APPENDIX D

Steady State and Voltage Stability Analysis

PART A – 2012

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D1- Category A & B Analysis

Table D-2012-1: Summary of 2012 Load Adequacy Power Flow Analysis - Alternative 1

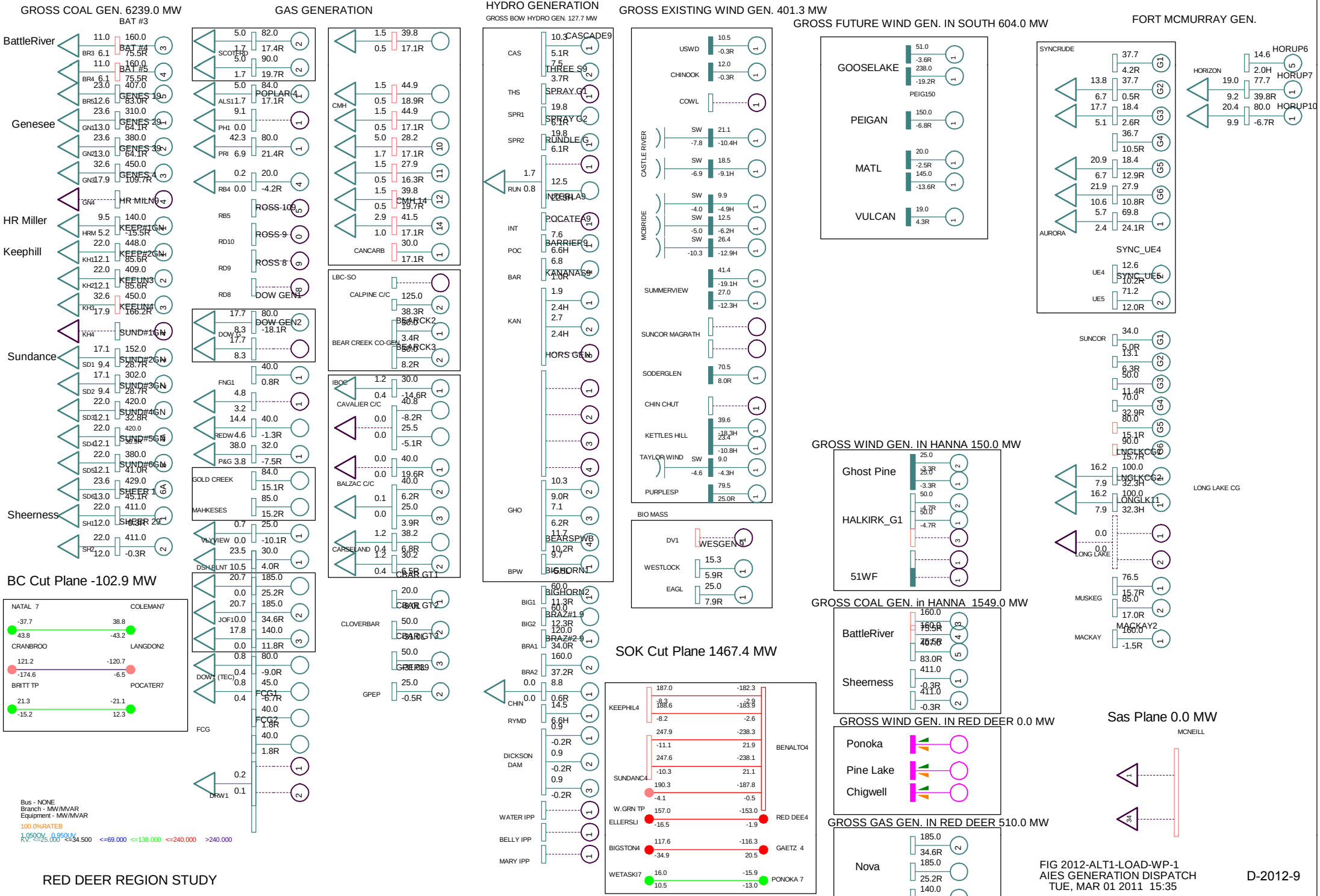
Figure No.	Contingency	Overloaded Element	Percent Overload	Other System Performance Concerns
Winter Peak				
Fig 2012-Alt1-Load-WP-1	AIES Generation Dispatch	N/A	N/A	N/A
Fig 2012-Alt1-Load-WP-2	All Elements in Service	None	N/A	None
Fig 2012-Alt1-Load-WP-3	500kV 1202L (Ellerslie 89S to Keephills 320P)	None	N/A	None
Fig 2012-Alt1-Load-WP-4	500kV 1209L (Ellerslie 89S to Genesee E330P)	None	N/A	None
Fig 2012-Alt1-Load-WP-5	500kV 1203L (Genesee E330P to Keephills 320P)	None	N/A	None
Fig 2012-Alt1-Load-WP-6	240kV 914L (Ellerslie 89S to Bigstone 86S)	None	N/A	None
Fig 2012-Alt1-Load-WP-7	240kV 914L (Bigstone 86S to Gaetz 87S)	None	N/A	None
Fig 2012-Alt1-Load-WP-8	240kV 910L (Ellerslie 89S to Red Deer 63S)	None	N/A	None
Fig 2012-Alt1-Load-WP-9	240kV 914L (Gaetz 87S to Red Deer 63S)	None	N/A	None
Fig 2012-Alt1-Load-WP-10	240kV 900L (Red Deer 63S to Benalto 17S)	None	N/A	None
Fig 2012-Alt1-Load-WP-11	240kV 929/925L (Red Deer 63S to Janet 74S)	None	N/A	None
Fig 2012-Alt1-Load-WP-12	240kV 901L (Red Deer 63S to Crossfield 64S)	None	N/A	None
Fig 2012-Alt1-Load-WP-13	240kV 912L (Red Deer 63S to Nevis 766S)	None	N/A	None
Fig 2012-Alt1-Load-WP-14	240 kV 926/922L (Sundance 310P to Benalto 17S)	None	N/A	None
Fig 2012-Alt1-Load-WP-15	240kV 190/903L (Keephills 320P to Benalto 17S)	None	N/A	None
Fig 2012-Alt1-Load-WP-16	240 kV 995L (Amoco Willesden Green 68S to Benalto 17S)	None	N/A	None
Fig 2012-Alt1-Load-WP-17	240 kV 906/928L (Benalto 17S to Sarcee 42S)	None	N/A	None
Fig 2012-Alt1-Load-WP-18	240 kV 918L (Benalto 17S to Didsbury Sub. (152S)	None	N/A	None
Fig 2012-Alt1-Load-WP-19	240 kV 918L (Didsbury Sub. (152S) to Beddington 162S)	None	N/A	None
Fig 2012-Alt1-Load-WP-20	240/138kV Transformer at Gaetz 87S	None	N/A	None
Fig 2012-Alt1-Load-WP-21	240/138kV Transformer at Red Deer 63S	None	N/A	None
Fig 2012-Alt1-Load-WP-22	240/138kV Transformer at Benalto 17S	None	N/A	None
Fig 2012-Alt1-Load-WP-23	240/138kV Transformer at Didsbury Sub. (152S)	None	N/A	None
Fig 2012-Alt1-Load-WP-24	138 kV 716L (Ponoka 331S to Wetaskiwin 40S)	None	N/A	None
Fig 2012-Alt1-Load-WP-25	138 kV 80L (Ponoka 331S to W. Lacombe 958S)	None	N/A	None
Fig 2012-Alt1-Load-WP-26	138 kV 80L (W. Lacombe 958S to Blackfalds 198S)	None	N/A	None
Fig 2012-Alt1-Load-WP-27	138 kV 80L (Blackfalds 198S to N. Red Deer 217S)	None	N/A	None

Figure No.	Contingency	Overloaded Element	Percent Overload	Other System Performance Concerns
Fig 2012-Alt1-Load-WP-28	138 kV 80L (N. Red Deer 217S to S. Red Deer 194S)	None	N/A	None
Fig 2012-Alt1-Load-WP-29	138 kV 768L (N. Red Deer 217S to Gaetz 87S)	None	N/A	None
Fig 2012-Alt1-Load-WP-30	138 kV 793/756L (Gaetz 87S to Joffre 535S)	None	N/A	None
Fig 2012-Alt1-Load-WP-31	138 kV 80L (S. Red Deer 194S to Red Deer 63S)	None	N/A	None
Fig 2012-Alt1-Load-WP-32	138 kV 755L (Red Deer 63S to Piper Creek 247S)	None	N/A	None
Fig 2012-Alt1-Load-WP-33	138 kV 755L (Joffre 535S to Piper Creek 247S)	None	N/A	None
Fig 2012-Alt1-Load-WP-34	138 kV 717L (Benalto 17S to Sylvan Lake 580S)	None	N/A	None
Fig 2012-Alt1-Load-WP-35	138 kV 717L (Red Deer 63S to Sylvan Lake 580S)	None	N/A	None
Fig 2012-Alt1-Load-WP-36	138 kV 80L (Red Deer 63S to Innisfail 214S)	None	N/A	None
Fig 2012-Alt1-Load-WP-37	138 kV 80L (Innisfail 214S To Olds 55S)	None	N/A	None
Summer Peak				
Fig 2012-Alt1-Load-SP-1	AIES Generation Dispatch	N/A	N/A	N/A
Fig 2012-Alt1-Load-SP-2	All Elements in Service	None	N/A	None
Fig 2012-Alt1-Load-SP-3	500kV 1202L (Ellerslie 89S to Keephills 320P)	None	N/A	None
Fig 2012-Alt1-Load-SP-4	500kV 1209L (Ellerslie 89S to Genesee E330P)	None	N/A	None
Fig 2012-Alt1-Load-SP-5	500kV 1203L (Genesee E330P to Keephills 320P)	None	N/A	None
Fig 2012-Alt1-Load-SP-6	240kV 914L (Ellerslie 89S to Bigstone 86S)	None	N/A	None
Fig 2012-Alt1-Load-SP-7	240kV 914L (Bigstone 86S to Gaetz 87S)	None	N/A	None
Fig 2012-Alt1-Load-SP-8	240kV 910L (Ellerslie 89S to Red Deer 63S)	None	N/A	None
Fig 2012-Alt1-Load-SP-9	240kV 914L (Gaetz 87S to Red Deer 63S)	None	N/A	None
Fig 2012-Alt1-Load-SP-10	240kV 900L (Red Deer 63S to Benalto 17S)	None	N/A	None
Fig 2012-Alt1-Load-SP-11	240kV 929/925L (Red Deer 63S to Janet 74S)	None	N/A	None
Fig 2012-Alt1-Load-SP-12	240kV 901L (Red Deer 63S to Crossfield 64S)	None	N/A	None
Fig 2012-Alt1-Load-SP-13	240kV 912L (Red Deer 63S to Nevis 766S)	None	N/A	None
Fig 2012-Alt1-Load-SP-14	240 kV 926/922L (Sundance 310P to Benalto 17S)	None	N/A	None
Fig 2012-Alt1-Load-SP-15	240kV 190/903L (Keephills 320P to Benalto 17S)	None	N/A	None
Fig 2012-Alt1-Load-SP-16	240 kV 995L (Amoco Willesden Green 68S to Benalto 17S)	None	N/A	None
Fig 2012-Alt1-Load-SP-17	240 kV 906/928L (Benalto 17S to Sarcee 42S)	None	N/A	None
Fig 2012-Alt1-Load-SP-18	240 kV 918L (Benalto 17S to Didsbury Sub. (152S)	None	N/A	None

Figure No.	Contingency	Overloaded Element	Percent Overload	Other System Performance Concerns
Fig 2012-Alt1-Load-SP-19	240 kV 918L (Didsbury Sub. (152S) to Beddington 162S)	None	N/A	None
Fig 2012-Alt1-Load-SP-20	240/138kV Transformer at Gaetz 87S	None	N/A	None
Fig 2012-Alt1-Load-SP-21	240/138kV Transformer at Red Deer 63S	None	N/A	None
Fig 2012-Alt1-Load-SP-22	240/138kV Transformer at Benalto 17S	None	N/A	None
Fig 2012-Alt1-Load-SP-23	240/138kV Transformer at Didsbury Sub. (152S)	None	N/A	None
Fig 2012-Alt1-Load-SP-24	138 kV 716L (Ponoka 331S to Wetaskiwin 40S)	None	N/A	None
Fig 2012-Alt1-Load-SP-25	138 kV 80L (Ponoka 331S to W. Lacombe 958S)	None	N/A	None
Fig 2012-Alt1-Load-SP-26	138 kV 80L (W. Lacombe 958S to Blackfalds 198S)	None	N/A	None
Fig 2012-Alt1-Load-SP-27	138 kV 80L (Blackfalds 198S to N. Red Deer 217S)	None	N/A	None
Fig 2012-Alt1-Load-SP-28	138 kV 80L (N. Red Deer 217S to S. Red Deer 194S)	None	N/A	None
Fig 2012-Alt1-Load-SP-29	138 kV 768L (N. Red Deer 217S to Gaetz 87S)	None	N/A	None
Fig 2012-Alt1-Load-SP-30	138 kV 793/756L (Gaetz 87S to Joffre 535S)	None	N/A	None
Fig 2012-Alt1-Load-SP-31	138 kV 80L (S. Red Deer 194S to Red Deer 63S)	None	N/A	None
Fig 2012-Alt1-Load-SP-32	138 kV 755L (Red Deer 63S to Piper Creek 247S)	None	N/A	None
Fig 2012-Alt1-Load-SP-33	138 kV 755L (Joffre 535S to Piper Creek 247S)	None	N/A	None
Fig 2012-Alt1-Load-SP-34	138 kV 717L (Benalto 17S to Sylvan Lake 580S)	None	N/A	None
Fig 2012-Alt1-Load-SP-35	138 kV 717L (Red Deer 63S to Sylvan Lake 580S)	None	N/A	None
Fig 2012-Alt1-Load-SP-36	138 kV 80L (Red Deer 63S to Innisfail 214S)	None	N/A	None
Fig 2012-Alt1-Load-SP-37	138 kV 80L (Innisfail 214S To Olds 55S)	None	N/A	None
Summer Light				
Fig 2012-Alt1-Load-SL-1	AIES Generation Dispatch	N/A	N/A	N/A
Fig 2012-Alt1-Load-SL-2	All Elements in Service	None	N/A	None
Fig 2012-Alt1-Load-SL-3	500kV 1202L (Ellerslie 89S to Keephills 320P)	None	N/A	None
Fig 2012-Alt1-Load-SL-4	500kV 1209L (Ellerslie 89S to Genesee E330P)	None	N/A	None
Fig 2012-Alt1-Load-SL-5	500kV 1203L (Genesee E330P to Keephills 320P)	None	N/A	None
Fig 2012-Alt1-Load-SL-6	240kV 914L (Ellerslie 89S to Bigstone 86S)	None	N/A	None
Fig 2012-Alt1-Load-SL-7	240kV 914L (Bigstone 86S to Gaetz 87S)	None	N/A	None
Fig 2012-Alt1-Load-SL-8	240kV 910L (Ellerslie 89S to Red Deer 63S)	None	N/A	None
Fig 2012-Alt1-Load-SL-9	240kV 914L (Gaetz 87S to Red Deer 63S)	None	N/A	None

Figure No.	Contingency	Overloaded Element	Percent Overload	Other System Performance Concerns
Fig 2012-Alt1-Load-SL-10	240kV 900L (Red Deer 63S to Benalto 17S)	None	N/A	None
Fig 2012-Alt1-Load-SL-11	240kV 929/925L (Red Deer 63S to Janet 74S)	None	N/A	None
Fig 2012-Alt1-Load-SL-12	240kV 901L (Red Deer 63S to Crossfield 64S)	None	N/A	None
Fig 2012-Alt1-Load-SL-13	240kV 912L (Red Deer 63S to Nevis 766S)	None	N/A	None
Fig 2012-Alt1-Load-SL-14	240 kV 926/922L (Sundance 310P to Benalto 17S)	None	N/A	None
Fig 2012-Alt1-Load-SL-15	240kV 190/903L (Keephills 320P to Benalto 17S)	None	N/A	None
Fig 2012-Alt1-Load-SL-16	240 kV 995L (Amoco Willesden Green 68S to Benalto 17S)	None	N/A	None
Fig 2012-Alt1-Load-SL-17	240 kV 906/928L (Benalto 17S to Sarcee 42S)	None	N/A	None
Fig 2012-Alt1-Load-SL-18	240 kV 918L (Benalto 17S to Didsbury Sub. (152S)	None	N/A	None
Fig 2012-Alt1-Load-SL-19	240 kV 918L (Didsbury Sub. (152S) to Beddington 162S)	None	N/A	None
Fig 2012-Alt1-Load-SL-20	240/138kV Transformer at Gaetz 87S	None	N/A	None
Fig 2012-Alt1-Load-SL-21	240/138kV Transformer at Red Deer 63S	None	N/A	None
Fig 2012-Alt1-Load-SL-22	240/138kV Transformer at Benalto 17S	None	N/A	None
Fig 2012-Alt1-Load-SL-23	240/138kV Transformer at Didsbury Sub. (152S)	None	N/A	None
Fig 2012-Alt1-Load-SL-24	138 kV 716L (Ponoka 331S to Wetaskiwin 40S)	None	N/A	None
Fig 2012-Alt1-Load-SL-25	138 kV 80L (Ponoka 331S to W. Lacombe 958S)	None	N/A	None
Fig 2012-Alt1-Load-SL-26	138 kV 80L (W. Lacombe 958S to Blackfalds 198S)	None	N/A	None
Fig 2012-Alt1-Load-SL-27	138 kV 80L (Blackfalds 198S to N. Red Deer 217S)	None	N/A	None
Fig 2012-Alt1-Load-SL-28	138 kV 80L (N. Red Deer 217S to S. Red Deer 194S)	None	N/A	None
Fig 2012-Alt1-Load-SL-29	138 kV 768L (N. Red Deer 217S to Gaetz 87S)	None	N/A	None
Fig 2012-Alt1-Load-SL-30	138 kV 793/756L (Gaetz 87S to Joffre 535S)	None	N/A	None
Fig 2012-Alt1-Load-SL-31	138 kV 80L (S. Red Deer 194S to Red Deer 63S)	None	N/A	None
Fig 2012-Alt1-Load-SL-32	138 kV 755L (Red Deer 63S to Piper Creek 247S)	None	N/A	None
Fig 2012-Alt1-Load-SL-33	138 kV 755L (Joffre 535S to Piper Creek 247S)	None	N/A	None
Fig 2012-Alt1-Load-SL-34	138 kV 717L (Benalto 17S to Sylvan Lake 580S)	None	N/A	None
Fig 2012-Alt1-Load-SL-35	138 kV 717L (Red Deer 63S to Sylvan Lake 580S)	None	N/A	None
Fig 2012-Alt1-Load-SL-36	138 kV 80L (Red Deer 63S to Innisfail 214S)	None	N/A	None
Fig 2012-Alt1-Load-SL-37	138 kV 80L (Innisfail 214S To Olds 55S)	None	N/A	None

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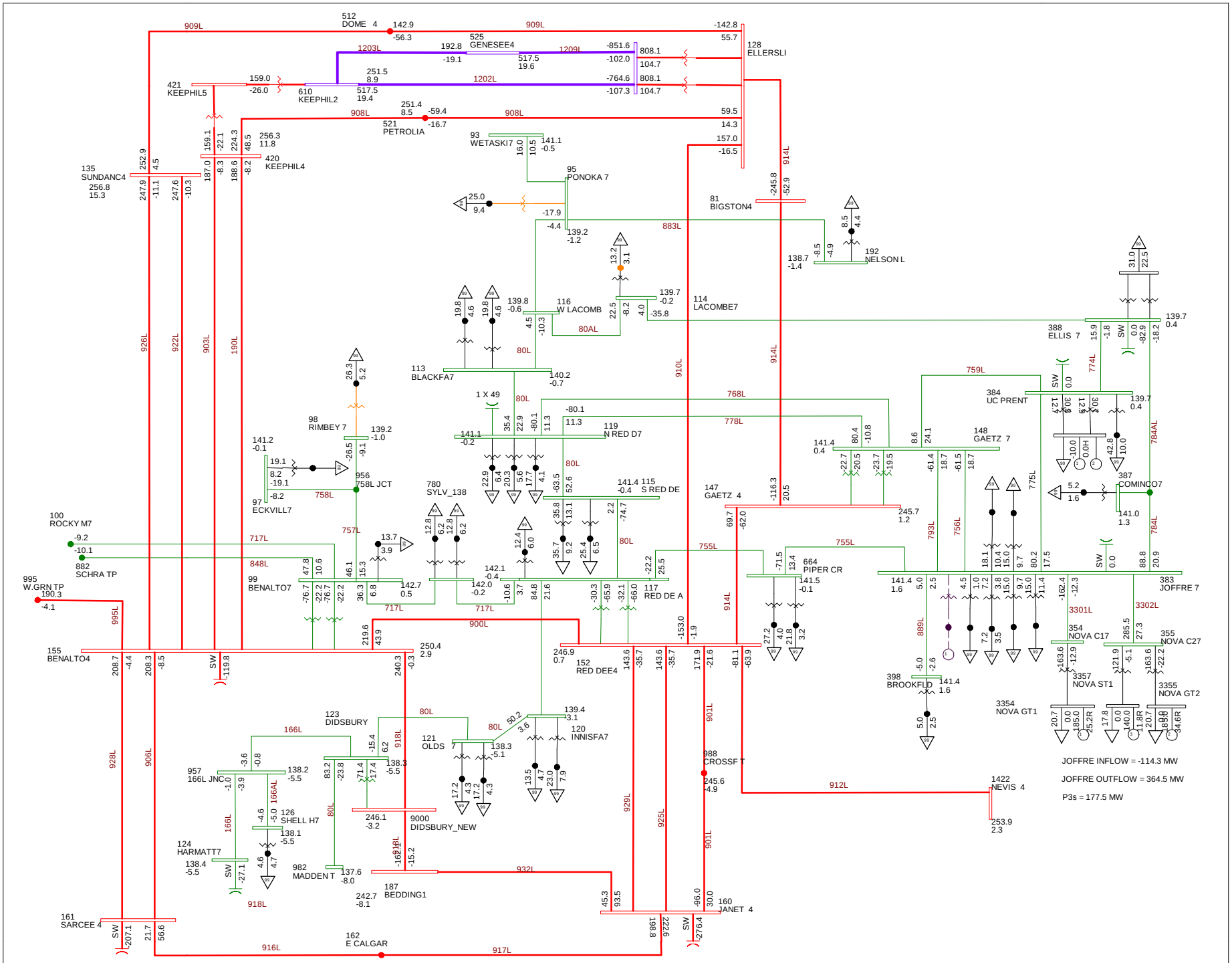


RED DEER REGION STUDY

2012 WINTER PEAK CASE GENERATION REV 6.5

FIG 2012-ALT1-LOAD-WP-1
AIES GENERATION DISPATCH
TUE, MAR 01 2011 15:35

D-2012-9

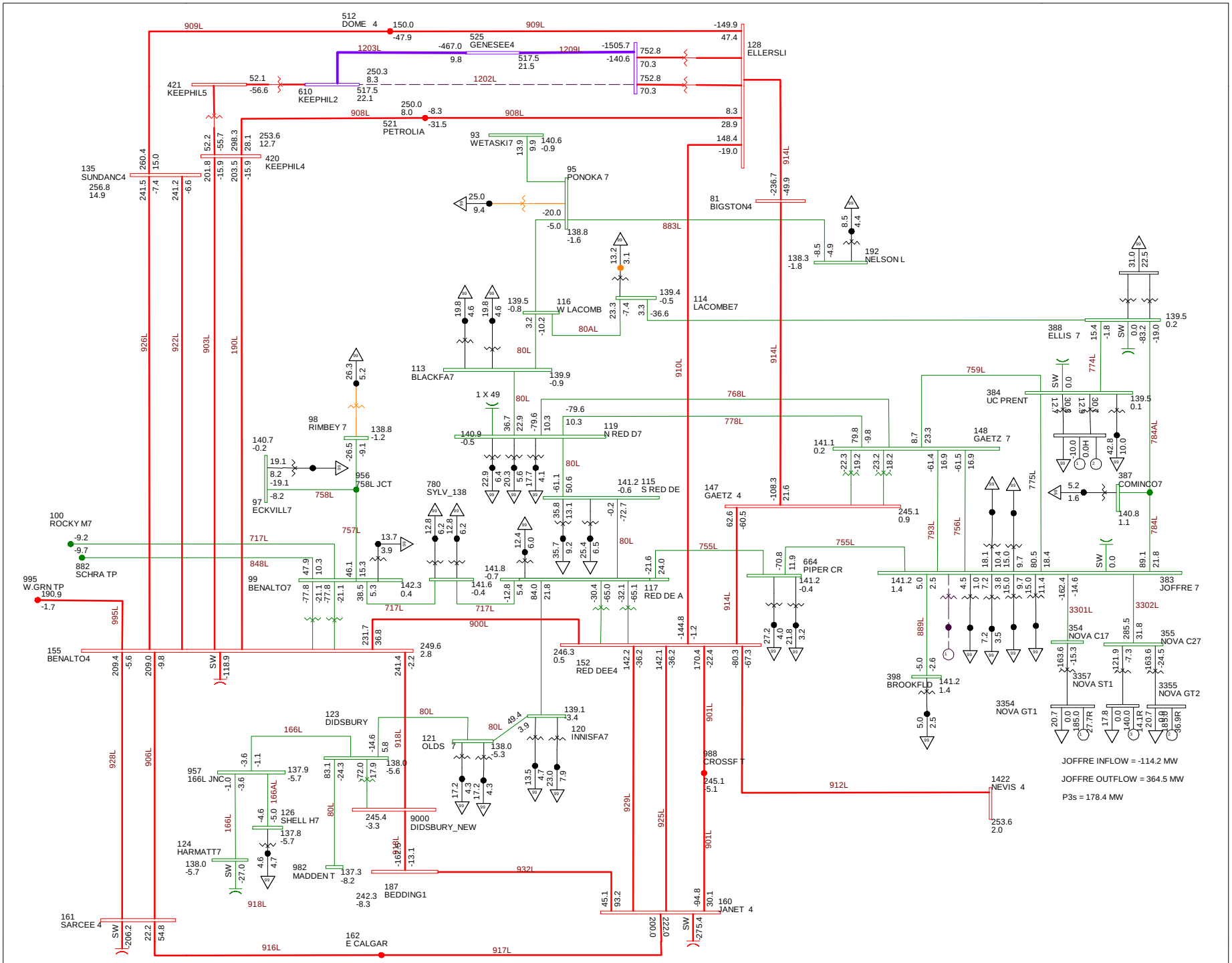


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2012 WINTER PEAK BASE CASE REVISION 6.5

FIG 2012-ALT1-LOAD-WP-2
ALL ELEMENTS IN SERVICE
TUE, MAR 01 2011 15:35

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
100.0%RATE
KV: <=1.000 <=34.500 <=138.000 <=500.000
1.050OV <=72.000 <=240.000 >500.000
0.900UV

D-2012-10



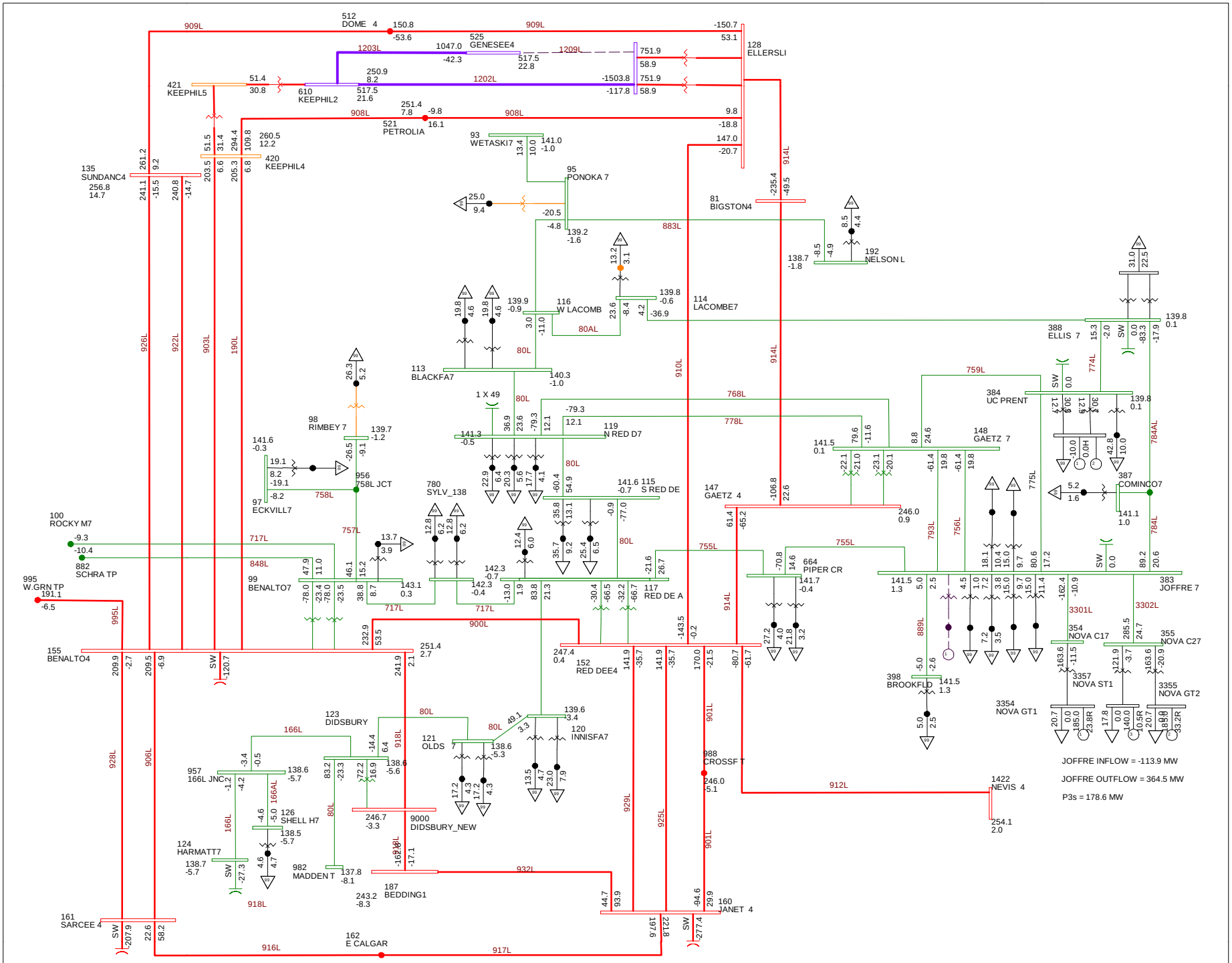
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FIG 2012-ALT1-LOAD-WP-3
500KV 1202L (ELLERSLIE 89S TO KEEPHILLS 320P) OUTAGE
TUE, MAR 01 2011 15:35

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
100.0%RATE
KV: <=1.000 1.050UV 0.900UV
<=34.500 <=72.000
<=138.000 <=240.000
<=500.000 >500.000

D-2012-11



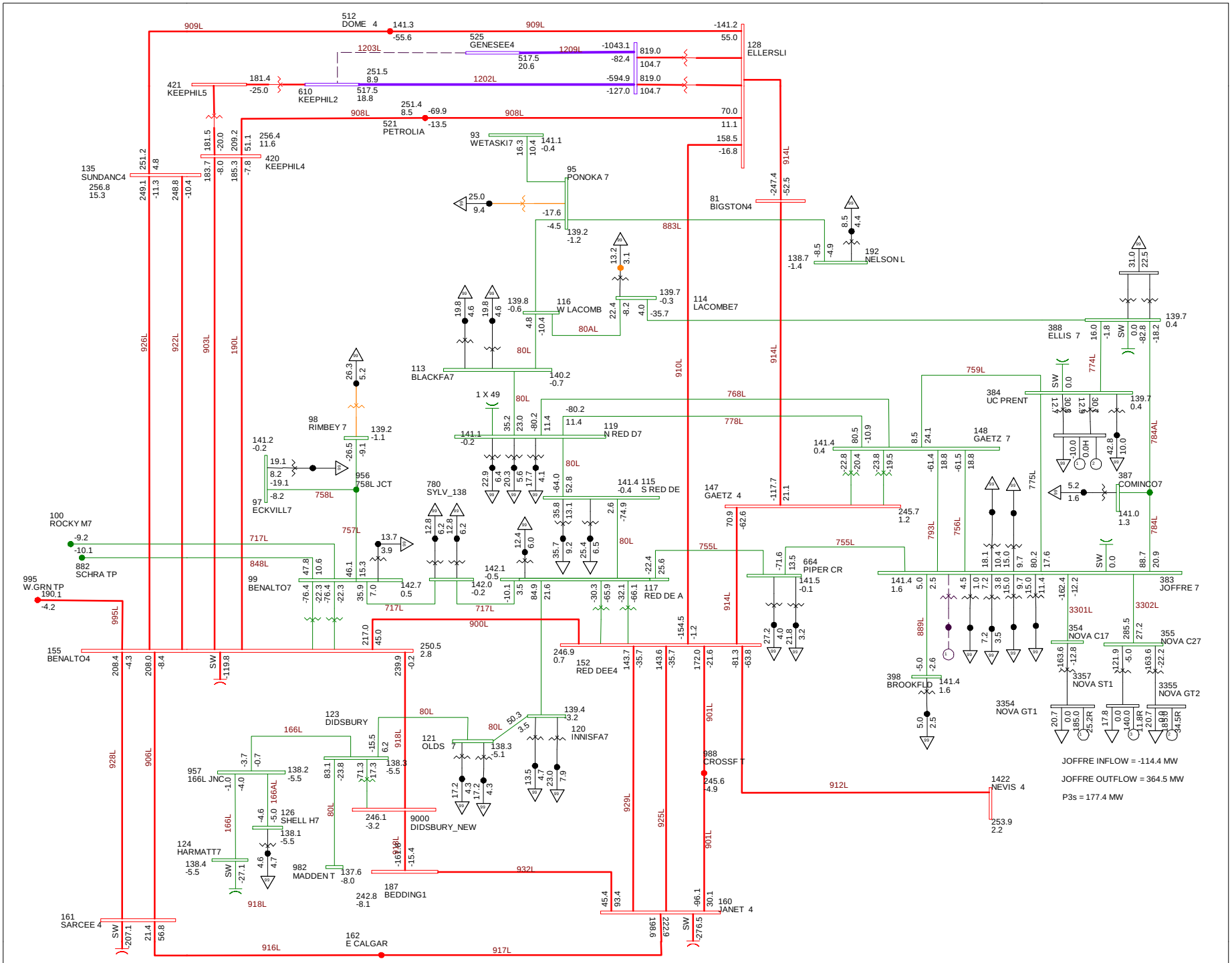
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2012 WINTER PEAK BASE CASE REVISION 6.5

FIG 2012-ALT1-LOAD-WP-4
500KV 1209L (ELLERSLIE 89S TO GENESEE E330P) OUTAGE
TUE, MAR 01 2011 15:35

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
100.0%RATE
KV: <=1.000 <=34.500 <=138.000 <=500.000
1.050OV <=72.000 <=240.000 >500.000
0.900UV

D-2012-12



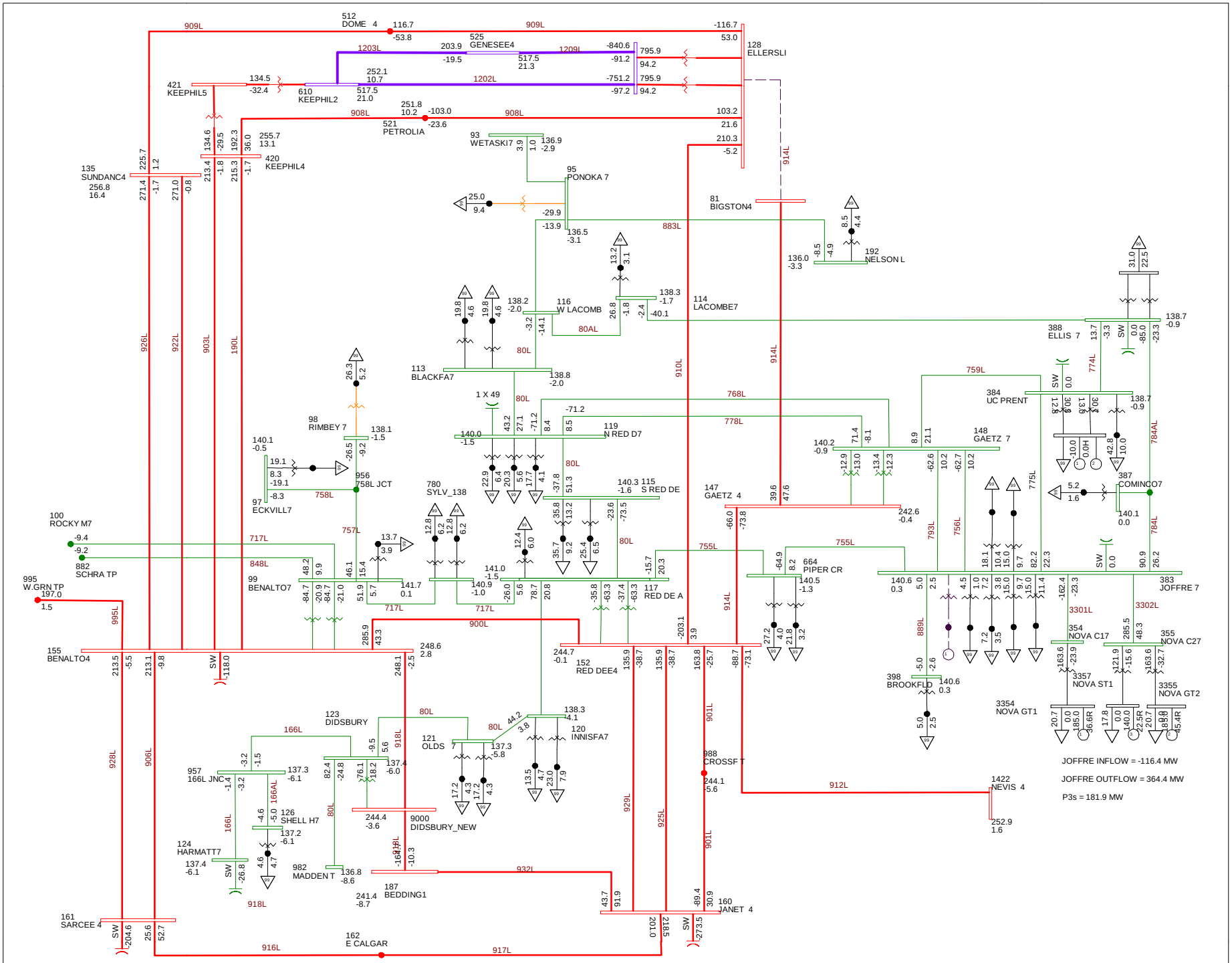
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FIG 2012-ALT1-LOAD-WP-5
500KV 1203L (GENESEE E330P TO KEEPHILLS 320P) OUTAGE
TUE, MAR 01 2011 15:35

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
100.0%RATE
KV: <=1.000 <=34.500 <=138.000 <=500.000
1.050UV <=72.000 <=240.000 >500.000
0.900UV

D-2012-13



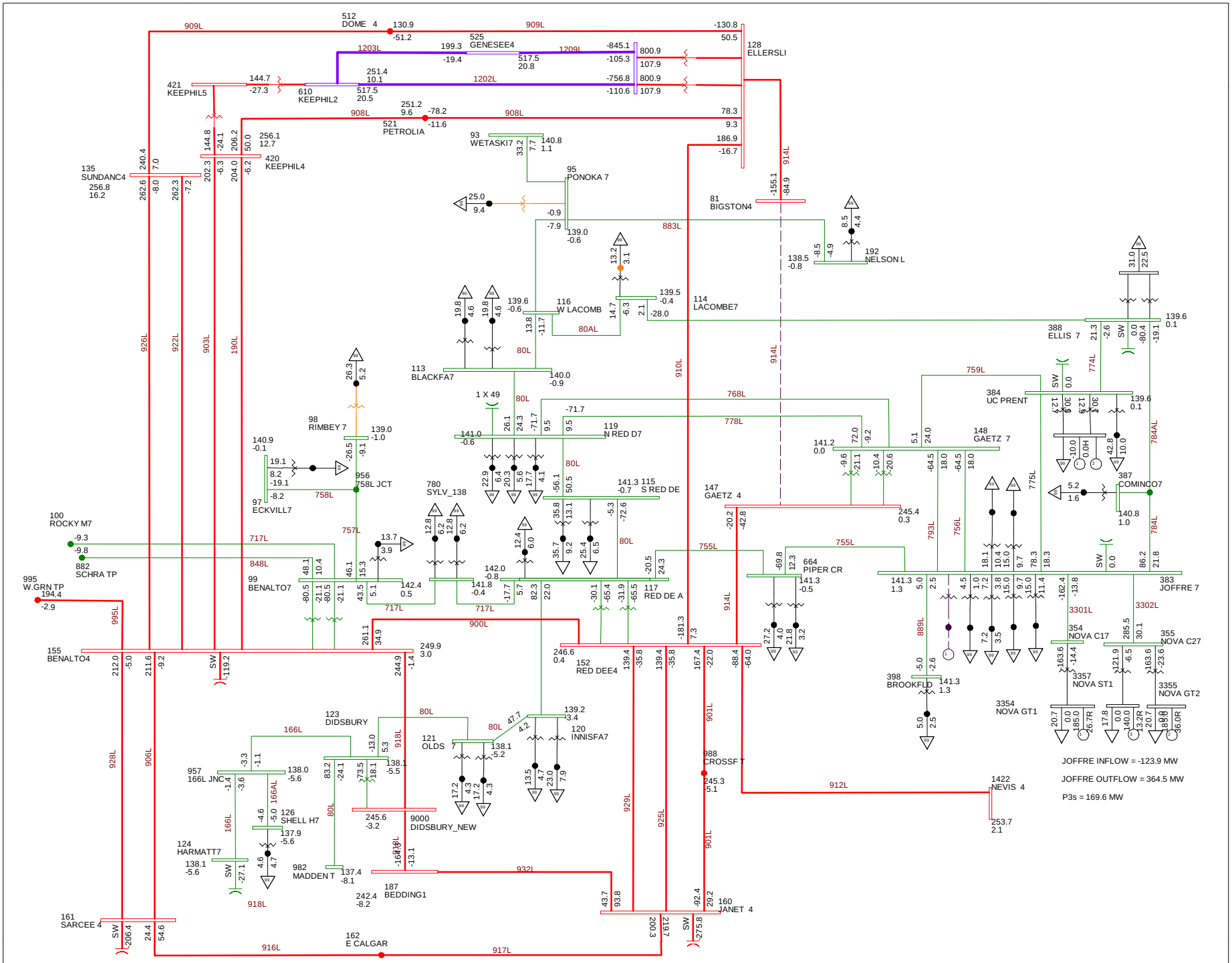
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FIG 2012-ALT1-LOAD-WP-6
240KV 914L (ELLERSLIE 89S TO BIGSTONE 86S) OUTAGE
TUE, MAR 01 2011 15:35

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
100.0%RATE
KV: <=1.000 <=34.500 <=138.000 <=500.000
1.050OV <=72.000 <=240.000 >500.000
0.900UV

D-2012-14



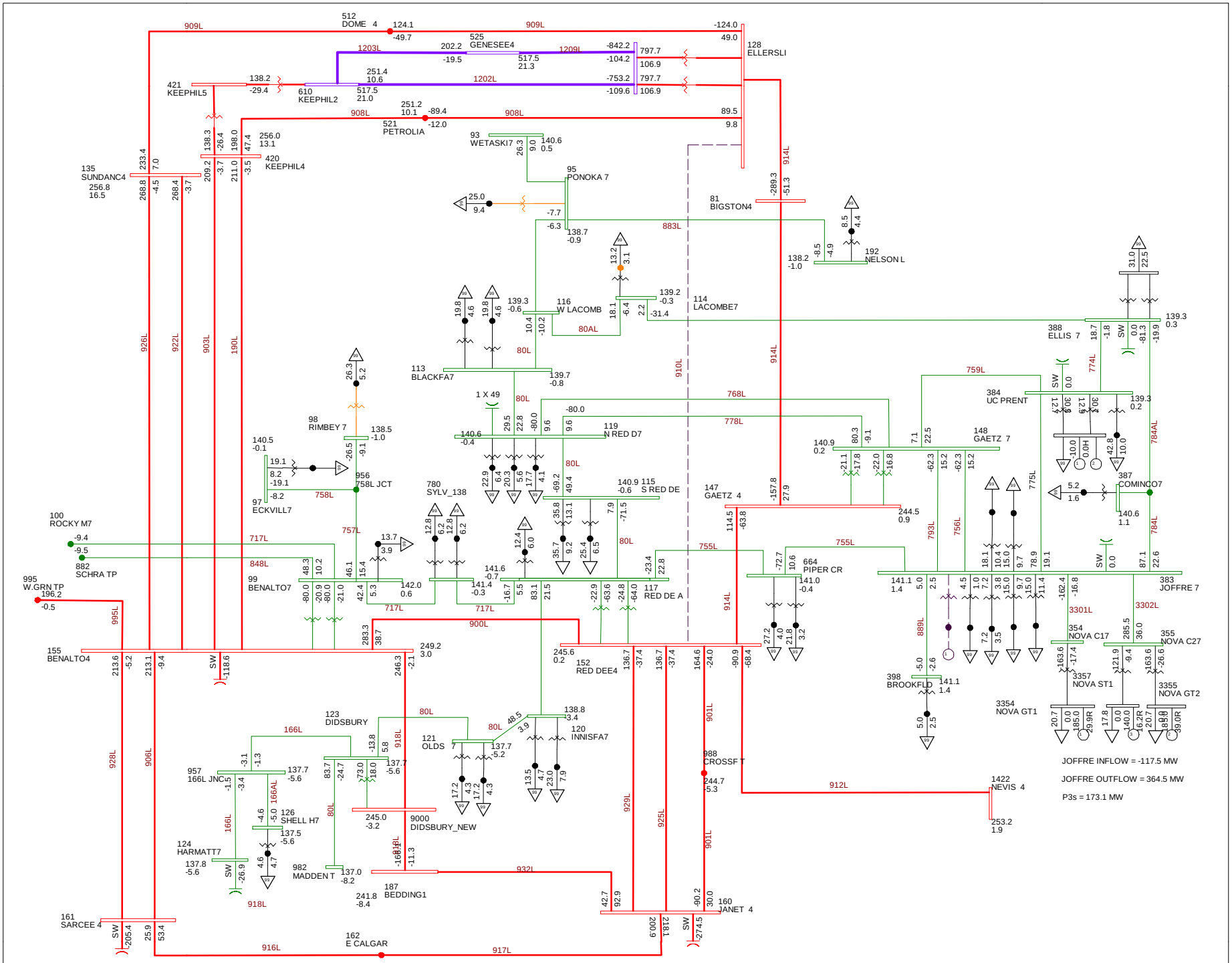
RED DEER REGION STUDY

2012 WINTER PEAK BASE CASE REVISION 6.5

FIG 2012-ALT1-LOAD-WP-7
240KV 914L (BIGSTONE 86S TO GAETZ 87S) OUTAGE
TUE, MAR 01 2011 15:35

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
100.0%RATE
KV: <=1.000 <=34.500 <=138.000 <=500.000
1.050UV <=72.000 <=240.000 >500.000
0.900UV

D-2012-15



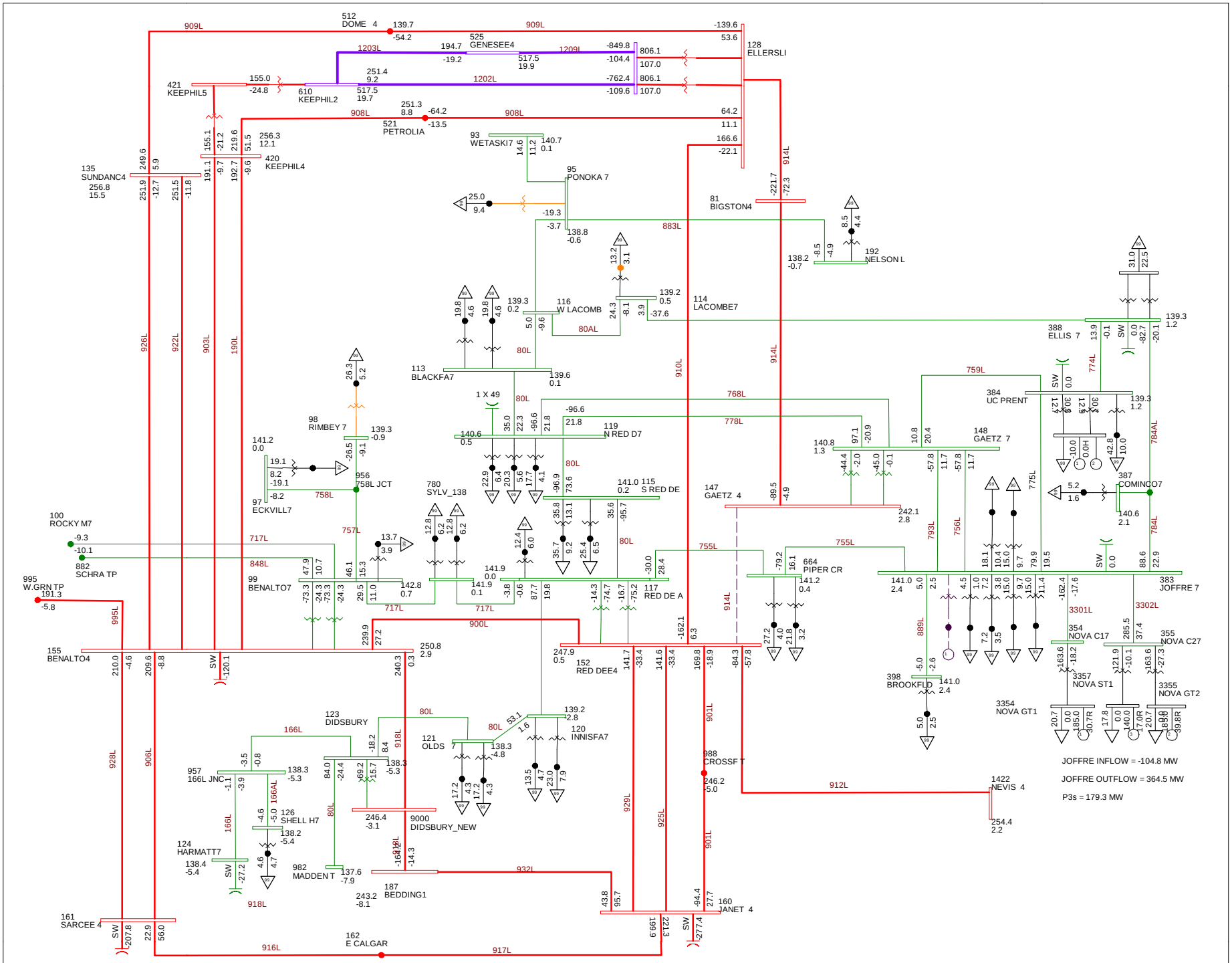
RED DEER REGION STUDY

2012 WINTER PEAK BASE CASE REVISION 6.5

FIG 2012-ALT1-LOAD-WP-8
240KV 910L (ELLERSLIE 89S TO RED DEER 63S) OUTAGE
TUE, MAR 01 2011 15:35

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
100.0%RATE
KV: <=1.000 <=34.500 <=138.000 <=500.000
1.050UV <=72.000 <=240.000 >500.000
0.900UV

D-2012-16



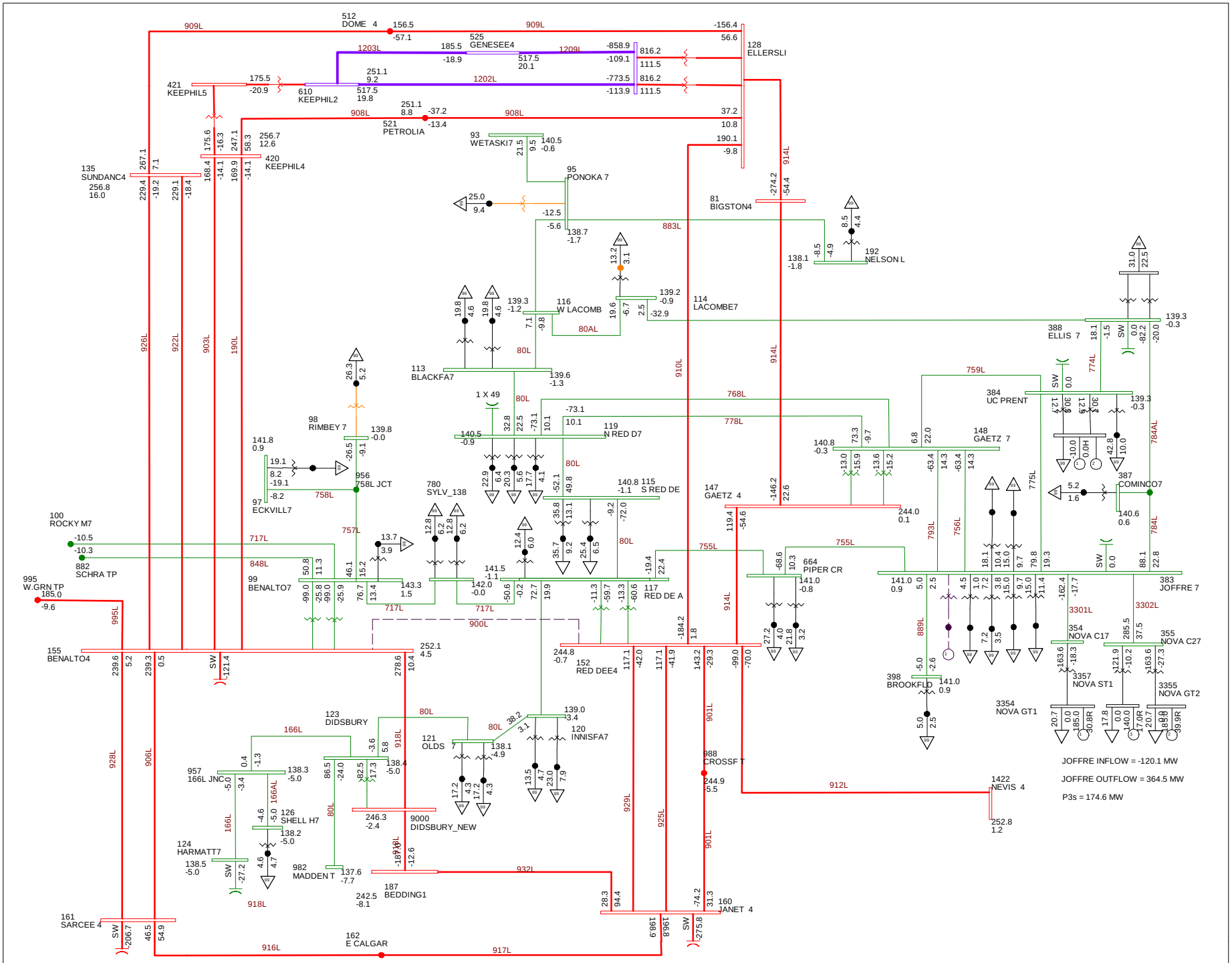
RED DEER REGION STUDY

2012 WINTER PEAK BASE CASE REVISION 6.5

FIG 2012-ALT1-LOAD-WP-9
240KV 914L (GAETZ 87S TO RED DEER 63S) OUTAGE
TUE, MAR 01 2011 15:35

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
100.0%RATE
KV: <=1.000 <=34.500 <=138.000 <=500.000
1.050OV <=72.000 <=240.000 >500.000
0.900UV

D-2012-17



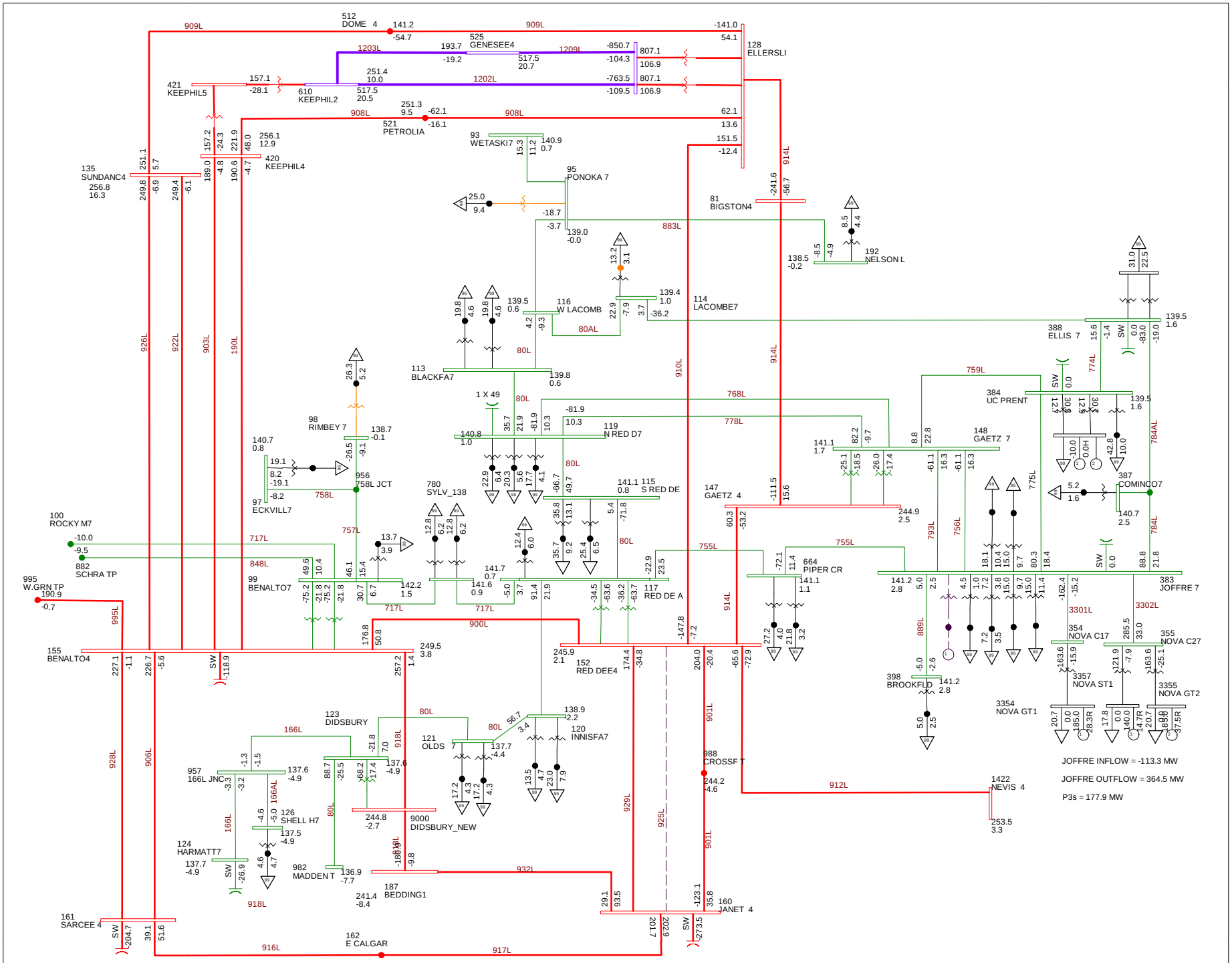
RED DEER REGION STUDY

2012 WINTER PEAK BASE CASE REVISION 6.5

FIG 2012-ALT1-LOAD-WP-10
240KV 900L (RED DEER 63S TO BENALTO 17S) OUTAGE
TUE, MAR 01 2011 15:35

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
100.0%RATE
KV: <=1.000 <=34.500 <=138.000 <=500.000
1.050UV <=72.000 <=240.000 >500.000
0.900UV

D-2012-18



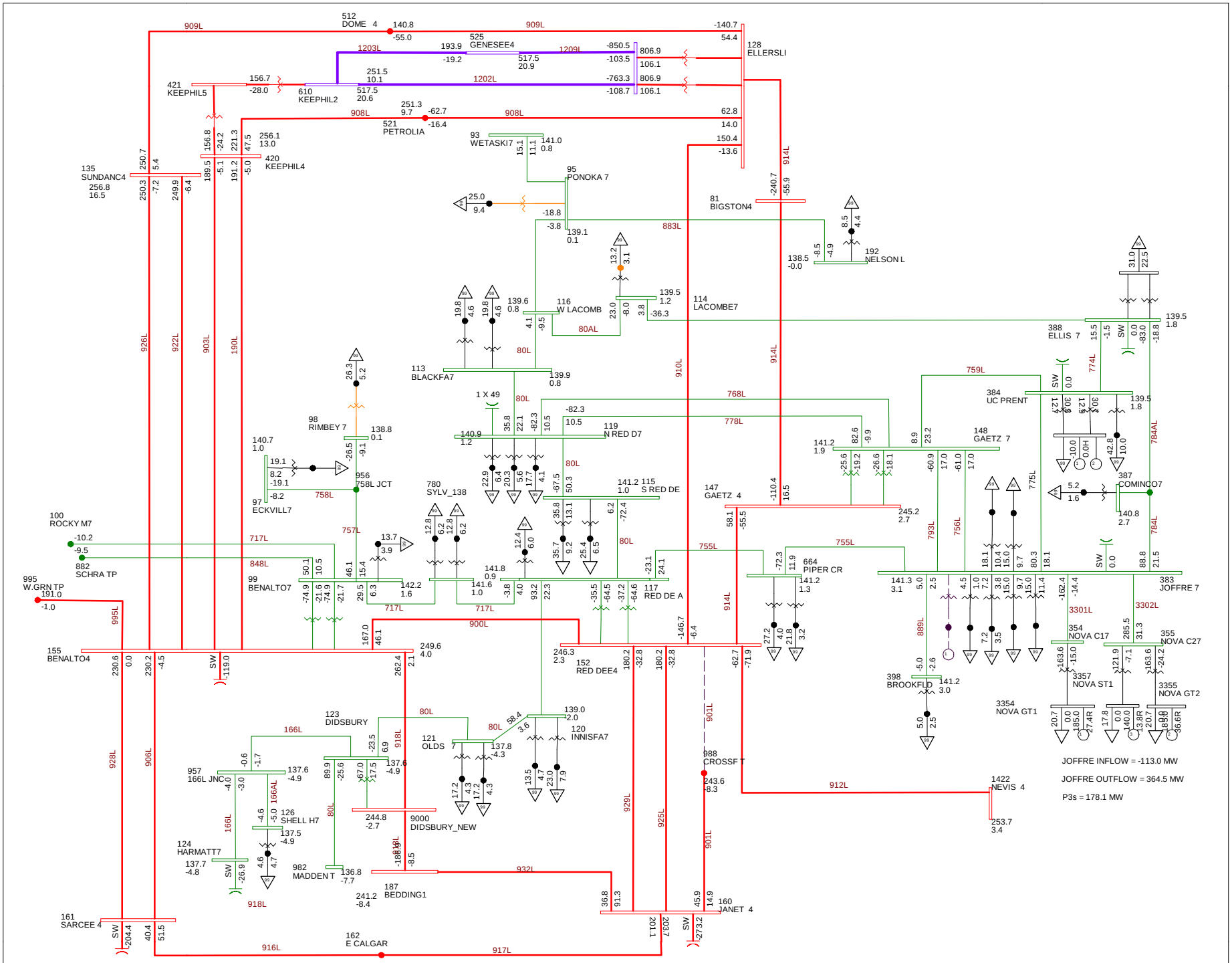
RED DEER REGION STUDY

2012 WINTER PEAK BASE CASE REVISION 6.5

FIG 2012-ALT1-LOAD-WP-11
240KV 929/925L (RED DEER 63S TO JANET 74S) OUTAGE
TUE, MAR 01 2011 15:35

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
100.0%RATE
KV: <=1.000 <=34.500 <=138.000 <=500.000
1.050OV <=72.000 <=240.000 >500.000
0.900UV

D-2012-19



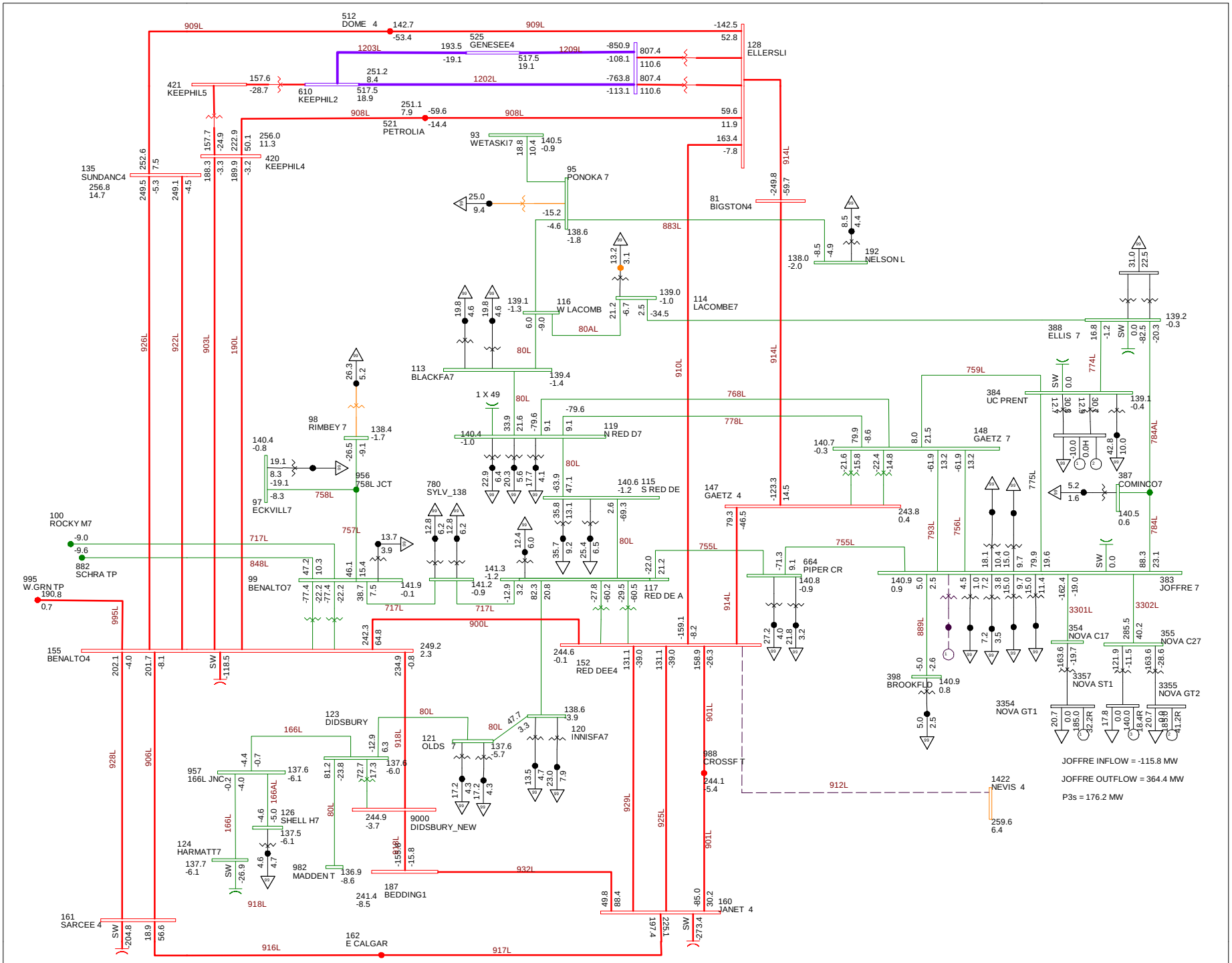
RED DEER REGION STUDY

2012 WINTER PEAK BASE CASE REVISION 6.5

FIG 2012-ALT1-LOAD-WP-12
240KV 901L (RED DEER 63S TO CROSSFIELD 64S) OUTAGE
TUE, MAR 01 2011 15:35

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
100.0%RATEB
KV: <=1.000 <=34.500 <=138.000 <=500.000
1.050OV <=72.000 <=240.000 >500.000
0.900UV

D-2012-20



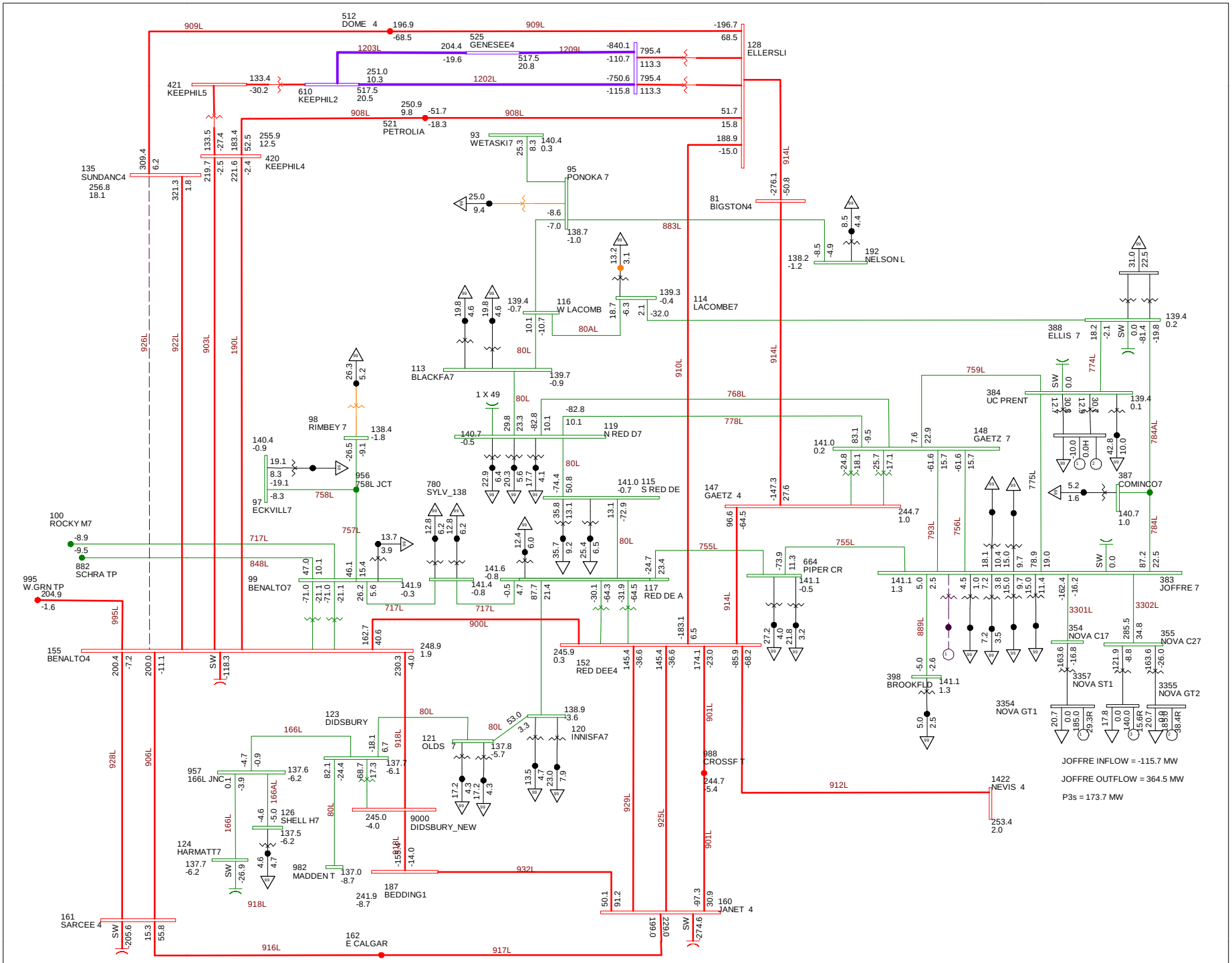
RED DEER REGION STUDY

2012 WINTER PEAK BASE CASE REVISION 6.5

FIG 2012-ALT1-LOAD-WP-13
240KV 912L (RED DEER 63S TO NEVIS 766S) OUTAGE
TUE, MAR 01 2011 15:35

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
100.0%RATE
KV: <=1.000 <=34.500 <=138.000 <=500.000
1.050UV <=72.000 <=240.000 >500.000
0.900UV

D-2012-21



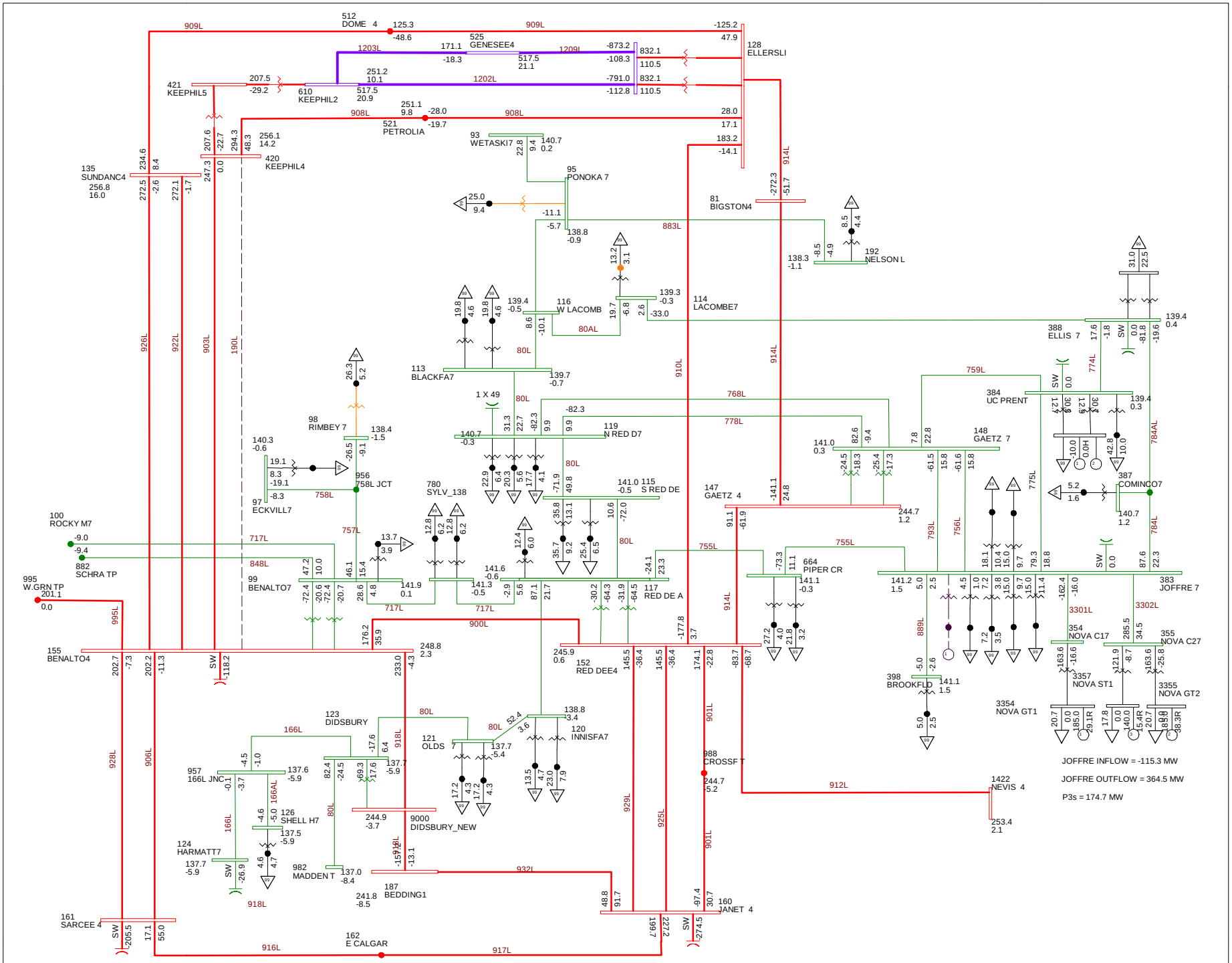
RED DEER REGION STUDY

2012 WINTER PEAK BASE CASE REVISION 6.5

FIG 2012-ALT1-LOAD-WP-14
240 KV 926/922L (SUNDANCE 310P TO BENALTO 17S) OUTAGE
TUE, MAR 01 2011 15:35

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
100.0%RATE
KV: <=1.000 | <=34.500 | <=138.000 | <=500.000
1.050UV | <=72.000 | <=240.000 | >500.000
0.900UV

D-2012-22



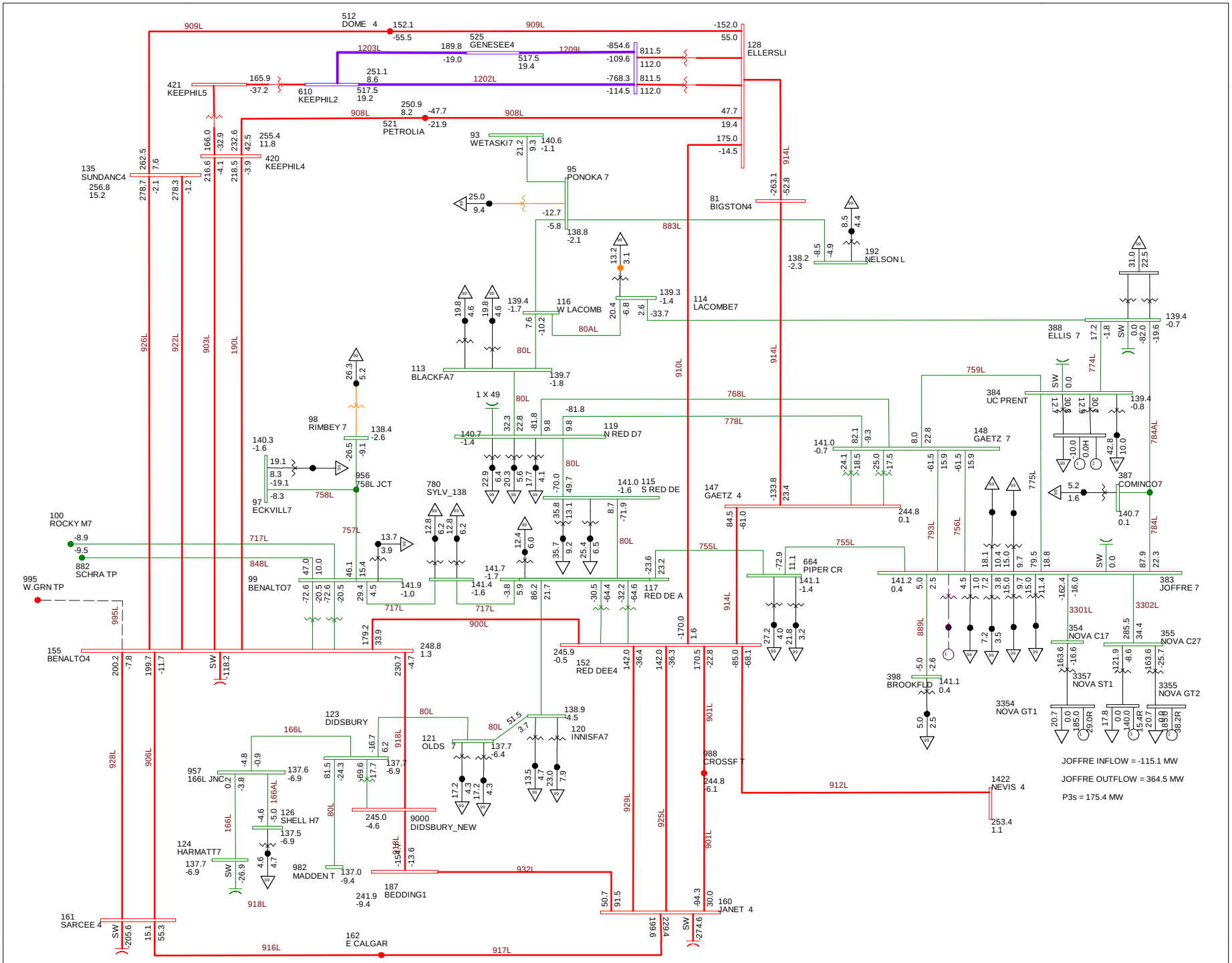
RED DEER REGION STUDY

2012 WINTER PEAK BASE CASE REVISION 6.5

FIG 2012-ALT1-LOAD-WP-15
240KV 190/903L (KEEPHILLS 320P TO BENALTO 17S) OUTAGE
TUE, MAR 01 2011 15:35

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
100.0%RATE
KV: <=1.000 <=34.500 <=138.000 <=500.000
1.050OV <=72.000 <=240.000 >500.000
0.900UV

D-2012-23



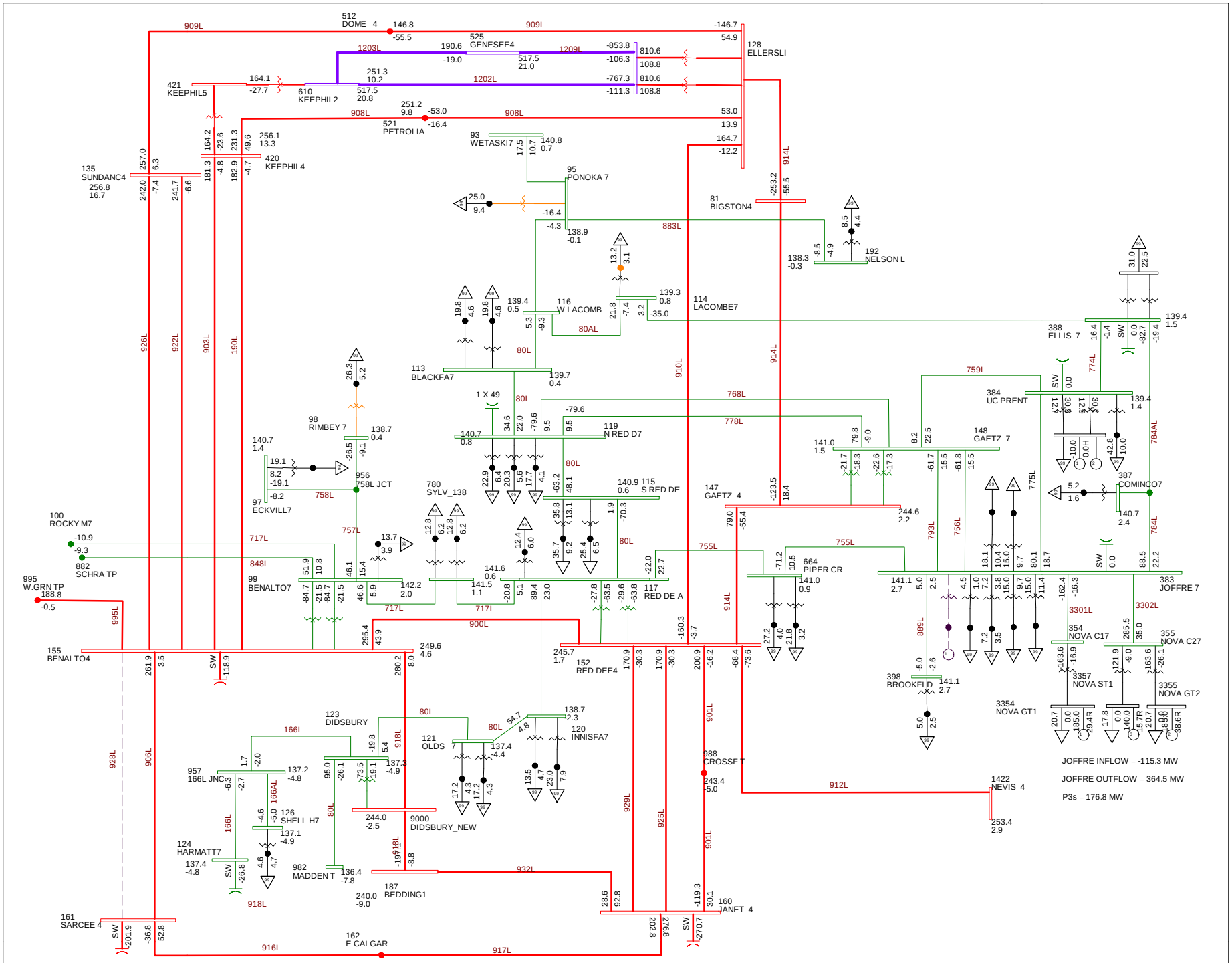
RED DEER REGION STUDY

2012 WINTER PEAK BASE CASE REVISION 6.5

FIG 2012-ALT1-LOAD-WP-16
240 KV 995L (AMOCO WILLESDEN GREEN 68S TO BENALTO 17S) OUTAG
TUE, MAR 01 2011 15:35

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
100.0%RATE
KV: <=1.000 <=34.500 <=138.000 <=500.000
1.050OV <=72.000 <=240.000 >500.000
0.900UV

D-2012-24



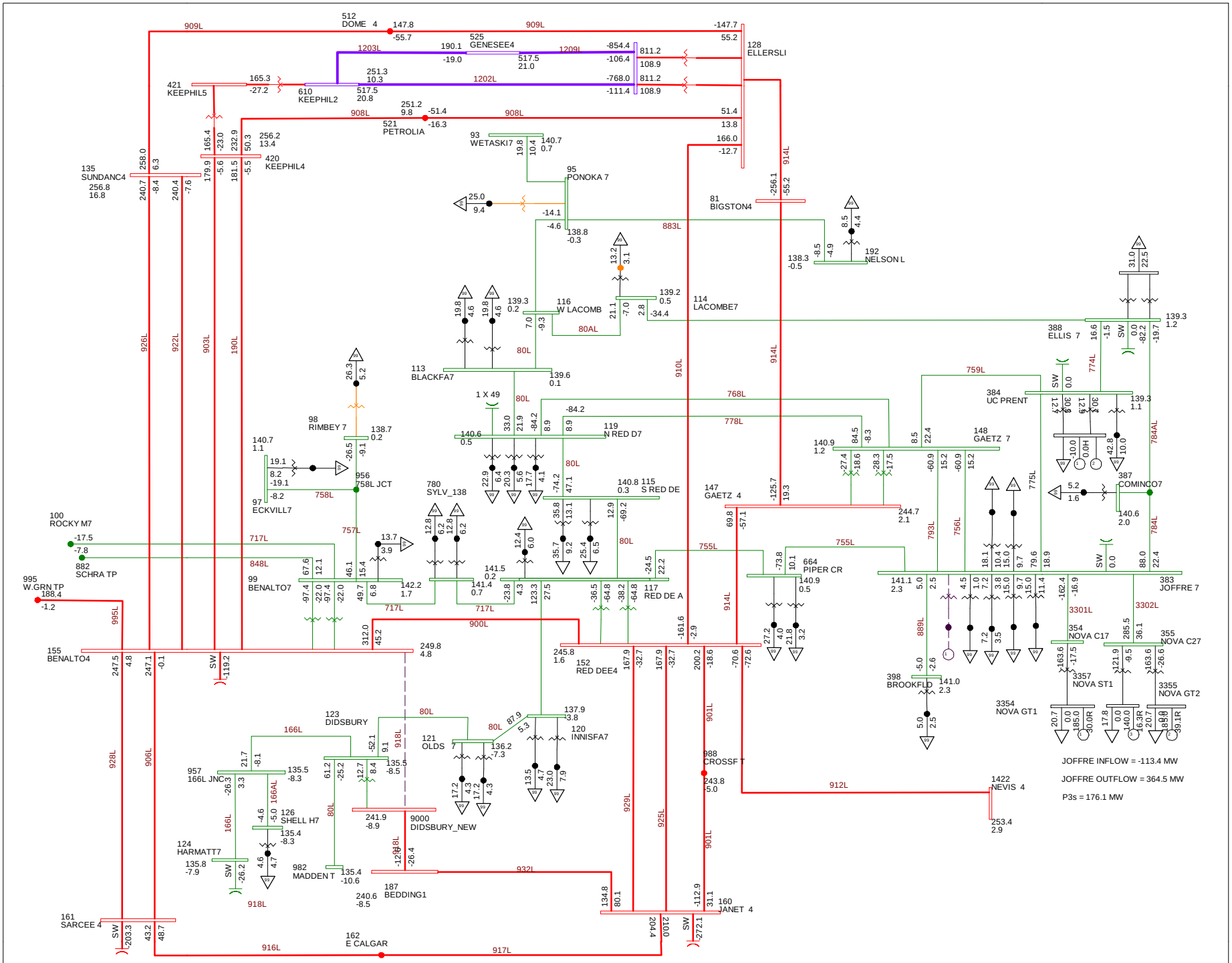
RED DEER REGION STUDY

2012 WINTER PEAK BASE CASE REVISION 6.5

FIG 2012-ALT1-LOAD-WP-17
240 KV 906/928L (BENALTO 17S TO SARCEE 42S) OUTAGE
TUE, MAR 01 2011 15:35

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
100.0%RATE
KV: <=1.000 <=34.500 <=138.000 <=500.000
1.050OV <=72.000 <=240.000 >500.000
0.900UV

D-2012-25



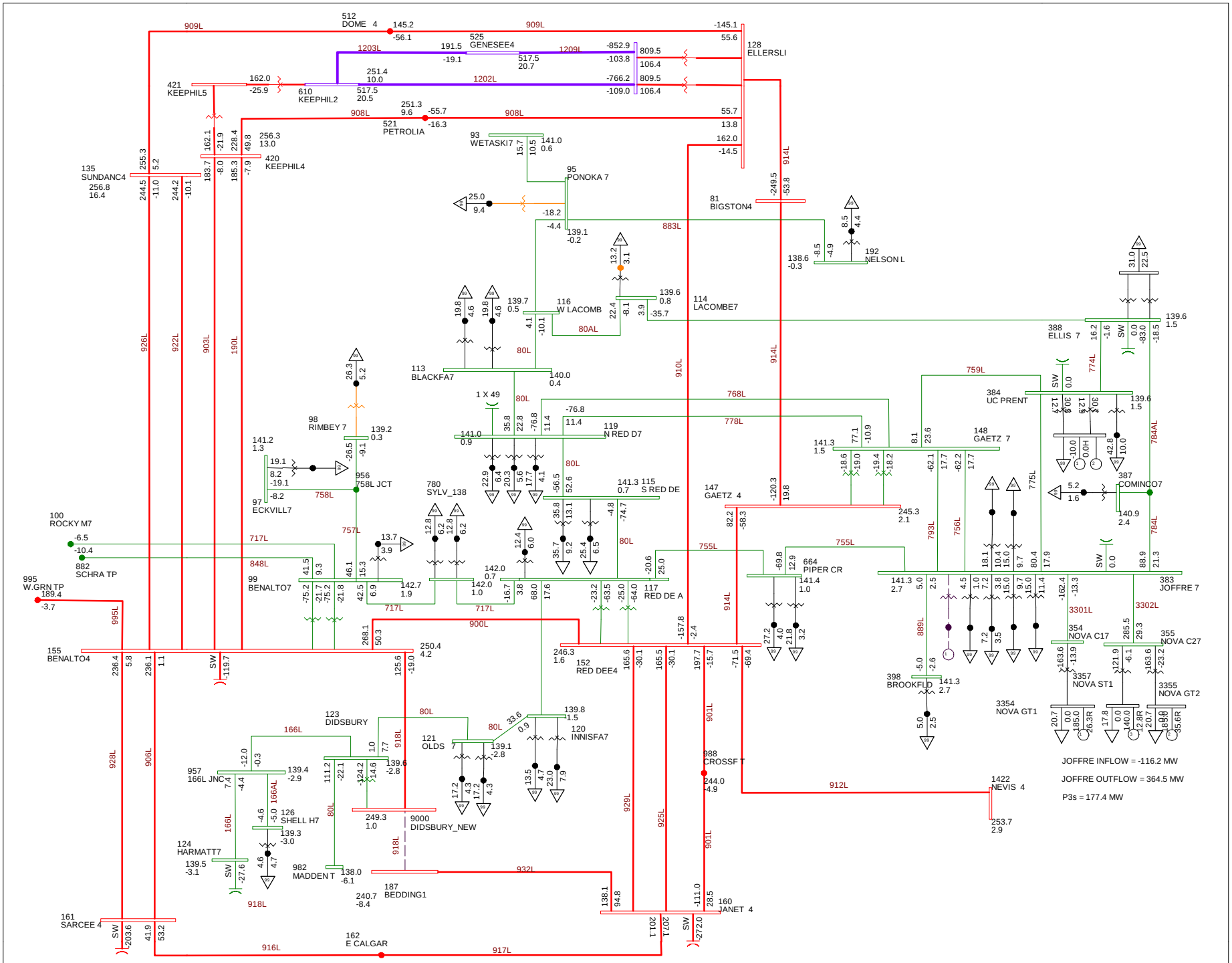
RED DEER REGION STUDY

2012 WINTER PEAK BASE CASE REVISION 6.5

FIG 2012-ALT1-LOAD-WP-18
240 KV 918L (BENALTO 17S TO DIDSBURY SUB. (152S)) OUTAGE
TUE, MAR 01 2011 15:35

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
100.0%RATE
KV: <=1.000 <=34.500 <=138.000 <=500.000
1.050UV <=72.000 <=240.000 >500.000
0.900UV

