========== PU BUS VOLTAGE: 0.943 ANGLE: -3.8 DEGREES

LOAD TO: PADS-0003 CABL-0208 FEEDER AMPS: 52.9 VOLTAGE DROP: 0. %VD: 0.00

PROJECTED POWER FLOW: -921.7 KW -557.3 KVAR 1077.1 KVA 0.86 LAGGING

LOSSES THRU FEEDER: 0.0 KW 0.0 KVAR 0.0 KVA

LOAD TO: MH-0037SPL CABL-0310 FEEDER AMPS: 37.4 VOLTAGE DROP: 1. %VD: 0.01

PROJECTED POWER FLOW: -643.0 KW -407.7 KVAR 761.4 KVA 0.84 LAGGING

LOSSES THRU FEEDER: 0.1 KW 0.0 KVAR 0.1 KVA

LOAD FROM: PADS-0004A CABL-0307 FEEDER AMPS: 67.4 VOLTAGE DROP: 4. %VD: 0.04

PROJECTED POWER FLOW: -1147.0 KW -753.5 KVAR 1372.3 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: 23.0 VOLTAGE DROP: 0. %VD: 0.00

PROJECTED POWER FLOW: -417.8 KW -211.4 KVAR 468.3 KVA 0.89 LAGGING

LOSSES THRU FEEDER: 0.0 KW 0.0 KVAR 0.0 KVA

==== BUS: PADS-0004A DESIGN VOLTS: 12470 BUS VOLTS: 11757 %VD: 5.72 $

========== PU BUS VOLTAGE: 0.943 ANGLE: -3.8 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: PADS-0004 CABL-0307 FEEDER AMPS: 67.4 VOLTAGE DROP: 4. %VD: 0.04

PROJECTED POWER FLOW: -1146.5 KW -753.3 KVAR 1371.8 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: 33.4 VOLTAGE DROP: 1. %VD: 0.01

PROJECTED POWER FLOW: -601.1 KW -317.7 KVAR 679.9 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: 34.3 VOLTAGE DROP: 1. %VD: 0.01

PROJECTED POWER FLOW: -545.4 KW -435.6 KVAR 698.0 KVA 0.78 LAGGING

LOSSES THRU FEEDER: 0.0 KW 0.0 KVAR 0.1 KVA

==== BUS: PADS-0005 DESIGN VOLTS: 12470 BUS VOLTS: 11767 %VD: 5.64 $

========== PU BUS VOLTAGE: 0.944 ANGLE: -3.8 DEGREES

LOAD TO: MH-0011SPL CABL-0311 FEEDER AMPS: 78.2 VOLTAGE DROP: 4. %VD: 0.03

PROJECTED POWER FLOW: -1385.3 KW -787.8 KVAR 1593.6 KVA 0.87 LAGGING

LOSSES THRU FEEDER: 0.4 KW 0.3 KVAR 0.5 KVA

LOAD TO: MH-0037SPL CABL-0306 FEEDER AMPS: 37.4 VOLTAGE DROP: 5. %VD: 0.04

PROJECTED POWER FLOW: 643.4 KW 407.9 KVAR 761.8 KVA 0.84 LAGGING

LOSSES THRU FEEDER: 0.3 KW 0.2 KVAR 0.3 KVA

LOAD FROM: PADS-0013 CABL-030X FEEDER AMPS: 40.9 VOLTAGE DROP: 1. %VD: 0.01

PROJECTED POWER FLOW: -741.9 KW -379.9 KVAR 833.5 KVA 0.89 LAGGING

LOSSES THRU FEEDER: 0.1 KW 0.0 KVAR 0.1 KVA

==== BUS: PADS-0006 DESIGN VOLTS: 12470 BUS VOLTS: 11790 %VD: 5.46 $

========== PU BUS VOLTAGE: 0.945 ANGLE: -3.8 DEGREES

LOAD TO: MH-0006SPL CABL-0309 FEEDER AMPS: 110.0 VOLTAGE DROP: 9. %VD: 0.07

PROJECTED POWER FLOW: 1967.6 KW 1084.1 KVAR 2246.5 KVA 0.88 LAGGING

LOSSES THRU FEEDER: 1.4 KW 0.8 KVAR 1.6 KVA

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-0300 FEEDER AMPS: 155.8 VOLTAGE DROP: 7. %VD: 0.06

PROJECTED POWER FLOW: 2792.8 KW 1524.8 KVAR 3182.0 KVA 0.88 LAGGING

LOSSES THRU FEEDER: 1.7 KW 1.0 KVAR 1.9 KVA

LOAD FROM: BUS-TDIS-0072P CABL-0302 FEEDER AMPS: 25.8 VOLTAGE DROP: 2. %VD: 0.01

PROJECTED POWER FLOW: -468.0 KW -243.4 KVAR 527.6 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: 20.0 VOLTAGE DROP: 1. %VD: 0.01

PROJECTED POWER FLOW: -357.2 KW -197.3 KVAR 408.0 KVA 0.88 LAGGING

LOSSES THRU FEEDER: 0.0 KW 0.0 KVAR 0.0 KVA

==== BUS: PADS-0007 DESIGN VOLTS: 12470 BUS VOLTS: 11785 %VD: 5.49 $

========== PU BUS VOLTAGE: 0.945 ANGLE: -3.8 DEGREES

LOAD FROM: BUS-091MAIN CABL-0100 FEEDER AMPS: 113.0 VOLTAGE DROP: 12. %VD: 0.09

PROJECTED POWER FLOW: 1966.1 KW 1206.0 KVAR 2306.5 KVA 0.85 LAGGING

LOSSES THRU FEEDER: 1.9 KW 1.2 KVAR 2.3 KVA

LOAD TO: BUS-TDIS-0341P CABL-0102 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: 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: 113.0 VOLTAGE DROP: 10. %VD: 0.08

PROJECTED POWER FLOW: 1966.1 KW 1206.0 KVAR 2306.5 KVA 0.85 LAGGING

LOSSES THRU FEEDER: 1.7 KW 1.0 KVAR 2.0 KVA

==== BUS: PADS-0008 DESIGN VOLTS: 12470 BUS VOLTS: 11775 %VD: 5.57 $

========== PU BUS VOLTAGE: 0.944 ANGLE: -3.8 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-0009 CABL-0106 FEEDER AMPS: 98.2 VOLTAGE DROP: 16. %VD: 0.13

PROJECTED POWER FLOW: -1715.1 KW -1035.5 KVAR 2003.4 KVA 0.86 LAGGING

LOSSES THRU FEEDER: 2.3 KW 1.4 KVAR 2.7 KVA

LOAD TO: BUS-TDIS-0331P CABL-0104 FEEDER AMPS: 9.0 VOLTAGE DROP: 1. %VD: 0.00

PROJECTED POWER FLOW: 144.2 KW 112.3 KVAR 182.7 KVA 0.79 LAGGING

LOSSES THRU FEEDER: 0.0 KW 0.0 KVAR 0.0 KVA

LOAD TO: BUS-TDIS-0361P CABL-0105 FEEDER AMPS: 5.9 VOLTAGE DROP: 0. %VD: 0.00

PROJECTED POWER FLOW: 105.1 KW 57.1 KVAR 119.7 KVA 0.88 LAGGING

LOSSES THRU FEEDER: 0.0 KW 0.0 KVAR 0.0 KVA

LOAD FROM: PADS-0007 CABL-0103 FEEDER AMPS: 113.0 VOLTAGE DROP: 10. %VD: 0.08

PROJECTED POWER FLOW: 1964.4 KW 1204.9 KVAR 2304.5 KVA 0.85 LAGGING

LOSSES THRU FEEDER: 1.7 KW 1.0 KVAR 2.0 KVA

==== BUS: PADS-0009 DESIGN VOLTS: 12470 BUS VOLTS: 11759 %VD: 5.70 $

========== PU BUS VOLTAGE: 0.943 ANGLE: -3.8 DEGREES

LOAD TO: PADS-0008 CABL-0106 FEEDER AMPS: 98.2 VOLTAGE DROP: 16. %VD: 0.13

PROJECTED POWER FLOW: -1712.8 KW -1034.1 KVAR 2000.8 KVA 0.86 LAGGING

LOSSES THRU FEEDER: 2.3 KW 1.4 KVAR 2.7 KVA

LOAD TO: PADS-0010 CABL-0109 FEEDER AMPS: 83.4 VOLTAGE DROP: 0. %VD: 0.00

PROJECTED POWER FLOW: 1446.2 KW 892.8 KVAR 1699.6 KVA 0.85 LAGGING

LOSSES THRU FEEDER: 0.0 KW 0.0 KVAR 0.0 KVA

LOAD FROM: BUS-TDIS-0371P CABL-0107 FEEDER AMPS: 8.1 VOLTAGE DROP: 0. %VD: 0.00

PROJECTED POWER FLOW: -144.8 KW -78.7 KVAR 164.8 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 137.0 KVA 0.89 LAGGING