D-2012-26



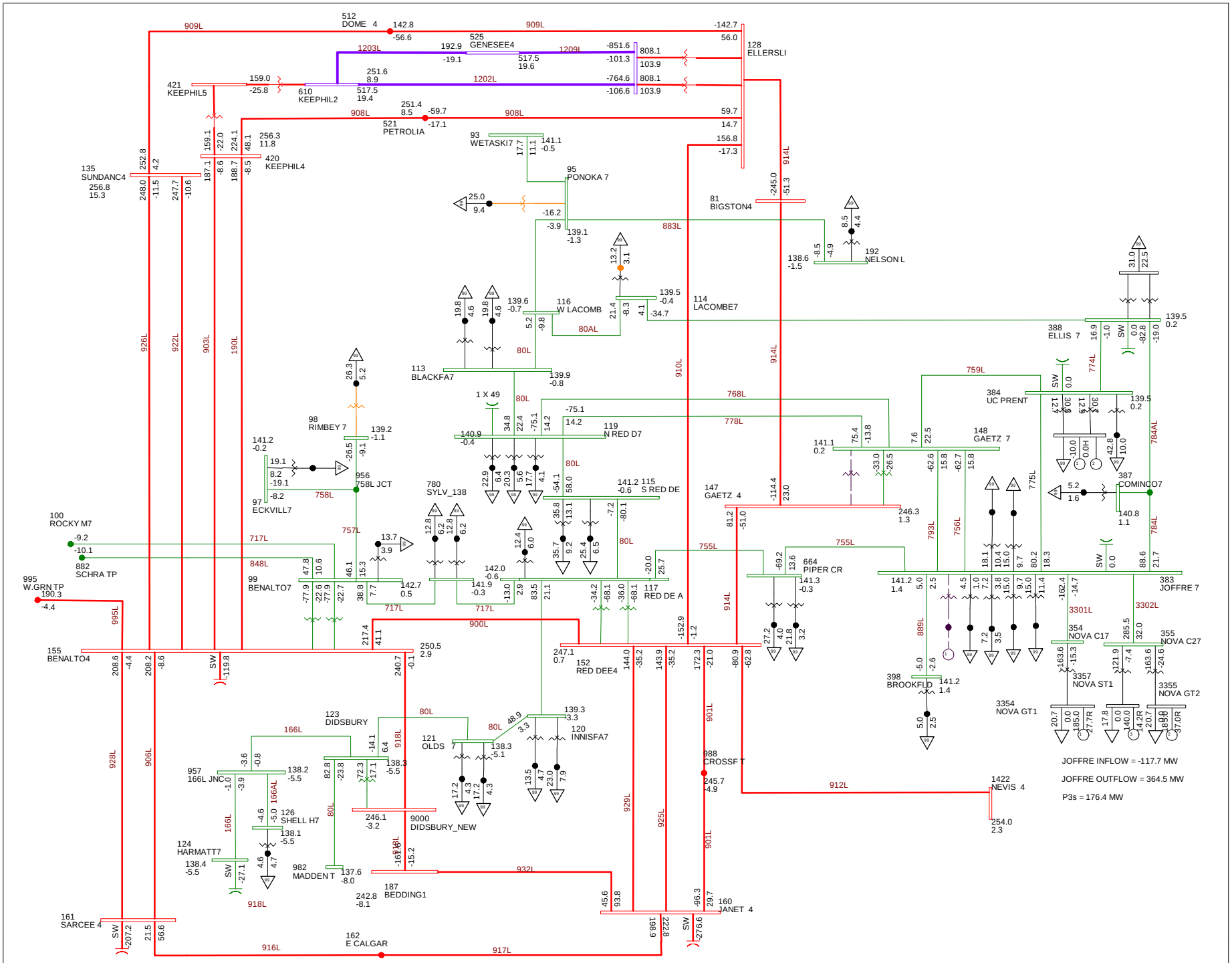
RED DEER REGION STUDY

2012 WINTER PEAK BASE CASE REVISION 6.5

FIG 2012-ALT1-LOAD-WP-19
240 KV 918L (DIDSBURY SUB. (152S) TO BEDDINGTON 162S) OUTAGE
TUE, MAR 01 2011 15:35

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
100.0%RATE
KV: <=1.000 <=34.500 <=138.000 <=500.000
1.050UV <=72.000 <=240.000 >500.000
0.900UV

D-2012-27



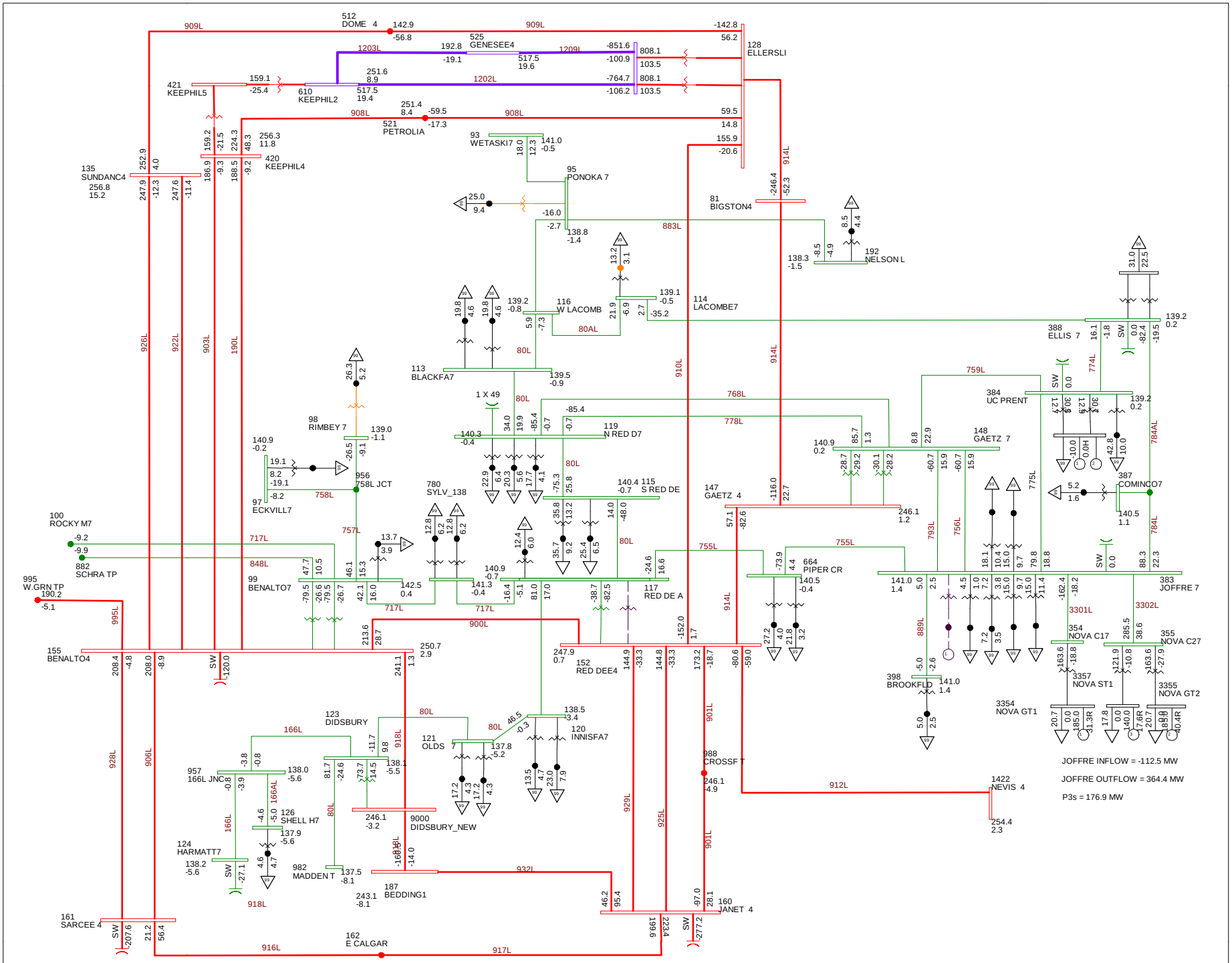
RED DEER REGION STUDY

2012 WINTER PEAK BASE CASE REVISION 6.5

FIG 2012-ALT1-LOAD-WP-20
240/138KV TRANSFORMER AT GAETZ 87S OUTAGE
TUE, MAR 01 2011 15:35

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
100.0%RATE
KV: <=1.000 1.050UV 0.900UV
<=34.500 <=72.000
<=138.000 <=240.000
<=500.000 >500.000

D-2012-28



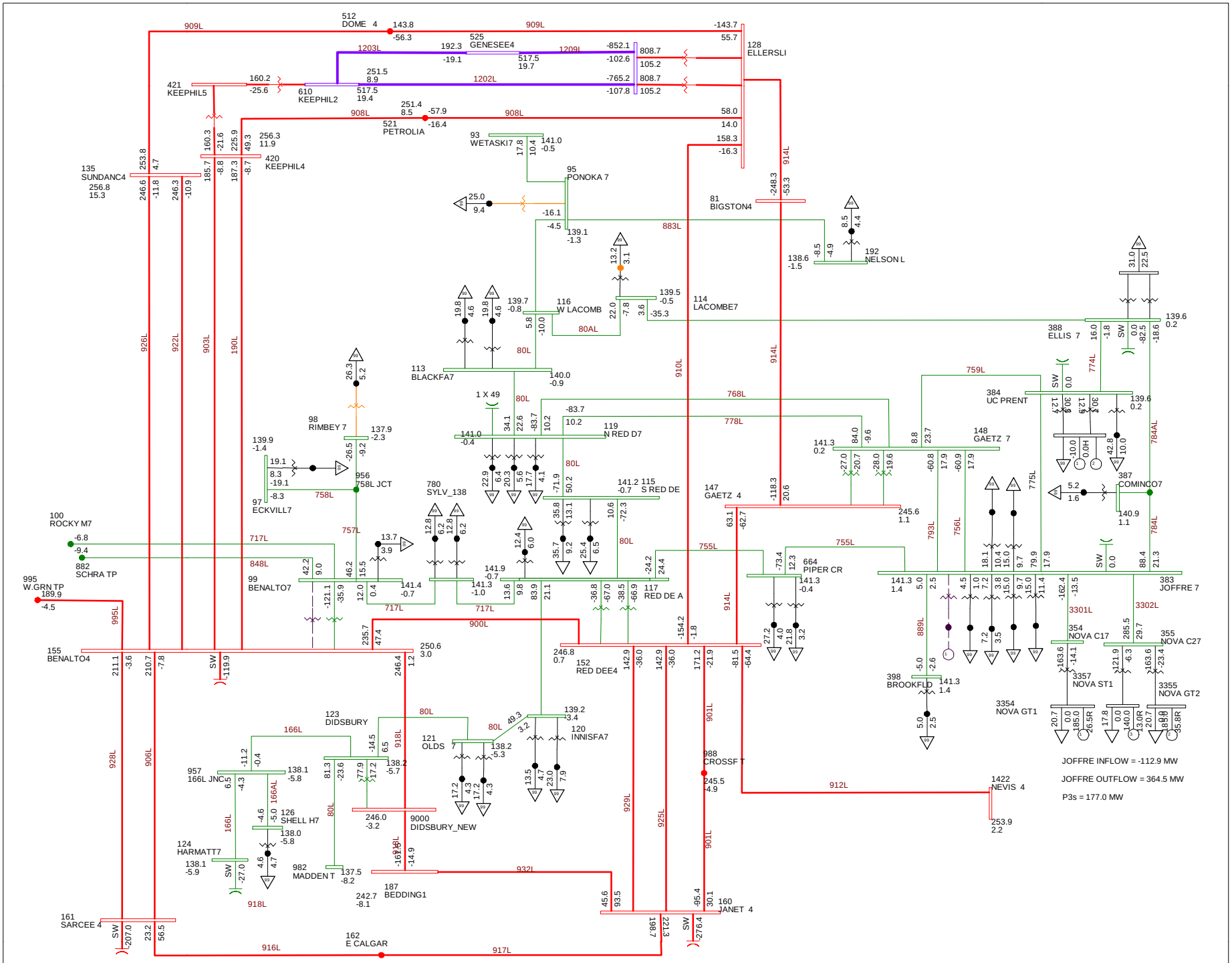
RED DEER REGION STUDY

2012 WINTER PEAK BASE CASE REVISION 6.5

FIG 2012-ALT1-LOAD-WP-21
240/138KV TRANSFORMER AT RED DEER 63S OUTAGE
TUE, MAR 01 2011 15:35

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
100.0%RATE
KV: <=1.000 <=34.500 <=138.000 <=500.000
1.050OV <=72.000 <=240.000 >500.000
0.900UV

D-2012-29



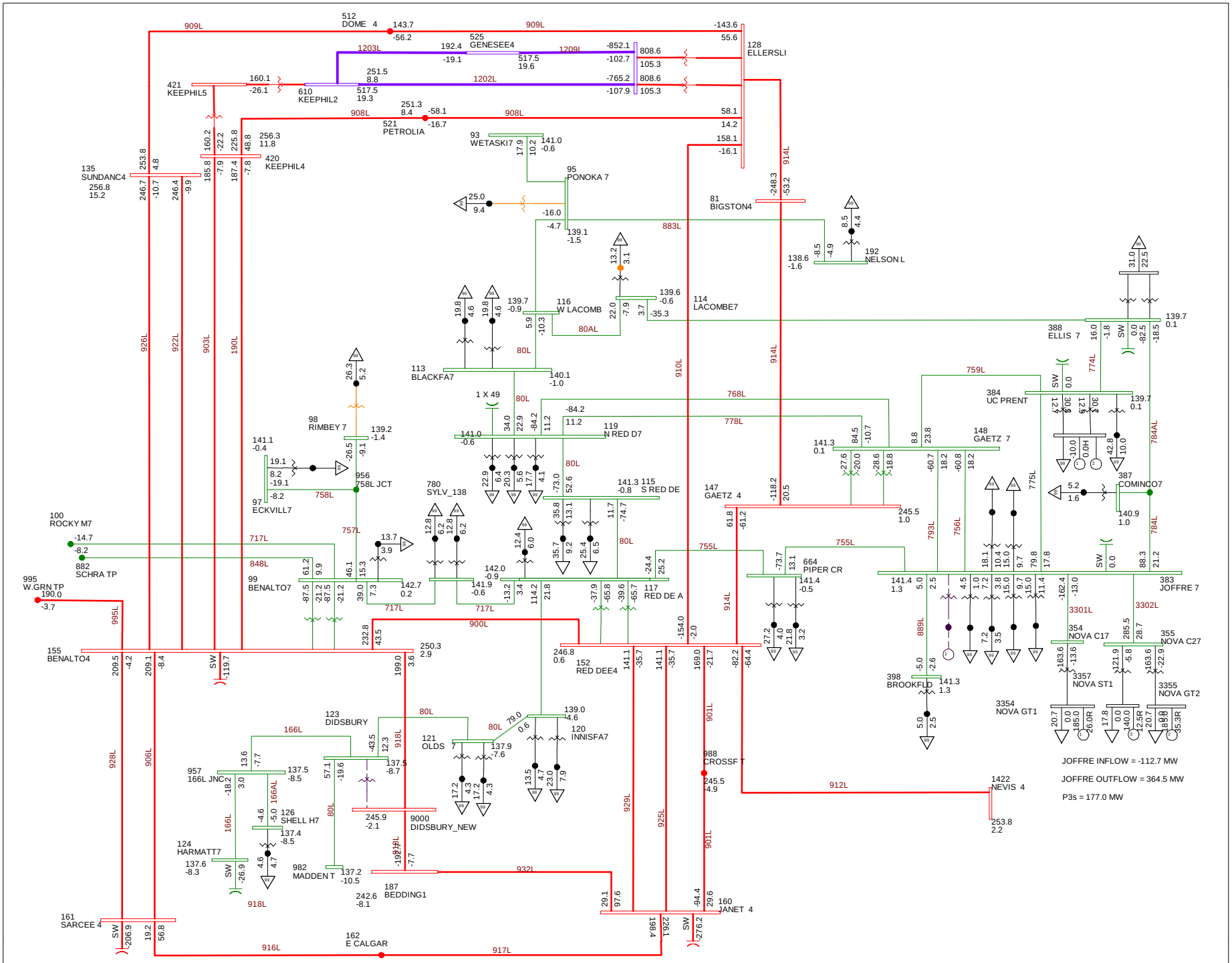
RED DEER REGION STUDY

2012 WINTER PEAK BASE CASE REVISION 6.5

FIG 2012-ALT1-LOAD-WP-22
240/138KV TRANSFORMER AT BENALTO 17S OUTAGE
TUE, MAR 01 2011 15:35

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
100.0%RATEB
KV: <=1.000 | <=34.500 | <=138.000 | <=500.000
1.050OV | <=72.000 | <=240.000 | >500.000
0.900UV

D-2012-30



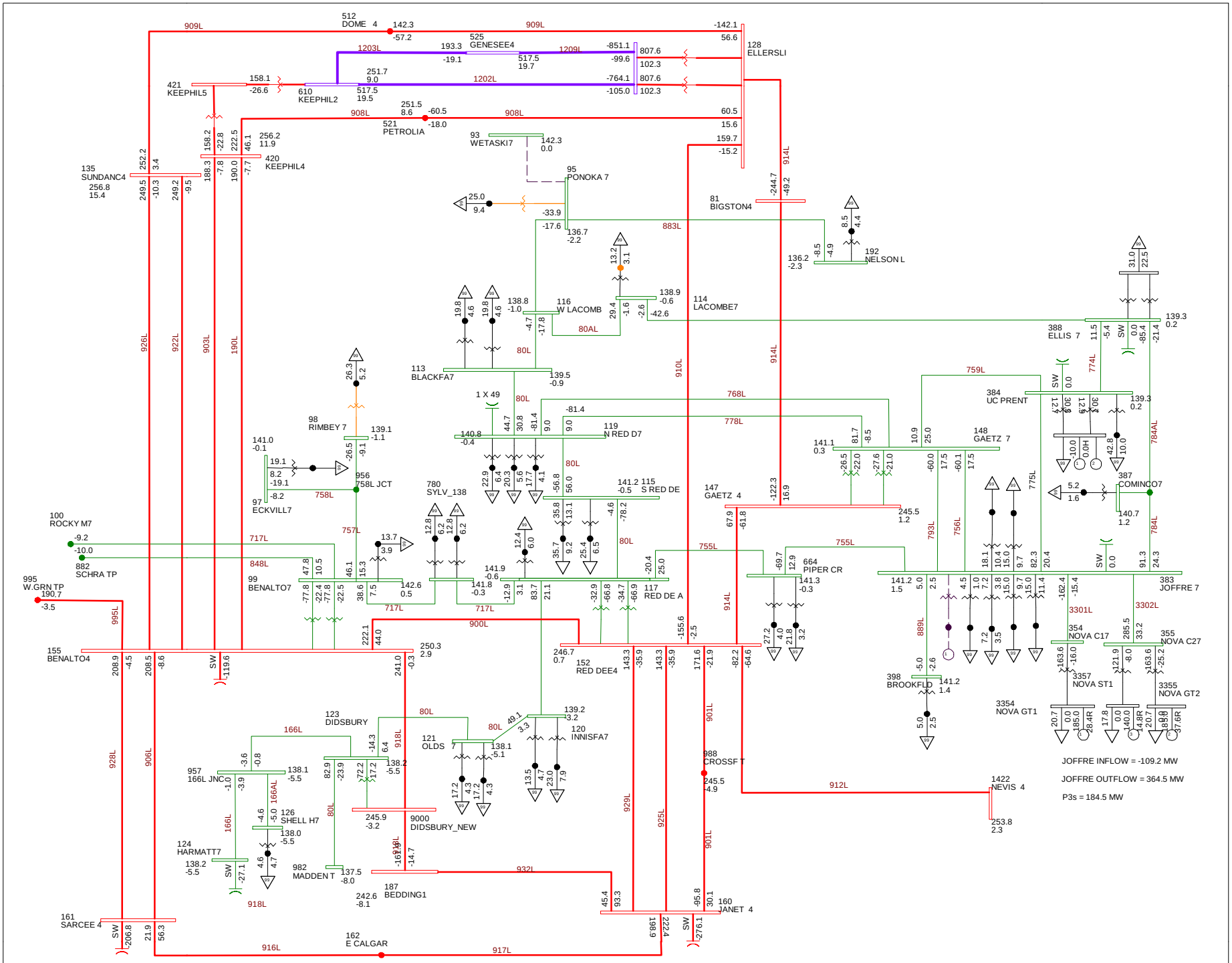
RED DEER REGION STUDY

2012 WINTER PEAK BASE CASE REVISION 6.5

FIG 2012-ALT1-LOAD-WP-23
240/138KV TRANSFORMER AT DIDSBURY SUB. (152S) OUTAGE
TUE, MAR 01 2011 15:35

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
100.0%RATE
KV: <=1.000 <=34.500 <=138.000 <=500.000
1.050UV <=72.000 <=240.000 >500.000
0.900UV

D-2012-31



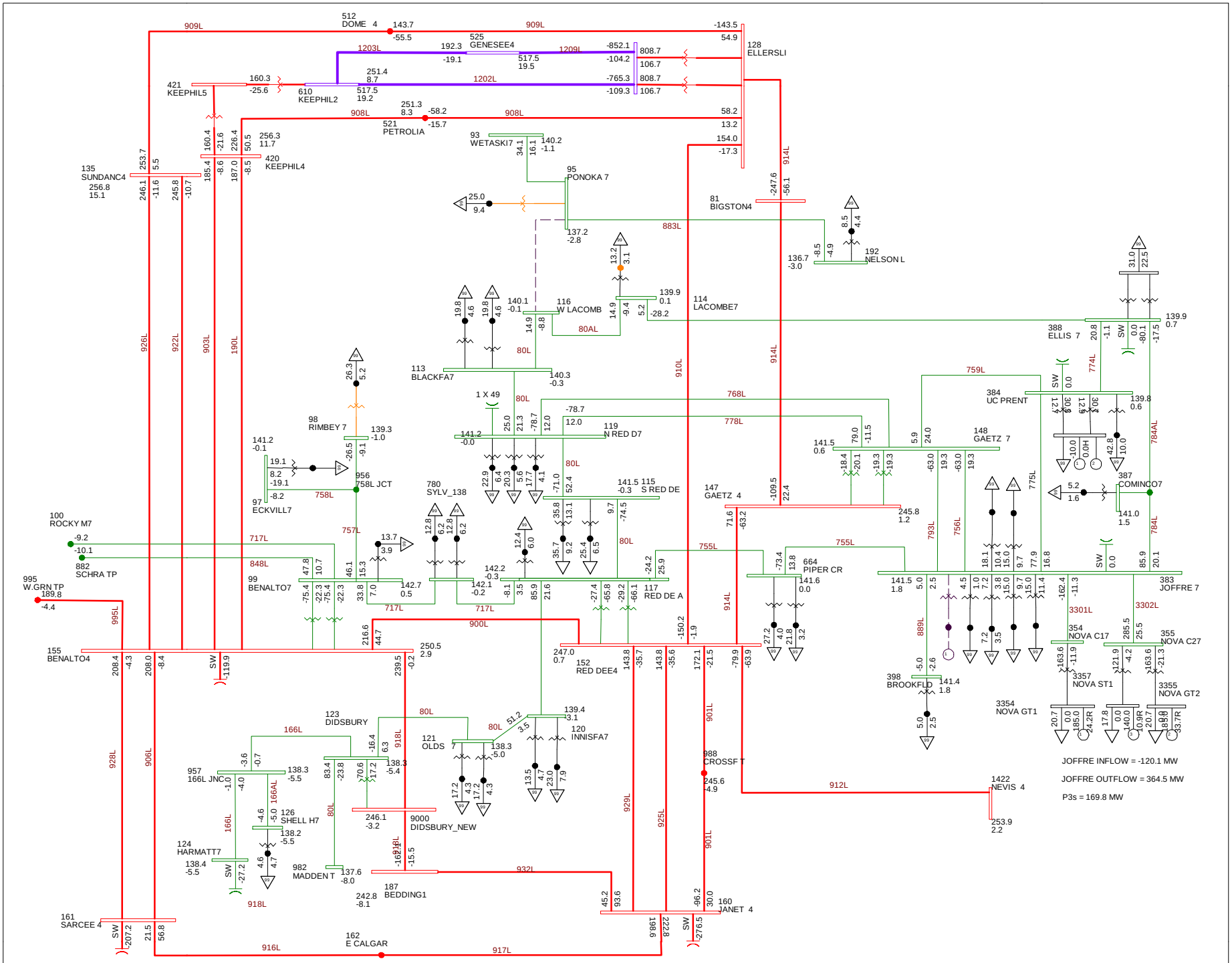
RED DEER REGION STUDY

2012 WINTER PEAK BASE CASE REVISION 6.5

FIG 2012-ALT1-LOAD-WP-24
138 KV 716L (PONOKA 331S TO WETASKIWIN 40S) OUTAGE
TUE, MAR 01 2011 15:35

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
100.0%RATE
KV: <=1.000 <=34.500 <=138.000 <=500.000
1.050UV <=72.000 <=240.000 >500.000
0.900UV

D-2012-32



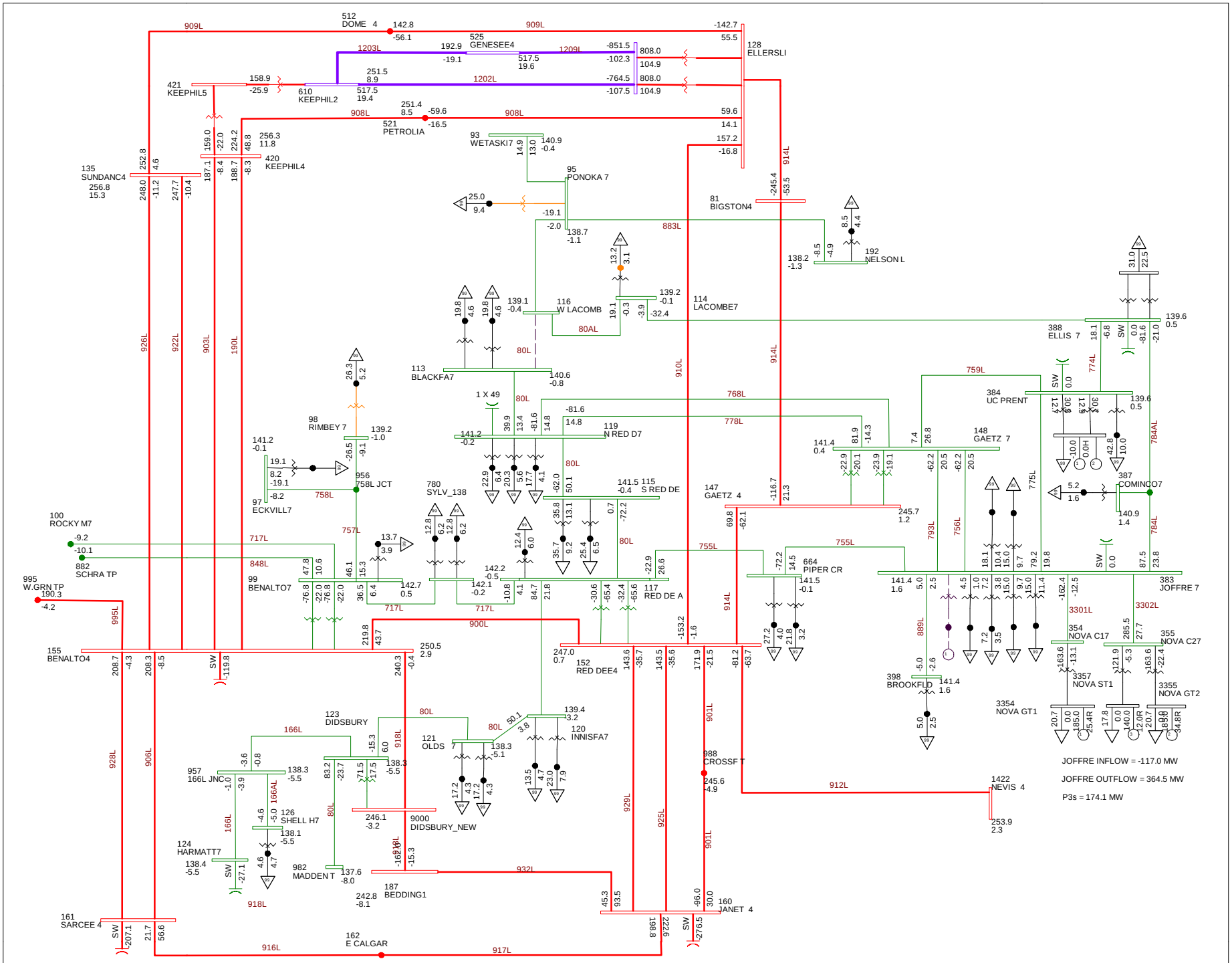
RED DEER REGION STUDY

2012 WINTER PEAK BASE CASE REVISION 6.5

FIG 2012-ALT1-LOAD-WP-25
138 KV 80L (PONOKA 331S TO W. LACOMBE 958S) OUTAGE
TUE, MAR 01 2011 15:35

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
100.0%RATE
KV: <=1.000 <=34.500 <=138.000 <=500.000
1.050UV <=72.000 <=240.000 >500.000
0.900UV

D-2012-33



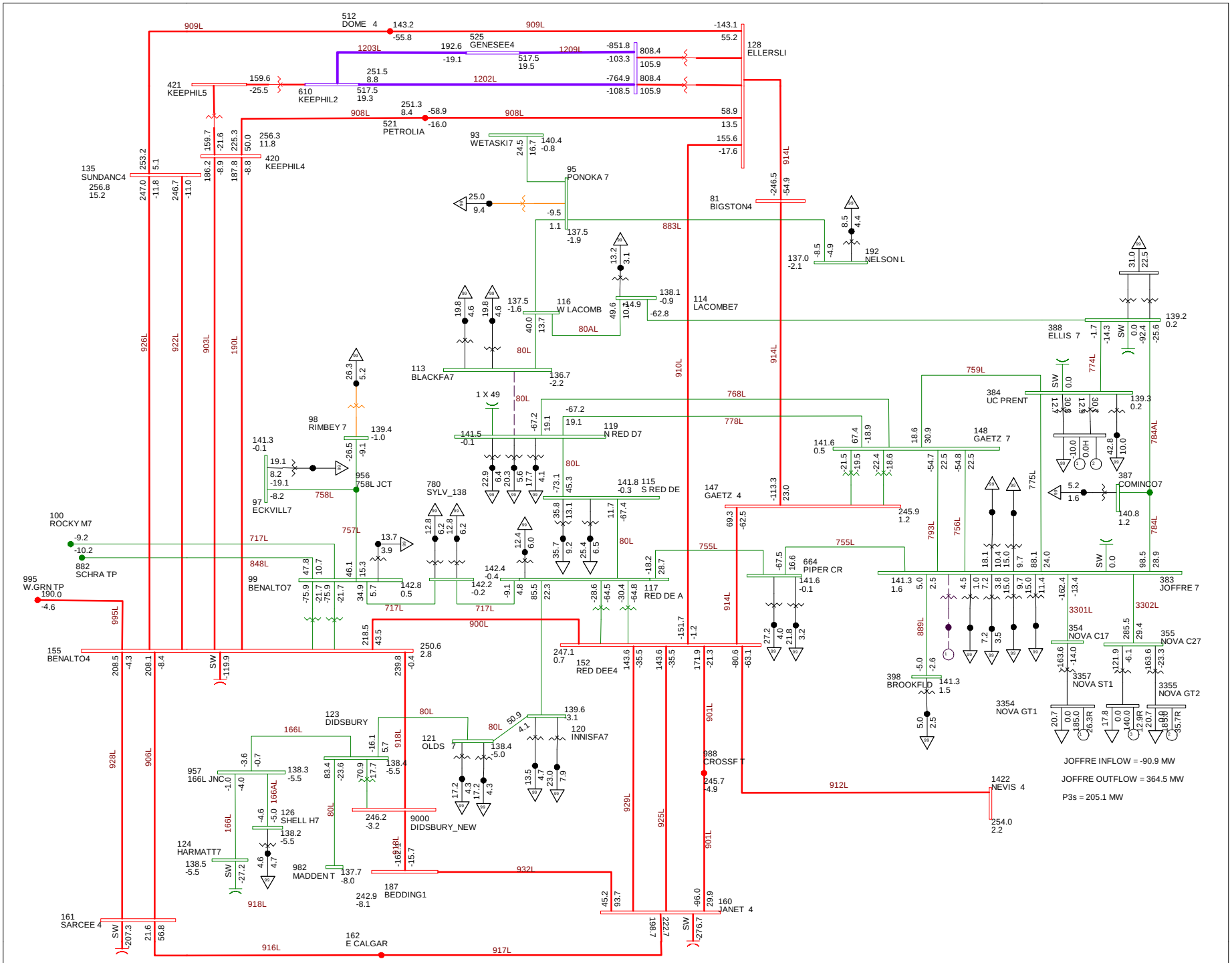
RED DEER REGION STUDY

2012 WINTER PEAK BASE CASE REVISION 6.5

FIG 2012-ALT1-LOAD-WP-26
138 KV 80L (W. LACOMBE 958S TO BLACKFALDS 198S) OUTAGE
TUE, MAR 01 2011 15:35

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
100.0%RATE
KV: <=1.000 <=34.500 <=138.000 <=500.000
1.050UV <=72.000 <=240.000 >500.000
0.900UV

D-2012-34



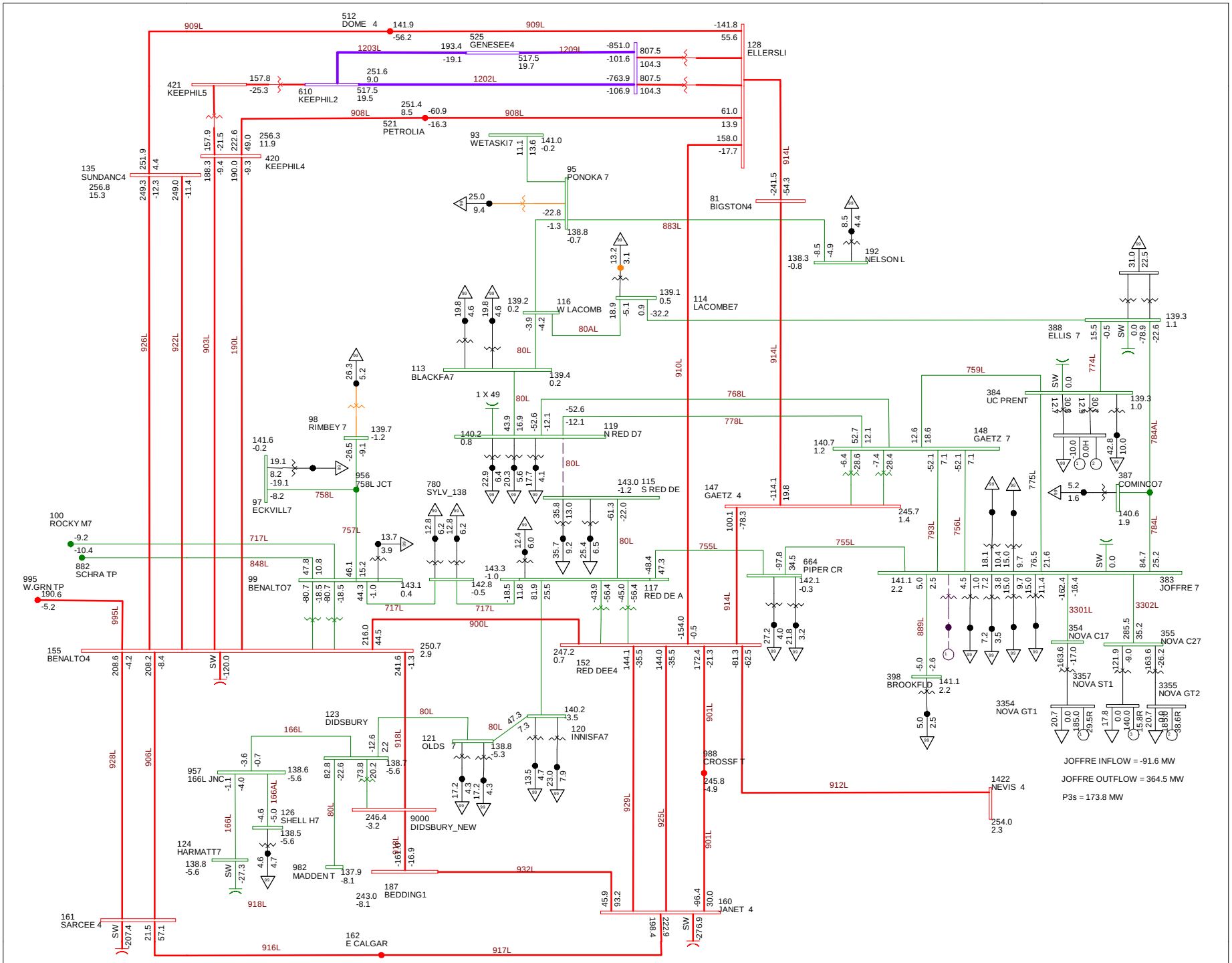
RED DEER REGION STUDY

2012 WINTER PEAK BASE CASE REVISION 6.5

FIG 2012-ALT1-LOAD-WP-27
138 KV 80L (BLACKFALDS 198S TO N. RED DEER 217S) OUTAGE
TUE, MAR 01 2011 15:35

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
100.0%RATE
KV: <=1.000 <=34.500 <=138.000 <=500.000
1.050OV <=72.000 <=240.000 >500.000
0.900UV

D-2012-35



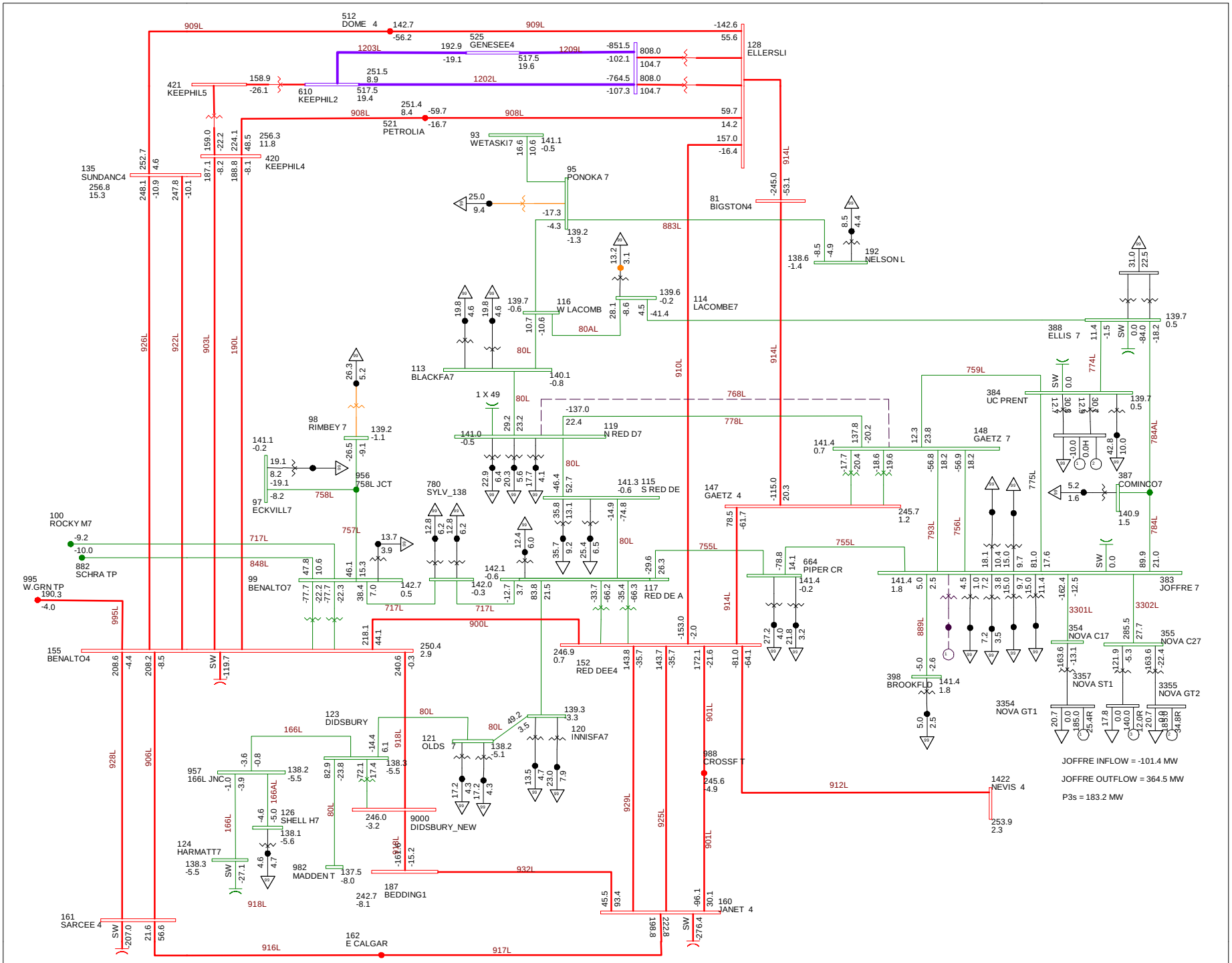
RED DEER REGION STUDY

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FIG 2012-ALT1-LOAD-WP-28
138 KV 80L (N. RED DEER 217S TO S. RED DEER 194S) OUTAGE
TUE, MAR 01 2011 15:35

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
100.0%RATE
KV: <=1.000 <=34.500 <=138.000 <=500.000
1.050UV <=72.000 <=240.000 >500.000
0.900UV

D-2012-36

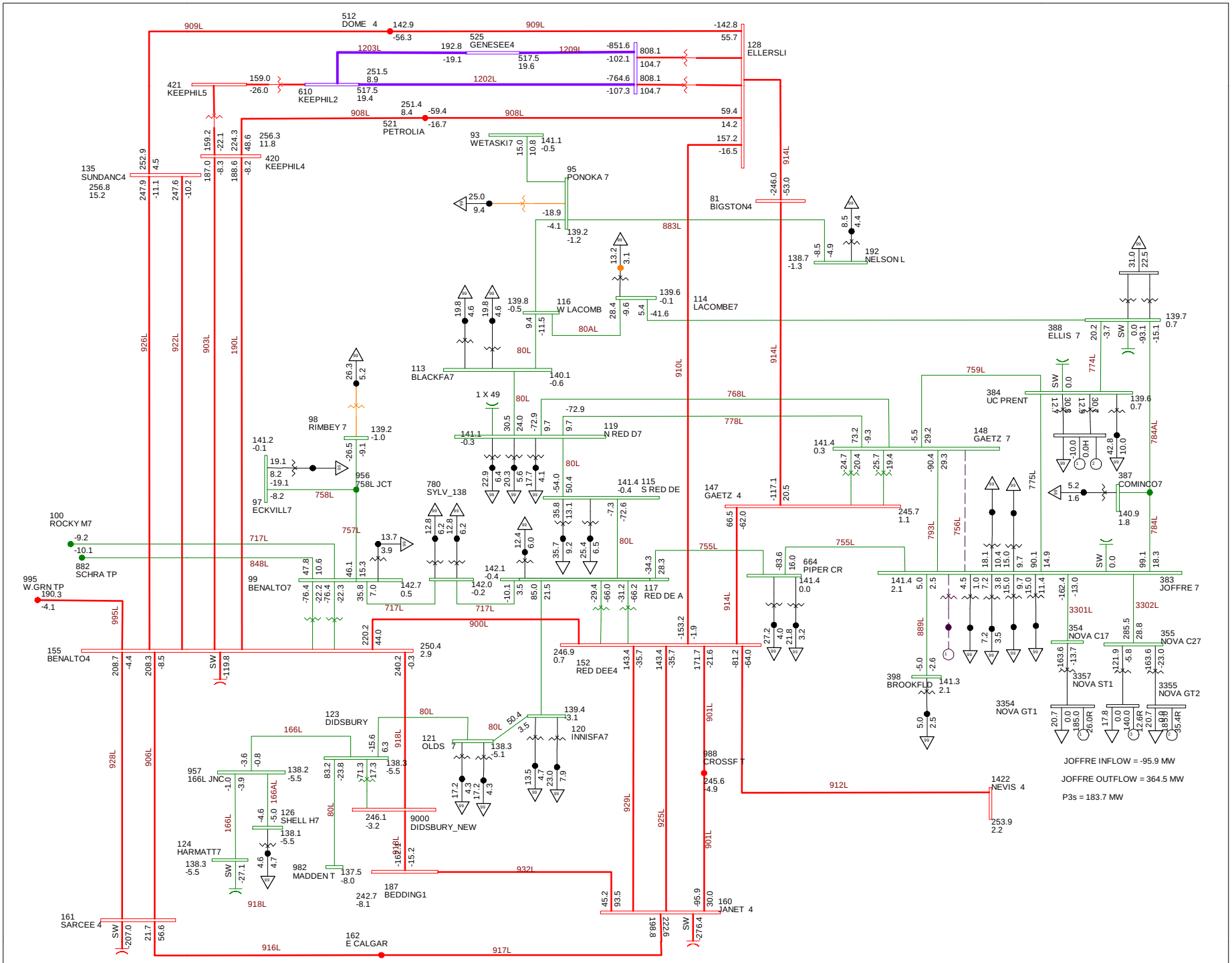


RED DEER REGION STUDY

2012 WINTER PEAK BASE CASE REVISION 6.5

FIG 2012-ALT1-LOAD-WP-29
138 KV 768L (N. RED DEER 217S TO GAETZ 87S) OUTAGE
TUE, MAR 01 2011 15:35

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
100.0%RATE
KV: <=1.000 <=34.500 <=138.000 <=500.000
1.050OV <=72.000 <=240.000 >500.000
0.900UV



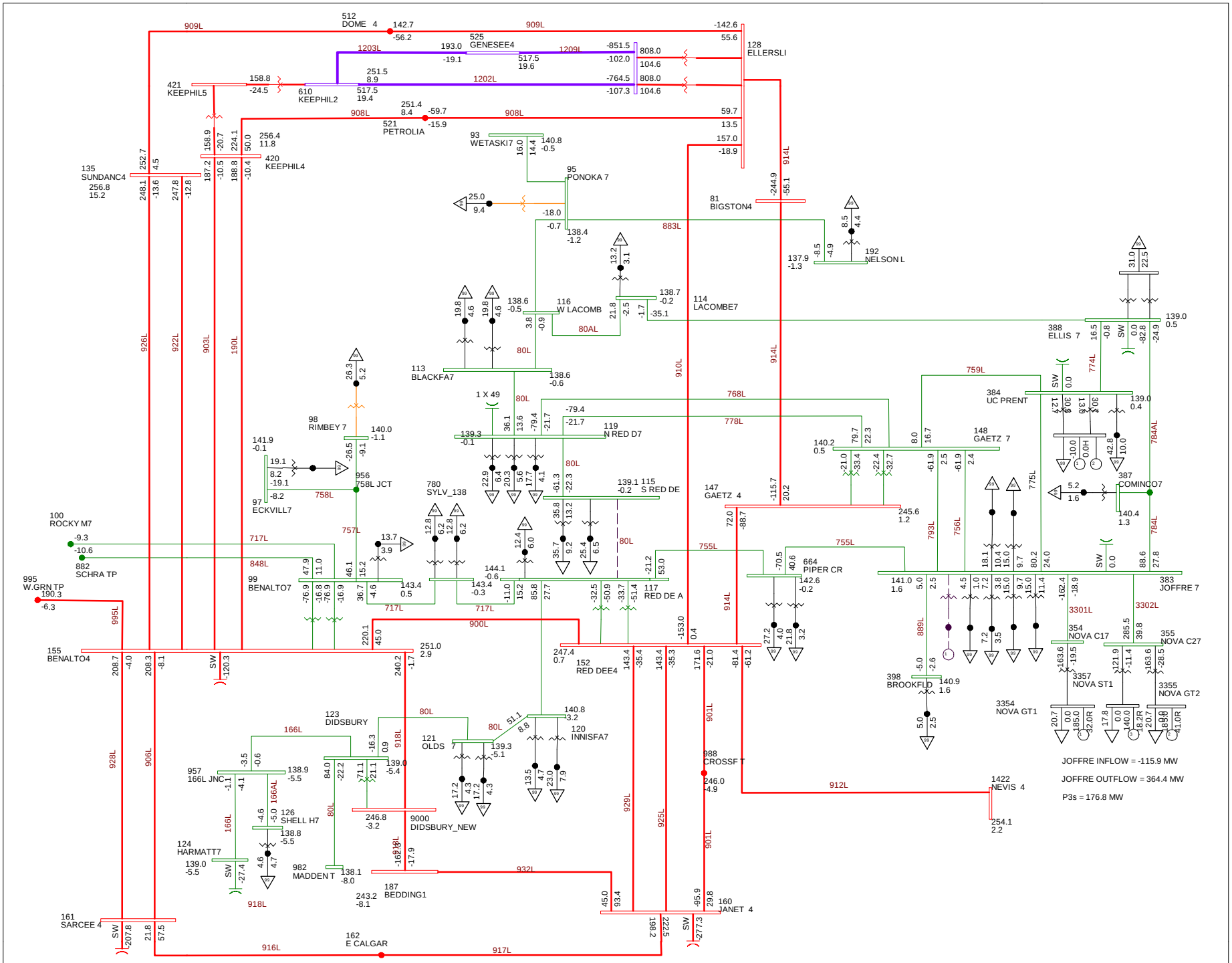
RED DEER REGION STUDY

2012 WINTER PEAK BASE CASE REVISION 6.5

FIG 2012-ALT1-LOAD-WP-30
138 KV 793/756L (GAETZ 87S TO JOFFRE 535S) OUTAGE
TUE, MAR 01 2011 15:35

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
100.0%RATE
KV: <=1.000 <=34.500 <=138.000 <=500.000
1.050UV <=72.000 <=240.000 >500.000
0.900UV

D-2012-38

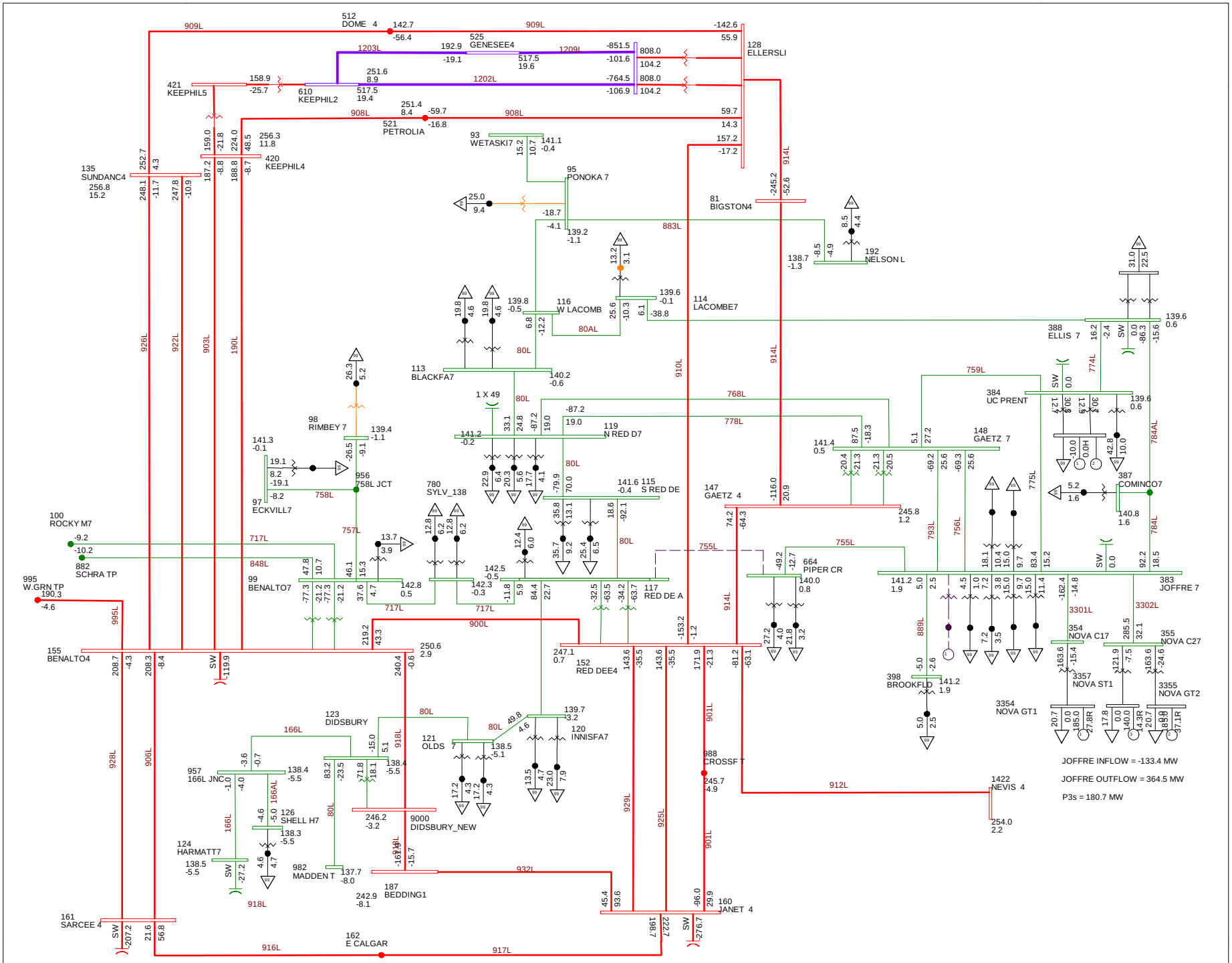


RED DEER REGION STUDY

2012 WINTER PEAK BASE CASE REVISION 6.5

FIG 2012-ALT1-LOAD-WP-31
138 KV 80L (S. RED DEER 194S TO RED DEER 63S) OUTAGE
TUE, MAR 01 2011 15:35

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
100.0%RATE
KV: <=1.000 <=34.500 <=138.000 <=500.000
1.050UV <=72.000 <=240.000 >500.000
0.900UV



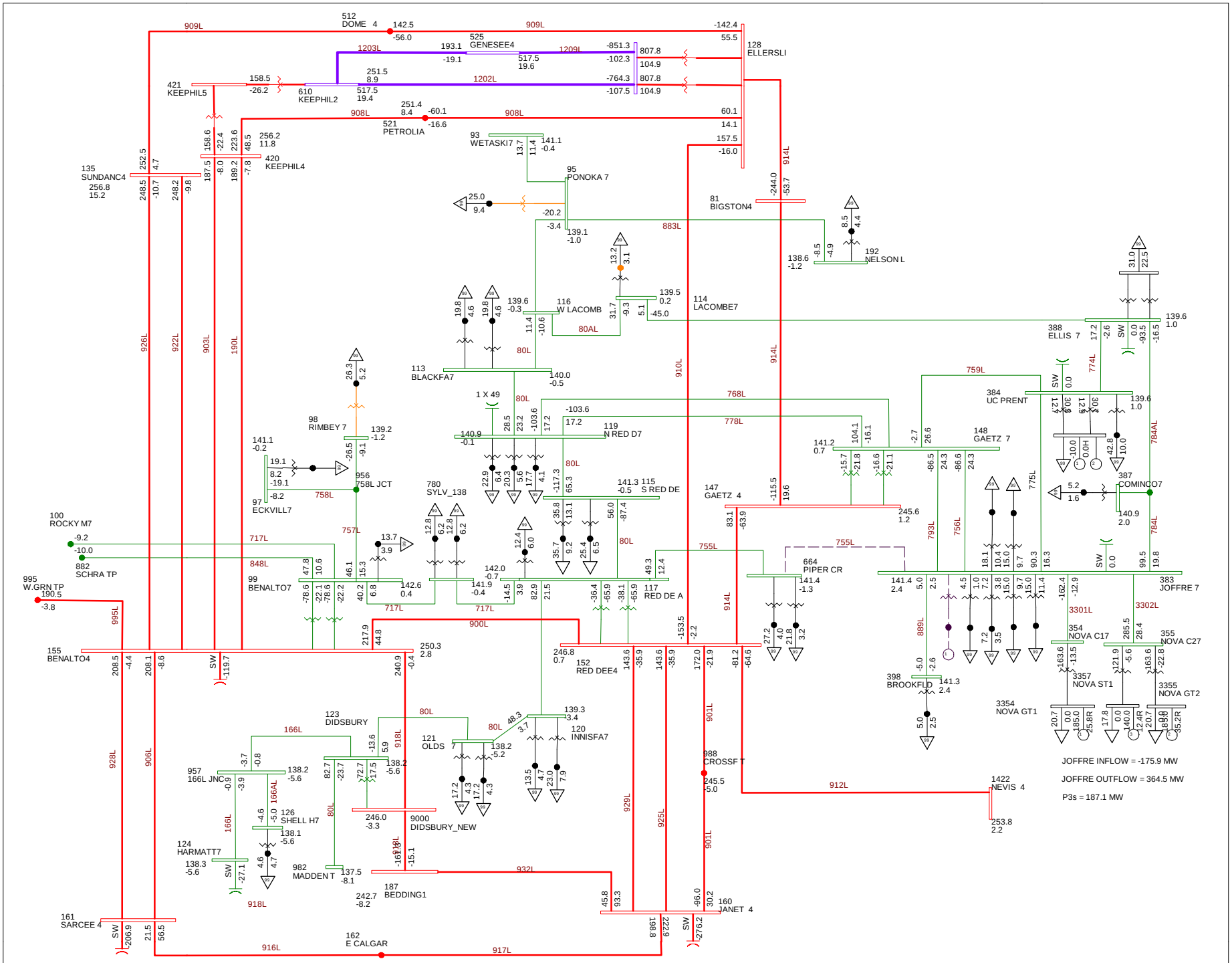
RED DEER REGION STUDY

2012 WINTER PEAK BASE CASE REVISION 6.5

FIG 2012-ALT1-LOAD-WP-32
138 KV 755L (RED DEER 63S TO PIPER CREEK 247S) OUTAGE
TUE, MAR 01 2011 15:36

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
100.0%RATE
KV: <=1.000 <=34.500 <=138.000 <=500.000
1.050OV <=72.000 <=240.000 >500.000
0.900UV

D-2012-40



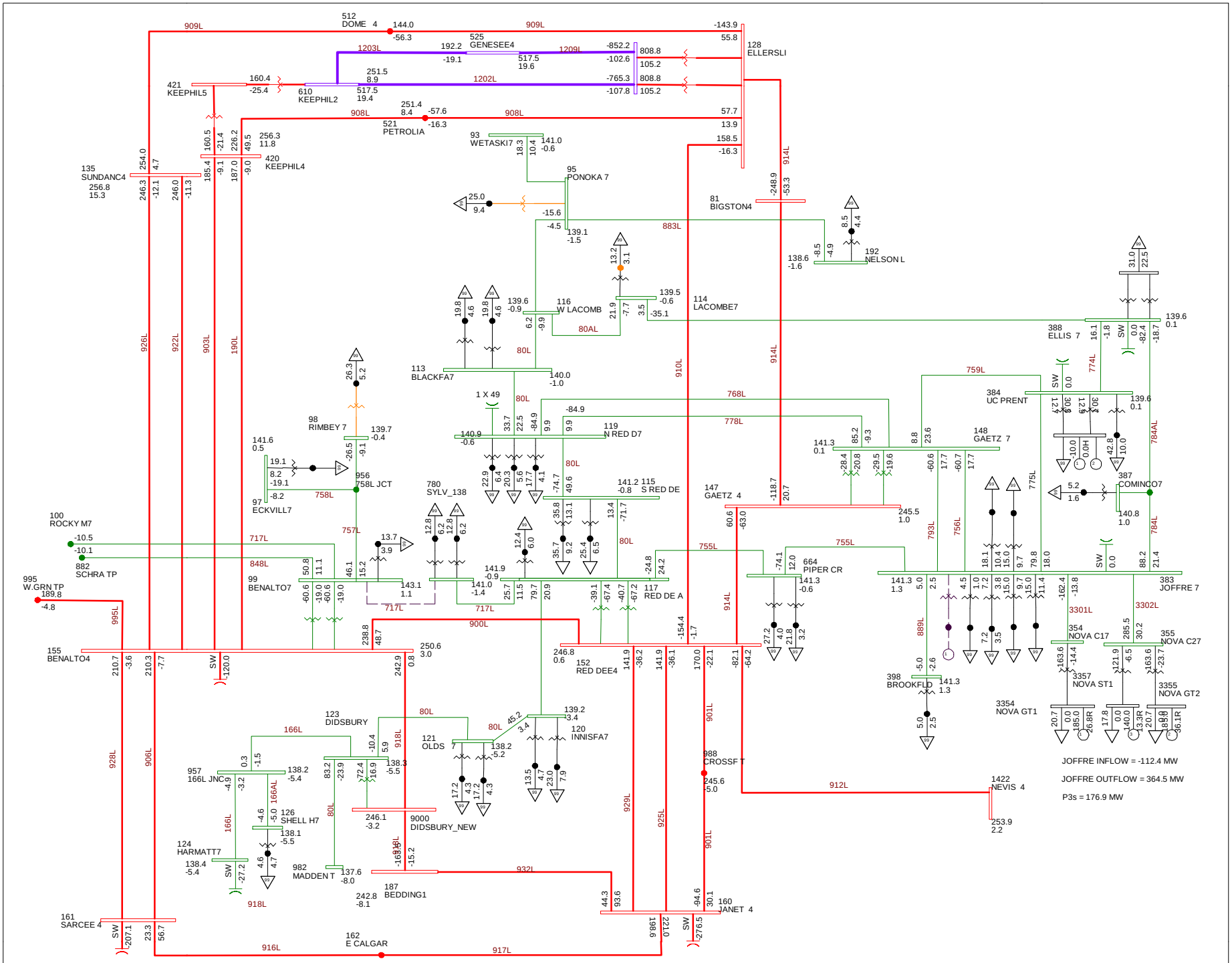
RED DEER REGION STUDY

2012 WINTER PEAK BASE CASE REVISION 6.5

FIG 2012-ALT1-LOAD-WP-33
138 KV 755L (JOFFRE 535S TO PIPER CREEK 247S) OUTAGE
TUE, MAR 01 2011 15:36

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
100.0%RATE
KV: <=1.000 <=34.500 <=138.000 <=500.000
1.050UV <=72.000 <=240.000 >500.000
0.900UV

D-2012-41



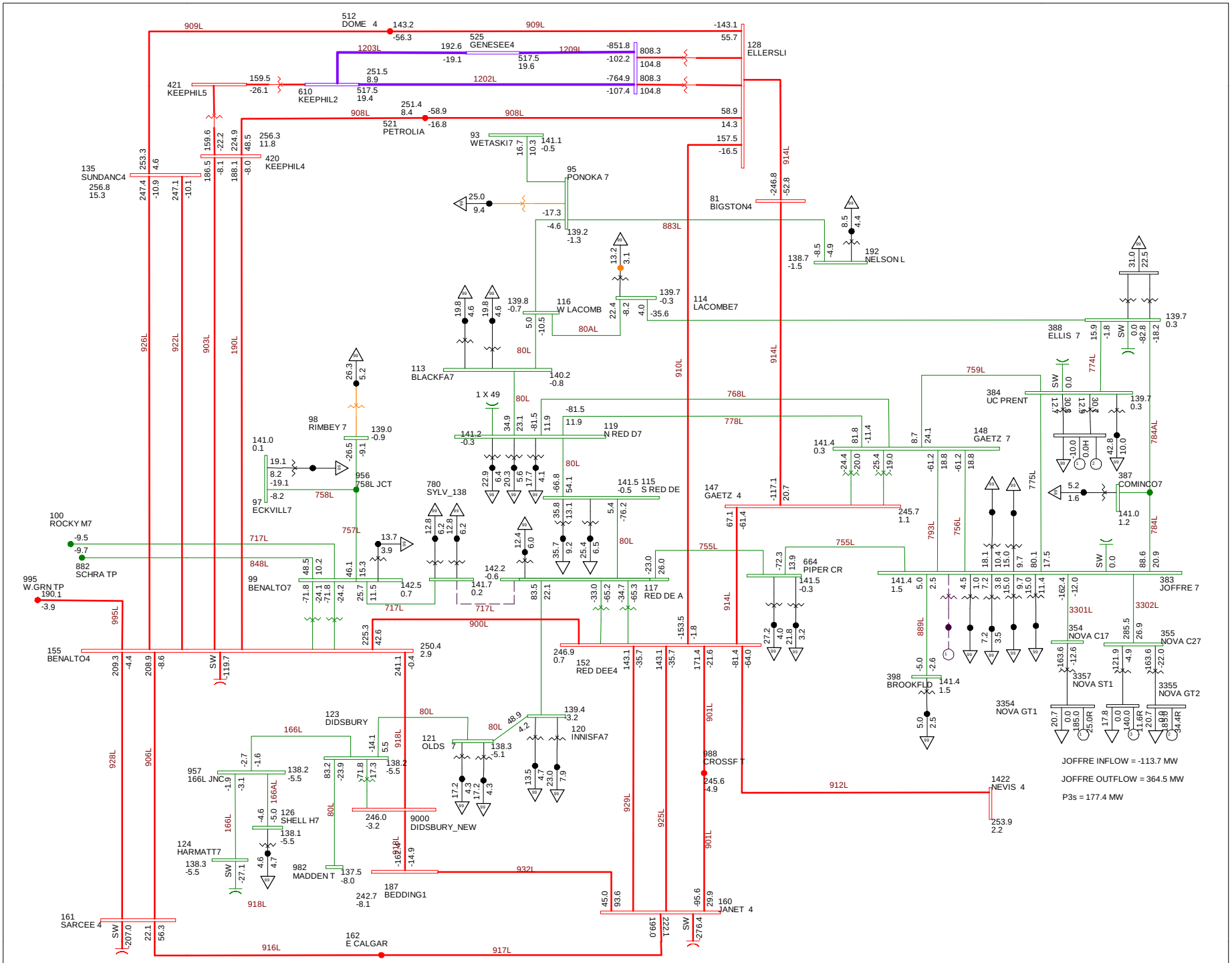
RED DEER REGION STUDY

2012 WINTER PEAK BASE CASE REVISION 6.5

FIG 2012-ALT1-LOAD-WP-34
138 KV 717L (BENALTO 17S TO SYLVAN LAKE 580S) OUTAGE
TUE, MAR 01 2011 15:36

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
100.0%RATE
KV: <=1.000 <=34.500 <=138.000 <=500.000
1.050OV <=72.000 <=240.000 >500.000
0.900UV

D-2012-42

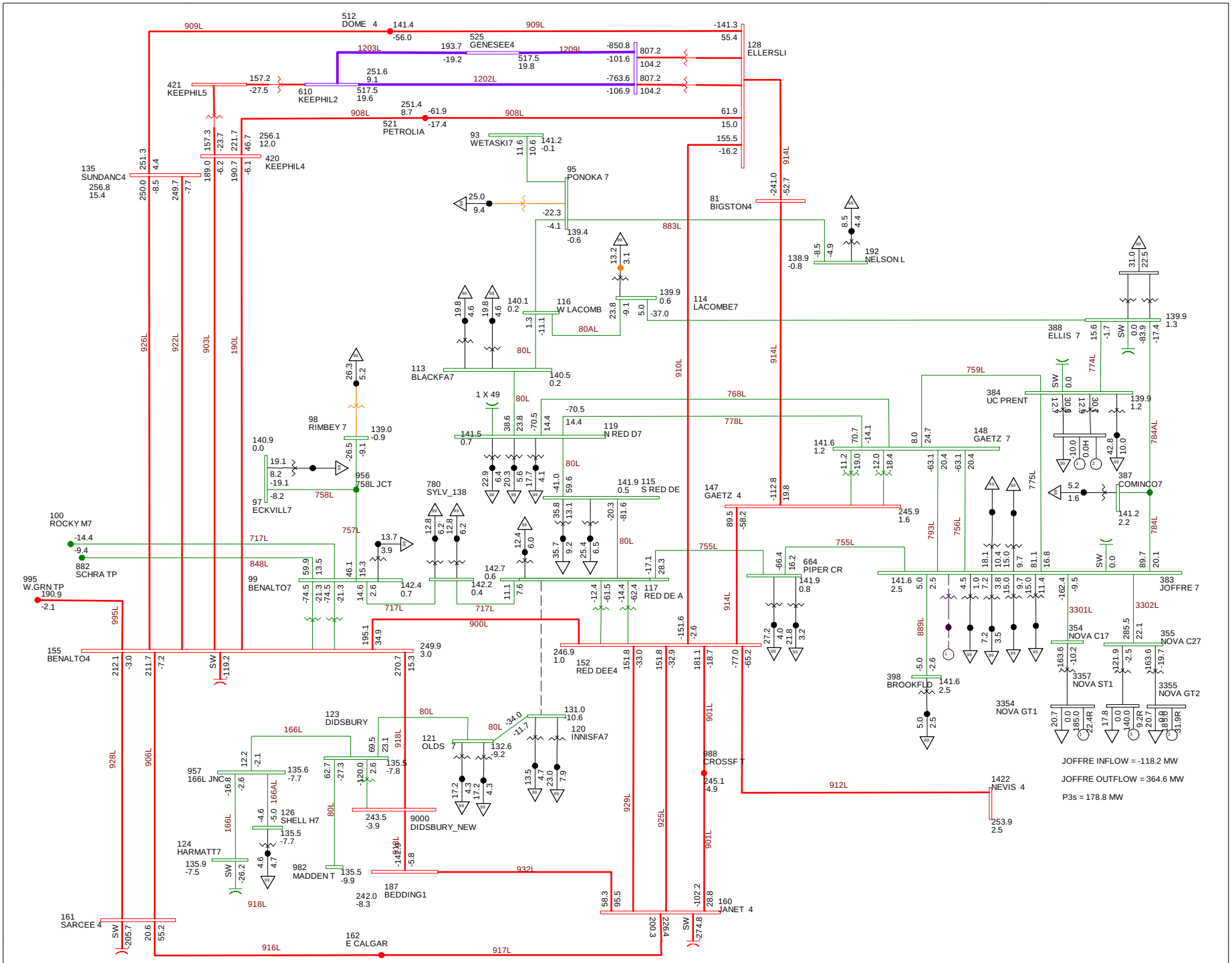


RED DEER REGION STUDY

2012 WINTER PEAK BASE CASE REVISION 6.5

FIG 2012-ALT1-LOAD-WP-35
138 KV 717L (RED DEER 63S TO SYLVAN LAKE 580S) OUTAGE
TUE, MAR 01 2011 15:36

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
100.0%RATE
KV: <=1.000 <=34.500 <=138.000 <=500.000
1.050UV <=72.000 <=240.000 >500.000
0.900UV



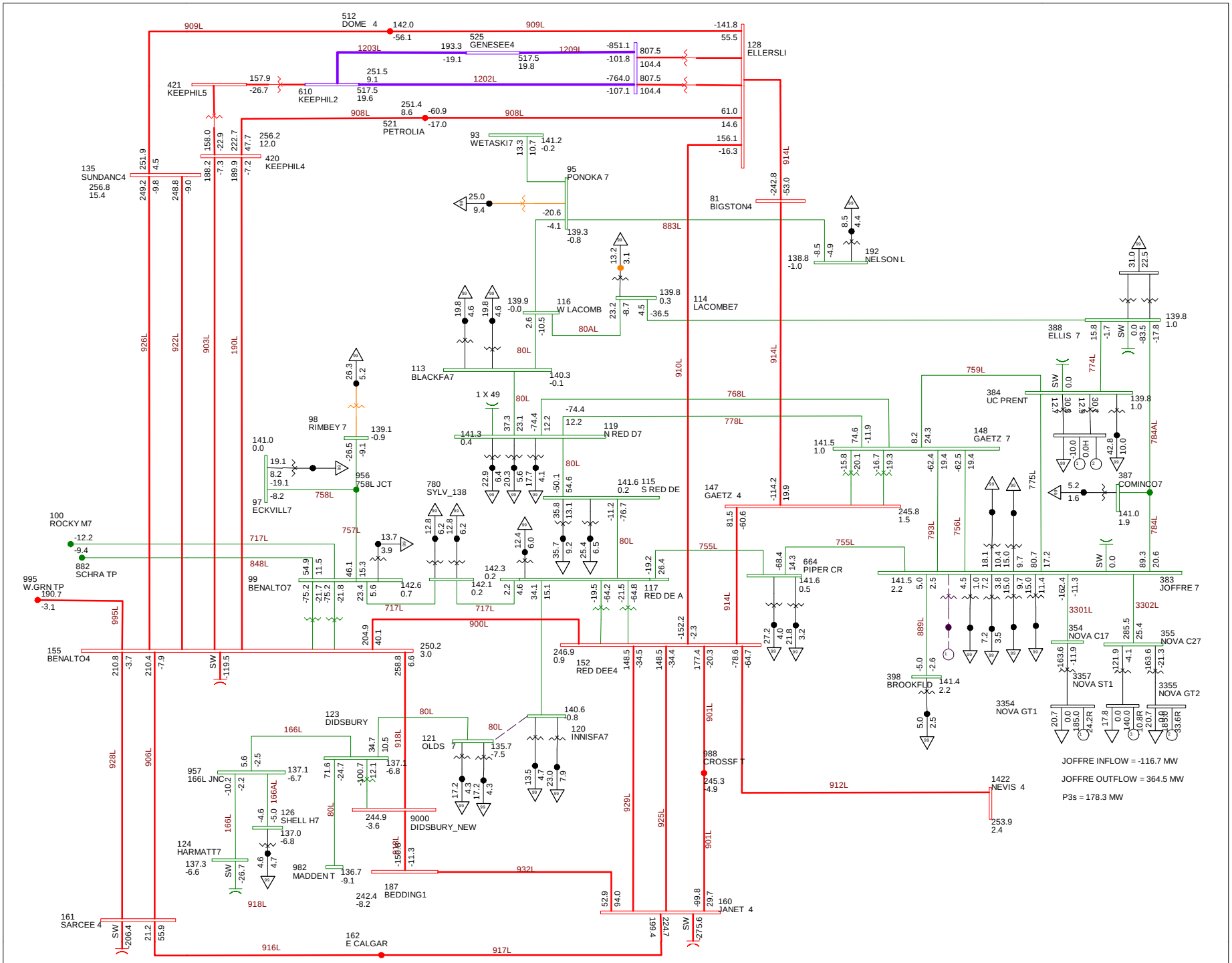
RED DEER REGION STUDY

2012 WINTER PEAK BASE CASE REVISION 6.5

FIG 2012-ALT1-LOAD-WP-36
138 KV 80L (RED DEER 63S TO INNISFAIL 214S) OUTAGE
TUE, MAR 01 2011 15:36

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
100.0%RATE
KV: <=1.000 <=34.500 <=138.000 <=500.000
1.050UV <=72.000 <=240.000 >500.000
0.900UV

D-2012-44



RED DEER REGION STUDY

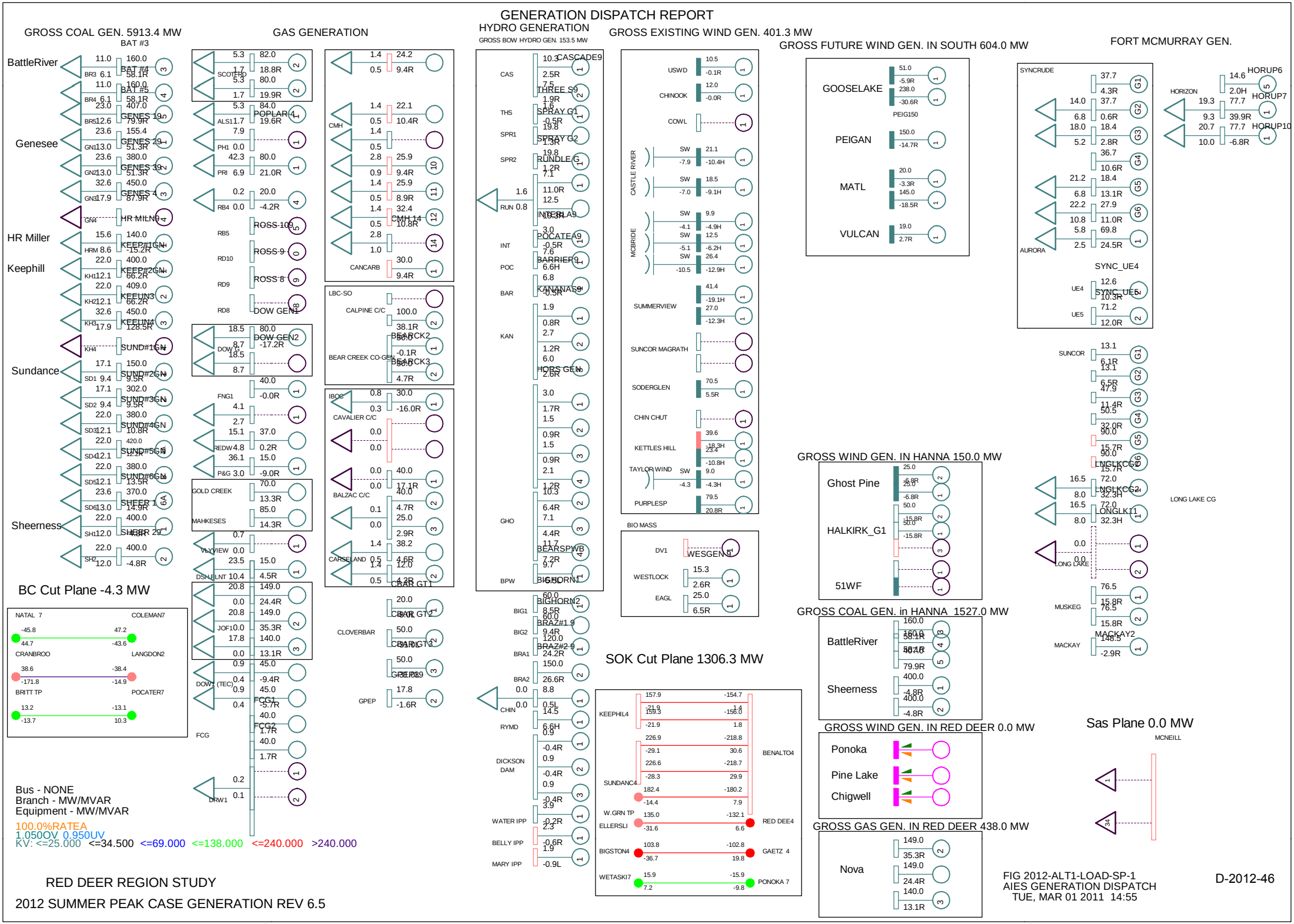
2012 WINTER PEAK BASE CASE REVISION 6.5

FIG 2012-ALT1-LOAD-WP-37
138 KV 80L (INNISFAIL 214S TO OLDS 55S) OUTAGE
TUE, MAR 01 2011 15:36

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
100.0%RATE
KV: <=1.000 <=34.500 <=138.000 <=500.000
1.050UV <=72.000 <=240.000 >500.000
0.900UV