LOSSES THRU FEEDER: 0.0 KW 0.0 KVAR 0.0 KVA

==== BUS: PADS-0010 DESIGN VOLTS: 12470 BUS VOLTS: 11759 %VD: 5.70 $

========== PU BUS VOLTAGE: 0.943 ANGLE: -3.8 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: PADS-0011 CABL-0112 FEEDER AMPS: 58.3 VOLTAGE DROP: 8. %VD: 0.06

PROJECTED POWER FLOW: 995.6 KW 648.2 KVAR 1188.0 KVA 0.84 LAGGING

LOSSES THRU FEEDER: 0.7 KW 0.4 KVAR 0.8 KVA

LOAD FROM: PADS-0009 CABL-0109 FEEDER AMPS: 83.4 VOLTAGE DROP: 0. %VD: 0.00

PROJECTED POWER FLOW: 1446.2 KW 892.8 KVAR 1699.6 KVA 0.85 LAGGING

LOSSES THRU FEEDER: 0.0 KW 0.0 KVAR 0.0 KVA

LOAD FROM: BUS-TDIS-0951P CABL-0111 FEEDER AMPS: 18.2 VOLTAGE DROP: 1. %VD: 0.01

PROJECTED POWER FLOW: -325.3 KW -177.0 KVAR 370.3 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: 7.0 VOLTAGE DROP: 0. %VD: 0.00

PROJECTED POWER FLOW: -125.2 KW -67.6 KVAR 142.3 KVA 0.88 LAGGING

LOSSES THRU FEEDER: 0.0 KW 0.0 KVAR 0.0 KVA

==== BUS: PADS-0011 DESIGN VOLTS: 12470 BUS VOLTS: 11751 %VD: 5.77 $

========== PU BUS VOLTAGE: 0.942 ANGLE: -3.8 DEGREES

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 149.4 KVA 0.89 LAGGING

LOSSES THRU FEEDER: 0.0 KW 0.0 KVAR 0.0 KVA

LOAD FROM: PADS-0010 CABL-0112 FEEDER AMPS: 58.3 VOLTAGE DROP: 8. %VD: 0.06

PROJECTED POWER FLOW: 994.9 KW 647.8 KVAR 1187.2 KVA 0.84 LAGGING

LOSSES THRU FEEDER: 0.7 KW 0.4 KVAR 0.8 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 140.9 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: 44.2 VOLTAGE DROP: 7. %VD: 0.06

PROJECTED POWER FLOW: -736.6 KW -515.5 KVAR 899.0 KVA 0.82 LAGGING

LOSSES THRU FEEDER: 0.5 KW 0.3 KVAR 0.5 KVA

==== BUS: PADS-0012 DESIGN VOLTS: 12470 BUS VOLTS: 11795 %VD: 5.41 $

========== PU BUS VOLTAGE: 0.946 ANGLE: -3.8 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-TDIS-0141P CABL-0401 FEEDER AMPS: 79.4 VOLTAGE DROP: 2. %VD: 0.02

PROJECTED POWER FLOW: 1343.9 KW 907.0 KVAR 1621.4 KVA 0.83 LAGGING

LOSSES THRU FEEDER: 0.2 KW 0.1 KVAR 0.3 KVA

LOAD FROM: PADS-0001 CABL-0207 FEEDER AMPS: 31.5 VOLTAGE DROP: 2. %VD: 0.02

PROJECTED POWER FLOW: -557.2 KW -321.0 KVAR 643.1 KVA 0.87 LAGGING

LOSSES THRU FEEDER: 0.1 KW 0.1 KVAR 0.1 KVA

LOAD FROM: BUS-091MAIN CABL-0400 FEEDER AMPS: 197.4 VOLTAGE DROP: 1. %VD: 0.01

PROJECTED POWER FLOW: 3407.6 KW 2157.9 KVAR 4033.4 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: 86.7 VOLTAGE DROP: 2. %VD: 0.02