D-2012-45

GENERATION DISPATCH REPORT

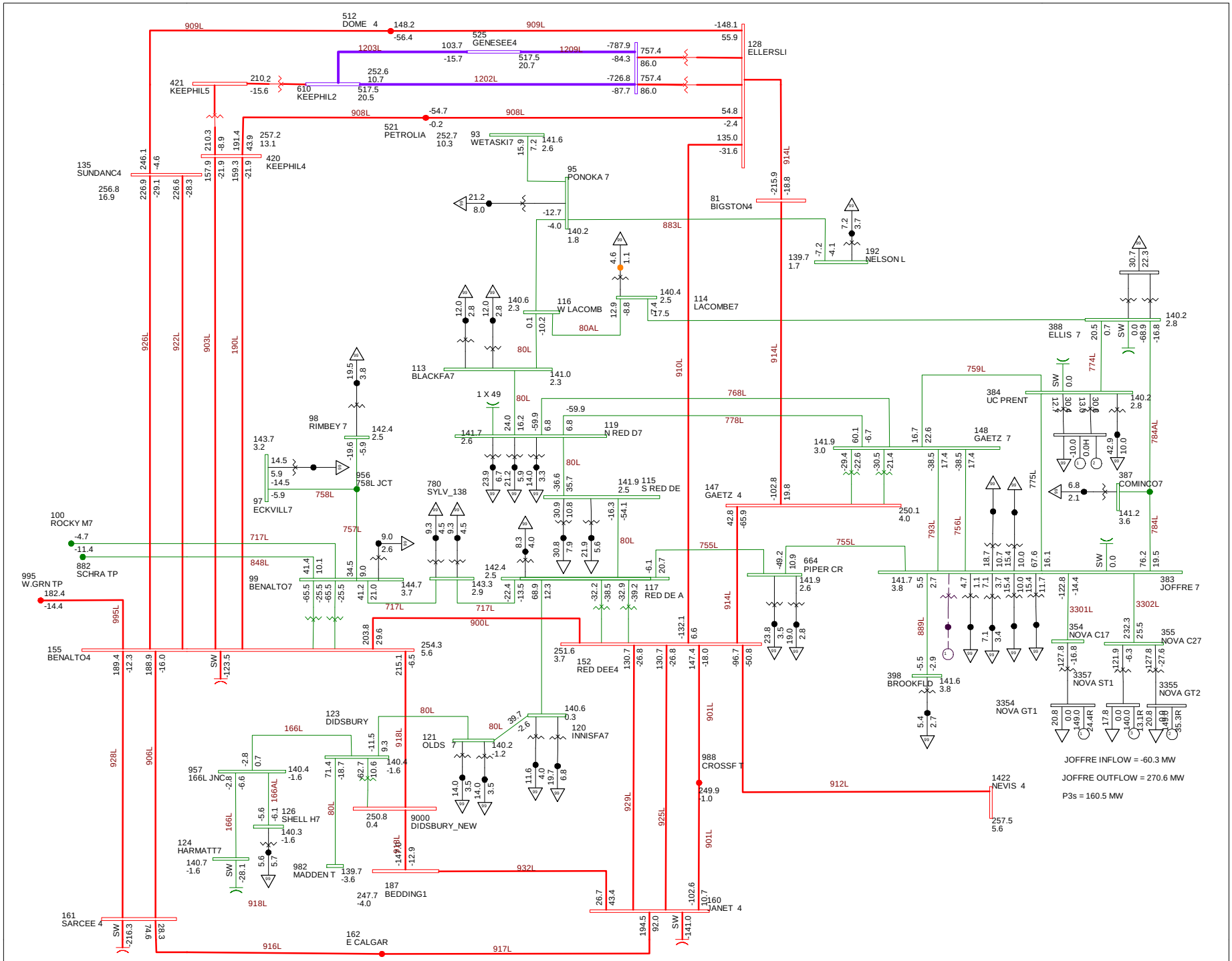


RED DEER REGION STUDY

2012 SUMMER PEAK CASE GENERATION REV 6.5

FIG 2012-ALT1-LOAD-SP-1
AIES GENERATION DISPATCH
TUE, MAR 01 2011 14:55

D-2012-46



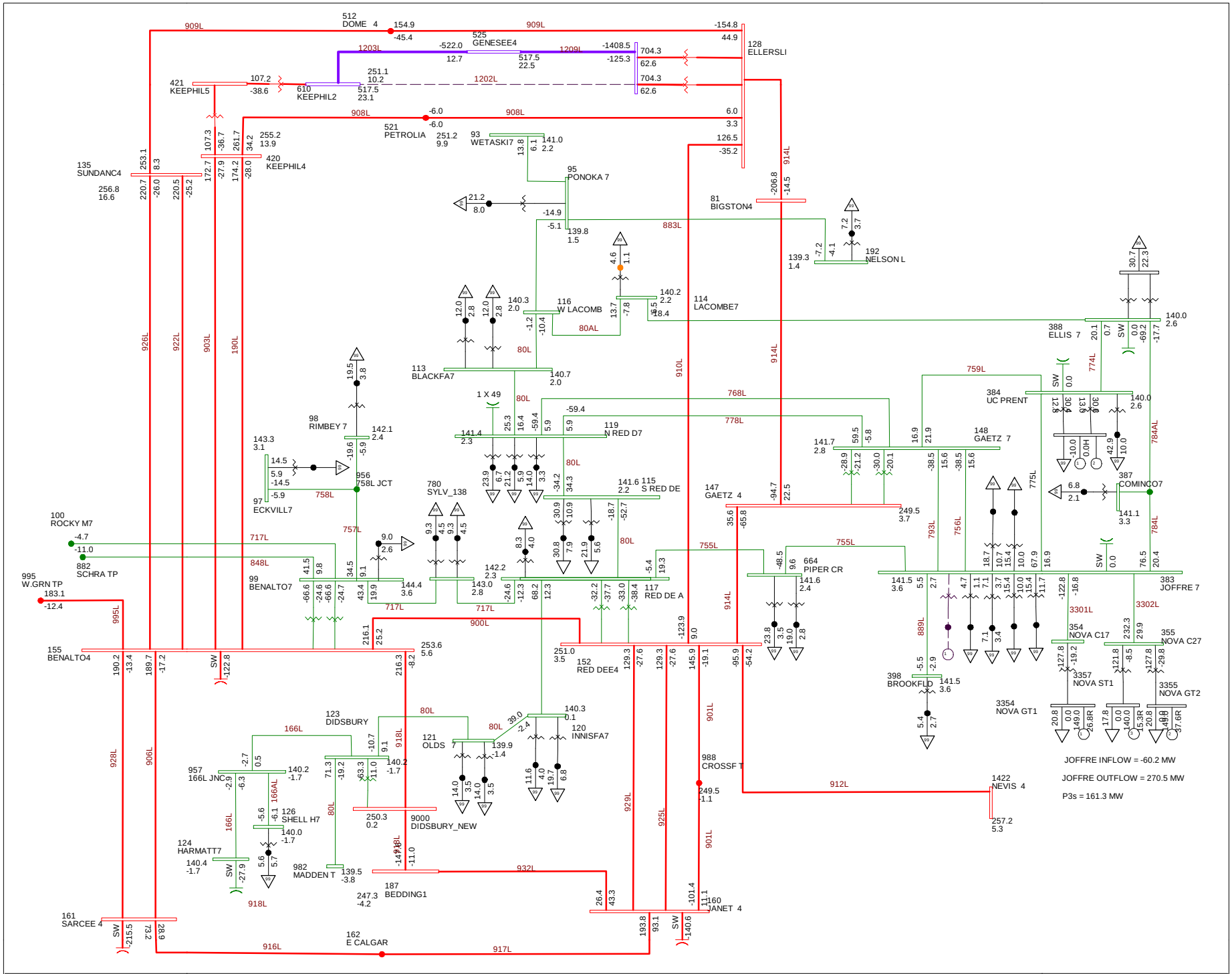
RED DEER REGION STUDY

2012 SUMMER PEAK BASE CASE REVISION 6.5

FIG 2012-ALT1-LOAD-SP-2
ALL ELEMENTS IN SERVICE
TUE, MAR 01 2011 14:55

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR

D-2012-47

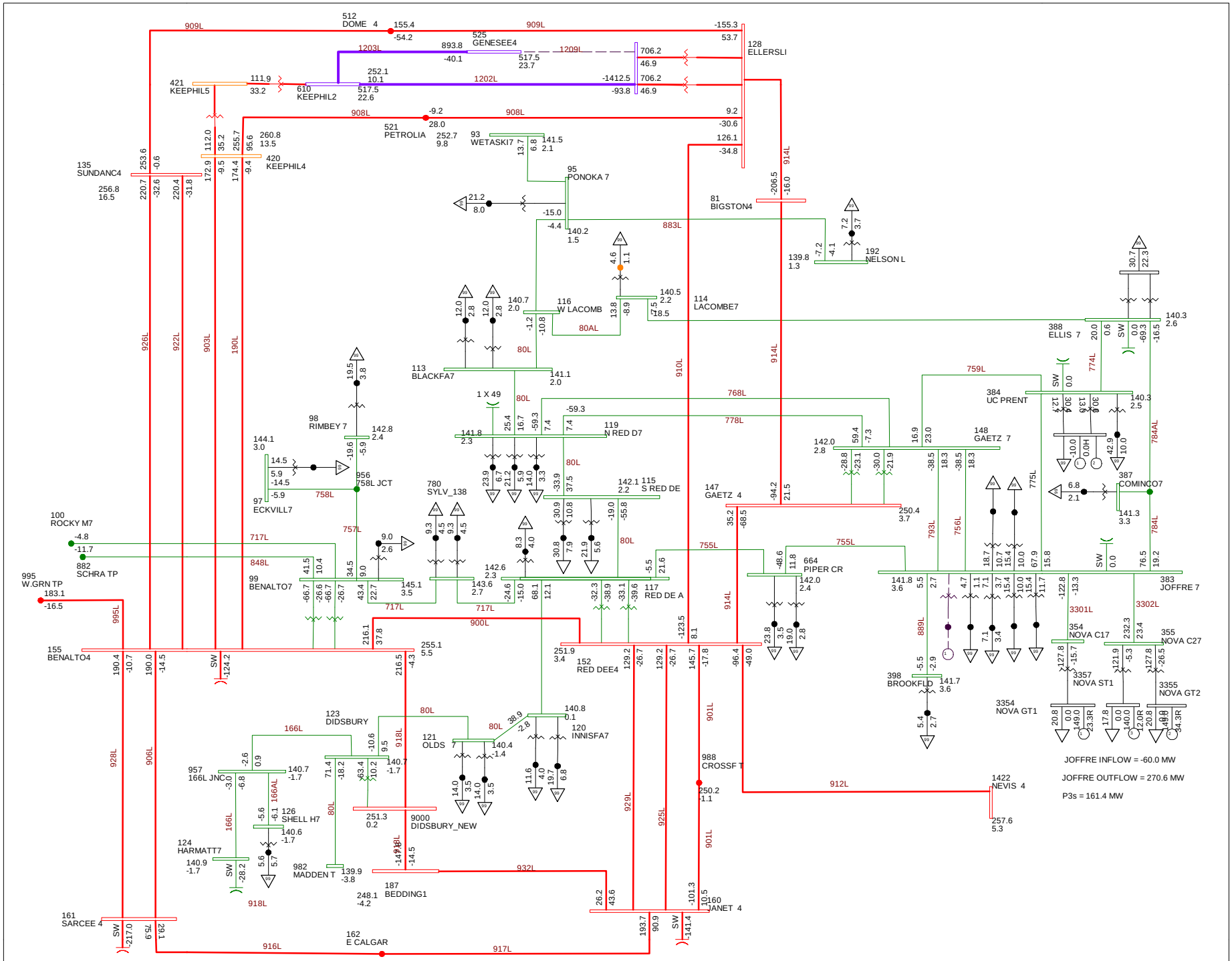


RED DEER REGION STUDY

2012 SUMMER PEAK BASE CASE REVISION 6.5

FIG 2012-ALT1-LOAD-SP-3
500KV 1202L (ELLERSLIE 89S TO KEEPHILLS 320P) OUTAGE
TUE, MAR 01 2011 14:55

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR



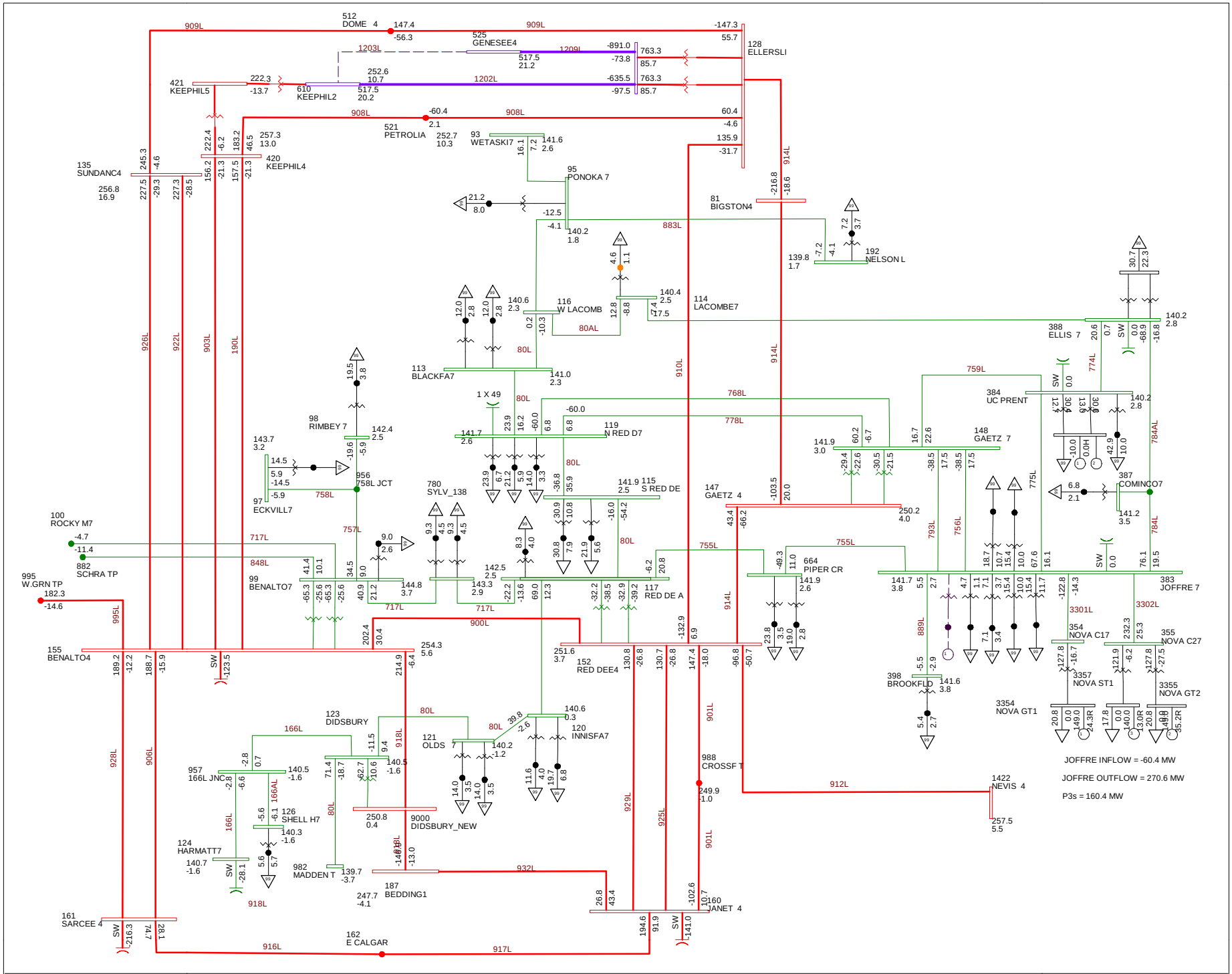
RED DEER REGION STUDY

2012 SUMMER PEAK BASE CASE REVISION 6.5

FIG 2012-ALT1-LOAD-SP-4
500KV 1209L (ELLERSLIE 89S TO GENESEE E330P) OUTAGE
TUE, MAR 01 2011 14:55

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR

D-2012-49



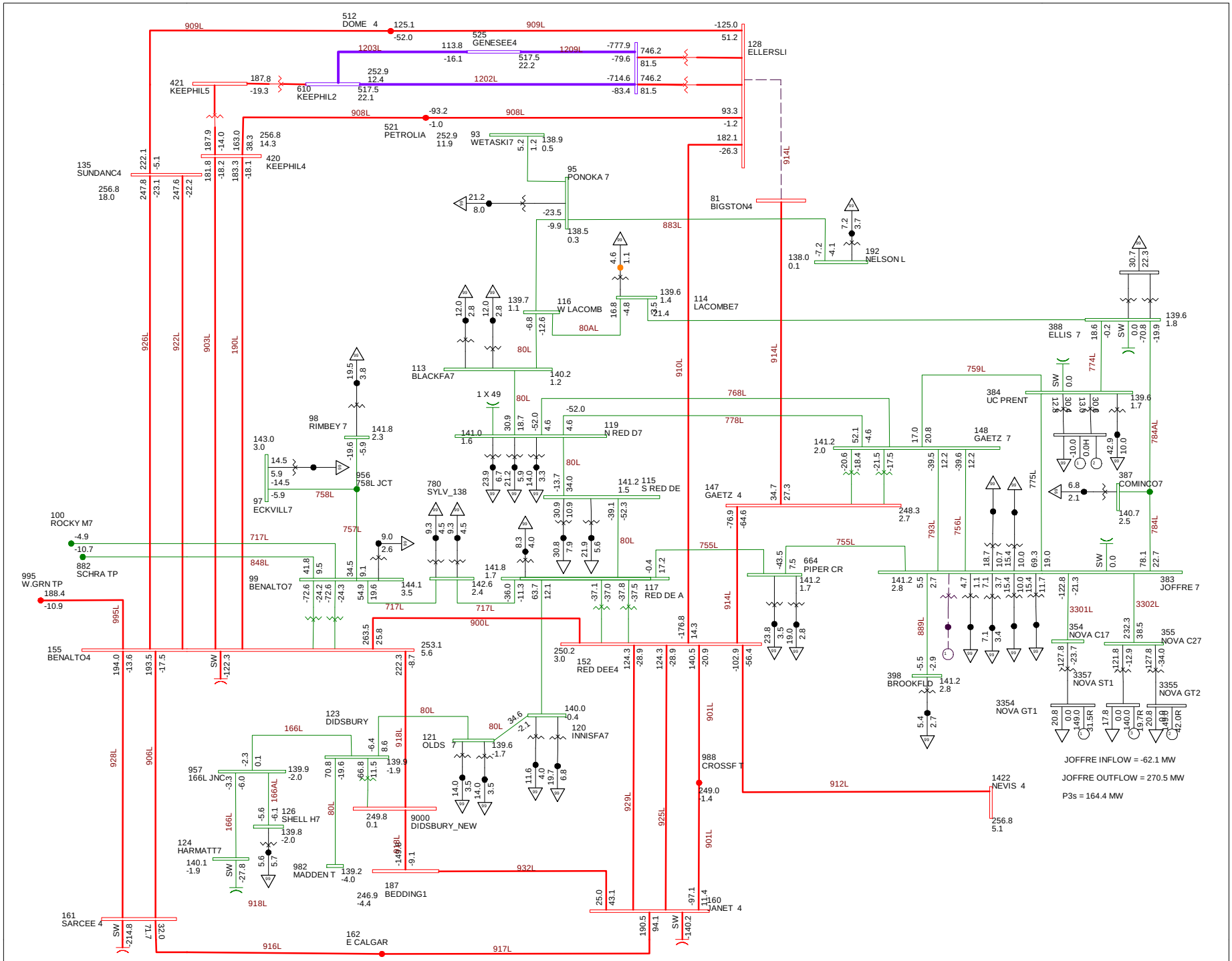
RED DEER REGION STUDY

2012 SUMMER PEAK BASE CASE REVISION 6.5

FIG 2012-ALT1-LOAD-SP-5
500KV 1203L (GENESEE E330P TO KEEPHILLS 320P) OUTAGE
TUE, MAR 01 2011 14:55

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR

D-2012-50



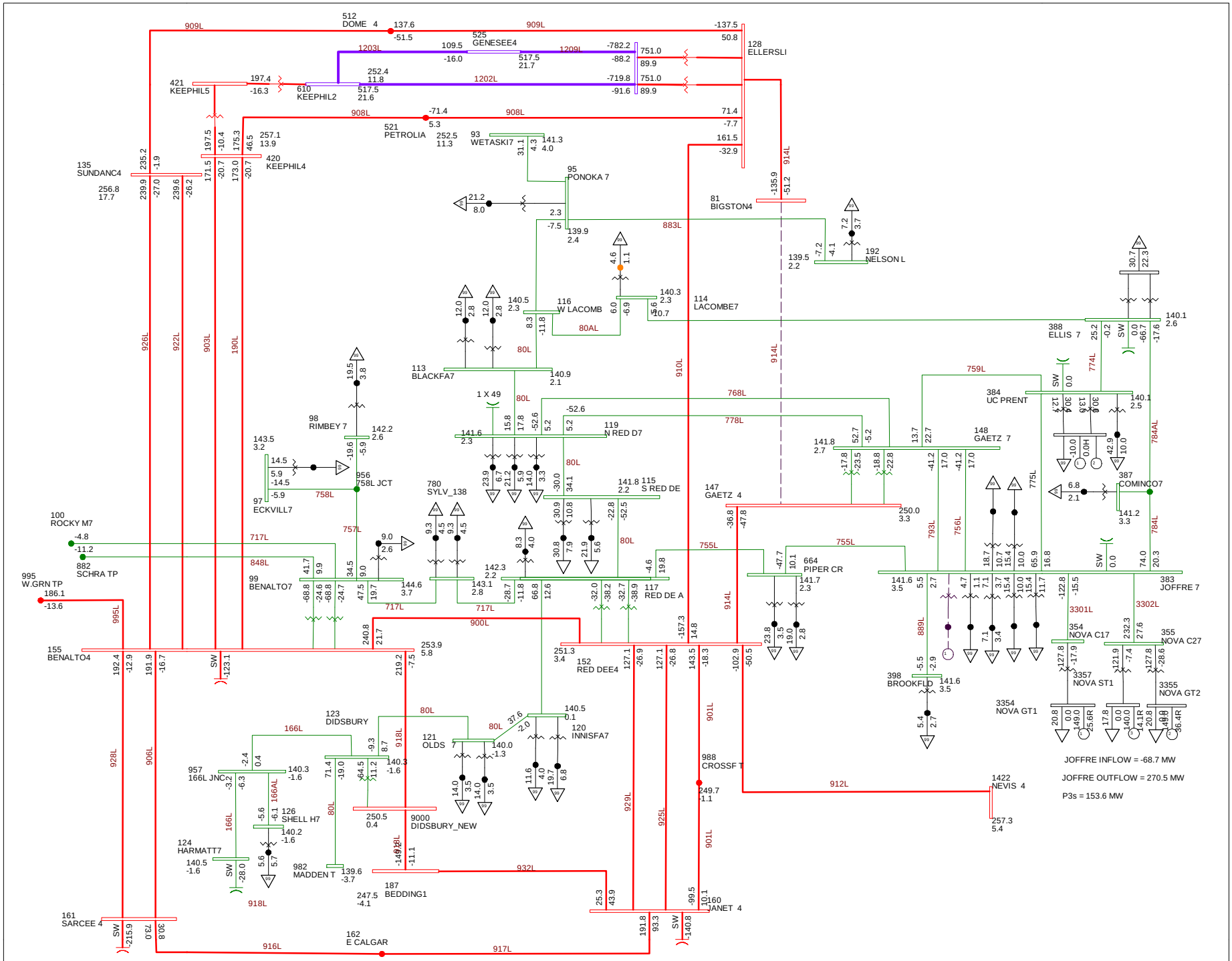
RED DEER REGION STUDY

2012 SUMMER PEAK BASE CASE REVISION 6.5

FIG 2012-ALT1-LOAD-SP-6
240KV 914L (ELLERSLIE 89S TO BIGSTONE 86S) OUTAGE
TUE, MAR 01 2011 14:55

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR

D-2012-51



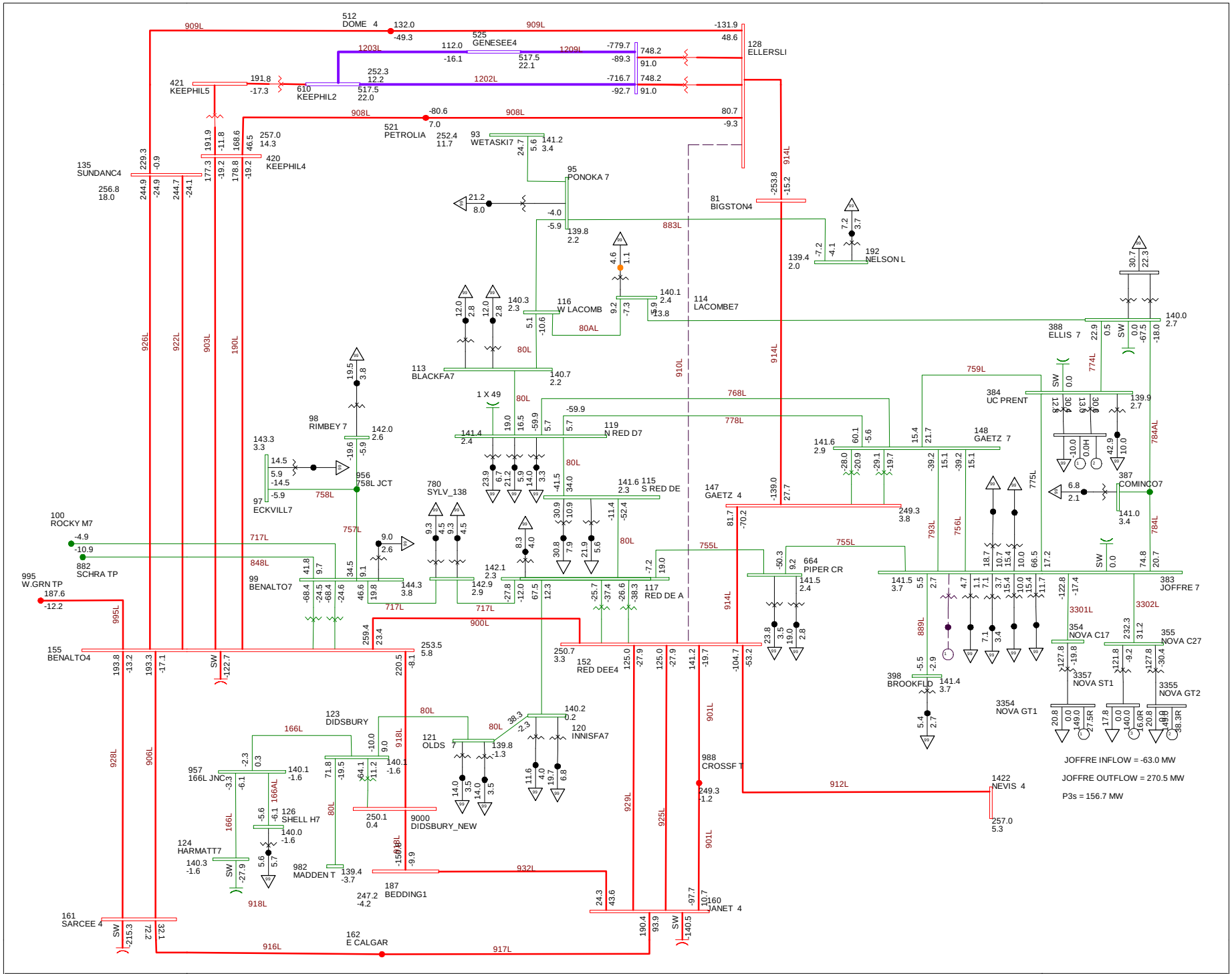
RED DEER REGION STUDY

2012 SUMMER PEAK BASE CASE REVISION 6.5

FIG 2012-ALT1-LOAD-SP-7
240KV 914L (BIGSTONE 86S TO GAETZ 87S) OUTAGE
TUE, MAR 01 2011 14:55

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR

D-2012-52



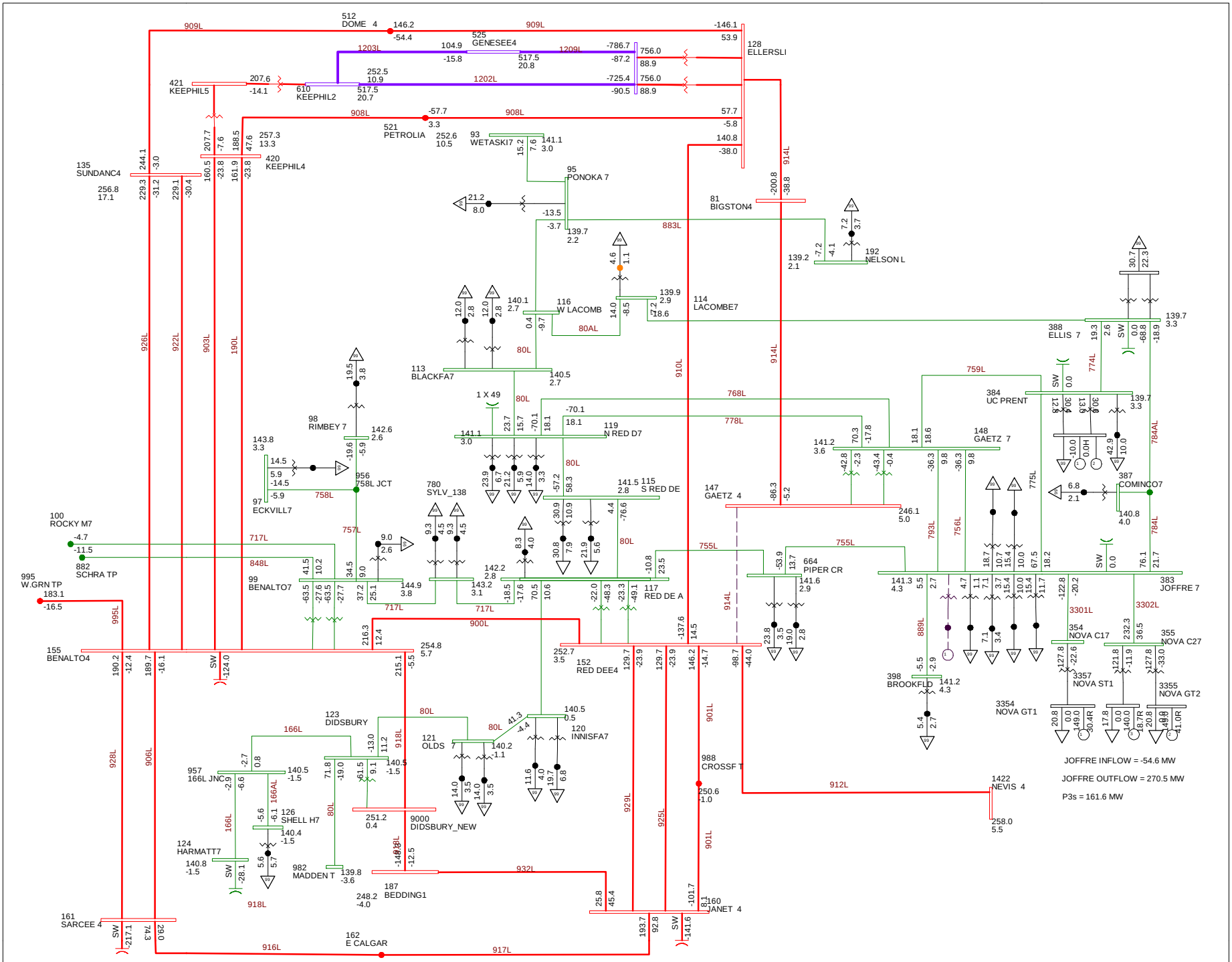
RED DEER REGION STUDY

2012 SUMMER PEAK BASE CASE REVISION 6.5

FIG 2012-ALT1-LOAD-SP-8
240KV 910L (ELLERSLIE 89S TO RED DEER 63S) OUTAGE
TUE, MAR 01 2011 14:55

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR

D-2012-53



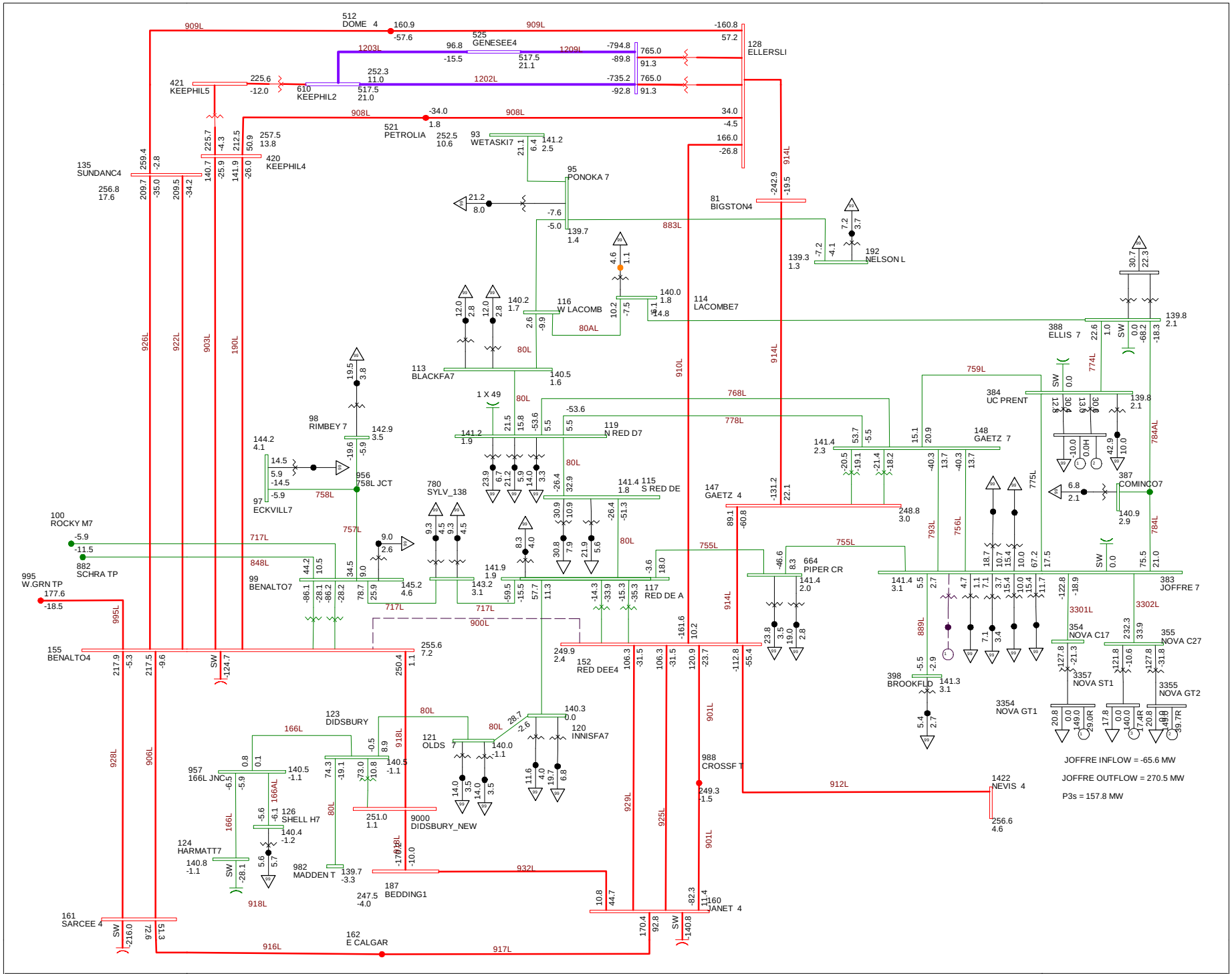
RED DEER REGION STUDY

2012 SUMMER PEAK BASE CASE REVISION 6.5

FIG 2012-ALT1-LOAD-SP-9
240KV 914L (GAETZ 87S TO RED DEER 63S) OUTAGE
TUE, MAR 01 2011 14:55

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR

D-2012-54



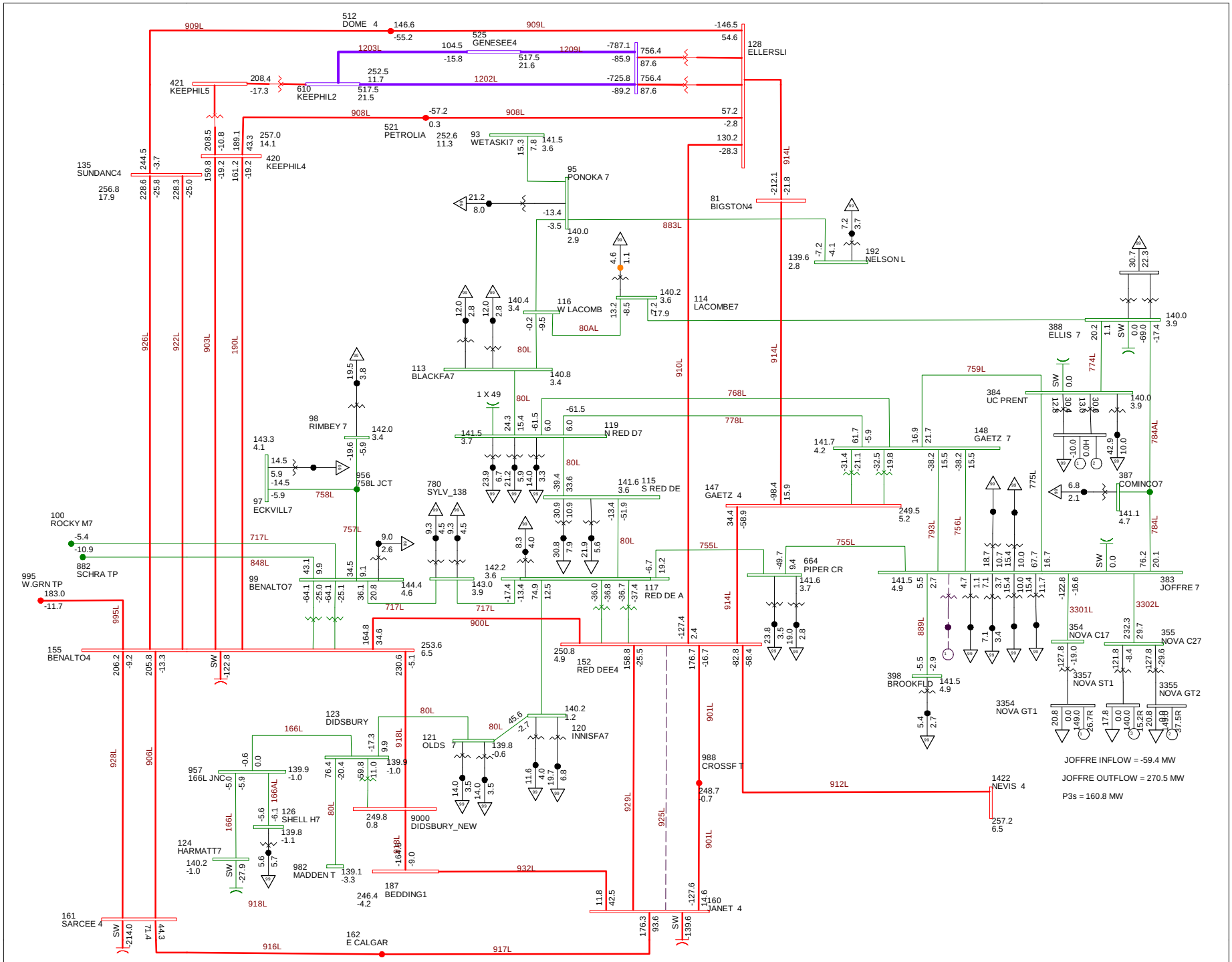
RED DEER REGION STUDY

2012 SUMMER PEAK BASE CASE REVISION 6.5

FIG 2012-ALT1-LOAD-SP-10
240KV 900L (RED DEER 63S TO BENALTO 17S) OUTAGE
TUE, MAR 01 2011 14:55

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR

D-2012-55

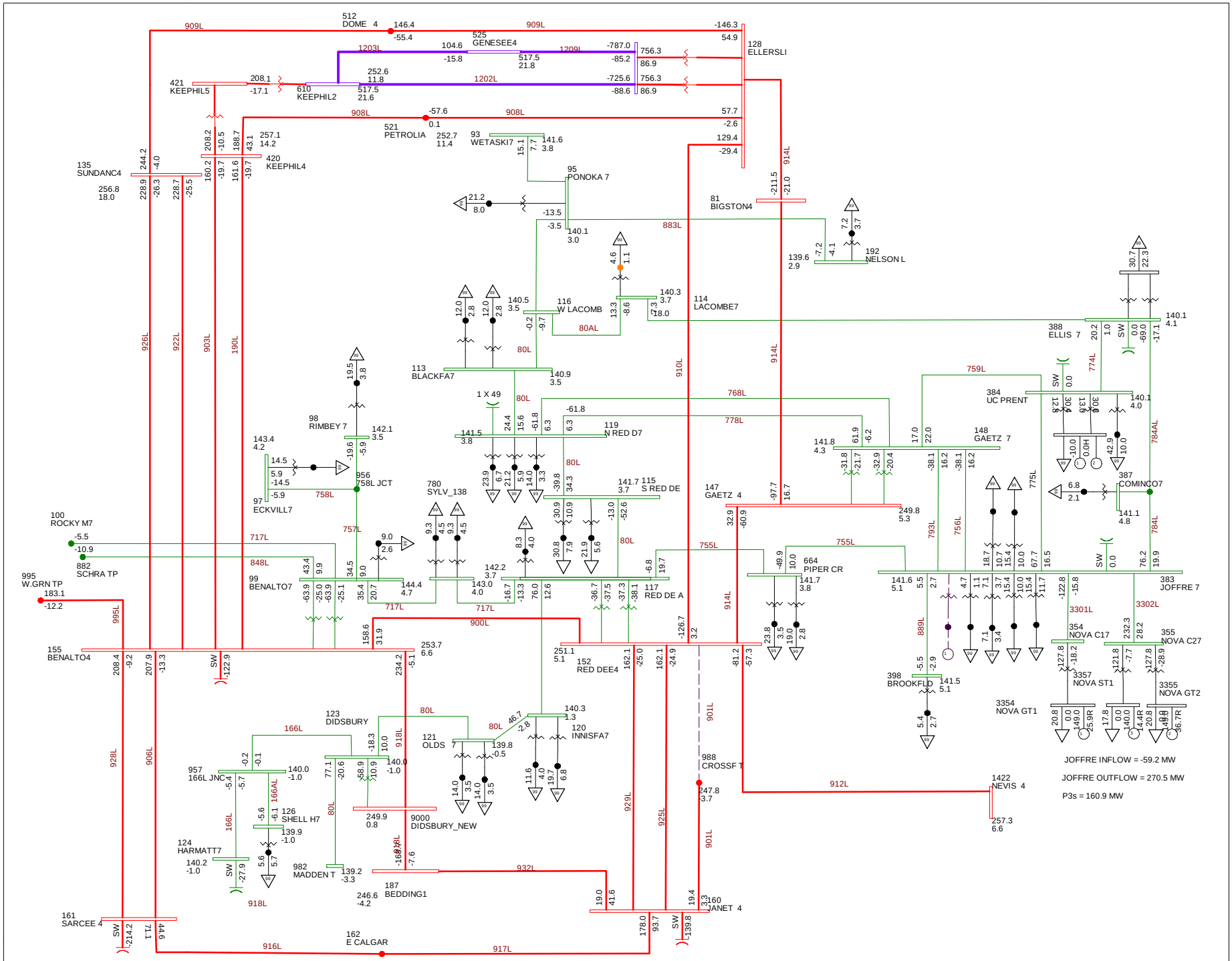


RED DEER REGION STUDY

2012 SUMMER PEAK BASE CASE REVISION 6.5

FIG 2012-ALT1-LOAD-SP-11
240KV 929/925L (RED DEER 63S TO JANET 74S) OUTAGE
TUE, MAR 01 2011 14:55

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR



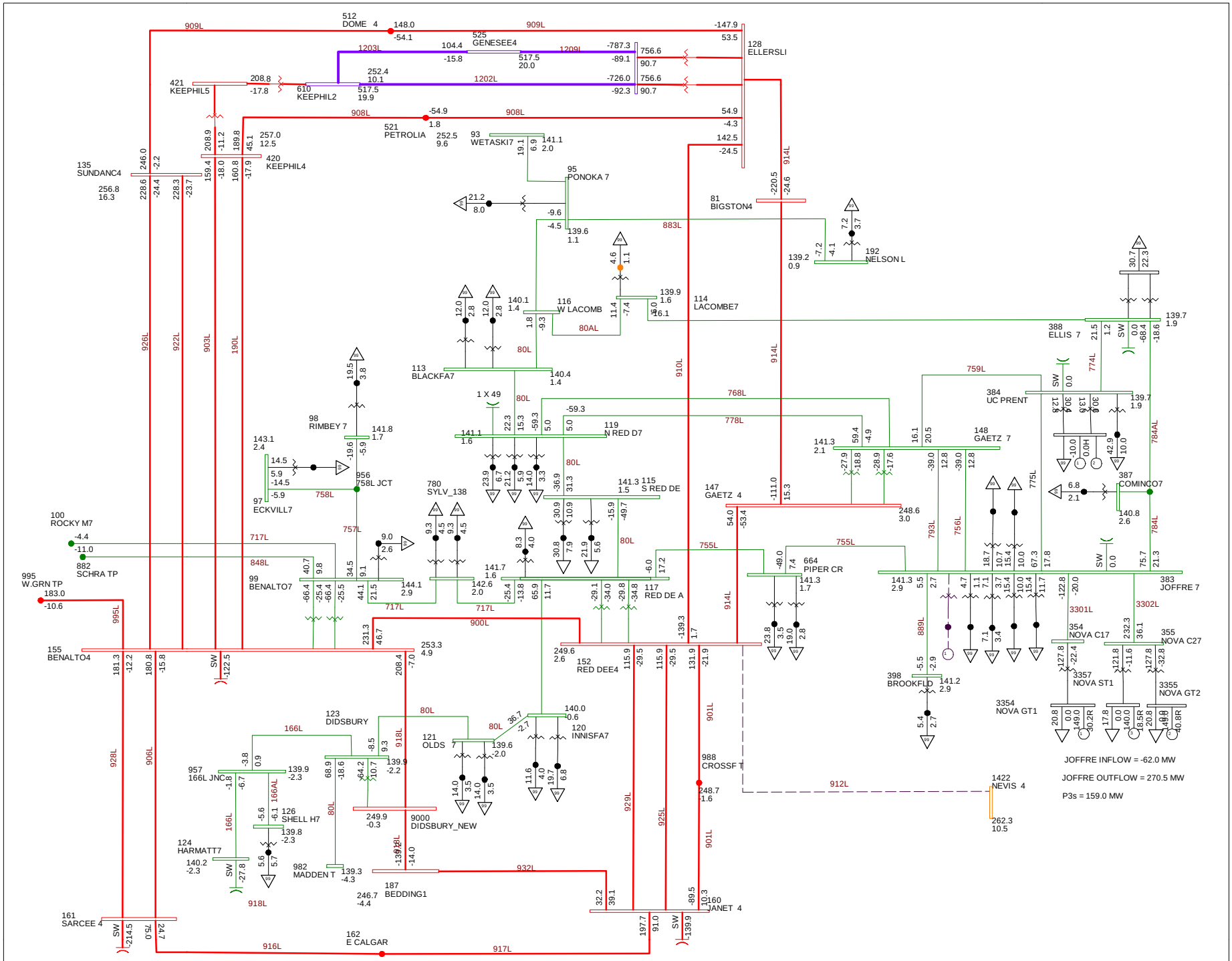
RED DEER REGION STUDY

2012 SUMMER PEAK BASE CASE REVISION 6.5

FIG 2012-ALT1-LOAD-SP-12
240KV 901L (RED DEER 63S TO CROSSFIELD 64S) OUTAGE
TUE, MAR 01 2011 14:55

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR

D-2012-57



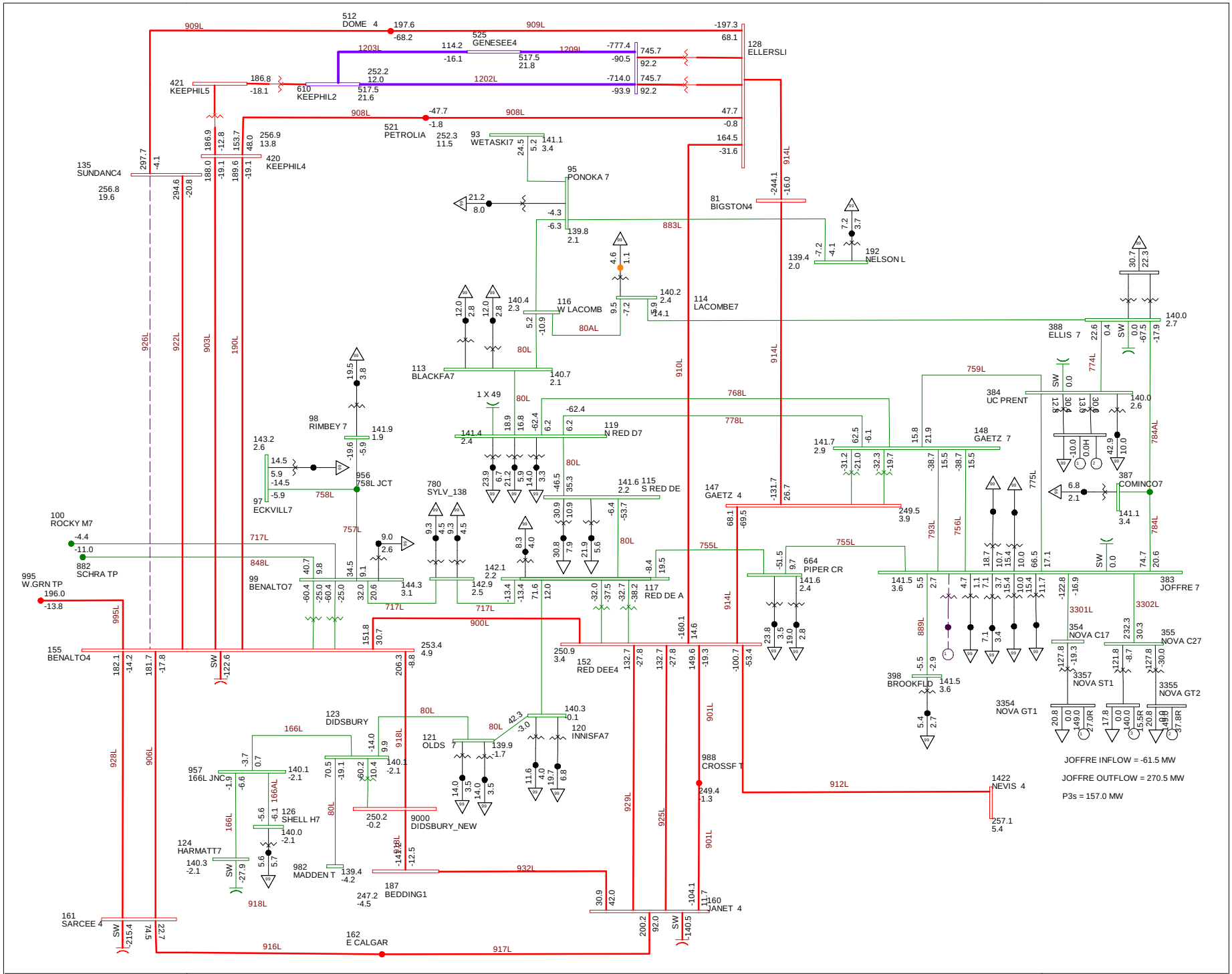
RED DEER REGION STUDY

2012 SUMMER PEAK BASE CASE REVISION 6.5

FIG 2012-ALT1-LOAD-SP-13
240KV 912L (RED DEER 63S TO NEVIS 766S) OUTAGE
TUE, MAR 01 2011 14:55

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR

D-2012-58



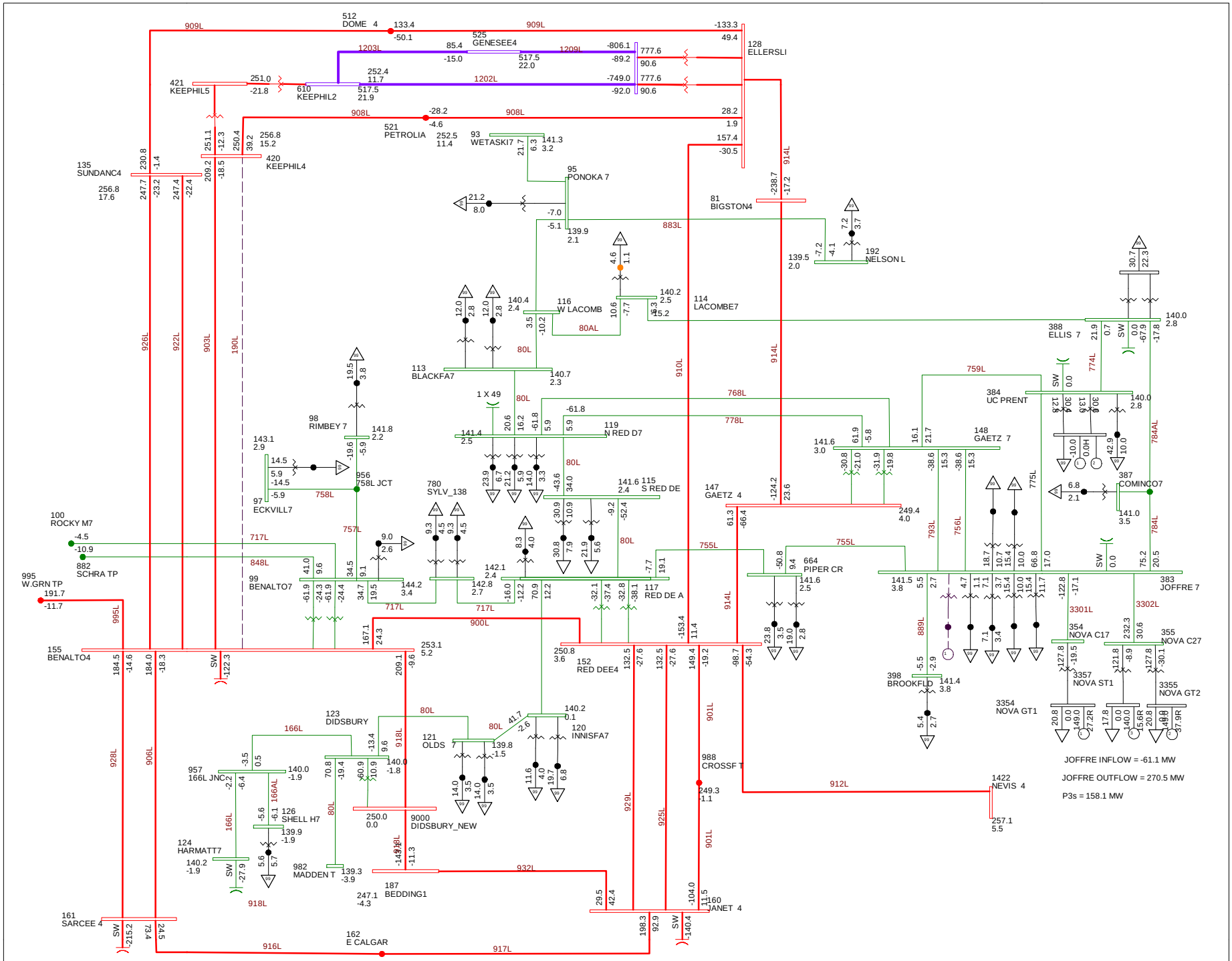
RED DEER REGION STUDY

2012 SUMMER PEAK BASE CASE REVISION 6.5

FIG 2012-ALT1-LOAD-SP-14
240 KV 926/922L (SUNDANCE 310P TO BENALTO 17S) OUTAGE
TUE, MAR 01 2011 14:55

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR

D-2012-59



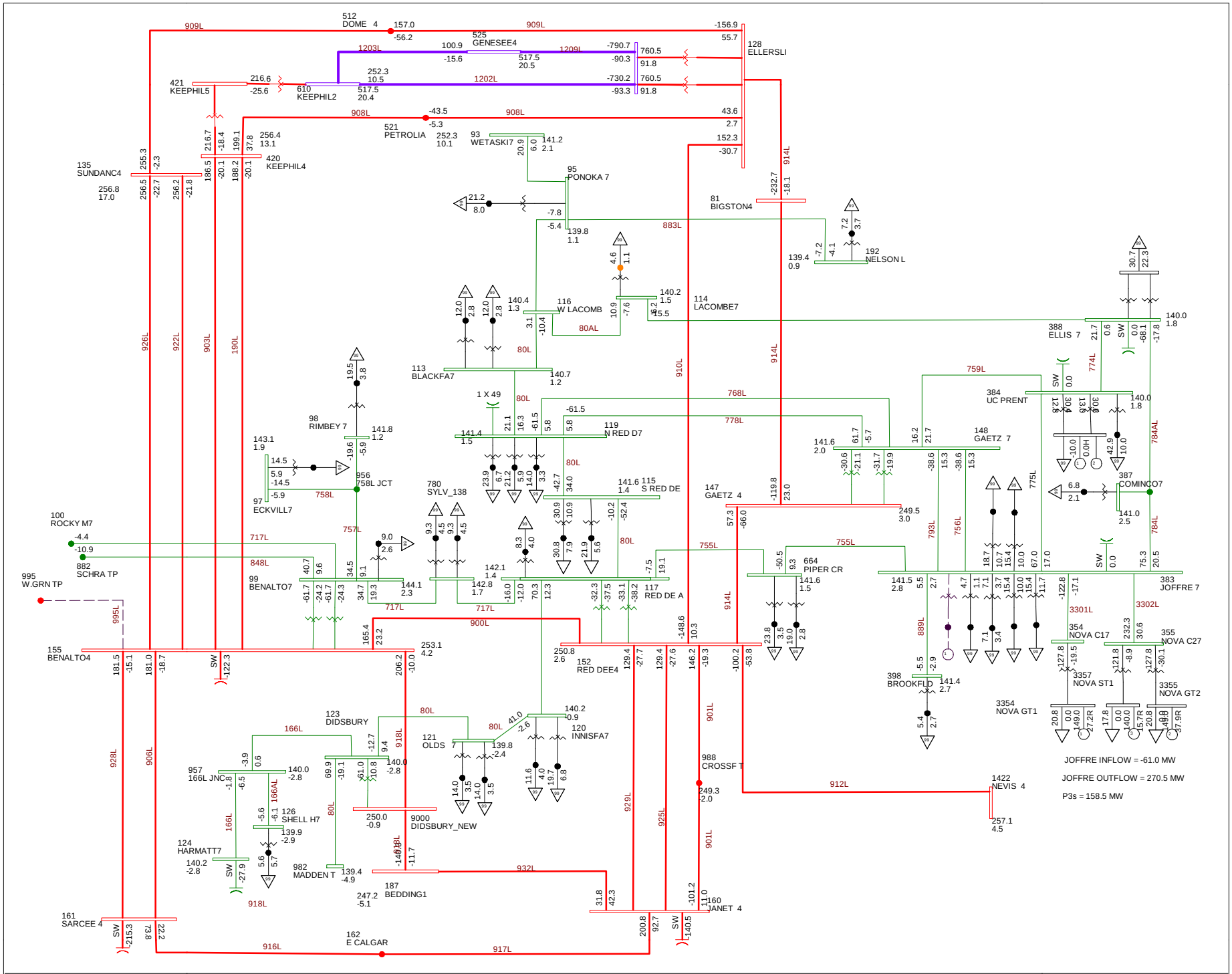
RED DEER REGION STUDY

2012 SUMMER PEAK BASE CASE REVISION 6.5

FIG 2012-ALT1-LOAD-SP-15
240KV 190/903L (KEEPHILLS 320P TO BENALTO 17S) OUTAGE
TUE, MAR 01 2011 14:55

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR

D-2012-60



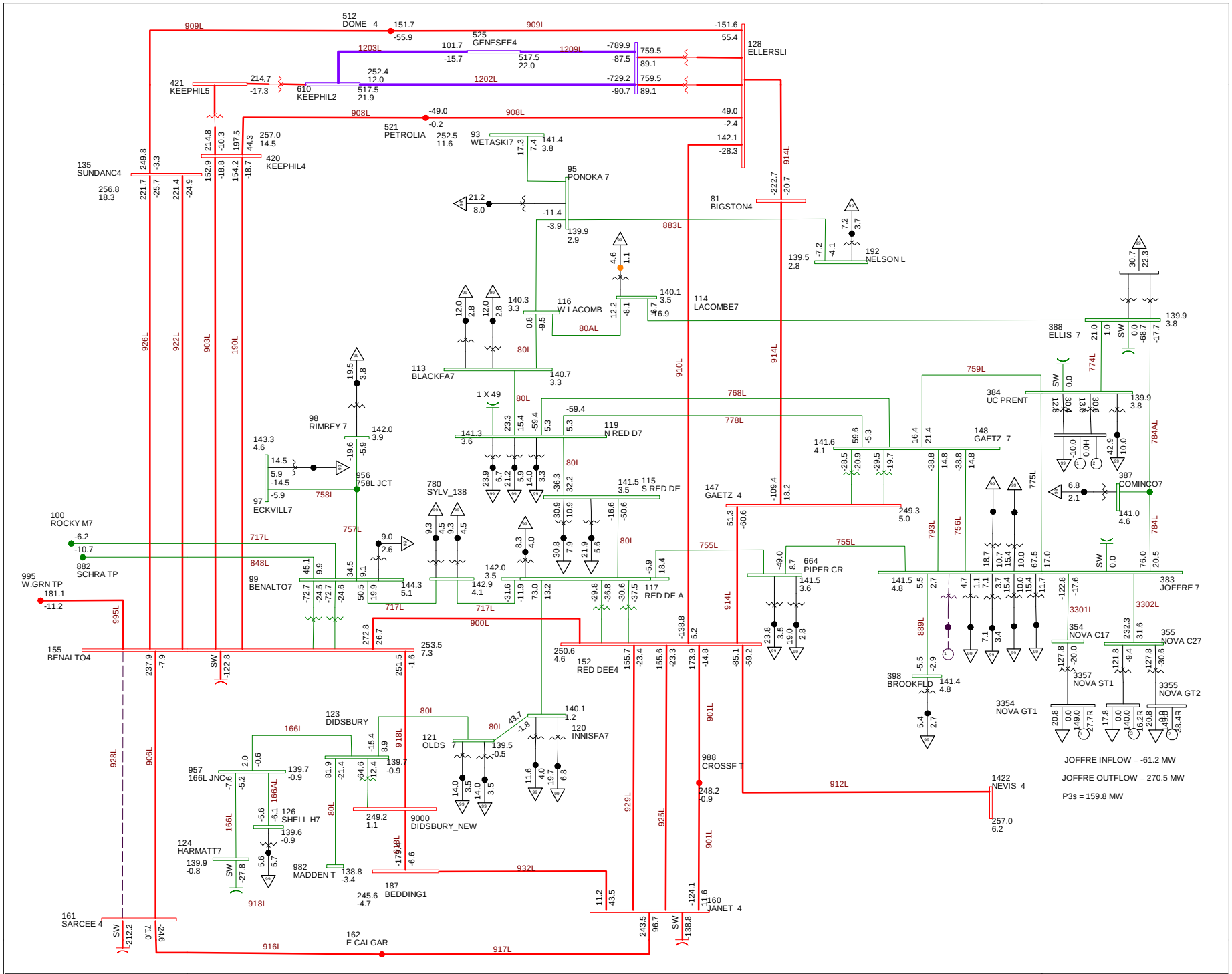
RED DEER REGION STUDY

2012 SUMMER PEAK BASE CASE REVISION 6.5

FIG 2012-ALT1-LOAD-SP-16
240 KV 995L (AMOCO WILLESDEN GREEN 68S TO BENALTO 17S) OUTAG
TUE, MAR 01 2011 14:55

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR

D-2012-61



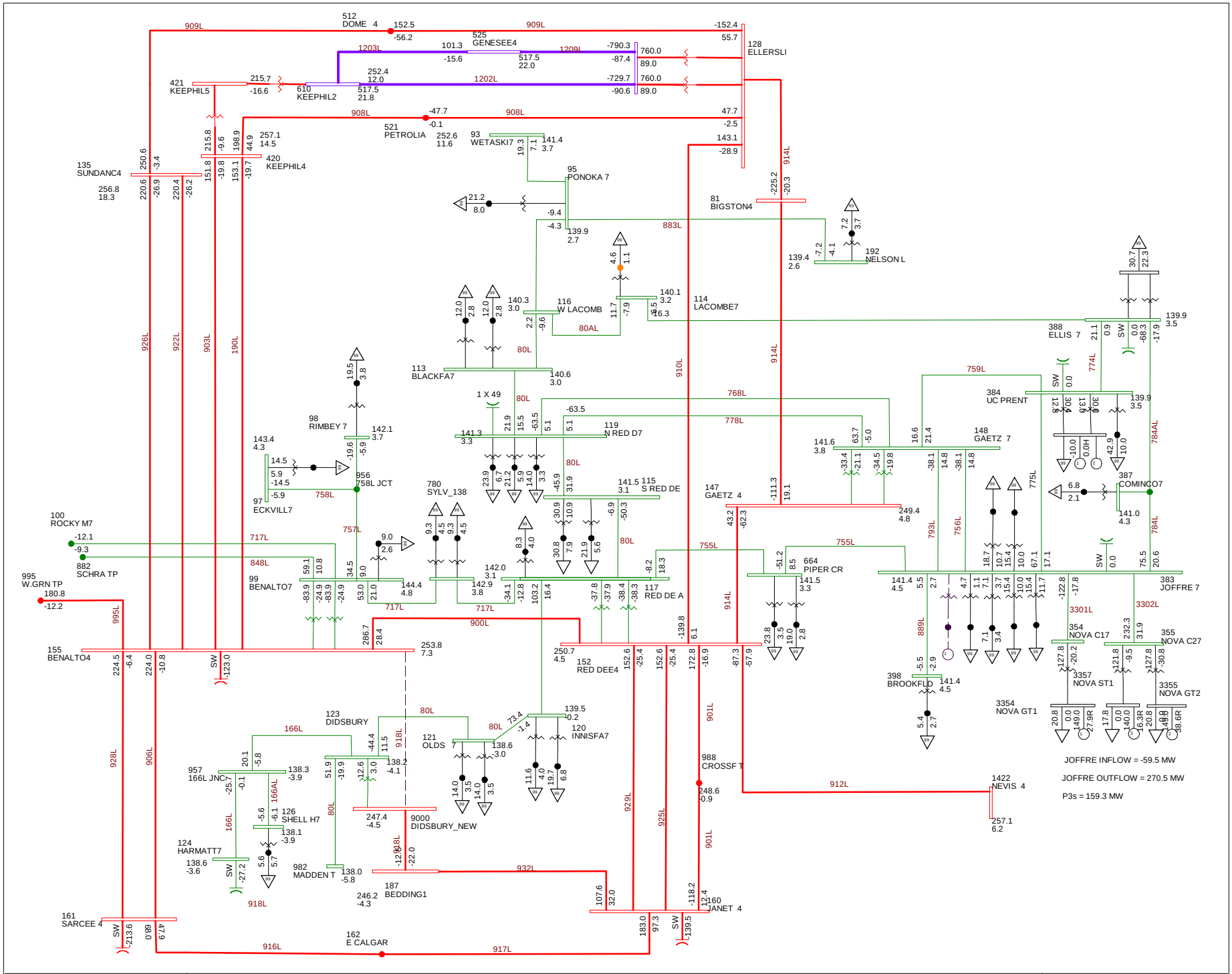
RED DEER REGION STUDY

2012 SUMMER PEAK BASE CASE REVISION 6.5

FIG 2012-ALT1-LOAD-SP-17
240 KV 906/928L (BENALTO 17S TO SARCEE 42S) OUTAGE
TUE, MAR 01 2011 14:55

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR

D-2012-62



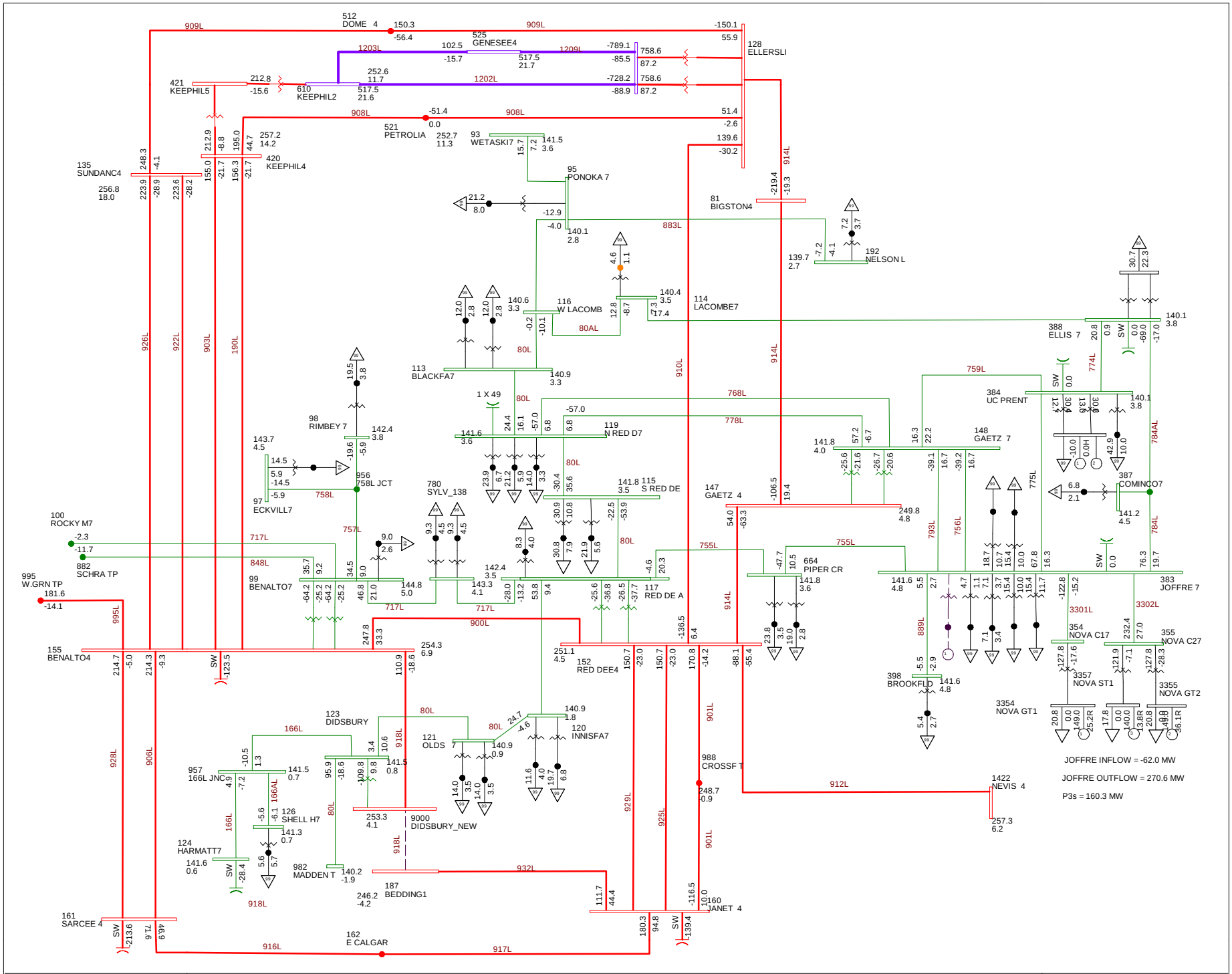
RED DEER REGION STUDY

2012 SUMMER PEAK BASE CASE REVISION 6.5

FIG 2012-ALT1-LOAD-SP-18
240 KV 918L (BENALTO 17S TO DIDSBURY SUB. (152S)) OUTAGE
TUE, MAR 01 2011 14:55

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR

D-2012-63



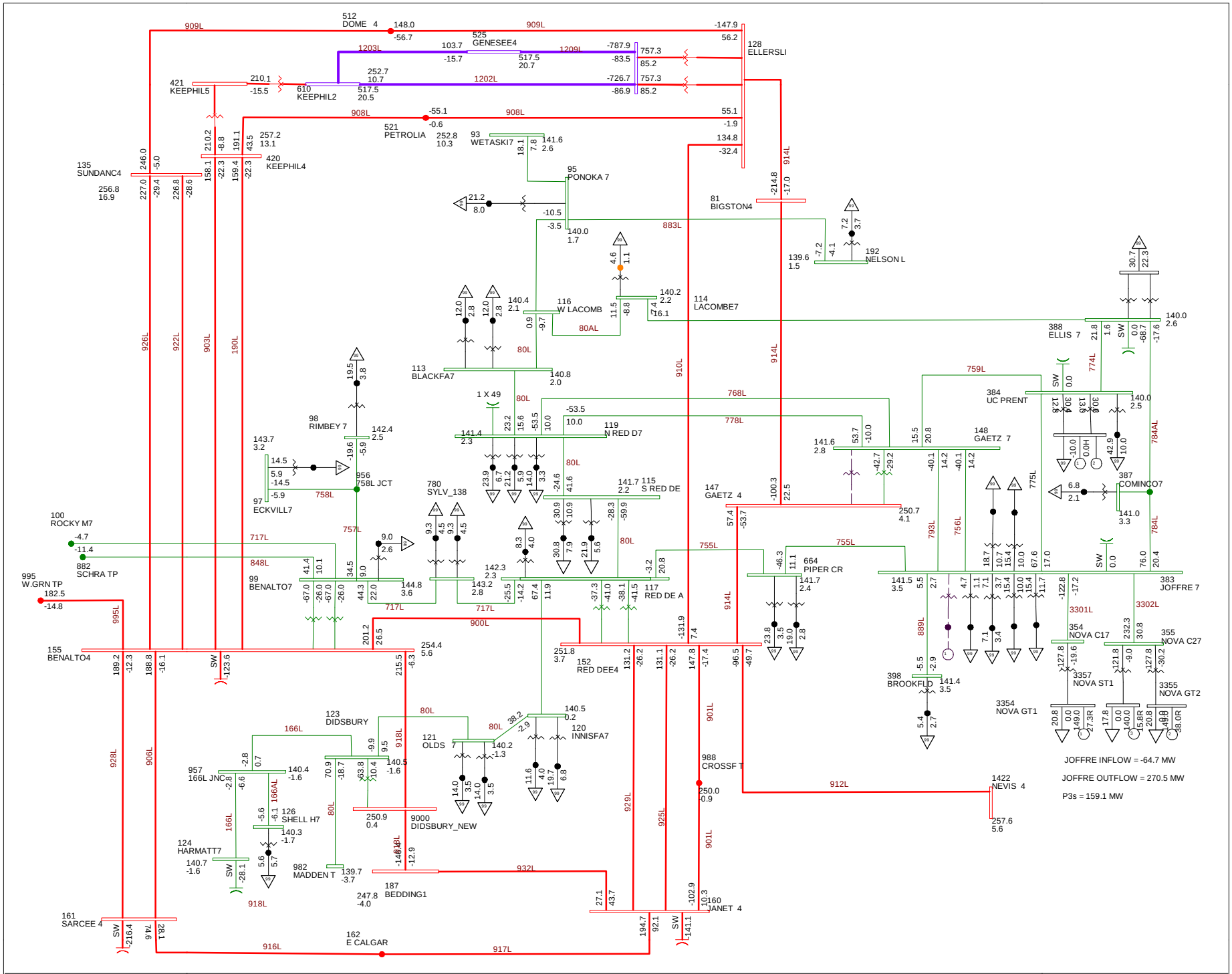
RED DEER REGION STUDY

2012 SUMMER PEAK BASE CASE REVISION 6.5

FIG 2012-ALT1-LOAD-SP-19
240 KV 918L (DIDSBURY SUB. (152S) TO BEDDINGTON 162S) OUTAGE
TUE, MAR 01 2011 14:55

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR

D-2012-64



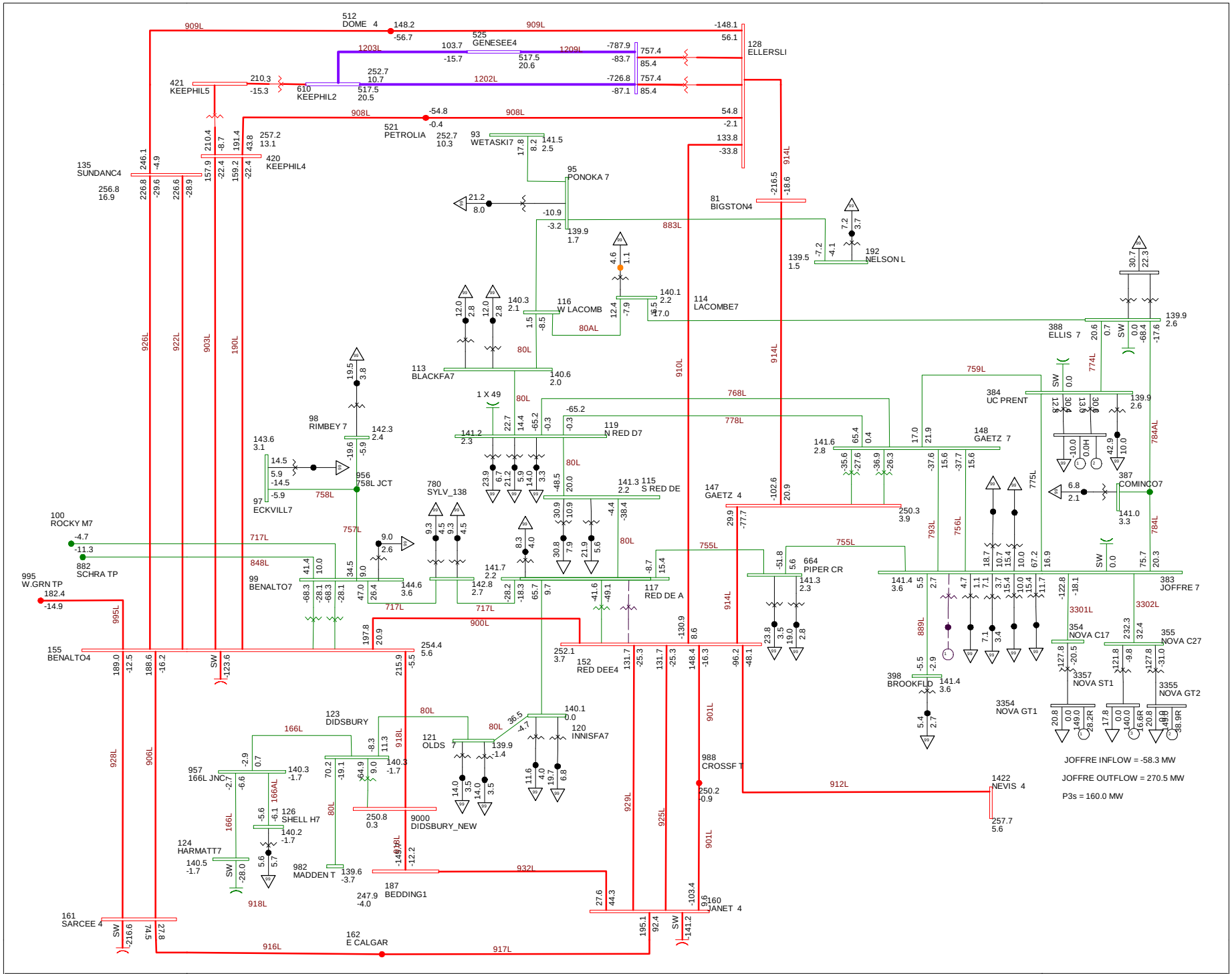
RED DEER REGION STUDY

2012 SUMMER PEAK BASE CASE REVISION 6.5

FIG 2012-ALT1-LOAD-SP-20
240/138KV TRANSFORMER AT GAETZ 87S OUTAGE
TUE, MAR 01 2011 14:55

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR

D-2012-65



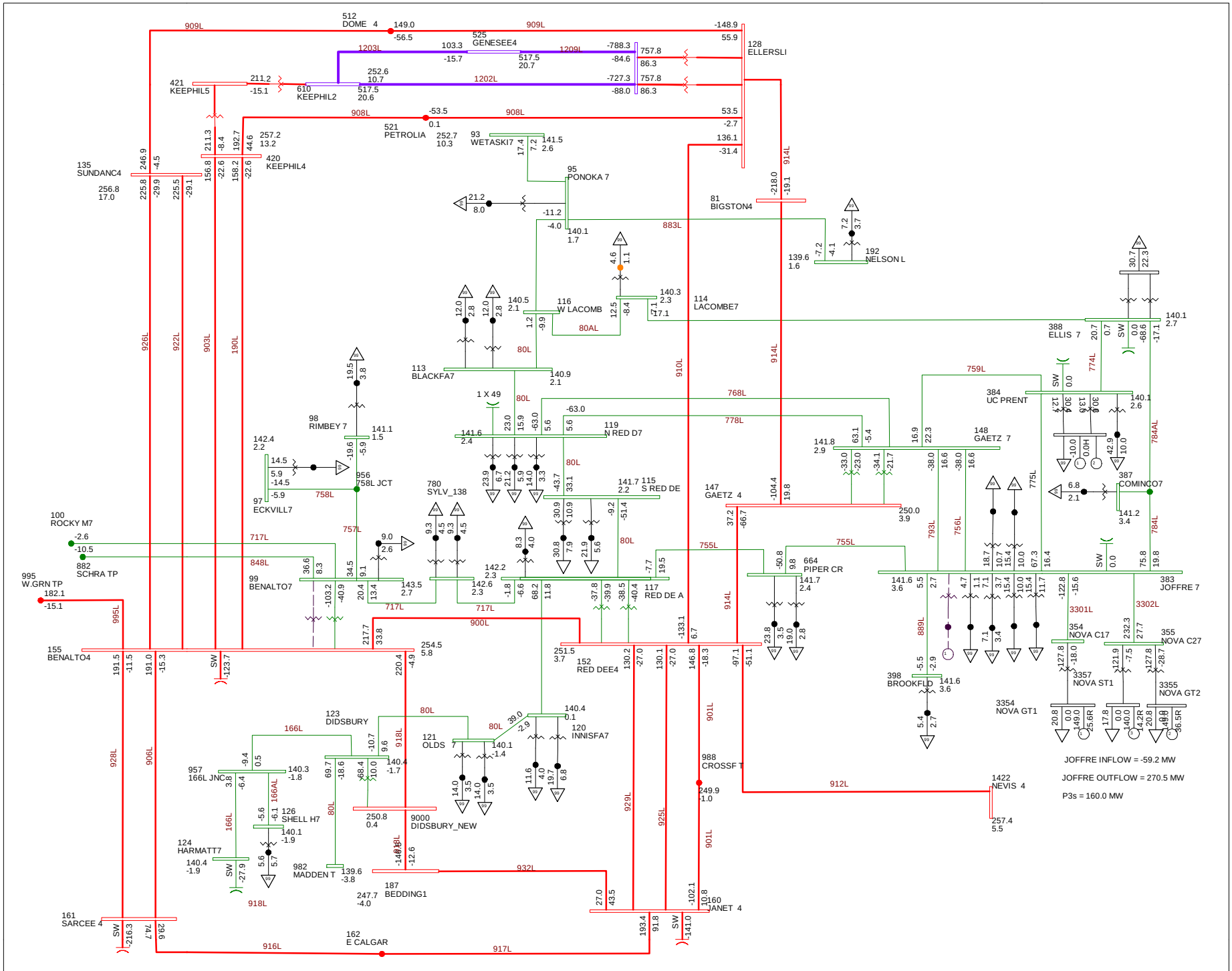
RED DEER REGION STUDY

2012 SUMMER PEAK BASE CASE REVISION 6.5

FIG 2012-ALT1-LOAD-SP-21
240/138KV TRANSFORMER AT RED DEER 63S OUTAGE
TUE, MAR 01 2011 14:56

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR

D-2012-66



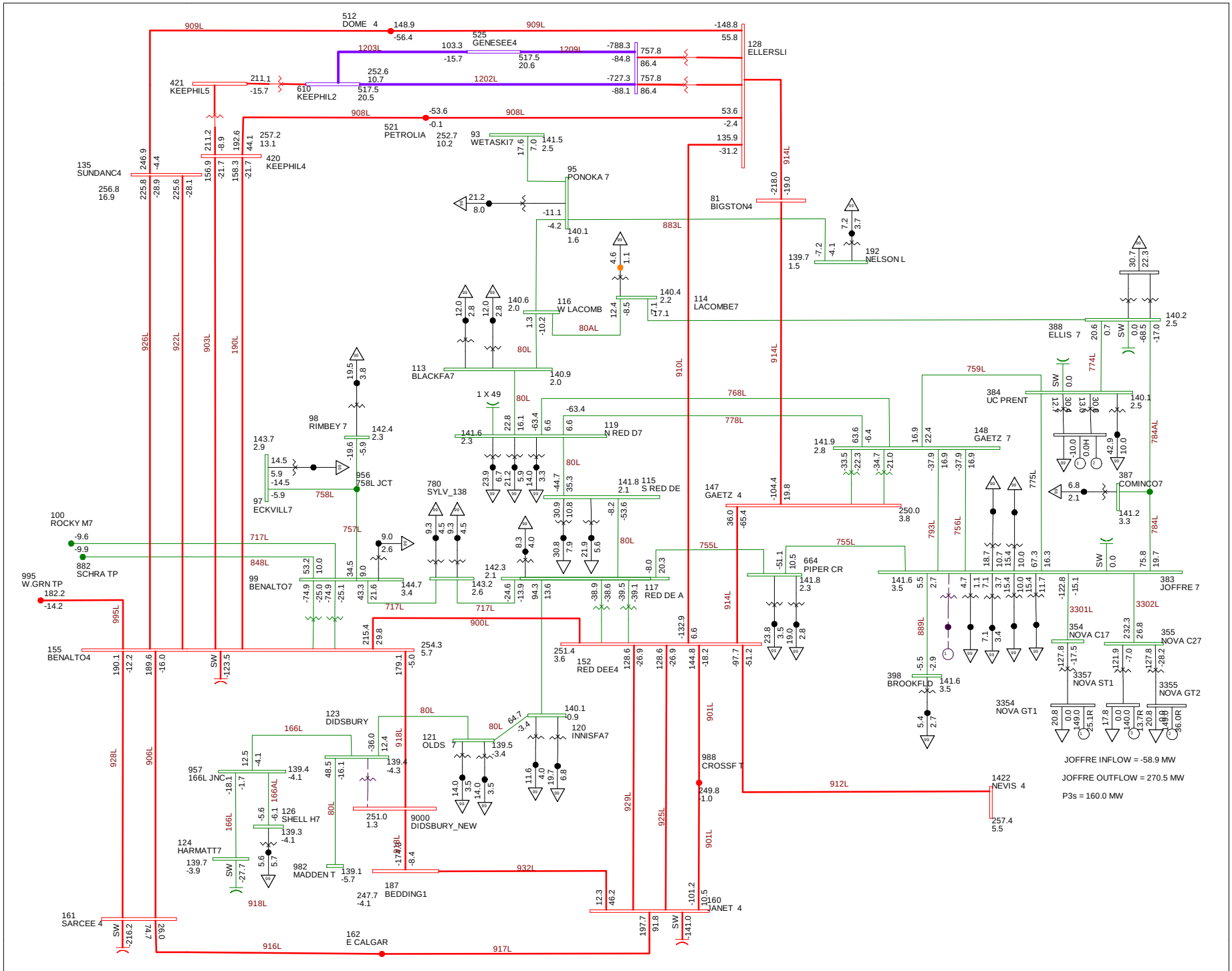
RED DEER REGION STUDY

2012 SUMMER PEAK BASE CASE REVISION 6.5

FIG 2012-ALT1-LOAD-SP-22
240/138KV TRANSFORMER AT BENALTO 17S OUTAGE
TUE, MAR 01 2011 14:56

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR

D-2012-67



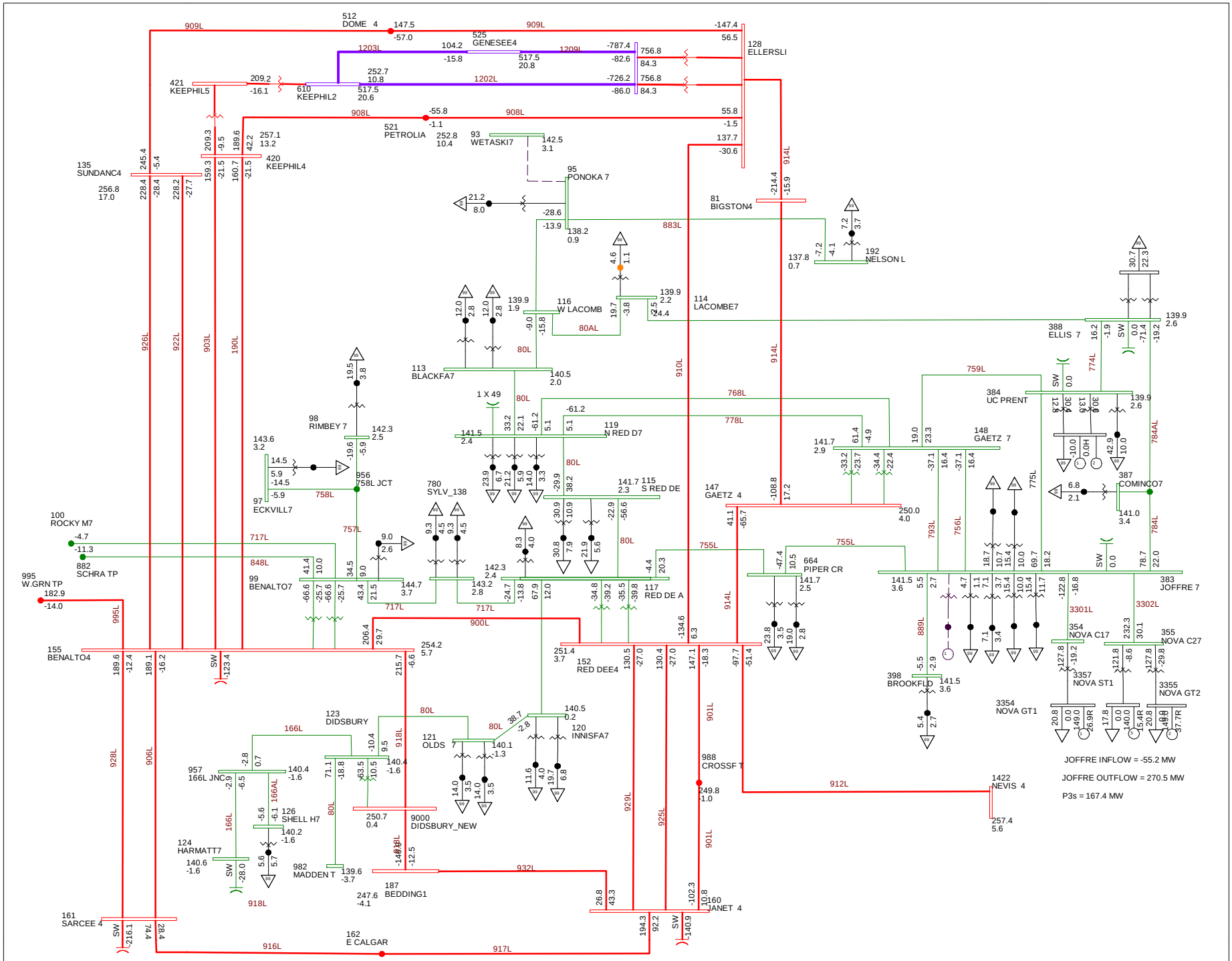
RED DEER REGION STUDY

2012 SUMMER PEAK BASE CASE REVISION 6.5

FIG 2012-ALT1-LOAD-SP-23
240/138KV TRANSFORMER AT DIDSBURY SUB. (152S) OUTAGE
TUE, MAR 01 2011 14:56

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR

D-2012-68



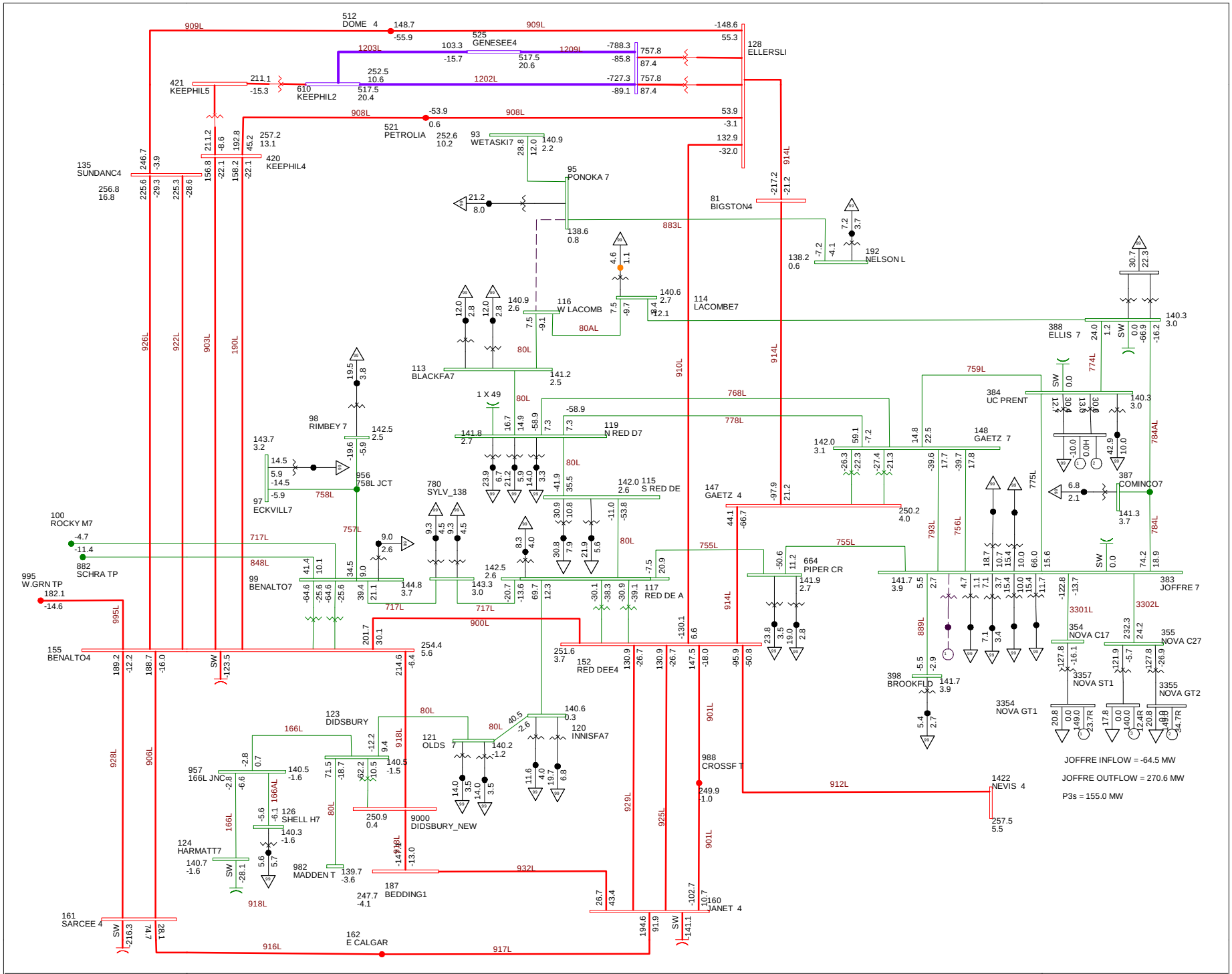
RED DEER REGION STUDY

2012 SUMMER PEAK BASE CASE REVISION 6.5

FIG 2012-ALT1-LOAD-SP-24
138 KV 716L (PONOKA 331S TO WETASKIWIN 40S) OUTAGE
TUE, MAR 01 2011 14:56

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR

D-2012-69



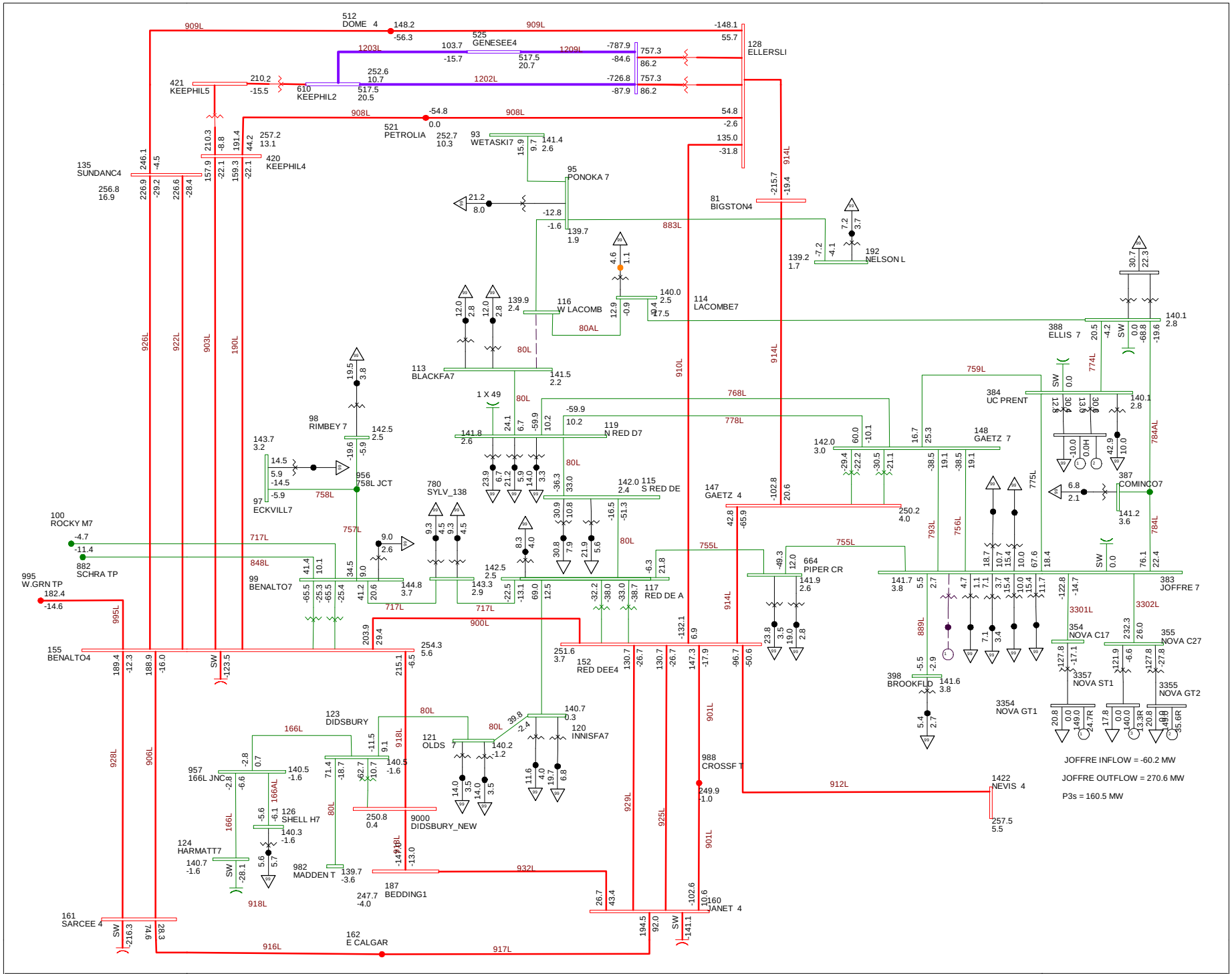
RED DEER REGION STUDY

2012 SUMMER PEAK BASE CASE REVISION 6.5

FIG 2012-ALT1-LOAD-SP-25
138 KV 80L (PONOKA 331S TO W. LACOMBE 958S) OUTAGE
TUE, MAR 01 2011 14:56

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR

D-2012-70



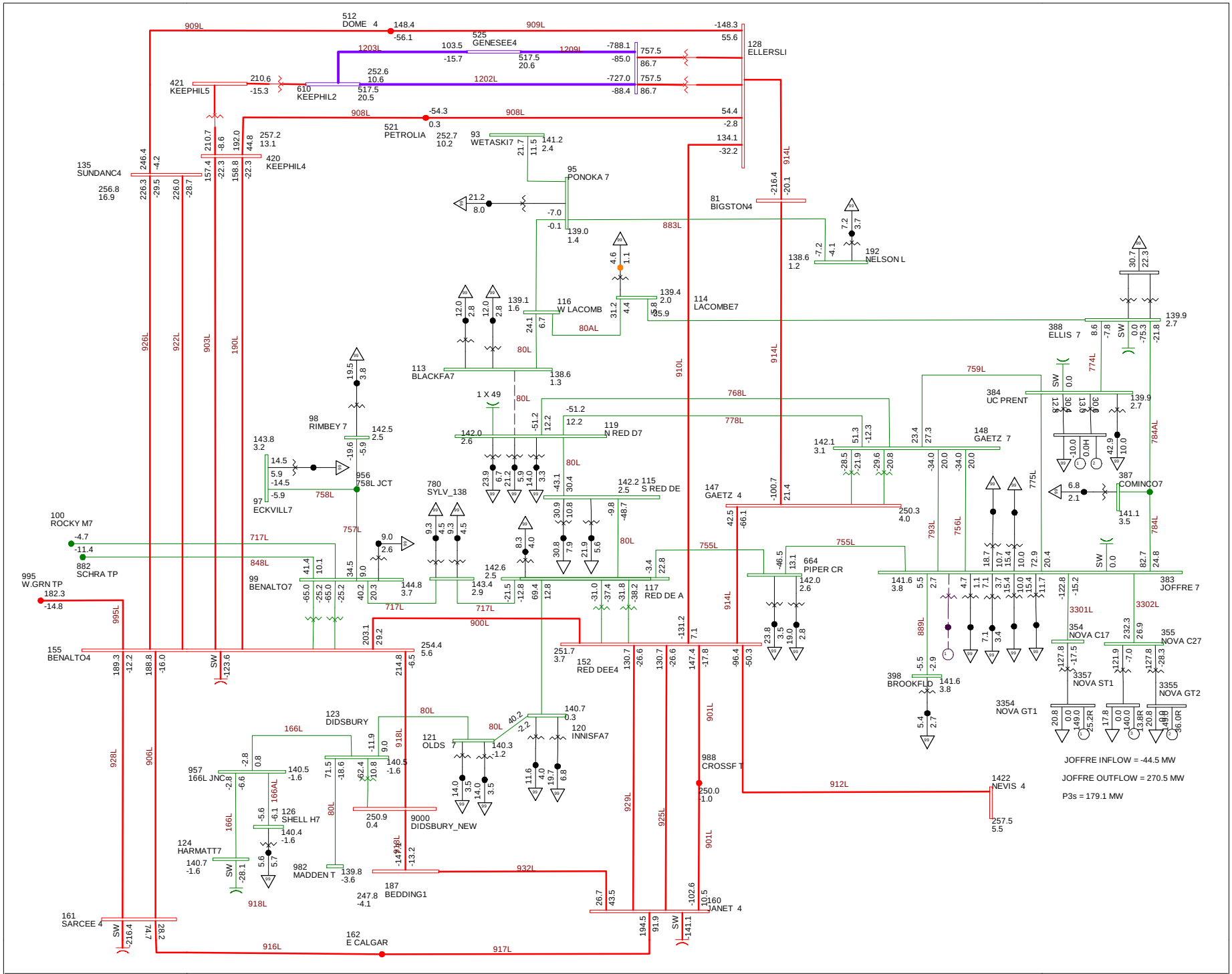
RED DEER REGION STUDY