PROJECTED POWER FLOW: 1506.4 KW 930.0 KVAR 1770.4 KVA 0.85 LAGGING

LOSSES THRU FEEDER: 0.3 KW 0.2 KVAR 0.3 KVA

==== BUS: PADS-0013 DESIGN VOLTS: 12470 BUS VOLTS: 11766 %VD: 5.65 $

========== PU BUS VOLTAGE: 0.944 ANGLE: -3.8 DEGREES

LOAD FROM: BUS-TDIS-0113P CABL-0304A FEEDER AMPS: 16.6 VOLTAGE DROP: 0. %VD: 0.00

PROJECTED POWER FLOW: -301.6 KW -152.9 KVAR 338.2 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 -103.0 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: 40.9 VOLTAGE DROP: 1. %VD: 0.01

PROJECTED POWER FLOW: -741.9 KW -379.9 KVAR 833.5 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: 13.2 VOLTAGE DROP: 0. %VD: 0.00

PROJECTED POWER FLOW: -238.1 KW -123.9 KVAR 268.4 KVA 0.89 LAGGING

LOSSES THRU FEEDER: 0.0 KW 0.0 KVAR 0.0 KVA

==== BUS: SA-0611 DESIGN VOLTS: 12470 BUS VOLTS: 11778 %VD: 5.55 $

========== PU BUS VOLTAGE: 0.945 ANGLE: -3.8 DEGREES

BALANCED VOLTAGE DROP AND LOAD FLOW ANALYSIS

****

VOLTAGE EFFECT ON LOADS MODELED

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

LOAD FROM: MH-0006SPL CABL-0316 FEEDER AMPS: 110.0 VOLTAGE DROP: 3. %VD: 0.02

PROJECTED POWER FLOW: 1965.8 KW 1083.0 KVAR 2244.3 KVA 0.88 LAGGING

LOSSES THRU FEEDER: 0.5 KW 0.3 KVAR 0.5 KVA

LOAD FROM: MH-0011SPL CABL-0303 FEEDER AMPS: 78.2 VOLTAGE DROP: 7. %VD: 0.06

PROJECTED POWER FLOW: -1386.6 KW -788.5 KVAR 1595.1 KVA 0.87 LAGGING

LOSSES THRU FEEDER: 0.8 KW 0.5 KVAR 1.0 KVA

LOAD TO: BUS-0611_MDPH TDIS-0611 TRANSF AMPS: 16.6 VOLTAGE DROP: 183. %VD: 1.47

PROJECTED POWER FLOW: 301.7 KW 153.7 KVAR 338.6 KVA 0.89 LAGGING

LOSSES THRU TRANSF: 1.7 KW 8.4 KVAR 8.6 KVA

LOAD TO: BUS-0612_MDPL TDIS-0612 TRANSF AMPS: 15.3 VOLTAGE DROP: 168. %VD: 1.35

PROJECTED POWER FLOW: 277.4 KW 140.8 KVAR 311.1 KVA 0.89 LAGGING

LOSSES THRU TRANSF: 1.4 KW 7.1 KVAR 7.2 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.	0.9237	BUS-0031	208.	0.9302
BUS-0041	480.	0.9312	BUS-0051	480.	0.9235
BUS-0071	208.	0.9037	BUS-0072	480.	0.9198
BUS-0073	480.	0.9312	BUS-0081	208.	0.9207
BUS-0100	12470.	0.9455	BUS-0101	208.	0.9174
BUS-0102	480.	0.9092	BUS-0111	480.	0.0000
BUS-0113	208.	0.9287	BUS-0114	480.	0.9300
BUS-0115	480.	0.9219	BUS-0121	480.	0.9337
BUS-0125	480.	0.9117	BUS-0129	480.	0.9165
BUS-0131	480.	0.0000	BUS-0137	480.	0.9046
BUS-0141	480.	0.9117	BUS-0142	480.	0.9126
BUS-0331	480.	0.9243	BUS-0341	208.	0.9451
BUS-0351	208.	0.9451	BUS-0361	208.	0.9030
BUS-0371	208.	0.9030	BUS-0391	208.	0.9179
BUS-0411	208.	0.9054	BUS-0421	208.	0.9217
BUS-0441	208.	0.9253	BUS-0451	480.	0.9294
BUS-0452	480.	0.9183	BUS-0611_MDPH	480.	0.9298

BUS-0612_MDPL 208. 0.9310 BUS-0910 12470. 0.9460

BUS-0911 480. 0.9373 BUS-091MAIN 12470. 0.9460

BUS-0941 480. 0.9183 BUS-0951 208. 0.9053

BUS-0952 208. 0.9038 BUS-GEN-HP 480. 0.9407

BUS-SG-4TAP 12470. 0.9431 BUS-TDIS-0021 12470. 0.9431

BUS-TDIS-0031P 12470. 0.9431 BUS-TDIS-0041P 12470. 0.9431

BUS-TDIS-0051 12470. 0.9431 BUS-TDIS-0071P 12470. 0.9454

BUS-TDIS-0072P 12470. 0.9453 BUS-TDIS-0081P 12470. 0.9440

BUS-TDIS-0101P 12470. 0.9455 BUS-TDIS-0102P 12470. 0.9455

BUS-TDIS-0111P 12470. 0.0000 BUS-TDIS-0112P 12470. 0.9435

BUS-TDIS-0113P 12470. 0.9435 BUS-TDIS-0113P 12470. 0.9435

BUS-TDIS-0121P 12470. 0.9440 BUS-TDIS-0141P 12470. 0.9457

BUS-TDIS-0331P 12470. 0.9442 BUS-TDIS-0341P 12470. 0.9451

BUS-TDIS-0351P 12470. 0.9451 BUS-TDIS-0361P 12470. 0.9442

BUS-TDIS-0371P 12470. 0.9430 BUS-TDIS-0391P 12470. 0.9430

BUS-TDIS-0411P 12470. 0.9429 BUS-TDIS-0421P 12470. 0.9423

BUS-TDIS-0421S 208. 0.9243 BUS-TDIS-0441P 12470. 0.9423

BUS-TDIS-0451P 12470. 0.9457 BUS-TDIS-0911P 12470. 0.9460

BUS-TDIS-0941 12470. 0.9427 BUS-TDIS-0942 12470. 0.9427

BUS-TDIS-0951P 12470. 0.9429 BUS-TDIS-0951P 12470. 0.9418

BUS-WP&L 12470. 0.9470 MH-0006SPL 12470. 0.9447

MH-0011SPL 12470. 0.9439 MH-0037SPL 12470. 0.9433

PADS-0001 12470. 0.9457 PADS-0002 12470. 0.9441

PADS-0003 12470. 0.9432 PADS-0004 12470. 0.9431

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.	0.9428	PADS-0005	12470.	0.9436
PADS-0006	12470.	0.9454	PADS-0007	12470.	0.9451
PADS-0008	12470.	0.9443	PADS-0009	12470.	0.9430
PADS-0010	12470.	0.9430	PADS-0011	12470.	0.9423
PADS-0012	12470.	0.9459	PADS-0013	12470.	0.9435
SA-0611	12470.	0.9445			

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	0.10	624.74	12778.41	131.72
CABL-0100	BUS-091MAIN	PADS-0007	FDR	0.09	113.00	2308.80	42.63
CABL-0200	BUS-091MAIN	PADS-0001	FDR	0.03	118.42	2419.64	44.68
CABL-0300	BUS-091MAIN	PADS-0006	FDR	0.06	155.82	3183.90	58.79
CABL-0400	BUS-091MAIN	PADS-0012	FDR	0.01	197.42	4033.86	74.49
CABL-0500	BUS-091MAIN	BUS-TDIS-0911P	FDR	0.00	40.50	827.51	15.28
TDIS-0911	BUS-TDIS-0911P	BUS-0911	TX2	0.87	2.71	55.40	19.52
CABL-0202	PADS-0002	PADS-0001	FDR	-0.17	103.65	2113.53	39.11
CABL-0201	PADS-0001	BUS-0100	FDR	0.02	46.35	946.71	17.49
TDIS-0101	BUS-TDIS-0101P	BUS-0101	TX2	2.81	22.38	457.11	80.58
CABL-0103	PADS-0007	PADS-0008	FDR	0.08	113.00	2306.52	42.63
TDIS-0102	BUS-TDIS-0102P	BUS-0102	TX2	3.63	23.96	489.36	77.83
CABL-0201A	BUS-0100	BUS-TDIS-0102P	FDR	0.00	23.96	489.38	9.04
CABL-0205	PADS-0003	PADS-0002	FDR	-0.09	74.79	1523.46	28.22
TDIS-0051	BUS-TDIS-0051	BUS-0051	TX2	1.96	14.71	299.57	63.52
CABL-DOUD	PADS-0003	BUS-TDIS-0051	FDR	0.00	14.71	299.57	5.55