2012 SUMMER PEAK BASE CASE REVISION 6.5

FIG 2012-ALT1-LOAD-SP-26
138 KV 80L (W. LACOMBE 958S TO BLACKFALDS 198S) OUTAGE
TUE, MAR 01 2011 14:56

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR

D-2012-71



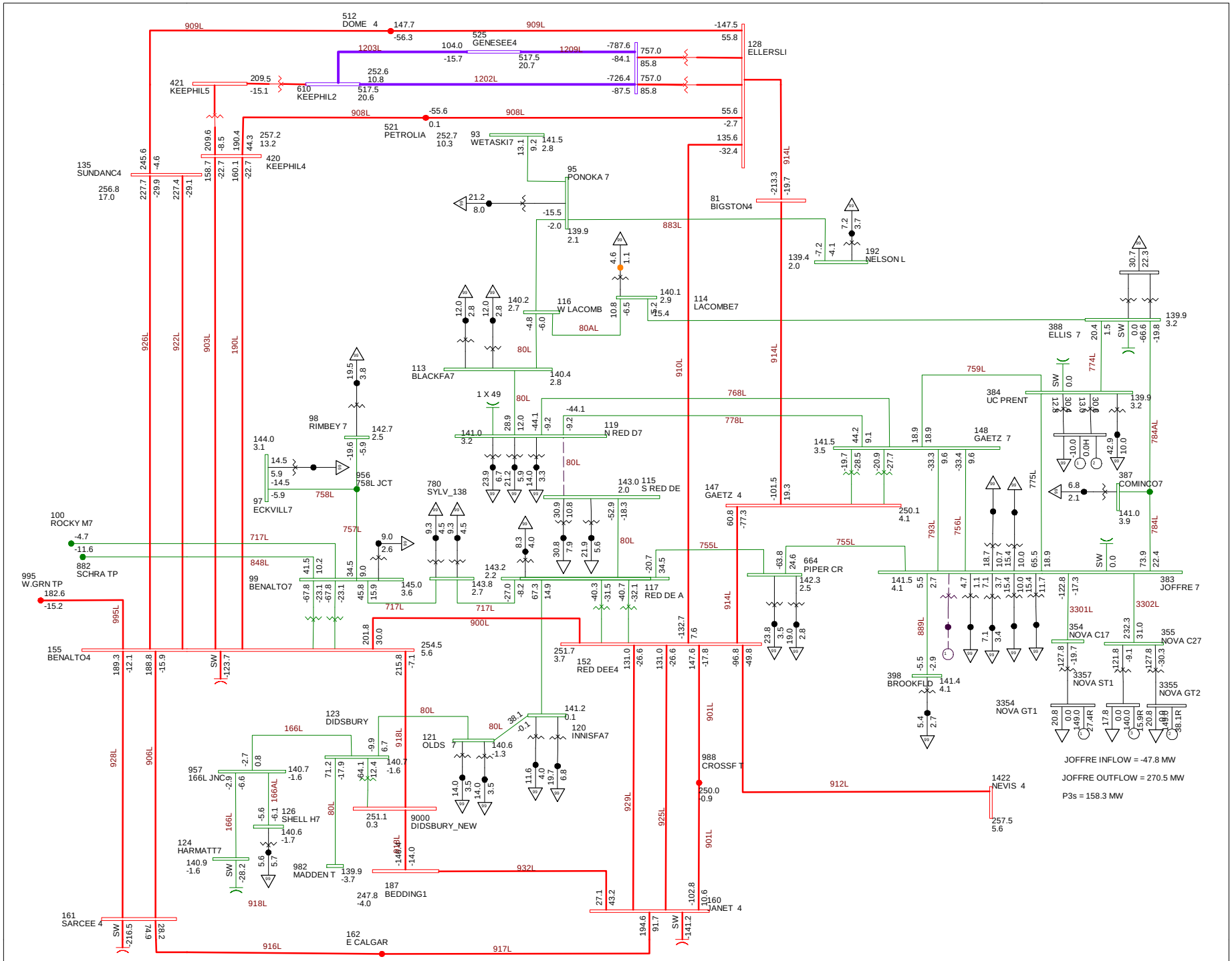
RED DEER REGION STUDY

2012 SUMMER PEAK BASE CASE REVISION 6.5

FIG 2012-ALT1-LOAD-SP-27
138 KV 80L (BLACKFALDS 198S TO N. RED DEER 217S) OUTAGE
TUE, MAR 01 2011 14:56

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR

D-2012-72



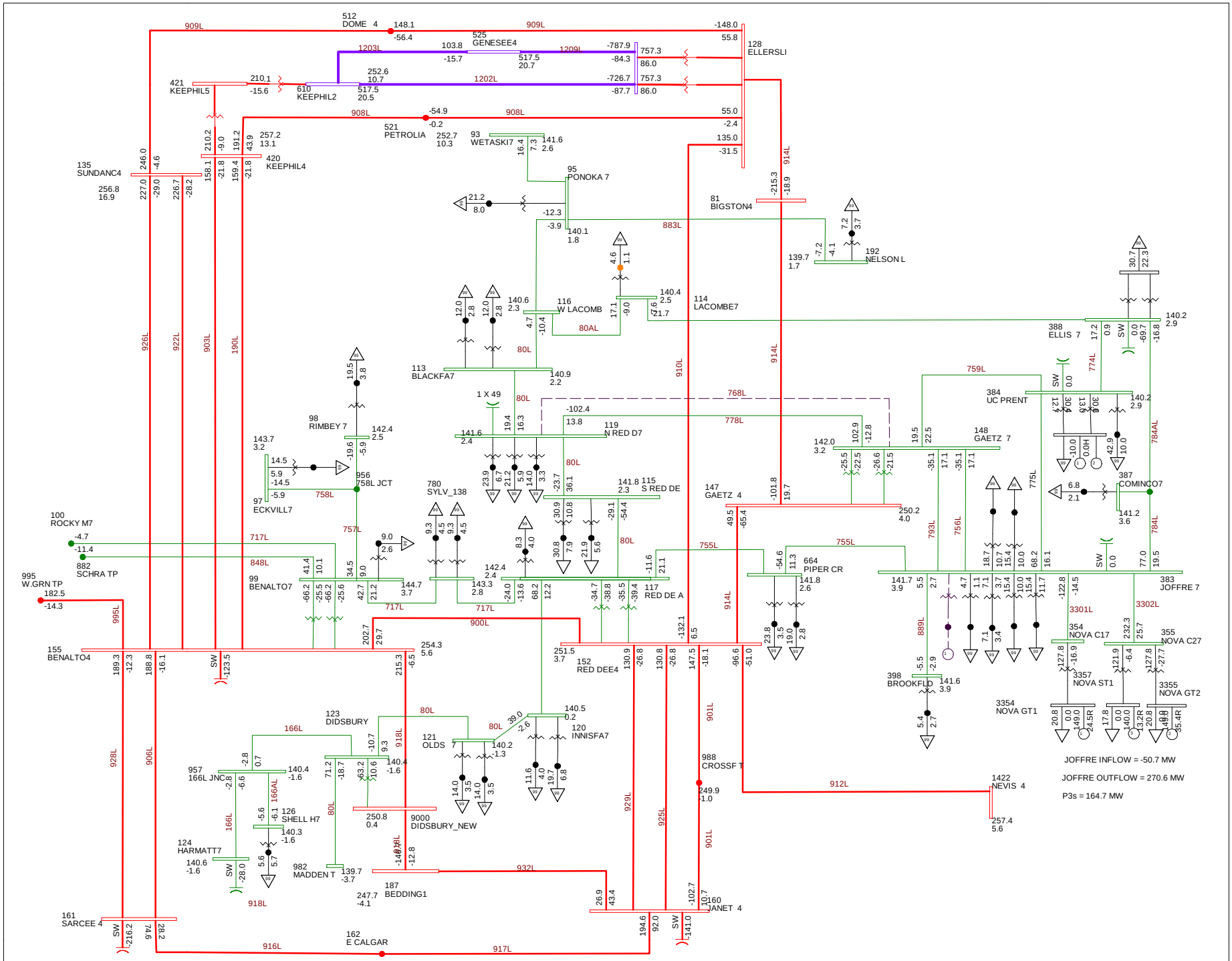
RED DEER REGION STUDY

2012 SUMMER PEAK BASE CASE REVISION 6.5

FIG 2012-ALT1-LOAD-SP-28
138 KV 80L (N. RED DEER 217S TO S. RED DEER 194S) OUTAGE
TUE, MAR 01 2011 14:56

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR

D-2012-73



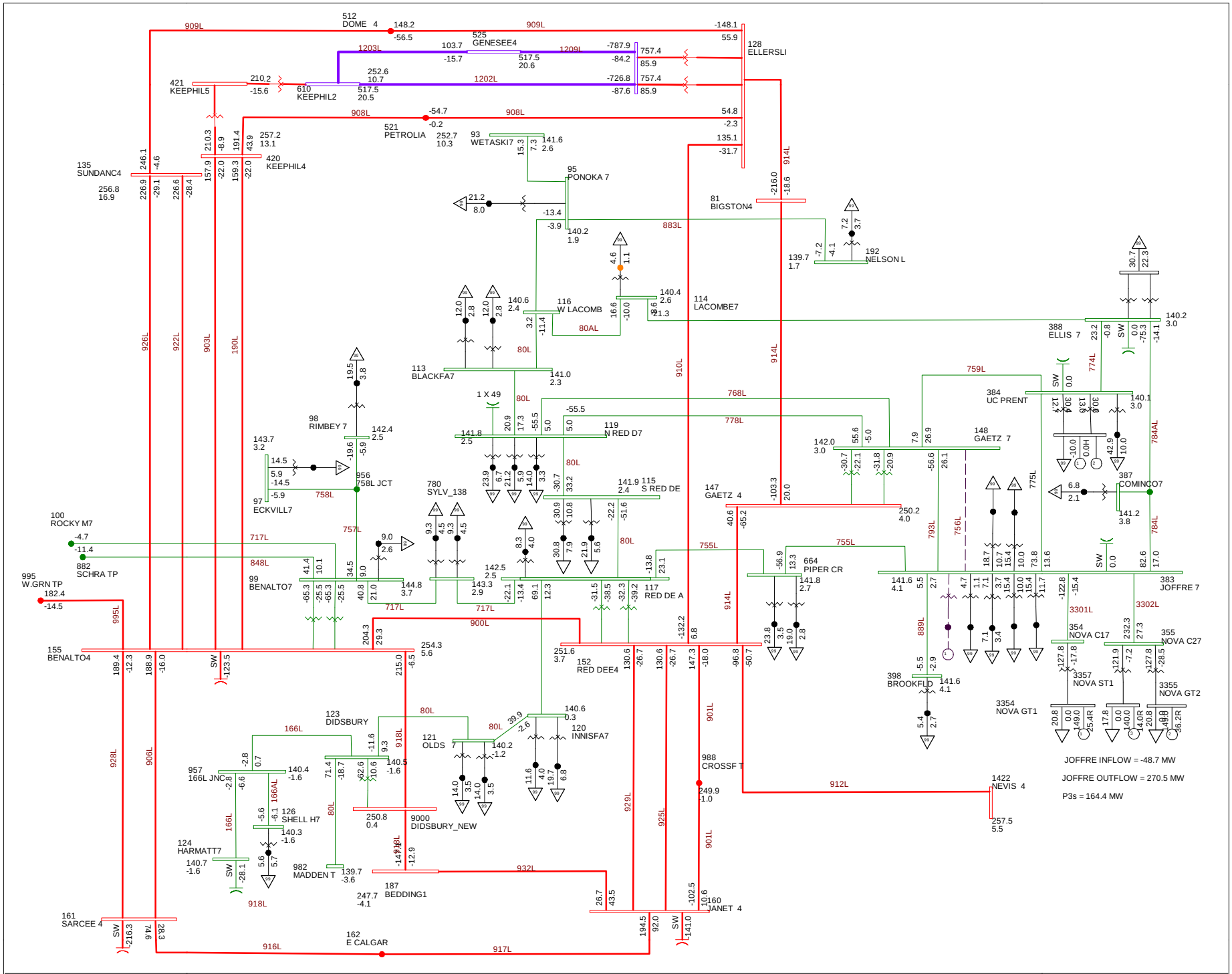
RED DEER REGION STUDY

2012 SUMMER PEAK BASE CASE REVISION 6.5

FIG 2012-ALT1-LOAD-SP-29
138 KV 768L (N. RED DEER 217S TO GAETZ 87S) OUTAGE
TUE, MAR 01 2011 14:56

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR

D-2012-74



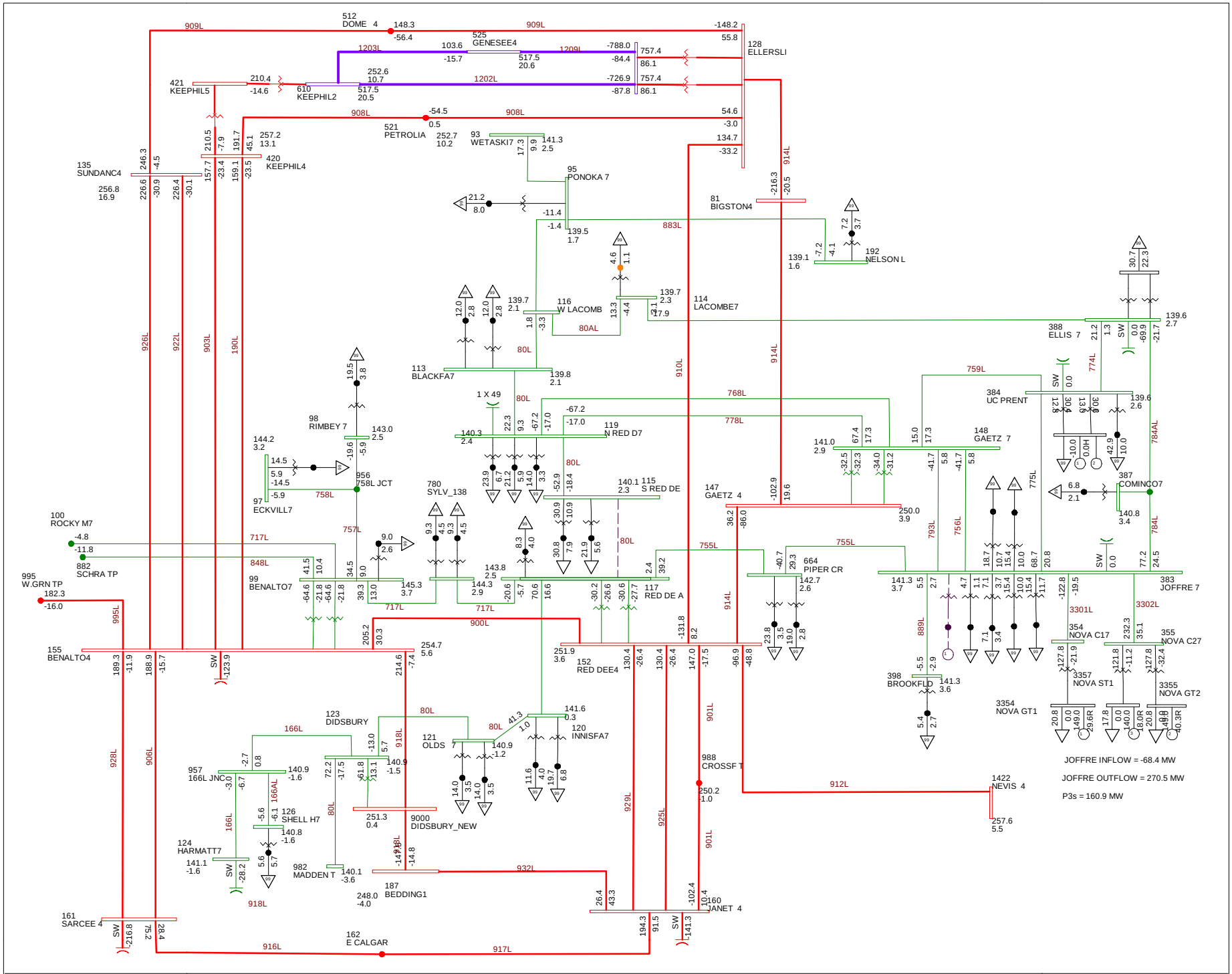
RED DEER REGION STUDY

2012 SUMMER PEAK BASE CASE REVISION 6.5

FIG 2012-ALT1-LOAD-SP-30
138 KV 793/756L (GAETZ 87S TO JOFFRE 535S) OUTAGE
TUE, MAR 01 2011 14:56

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR

D-2012-75



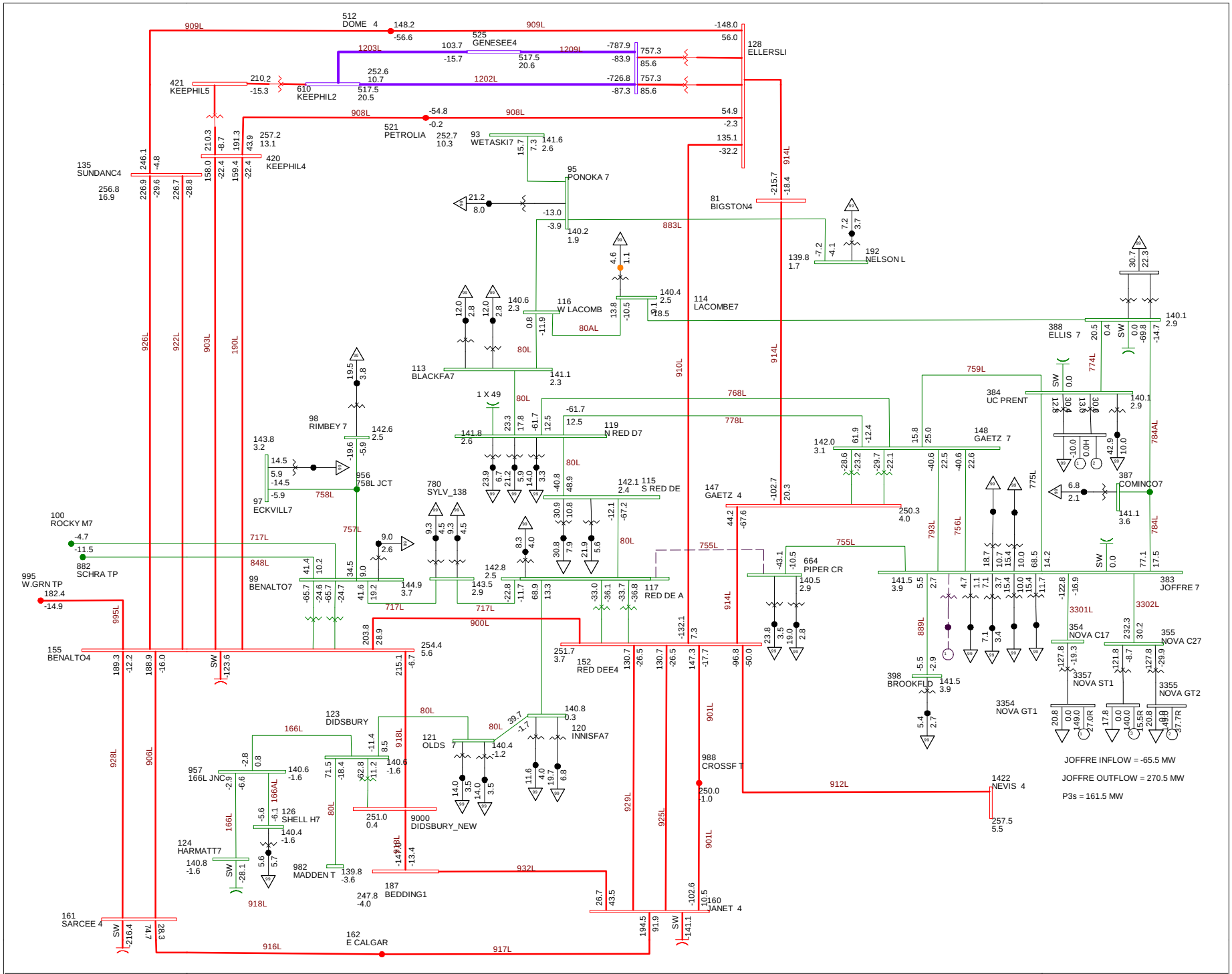
RED DEER REGION STUDY

2012 SUMMER PEAK BASE CASE REVISION 6.5

FIG 2012-ALT1-LOAD-SP-31
138 KV 80L (S. RED DEER 194S TO RED DEER 63S) OUTAGE
TUE, MAR 01 2011 14:56

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR

D-2012-76



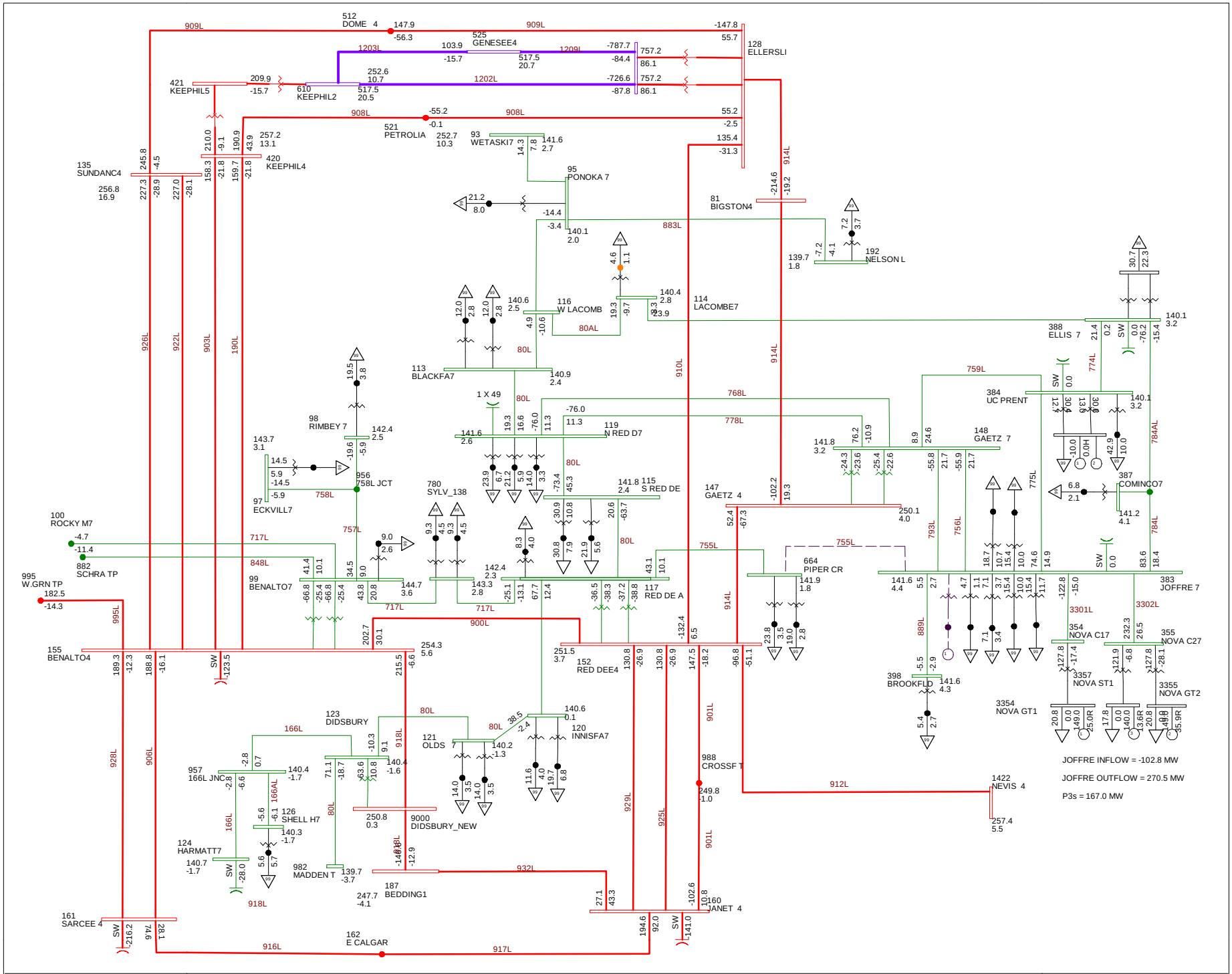
RED DEER REGION STUDY

2012 SUMMER PEAK BASE CASE REVISION 6.5

FIG 2012-ALT1-LOAD-SP-32
138 KV 755L (RED DEER 63S TO PIPER CREEK 247S) OUTAGE
TUE, MAR 01 2011 14:56

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR

D-2012-77



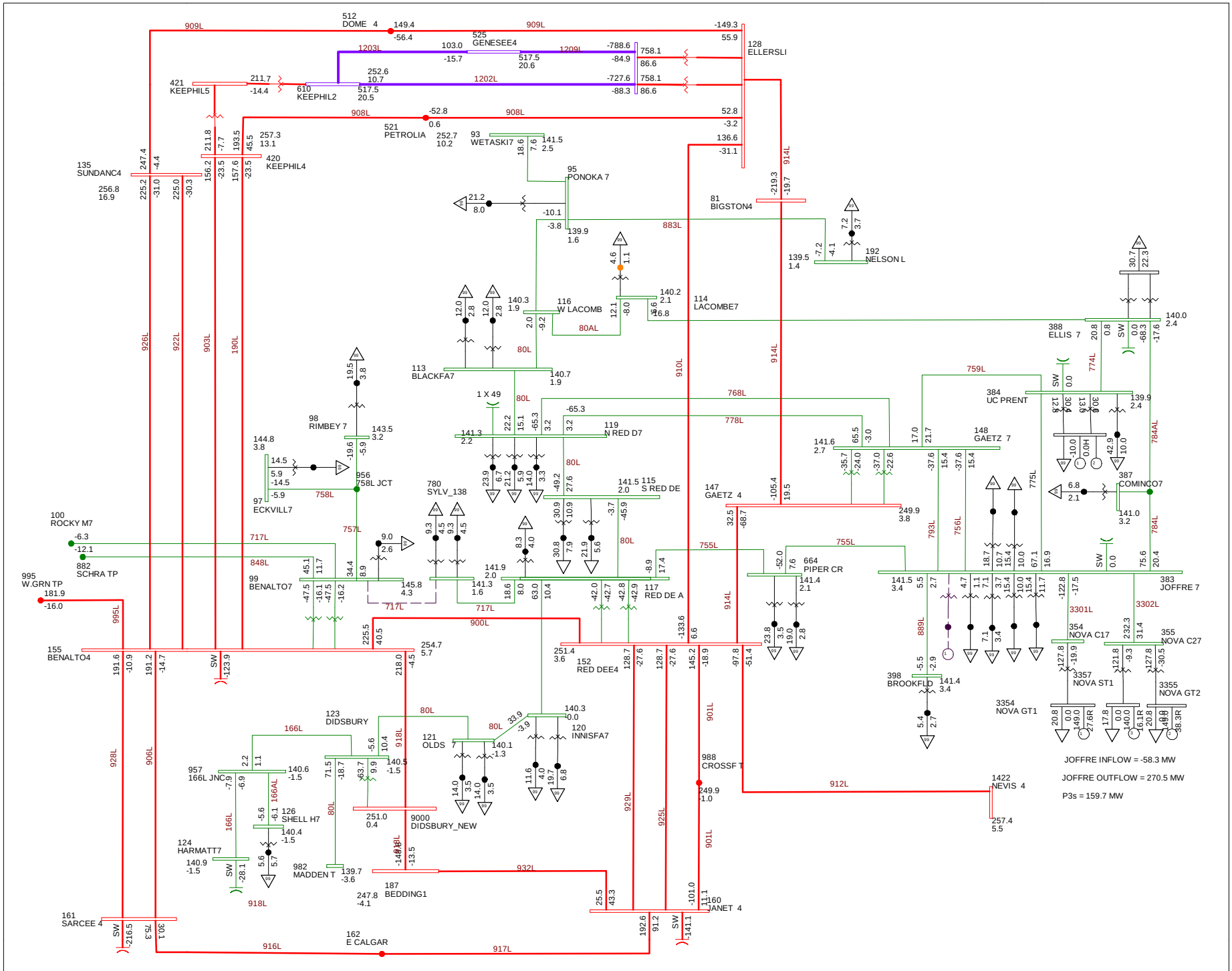
RED DEER REGION STUDY

2012 SUMMER PEAK BASE CASE REVISION 6.5

FIG 2012-ALT1-LOAD-SP-33
138 KV 755L (JOFFRE 535S TO PIPER CREEK 247S) OUTAGE
TUE, MAR 01 2011 14:56

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR

D-2012-78



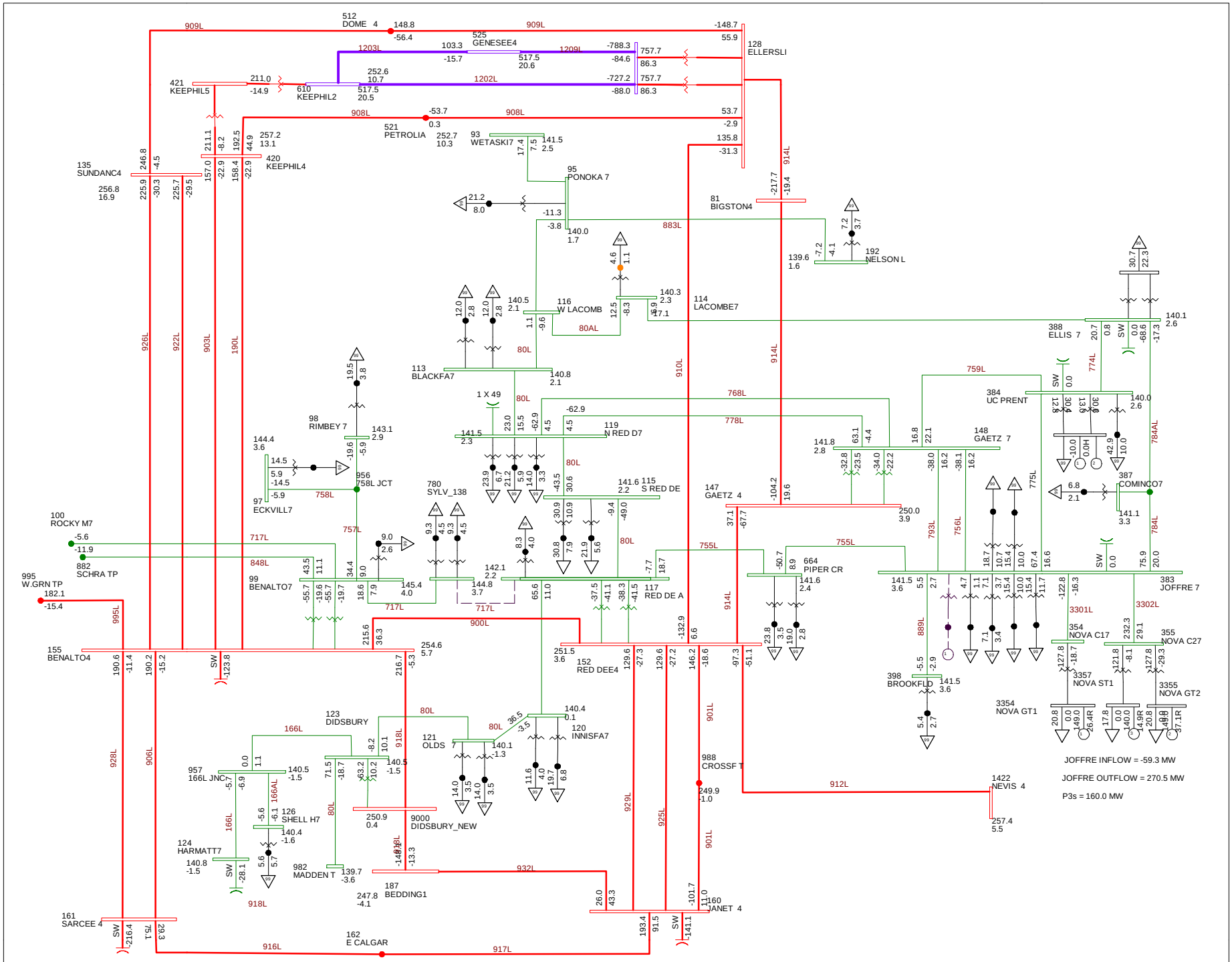
RED DEER REGION STUDY

2012 SUMMER PEAK BASE CASE REVISION 6.5

FIG 2012-ALT1-LOAD-SP-34
138 KV 717L (BENALTO 17S TO SYLVAN LAKE 580S) OUTAGE
TUE, MAR 01 2011 14:56

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR

D-2012-79



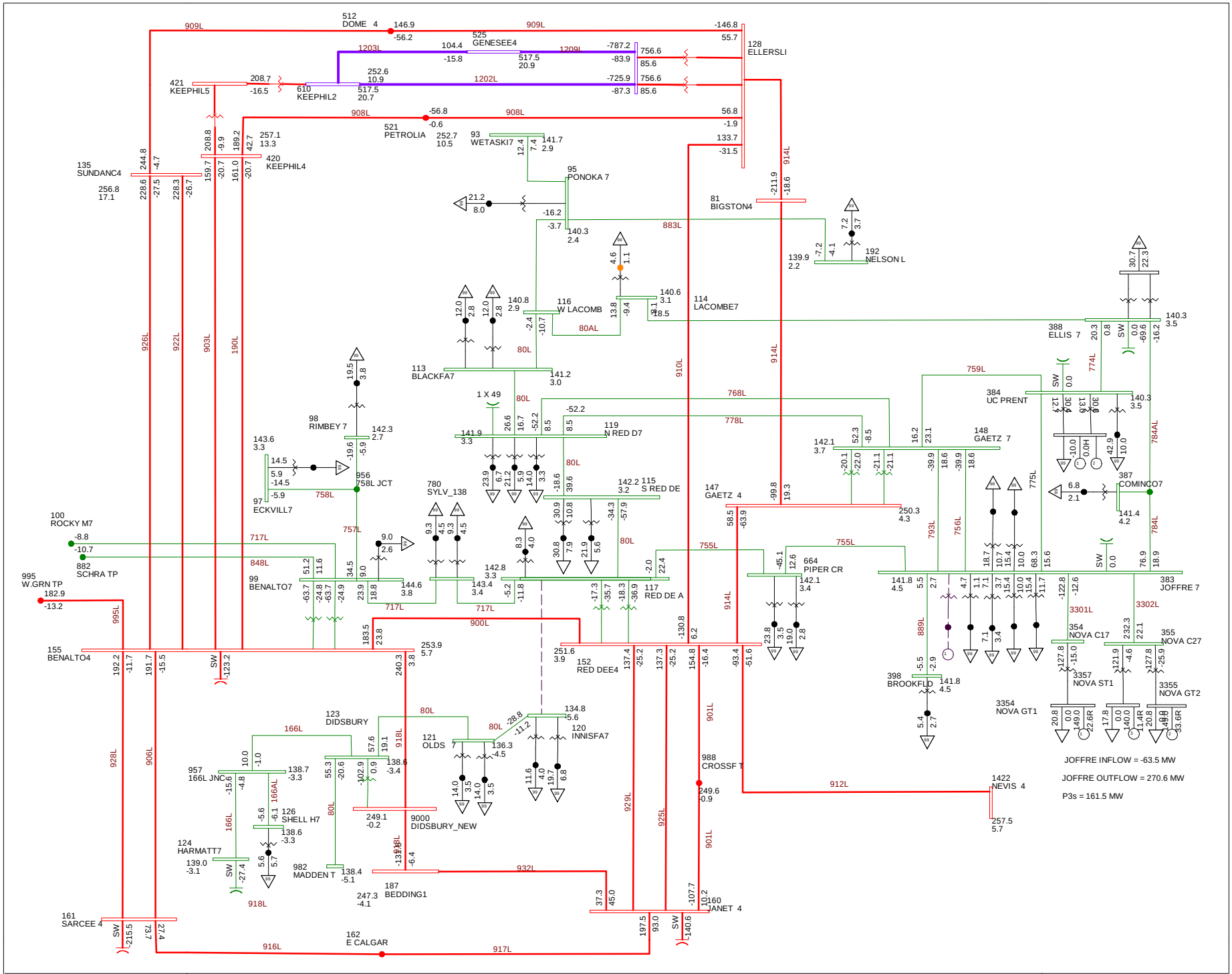
RED DEER REGION STUDY

2012 SUMMER PEAK BASE CASE REVISION 6.5

FIG 2012-ALT1-LOAD-SP-35
138 KV 717L (RED DEER 63S TO SYLVAN LAKE 580S) OUTAGE
TUE, MAR 01 2011 14:56

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR

D-2012-80



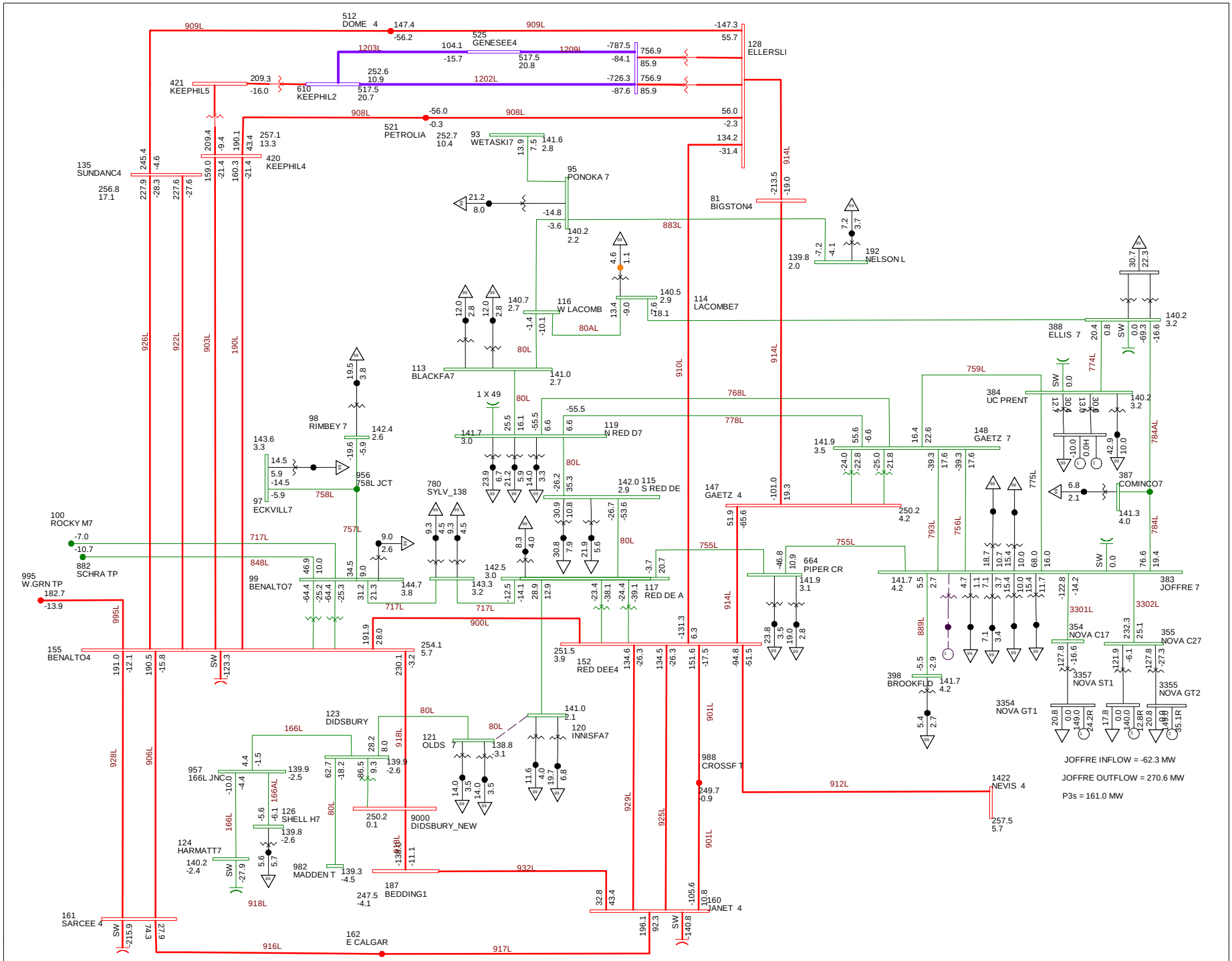
RED DEER REGION STUDY

2012 SUMMER PEAK BASE CASE REVISION 6.5

FIG 2012-ALT1-LOAD-SP-36
138 KV 80L (RED DEER 63S TO INNISFAIL 214S) OUTAGE
TUE, MAR 01 2011 14:56

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR

D-2012-81



RED DEER REGION STUDY

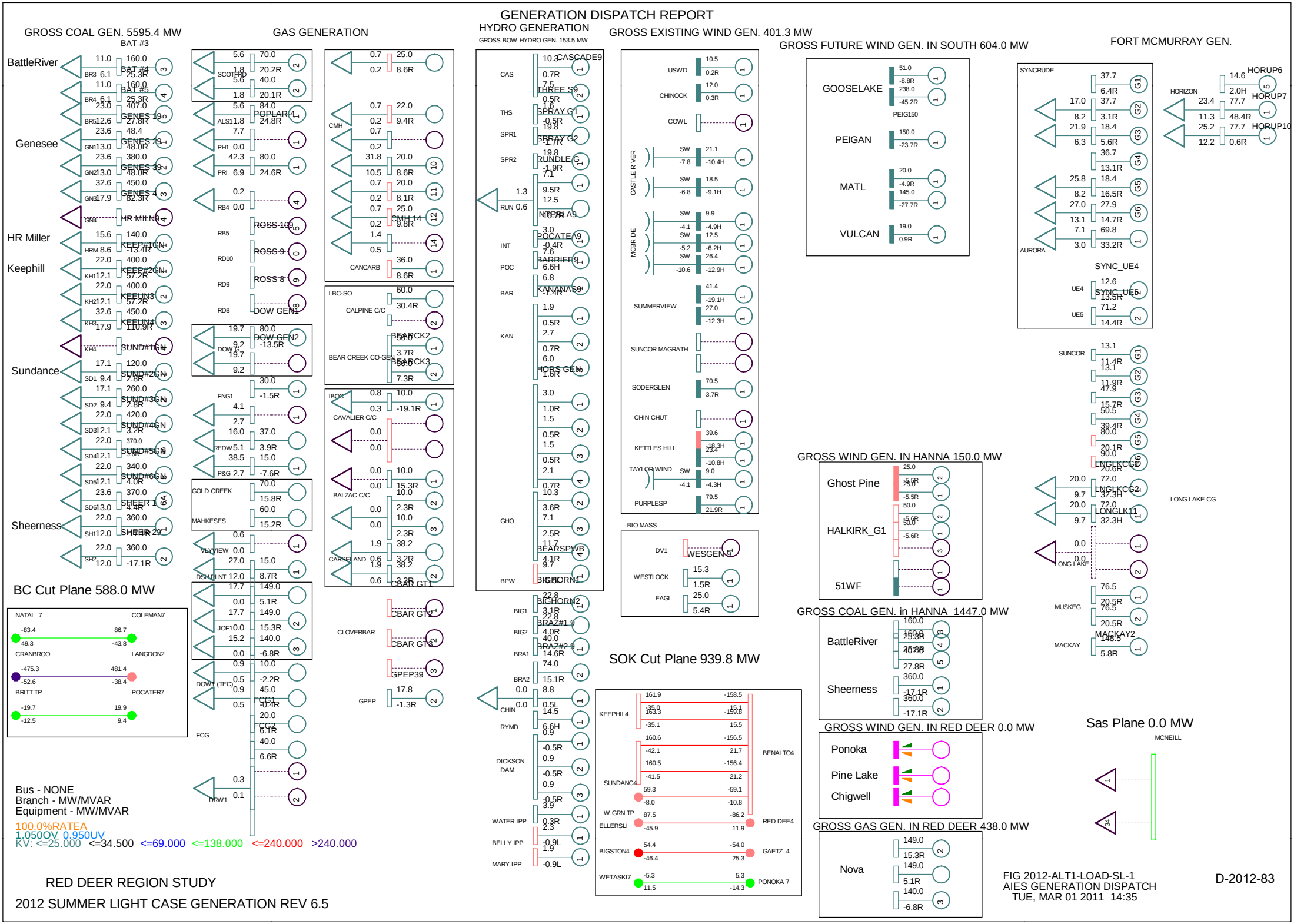
2012 SUMMER PEAK BASE CASE REVISION 6.5

FIG 2012-ALT1-LOAD-SP-37
138 KV 80L (INNISFAIL 214S TO OLDS 55S) OUTAGE
TUE, MAR 01 2011 14:56

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR

D-2012-82

GENERATION DISPATCH REPORT

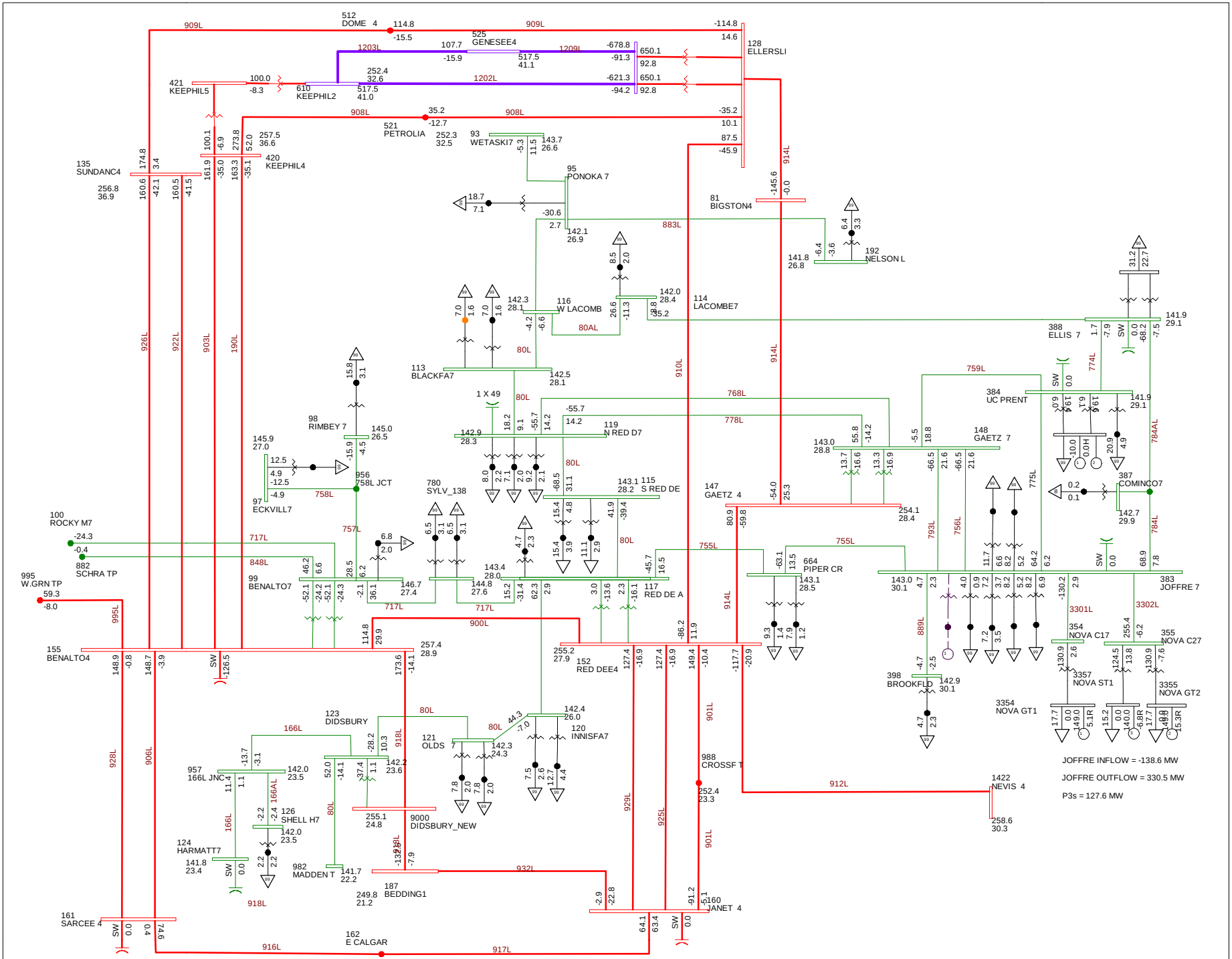


RED DEER REGION STUDY

2012 SUMMER LIGHT CASE GENERATION REV 6.5

FIG 2012-ALT1-LOAD-SL-1
AIES GENERATION DISPATCH
TUE, MAR 01 2011 14:35

D-2012-83



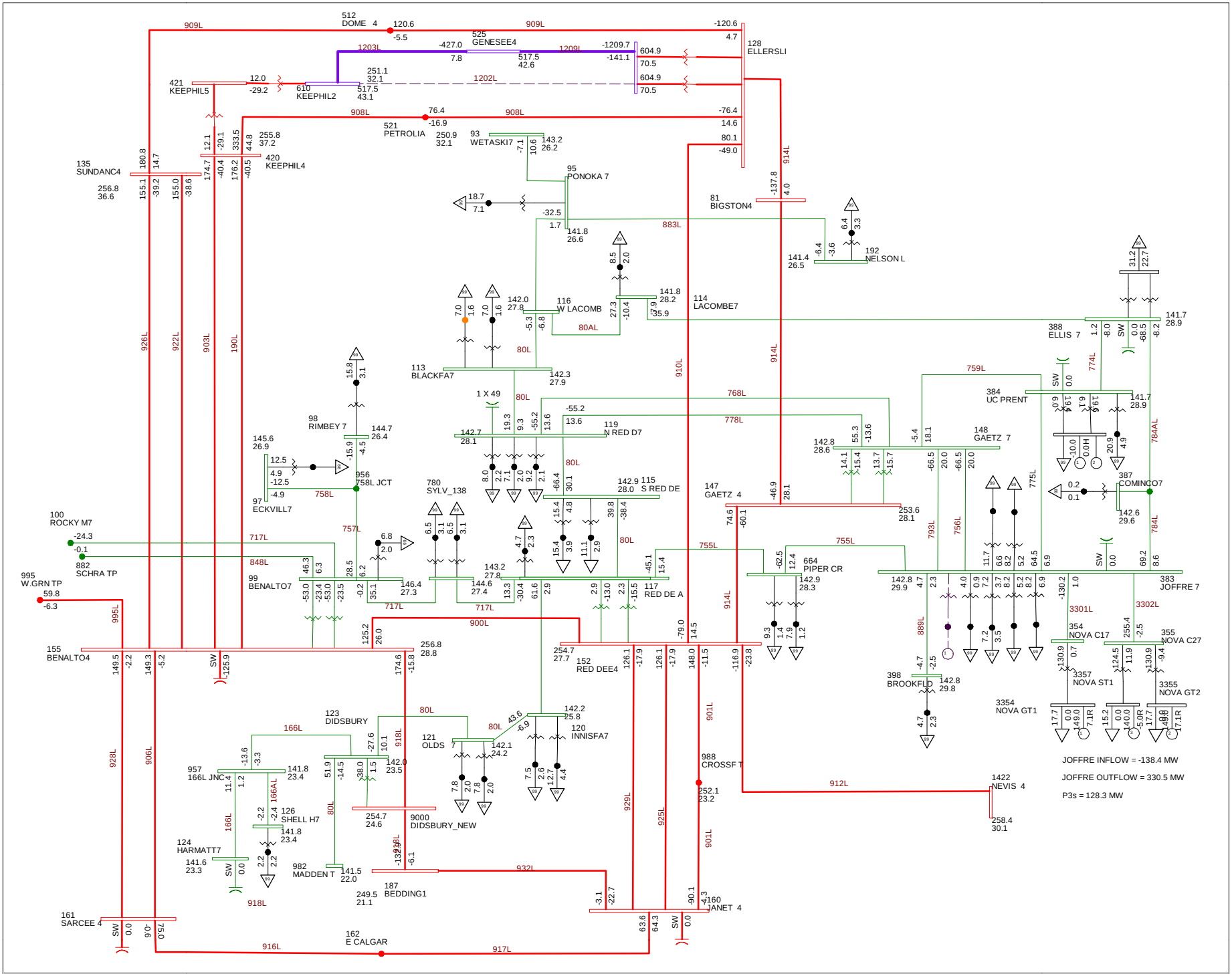
RED DEER REGION STUDY

2012 SUMMER LIGHT BASE CASE REVISION 6.5

FIG 2012-ALT1-LOAD-SL-2
ALL ELEMENTS IN SERVICE
TUE, MAR 01 2011 14:35

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR

D-2012-84



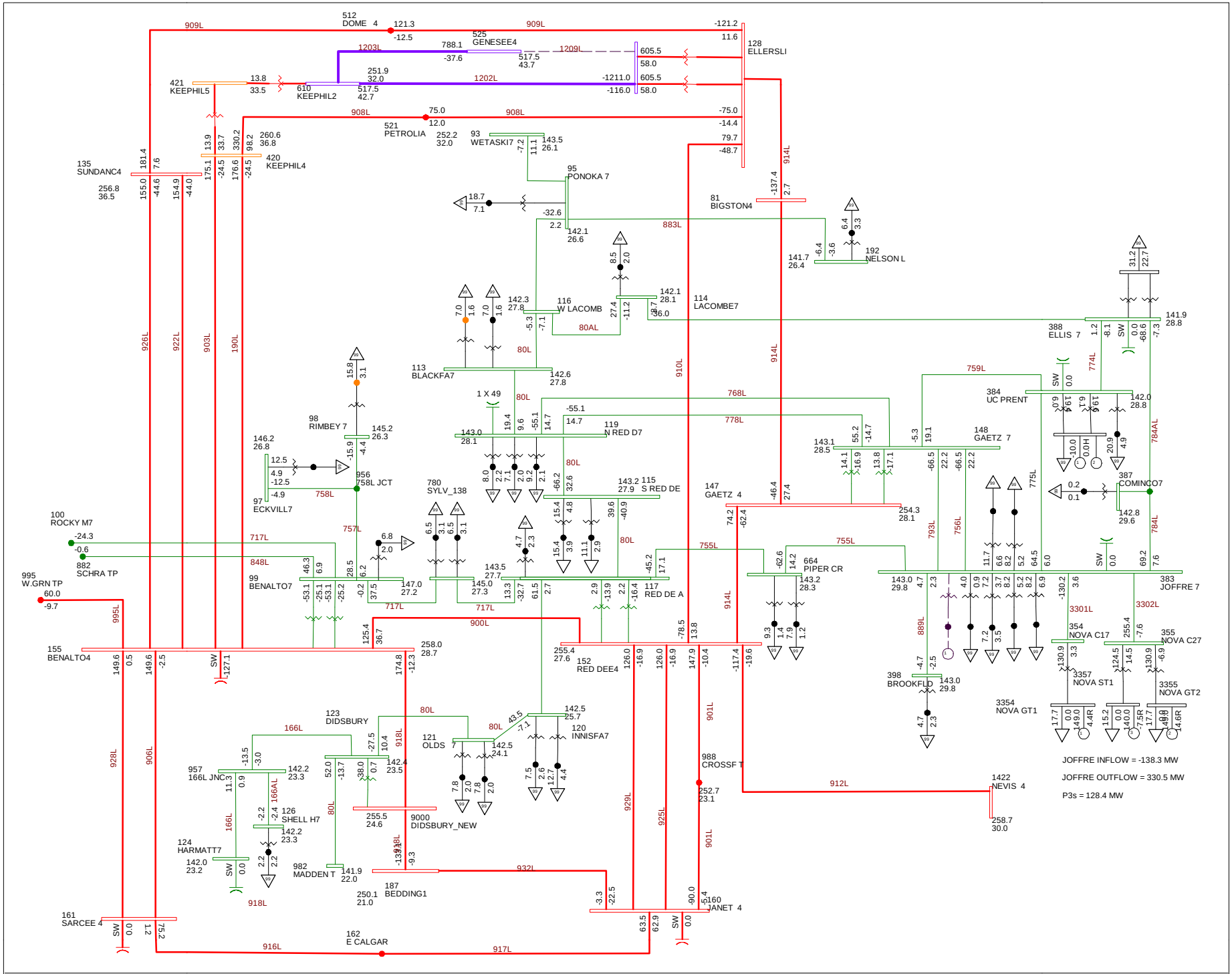
RED DEER REGION STUDY

2012 SUMMER LIGHT BASE CASE REVISION 6.5

FIG 2012-ALT1-LOAD-SL-3
500KV 1202L (ELLERSLIE 89S TO KEEPHILLS 320P) OUTAGE
TUE, MAR 01 2011 14:35

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR

D-2012-85



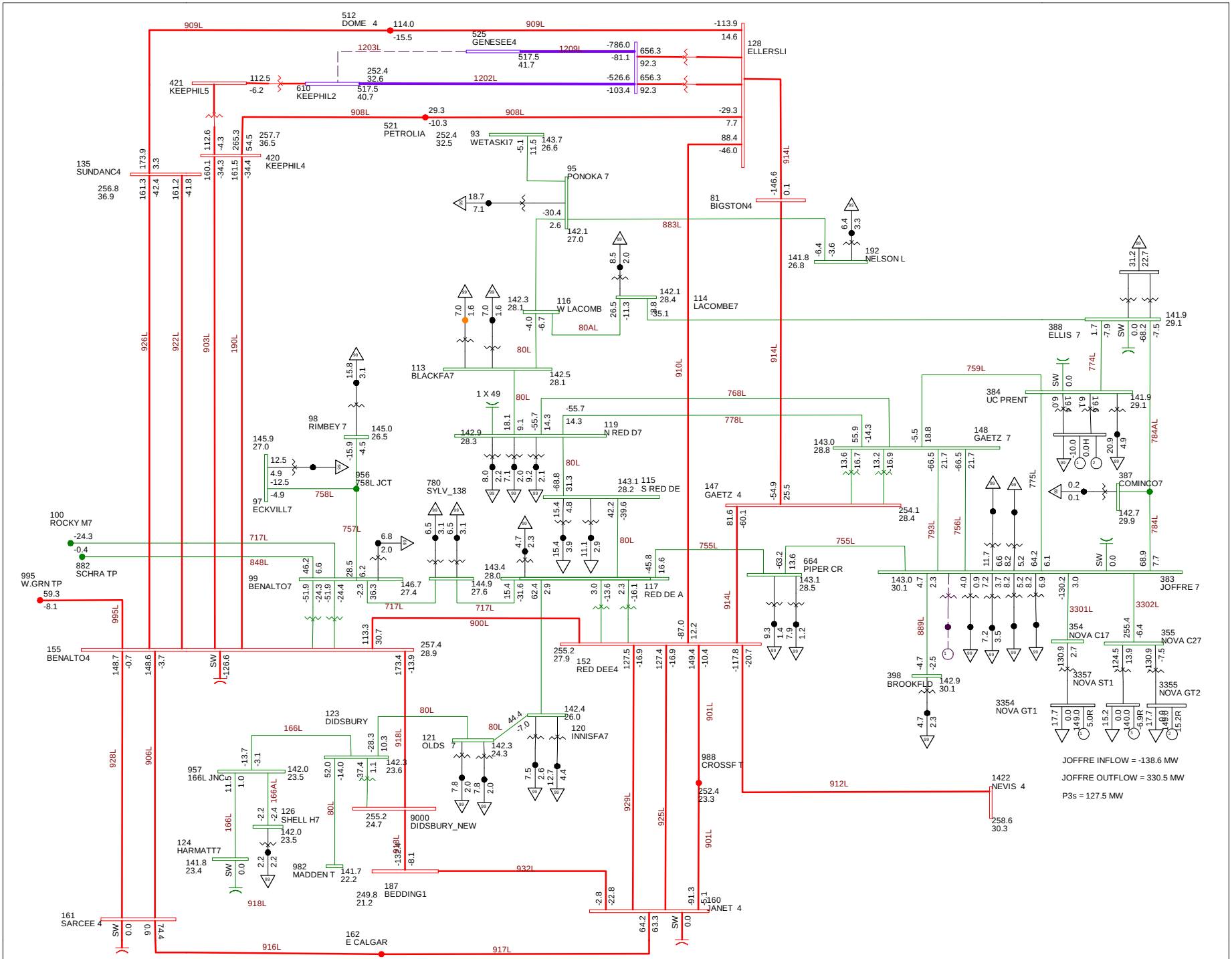
RED DEER REGION STUDY

2012 SUMMER LIGHT BASE CASE REVISION 6.5

FIG 2012-ALT1-LOAD-SL-4
500KV 1209L (ELLERSLIE 89S TO GENESEE E330P) OUTAGE
TUE, MAR 01 2011 14:35

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR

D-2012-86



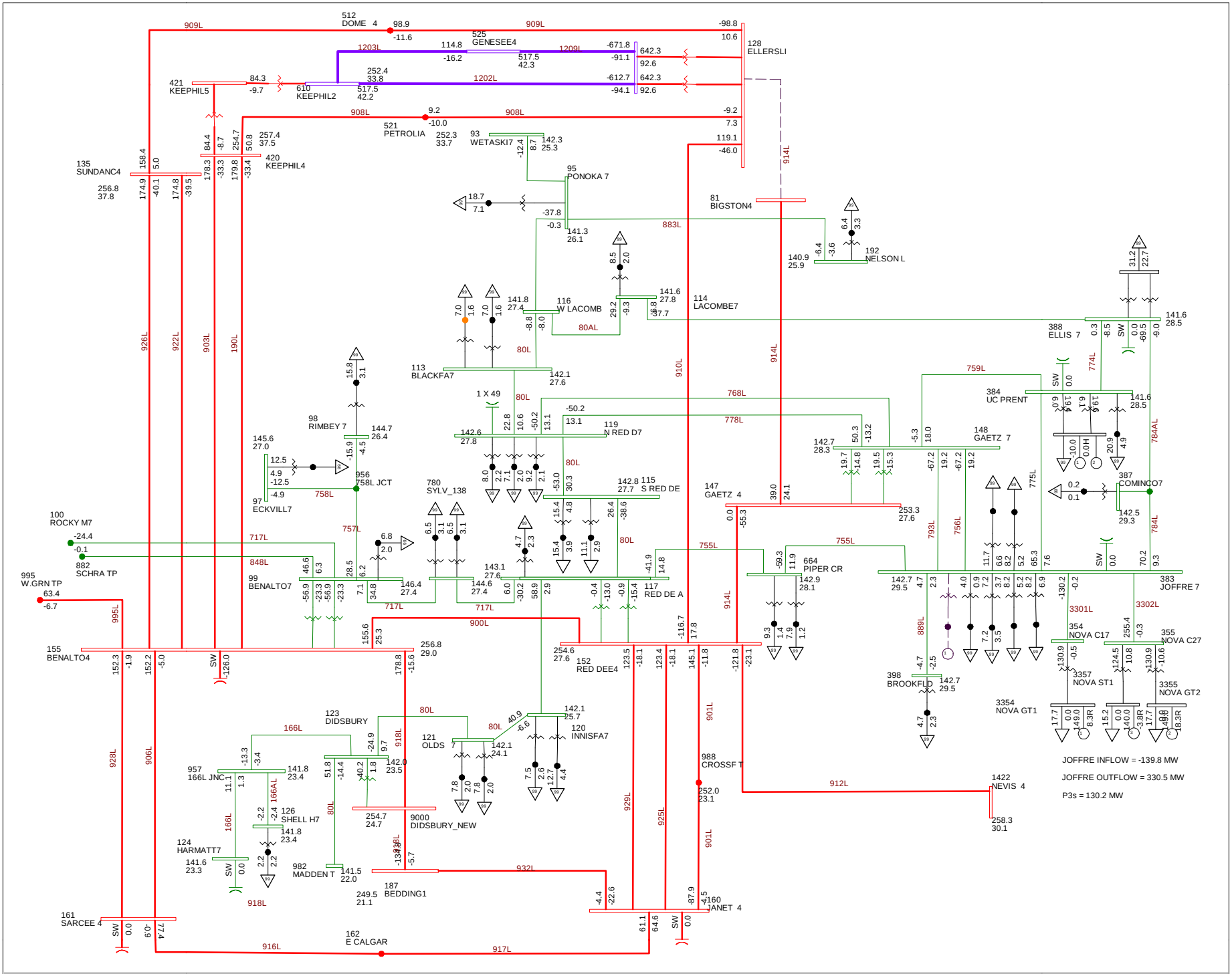
RED DEER REGION STUDY

2012 SUMMER LIGHT BASE CASE REVISION 6.5

FIG 2012-ALT1-LOAD-SL-5
500KV 1203L (GENESEE E330P TO KEEPHILLS 320P) OUTAGE
TUE, MAR 01 2011 14:35

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR

D-2012-87



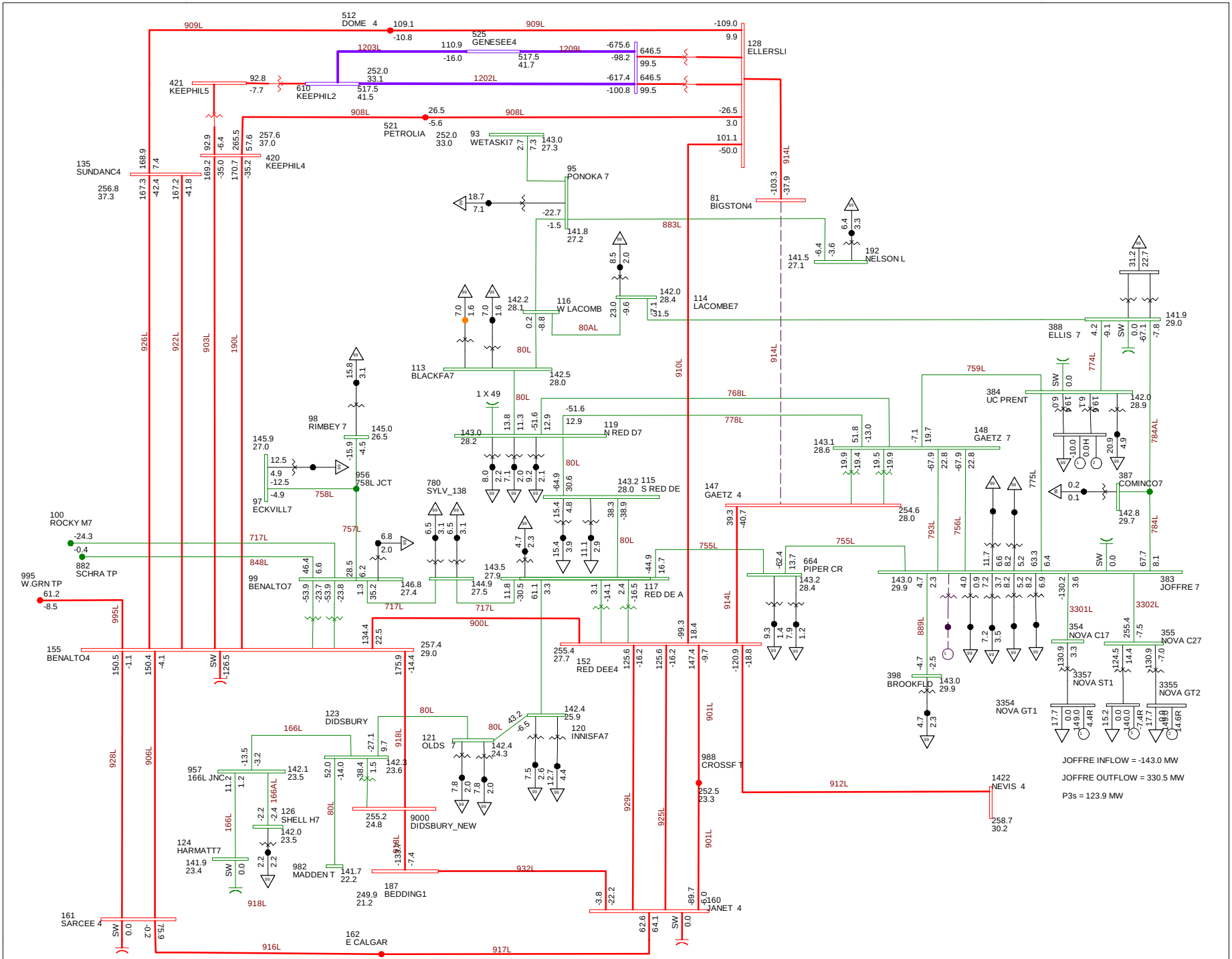
RED DEER REGION STUDY

2012 SUMMER LIGHT BASE CASE REVISION 6.5

FIG 2012-ALT1-LOAD-SL-6
240KV 914L (ELLERSLIE 89S TO BIGSTONE 86S) OUTAGE
TUE, MAR 01 2011 14:35

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR

D-2012-88



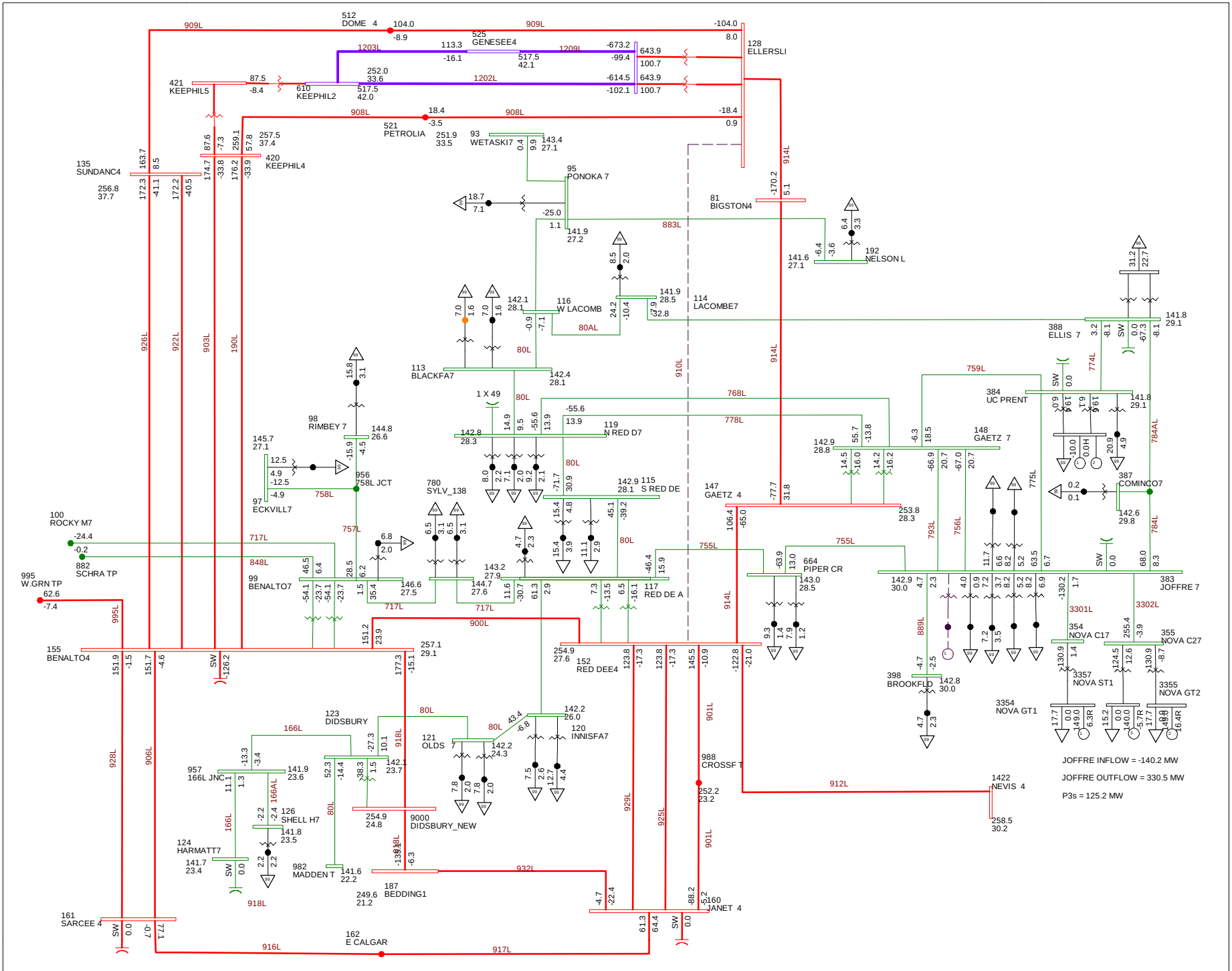
RED DEER REGION STUDY

2012 SUMMER LIGHT BASE CASE REVISION 6.5

FIG 2012-ALT1-LOAD-SL-7
240KV 914L (BIGSTONE 86S TO GAETZ 87S) OUTAGE
TUE, MAR 01 2011 14:35

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR

D-2012-89



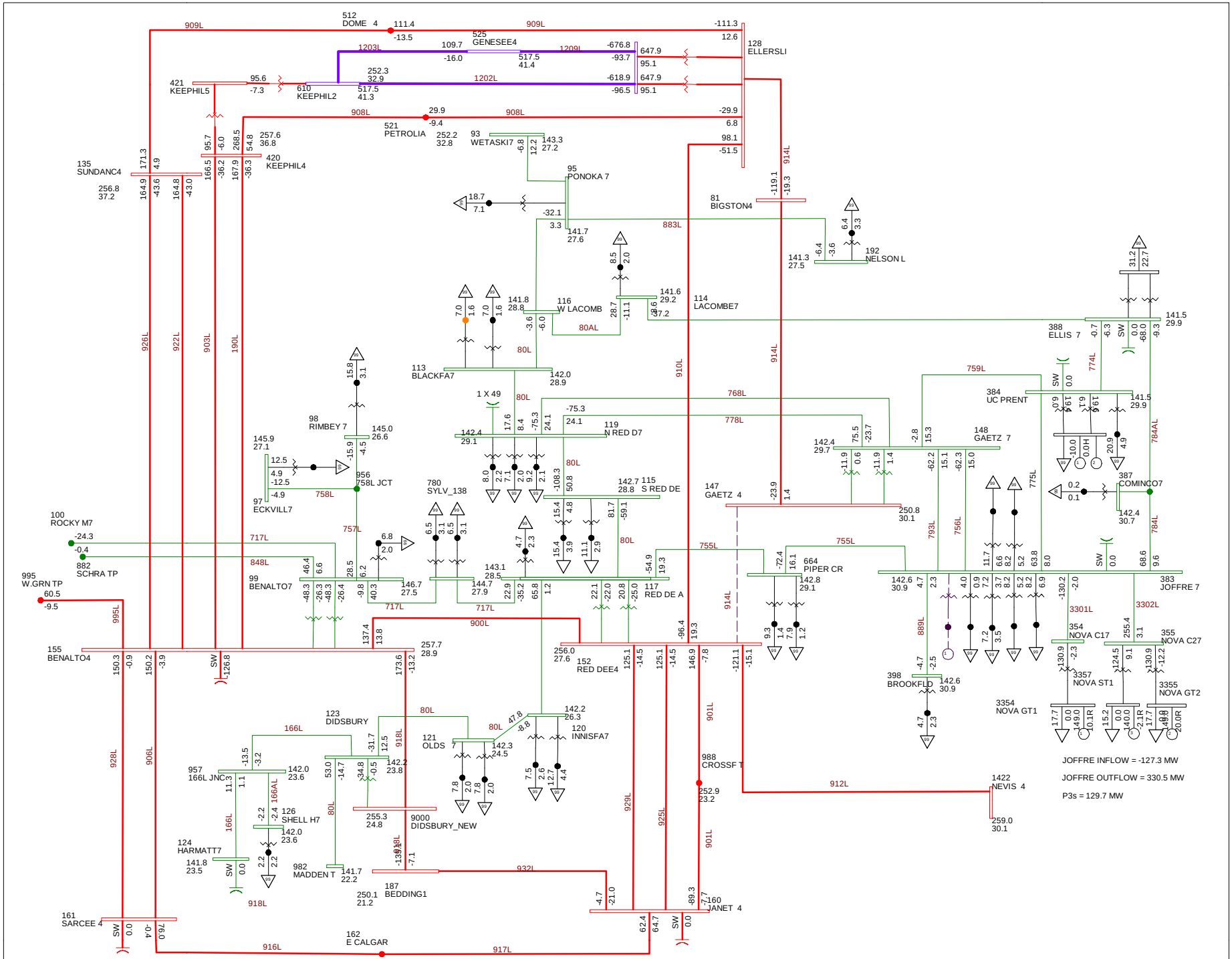
RED DEER REGION STUDY

2012 SUMMER LIGHT BASE CASE REVISION 6.5

FIG 2012-ALT1-LOAD-SL-8
240KV 910L (ELLERSLIE 89S TO RED DEER 63S) OUTAGE
TUE, MAR 01 2011 14:35

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR

D-2012-90



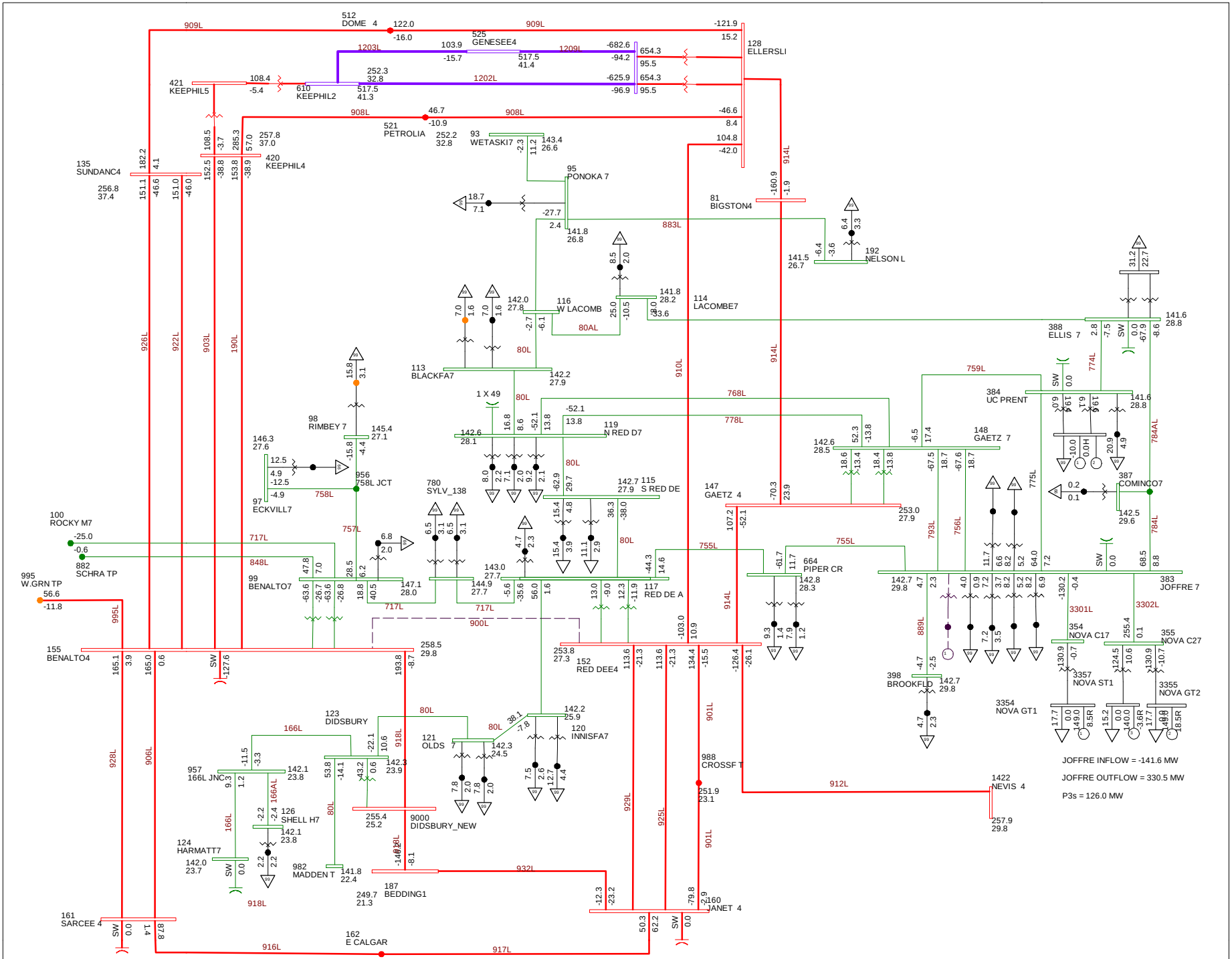
RED DEER REGION STUDY

2012 SUMMER LIGHT BASE CASE REVISION 6.5

FIG 2012-ALT1-LOAD-SL-9
240KV 914L (GAETZ 87S TO RED DEER 63S) OUTAGE
TUE, MAR 01 2011 14:35

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR

D-2012-91



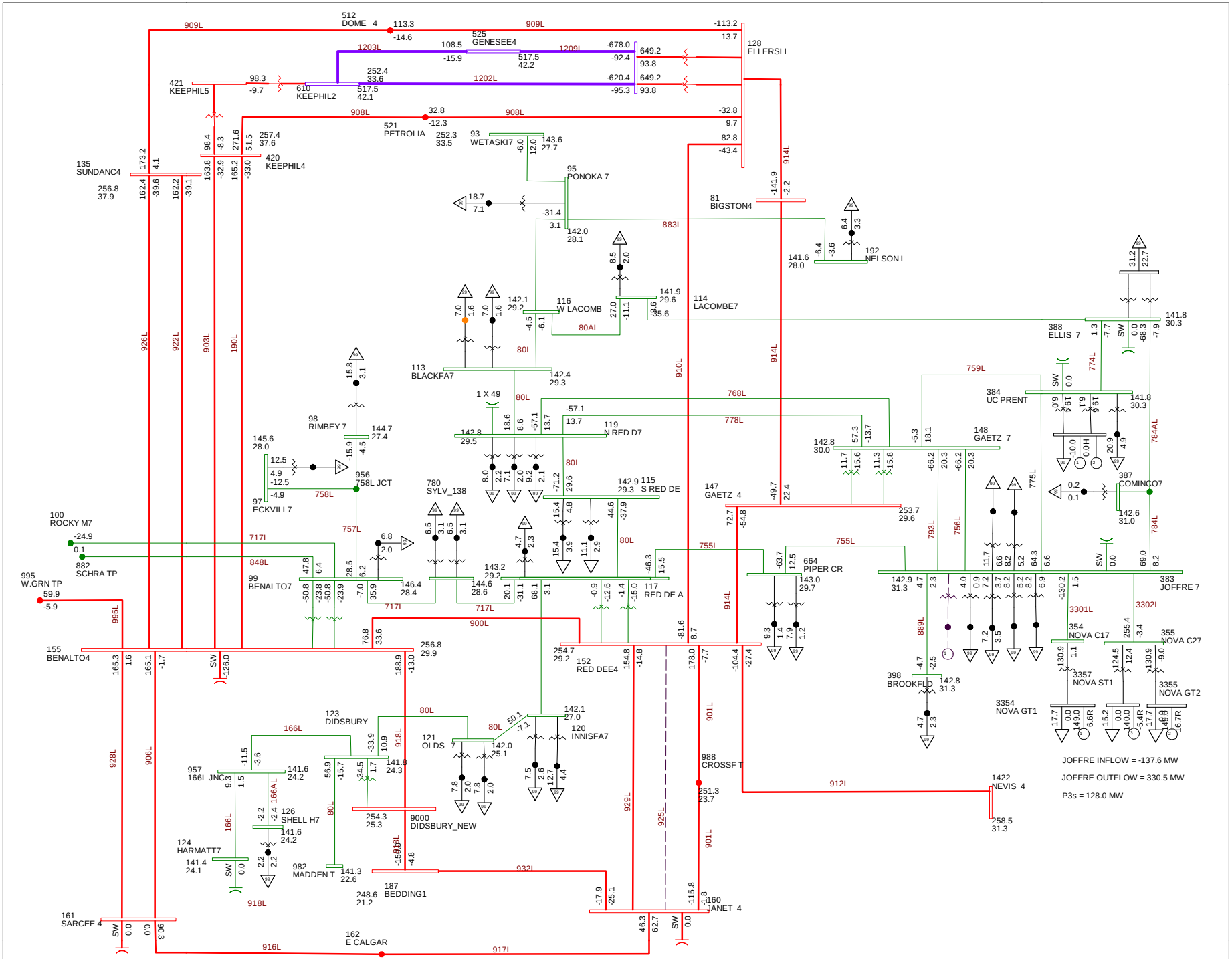
RED DEER REGION STUDY

2012 SUMMER LIGHT BASE CASE REVISION 6.5

FIG 2012-ALT1-LOAD-SL-10
240KV 900L (RED DEER 63S TO BENALTO 17S) OUTAGE
TUE, MAR 01 2011 14:35

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR

D-2012-92



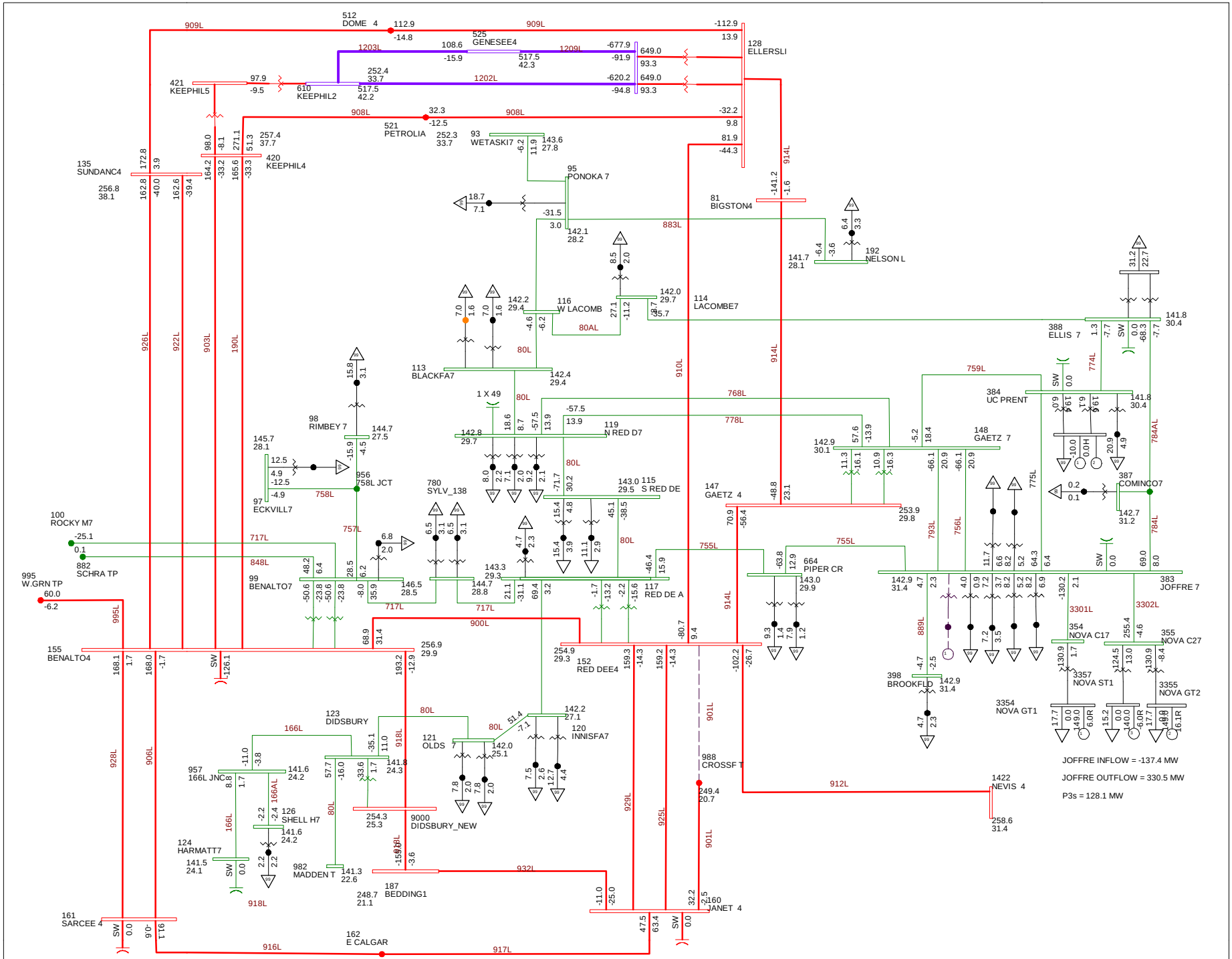
RED DEER REGION STUDY

2012 SUMMER LIGHT BASE CASE REVISION 6.5

FIG 2012-ALT1-LOAD-SL-11
240KV 929/925L (RED DEER 63S TO JANET 74S) OUTAGE
TUE, MAR 01 2011 14:35

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR

D-2012-93



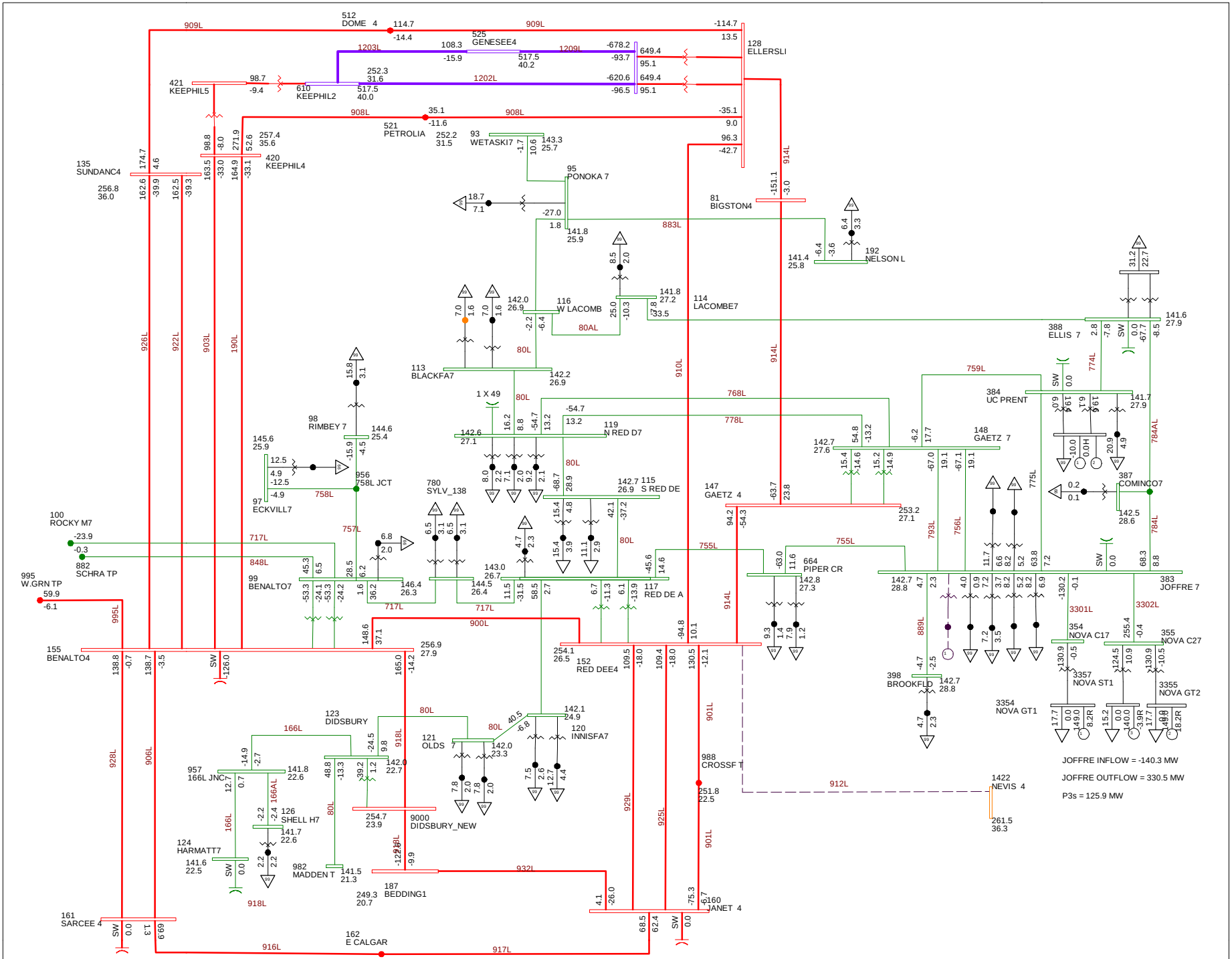
RED DEER REGION STUDY

2012 SUMMER LIGHT BASE CASE REVISION 6.5

FIG 2012-ALT1-LOAD-SL-12
240KV 901L (RED DEER 63S TO CROSSFIELD 64S) OUTAGE
TUE, MAR 01 2011 14:35

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR

D-2012-94



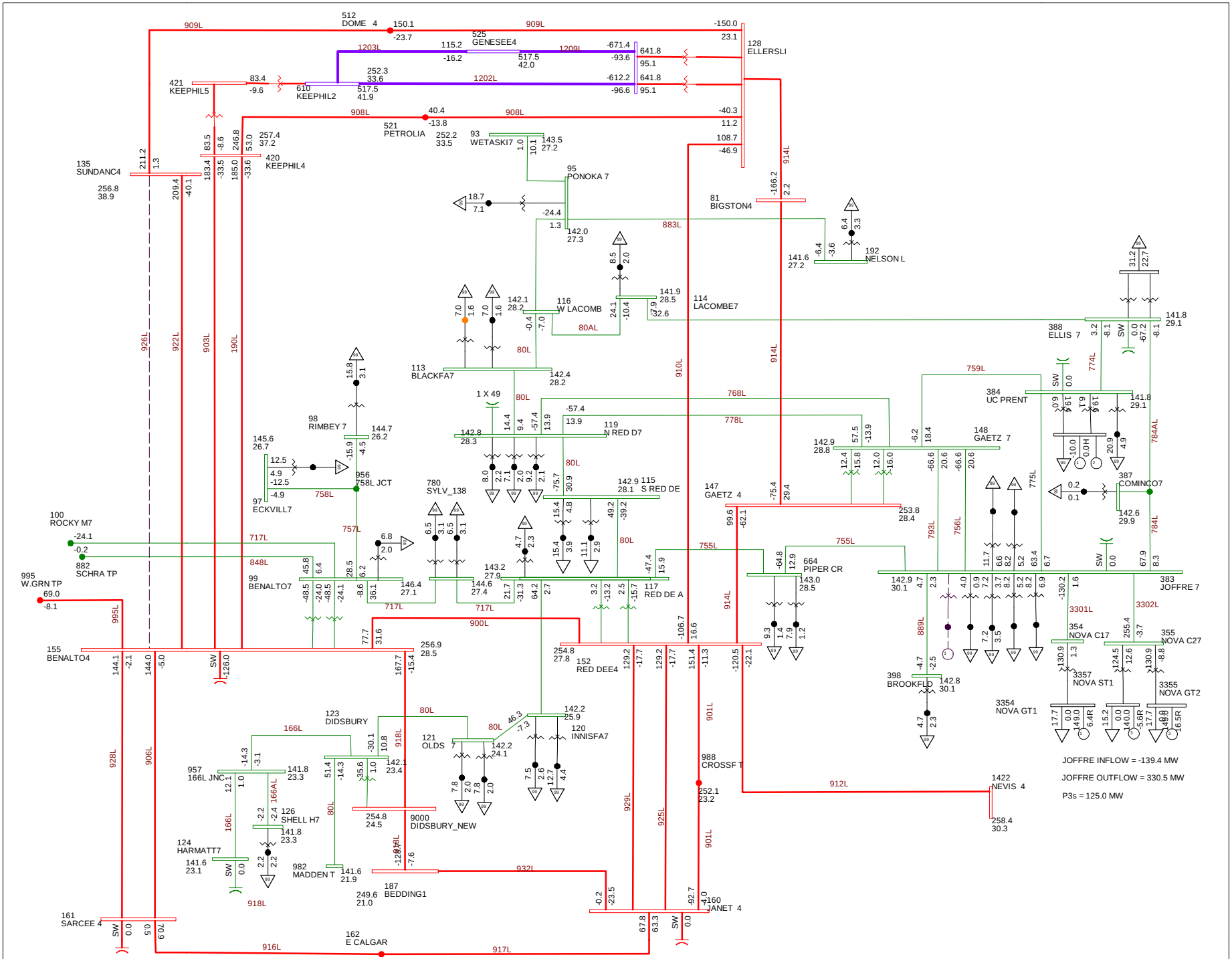
RED DEER REGION STUDY

2012 SUMMER LIGHT BASE CASE REVISION 6.5

FIG 2012-ALT1-LOAD-SL-13
240KV 912L (RED DEER 63S TO NEVIS 766S) OUTAGE
TUE, MAR 01 2011 14:35

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR

D-2012-95



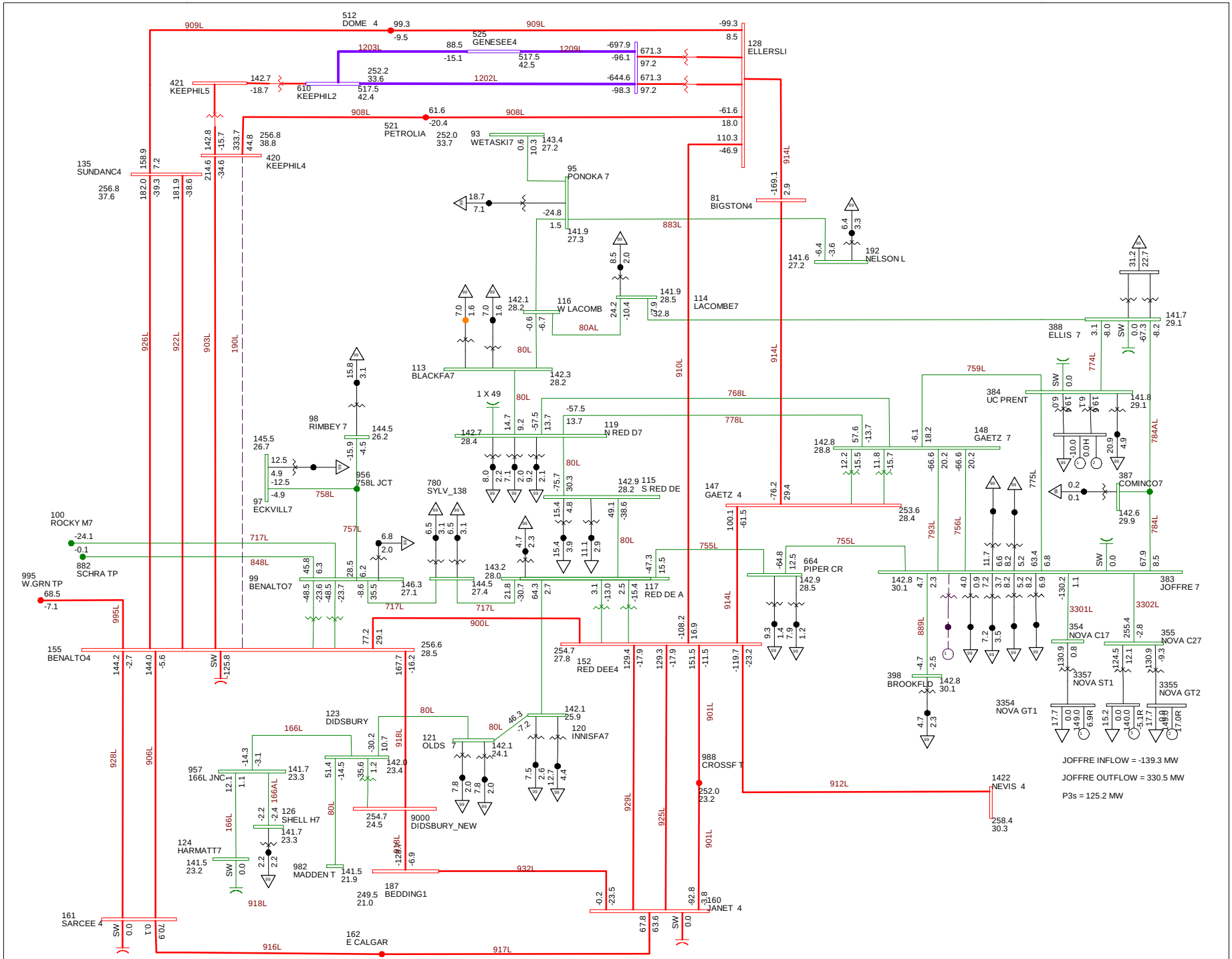
RED DEER REGION STUDY

2012 SUMMER LIGHT BASE CASE REVISION 6.5

FIG 2012-ALT1-LOAD-SL-14