TDIS-0021	BUS-TDIS-0021	BUS-0021	TX2	1.94	7.24	147.49	52.13
CABL-0206	PADS-0003	BUS-TDIS-0021	FDR	0.00	7.24	147.49	2.73
CABL-0208	PADS-0004	PADS-0003	FDR	-0.00	52.88	1077.10	19.95
CABL-0311	PADS-0005	MH-0011SPL	FDR	-0.03	78.19	1593.63	29.50
CABL-0306	PADS-0005	MH-0037SPL	FDR	0.04	37.38	761.78	14.10
TDIS-0041	BUS-TDIS-0041P	BUS-0041	TX2	1.18	17.12	348.81	27.75
CABL-0308	BUS-TDIS-0041P	BUS-SG-4TAP	FDR	-0.01	17.12	348.81	6.24
CABL-0310	PADS-0004	MH-0037SPL	FDR	-0.01	37.38	761.38	14.10
CABL-0307	PADS-0004A	PADS-0004	FDR	-0.04	67.37	1371.83	25.42
TDIS-0941	BUS-TDIS-0941	BUS-0941	TX2	2.44	33.39	679.85	72.12
CBL-GEN-HP	BUS-GEN-HP	BUS-0911	FDR	0.34	69.17	54.10	40.69
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	110.01	2246.51	41.51
CABL-030X	PADS-0013	PADS-0005	FDR	-0.01	40.90	833.45	15.43
TDIS-0112	BUS-TDIS-0112P	BUS-0113	TX2	1.48	11.13	226.89	36.16
TDIS-0113	BUS-TDIS-0113P	BUS-0114	TX2	1.35	16.59	338.18	35.84
CABL-0303	MH-0011SPL	SA-0611	FDR	-0.06	78.19	1594.14	29.50
TDIS-0071	BUS-TDIS-0071P	BUS-0071	TX2	4.17	19.98	407.99	107.89
CABL-0302	BUS-TDIS-0072P	PADS-0006	FDR	-0.01	25.84	527.49	9.75
TDIS-0072	BUS-TDIS-0072P	BUS-0072	TX2	2.55	16.55	338.00	53.61
CABL-0301	BUS-TDIS-0071P	PADS-0006	FDR	-0.01	19.98	407.99	7.54
CABL-0106	PADS-0009	PADS-0008	FDR	-0.13	98.23	2000.77	37.06
CABL-0102	PADS-0007	BUS-TDIS-0341P	FDR	0.00	0.00	0.00	0.00
TDIS-0341	BUS-TDIS-0341P	BUS-0341	TX2	0.00	0.00	0.00	0.00
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	1.99	8.96	182.74	38.71
CABL-0104	PADS-0008	BUS-TDIS-0331P	FDR	0.00	8.96	182.75	3.38
TDIS-0361	BUS-TDIS-0361P	BUS-0361	TX2	4.12	5.87	119.66	112.65
CABL-0105	PADS-0008	BUS-TDIS-0361P	FDR	0.00	5.87	119.67	2.21
CABL-0109	PADS-0009	PADS-0010	FDR	0.00	83.45	1699.60	31.48
CABL-0107	BUS-TDIS-0371P	PADS-0009	FDR	-0.00	8.09	164.76	3.05
CABL-0108	BUS-TDIS-0391P	PADS-0009	FDR	-0.00	6.73	136.98	2.54
TDIS-0391	BUS-TDIS-0391P	BUS-0391	TX2	2.51	6.73	136.98	64.56
TDIS-0081	BUS-TDIS-0081P	BUS-0081	TX2	2.33	17.27	352.04	74.58
CABL-0203	PADS-0002	BUS-TDIS-0081P	FDR	0.01	17.27	352.06	6.51
TDIS-0121	BUS-TDIS-0121P	BUS-0121	TX2	1.03	11.63	237.02	25.17
CABL-0204	PADS-0002	BUS-TDIS-0121P	FDR	0.01	11.63	237.05	4.39
CABL-0110	BUS-TDIS-0411P	PADS-0010	FDR	-0.00	6.99	142.33	2.64
CABL-0112	PADS-0010	PADS-0011	FDR	0.06	58.33	1188.01	22.01
CABL-0113	PADS-0011	BUS-TDIS-0421P	FDR	0.00	6.92	140.86	2.61