240 KV 926/922L (SUNDANCE 310P TO BENALTO 17S) OUTAGE
TUE, MAR 01 2011 14:35

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR

D-2012-96



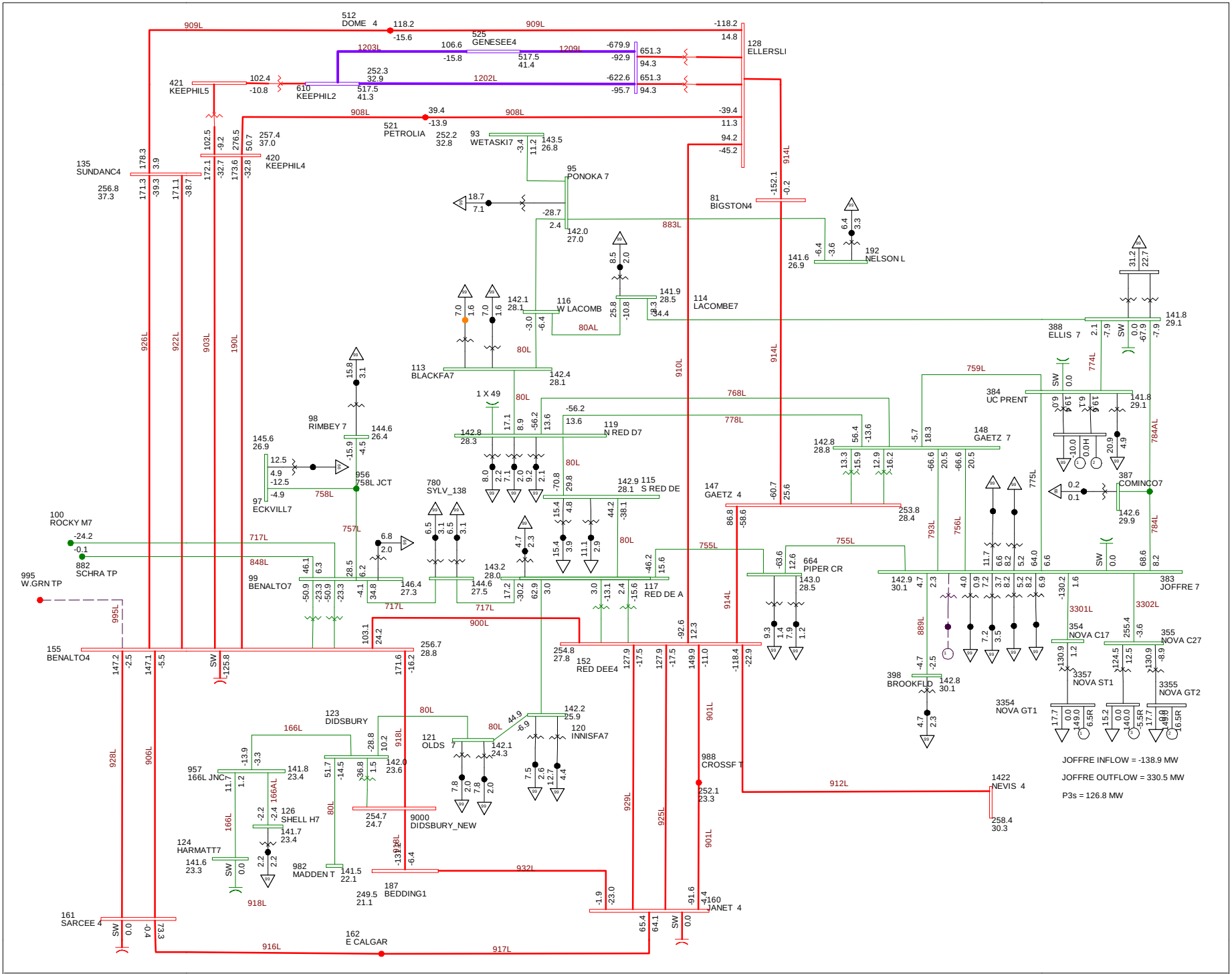
RED DEER REGION STUDY

2012 SUMMER LIGHT BASE CASE REVISION 6.5

FIG 2012-ALT1-LOAD-SL-15
240KV 190/903L (KEEPHILLS 320P TO BENALTO 17S) OUTAGE
TUE, MAR 01 2011 14:35

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR

D-2012-97



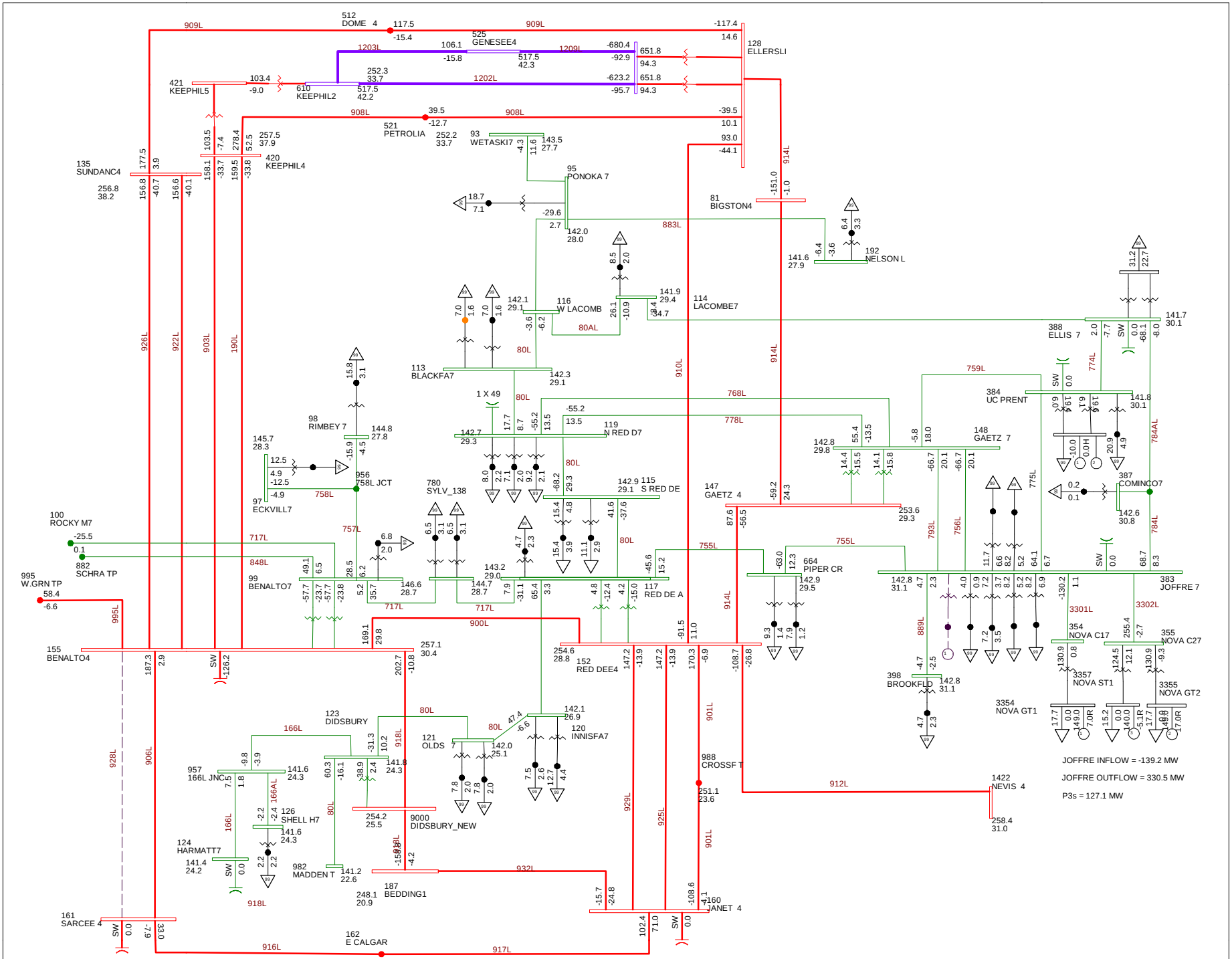
RED DEER REGION STUDY

2012 SUMMER LIGHT BASE CASE REVISION 6.5

FIG 2012-ALT1-LOAD-SL-16
240 KV 995L (AMOCO WILLESDEN GREEN 68S TO BENALTO 17S) OUTAG
TUE, MAR 01 2011 14:35

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR

D-2012-98



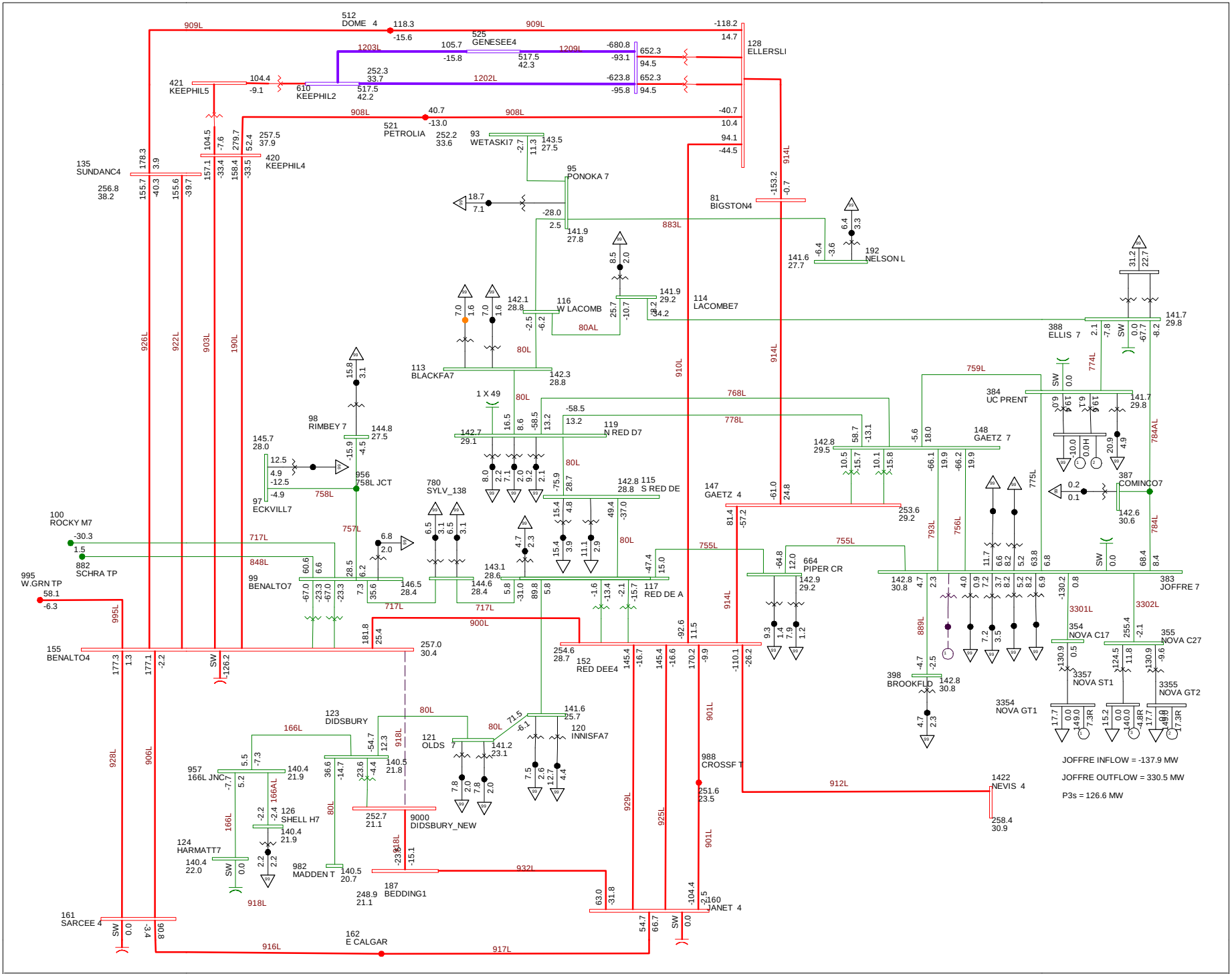
RED DEER REGION STUDY

2012 SUMMER LIGHT BASE CASE REVISION 6.5

FIG 2012-ALT1-LOAD-SL-17
240 KV 906/928L (BENALTO 17S TO SARCEE 42S) OUTAGE
TUE, MAR 01 2011 14:35

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR

D-2012-99



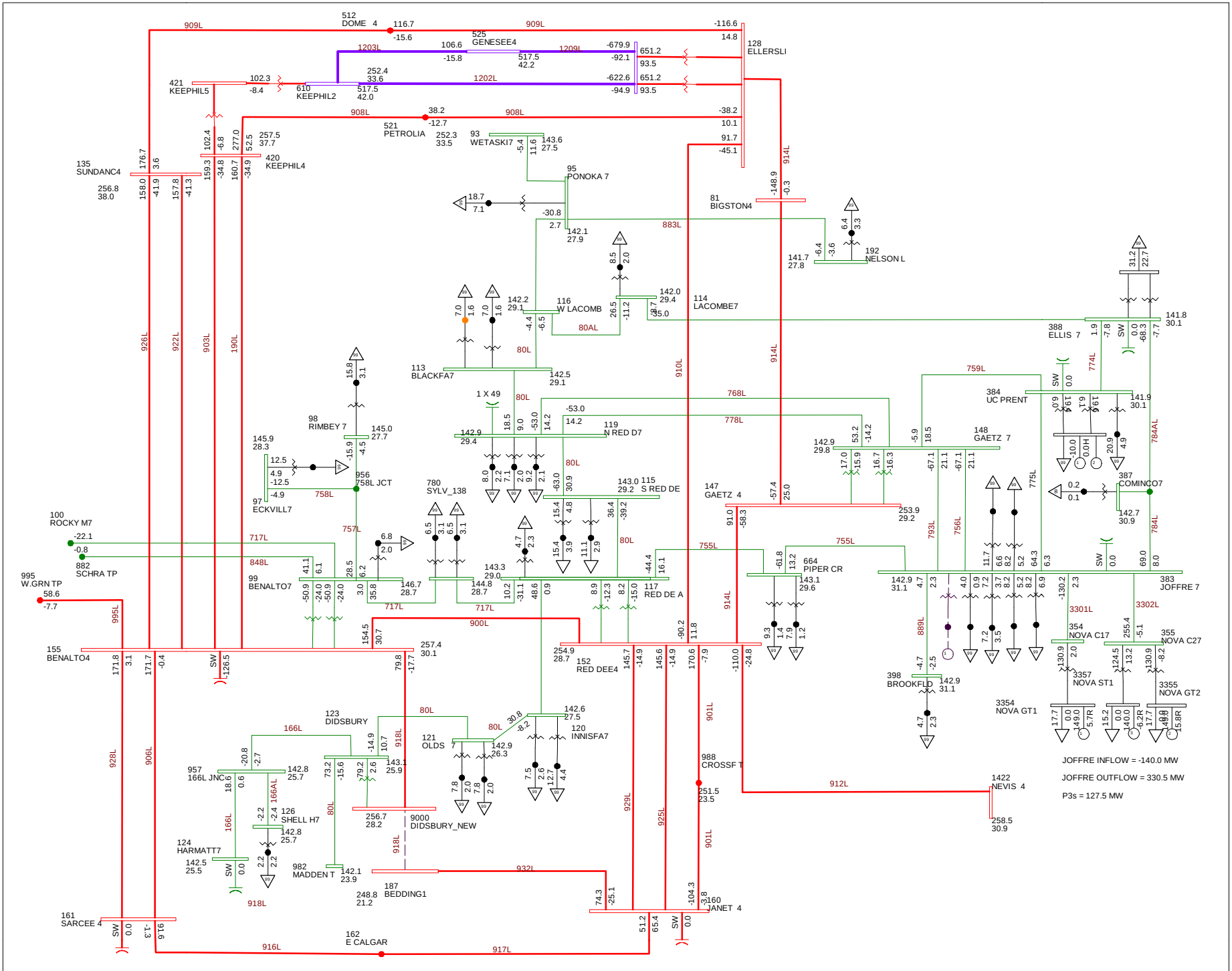
RED DEER REGION STUDY

2012 SUMMER LIGHT BASE CASE REVISION 6.5

FIG 2012-ALT1-LOAD-SL-18
240 KV 918L (BENALTO 17S TO DIDSBURY SUB. (152S)) OUTAGE
TUE, MAR 01 2011 14:35

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR

D-2012-100



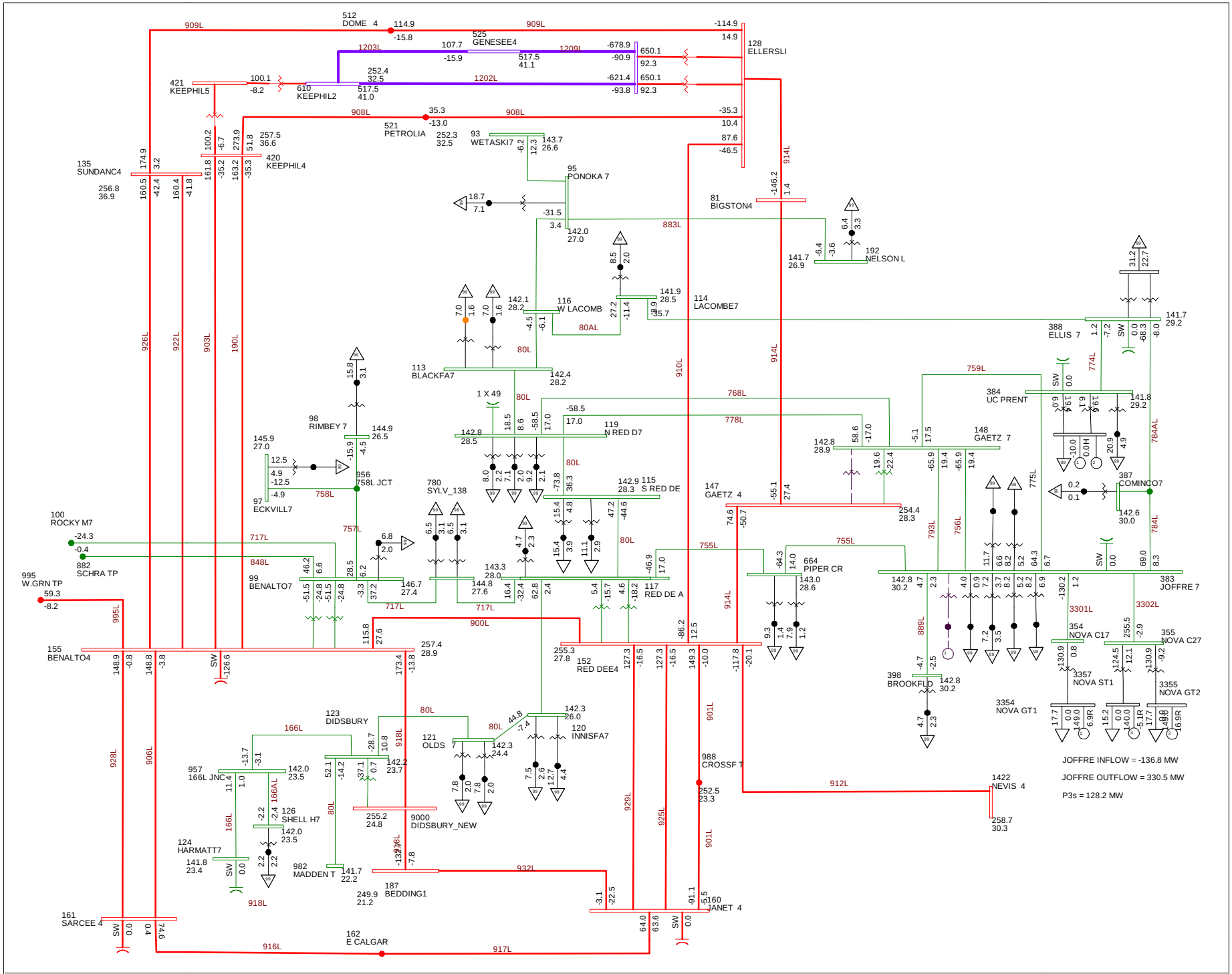
RED DEER REGION STUDY

2012 SUMMER LIGHT BASE CASE REVISION 6.5

FIG 2012-ALT1-LOAD-SL-19
240 KV 918L (DIDSBURY SUB. (152S) TO BEDDINGTON 162S) OUTAGE
TUE, MAR 01 2011 14:36

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
100.0%INTEA

D-2012-101



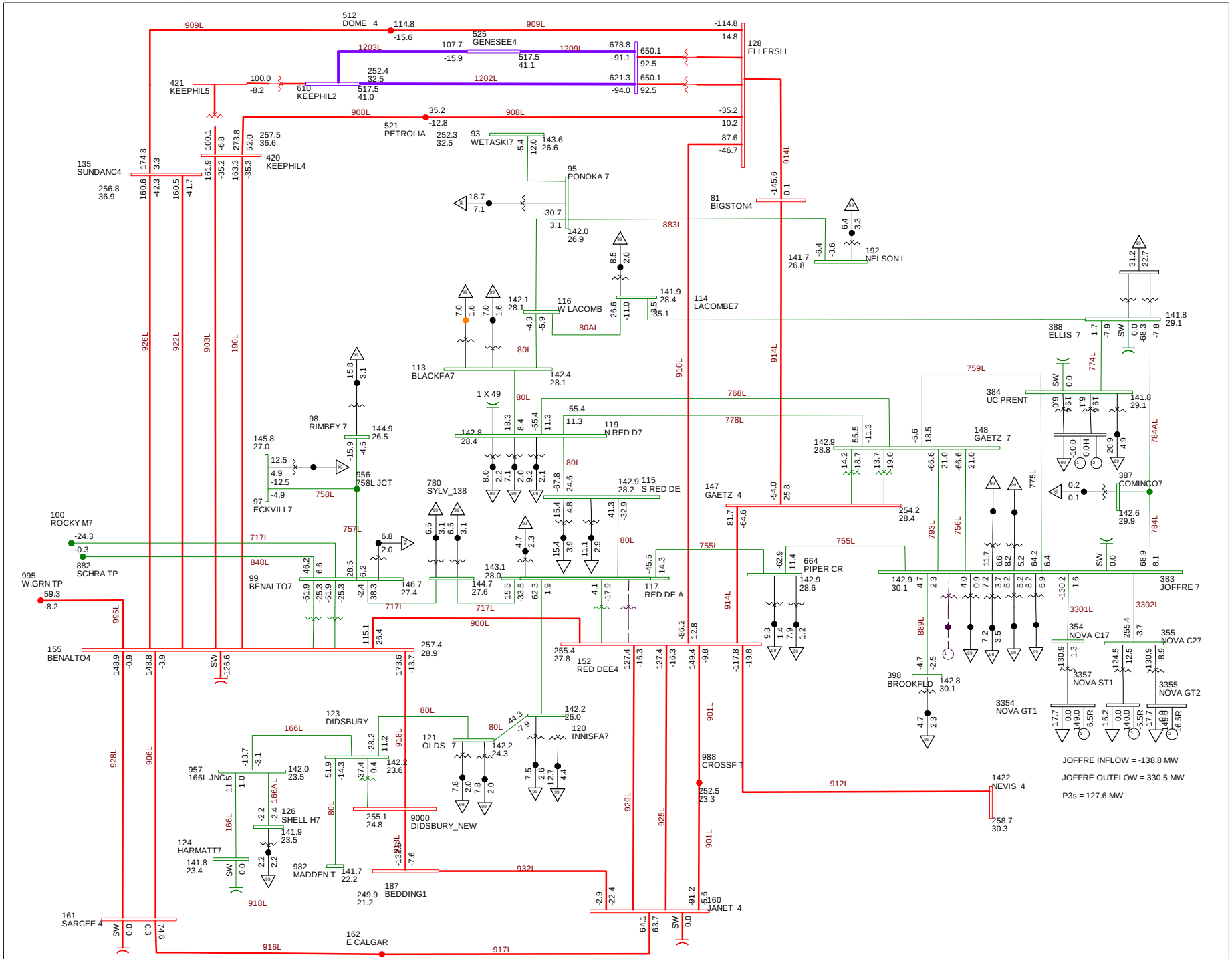
RED DEER REGION STUDY

2012 SUMMER LIGHT BASE CASE REVISION 6.5

FIG 2012-ALT1-LOAD-SL-20
240/138KV TRANSFORMER AT GAETZ 87S OUTAGE
TUE, MAR 01 2011 14:36

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR

D-2012-102



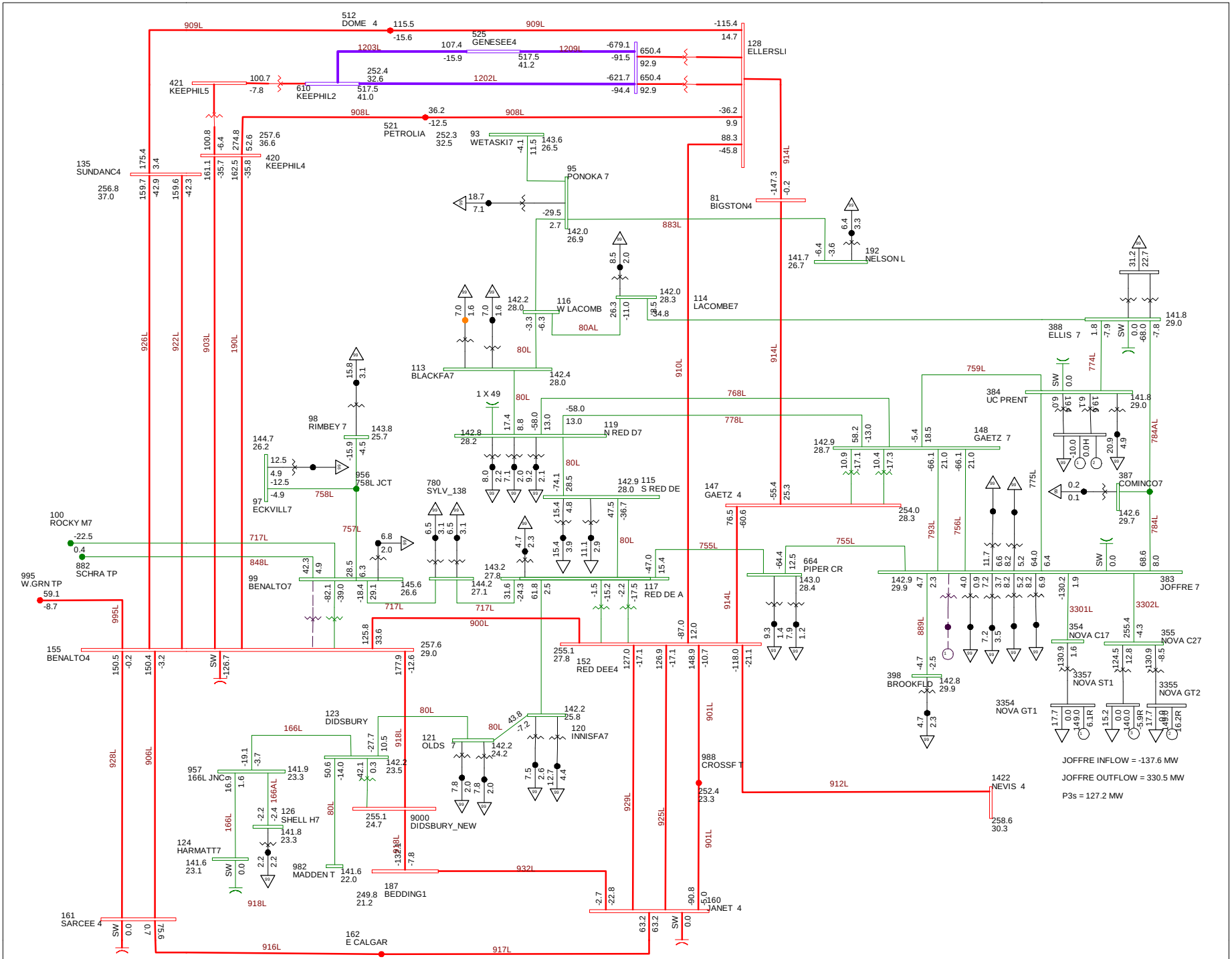
RED DEER REGION STUDY

2012 SUMMER LIGHT BASE CASE REVISION 6.5

FIG 2012-ALT1-LOAD-SL-21
240/138KV TRANSFORMER AT RED DEER 63S OUTAGE
TUE, MAR 01 2011 14:36

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR

D-2012-103



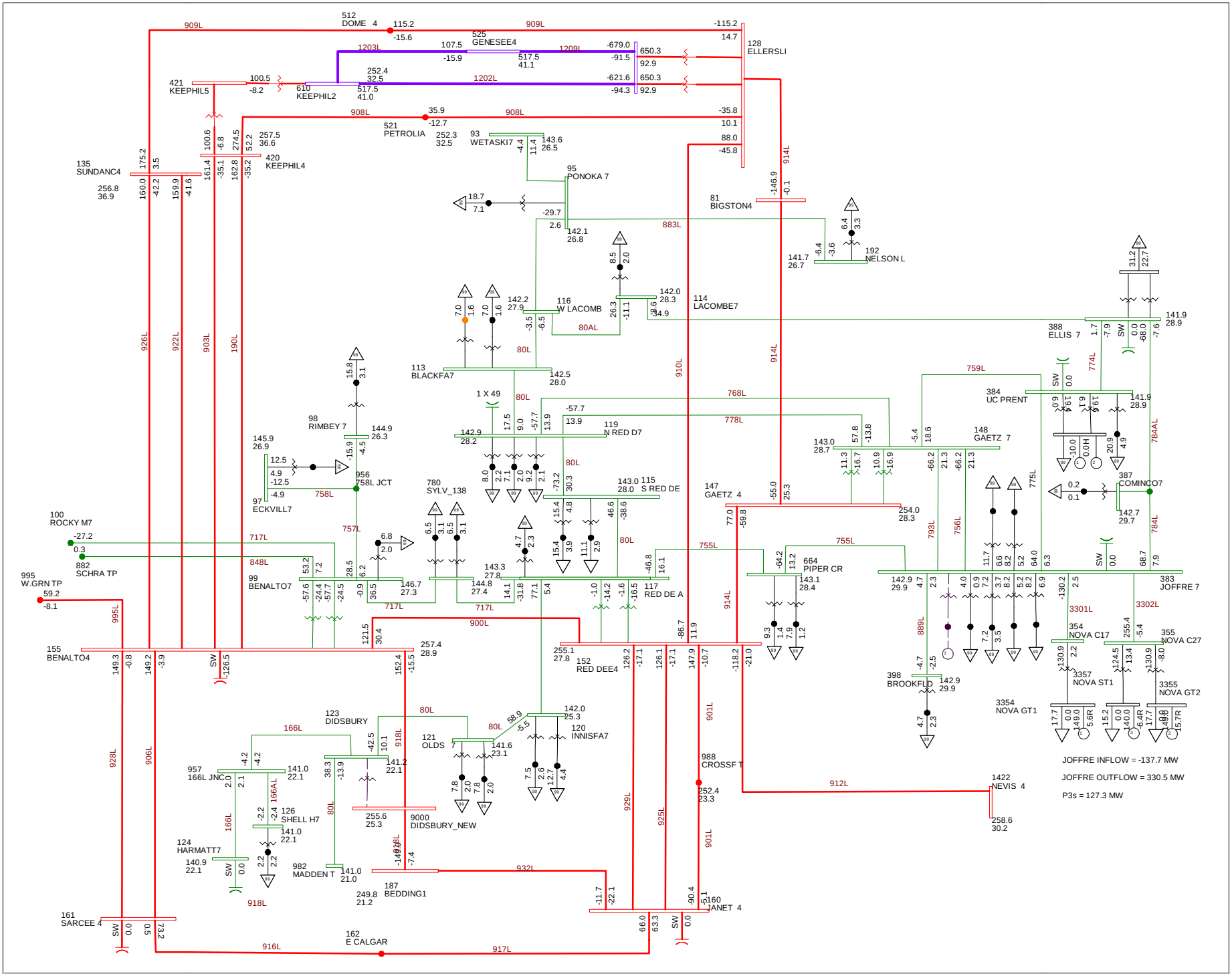
RED DEER REGION STUDY

2012 SUMMER LIGHT BASE CASE REVISION 6.5

FIG 2012-ALT1-LOAD-SL-22
240/138KV TRANSFORMER AT BENALTO 17S OUTAGE
TUE, MAR 01 2011 14:36

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
100.0%ATEA
KV: <=1.000 <=34.500 <=240.000
1.080OV 0.900UV <=72.000 <=138.000 <=500.000 >500.000

D-2012-104



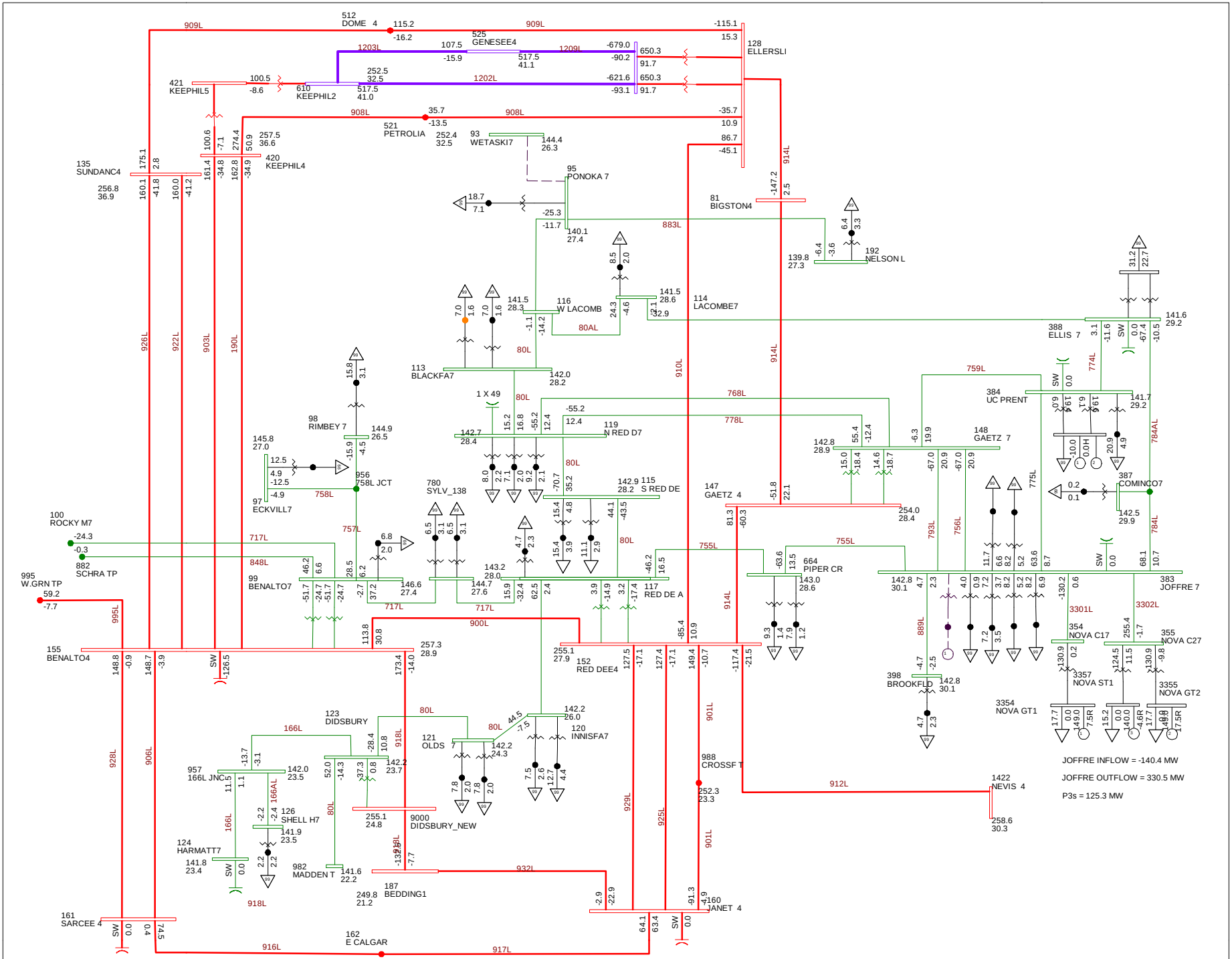
RED DEER REGION STUDY

2012 SUMMER LIGHT BASE CASE REVISION 6.5

FIG 2012-ALT1-LOAD-SL-23
240/138KV TRANSFORMER AT DIDSBURY SUB. (152S) OUTAGE
TUE, MAR 01 2011 14:36

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR

D-2012-105



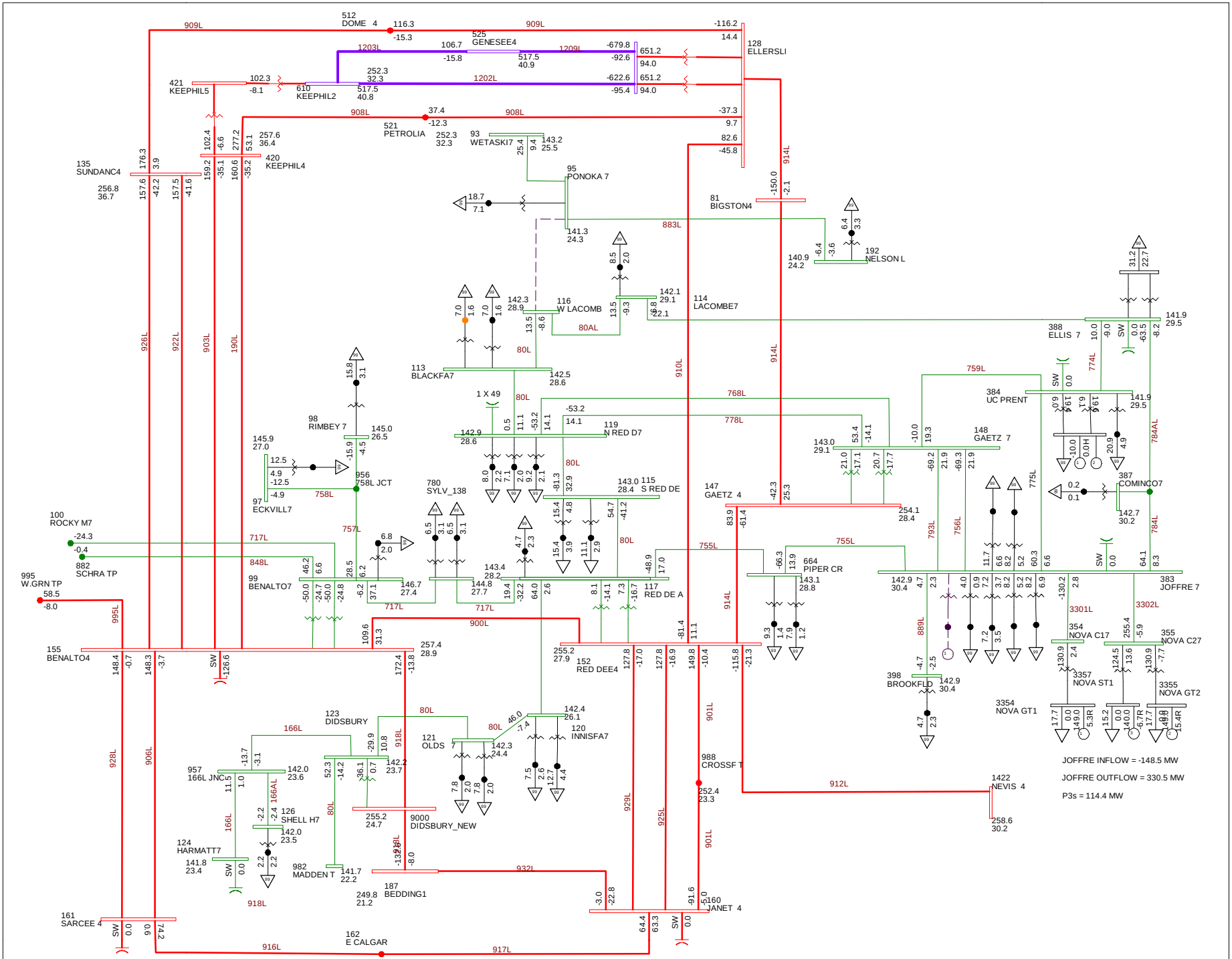
RED DEER REGION STUDY

2012 SUMMER LIGHT BASE CASE REVISION 6.5

FIG 2012-ALT1-LOAD-SL-24
138 KV 716L (PONOKA 331S TO WETASKIWIN 40S) OUTAGE
TUE, MAR 01 2011 14:36

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR

D-2012-106



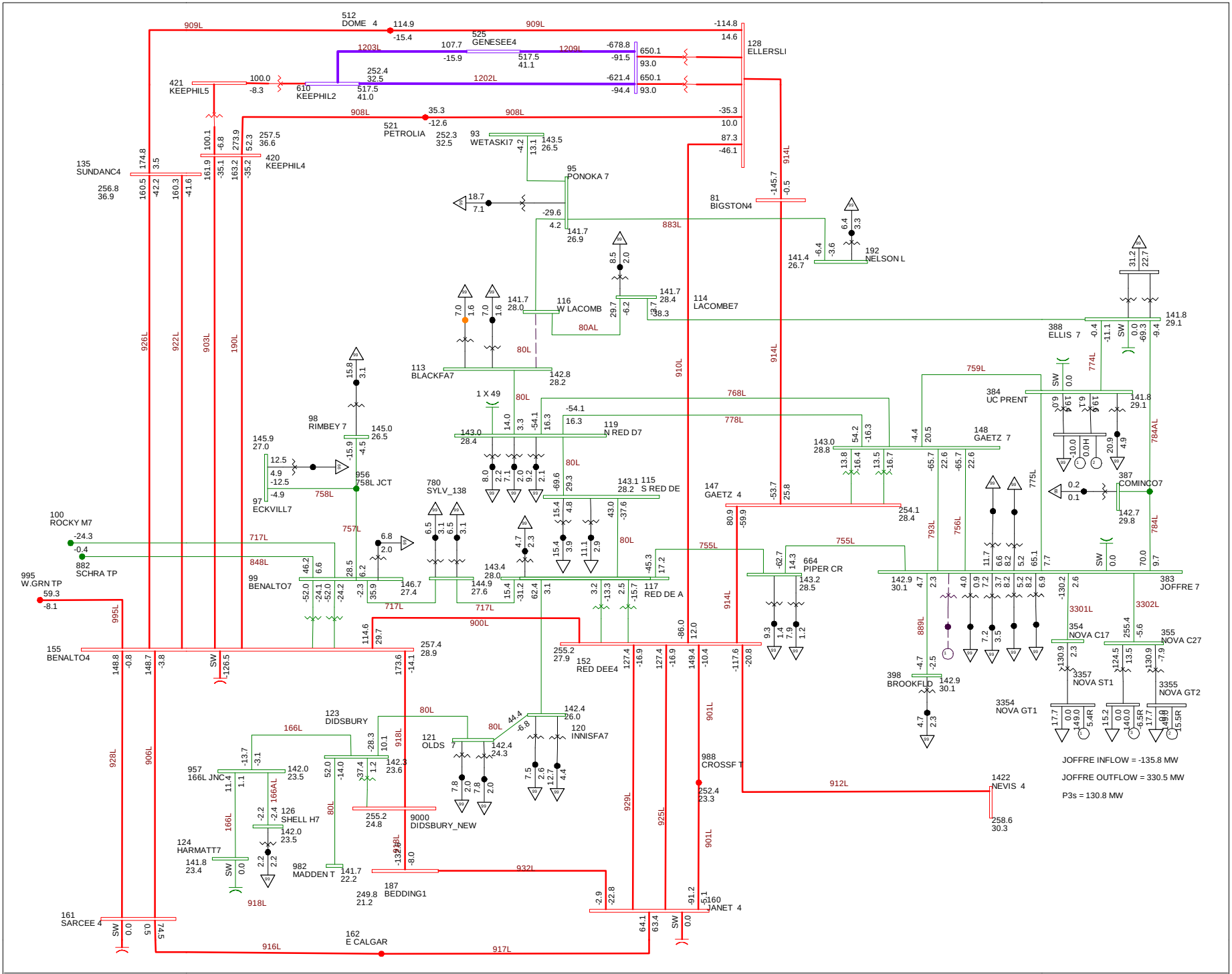
RED DEER REGION STUDY

2012 SUMMER LIGHT BASE CASE REVISION 6.5

FIG 2012-ALT1-LOAD-SL-25
138 KV 80L (PONOKA 331S TO W. LACOMBE 958S) OUTAGE
TUE, MAR 01 2011 14:36

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR

D-2012-107



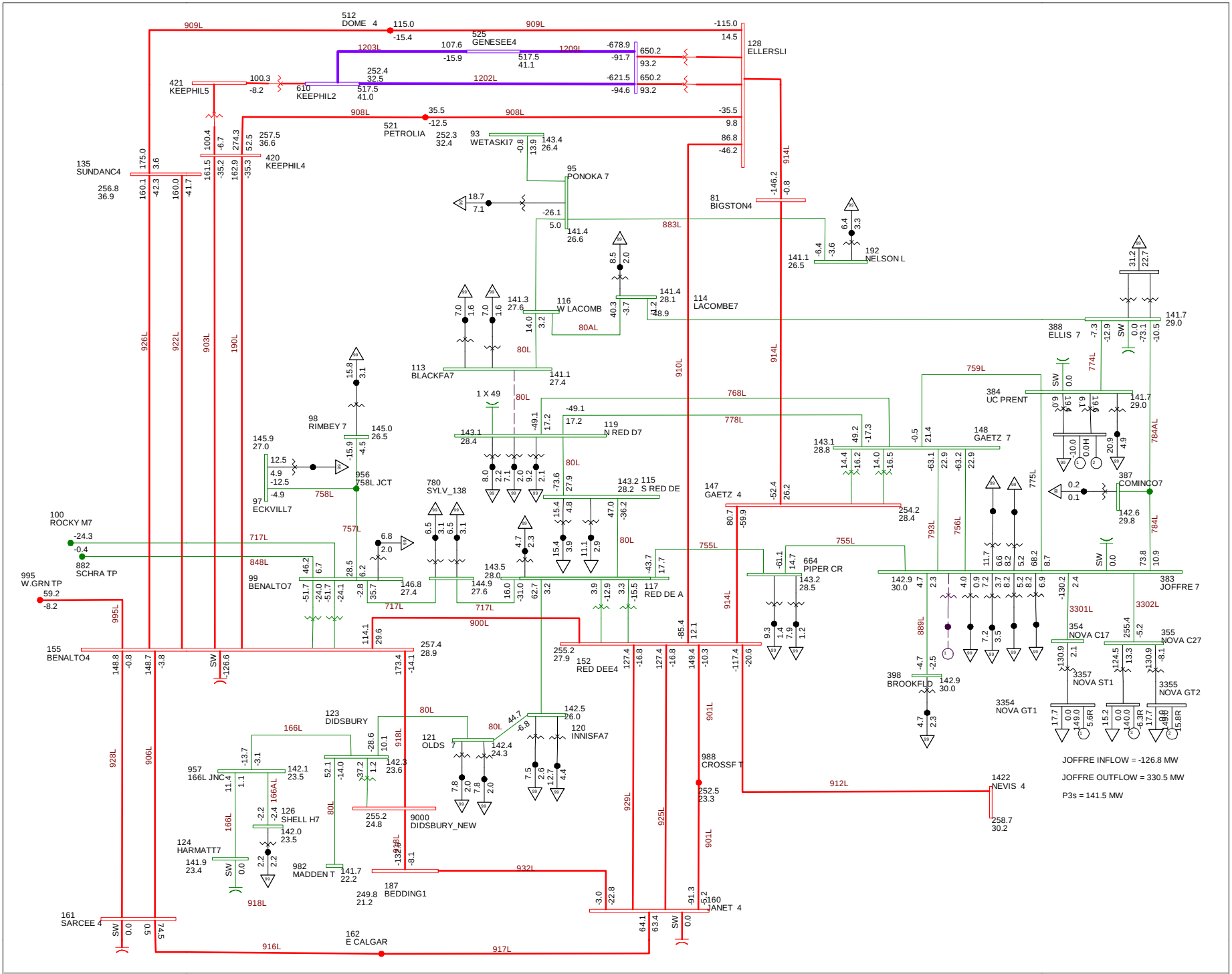
RED DEER REGION STUDY

2012 SUMMER LIGHT BASE CASE REVISION 6.5

FIG 2012-ALT1-LOAD-SL-26
138 KV 80L (W. LACOMBE 958S TO BLACKFALDS 198S) OUTAGE
TUE, MAR 01 2011 14:36

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR

D-2012-108



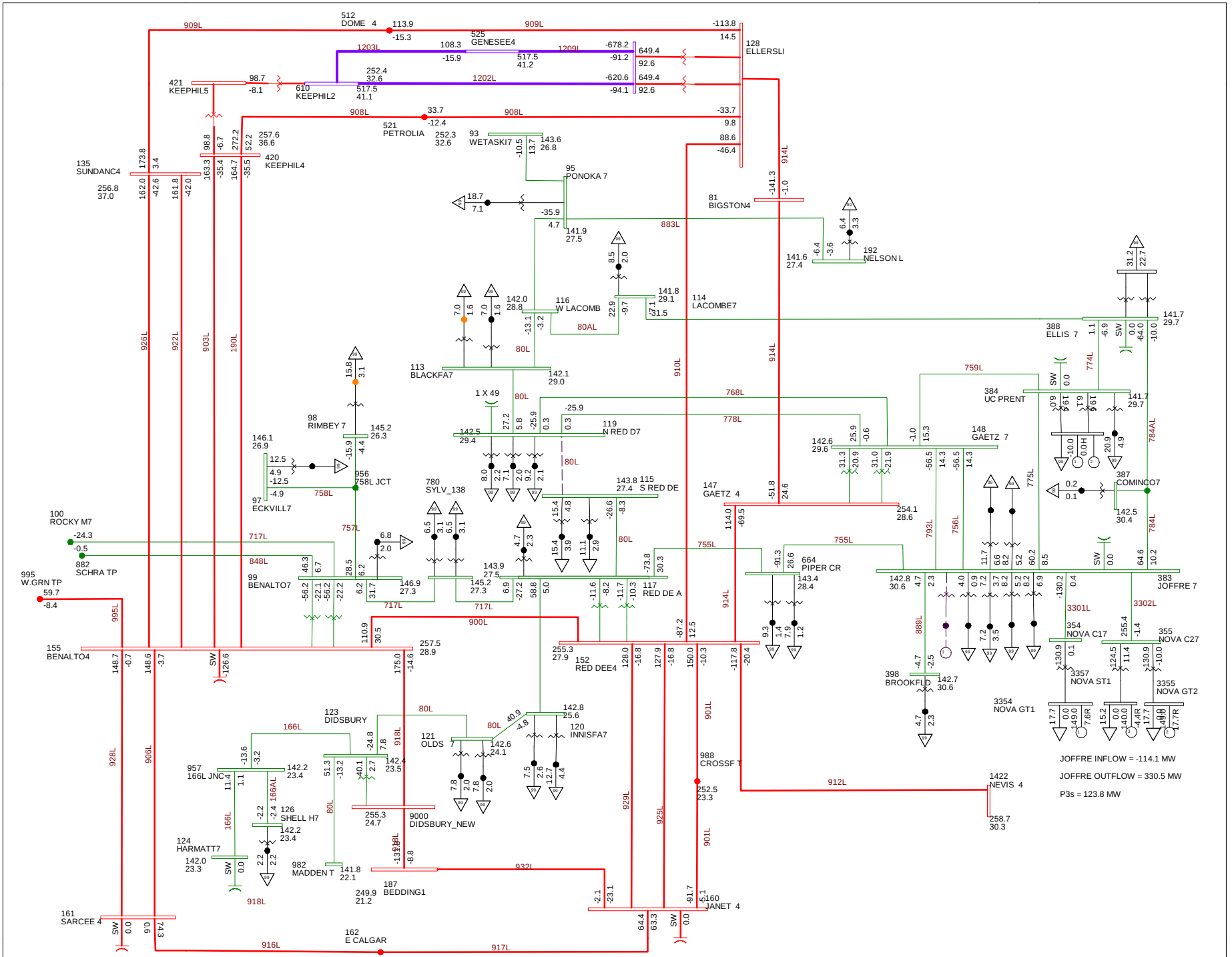
RED DEER REGION STUDY

2012 SUMMER LIGHT BASE CASE REVISION 6.5

FIG 2012-ALT1-LOAD-SL-27
138 KV 80L (BLACKFALDS 198S TO N. RED DEER 217S) OUTAGE
TUE, MAR 01 2011 14:36

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR

D-2012-109



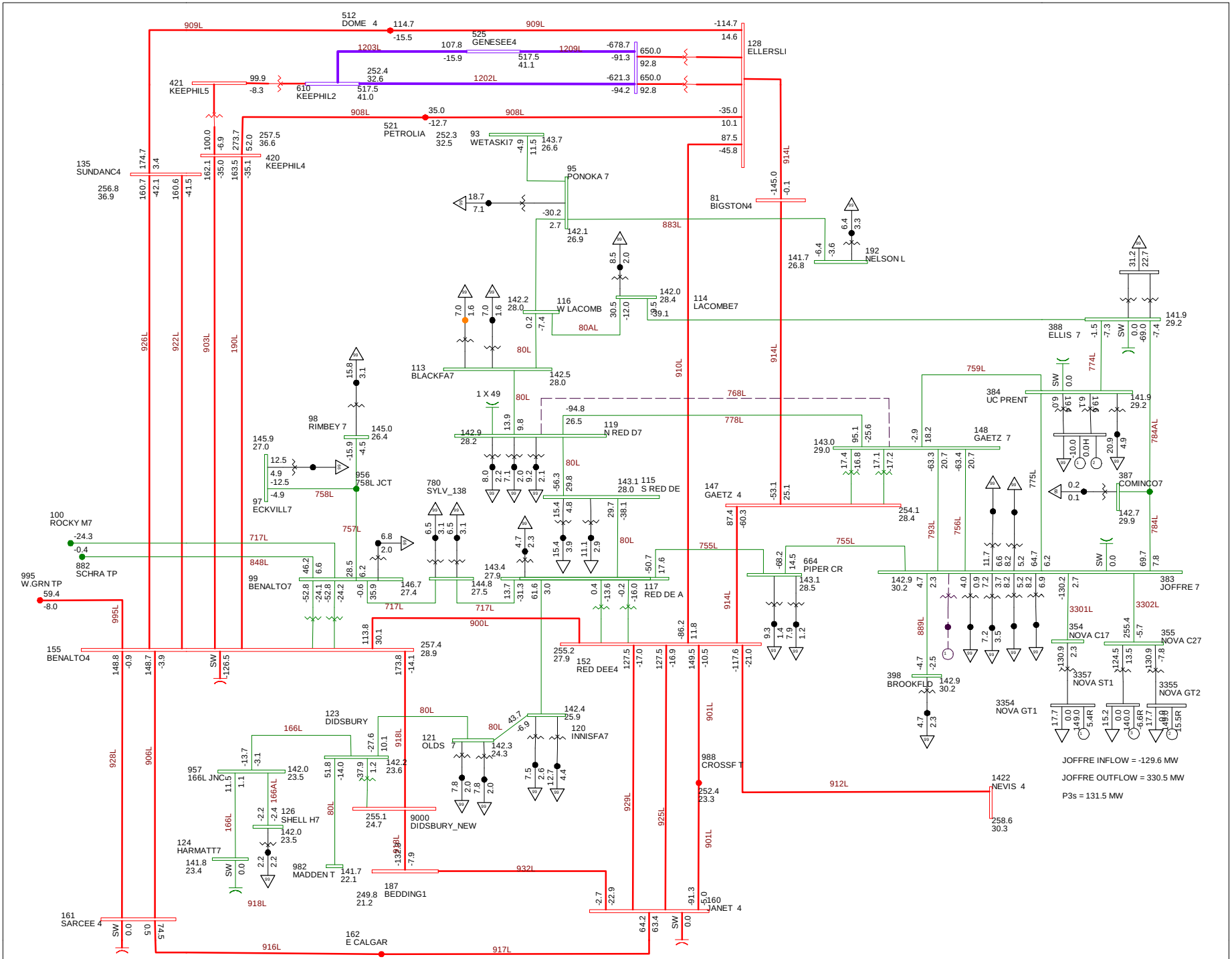
RED DEER REGION STUDY

2012 SUMMER LIGHT BASE CASE REVISION 6.5

FIG 2012-ALT1-LOAD-SL-28
138 KV 80L (N. RED DEER 217S TO S. RED DEER 194S) OUTAGE
TUE, MAR 01 2011 14:36

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR

D-2012-110



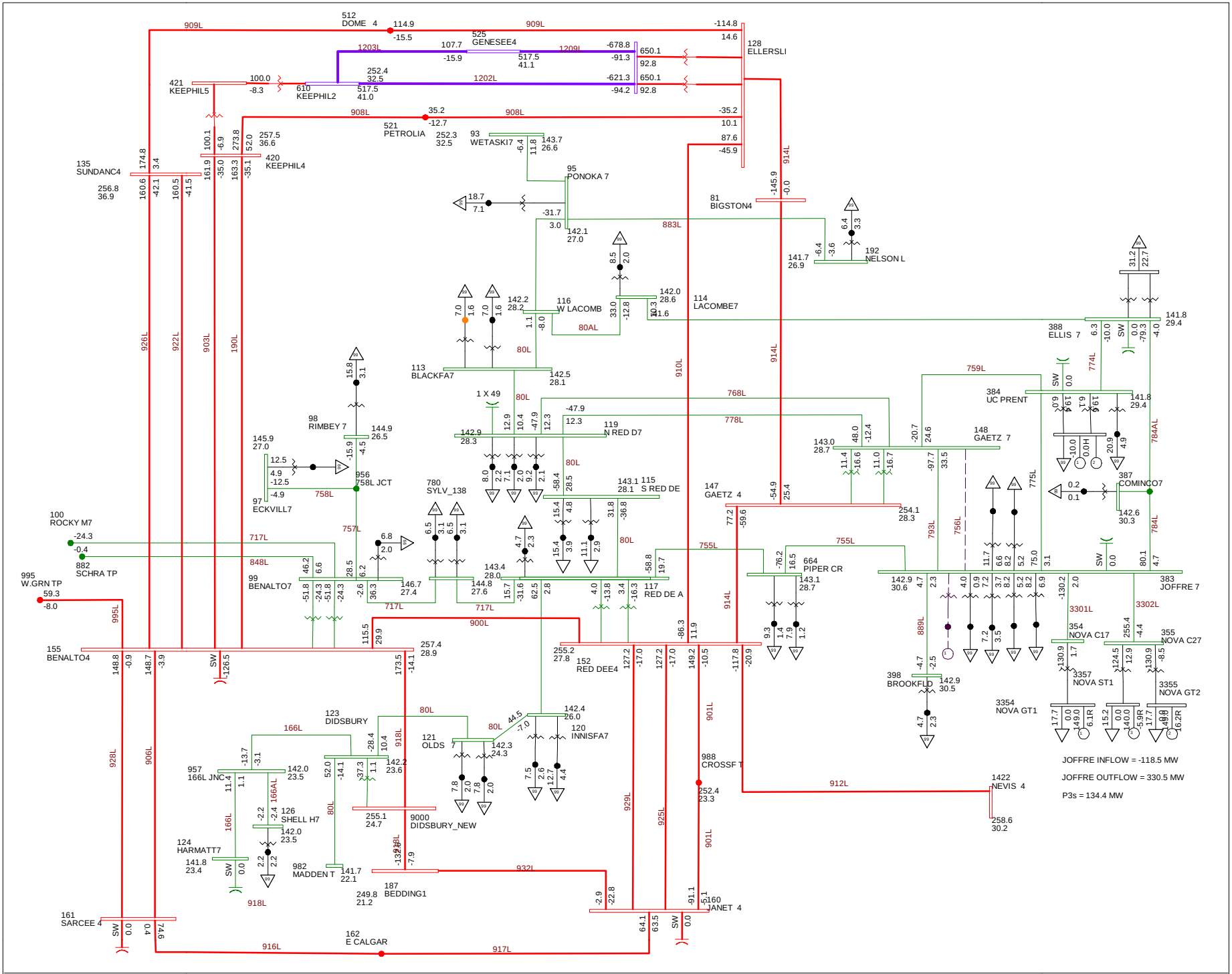
RED DEER REGION STUDY

2012 SUMMER LIGHT BASE CASE REVISION 6.5

FIG 2012-ALT1-LOAD-SL-29
138 KV 768L (N. RED DEER 217S TO GAETZ 87S) OUTAGE
TUE, MAR 01 2011 14:36

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR

D-2012-111



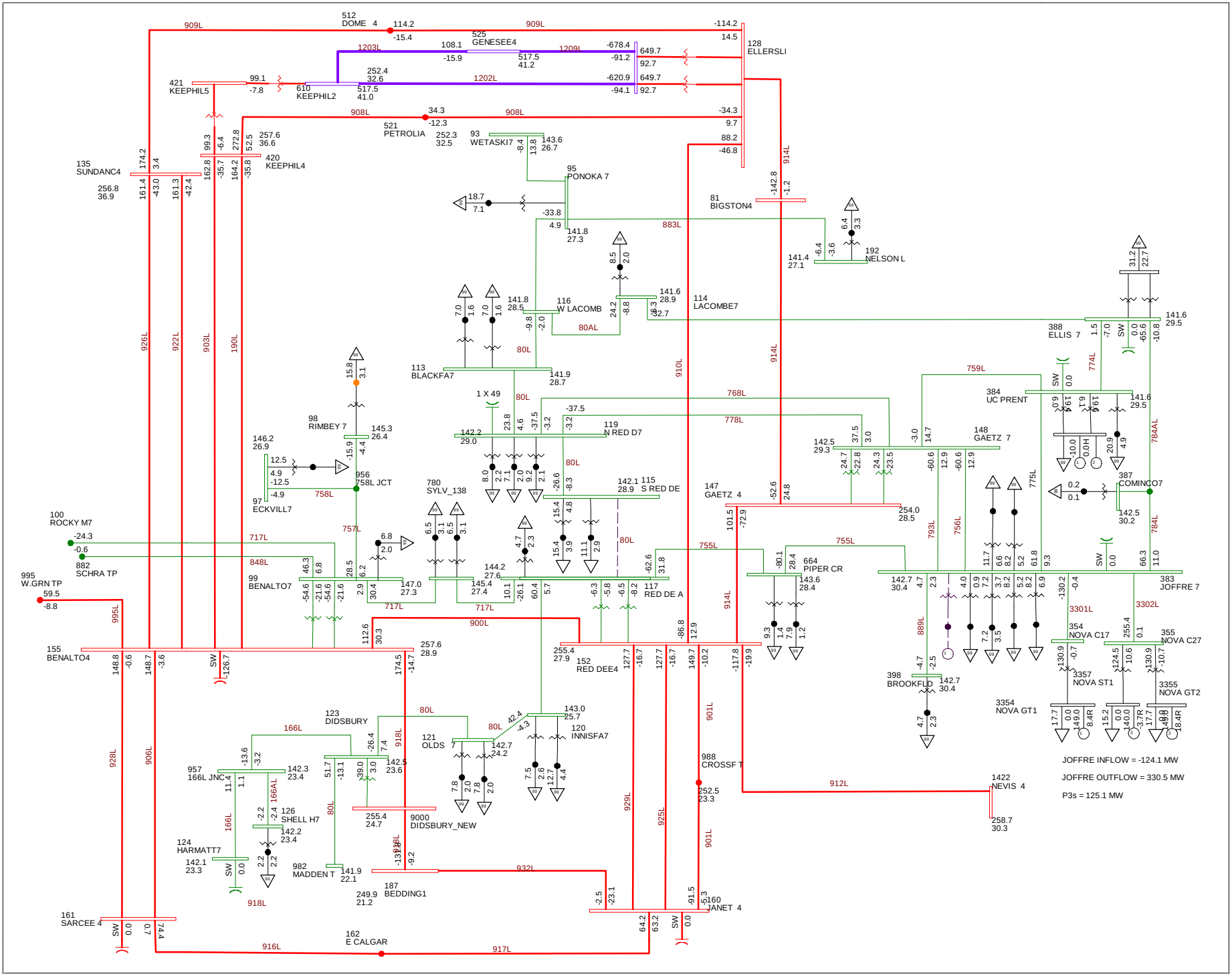
RED DEER REGION STUDY

2012 SUMMER LIGHT BASE CASE REVISION 6.5

FIG 2012-ALT1-LOAD-SL-30
138 KV 793/756L (GAETZ 87S TO JOFFRE 535S) OUTAGE
TUE, MAR 01 2011 14:36

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR

D-2012-112



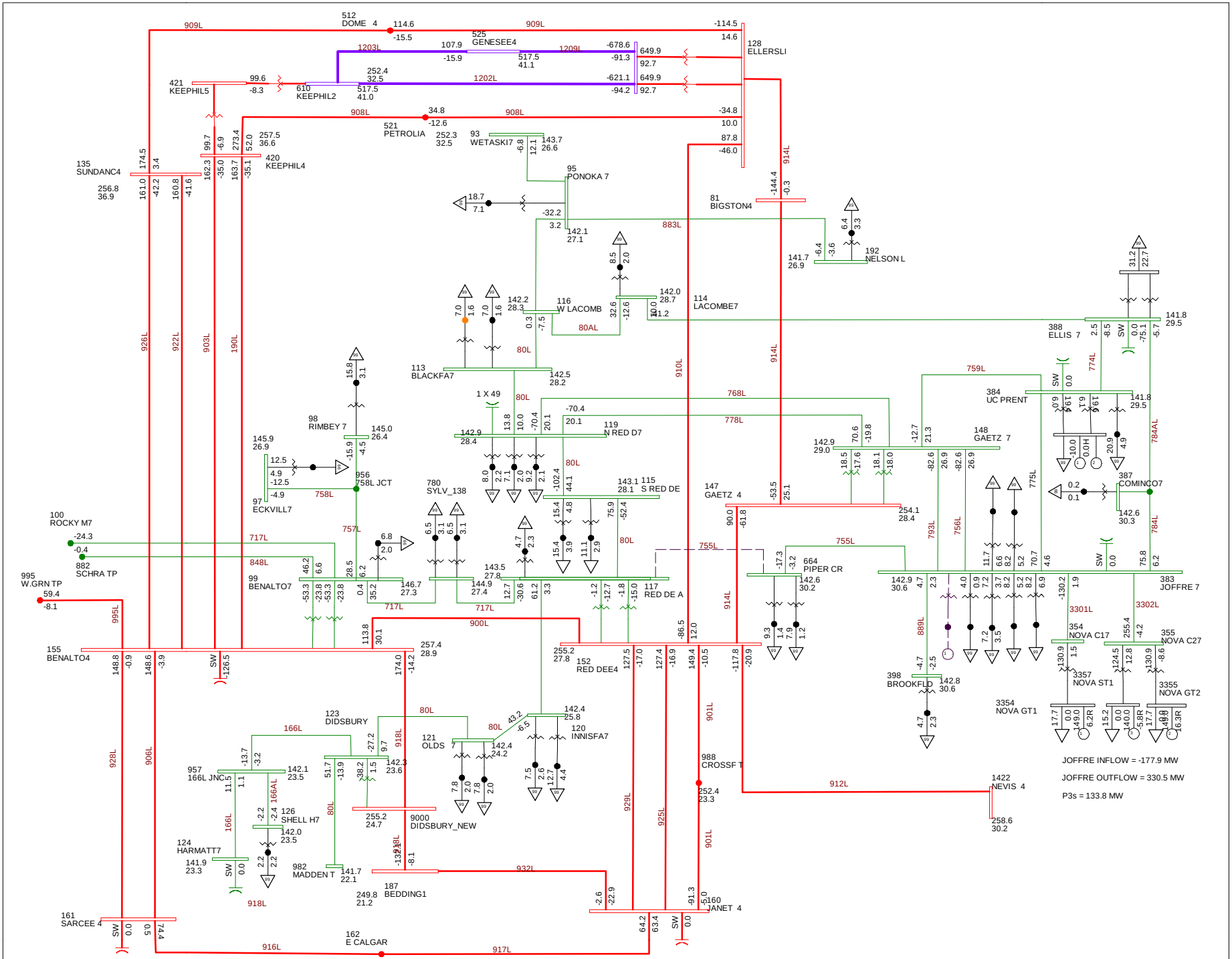
RED DEER REGION STUDY

2012 SUMMER LIGHT BASE CASE REVISION 6.5

FIG 2012-ALT1-LOAD-SL-31
138 KV 80L (S. RED DEER 194S TO RED DEER 63S) OUTAGE
TUE, MAR 01 2011 14:36

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR

D-2012-113



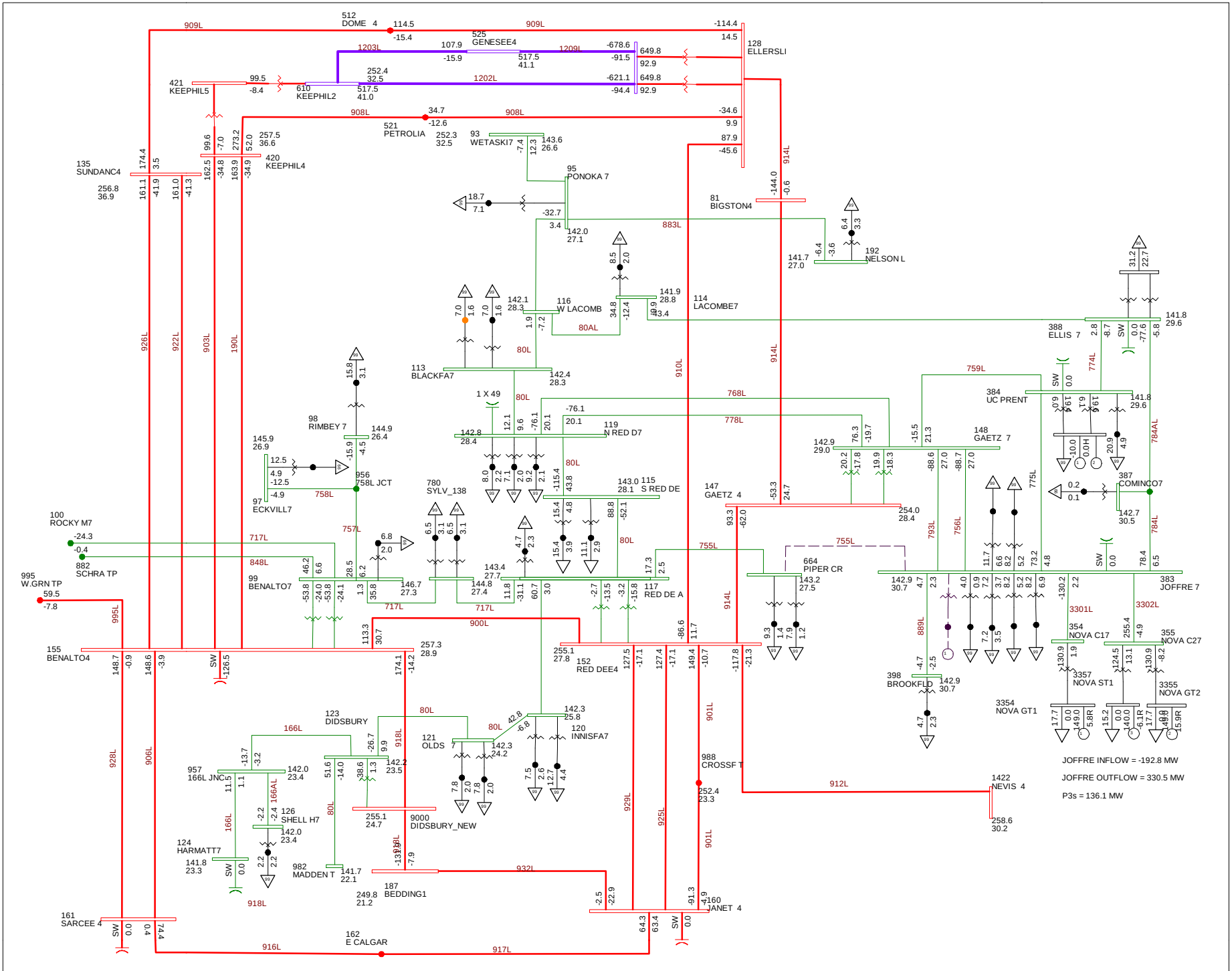
RED DEER REGION STUDY

2012 SUMMER LIGHT BASE CASE REVISION 6.5

FIG 2012-ALT1-LOAD-SL-32
138 KV 755L (RED DEER 63S TO PIPER CREEK 247S) OUTAGE
TUE, MAR 01 2011 14:36

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR

D-2012-114



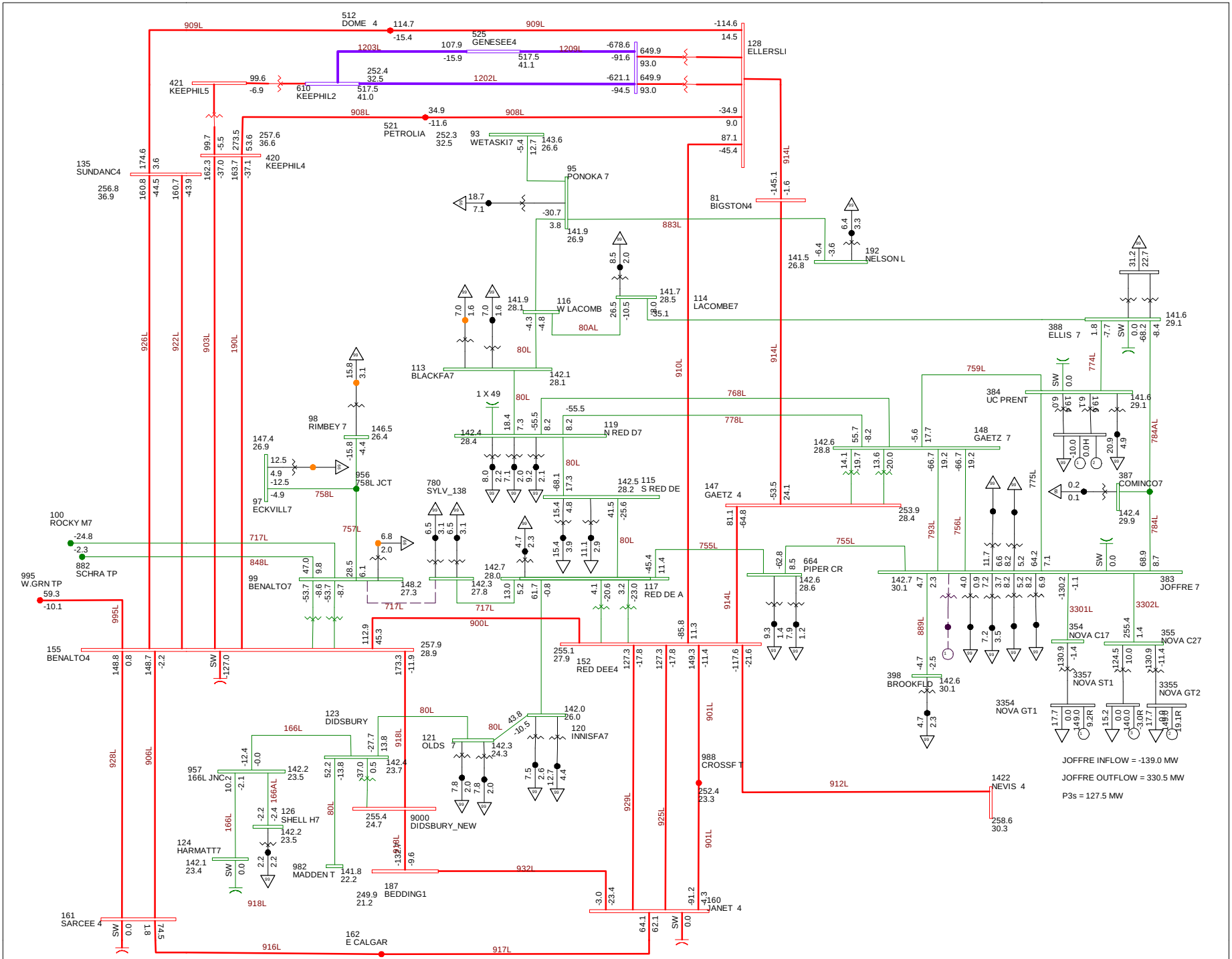
RED DEER REGION STUDY

2012 SUMMER LIGHT BASE CASE REVISION 6.5

FIG 2012-ALT1-LOAD-SL-33
138 KV 755L (JOFFRE 535S TO PIPER CREEK 247S) OUTAGE
TUE, MAR 01 2011 14:36

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR

D-2012-115



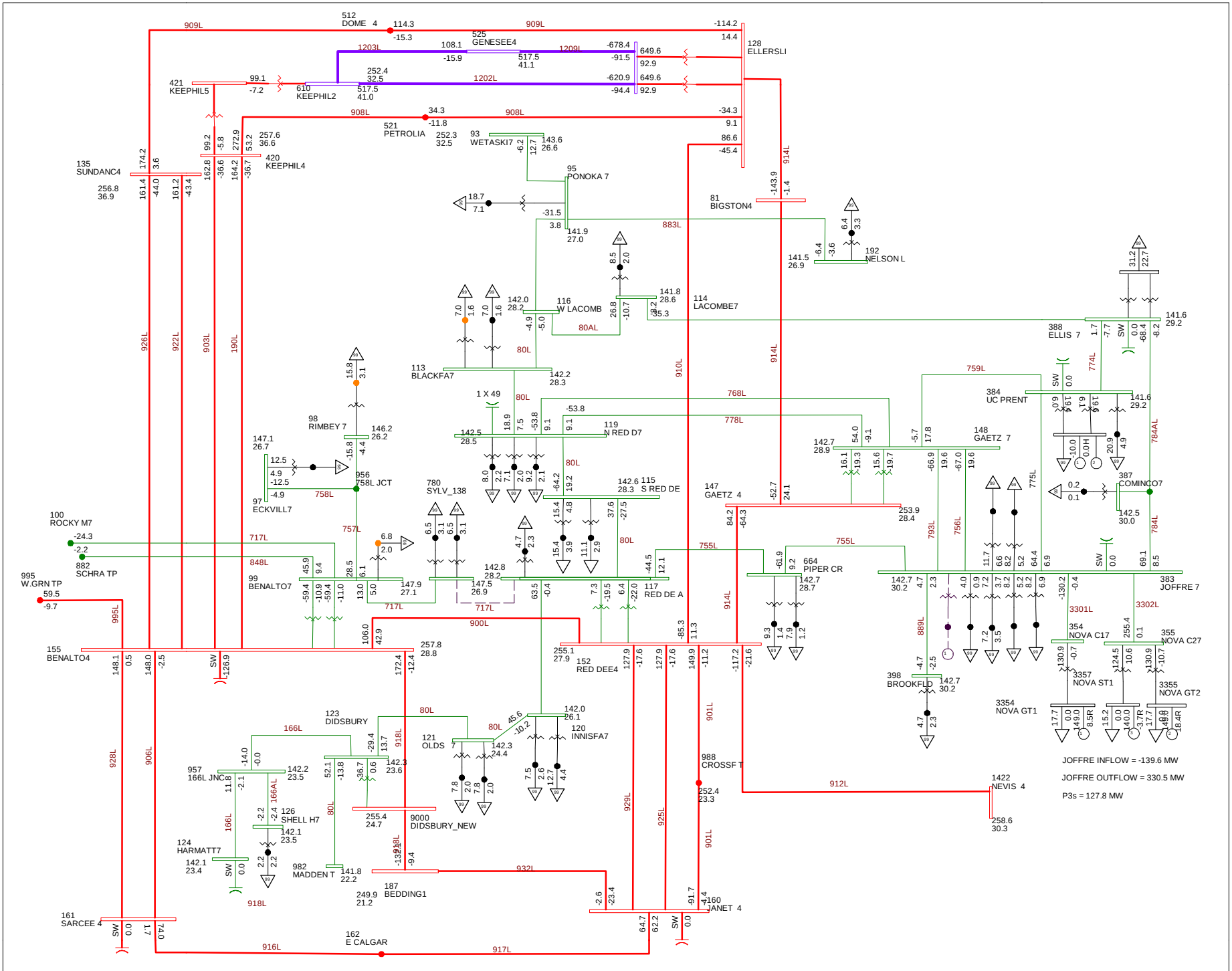
RED DEER REGION STUDY

2012 SUMMER LIGHT BASE CASE REVISION 6.5

FIG 2012-ALT1-LOAD-SL-34
138 KV 717L (BENALTO 17S TO SYLVAN LAKE 580S) OUTAGE
TUE, MAR 01 2011 14:36

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR

D-2012-116



RED DEER REGION STUDY

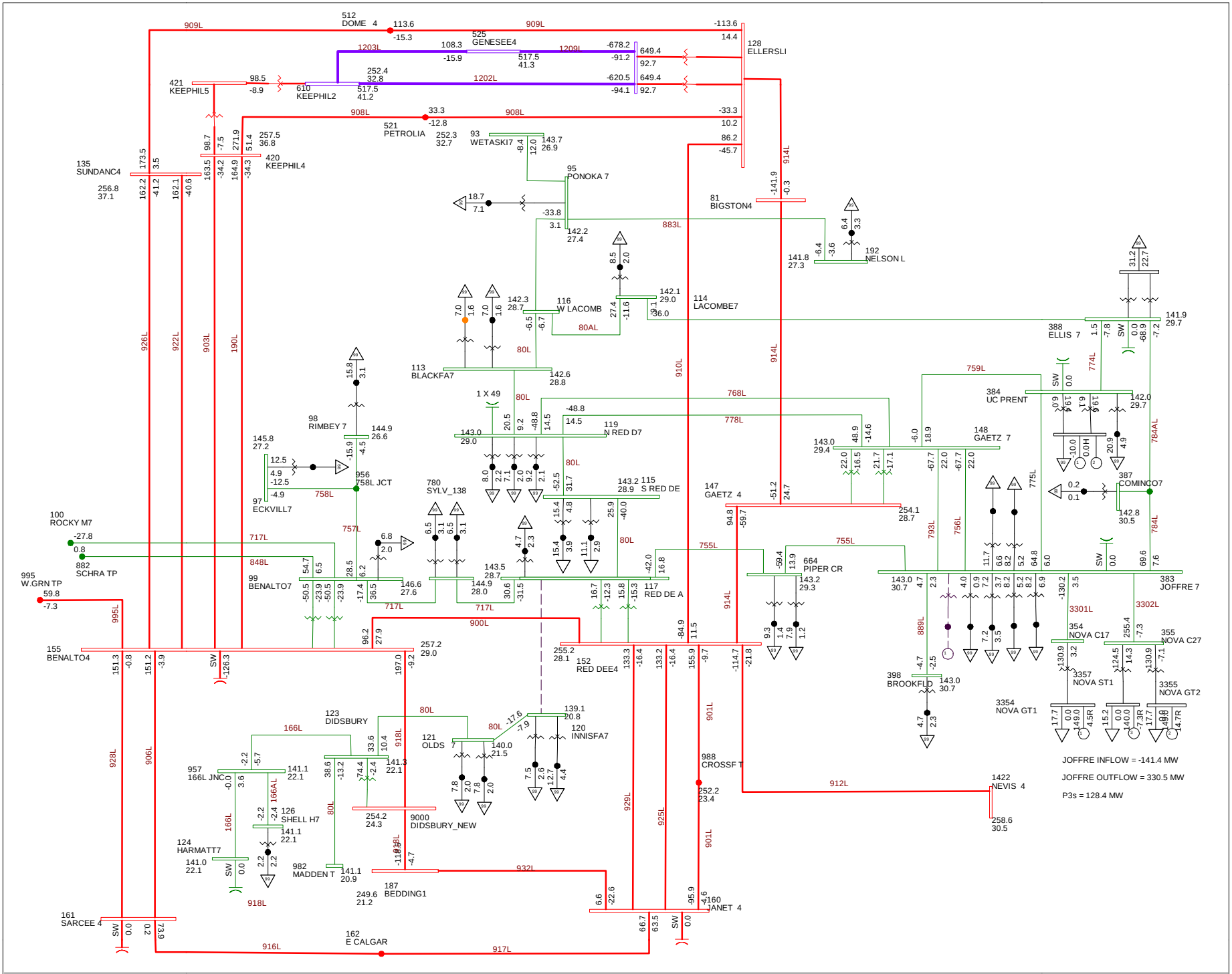
2012 SUMMER LIGHT BASE CASE REVISION 6.5

FIG 2012-ALT1-LOAD-SL-35
138 KV 717L (RED DEER 63S TO SYLVAN LAKE 580S) OUTAGE
TUE, MAR 01 2011 14:36

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
100.0%MBASE

KV: <=1.000 <=34.500 <=240.000
1.080OV 0.900UV <=72.000 <=138.000 <=500.000 >500.000

D-2012-117



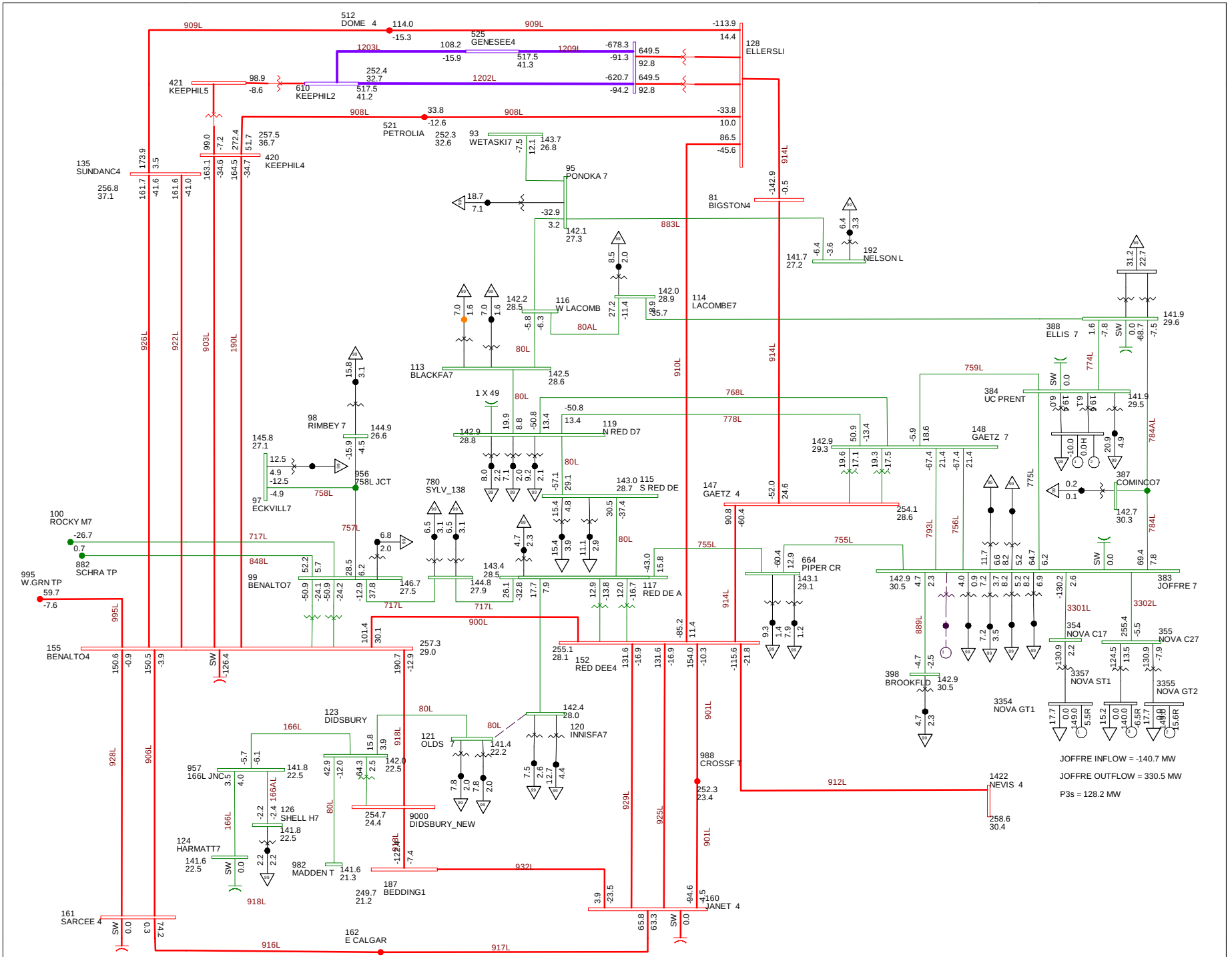
RED DEER REGION STUDY

2012 SUMMER LIGHT BASE CASE REVISION 6.5

FIG 2012-ALT1-LOAD-SL-36
138 KV 80L (RED DEER 63S TO INNISFAIL 214S) OUTAGE
TUE, MAR 01 2011 14:36

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR

D-2012-118



RED DEER REGION STUDY

2012 SUMMER LIGHT BASE CASE REVISION 6.5

FIG 2012-ALT1-LOAD-SL-37
138 KV 80L (INNISFAIL 214S TO OLDS 55S) OUTAGE
TUE, MAR 01 2011 14:36

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR

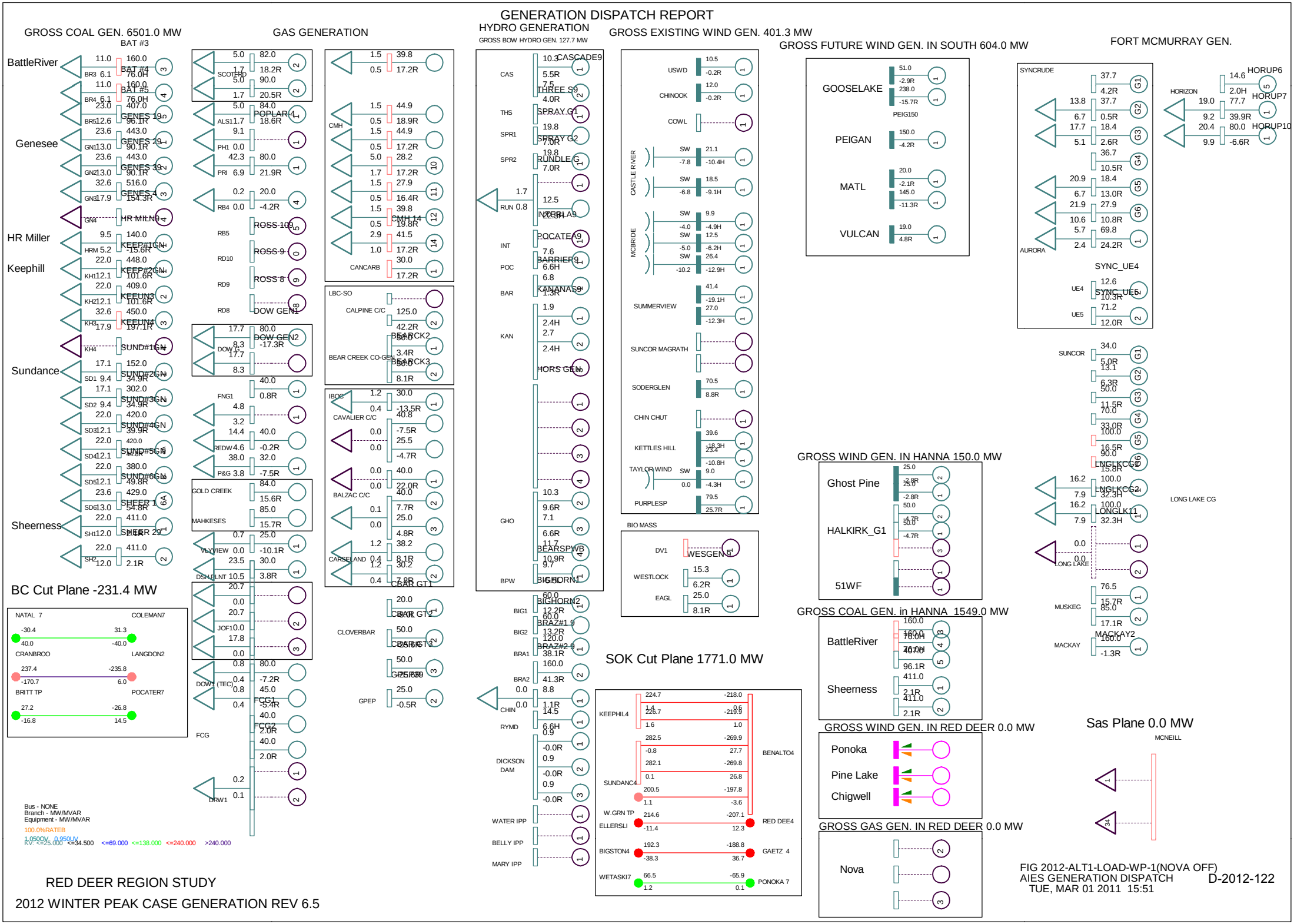
D-2012-119

Table D-2012-2: Summary of 2012 Load Adequacy Power Flow Analysis - Alternative 1 (WP with Nova OFF)

Figure No.	Contingency	Overloaded Element	Percent Overload	Other System Performance Concerns
Winter Peak				
Fig 2012-Alt1-Load-WP-1(Nova Off)	AIES Generation Dispatch	N/A	N/A	N/A
Fig 2012-Alt1-Load-WP-2(Nova Off)	All Elements in Service	None	N/A	None
Fig 2012-Alt1-Load-WP-3(Nova Off)	500kV 1202L (Ellerslie 89S to Keephills 320P)	None	N/A	None
Fig 2012-Alt1-Load-WP-4(Nova Off)	500kV 1209L (Ellerslie 89S to Genesee E330P)	None	N/A	None
Fig 2012-Alt1-Load-WP-5(Nova Off)	500kV 1203L (Genesee E330P to Keephills 320P)	None	N/A	None
Fig 2012-Alt1-Load-WP-6(Nova Off)	240kV 914L (Ellerslie 89S to Bigstone 86S)	None	N/A	None
Fig 2012-Alt1-Load-WP-7(Nova Off)	240kV 914L (Bigstone 86S to Gaetz 87S)	None	N/A	None
Fig 2012-Alt1-Load-WP-8(Nova Off)	240kV 910L (Ellerslie 89S to Red Deer 63S)	None	N/A	None
Fig 2012-Alt1-Load-WP-9(Nova Off)	240kV 914L (Gaetz 87S to Red Deer 63S)	None	N/A	None
Fig 2012-Alt1-Load-WP-10(Nova Off)	240kV 900L (Red Deer 63S to Benalto 17S)	None	N/A	None
Fig 2012-Alt1-Load-WP-11(Nova Off)	240kV 929/925L (Red Deer 63S to Janet 74S)	None	N/A	None
Fig 2012-Alt1-Load-WP-12(Nova Off)	240kV 901L (Red Deer 63S to Crossfield 64S)	None	N/A	None
Fig 2012-Alt1-Load-WP-13(Nova Off)	240kV 912L (Red Deer 63S to Nevis 766S)	None	N/A	None
Fig 2012-Alt1-Load-WP-14(Nova Off)	240 kV 926/922L (Sundance 310P to Benalto 17S)	None	N/A	None
Fig 2012-Alt1-Load-WP-15(Nova Off)	240kV 190/903L (Keephills 320P to Benalto 17S)	None	N/A	None
Fig 2012-Alt1-Load-WP-16(Nova Off)	240 kV 995L (Amoco Willesden Green 68S to Benalto 17S)	None	N/A	None
Fig 2012-Alt1-Load-WP-17(Nova Off)	240 kV 906/928L (Benalto 17S to Sarcee 42S)	None	N/A	None
Fig 2012-Alt1-Load-WP-18(Nova Off)	240 kV 918L (Benalto 17S to Didsbury Sub. (152S)	None	N/A	None
Fig 2012-Alt1-Load-WP-19(Nova Off)	240 kV 918L (Didsbury Sub. (152S) to Beddington 162S)	None	N/A	None
Fig 2012-Alt1-Load-WP-20(Nova Off)	240/138kV Transformer at Gaetz 87S	None	N/A	None
Fig 2012-Alt1-Load-WP-21(Nova Off)	240/138kV Transformer at Red Deer 63S	None	N/A	None
Fig 2012-Alt1-Load-WP-22(Nova Off)	240/138kV Transformer at Benalto 17S	None	N/A	None
Fig 2012-Alt1-Load-WP-23(Nova Off)	240/138kV Transformer at Didsbury Sub. (152S)	None	N/A	None
Fig 2012-Alt1-Load-WP-24(Nova Off)	138 kV 716L (Ponoka 331S to Wetaskiwin 40S)	None	N/A	None
Fig 2012-Alt1-Load-WP-25(Nova Off)	138 kV 80L (Ponoka 331S to W. Lacombe 958S)	None	N/A	None

Figure No.	Contingency	Overloaded Element	Percent Overload	Other System Performance Concerns
Fig 2012-Alt1-Load-WP-26(Nova Off)	138 kV 80L (W. Lacombe 958S to Blackfalds 198S)	None	N/A	None
Fig 2012-Alt1-Load-WP-27(Nova Off)	138 kV 80L (Blackfalds 198S to N. Red Deer 217S)	None	N/A	None
Fig 2012-Alt1-Load-WP-28(Nova Off)	138 kV 80L (N. Red Deer 217S to S. Red Deer 194S)	None	N/A	None
Fig 2012-Alt1-Load-WP-29(Nova Off)	138 kV 768L (N. Red Deer 217S to Gaetz 87S)	None	N/A	None
Fig 2012-Alt1-Load-WP-30(Nova Off)	138 kV 793/756L (Gaetz 87S to Joffre 535S)	None	N/A	None
Fig 2012-Alt1-Load-WP-31(Nova Off)	138 kV 80L (S. Red Deer 194S to Red Deer 63S)	None	N/A	None
Fig 2012-Alt1-Load-WP-32(Nova Off)	138 kV 755L (Red Deer 63S to Piper Creek 247S)	None	N/A	None
Fig 2012-Alt1-Load-WP-33(Nova Off)	138 kV 755L (Joffre 535S to Piper Creek 247S)	None	N/A	None
Fig 2012-Alt1-Load-WP-34(Nova Off)	138 kV 717L (Benalto 17S to Sylvan Lake 580S)	None	N/A	None
Fig 2012-Alt1-Load-WP-35(Nova Off)	138 kV 717L (Red Deer 63S to Sylvan Lake 580S)	None	N/A	None
Fig 2012-Alt1-Load-WP-36(Nova Off)	138 kV 80L (Red Deer 63S to Innisfail 214S)	None	N/A	None
Fig 2012-Alt1-Load-WP-37(Nova Off)	138 kV 80L (Innisfail 214S To Olds 55S)	None	N/A	None

GENERATION DISPATCH REPORT

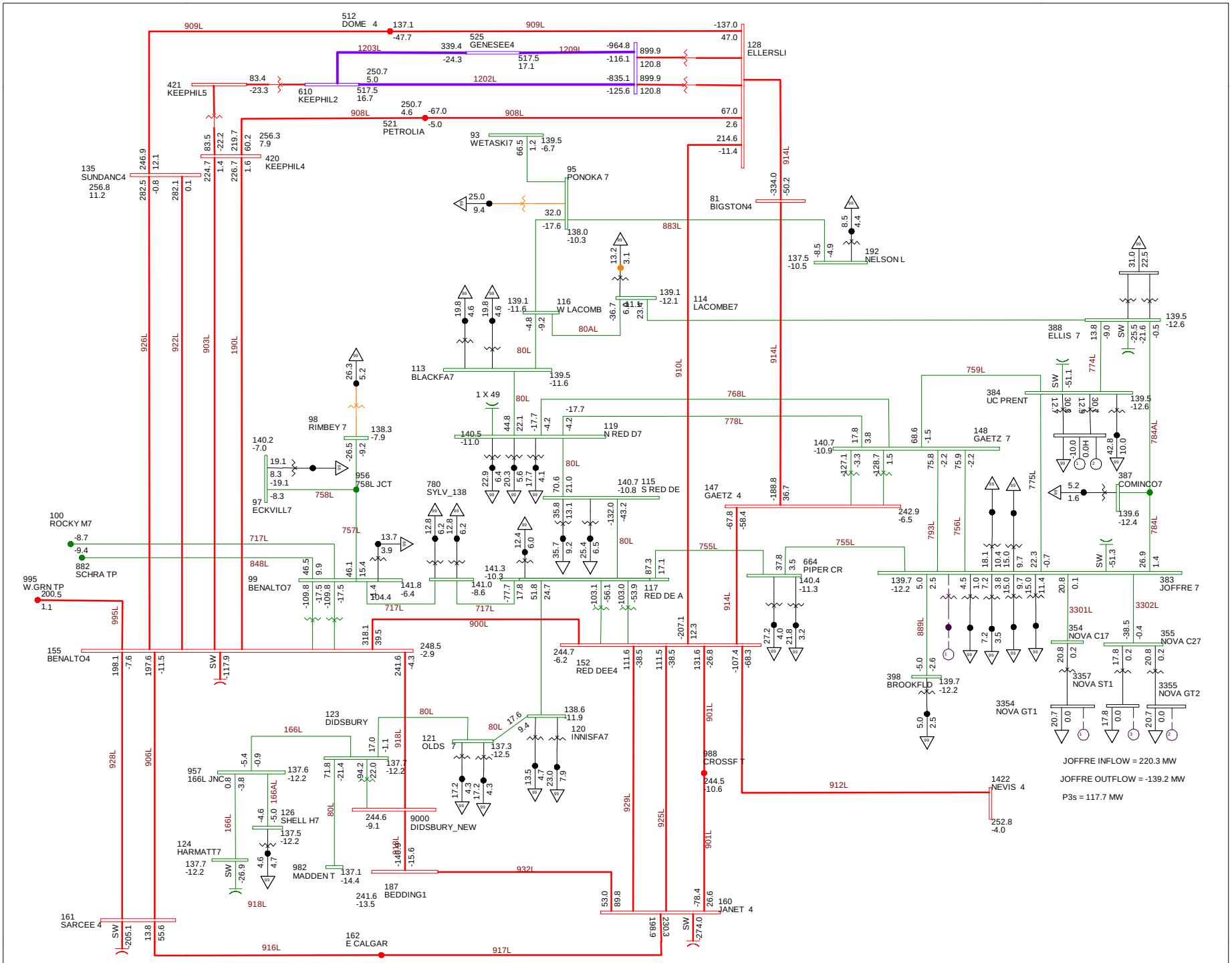


RED DEER REGION STUDY

2012 WINTER PEAK CASE GENERATION REV 6.5

FIG 2012-ALT1-LOAD-WP-1(NOVA OFF)
AIES GENERATION DISPATCH
TUE, MAR 01 2011 15:51

D-2012-122

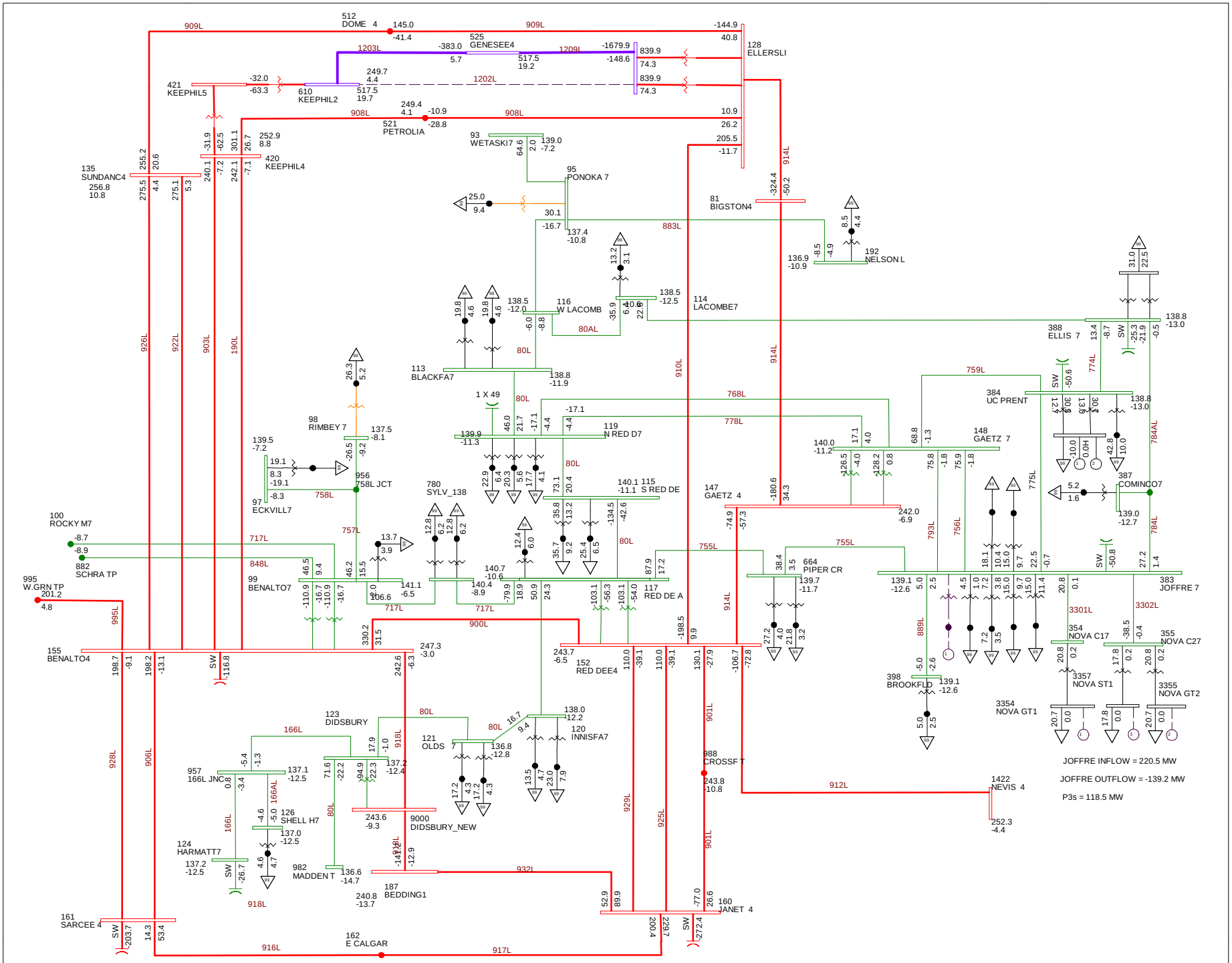


RED DEER REGION STUDY

2012 WINTER PEAK BASE CASE REVISION 6.5

FIG 2012-ALT1-LOAD-WP-2(NOVA OFF)
ALL ELEMENTS IN SERVICE
TUE, MAR 01 2011 15:51

D-2012-123



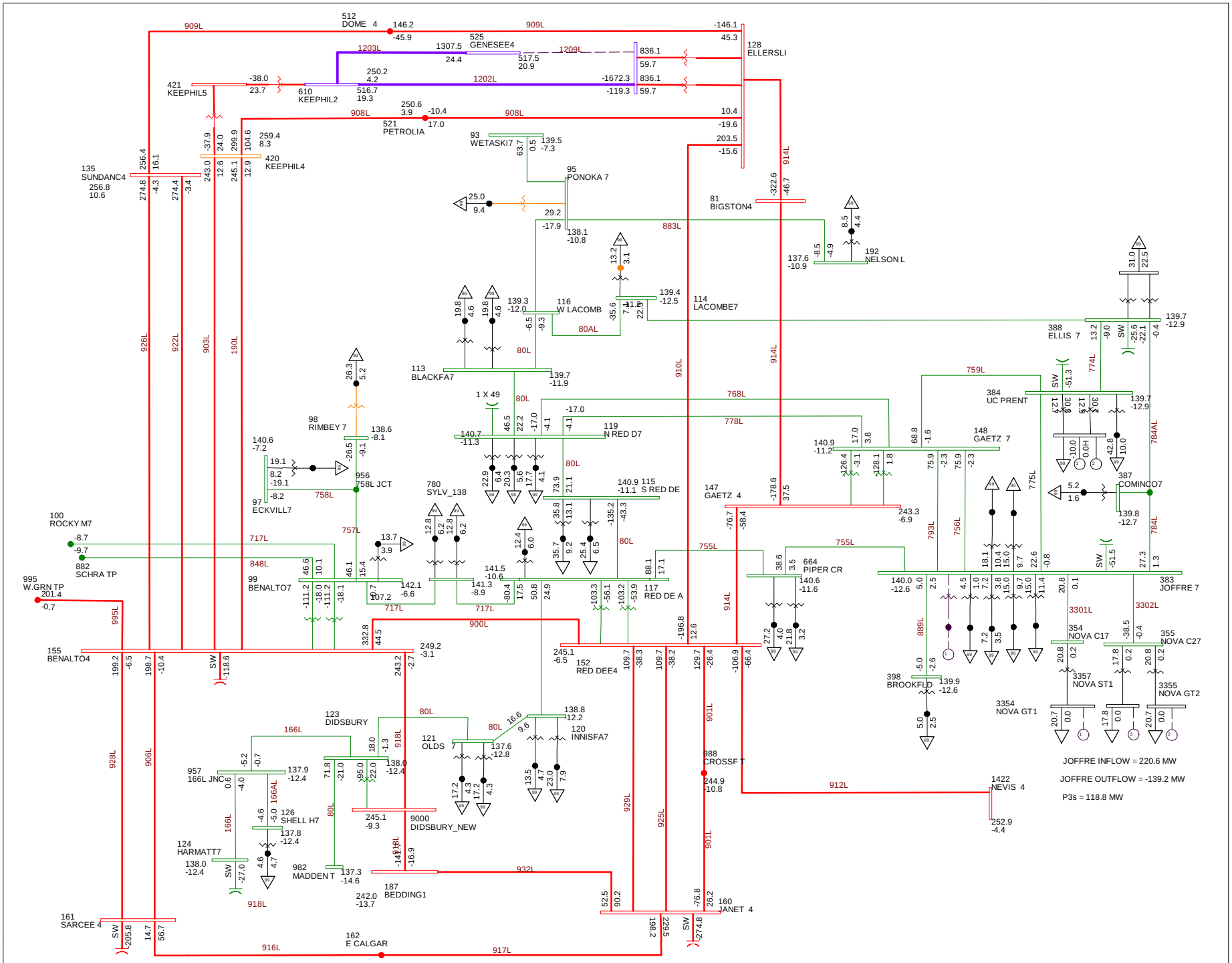
RED DEER REGION STUDY

2012 WINTER PEAK BASE CASE REVISION 6.5

FIG 2012-ALT1-LOAD-WP-3(NOVA OFF)
500KV 1202L (ELLERSLIE 89S TO KEEPHILLS 320P) OUTAGE
TUE, MAR 01 2011 15:51

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
100.0%RATEB
KV: <=1.000 | <=34.500 | <=138.000 | <=500.000
1.050UV | <=72.000 | <=240.000 | >500.000
0.900UV

D-2012-124



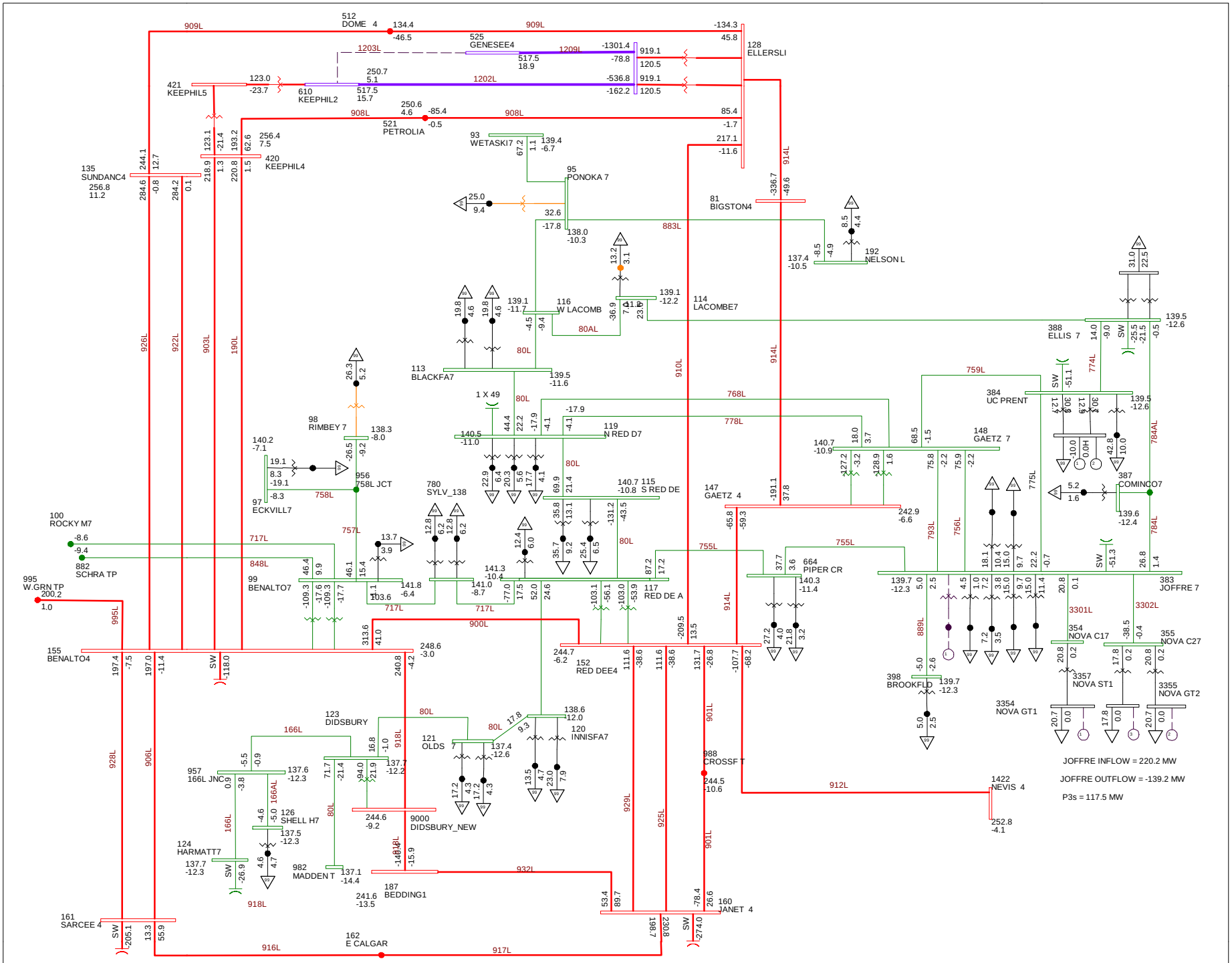
RED DEER REGION STUDY

2012 WINTER PEAK BASE CASE REVISION 6.5

FIG 2012-ALT1-LOAD-WP-4(NOVA OFF)
500KV 1209L (ELLERSLIE 89S TO GENESEE E330P) OUTAGE
TUE, MAR 01 2011 15:52

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
100.0%RATE
KV: <=1.000 <=34.500 <=138.000 <=500.000
1.050UV <=72.000 <=240.000 >500.000
0.900UV

D-2012-125



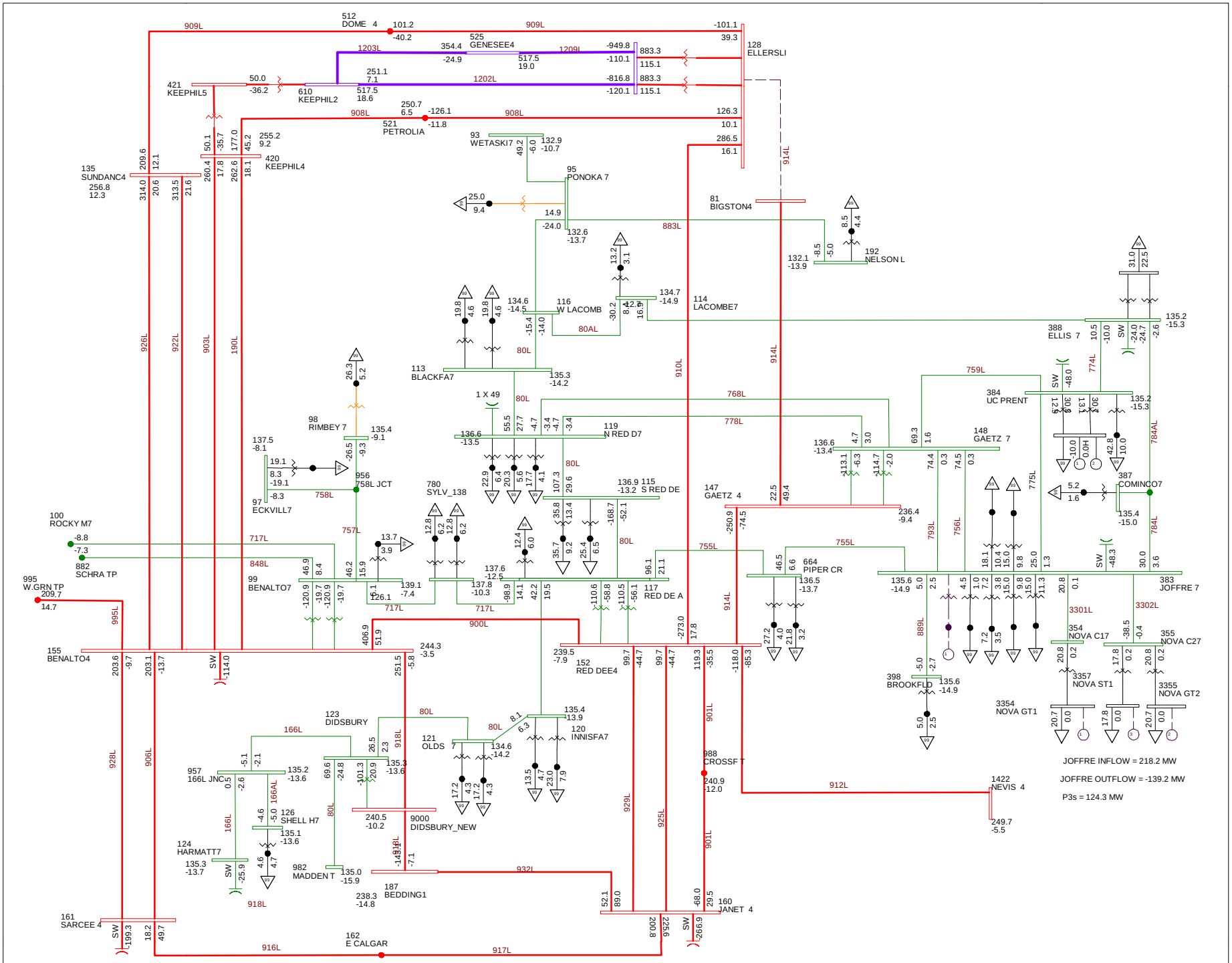
RED DEER REGION STUDY

2012 WINTER PEAK BASE CASE REVISION 6.5

FIG 2012-ALT1-LOAD-WP-5(NOVA OFF)
500KV 1203L (GENESEE E330P TO KEEPHILLS 320P) OUTAGE
TUE, MAR 01 2011 15:52

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
100.0%RATE
KV: <=1.000 <=34.500 <=138.000 <=500.000
1.050UV <=72.000 <=240.000 >500.000
0.900UV

D-2012-126



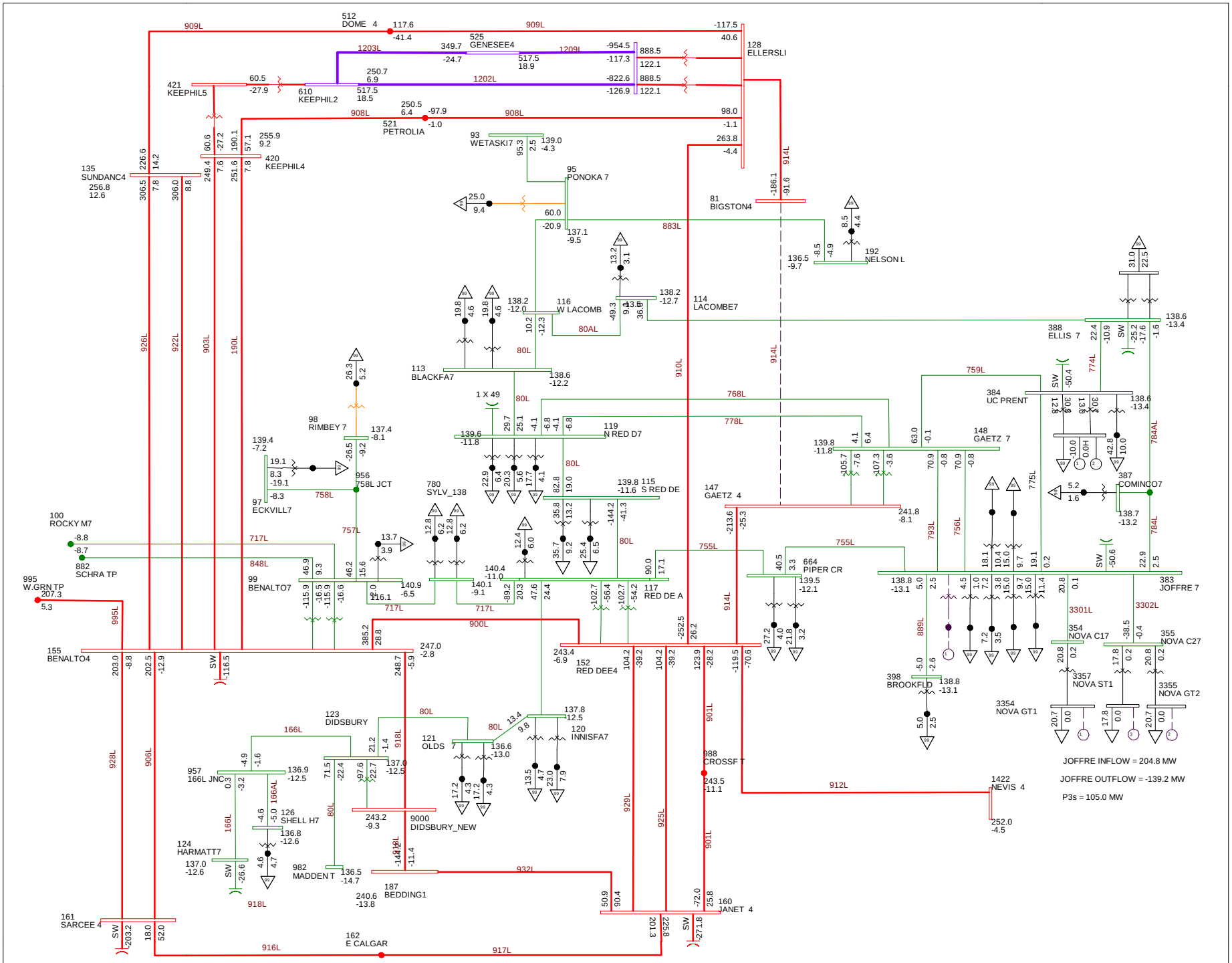
RED DEER REGION STUDY

2012 WINTER PEAK BASE CASE REVISION 6.5

FIG 2012-ALT1-LOAD-WP-6(NOVA OFF)
240KV 914L (ELLERSLIE 89S TO BIGSTONE 86S) OUTAGE
TUE, MAR 01 2011 15:52

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
100.0%RATE
KV: <=1.000 <=34.500 <=138.000 <=500.000
1.050OV <=72.000 <=240.000 >500.000
0.900UV

D-2012-127



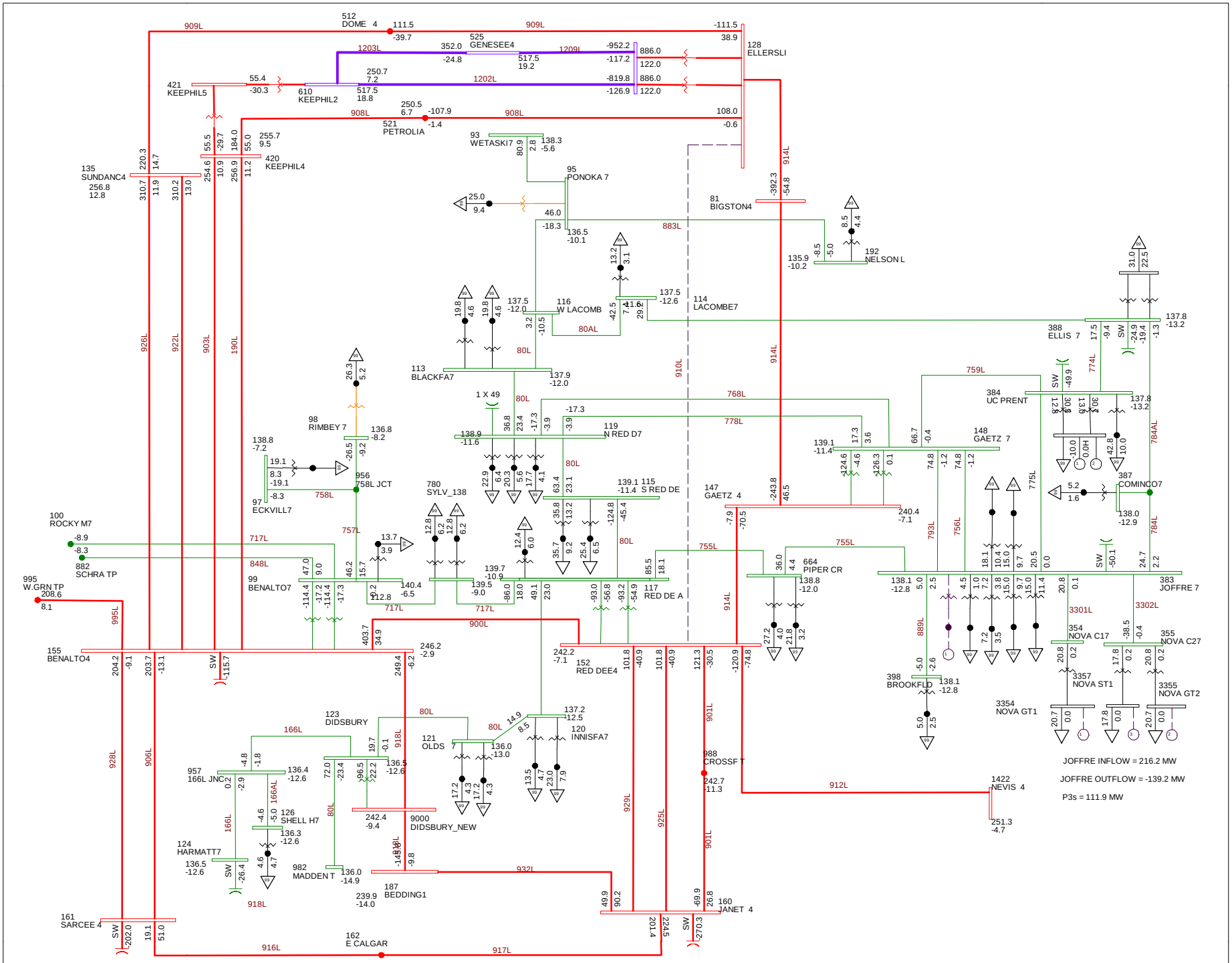
RED DEER REGION STUDY

2012 WINTER PEAK BASE CASE REVISION 6.5

FIG 2012-ALT1-LOAD-WP-7(NOVA OFF)
240KV 914L (BIGSTONE 86S TO GAETZ 87S) OUTAGE
TUE, MAR 01 2011 15:52

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
100.0%RATE
KV: <=1.000 <=34.500 <=138.000 <=500.000
1.050OV <=72.000 <=240.000 >500.000
0.900UV

D-2012-128



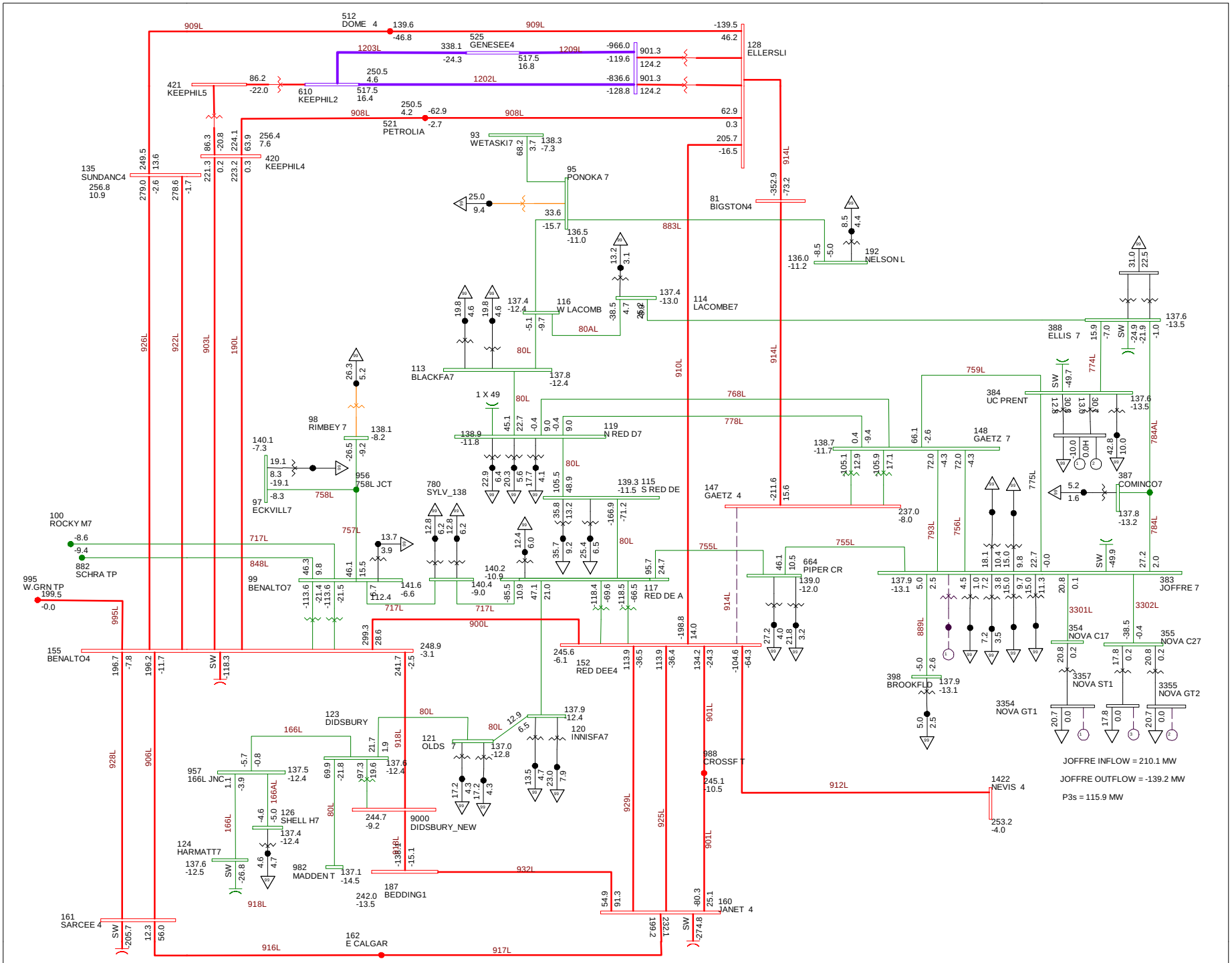
RED DEER REGION STUDY

2012 WINTER PEAK BASE CASE REVISION 6.5

FIG 2012-ALT1-LOAD-WP-8(NOVA OFF)
240KV 910L (ELLERSLIE 89S TO RED DEER 63S) OUTAGE
TUE, MAR 01 2011 15:52

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
100.0%RATE
KV: <=1.000 1.050OV 0.900UV
<=34.500 <=72.000
<=138.000 <=240.000
<=500.000 >500.000

D-2012-129



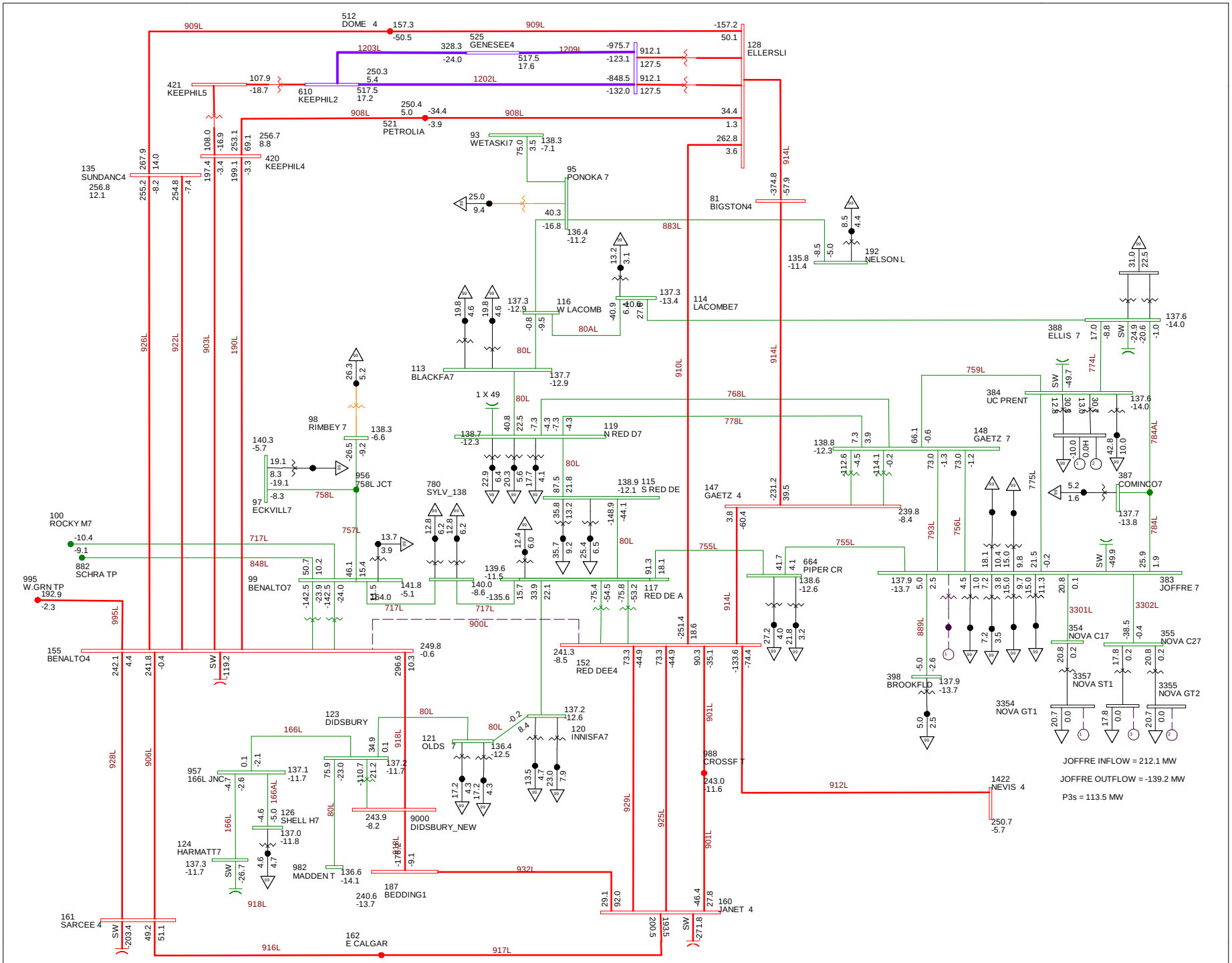
RED DEER REGION STUDY

2012 WINTER PEAK BASE CASE REVISION 6.5

FIG 2012-ALT1-LOAD-WP-9(NOVA OFF)
240KV 914L (GAETZ 87S TO RED DEER 63S) OUTAGE
TUE, MAR 01 2011 15:52

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
100.0%RATE
KV: <=1.000 <=34.500 <=138.000 <=500.000
1.050OV <=72.000 <=240.000 >500.000
0.900UV

D-2012-130



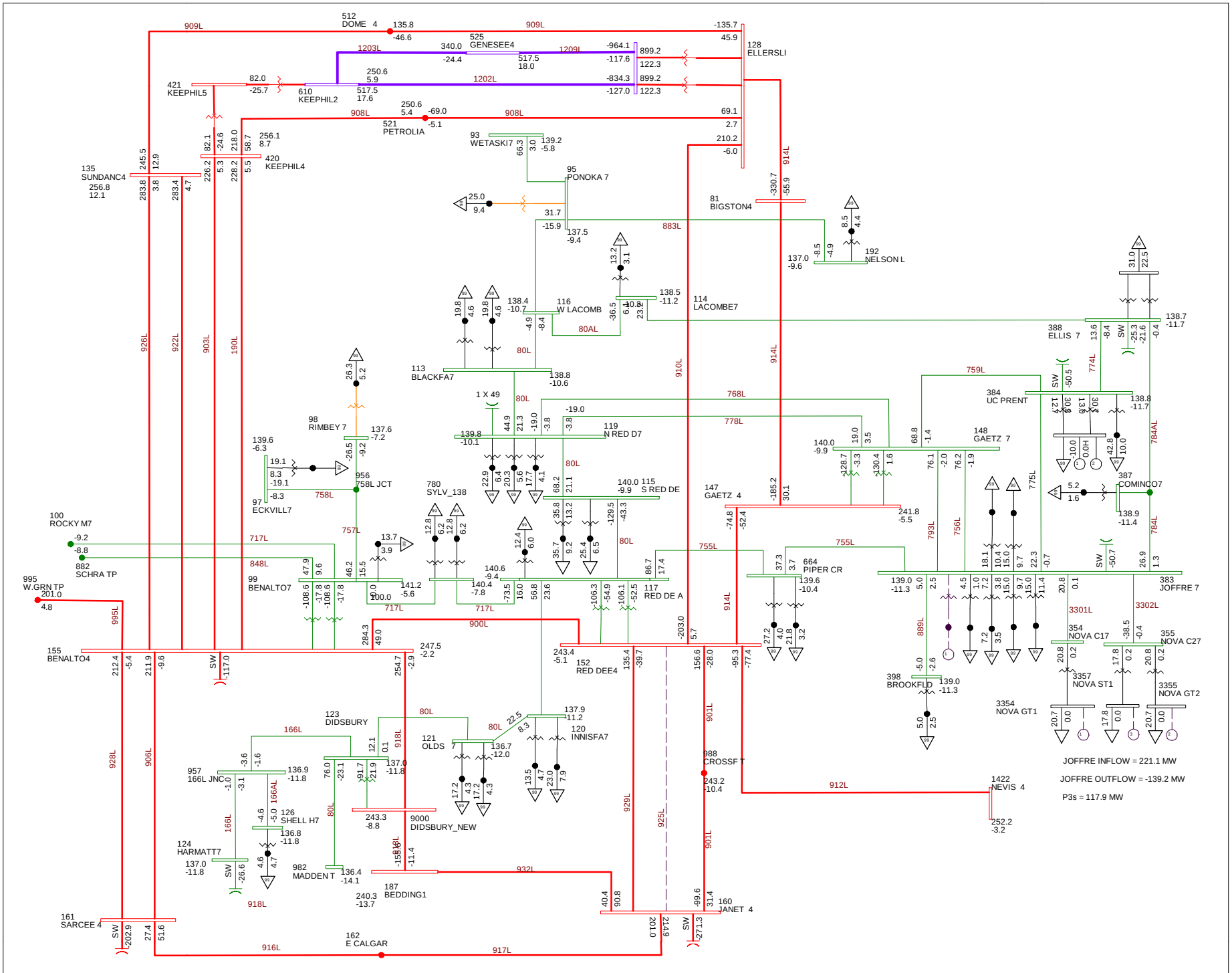
RED DEER REGION STUDY

2012 WINTER PEAK BASE CASE REVISION 6.5

FIG 2012-ALT1-LOAD-WP-10(NOVA OFF)
240KV 900L (RED DEER 63S TO BENALTO 17S) OUTAGE
TUE, MAR 01 2011 15:52

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
100.0%RATE
KV: <=1.000 <=34.500 <=138.000 <=500.000
1.050UV <=72.000 <=240.000 >500.000
0.900UV

D-2012-131



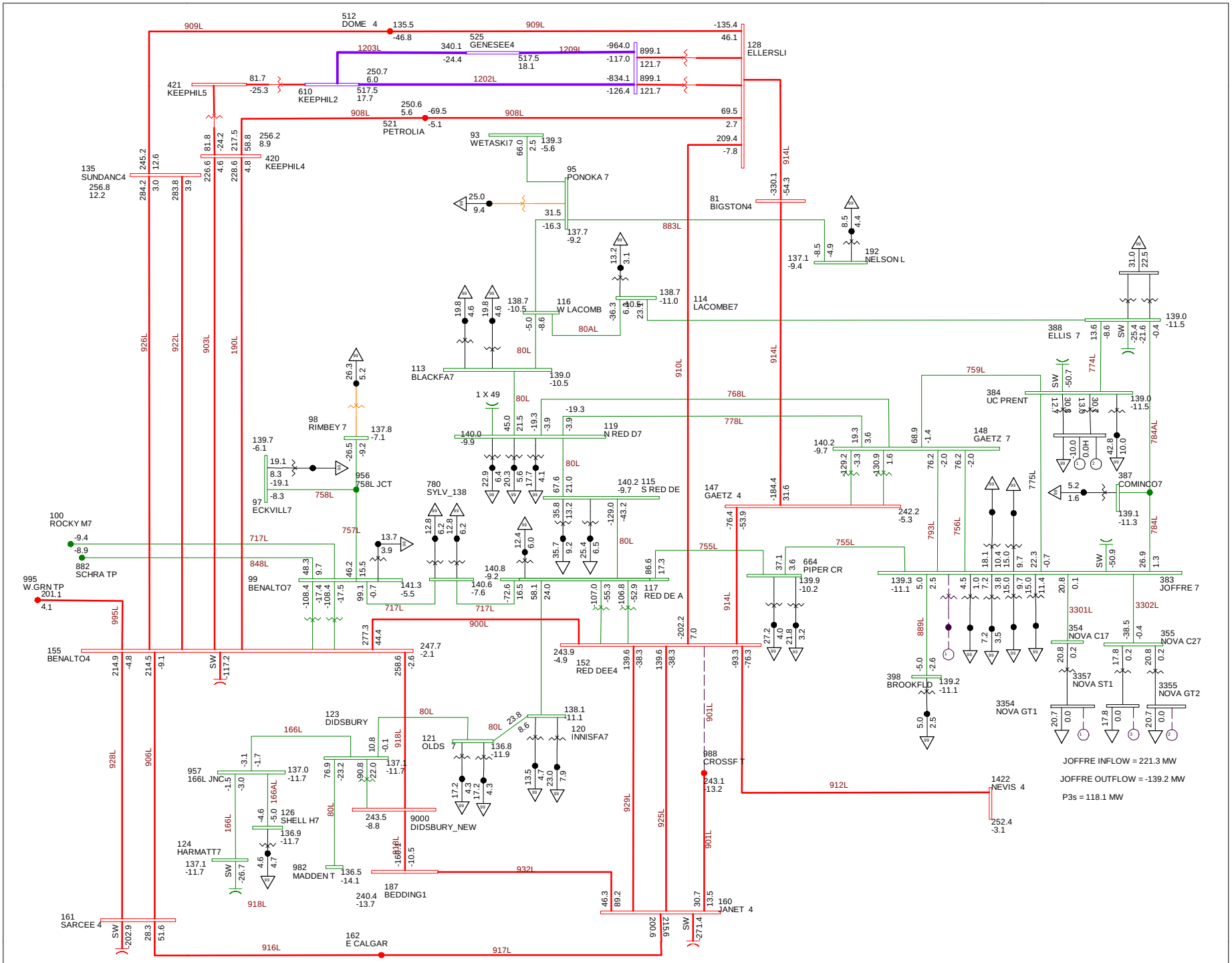
RED DEER REGION STUDY

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FIG 2012-ALT1-LOAD-WP-11(NOVA OFF)
240KV 929/925L (RED DEER 63S TO JANET 74S) OUTAGE
TUE, MAR 01 2011 15:52

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
100.0%RATE
KV: <=1.000 <=34.500 <=138.000 <=500.000
1.050OV <=72.000 <=240.000 >500.000
0.900UV

D-2012-132



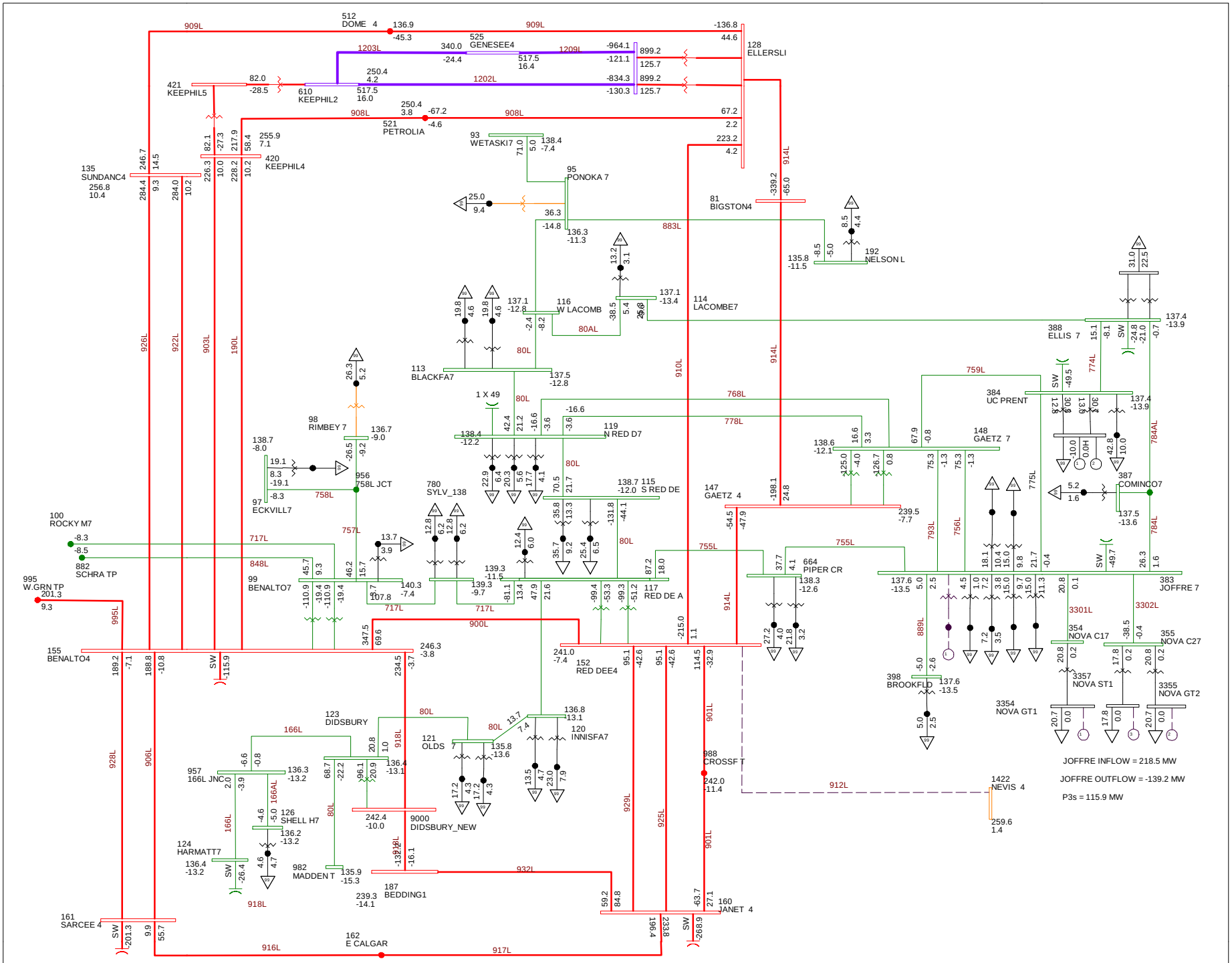
RED DEER REGION STUDY

2012 WINTER PEAK BASE CASE REVISION 6.5

FIG 2012-ALT1-LOAD-WP-12(NOVA OFF)
240KV 901L (RED DEER 63S TO CROSSFIELD 64S) OUTAGE
TUE, MAR 01 2011 15:52

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
100.0%RATE
KV: <=1.000 | <=34.500 | <=138.000 | <=500.000
1.050UV | <=72.000 | <=240.000 | >500.000
0.900UV

D-2012-133



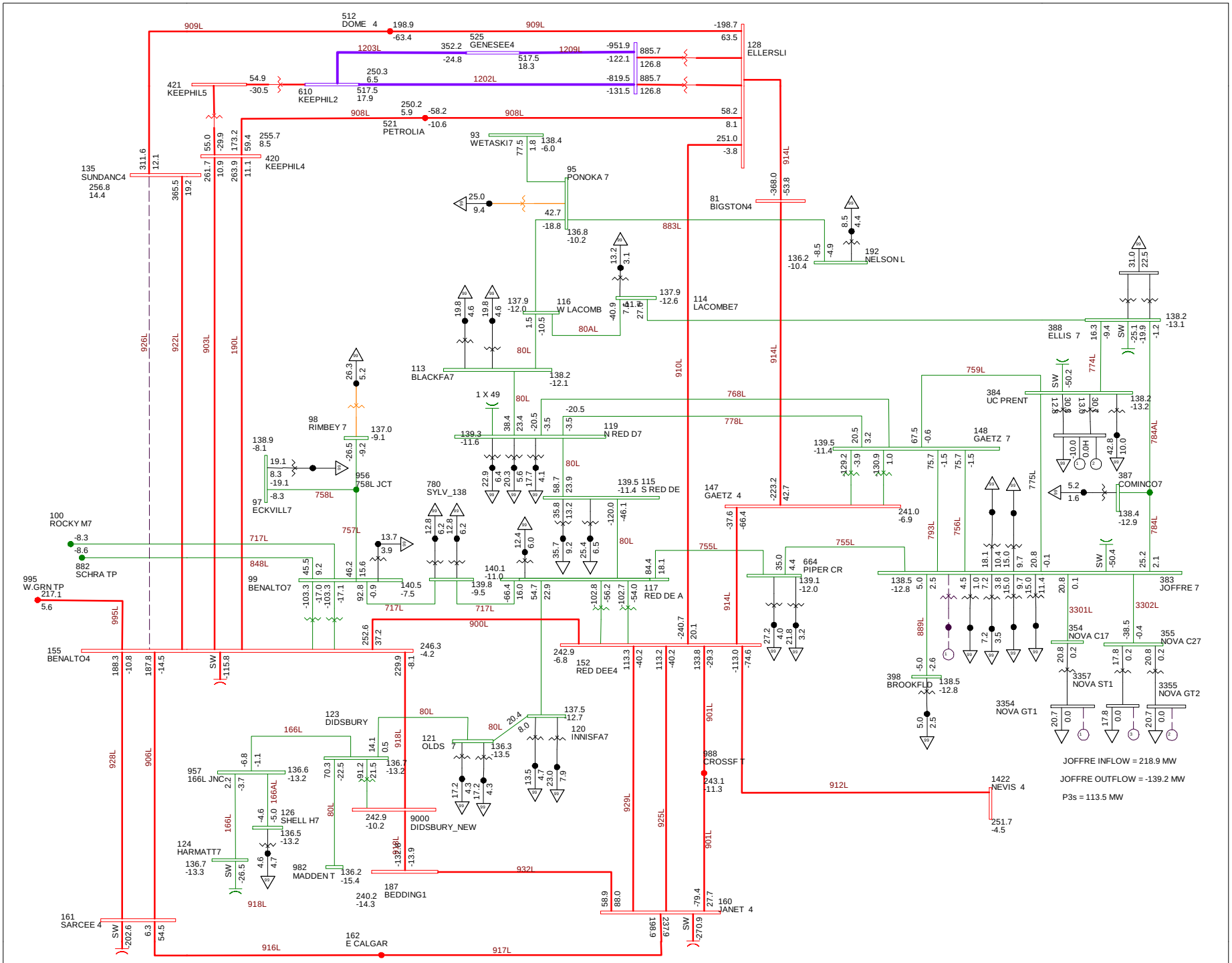
RED DEER REGION STUDY

2012 WINTER PEAK BASE CASE REVISION 6.5

FIG 2012-ALT1-LOAD-WP-13(NOVA OFF)
240KV 912L (RED DEER 63S TO NEVIS 766S) OUTAGE
TUE, MAR 01 2011 15:52

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
100.0%RATE
KV: <=1.000 <=34.500 <=138.000 <=500.000
1.050OV <=72.000 <=240.000 >500.000
0.900UV

D-2012-134



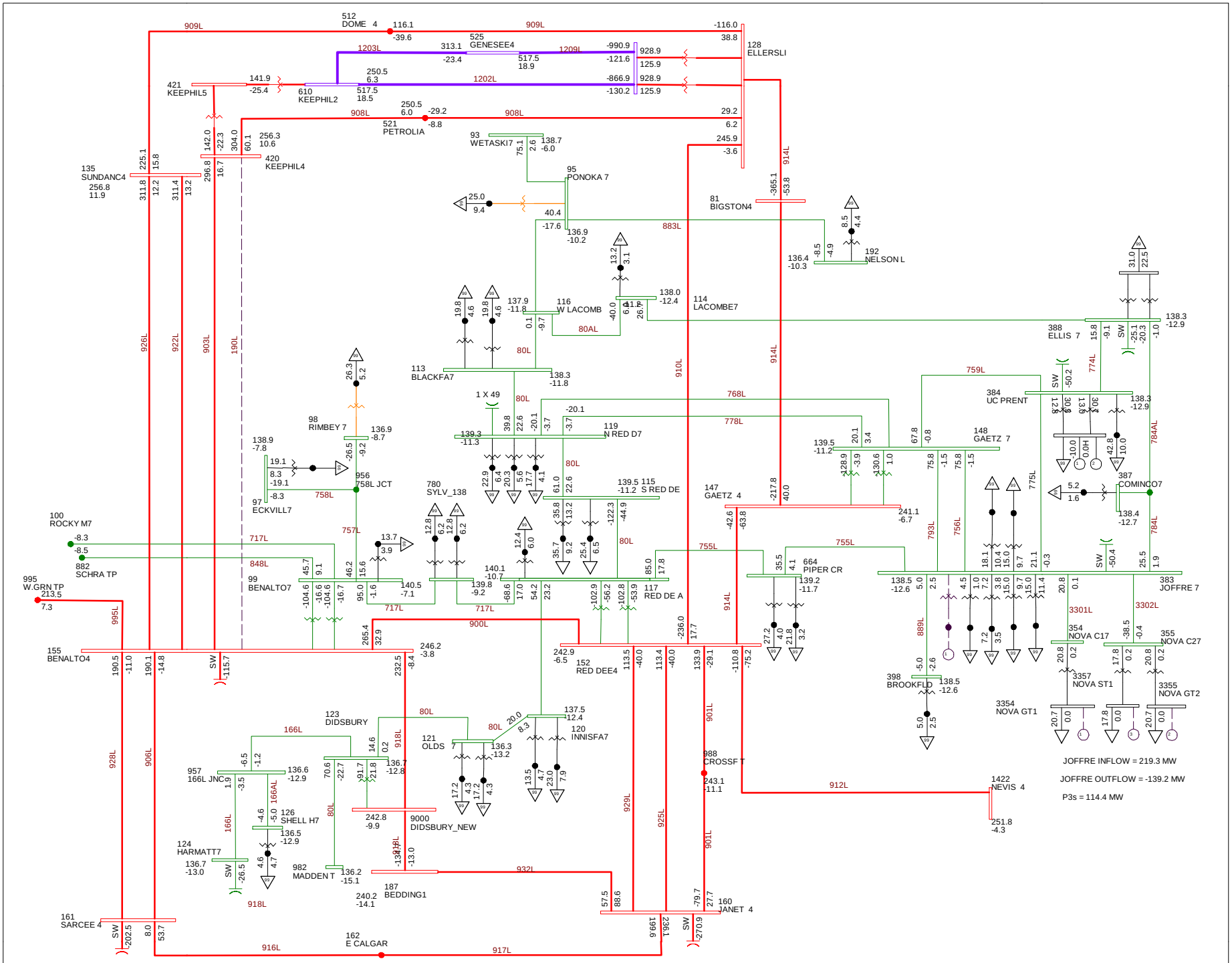
RED DEER REGION STUDY

2012 WINTER PEAK BASE CASE REVISION 6.5

FIG 2012-ALT1-LOAD-WP-14(NOVA OFF)
240 KV 926/922L (SUNDANCE 310P TO BENALTO 17S) OUTAGE
TUE, MAR 01 2011 15:52

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
100.0%RATE
KV: <=1.000 <=34.500 <=138.000 <=500.000
1.050UV <=72.000 <=240.000 >500.000
0.900UV

D-2012-135



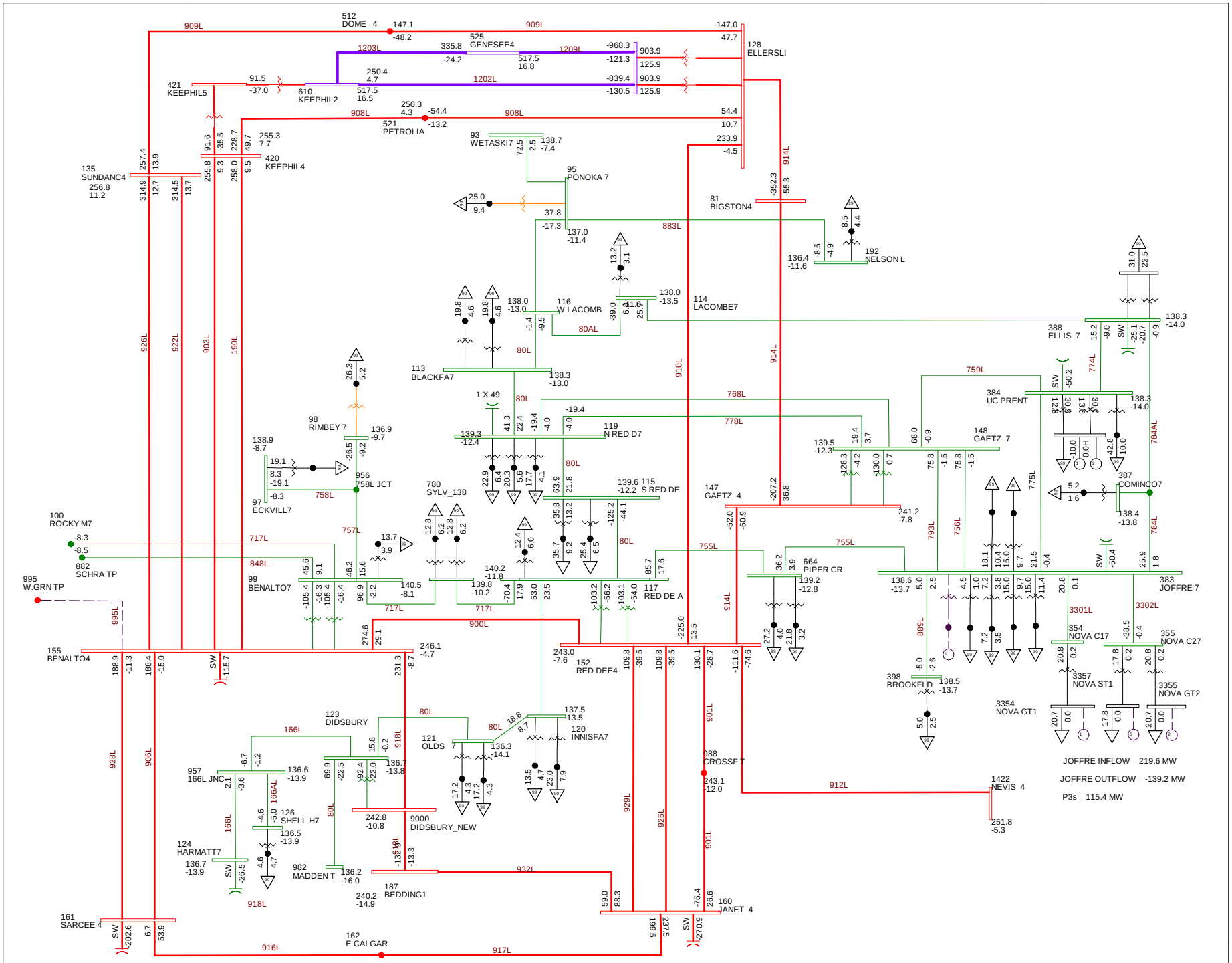
RED DEER REGION STUDY

2012 WINTER PEAK BASE CASE REVISION 6.5

FIG 2012-ALT1-LOAD-WP-15(NOVA OFF)
240KV 190/903L (KEEPHILLS 320P TO BENALTO 17S) OUTAGE
TUE, MAR 01 2011 15:52

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
100.0%RATE
KV: <=1.000 <=34.500 <=138.000 <=500.000
1.050UV <=72.000 <=240.000 >500.000
0.900UV

D-2012-136



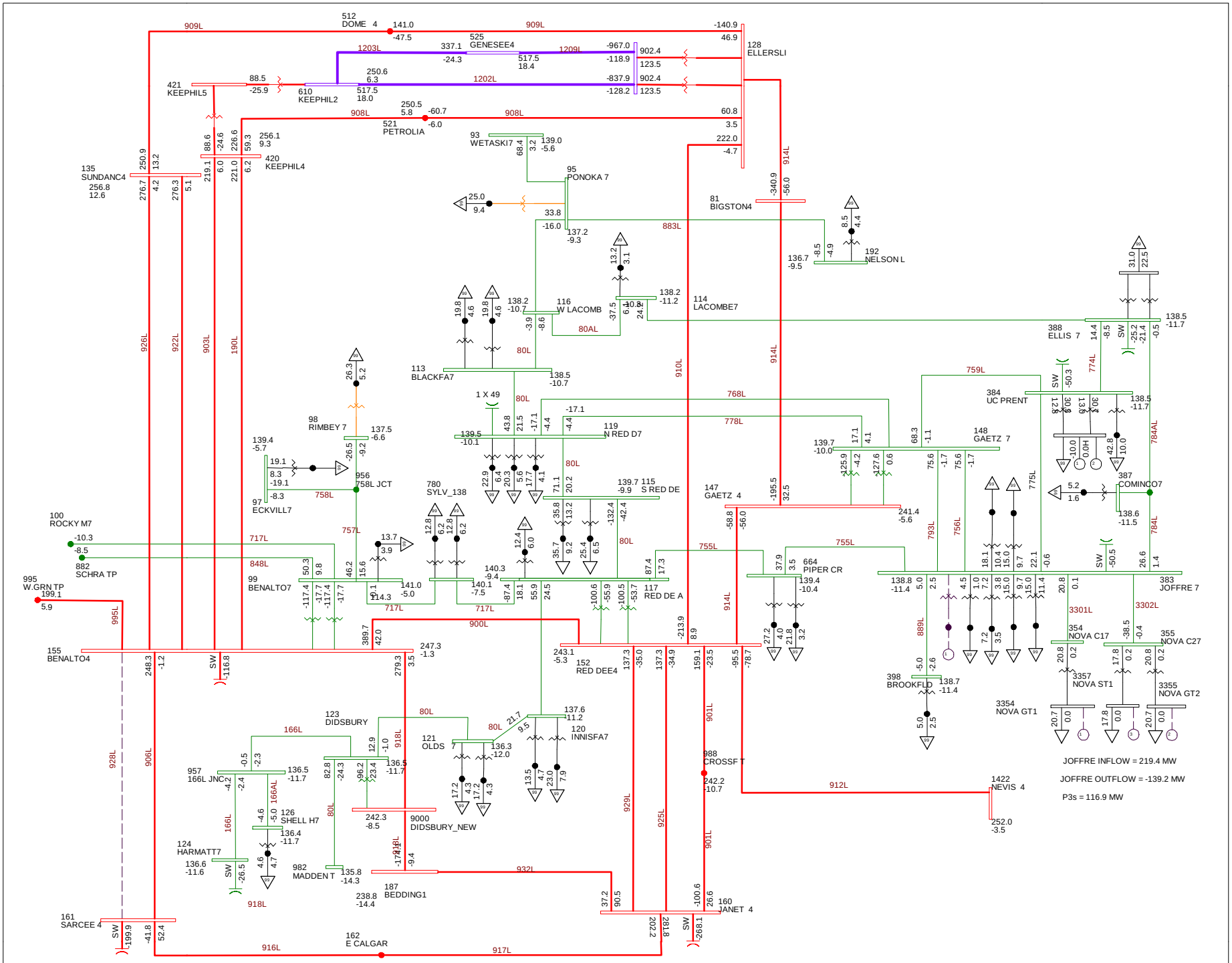
RED DEER REGION STUDY

2012 WINTER PEAK BASE CASE REVISION 6.5

FIG 2012-ALT1-LOAD-WP-16(NOVA OFF)
240 KV 995L (AMOCO WILLESDEN GREEN 68S TO BENALTO 17S) OUTAG
TUE, MAR 01 2011 15:52

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
100.0%RATE
KV: <=1.000 <=34.500 <=138.000 <=500.000
1.050OV <=72.000 <=240.000 >500.000
0.900UV

D-2012-137



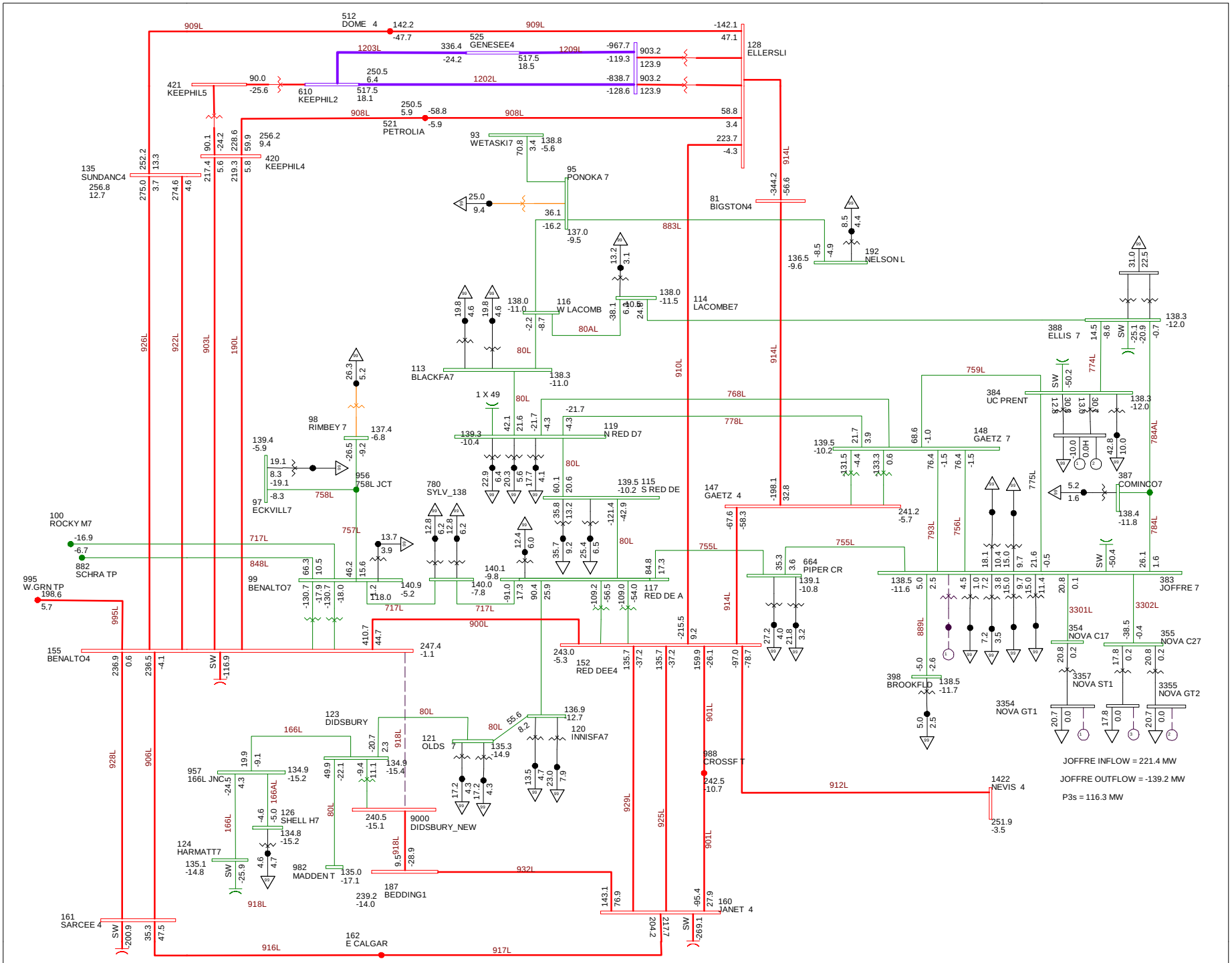
RED DEER REGION STUDY

2012 WINTER PEAK BASE CASE REVISION 6.5

FIG 2012-ALT1-LOAD-WP-17(NOVA OFF)
240 KV 906/928L (BENALTO 17S TO SARCEE 42S) OUTAGE
TUE, MAR 01 2011 15:52

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
100.0%RATE
KV: <=1.000 <=34.500 <=138.000 <=500.000
1.050OV <=72.000 <=240.000 >500.000
0.900UV

D-2012-138



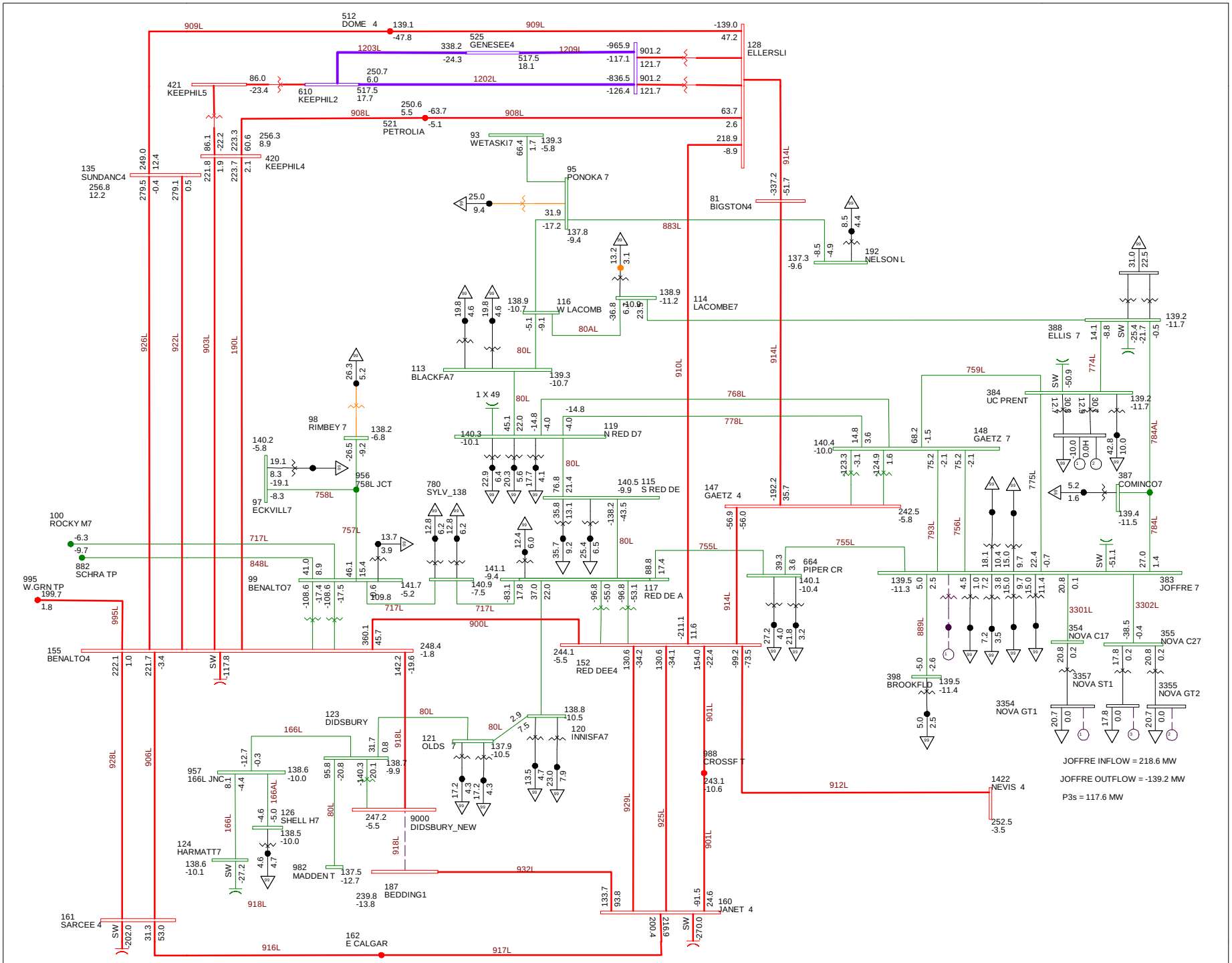
RED DEER REGION STUDY

2012 WINTER PEAK BASE CASE REVISION 6.5

FIG 2012-ALT1-LOAD-WP-18(NOVA OFF)
240 KV 918L (BENALTO 17S TO DIDSBURY SUB. (152S)) OUTAGE
TUE, MAR 01 2011 15:52

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
100.0%RATE
KV: <=1.000 <=34.500 <=138.000 <=500.000
1.050UV <=72.000 <=240.000 >500.000
0.900UV

D-2012-139



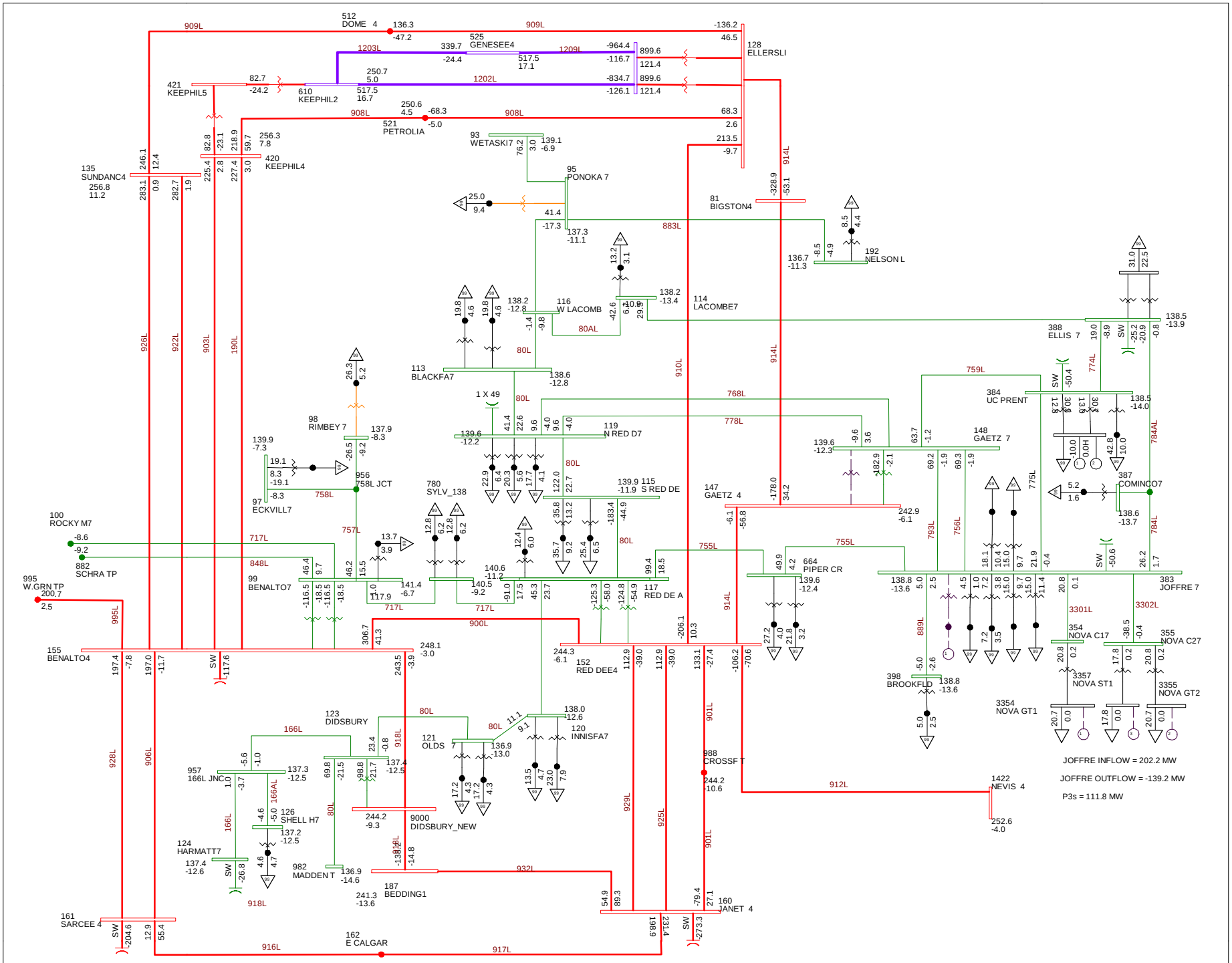
RED DEER REGION STUDY

2012 WINTER PEAK BASE CASE REVISION 6.5

FIG 2012-ALT1-LOAD-WP-19(NOVA OFF)
240 KV 918L (DIDSBURY SUB. (152S) TO BEDDINGTON 162S) OUTAGE
TUE, MAR 01 2011 15:52

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
100.0%RATE
KV: <=1.000 <=34.500 <=138.000 <=500.000
1.050UV <=72.000 <=240.000 >500.000
0.900UV

D-2012-140



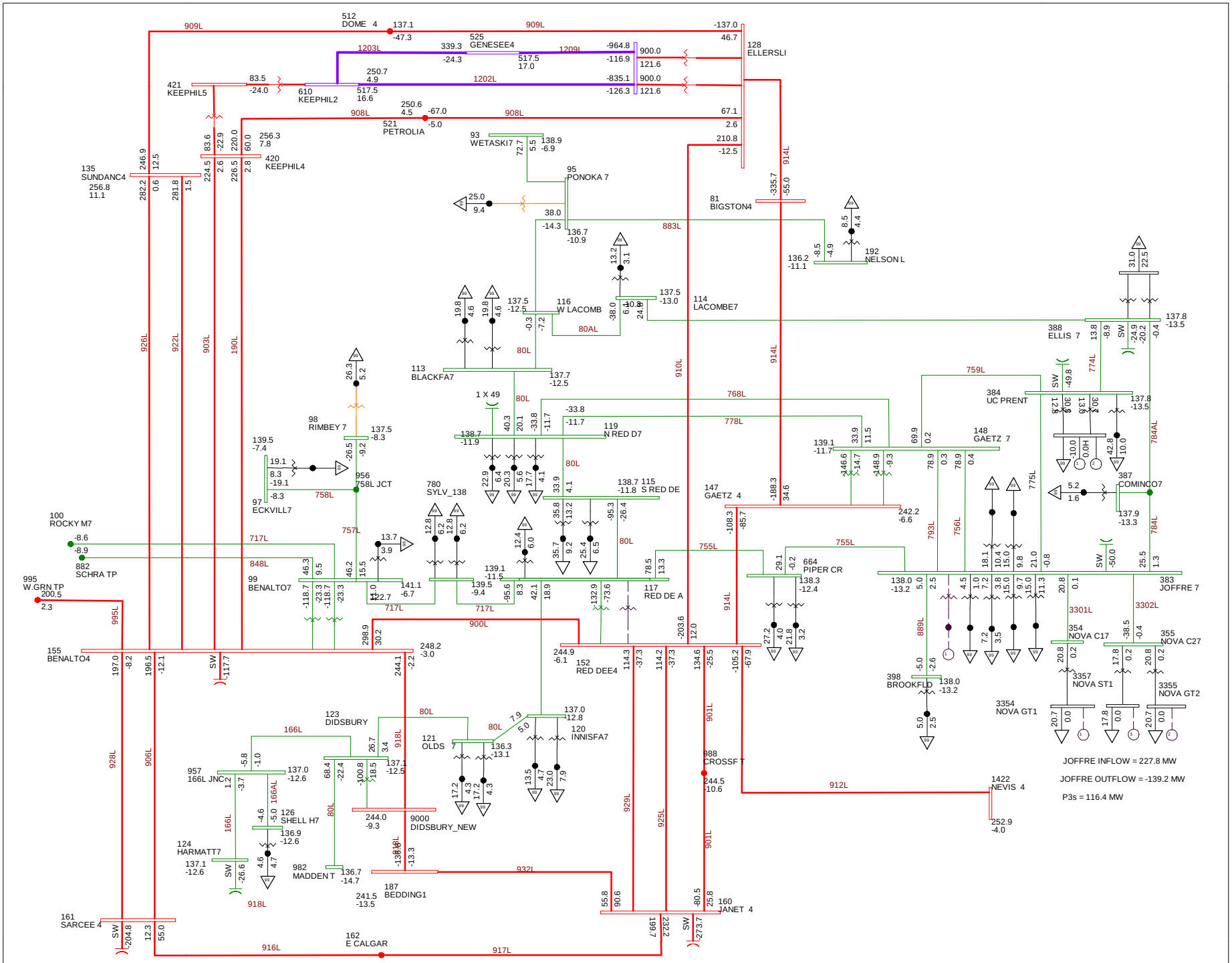
RED DEER REGION STUDY

2012 WINTER PEAK BASE CASE REVISION 6.5

FIG 2012-ALT1-LOAD-WP-20(NOVA OFF)
240/138KV TRANSFORMER AT GAETZ 87S OUTAGE
TUE, MAR 01 2011 15:52

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
100.0%RATE
KV: <=1.000 | <=34.500 | <=138.000 | <=500.000
1.050OV | <=72.000 | <=240.000 | >500.000
0.900UV

D-2012-141



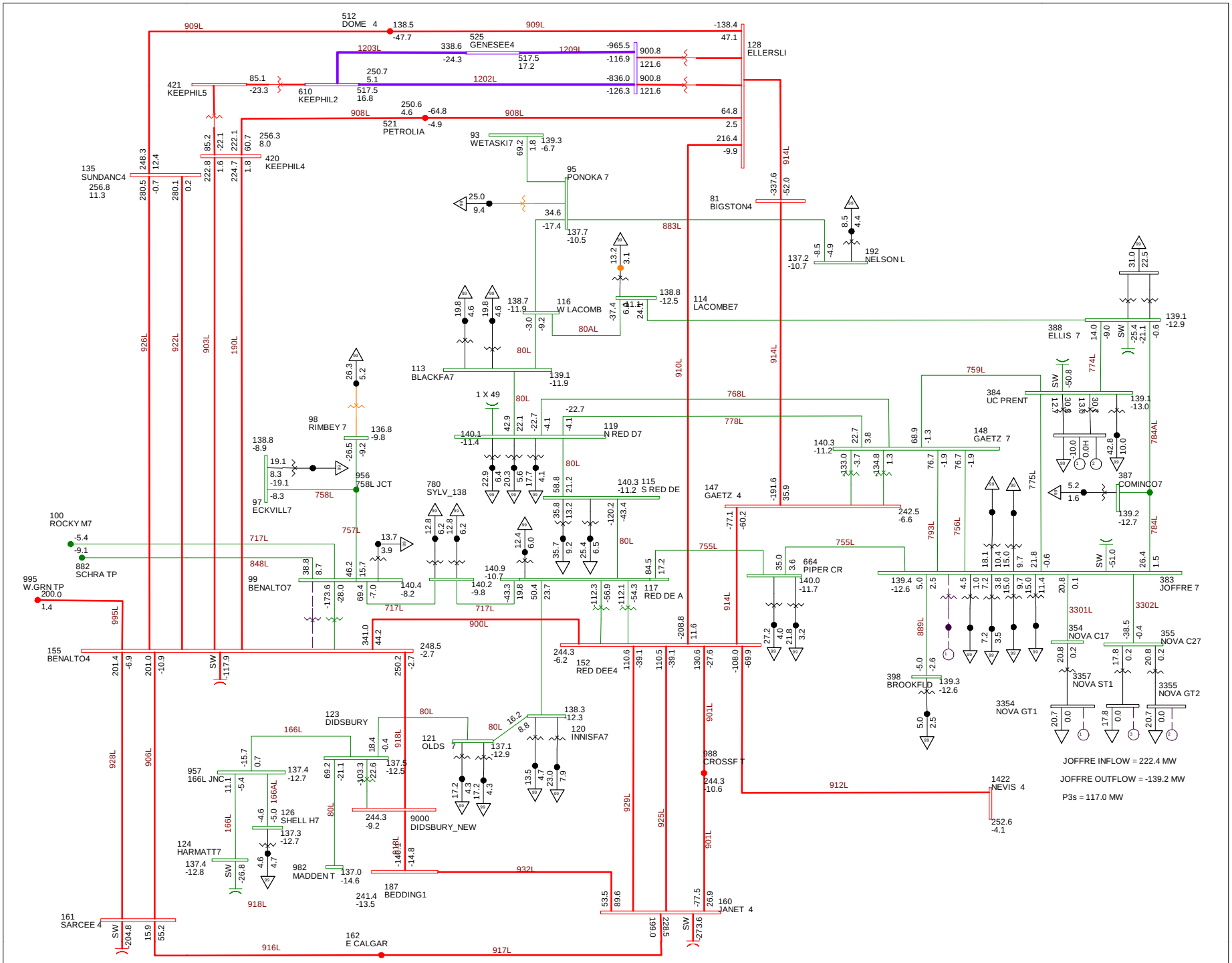
RED DEER REGION STUDY

2012 WINTER PEAK BASE CASE REVISION 6.5

FIG 2012-ALT1-LOAD-WP-21(NOVA OFF)
240/138KV TRANSFORMER AT RED DEER 63S OUTAGE
TUE, MAR 01 2011 15:52

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
100.0%RATE
KV: <=1.000 <=34.500 <=138.000 <=500.000
1.050OV <=72.000 <=240.000 >500.000
0.900UV