CABL-0114 PADS-0011 BUS-TDIS-0441P FDR 0.00 7.34 149.36 2.77

TDIS-0421 BUS-TDIS-0421P BUS-TDIS-0421S TX2 1.80 6.92 140.86 66.44

CABL-HUG_208 BUS-TDIS-0421S BUS-0421 FDR 0.26 414.93 138.17 59.28

TDIS-0441 BUS-TDIS-0441P BUS-0441 TX2 1.70 7.34 149.36 52.83

CABL-0312 BUS-TDIS-0941 PADS-0004A FDR -0.01 33.39 679.85 12.60

CABL-0401 PADS-0012 BUS-TDIS-0141P FDR 0.02 79.36 1621.35 29.94

CABL-0207 PADS-0001 PADS-0012 FDR -0.02 31.48 642.98 11.88

TDIS-0411 BUS-TDIS-0411P BUS-0411 TX2 3.75 6.99 142.33 100.63

CABL-0111 BUS-TDIS-0951P PADS-0010 FDR -0.01 18.18 370.33 6.86

TDIS-0951 BUS-TDIS-0951P BUS-0951 TX2 3.76 18.18 370.33 130.92

TDIS-0371 BUS-TDIS-0371P BUS-0371 TX2 4.00 8.09 164.76 116.48

CABL-0316 MH-0006SPL SA-0611 FDR 0.02 110.01 2244.88 41.51

TDIS-0611 SA-0611 BUS-0611_MDPH TX2 1.47 16.60 338.60 35.94

TDIS-0612 SA-0611 BUS-0612_MDPL TX2 1.35 15.25 311.11 33.02

CABL-0304A BUS-TDIS-0113P PADS-0013 FDR -0.00 16.59 338.18 6.26

CABL-0304 BUS-TDIS-0112P PADS-0013 FDR -0.01 11.13 226.89 4.20

CABL-0201B BUS-0100 BUS-TDIS-0101P FDR 0.00 22.38 457.14 8.45

TDIS-0141 BUS-TDIS-0141P BUS-0141 TX2 3.40 40.21 821.31 86.84

CABL-0600 BUS-TDIS-0911P BUS-0910 FDR -0.00 13.14 268.47 4.96

CABL-0402 PADS-0012 BUS-TDIS-0451P FDR 0.02 86.65 1770.35 32.69

TDIS-0451 BUS-TDIS-0451P BUS-0451 TX2 1.63 18.43 376.51 53.08

TDIS-0031 BUS-TDIS-0031P BUS-0031 TX2 1.30 5.86 119.42 42.21

CABL-0308A BUS-SG-4TAP PADS-0004 FDR -0.00 22.99 468.26 8.38

CABL-0313 BUS-TDIS-0031P BUS-SG-4TAP FDR -0.00 5.86 119.42 2.14

TDIS-0942 BUS-TDIS-0942 BUS-0125 TX2 3.10 34.28 697.94 74.04

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	34.28	697.94	12.93
TDIS-0073	BUS-TDIS-0072P	BUS-0073	TX2	1.42	9.28	189.50	30.06
TDIS-0142	BUS-TDIS-0141P	BUS-0142	TX2	3.31	39.15	799.76	84.56
TDIS-0452	BUS-TDIS-0451P	BUS-0452	TX2	2.75	36.75	750.68	79.38
TDIS-0912	BUS-TDIS-0451P	BUS-0129	TX2	2.92	31.83	650.10	68.74
CABL-0115	BUS-TDIS-0951P	PADS-0011	FDR	-0.06	44.17	898.50	16.67
TDIS-0114	BUS-TDIS-0113P	BUS-0115	TX2	2.16	13.17	268.36	28.44
CABL-0304A0	BUS-TDIS-0113P	PADS-0013	FDR	-0.00	13.17	268.36	4.97
TDIS-0453	BUS-TDIS-0951P	BUS-0952	TX2	3.80	44.17	898.50	95.41
TDIS-0915	BUS-TDIS-0341P	BUS-0131	FDR	0.00	0.00	0.00	0.00
TDIS-0914	BUS-TDIS-0911P	BUS-0137	TX2	4.14	44.78	915.01	96.73

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 ***

141. KW 577. KVAR