D-2012-142



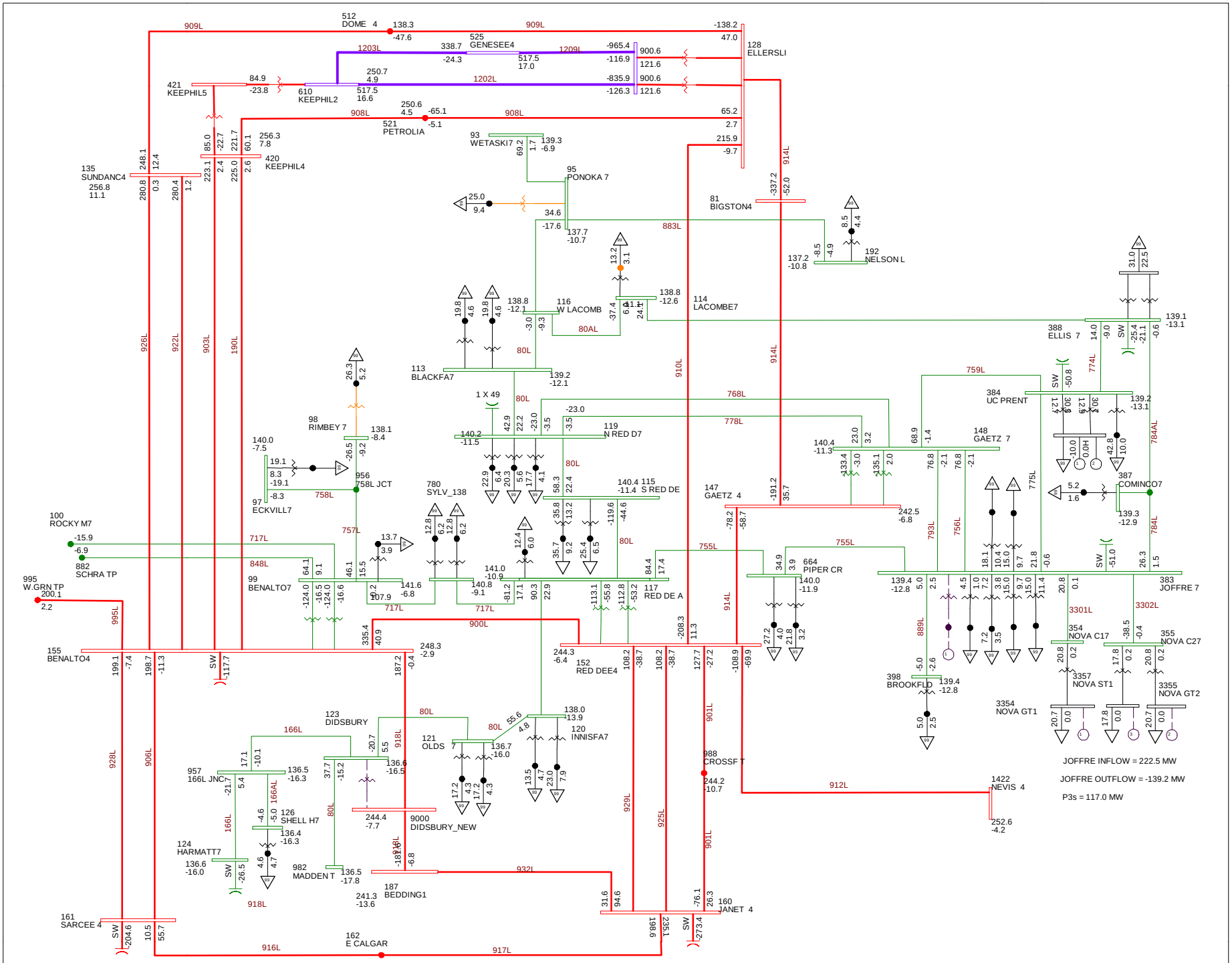
RED DEER REGION STUDY

2012 WINTER PEAK BASE CASE REVISION 6.5

FIG 2012-ALT1-LOAD-WP-22(NOVA OFF)
240/138KV TRANSFORMER AT BENALTO 17S OUTAGE
TUE, MAR 01 2011 15:52

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
100.0%RATE
KV: <=1.000 <=34.500 <=138.000 <=500.000
1.050OV <=72.000 <=240.000 >500.000
0.900UV

D-2012-143



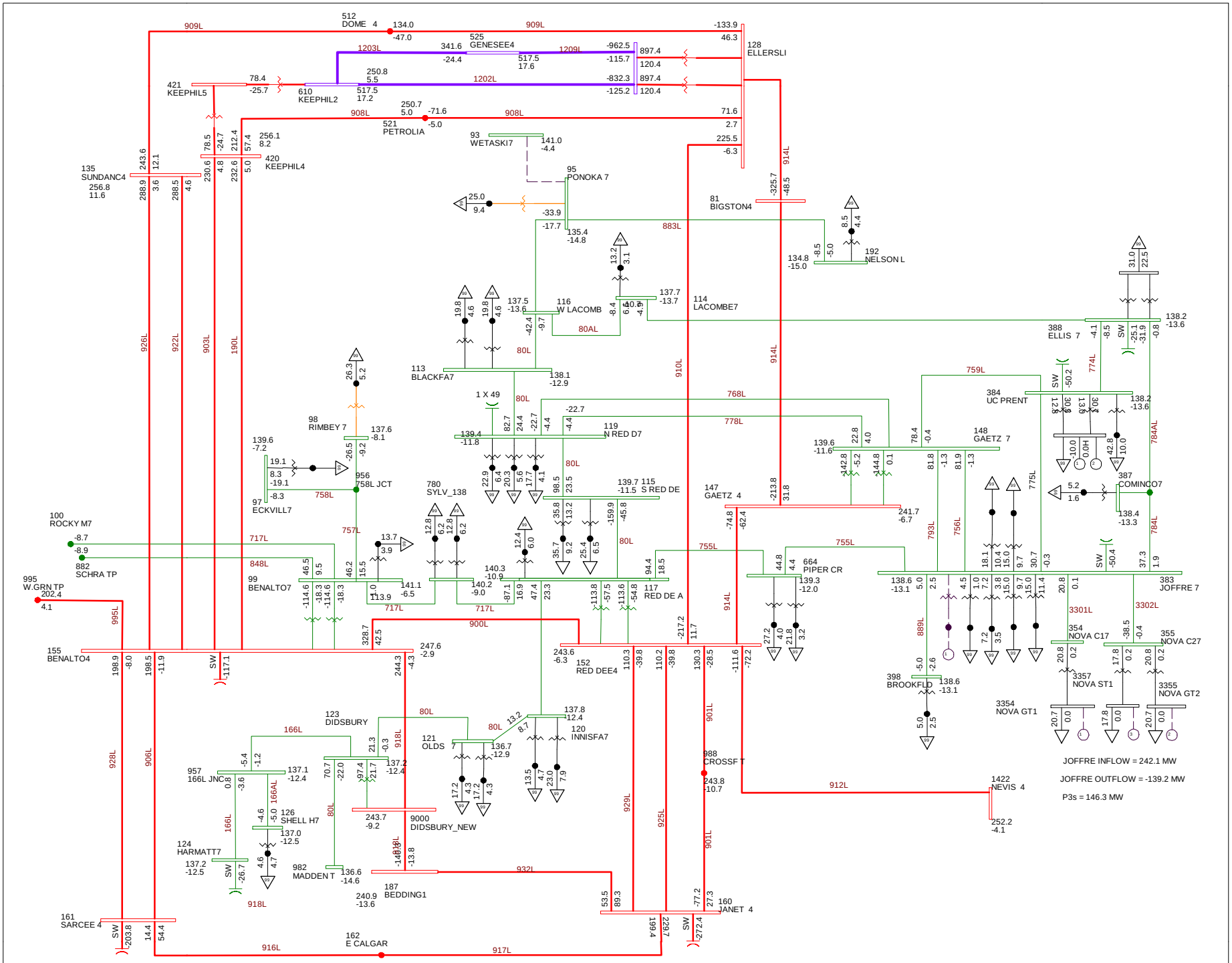
RED DEER REGION STUDY

2012 WINTER PEAK BASE CASE REVISION 6.5

FIG 2012-ALT1-LOAD-WP-23(NOVA OFF)
240/138KV TRANSFORMER AT DIDSBURY SUB. (152S) OUTAGE
TUE, MAR 01 2011 15:52

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
100.0%RATE
KV: <=1.000 <=34.500 <=138.000 <=500.000
1.050OV <=72.000 <=240.000 >500.000
0.900UV

D-2012-144



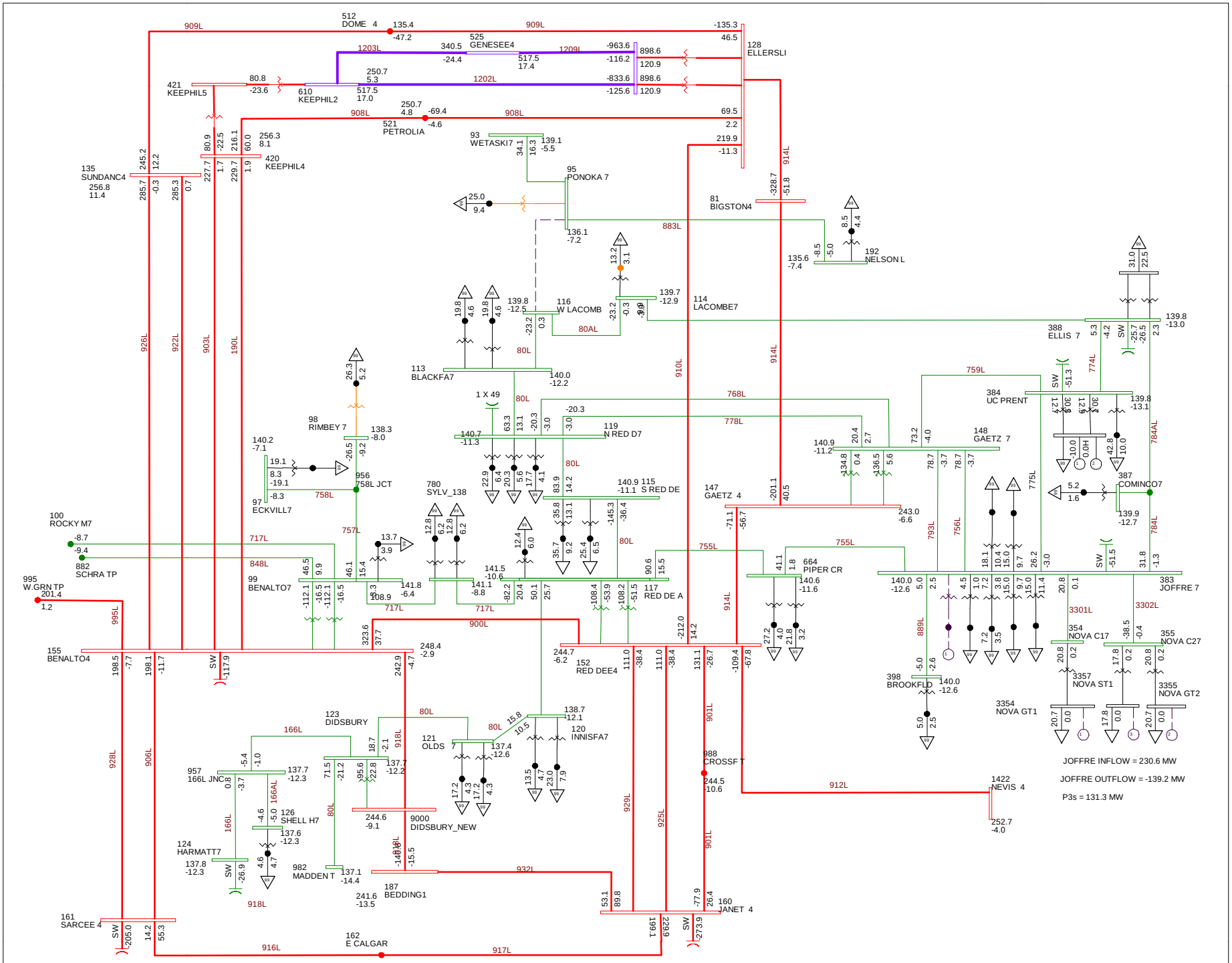
RED DEER REGION STUDY

2012 WINTER PEAK BASE CASE REVISION 6.5

FIG 2012-ALT1-LOAD-WP-24(NOVA OFF)
138 KV 716L (PONOKA 331S TO WETASKIWIN 40S) OUTAGE
TUE, MAR 01 2011 15:52

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
100.0%RATE
KV: <=1.000 <=34.500 <=138.000 <=500.000
1.050OV <=72.000 <=240.000 >500.000
0.900UV

D-2012-145



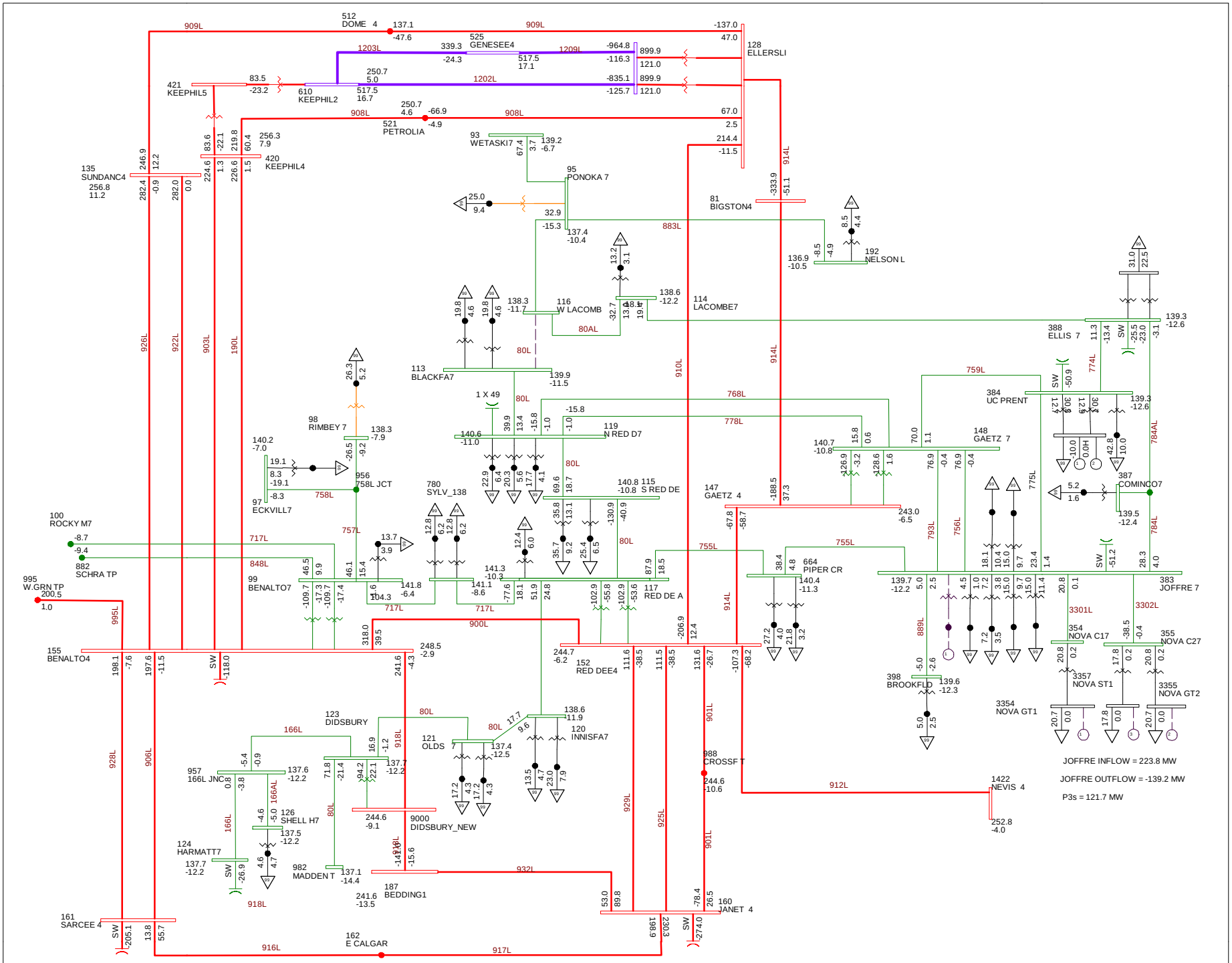
RED DEER REGION STUDY

2012 WINTER PEAK BASE CASE REVISION 6.5

FIG 2012-ALT1-LOAD-WP-25(NOVA OFF)
138 KV 80L (PONOKA 331S TO W. LACOMBE 958S) OUTAGE
TUE, MAR 01 2011 15:52

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
100.0%RATE
KV: <=1.000 <=34.500 <=138.000 <=500.000
1.050UV <=72.000 <=240.000 >500.000
0.900UV

D-2012-146



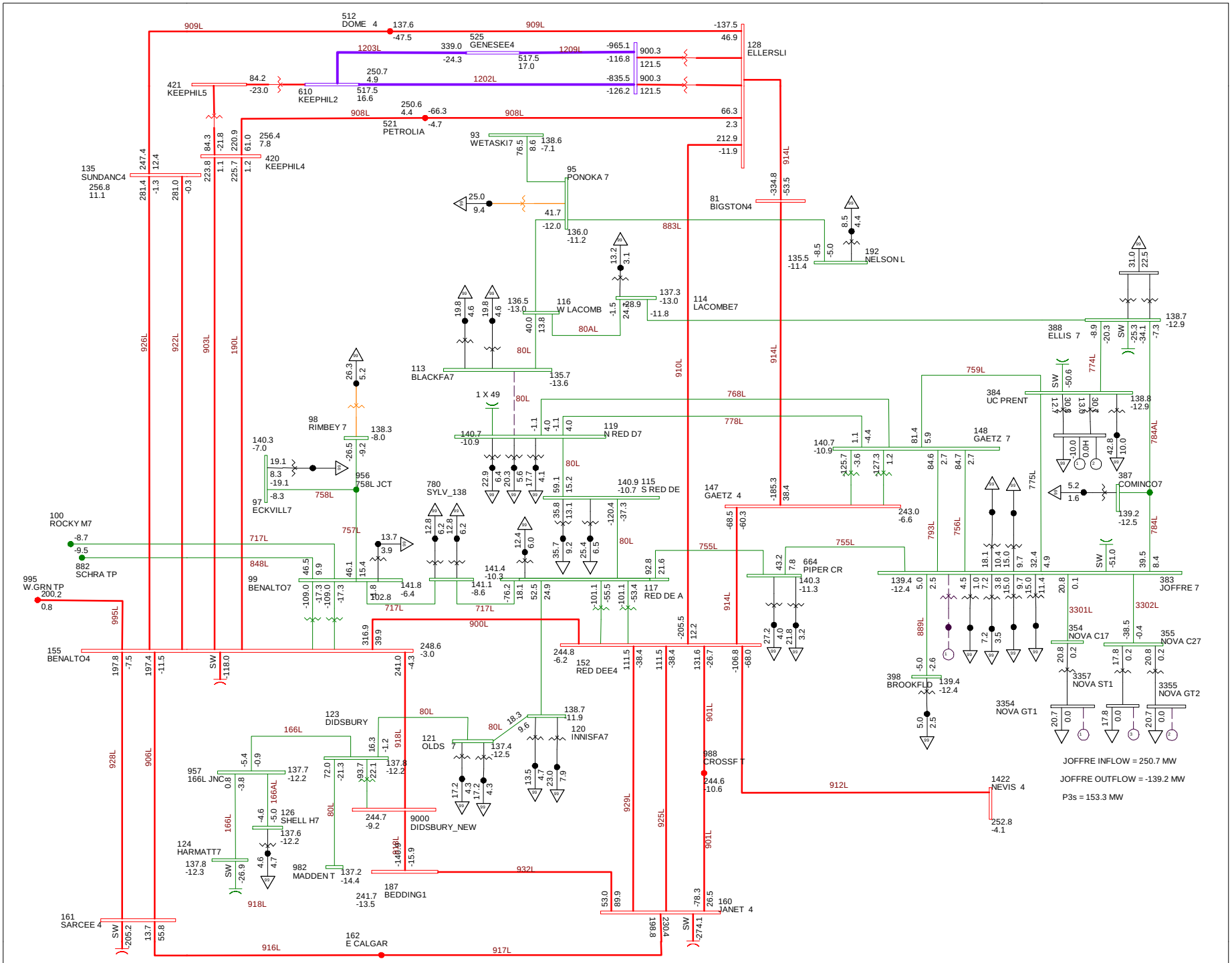
RED DEER REGION STUDY

2012 WINTER PEAK BASE CASE REVISION 6.5

FIG 2012-ALT1-LOAD-WP-26(NOVA OFF)
138 KV 80L (W. LACOMBE 958S TO BLACKFALDS 198S) OUTAGE
TUE, MAR 01 2011 15:52

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
100.0%RATE
KV: <=1.000 <=34.500 <=138.000 <=500.000
1.050OV <=72.000 <=240.000 >500.000
0.900UV

D-2012-147



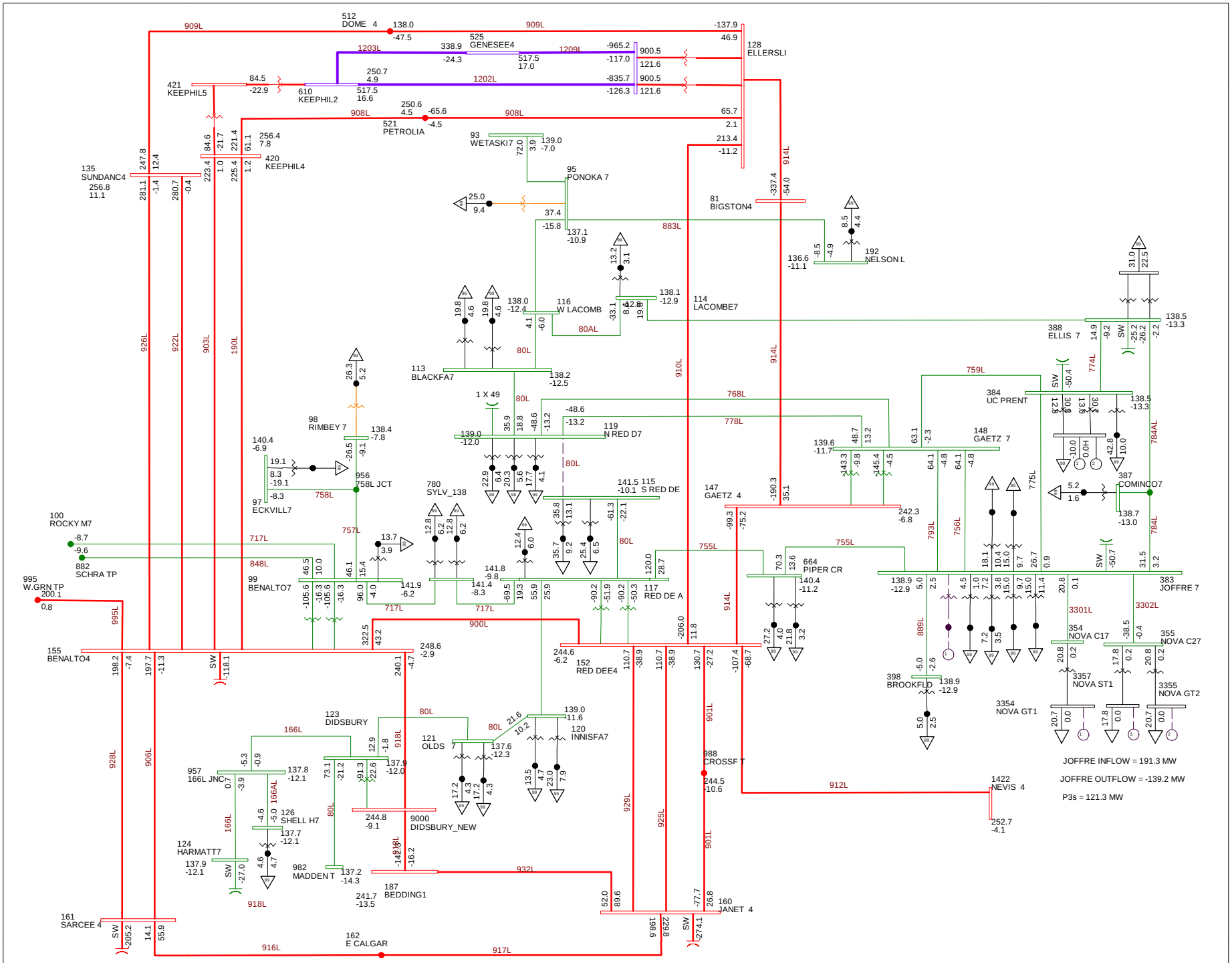
RED DEER REGION STUDY

2012 WINTER PEAK BASE CASE REVISION 6.5

FIG 2012-ALT1-LOAD-WP-27(NOVA OFF)
138 KV 80L (BLACKFALDS 198S TO N. RED DEER 217S) OUTAGE
TUE, MAR 01 2011 15:52

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
100.0%RATE
KV: <=1.000 <=34.500 <=138.000 <=500.000
1.050UV <=72.000 <=240.000 >500.000
0.900UV

D-2012-148



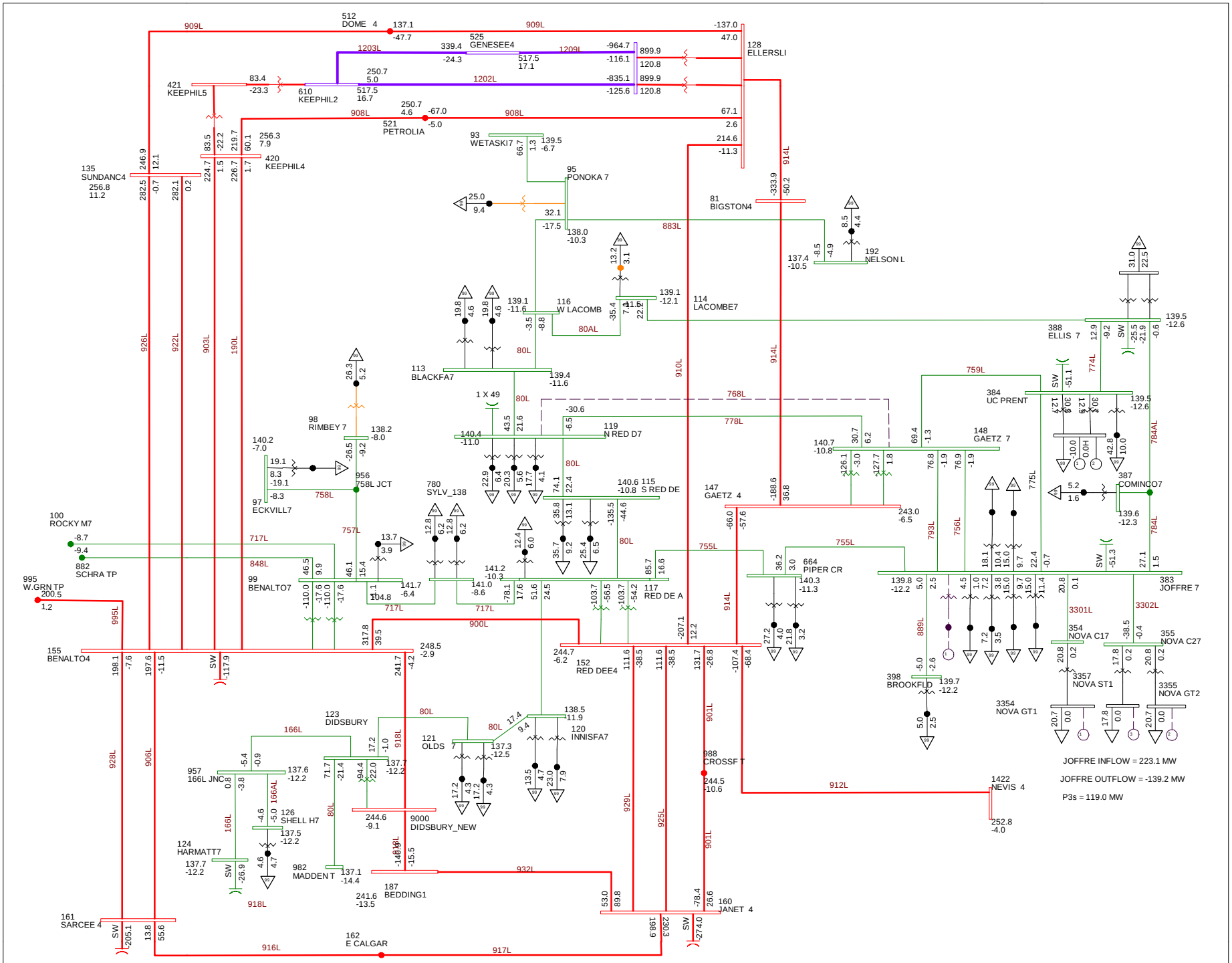
RED DEER REGION STUDY

2012 WINTER PEAK BASE CASE REVISION 6.5

FIG 2012-ALT1-LOAD-WP-28(NOVA OFF)
138 KV 80L (N. RED DEER 217S TO S. RED DEER 194S) OUTAGE
TUE, MAR 01 2011 15:52

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
100.0%RATE
KV: <=1.000 <=34.500 <=138.000 <=500.000
1.050OV <=72.000 <=240.000 >500.000
0.900UV

D-2012-149



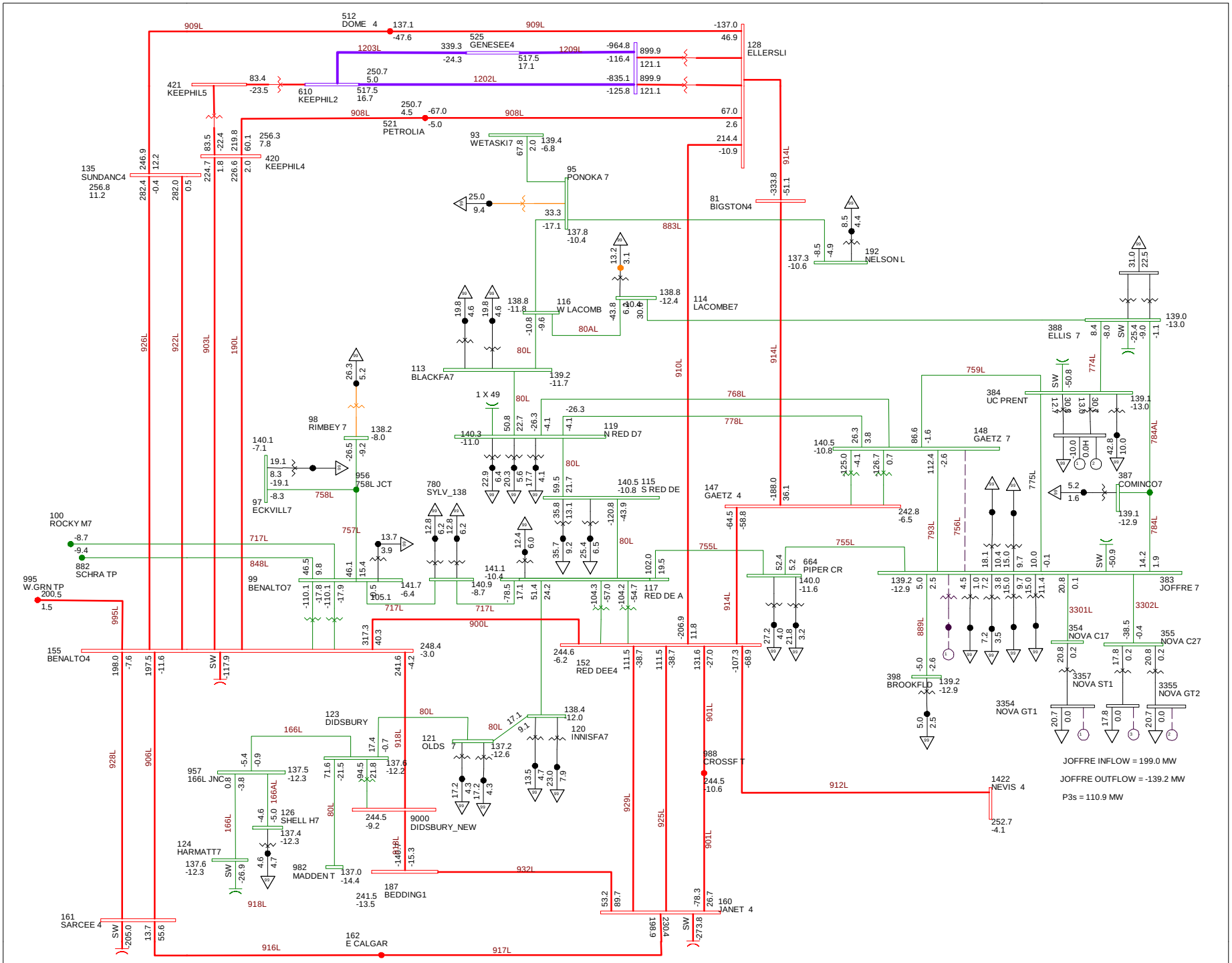
RED DEER REGION STUDY

2012 WINTER PEAK BASE CASE REVISION 6.5

FIG 2012-ALT1-LOAD-WP-29(NOVA OFF)
138 KV 768L (N. RED DEER 217S TO GAETZ 87S) OUTAGE
TUE, MAR 01 2011 15:52

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
100.0%RATE
KV: <=1.000 <=34.500 <=138.000 <=500.000
1.050OV <=72.000 <=240.000 >500.000
0.900UV

D-2012-150



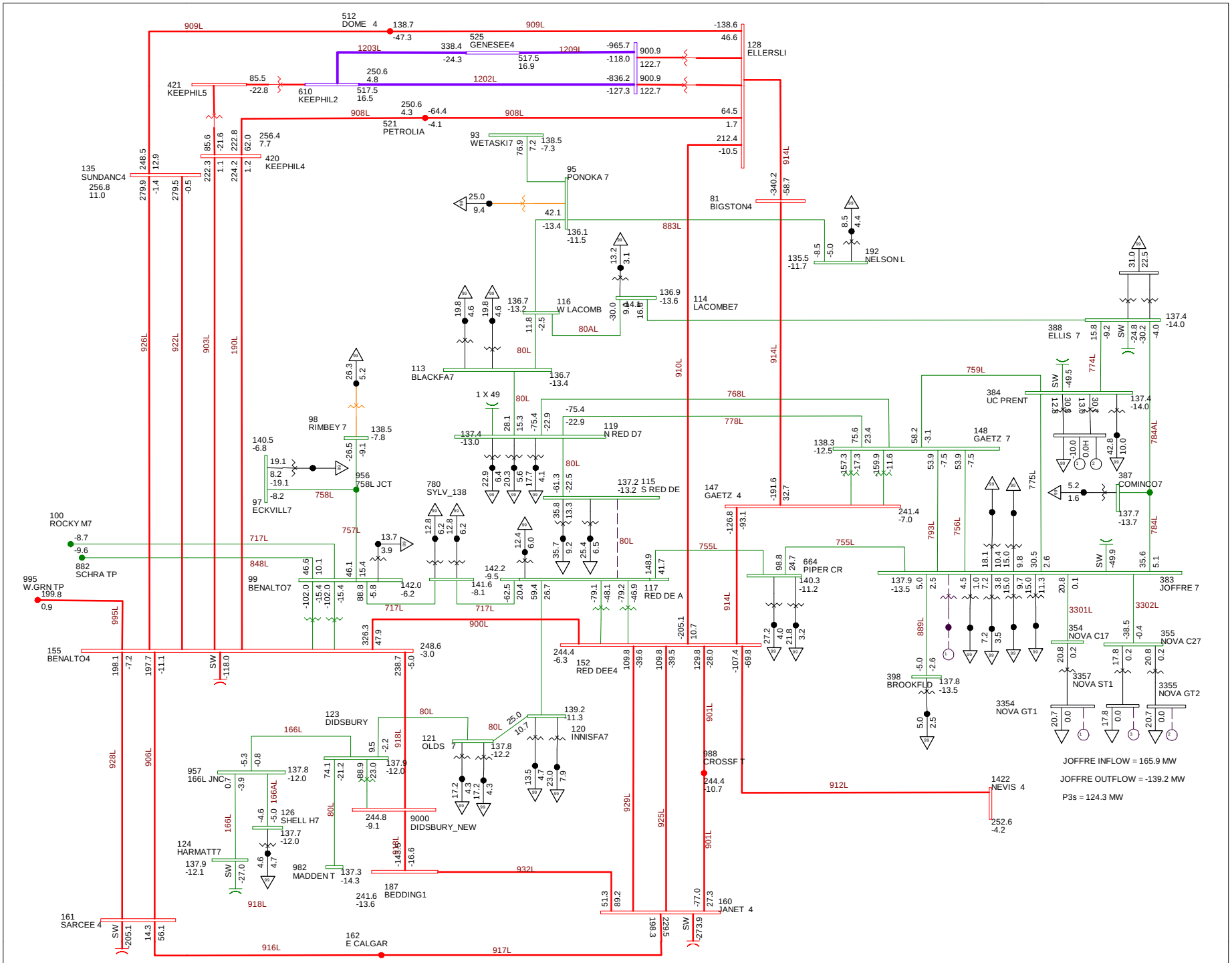
RED DEER REGION STUDY

2012 WINTER PEAK BASE CASE REVISION 6.5

FIG 2012-ALT1-LOAD-WP-30(NOVA OFF)
138 KV 793/756L (GAETZ 87S TO JOFFRE 535S) OUTAGE
TUE, MAR 01 2011 15:52

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
100.0%RATE
KV: <=1.000 <=34.500 <=138.000 <=500.000
1.050UV <=72.000 <=240.000 >500.000
0.900UV

D-2012-151



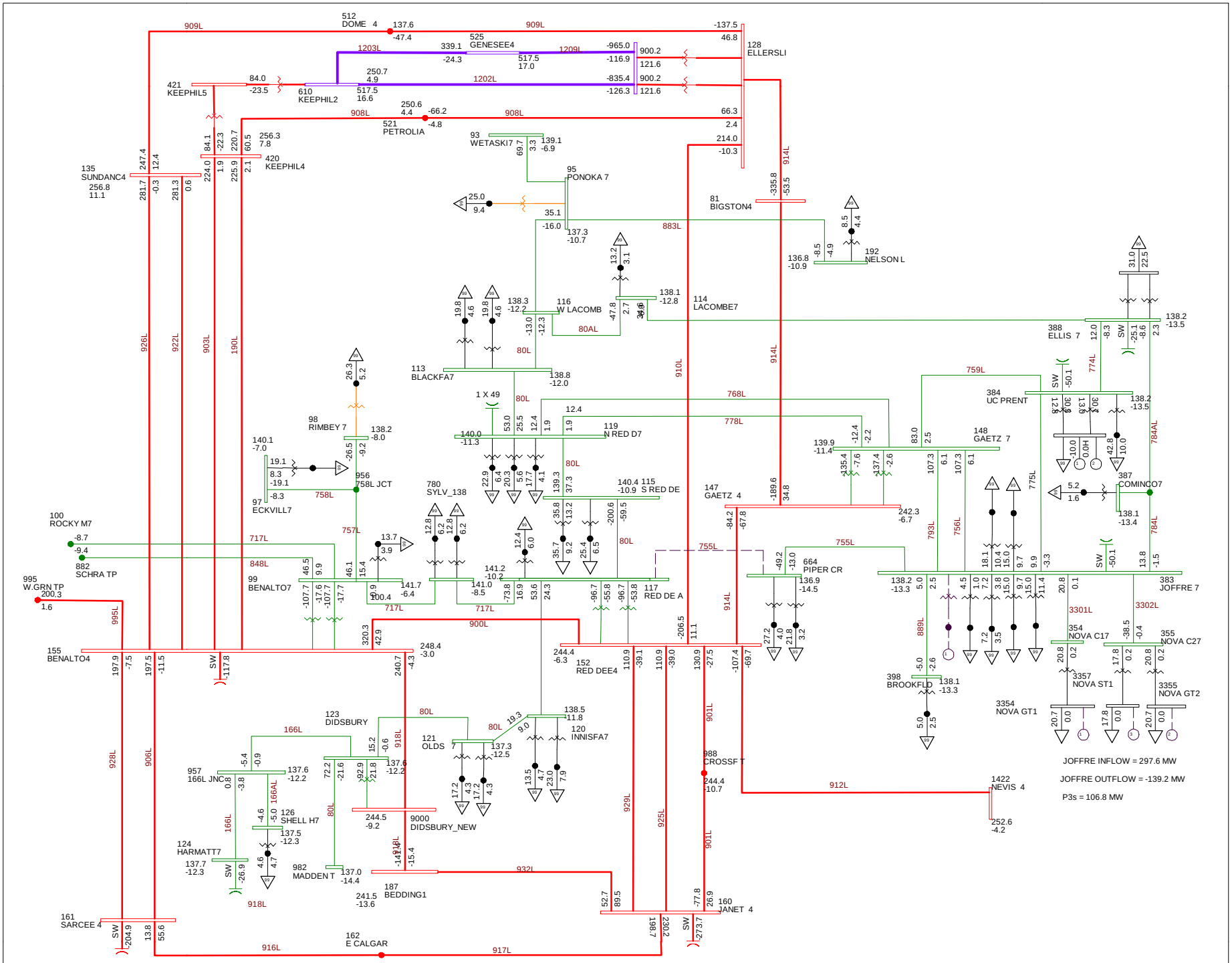
RED DEER REGION STUDY

2012 WINTER PEAK BASE CASE REVISION 6.5

FIG 2012-ALT1-LOAD-WP-31(NOVA OFF)
138 KV 80L (S. RED DEER 194S TO RED DEER 63S) OUTAGE
TUE, MAR 01 2011 15:52

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
100.0%RATE
KV: <=1.000 <=34.500 <=138.000 <=500.000
1.050OV <=72.000 <=240.000 >500.000
0.900UV

D-2012-152



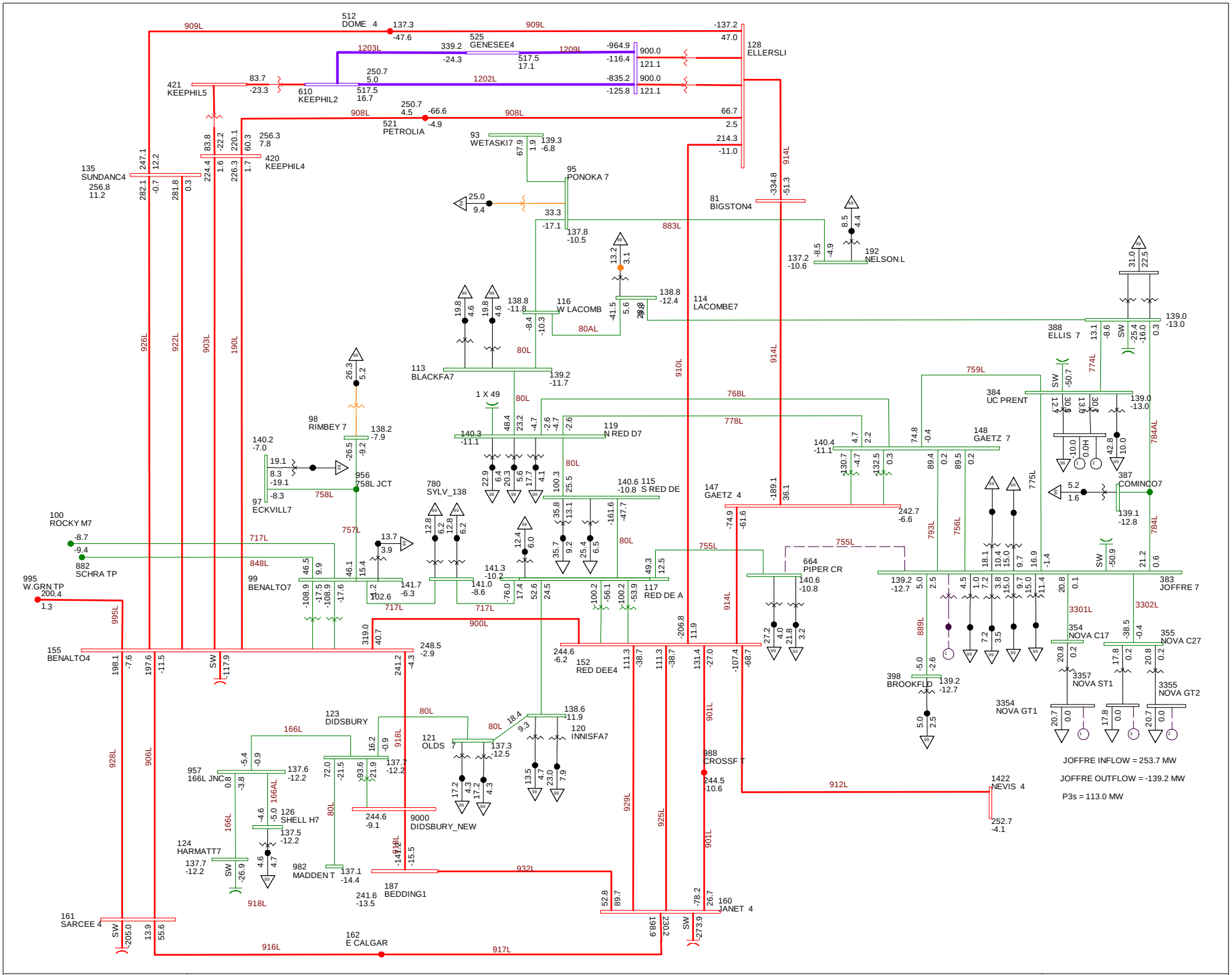
RED DEER REGION STUDY

2012 WINTER PEAK BASE CASE REVISION 6.5

FIG 2012-ALT1-LOAD-WP-32(NOVA OFF)
138 KV 755L (RED DEER 63S TO PIPER CREEK 247S) OUTAGE
TUE, MAR 01 2011 15:52

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
100.0%RATE
KV: <=1.000
1.050OV
0.900UV
<=34.500
<=72.000
<=138.000
<=240.000
<=500.000
>500.000

D-2012-153



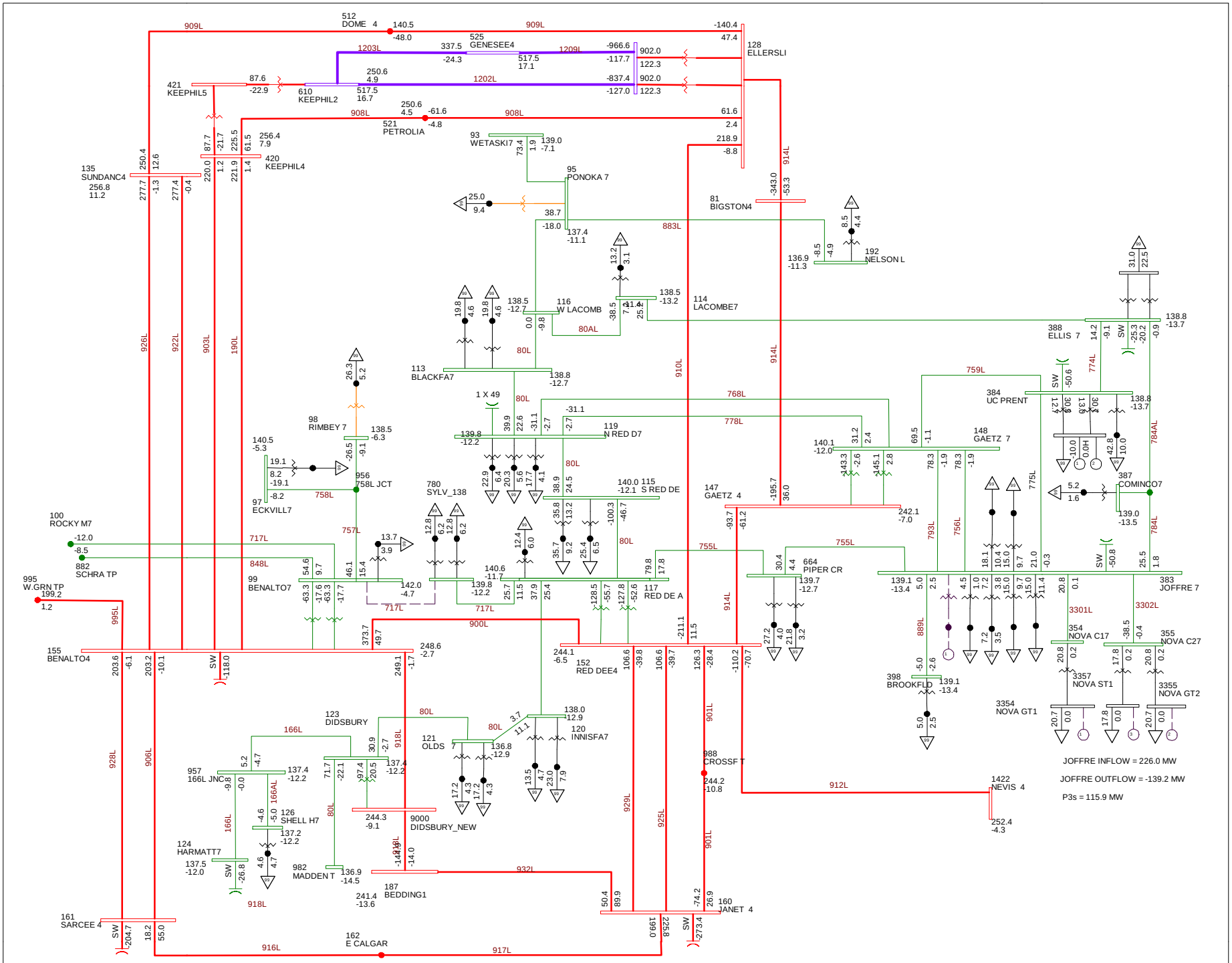
RED DEER REGION STUDY

2012 WINTER PEAK BASE CASE REVISION 6.5

FIG 2012-ALT1-LOAD-WP-33(NOVA OFF)
138 KV 755L (JOFFRE 535S TO PIPER CREEK 247S) OUTAGE
TUE, MAR 01 2011 15:52

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
100.0%RATE
KV: <=1.000 <=34.500 <=138.000 <=500.000
1.050OV <=72.000 <=240.000 >500.000
0.900UV

D-2012-154



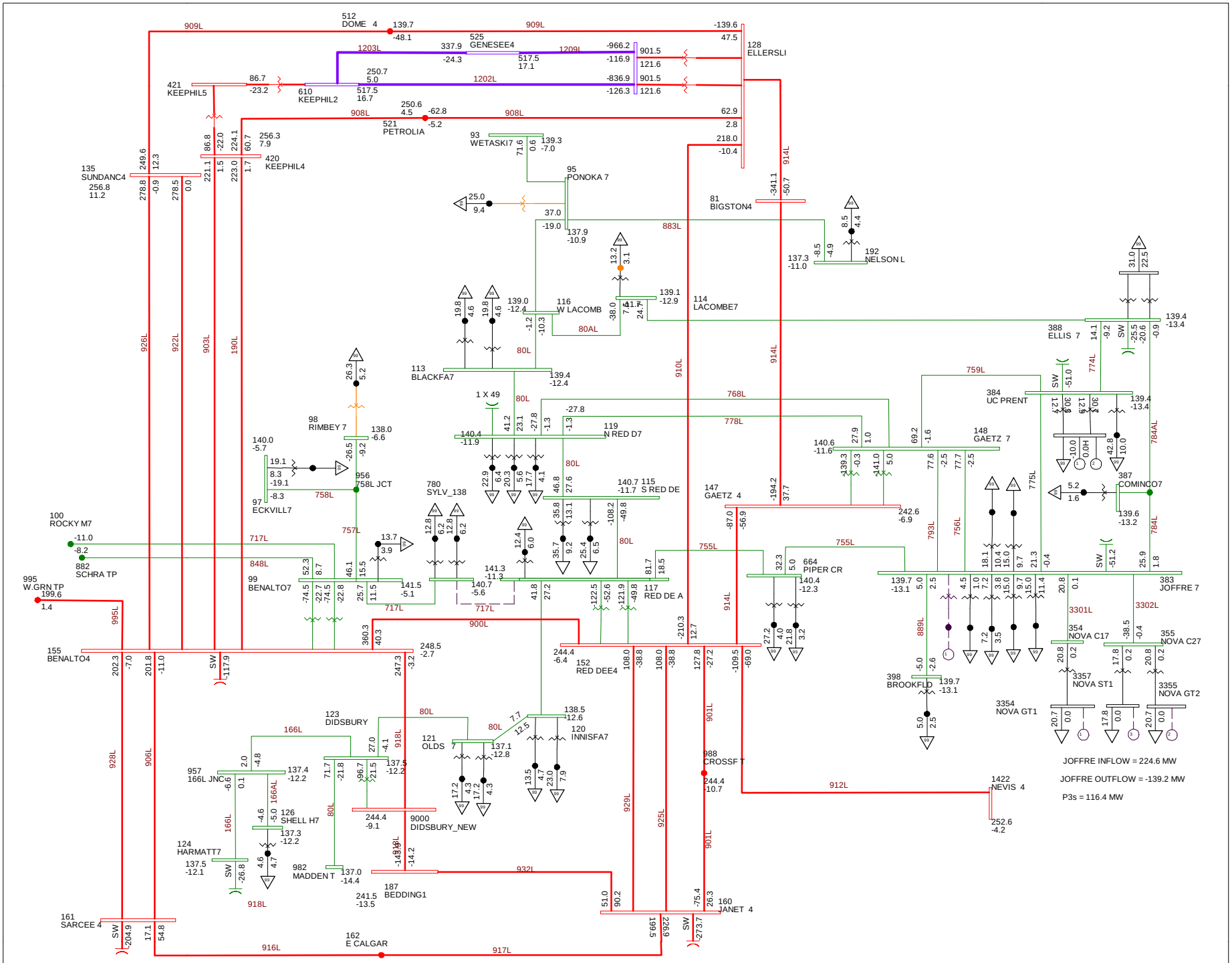
RED DEER REGION STUDY

2012 WINTER PEAK BASE CASE REVISION 6.5

FIG 2012-ALT1-LOAD-WP-34(NOVA OFF)
138 KV 717L (BENALTO 17S TO SYLVAN LAKE 580S) OUTAGE
TUE, MAR 01 2011 15:52

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
100.0%RATE
KV: <=1.000 <=34.500 <=138.000 <=500.000
1.050UV <=72.000 <=240.000 >500.000
0.900UV

D-2012-155



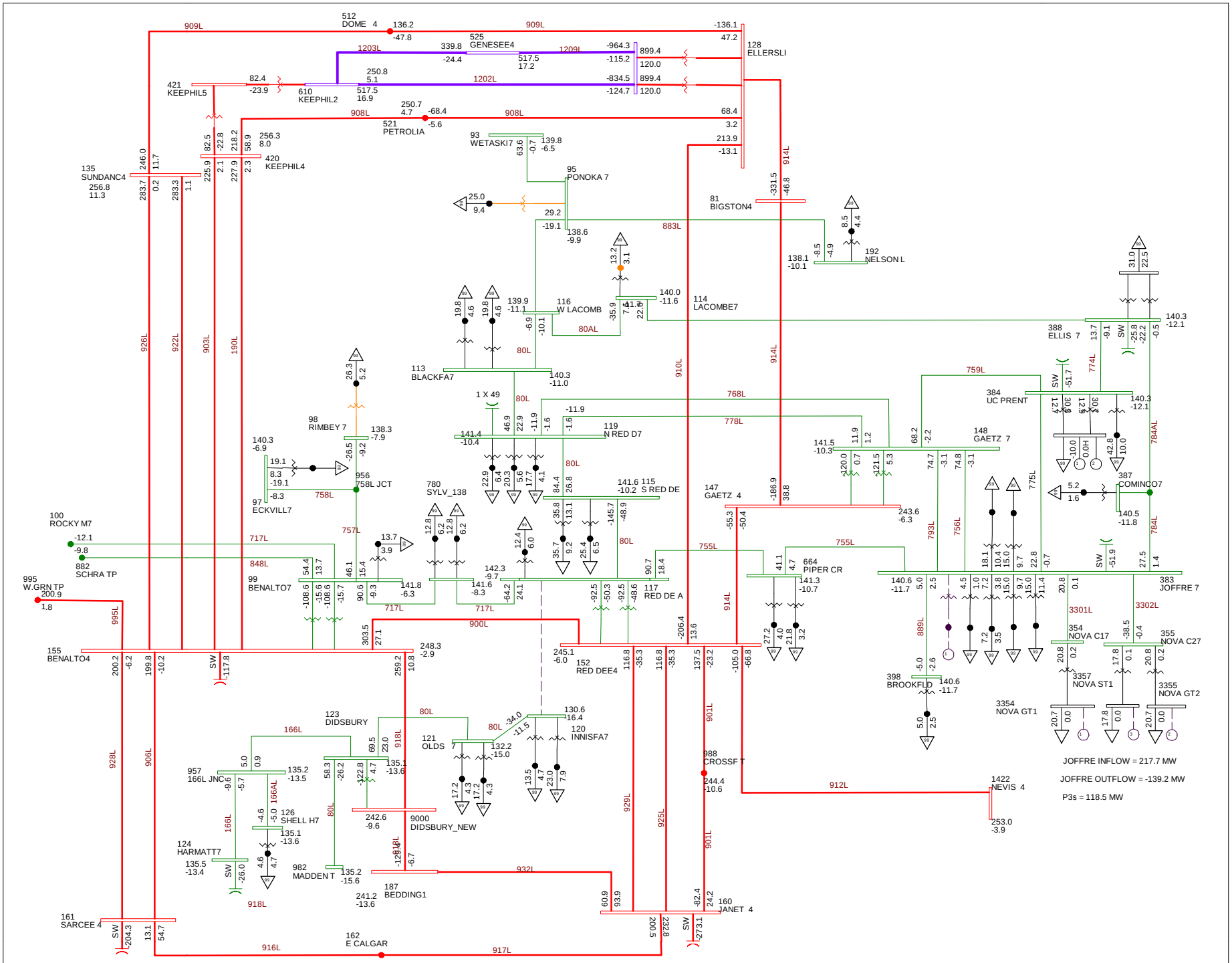
RED DEER REGION STUDY

2012 WINTER PEAK BASE CASE REVISION 6.5

FIG 2012-ALT1-LOAD-WP-35(NOVA OFF)
138 KV 717L (RED DEER 63S TO SYLVAN LAKE 580S) OUTAGE
TUE, MAR 01 2011 15:52

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
100.0%RATE
KV: <=1.000 <=34.500 <=138.000 <=500.000
1.050UV <=72.000 <=240.000 >500.000
0.900UV

D-2012-156



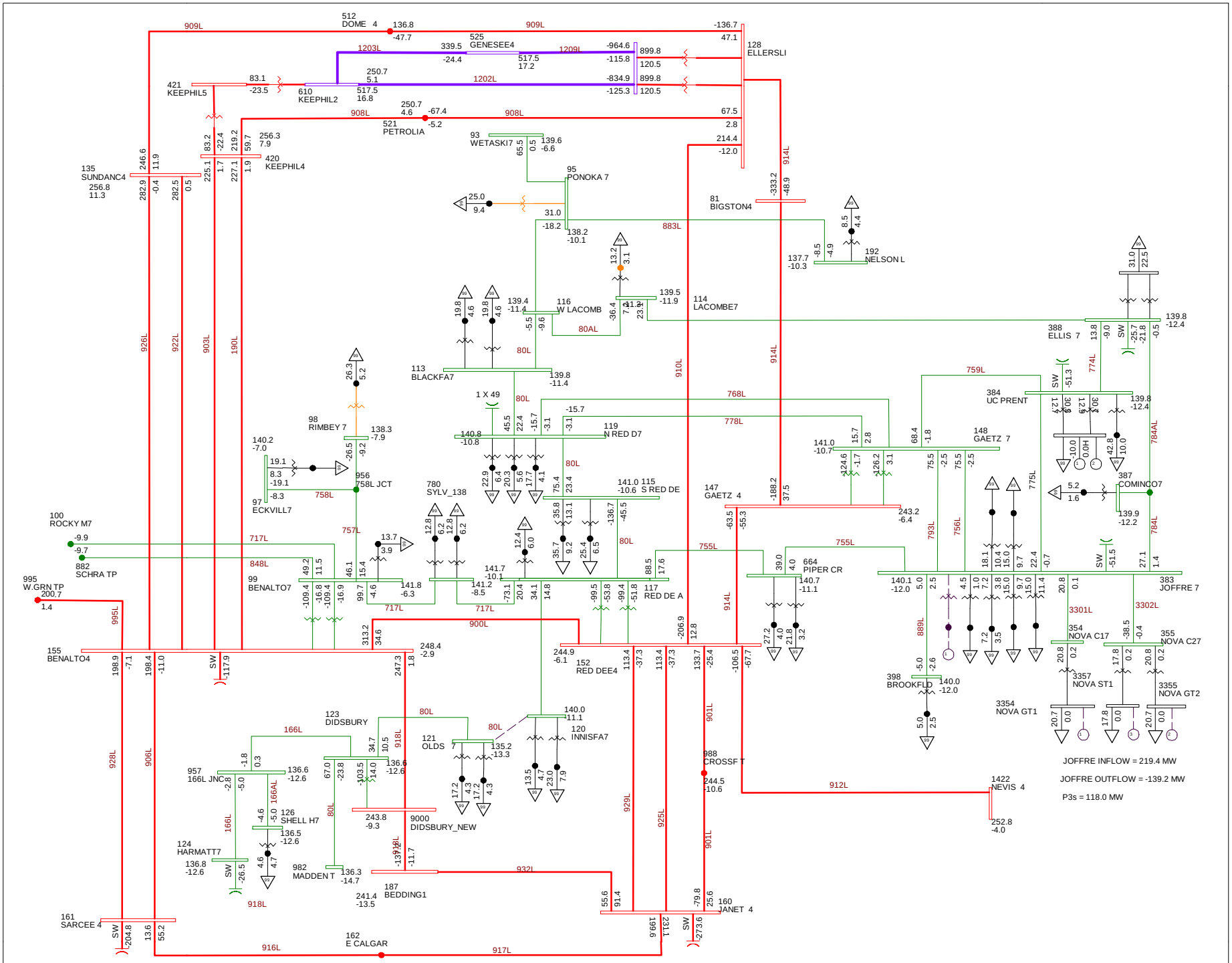
RED DEER REGION STUDY

2012 WINTER PEAK BASE CASE REVISION 6.5

FIG 2012-ALT1-LOAD-WP-36(NOVA OFF)
138 KV 80L (RED DEER 63S TO INNISFAIL 214S) OUTAGE
TUE, MAR 01 2011 15:52

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
100.0%RATE
KV: <=1.000 1.050UV 0.900UV
<=34.500 <=72.000
<=138.000 <=240.000
<=500.000 >500.000

D-2012-157



RED DEER REGION STUDY

2012 WINTER PEAK BASE CASE REVISION 6.5

FIG 2012-ALT1-LOAD-WP-37(NOVA OFF)
138 KV 80L (INNISFAIL 214S TO OLDS 55S) OUTAGE
TUE, MAR 01 2011 15:52

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
100.0%RATEB
KV: <=1.000 <=34.500 <=138.000 <=500.000
1.050UV <=72.000 <=240.000 >500.000
0.900UV

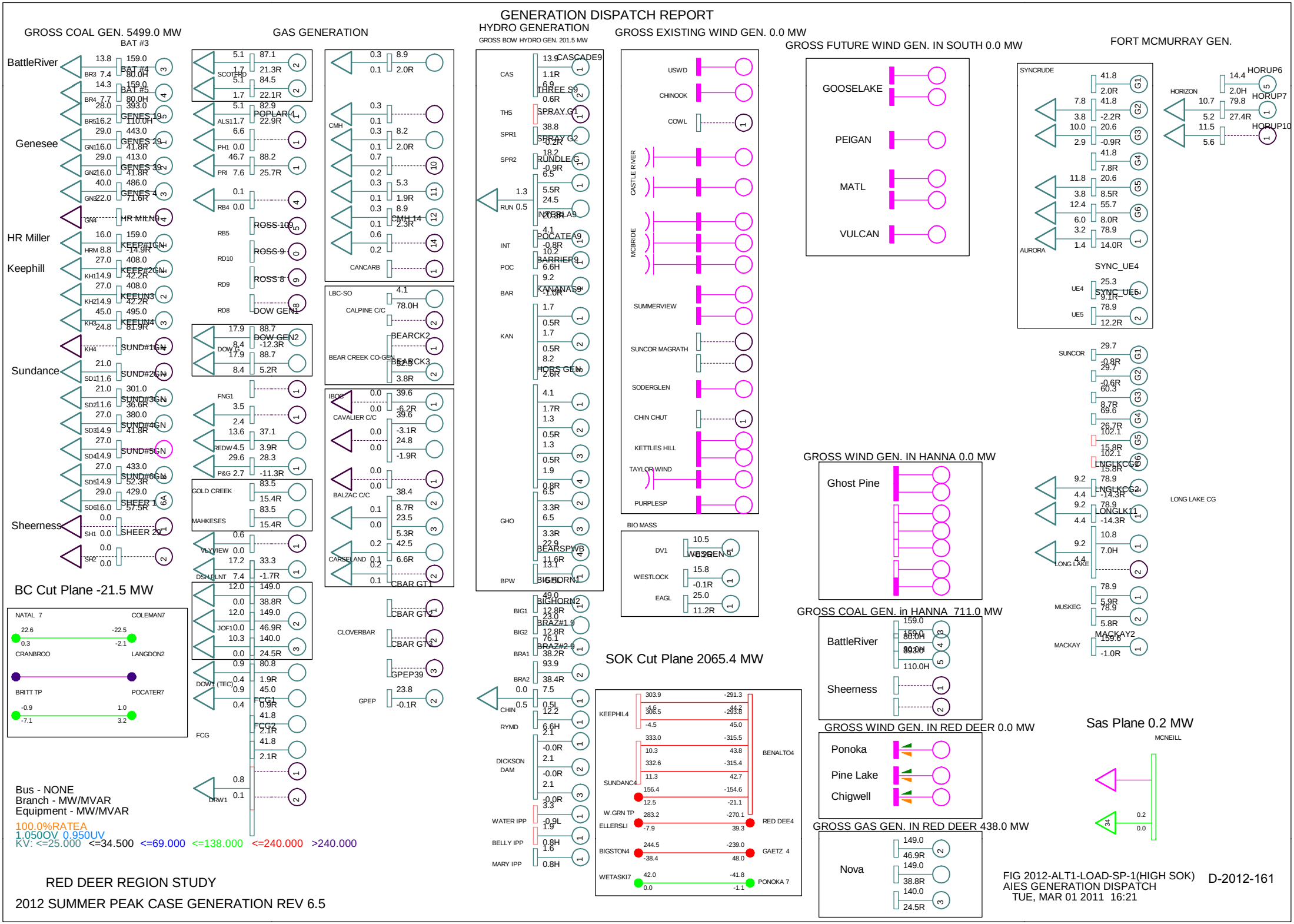
D-2012-158

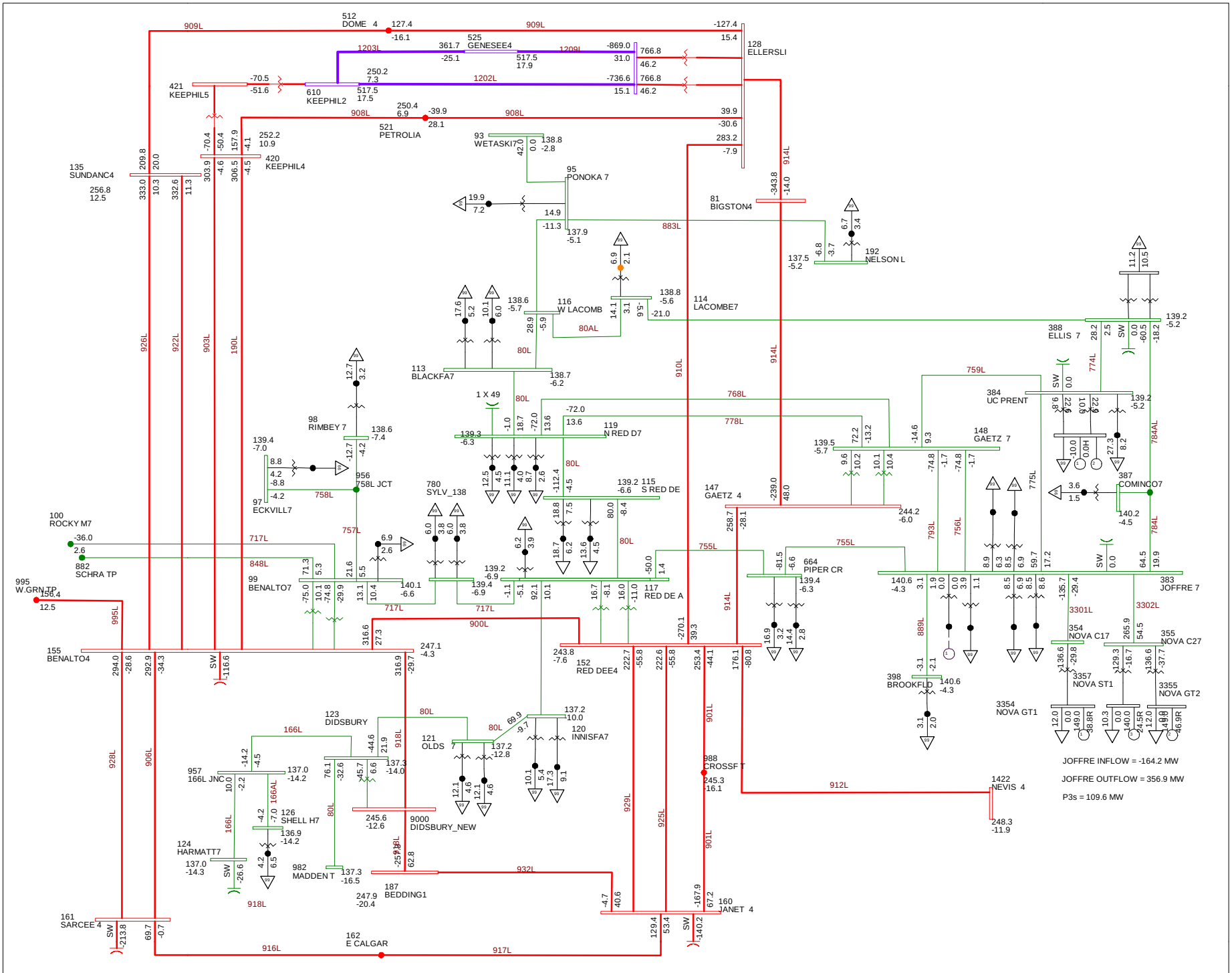
Table D-2012-3: Summary of 2012 Load Adequacy Power Flow Analysis - Alternative 1 (SP with High SOK Plane)

Figure No.	Contingency	Overloaded Element	Percent Overload	Other System Performance Concerns
Summer Peak				
Fig 2012-Alt1-Load-SP-1(High SOK)	AIES Generation Dispatch	N/A	N/A	N/A
Fig 2012-Alt1-Load-SP-2(High SOK)	All Elements in Service	None	N/A	None
Fig 2012-Alt1-Load-SP-3(High SOK)	500kV 1202L (Ellerslie 89S to Keephills 320P)	None	N/A	None
Fig 2012-Alt1-Load-SP-4(High SOK)	500kV 1209L (Ellerslie 89S to Genesee E330P)	None	N/A	None
Fig 2012-Alt1-Load-SP-5(High SOK)	500kV 1203L (Genesee E330P to Keephills 320P)	None	N/A	None
Fig 2012-Alt1-Load-SP-6(High SOK)	240kV 914L (Ellerslie 89S to Bigstone 86S)	None	N/A	None
Fig 2012-Alt1-Load-SP-7(High SOK)	240kV 914L (Bigstone 86S to Gaetz 87S)	None	N/A	None
Fig 2012-Alt1-Load-SP-8(High SOK)	240kV 910L (Ellerslie 89S to Red Deer 63S)	None	N/A	None
Fig 2012-Alt1-Load-SP-9(High SOK)	240kV 914L (Gaetz 87S to Red Deer 63S)	None	N/A	None
Fig 2012-Alt1-Load-SP-10(High SOK)	240kV 900L (Red Deer 63S to Benalto 17S)	None	N/A	None
Fig 2012-Alt1-Load-SP-11(High SOK)	240kV 929/925L (Red Deer 63S to Janet 74S)	None	N/A	None
Fig 2012-Alt1-Load-SP-12(High SOK)	240kV 901L (Red Deer 63S to Crossfield 64S)	None	N/A	None
Fig 2012-Alt1-Load-SP-13(High SOK)	240kV 912L (Red Deer 63S to Nevis 766S)	None	N/A	None
Fig 2012-Alt1-Load-SP-14(High SOK)	240 kV 926/922L (Sundance 310P to Benalto 17S)	None	N/A	None
Fig 2012-Alt1-Load-SP-15(High SOK)	240kV 190/903L (Keephills 320P to Benalto 17S)	None	N/A	None
Fig 2012-Alt1-Load-SP-16(High SOK)	240 kV 995L (Amoco Willesden Green 68S to Benalto 17S)	None	N/A	None
Fig 2012-Alt1-Load-SP-17(High SOK)	240 kV 906/928L (Benalto 17S to Sarcee 42S)	None	N/A	None
Fig 2012-Alt1-Load-SP-18(High SOK)	240 kV 918L (Benalto 17S to Didsbury Sub. (152S)	None	N/A	None
Fig 2012-Alt1-Load-SP-19(High SOK)	240 kV 918L (Didsbury Sub. (152S) to Beddington 162S)	None	N/A	None
Fig 2012-Alt1-Load-SP-20(High SOK)	240/138kV Transformer at Gaetz 87S	None	N/A	None
Fig 2012-Alt1-Load-SP-21(High SOK)	240/138kV Transformer at Red Deer 63S	None	N/A	None
Fig 2012-Alt1-Load-SP-22(High SOK)	240/138kV Transformer at Benalto 17S	None	N/A	None
Fig 2012-Alt1-Load-SP-23(High SOK)	240/138kV Transformer at Didsbury Sub. (152S)	None	N/A	None
Fig 2012-Alt1-Load-SP-24(High SOK)	138 kV 716L (Ponoka 331S to Wetaskiwin 40S)	None	N/A	None
Fig 2012-Alt1-Load-SP-25(High SOK)	138 kV 80L (Ponoka 331S to W. Lacombe 958S)	None	N/A	None

Figure No.	Contingency	Overloaded Element	Percent Overload	Other System Performance Concerns
Fig 2012-Alt1-Load-SP-26(High SOK)	138 kV 80L (W. Lacombe 958S to Blackfalds 198S)	None	N/A	None
Fig 2012-Alt1-Load-SP-27(High SOK)	138 kV 80L (Blackfalds 198S to N. Red Deer 217S)	None	N/A	None
Fig 2012-Alt1-Load-SP-28(High SOK)	138 kV 80L (N. Red Deer 217S to S. Red Deer 194S)	None	N/A	None
Fig 2012-Alt1-Load-SP-29(High SOK)	138 kV 768L (N. Red Deer 217S to Gaetz 87S)	None	N/A	None
Fig 2012-Alt1-Load-SP-30(High SOK)	138 kV 793/756L (Gaetz 87S to Joffre 535S)	None	N/A	None
Fig 2012-Alt1-Load-SP-31(High SOK)	138 kV 80L (S. Red Deer 194S to Red Deer 63S)	None	N/A	None
Fig 2012-Alt1-Load-SP-32(High SOK)	138 kV 755L (Red Deer 63S to Piper Creek 247S)	None	N/A	None
Fig 2012-Alt1-Load-SP-33(High SOK)	138 kV 755L (Joffre 535S to Piper Creek 247S)	None	N/A	None
Fig 2012-Alt1-Load-SP-34(High SOK)	138 kV 717L (Benalto 17S to Sylvan Lake 580S)	None	N/A	None
Fig 2012-Alt1-Load-SP-35(High SOK)	138 kV 717L (Red Deer 63S to Sylvan Lake 580S)	None	N/A	None
Fig 2012-Alt1-Load-SP-36(High SOK)	138 kV 80L (Red Deer 63S to Innisfail 214S)	None	N/A	None
Fig 2012-Alt1-Load-SP-37(High SOK)	138 kV 80L (Innisfail 214S To Olds 55S)	None	N/A	None

GENERATION DISPATCH REPORT





RED DEER REGION STUDY
2012 S3_SOK_PK (2012 SUMMER PEAK CASE)

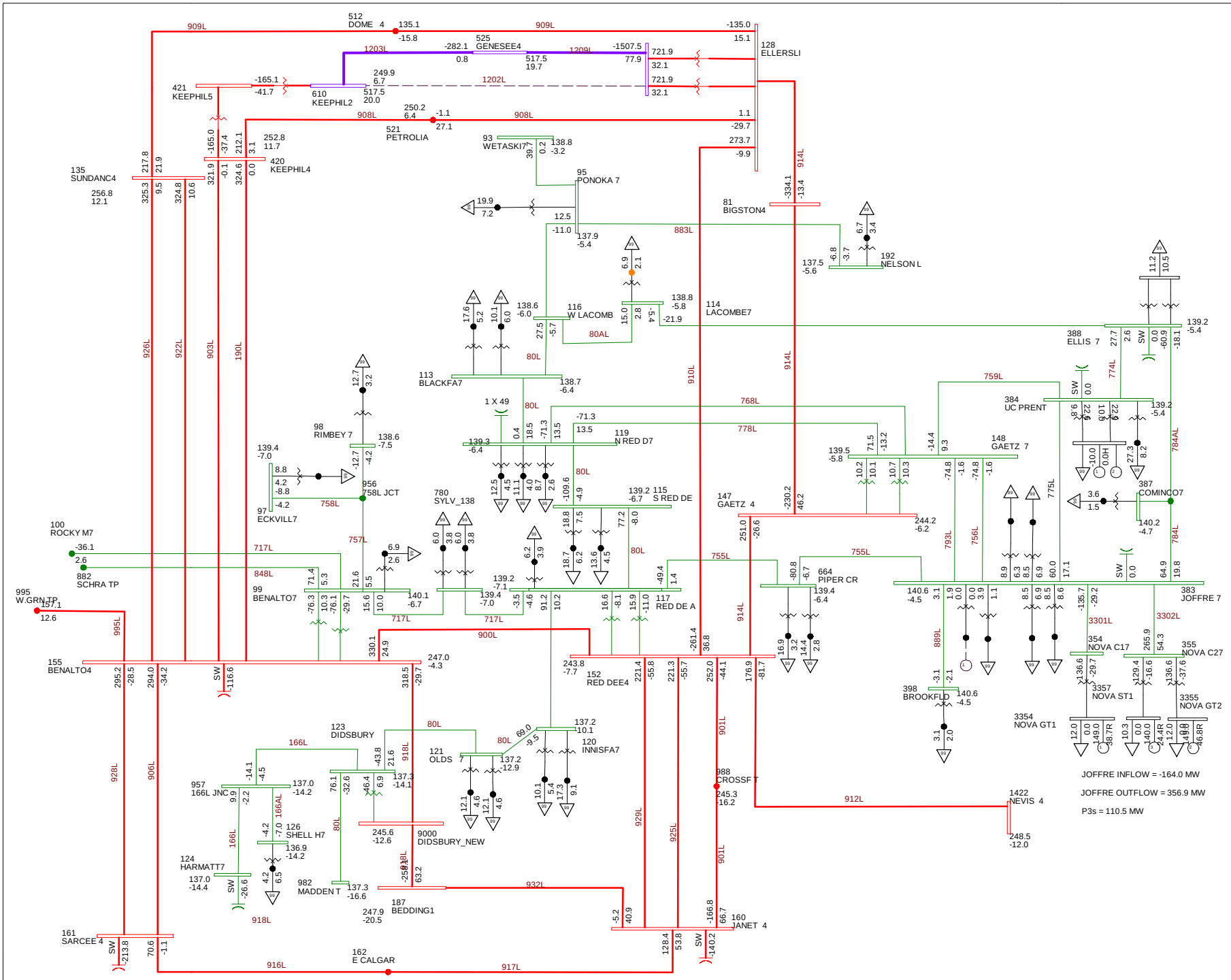
FIG 2012-ALT1-LOAD-SP-2(HIGH SOK)
ALL ELEMENTS IN SERVICE
TUE, MAR 01 2011 16:21

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR

100.0%RATEA

1.080ON 0.900UV <=72.000 <=138.000 <=500.000 >500.000
KV: <=1.000 <=34.500 <=240.000

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RED DEER REGION STUDY
2012 S3_SOK_PK (2012 SUMMER PEAK CASE)

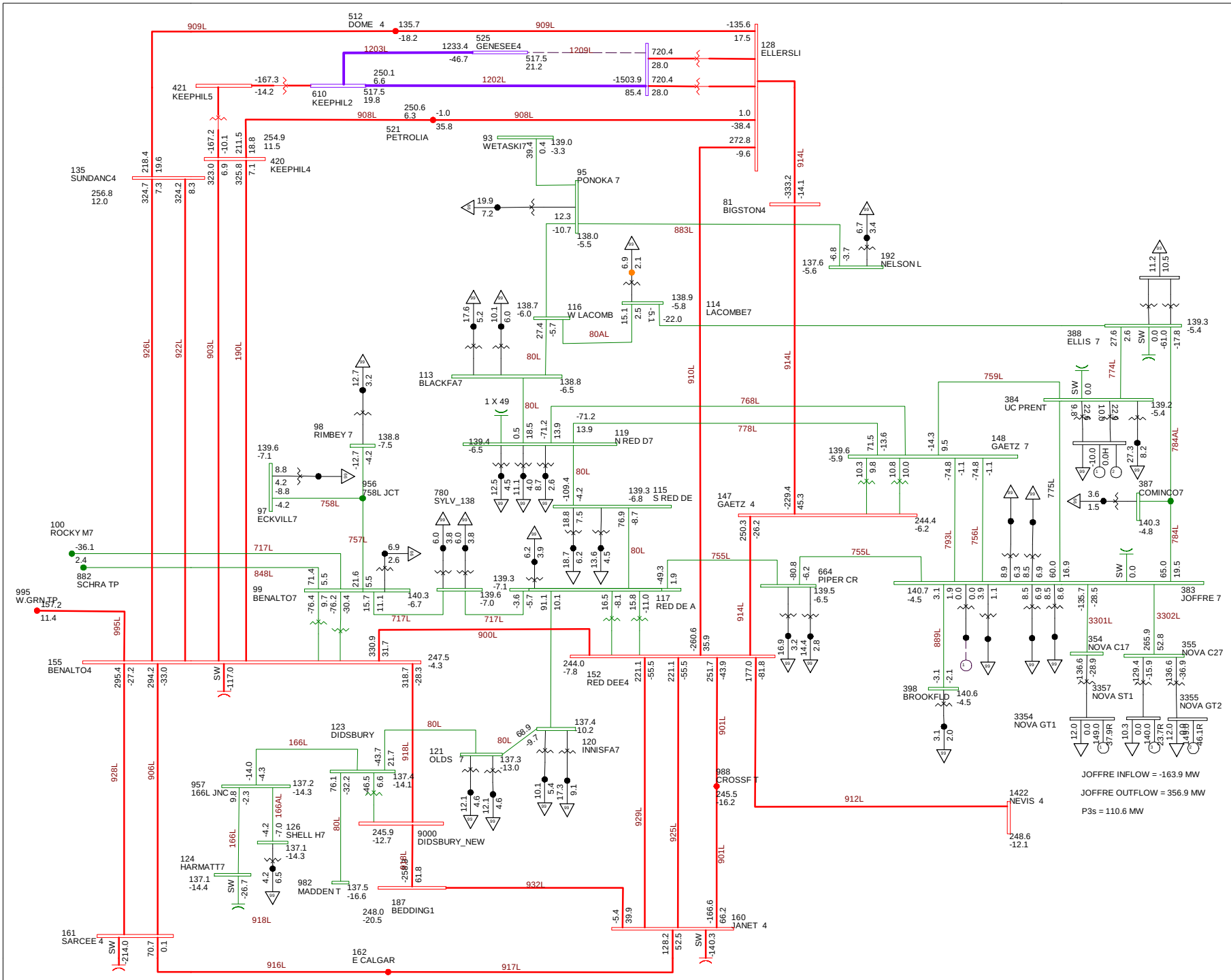
FIG 2012-ALT1-LOAD-SP-3(HIGH SOK)
500KV 1202L (ELLERSLIE 89S TO KEEPHILLS 320P) OUTAGE
TUE, MAR 01 2011 16:21

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR

100.0%RATEA

1.0/BOV 0.900/UV <=72.000 <=138.000 <=500.000 >500.000
KV: <=1.000 <=34.500 <=240.000

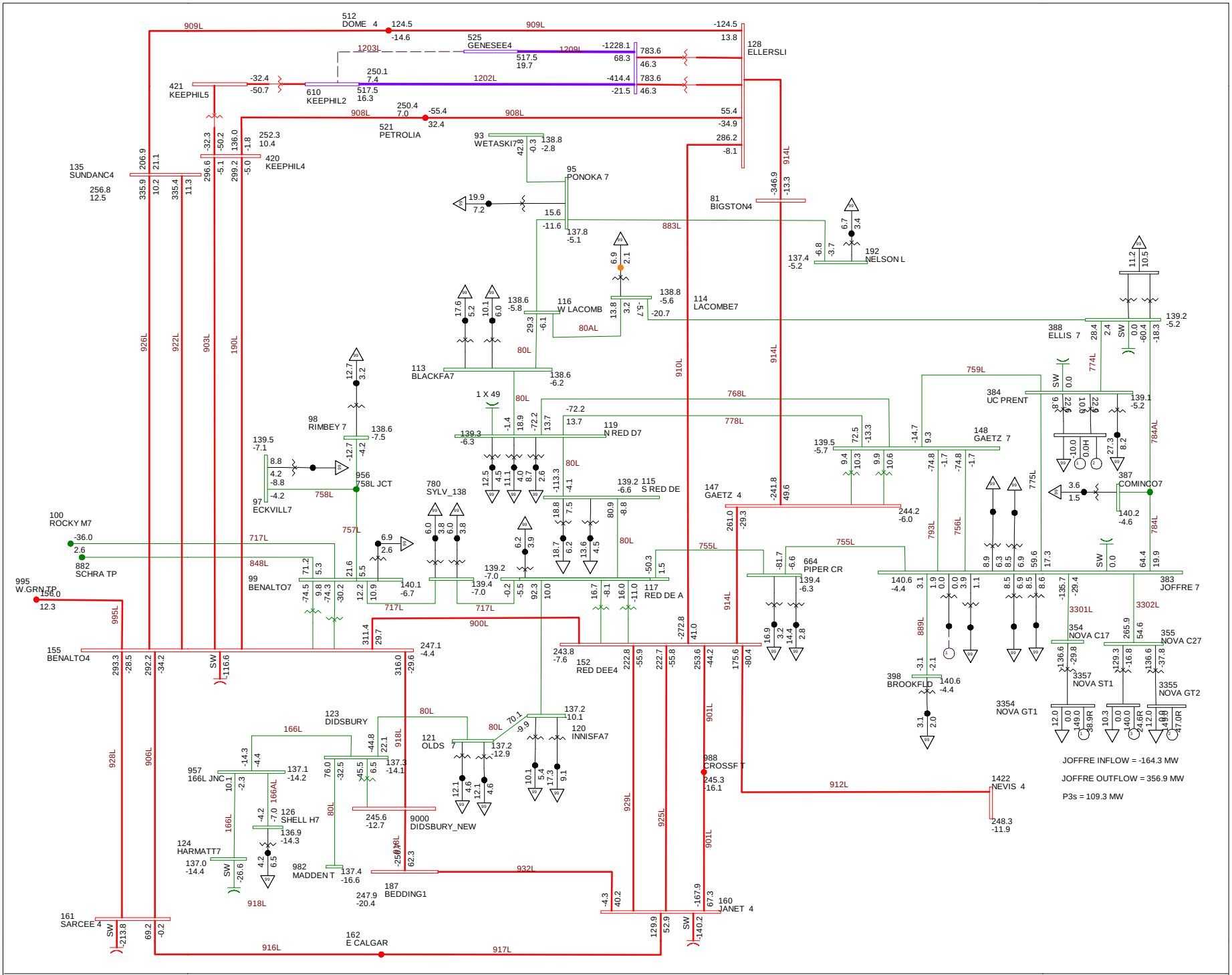
D-2012-163



RED DEER REGION STUDY
2012 S3_SOK_PK (2012 SUMMER PEAK CASE)

FIG 2012-ALT1-LOAD-SP-4(HIGH SOK)
500KV 1209L (ELLERSLIE 89S TO GENESEE E330P) OUTAGE
TUE, MAR 01 2011 16:21

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RED DEER REGION STUDY
2012 S3_SOK_PK (2012 SUMMER PEAK CASE)

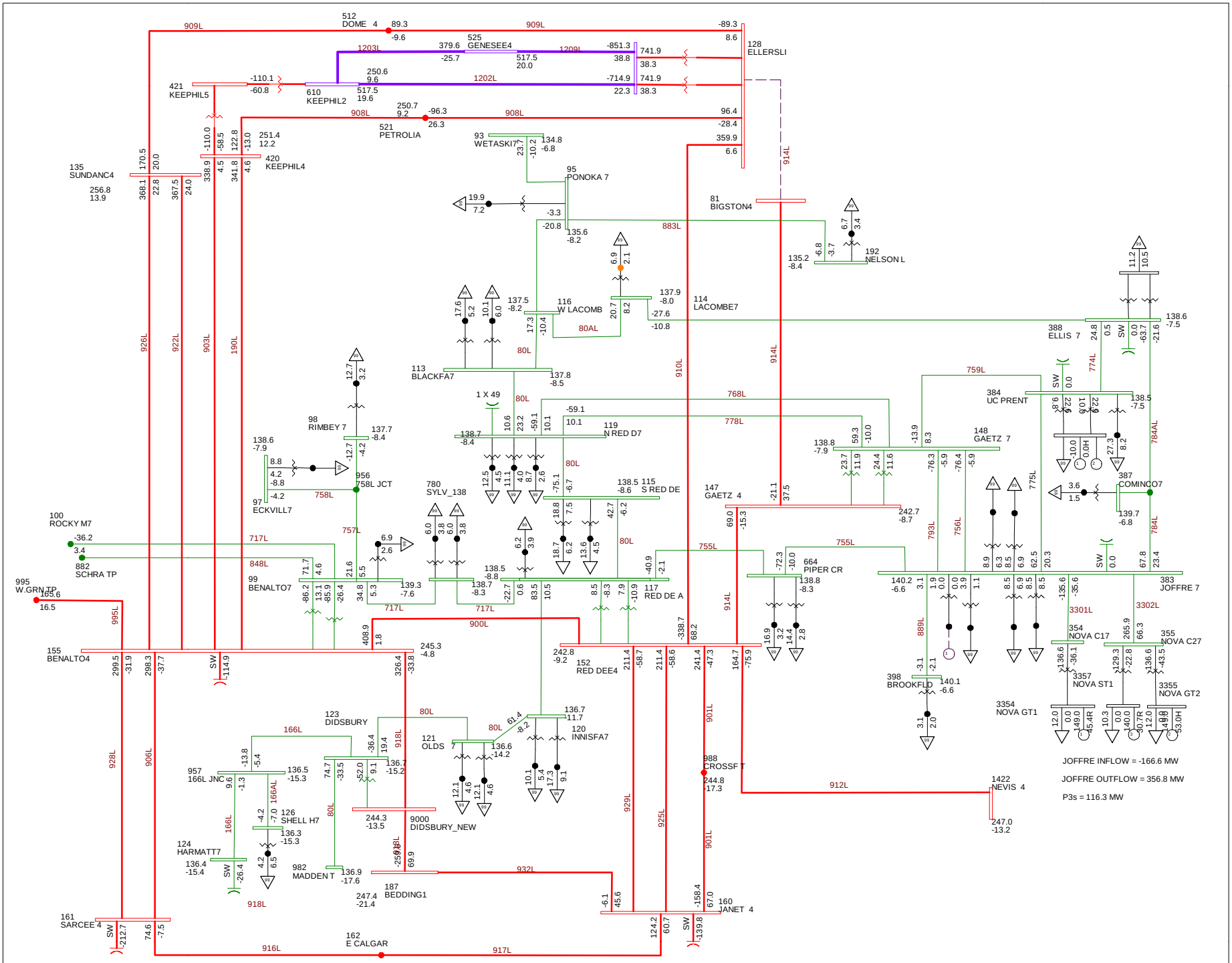
FIG 2012-ALT1-LOAD-SP-5(HIGH SOK)
500KV 1203L (GENESEE E330P TO KEEPHILLS 320P) OUTAGE
TUE, MAR 01 2011 16:21

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR

100.0%RATEA

1.080OV 0.900UV <=72.000 <=138.000 <=500.000 >500.000
KV: <=1.000 <=34.500 <=240.000

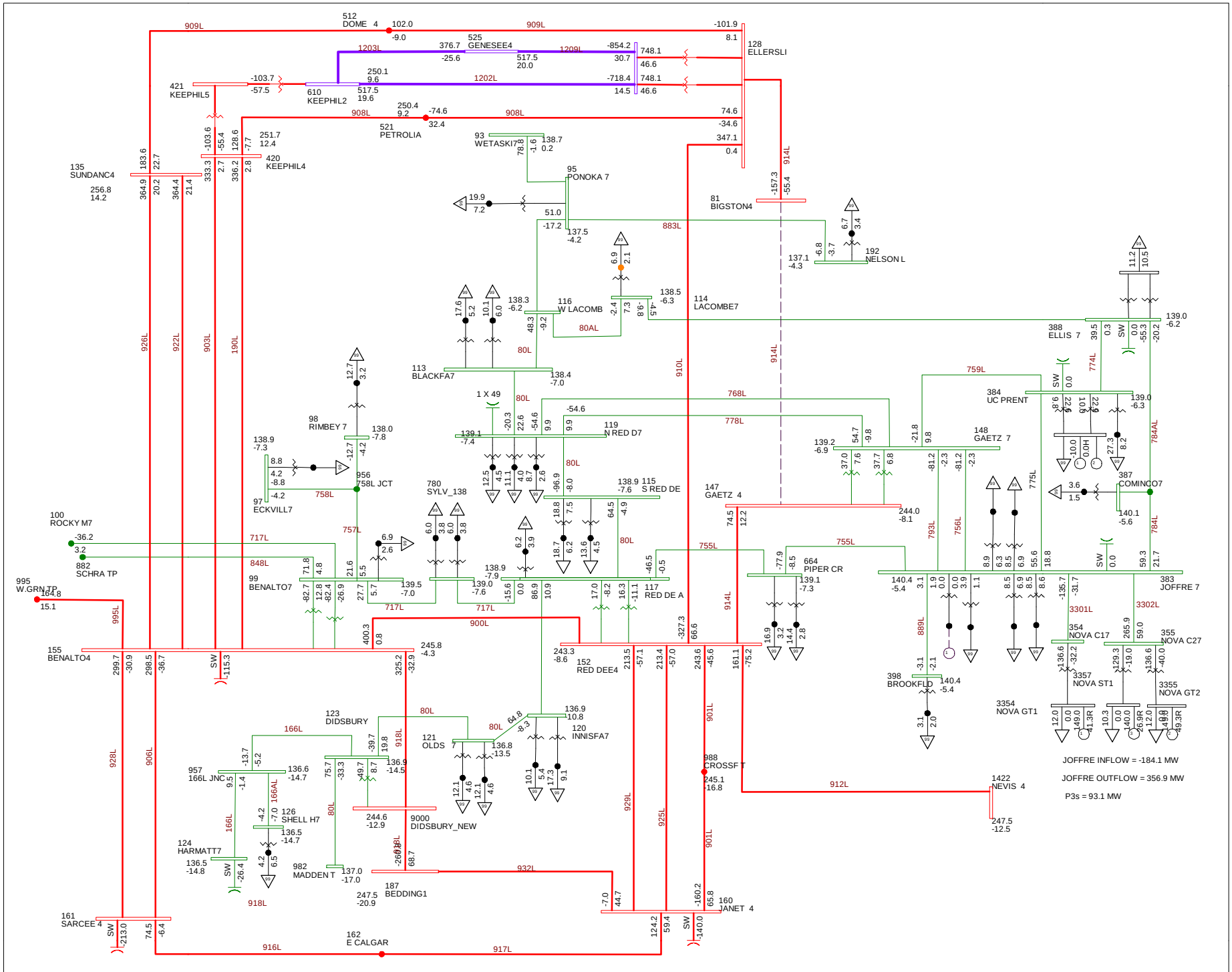
D-2012-165



RED DEER REGION STUDY
2012 S3_SOK_PK (2012 SUMMER PEAK CASE)

FIG 2012-ALT1-LOAD-SP-6(HIGH SOK)
240KV 914L (ELLERSLIE 89S TO BIGSTONE 86S) OUTAGE
TUE, MAR 01 2011 16:21

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RED DEER REGION STUDY
2012 S3_SOK_PK (2012 SUMMER PEAK CASE)

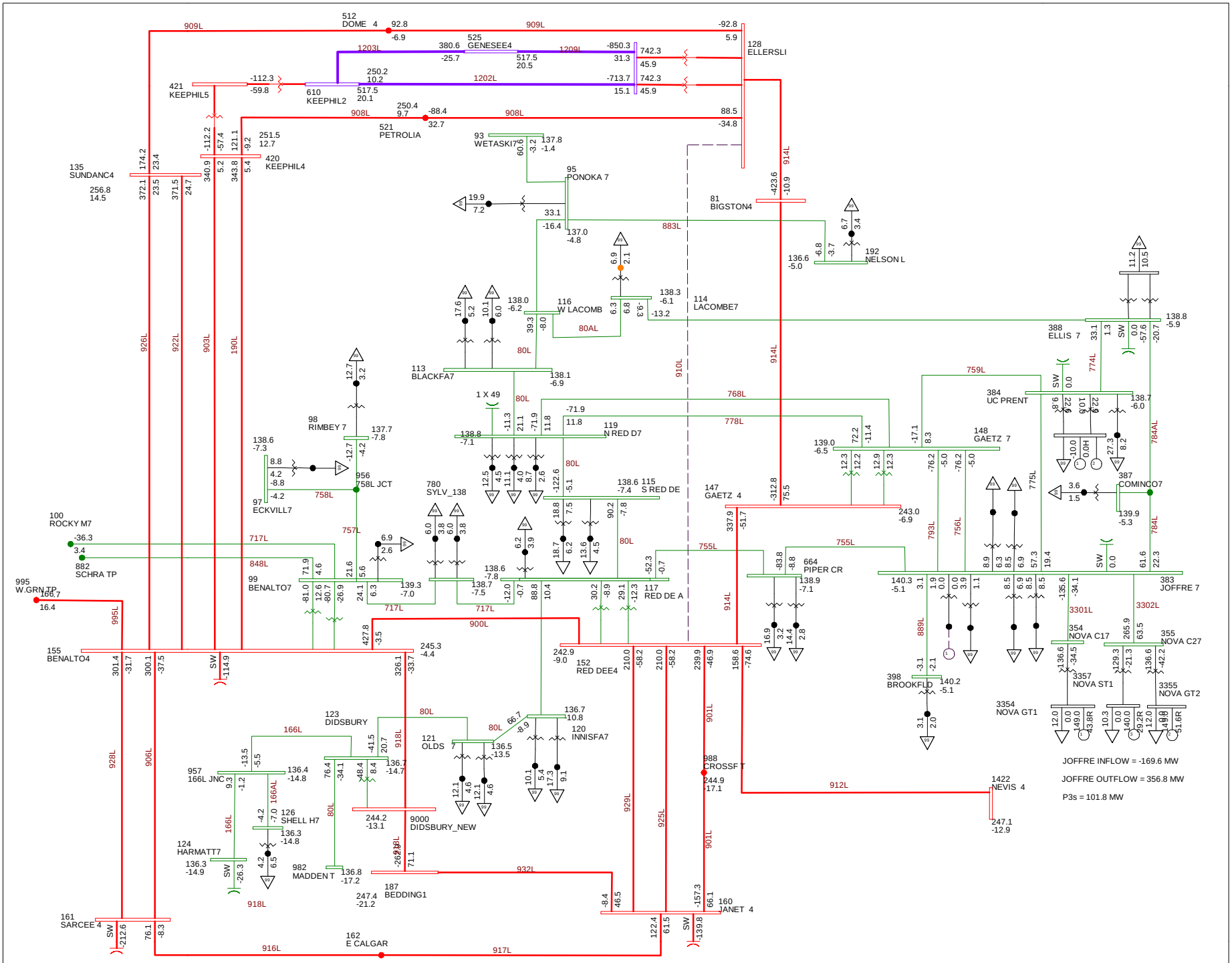
FIG 2012-ALT1-LOAD-SP-7(HIGH SOK)
240KV 914L (BIGSTONE 86S TO GAETZ 87S) OUTAGE
TUE, MAR 01 2011 16:21

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR

100.0%RATEA

1.000PU 0.900UV <=72.000 <=138.000 <=500.000 >500.000
KV: <=1.000 <=34.500 <=240.000

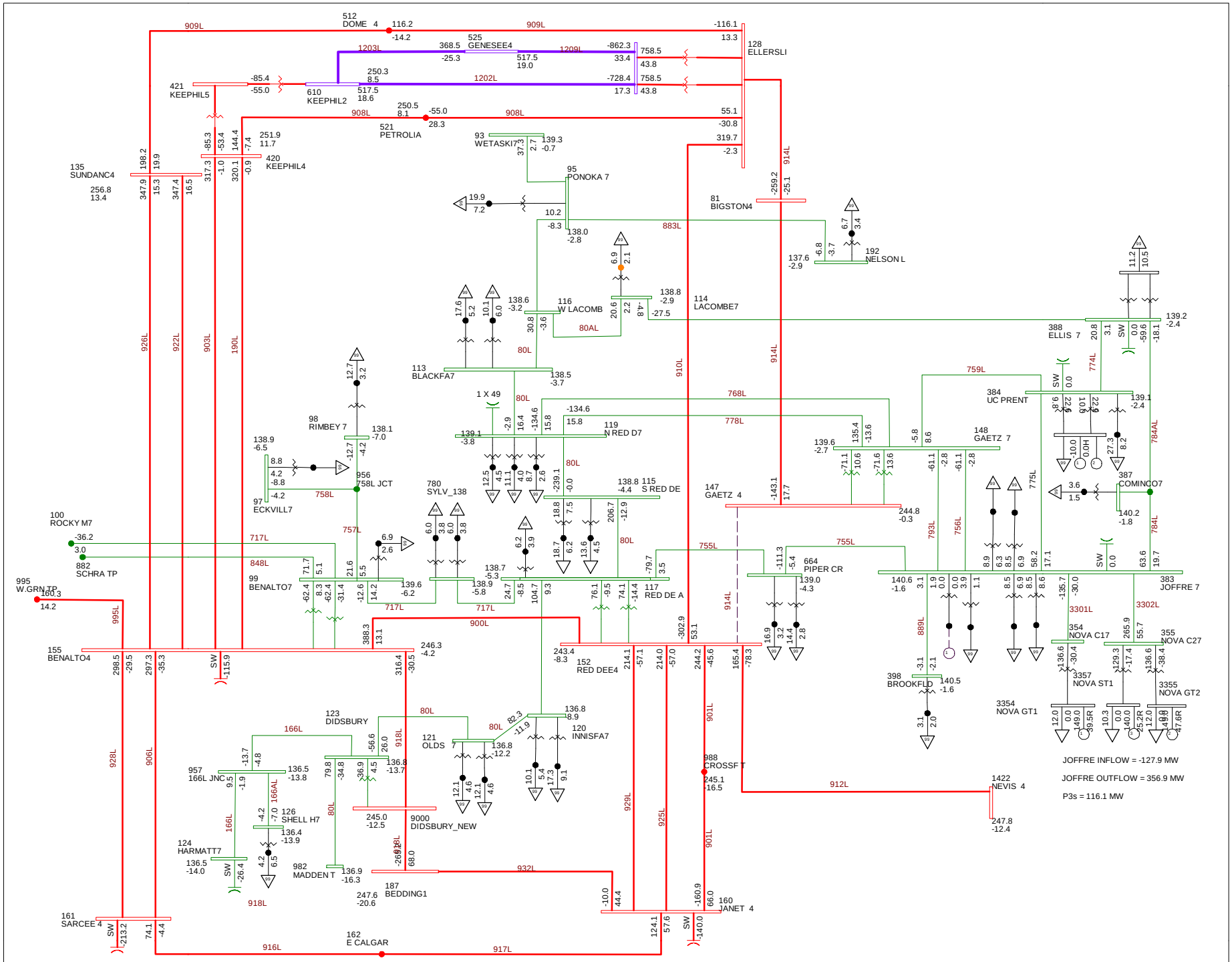
D-2012-167



RED DEER REGION STUDY
2012 S3_SOK_PK (2012 SUMMER PEAK CASE)

FIG 2012-ALT1-LOAD-SP-8(HIGH SOK)
240KV 910L (ELLERSLIE 89S TO RED DEER 63S) OUTAGE
TUE, MAR 01 2011 16:21

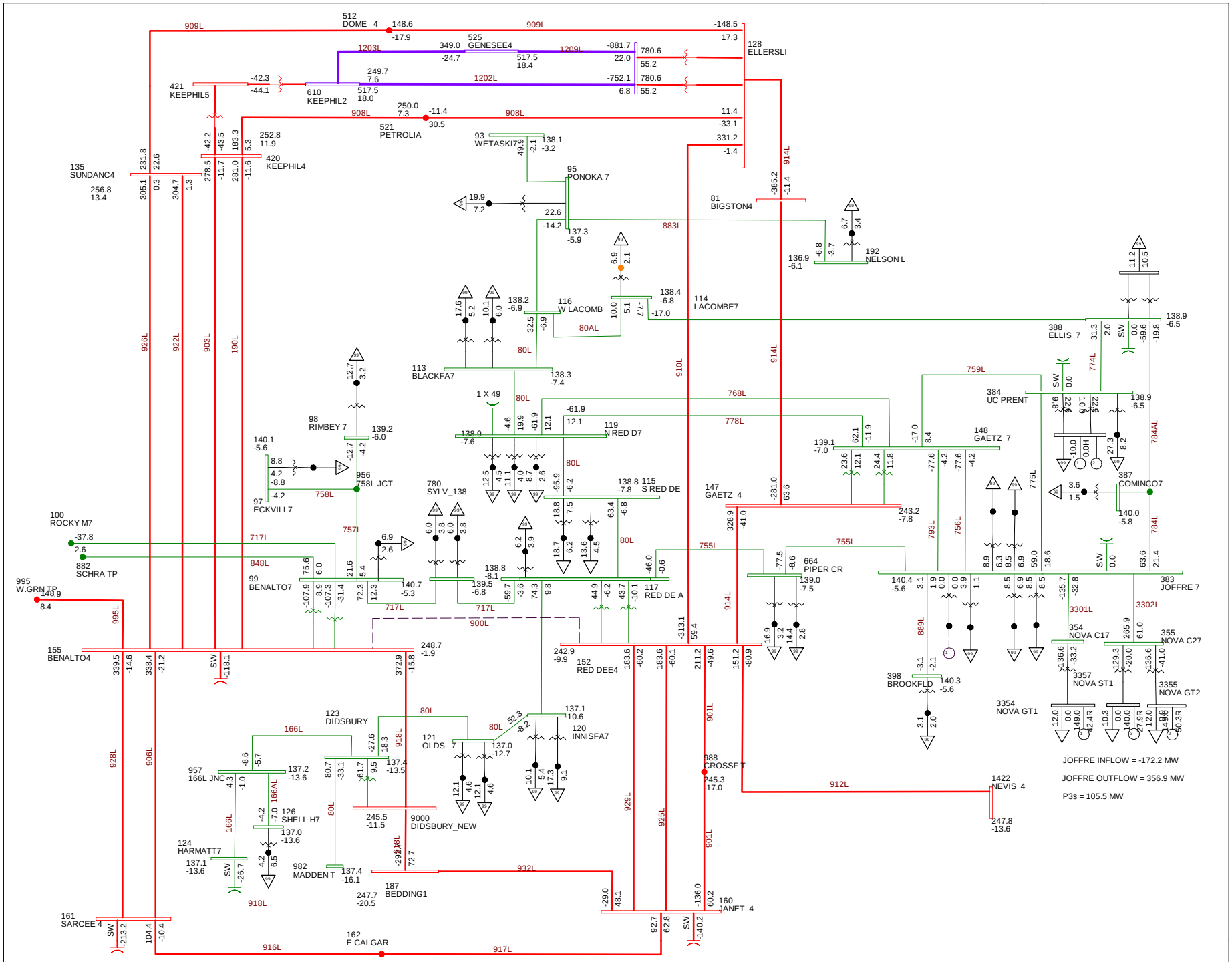
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RED DEER REGION STUDY
2012 S3_SOK_PK (2012 SUMMER PEAK CASE)

FIG 2012-ALT1-LOAD-SP-9(HIGH SOK)
240KV 914L (GAETZ 87S TO RED DEER 63S) OUTAGE
TUE, MAR 01 2011 16:21

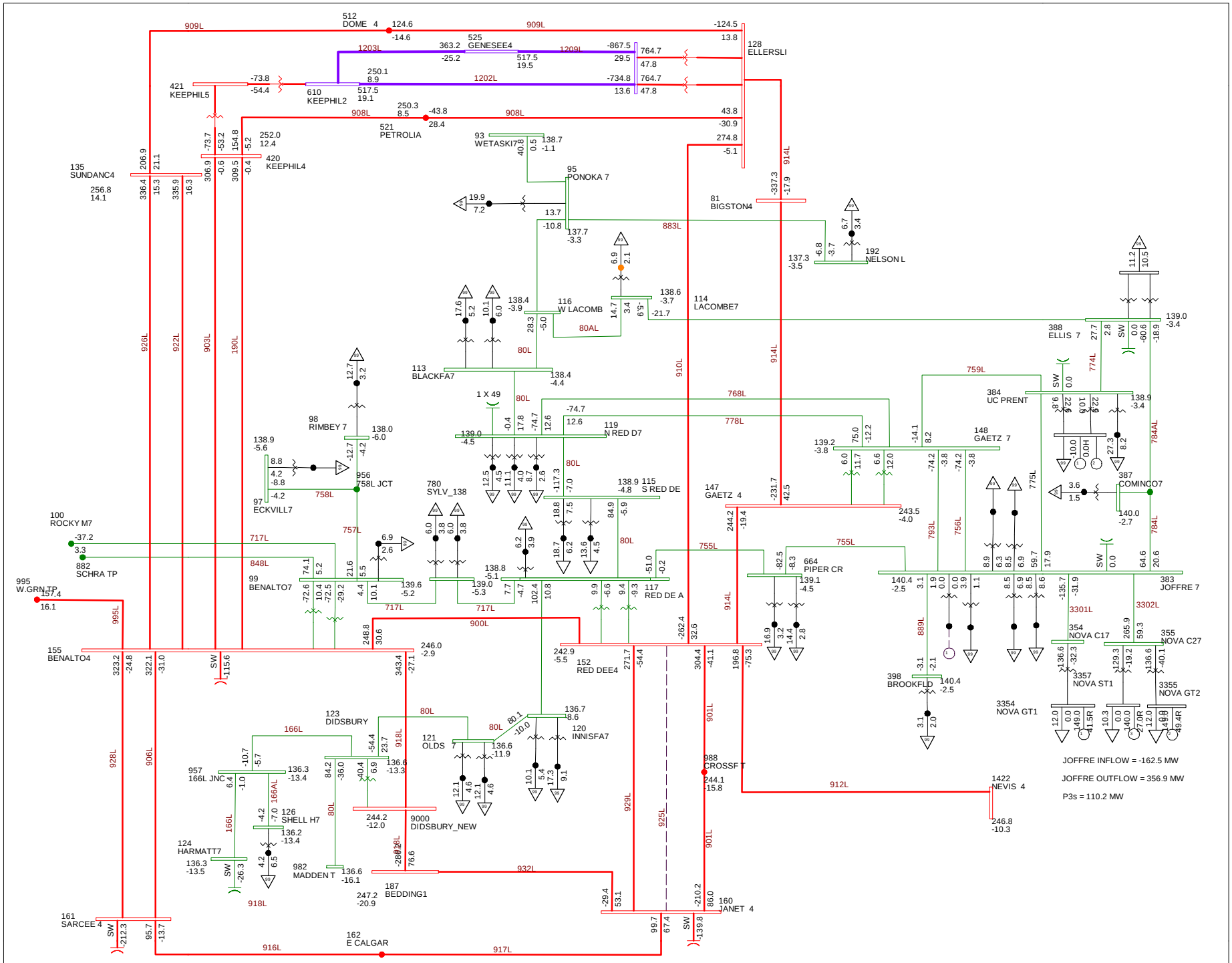
D-2012-169



RED DEER REGION STUDY
2012 S3_SOK_PK (2012 SUMMER PEAK CASE)

FIG 2012-ALT1-LOAD-SP-10(HIGH SOK)
240KV 900L (RED DEER 63S TO BENALTO 17S) OUTAGE
TUE, MAR 01 2011 16:21

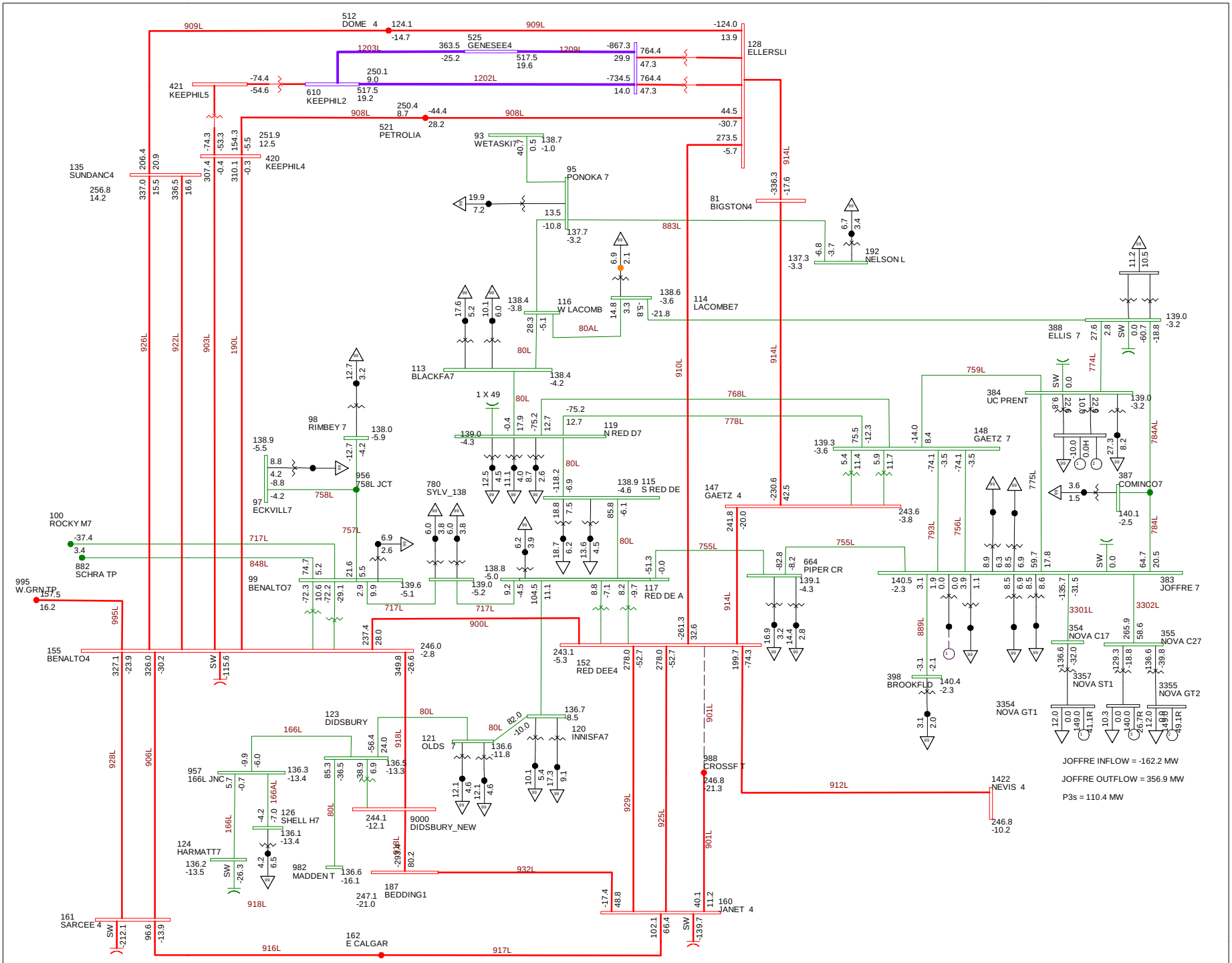
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RED DEER REGION STUDY
2012 S3_SOK_PK (2012 SUMMER PEAK CASE)

FIG 2012-ALT1-LOAD-SP-11(HIGH SOK)
240KV 929/925L (RED DEER 63S TO JANET 74S) OUTAGE
TUE, MAR 01 2011 16:21

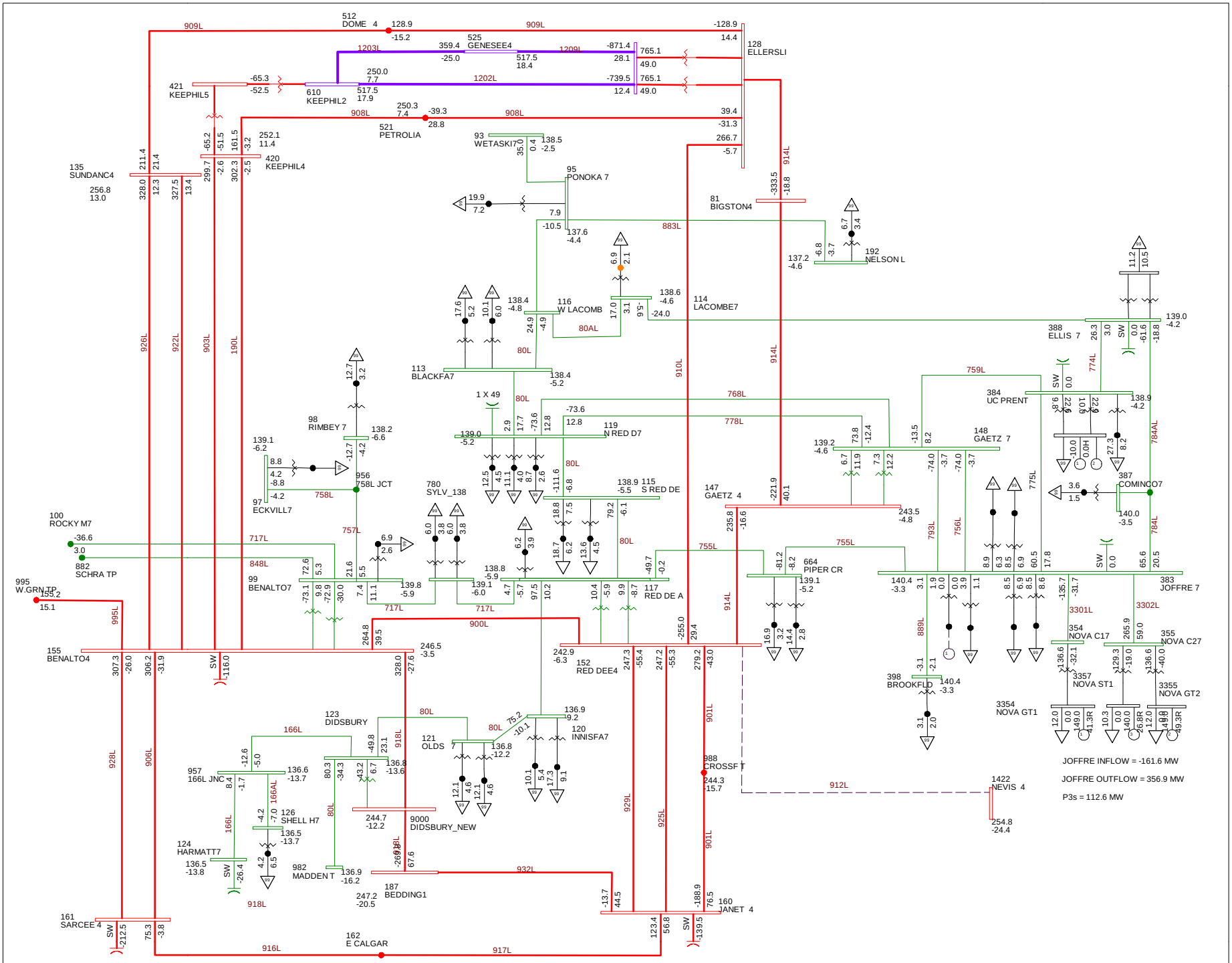
D-2012-171



RED DEER REGION STUDY
2012 S3_SOK_PK (2012 SUMMER PEAK CASE)

FIG 2012-ALT1-LOAD-SP-12(HIGH SOK)
240KV 901L (RED DEER 63S TO CROSSFIELD 64S) OUTAGE
TUE, MAR 01 2011 16:21

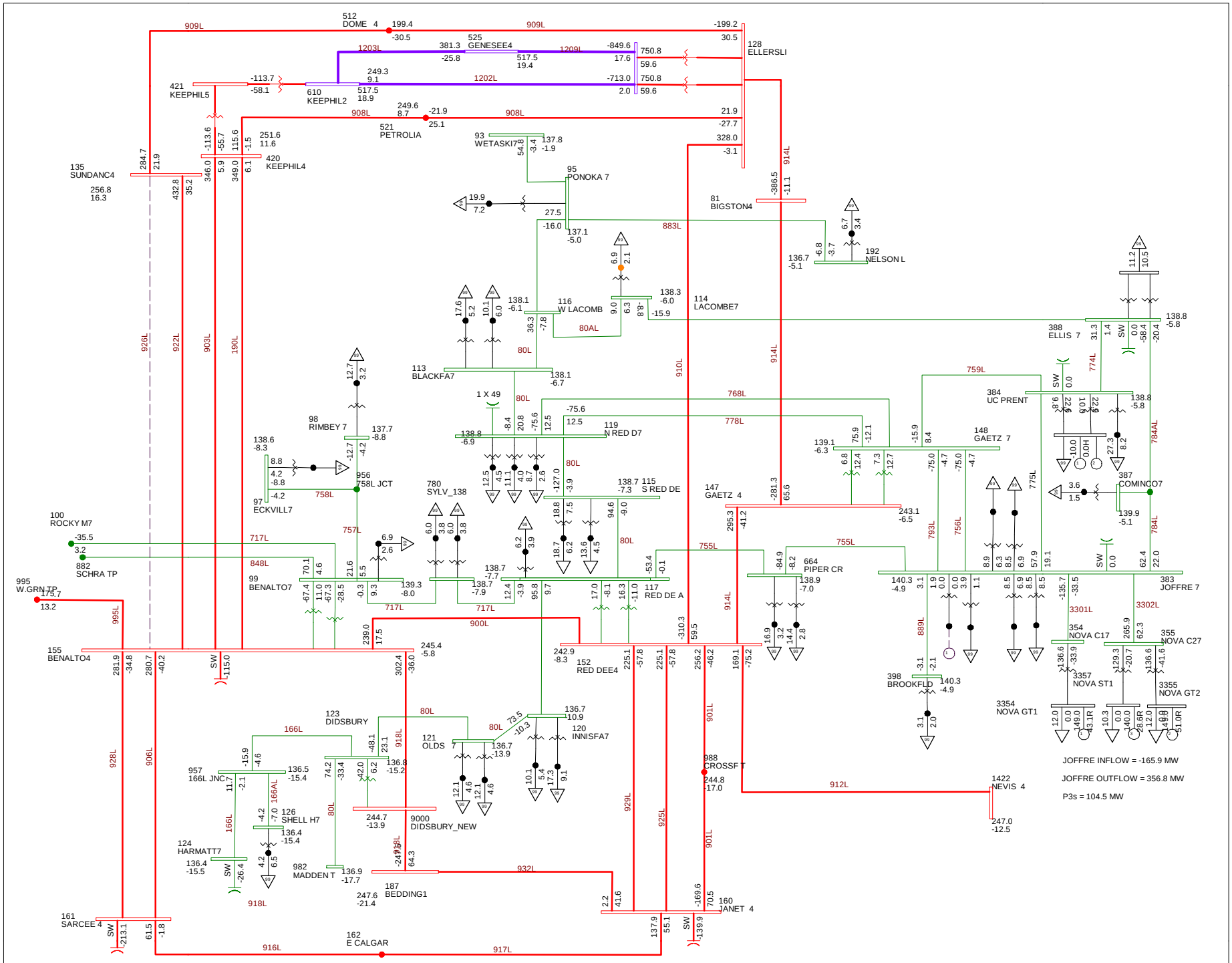
D-2012-172



RED DEER REGION STUDY
2012 S3_SOK_PK (2012 SUMMER PEAK CASE)

FIG 2012-ALT1-LOAD-SP-13(HIGH SOK)
240KV 912L (RED DEER 63S TO NEVIS 766S) OUTAGE
TUE, MAR 01 2011 16:21

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RED DEER REGION STUDY
2012 S3_SOK_PK (2012 SUMMER PEAK CASE)

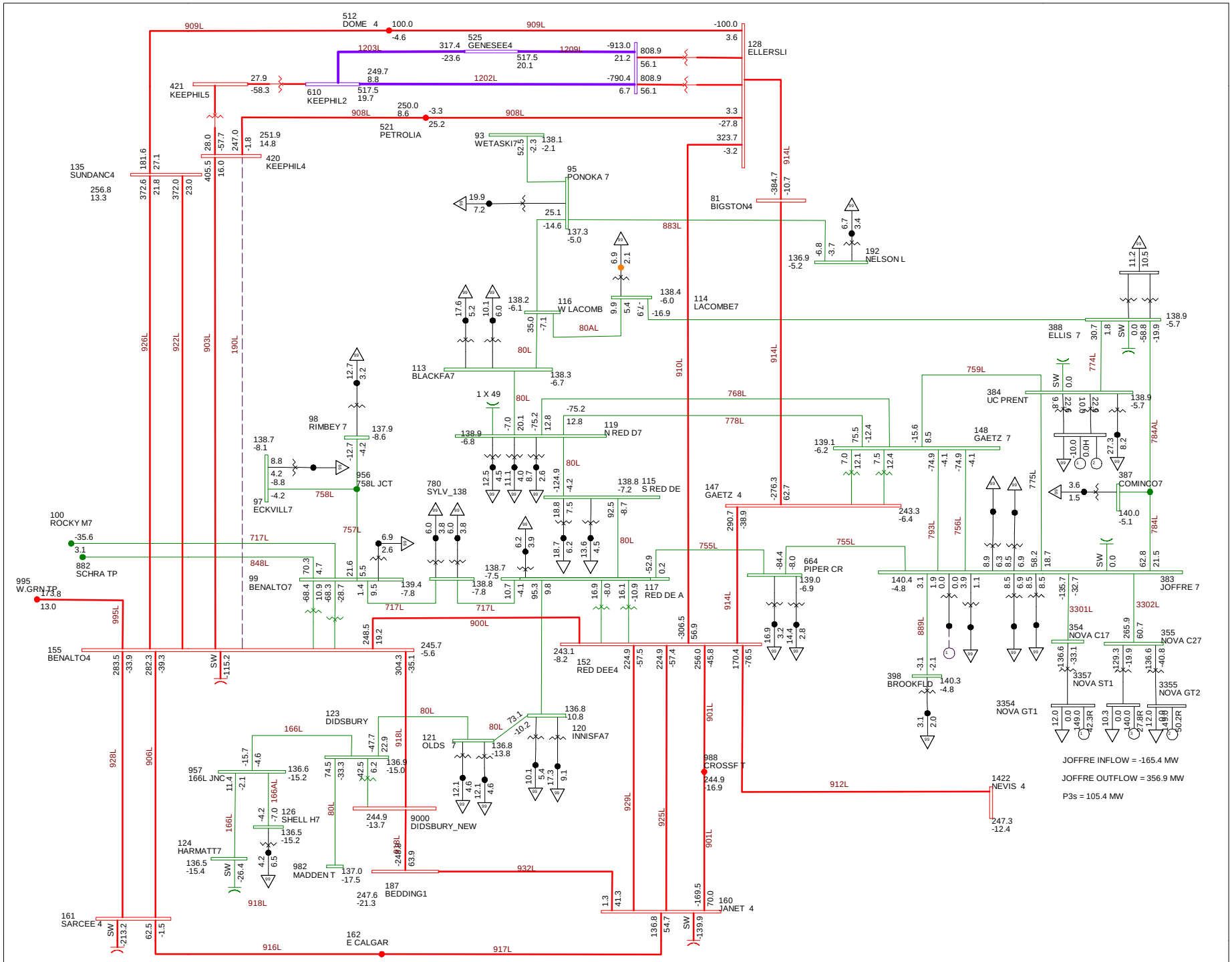
FIG 2012-ALT1-LOAD-SP-14(HIGH SOK)
240 KV 926/922L (SUNDANCE 310P TO BENALTO 17S) OUTAGE
TUE, MAR 01 2011 16:21

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR

100.0%RATEA

1.0/BOV 0.900/UV <=72.000 <=138.000 <=500.000 >500.000
KV: <=1.000 <=34.500 <=240.000

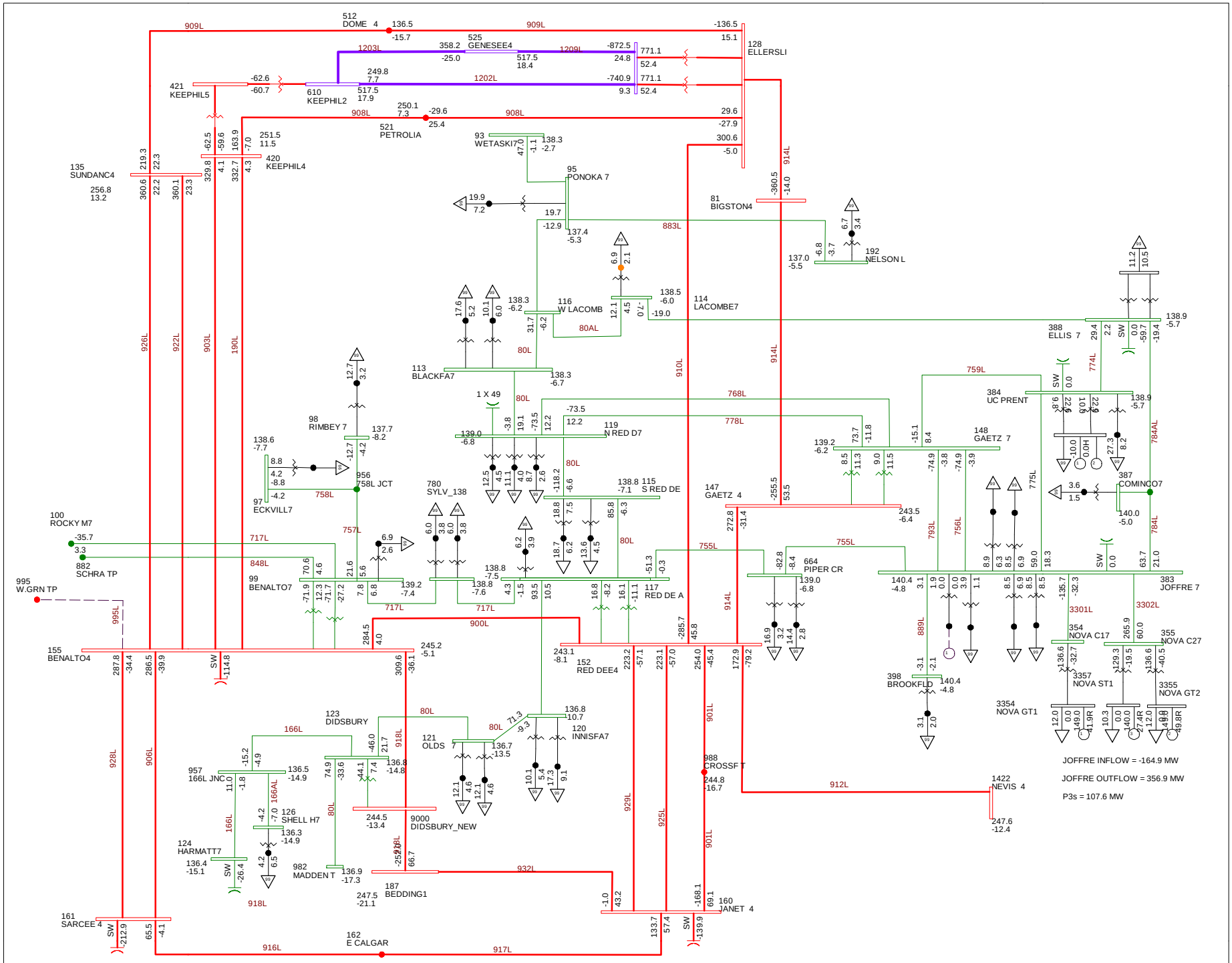
D-2012-174



RED DEER REGION STUDY
2012 S3_SOK_PK (2012 SUMMER PEAK CASE)

FIG 2012-ALT1-LOAD-SP-15(HIGH SOK)
240KV 190/903L (KEEPHILLS 320P TO BENALTO 17S) OUTAGE
TUE, MAR 01 2011 16:21

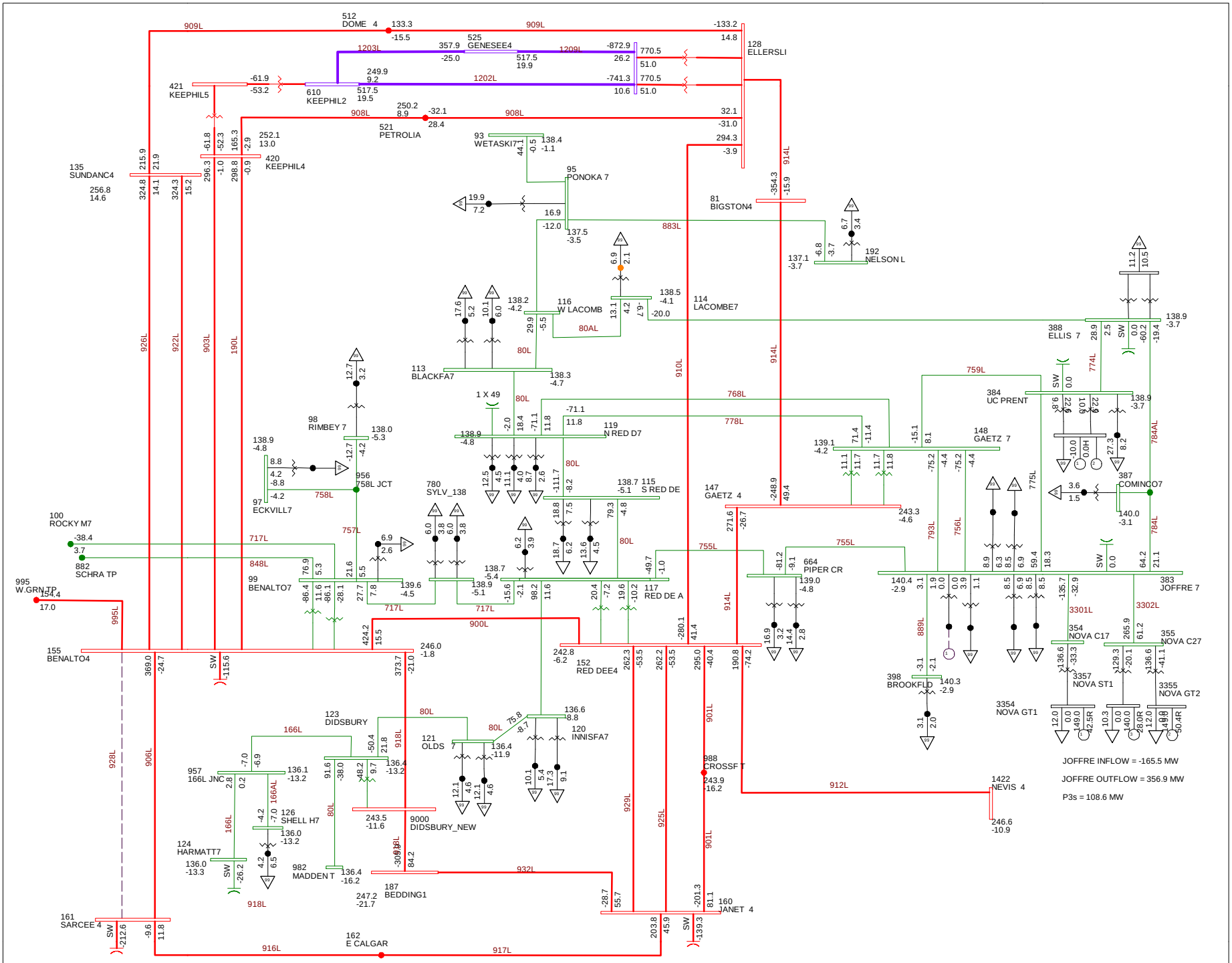
D-2012-175



RED DEER REGION STUDY
2012 S3_SOK_PK (2012 SUMMER PEAK CASE)

FIG 2012-ALT1-LOAD-SP-16(HIGH SOK)
240 KV 995L (AMOCO WILLESDEN GREEN 68S TO BENALTO 17S) OUTAG
TUE, MAR 01 2011 16:21

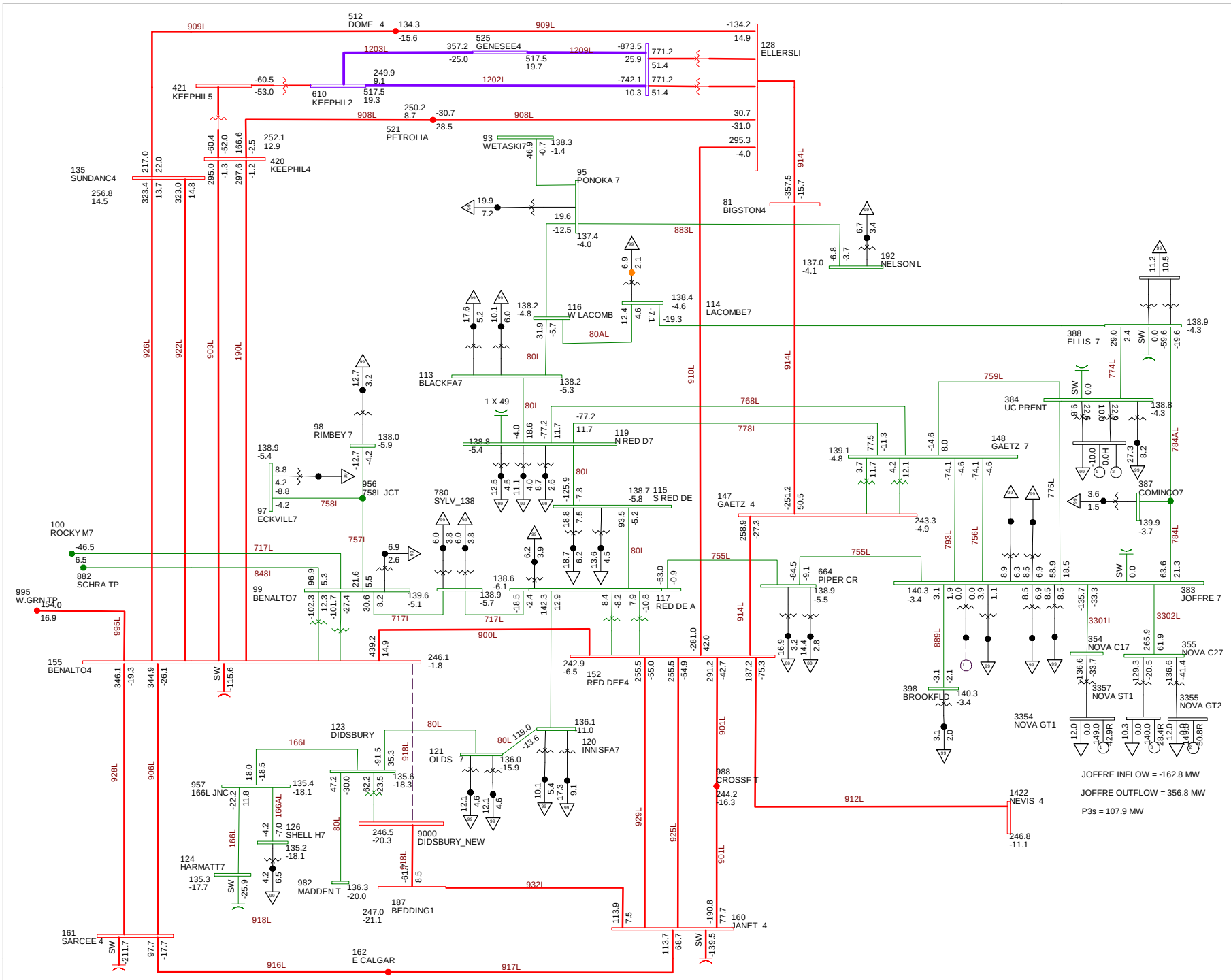
D-2012-176



RED DEER REGION STUDY
2012 S3_SOK_PK (2012 SUMMER PEAK CASE)

FIG 2012-ALT1-LOAD-SP-17(HIGH SOK)
240 KV 906/928L (BENALTO 17S TO SARCEE 42S) OUTAGE
TUE, MAR 01 2011 16:21

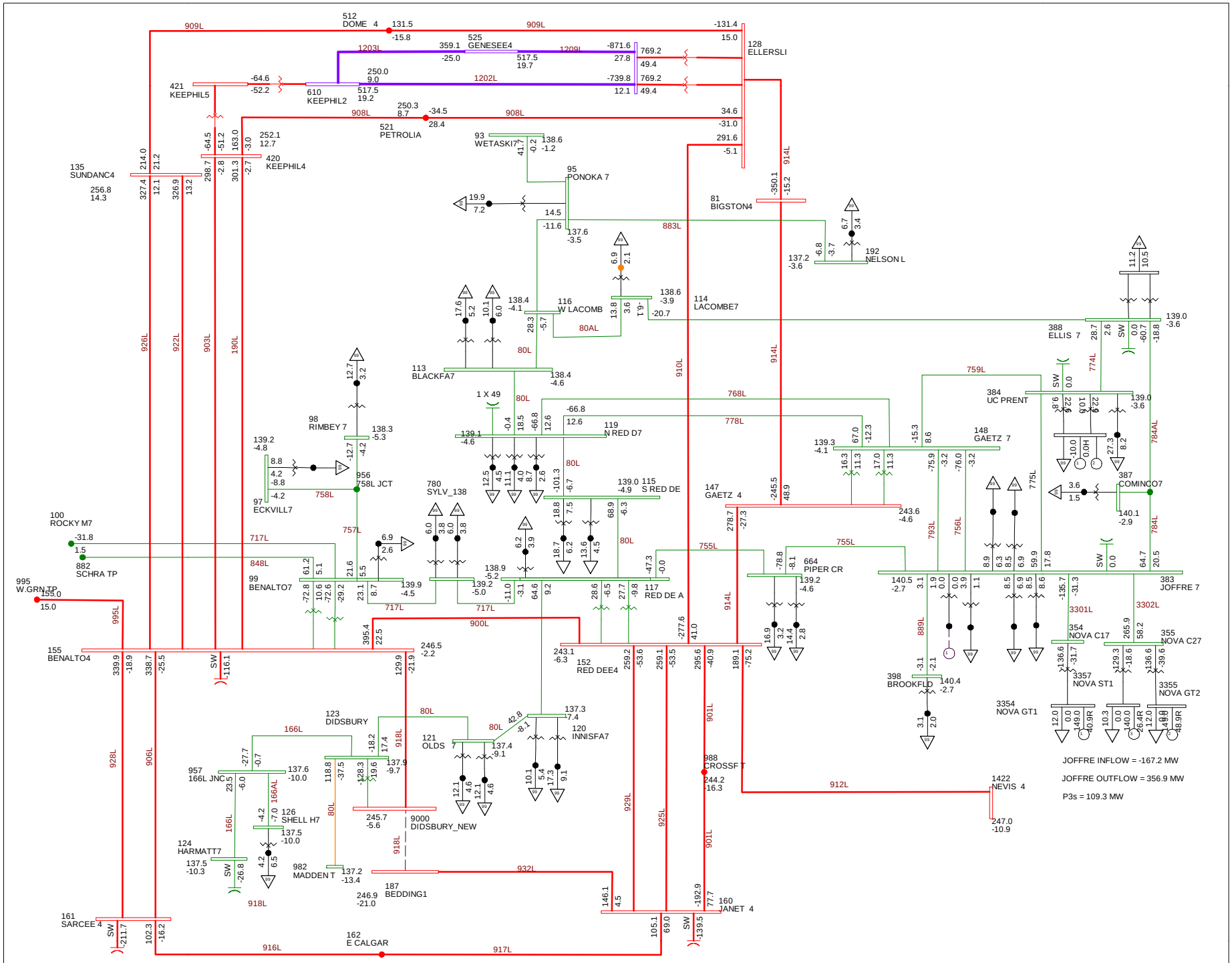
D-2012-177



RED DEER REGION STUDY
2012 S3_SOK_PK (2012 SUMMER PEAK CASE)

FIG 2012-ALT1-LOAD-SP-18(HIGH SOK)
240 KV 918L (BENALTO 17S TO DIDSBURY SUB. (152S)) OUTAGE
TUE, MAR 01 2011 16:21

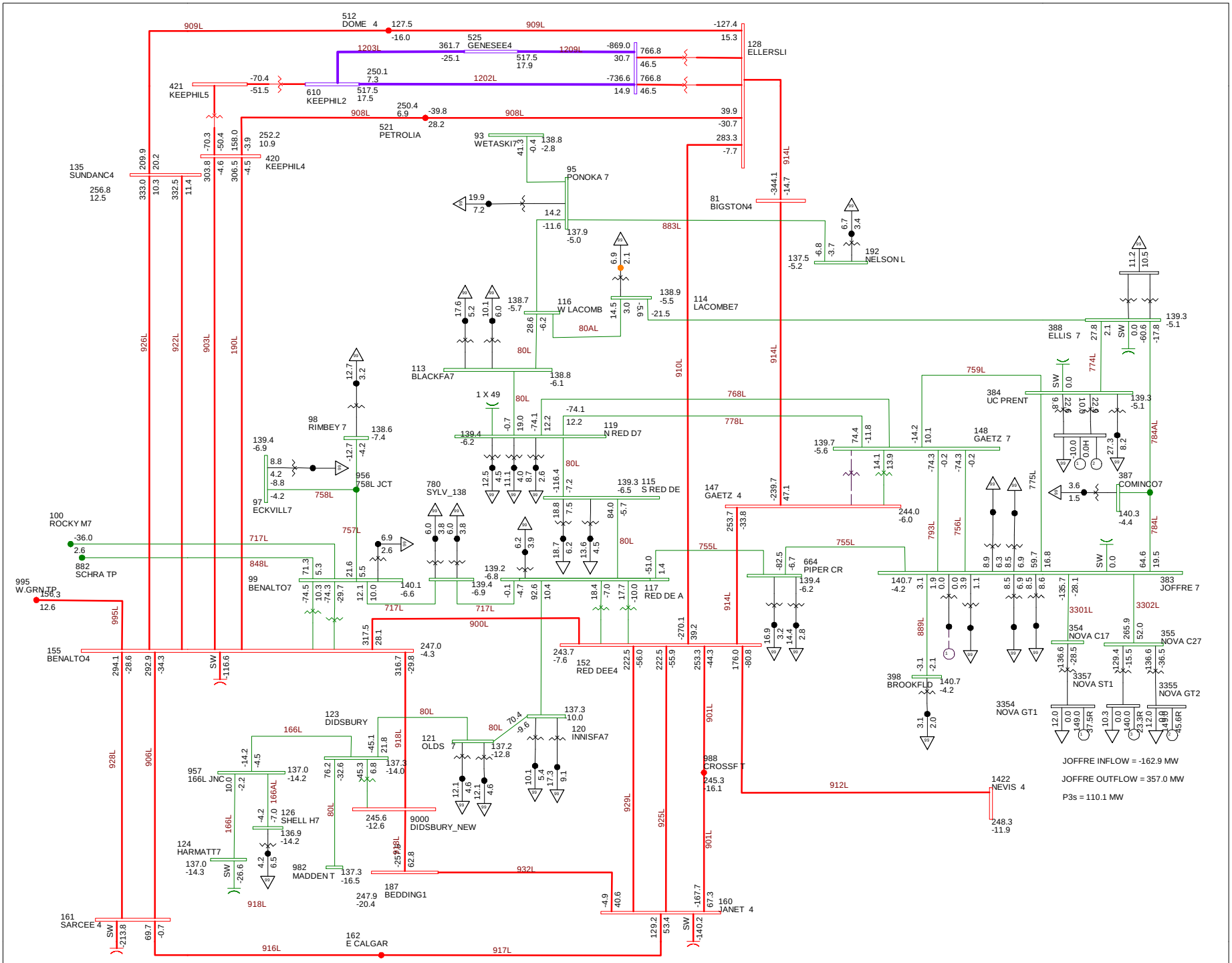
D-2012-178



RED DEER REGION STUDY
2012 S3_SOK_PK (2012 SUMMER PEAK CASE)

FIG 2012-ALT1-LOAD-SP-19(HIGH SOK)
240 KV 918L (DIDSBURY SUB. (152S) TO BEDDINGTON 162S) OUTAGE
TUE, MAR 01 2011 16:21

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RED DEER REGION STUDY
2012 S3_SOK_PK (2012 SUMMER PEAK CASE)

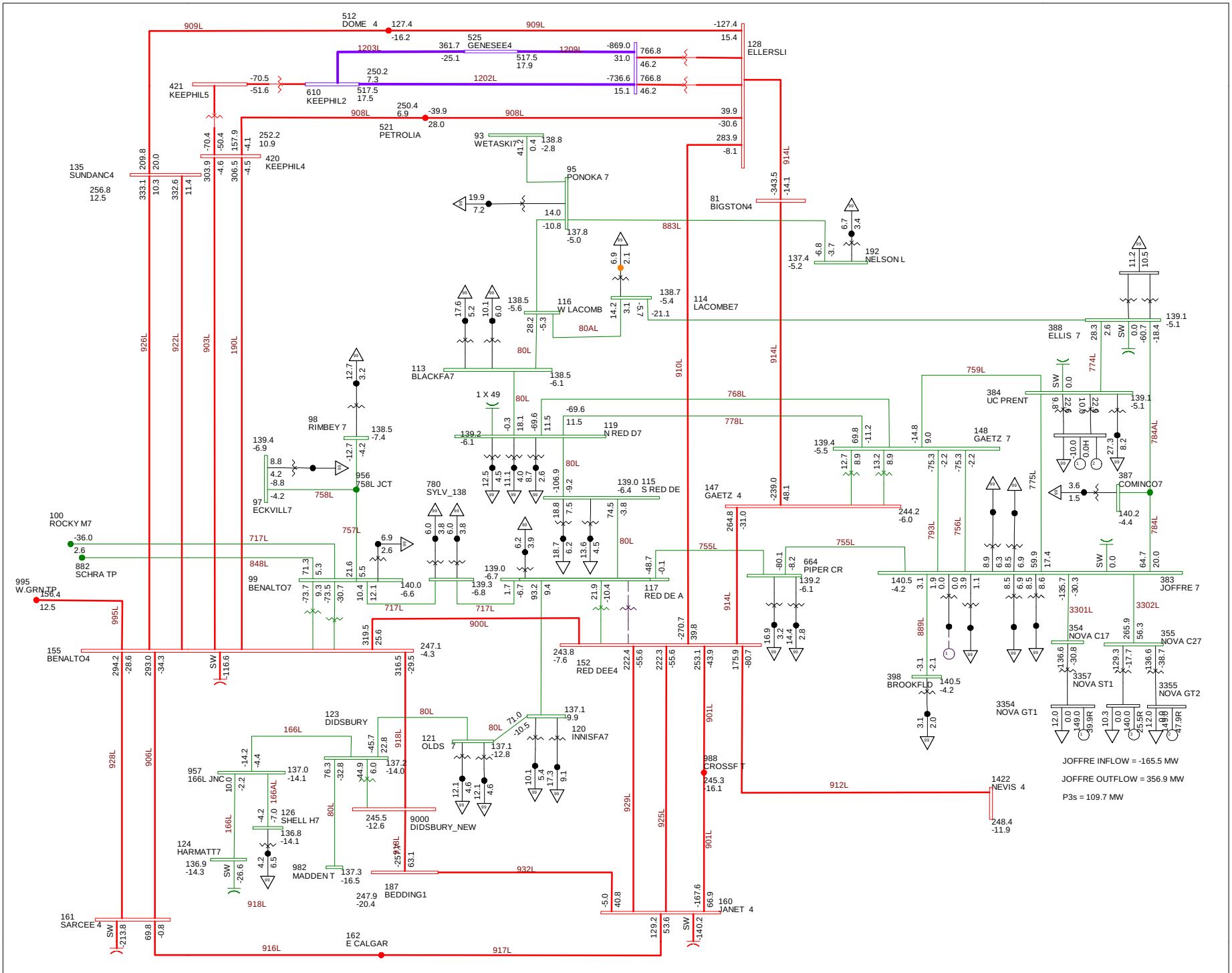
FIG 2012-ALT1-LOAD-SP-20(HIGH SOK)
240/138KV TRANSFORMER AT GAETZ 87S OUTAGE
TUE, MAR 01 2011 16:21

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR

100.0%RATEA

1.000kV 0.900kV <=72.000 <=138.000 <=500.000 >500.000
KV: <=1.000 <=34.500 <=240.000

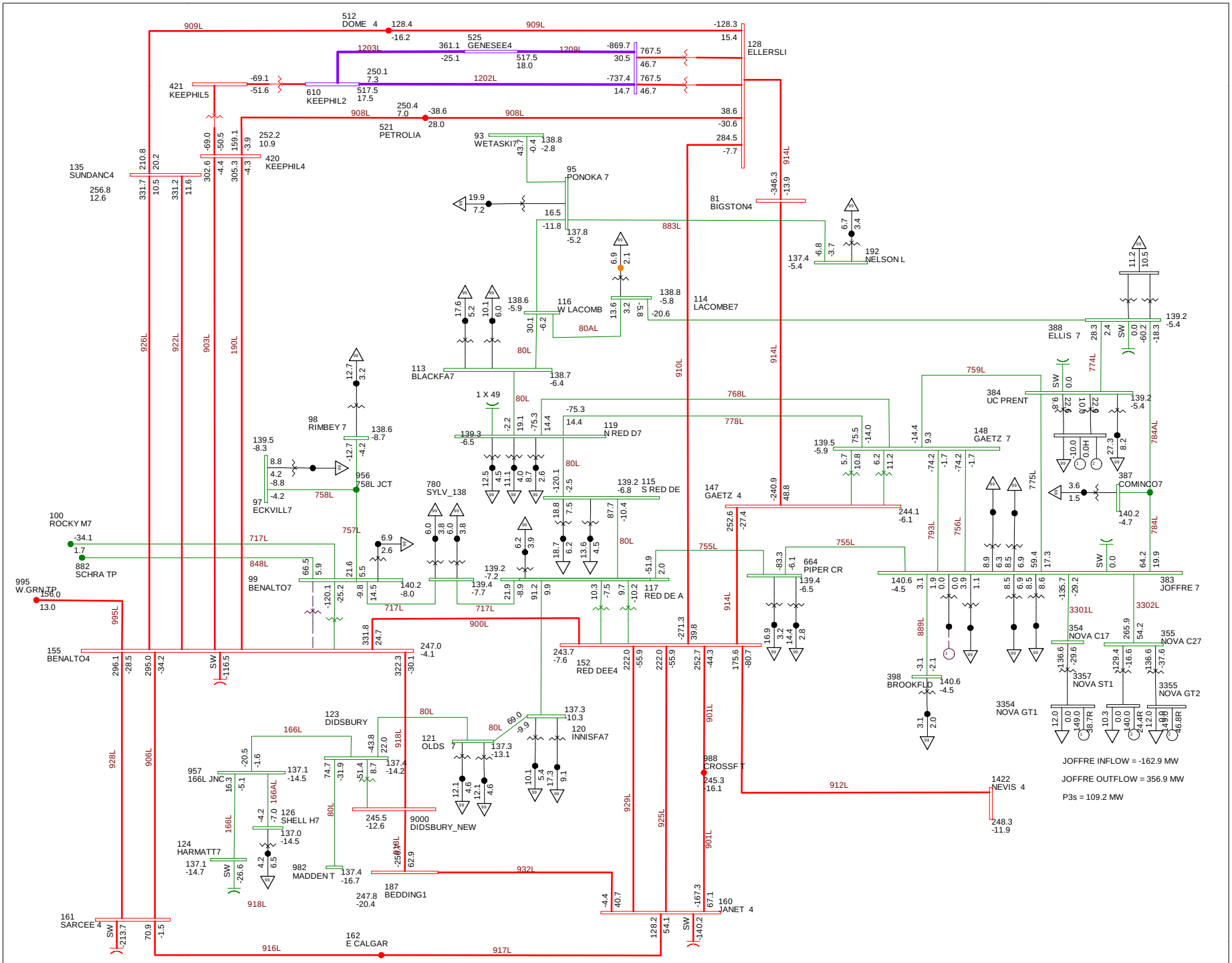
D-2012-180



RED DEER REGION STUDY
2012 S3_SOK_PK (2012 SUMMER PEAK CASE)

FIG 2012-ALT1-LOAD-SP-21(HIGH SOK)
240/138KV TRANSFORMER AT RED DEER 63S OUTAGE
TUE, MAR 01 2011 16:21

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RED DEER REGION STUDY
2012 S3_SOK_PK (2012 SUMMER PEAK CASE)

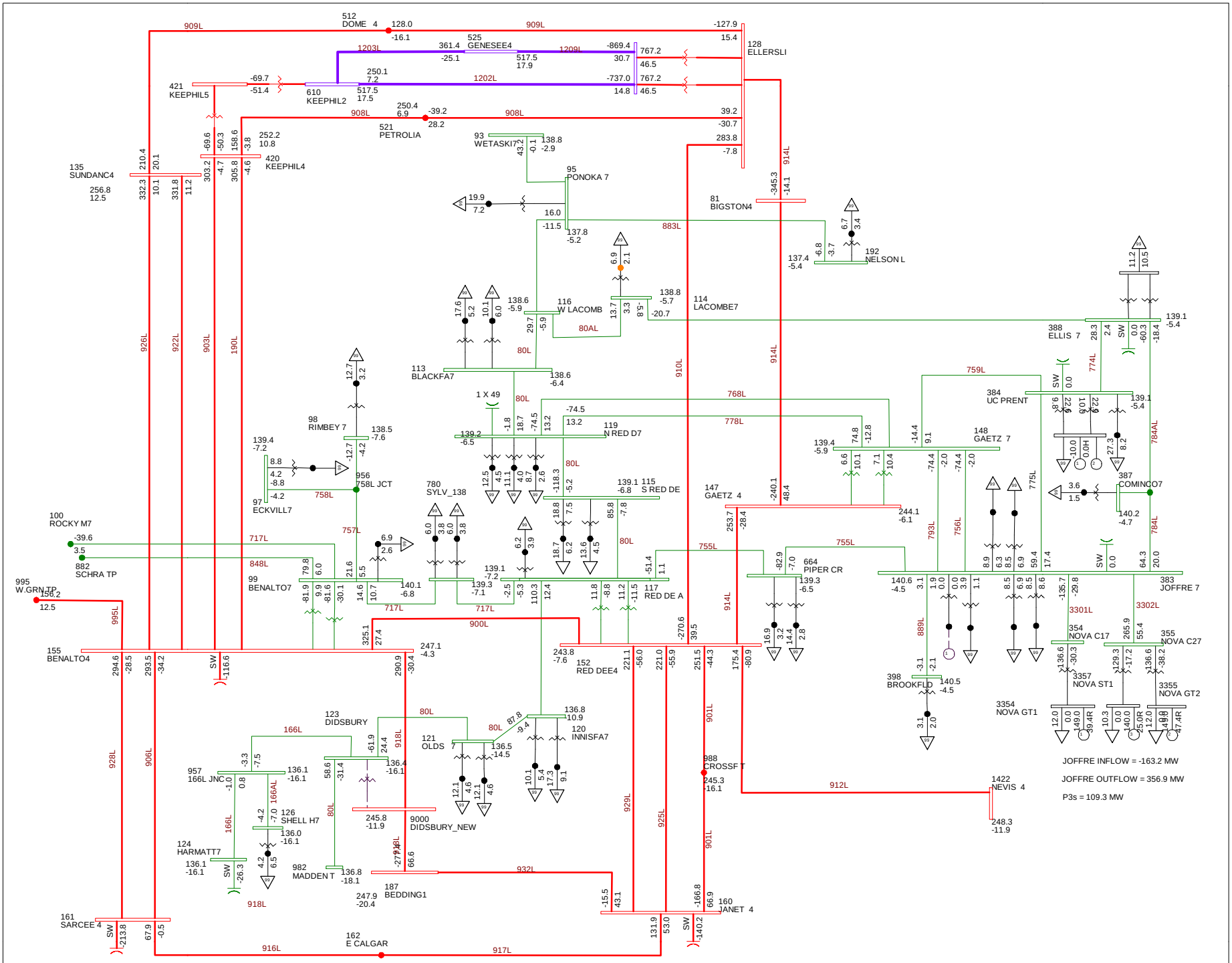
FIG 2012-ALT1-LOAD-SP-22(HIGH SOK)
240/138KV TRANSFORMER AT BENALTO 17S OUTAGE
TUE, MAR 01 2011 16:21

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR

100.0%RATEA

1.000PU 0.900UV <=72.000 <=138.000 <=500.000 >500.000
KV: <=1.000 <=34.500 <=240.000

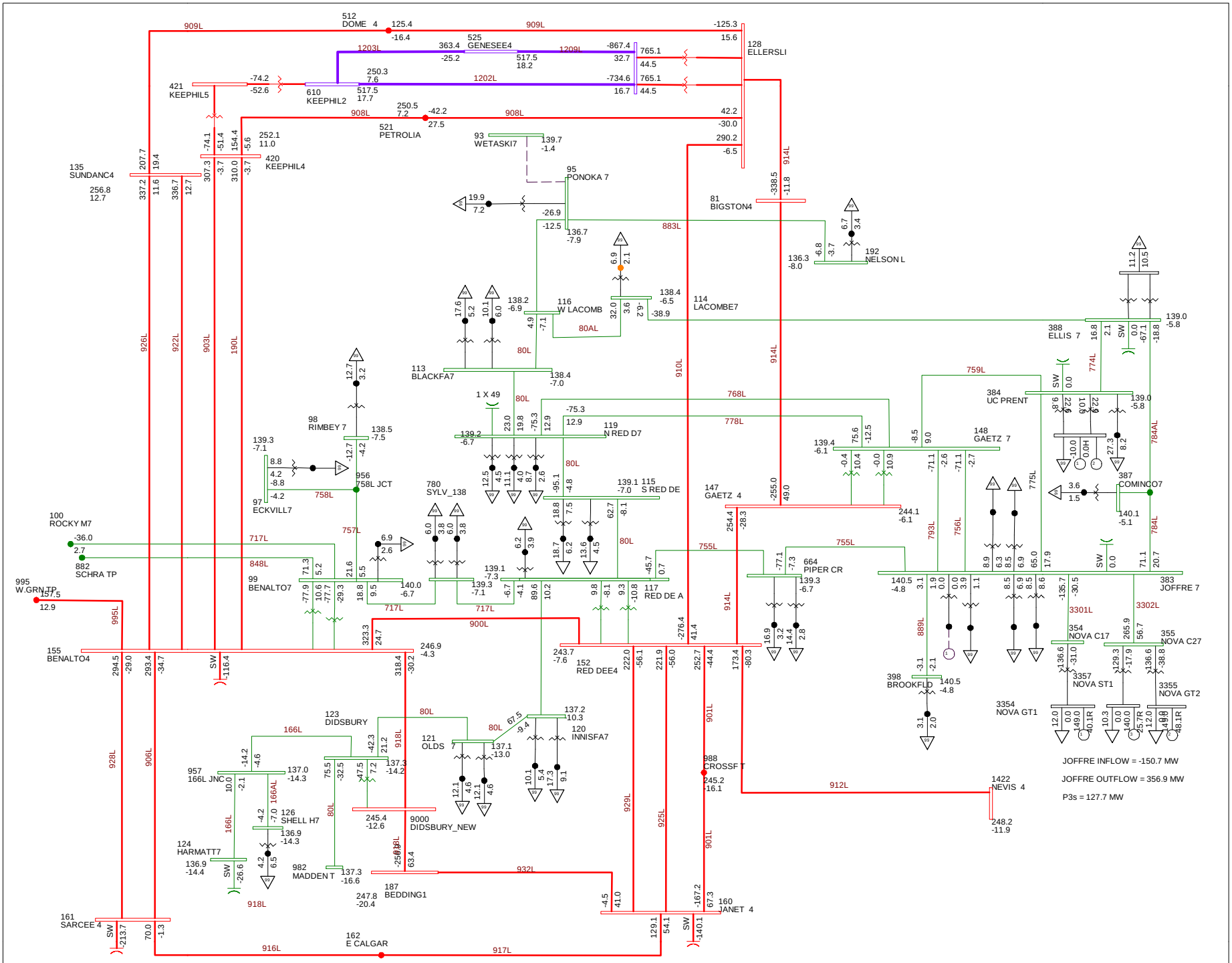
D-2012-182



RED DEER REGION STUDY
2012 S3_SOK_PK (2012 SUMMER PEAK CASE)

FIG 2012-ALT1-LOAD-SP-23(HIGH SOK)
240/138KV TRANSFORMER AT DIDSBURY SUB. (152S) OUTAGE
TUE, MAR 01 2011 16:21

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RED DEER REGION STUDY
2012 S3_SOK_PK (2012 SUMMER PEAK CASE)

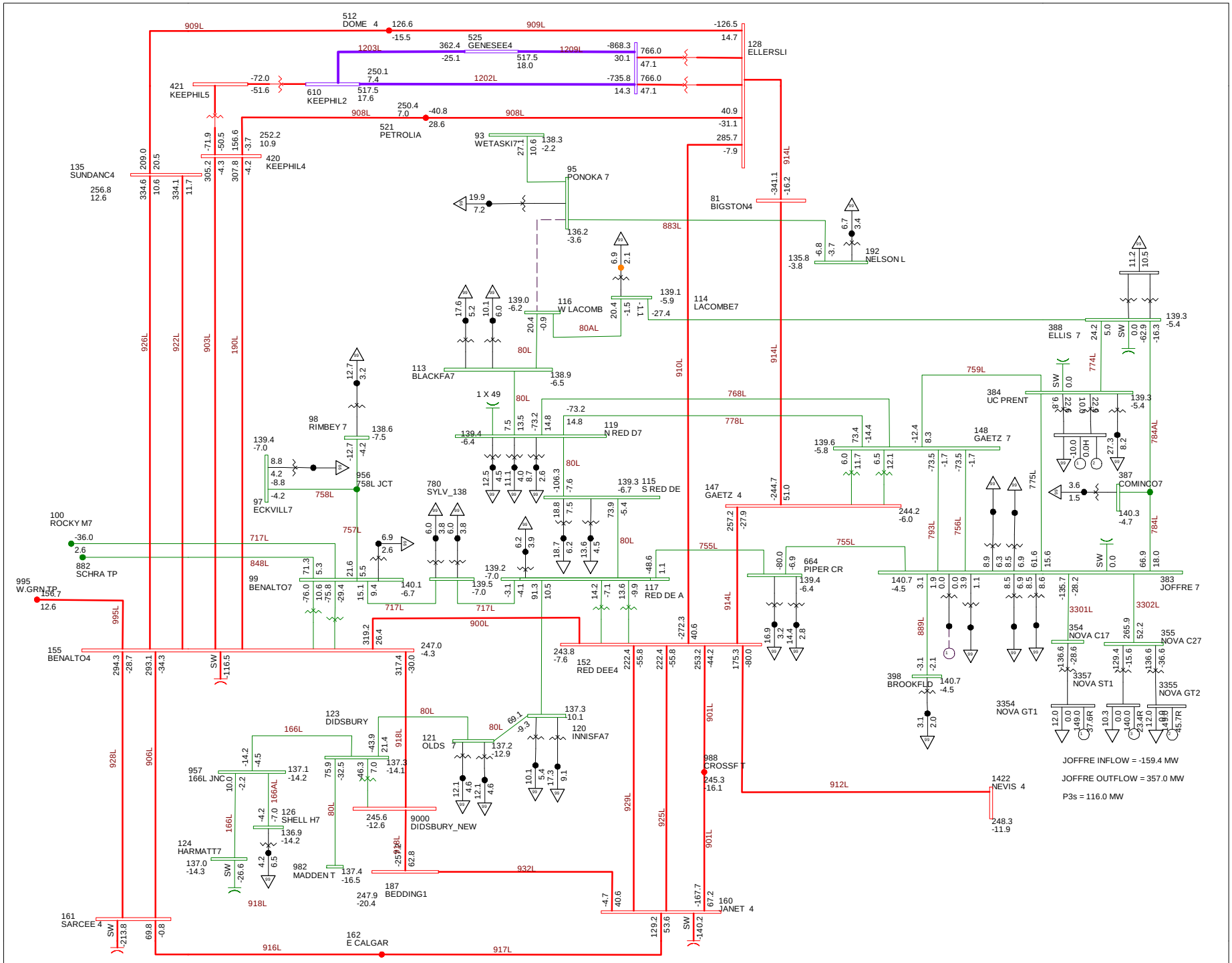
FIG 2012-ALT1-LOAD-SP-24(HIGH SOK)
138 KV 716L (PONOKA 331S TO WETASKIWIN 40S) OUTAGE
TUE, MAR 01 2011 16:21

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR

100.0%RATEA

1.0/BOV 0.900/UV <=72.000 <=138.000 <=500.000 >500.000
KV: <=1.000 <=34.500 <=240.000

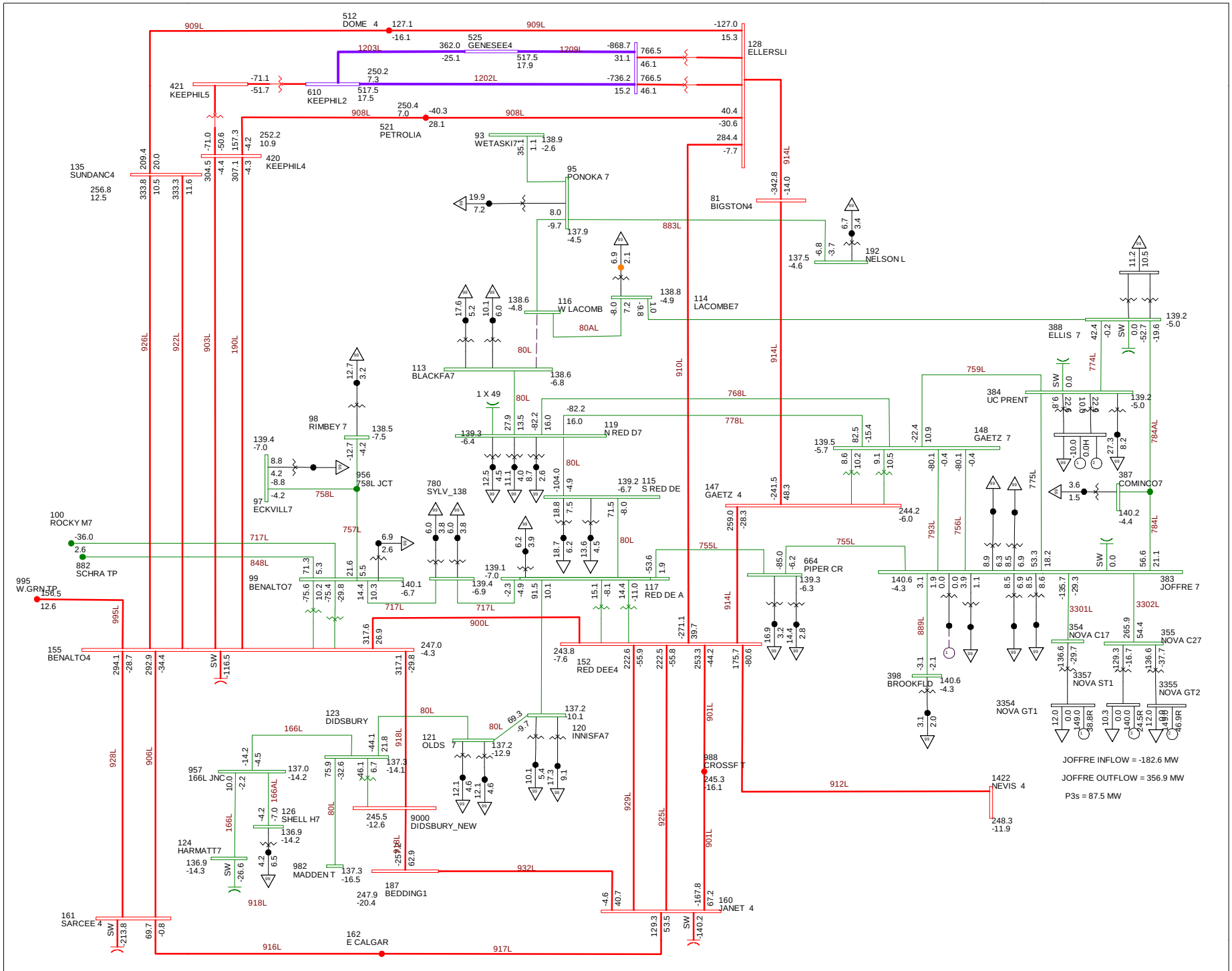
D-2012-184



RED DEER REGION STUDY
2012 S3_SOK_PK (2012 SUMMER PEAK CASE)

FIG 2012-ALT1-LOAD-SP-25(HIGH SOK)
138 KV 80L (PONOKA 331S TO W. LACOMBE 958S) OUTAGE
TUE, MAR 01 2011 16:21

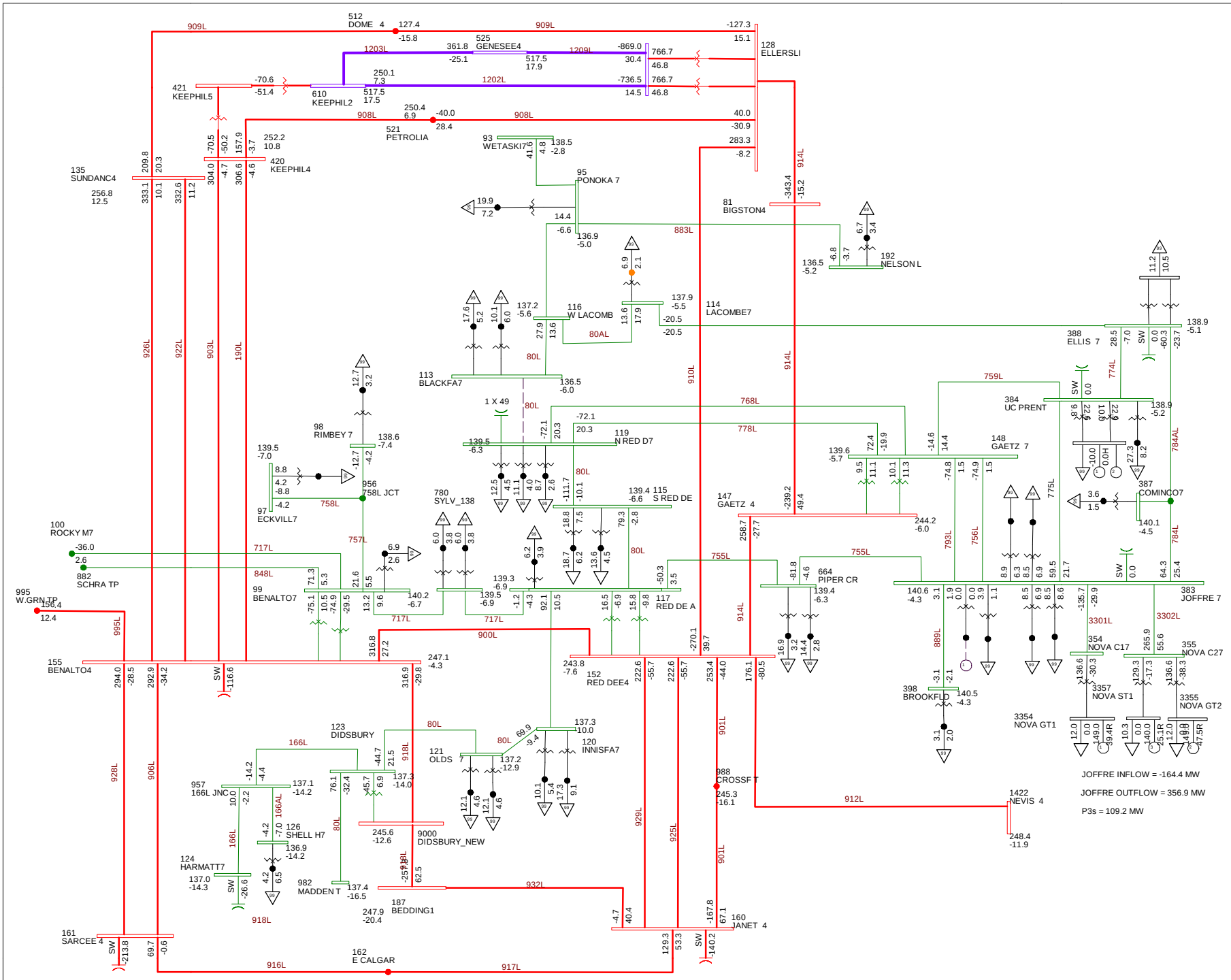
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RED DEER REGION STUDY
2012 S3_SOK_PK (2012 SUMMER PEAK CASE)

FIG 2012-ALT1-LOAD-SP-26(HIGH SOK)
138 KV 80L (W. LACOMBE 958S TO BLACKFALDS 198S) OUTAGE
TUE, MAR 01 2011 16:21

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RED DEER REGION STUDY
2012 S3_SOK_PK (2012 SUMMER PEAK CASE)

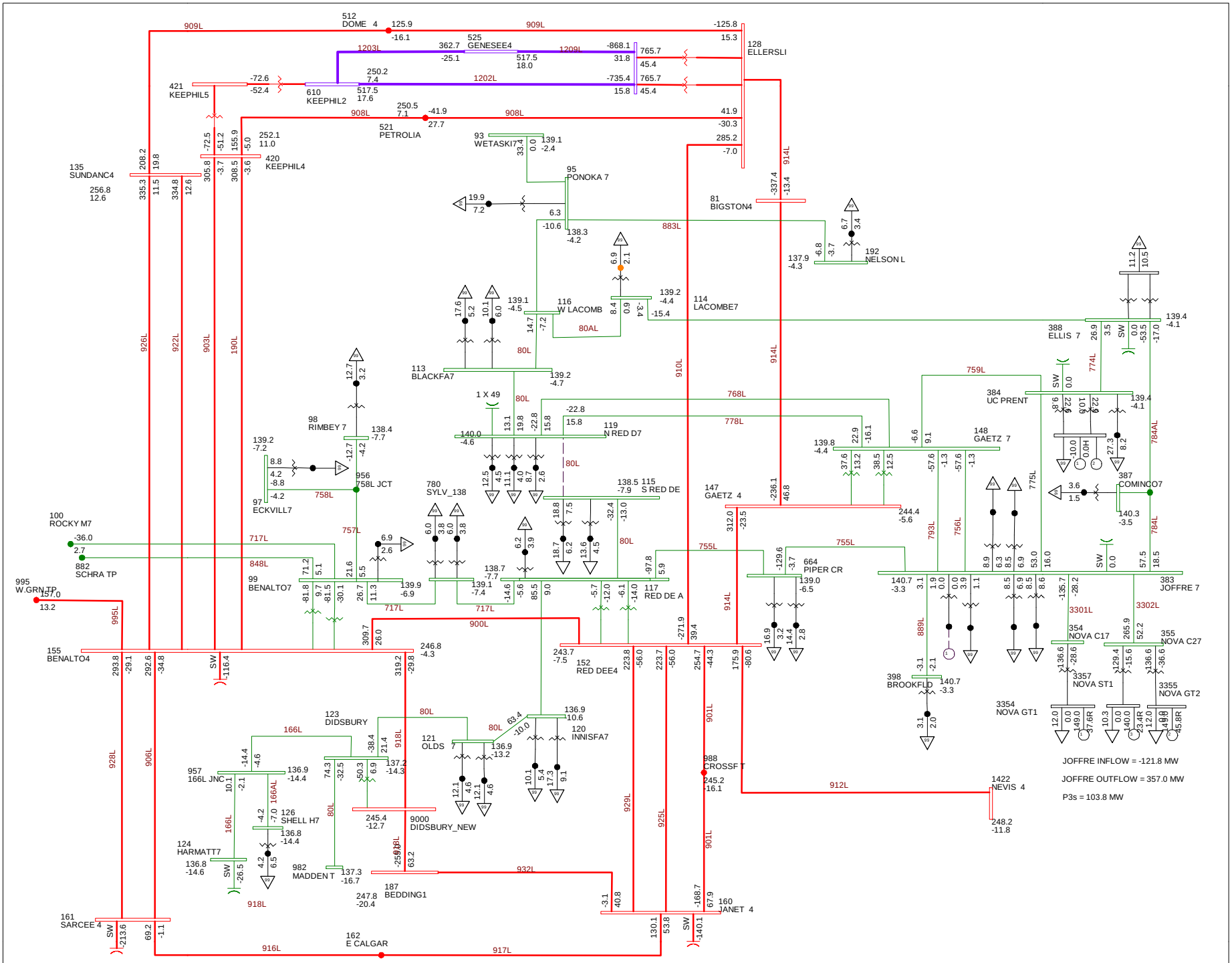
FIG 2012-ALT1-LOAD-SP-27(HIGH SOK)
138 KV 80L (BLACKFALDS 198S TO N. RED DEER 217S) OUTAGE
TUE, MAR 01 2011 16:22

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR

100.0%RATEA

1.000GV 0.900UV <=72.000 <=138.000 <=500.000 >500.000
KV: <=1.000 <=34.500 <=240.000

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RED DEER REGION STUDY
2012 S3_SOK_PK (2012 SUMMER PEAK CASE)

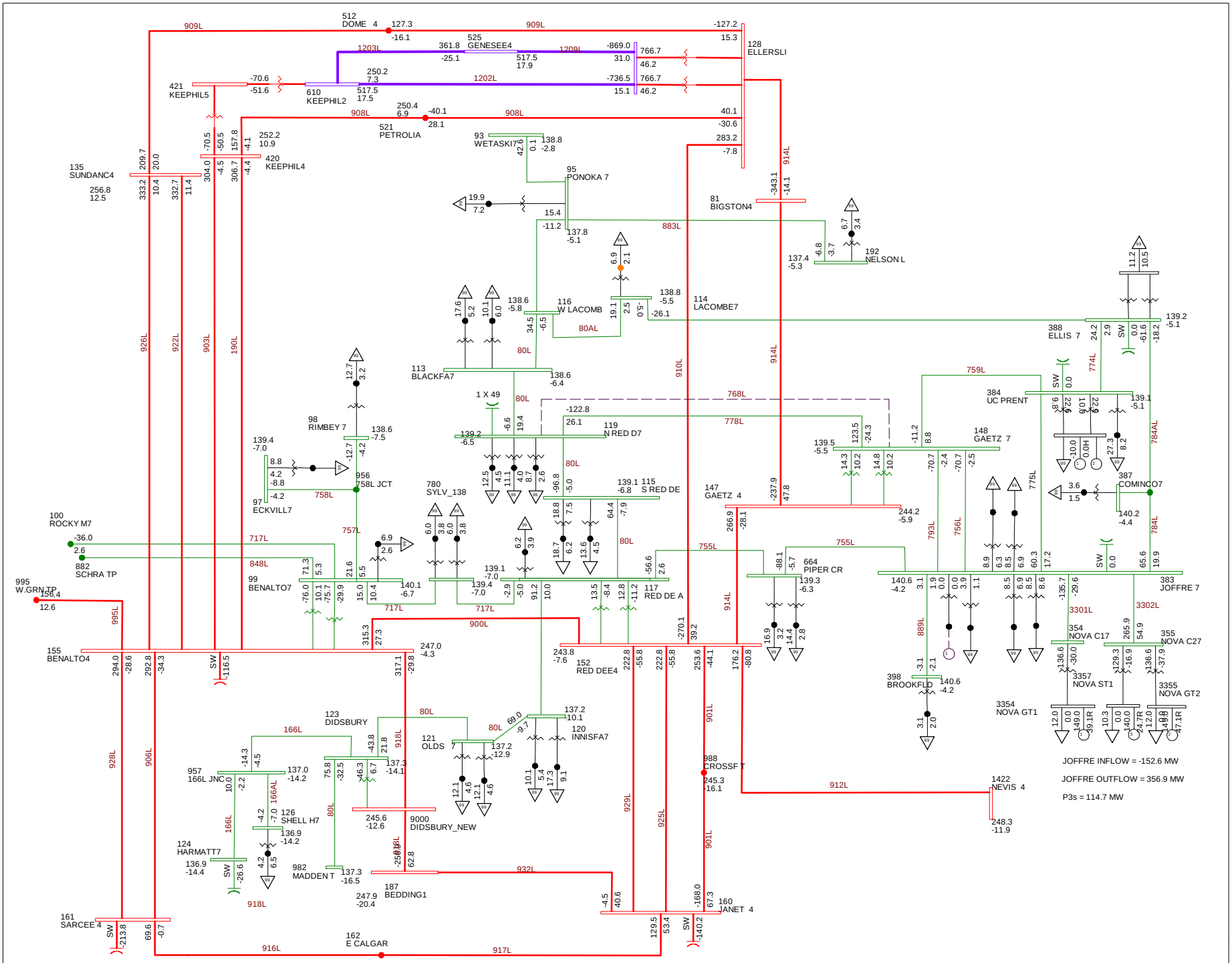
FIG 2012-ALT1-LOAD-SP-28(HIGH SOK)
138 KV 80L (N. RED DEER 217S TO S. RED DEER 194S) OUTAGE
TUE, MAR 01 2011 16:22

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR

100.0%RATEA

1.000PU 0.900UV | <=72.000 | <=138.000 | <=500.000 | >500.000
KV: <=1.000 | <=34.500 | <=240.000

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RED DEER REGION STUDY
2012 S3_SOK_PK (2012 SUMMER PEAK CASE)

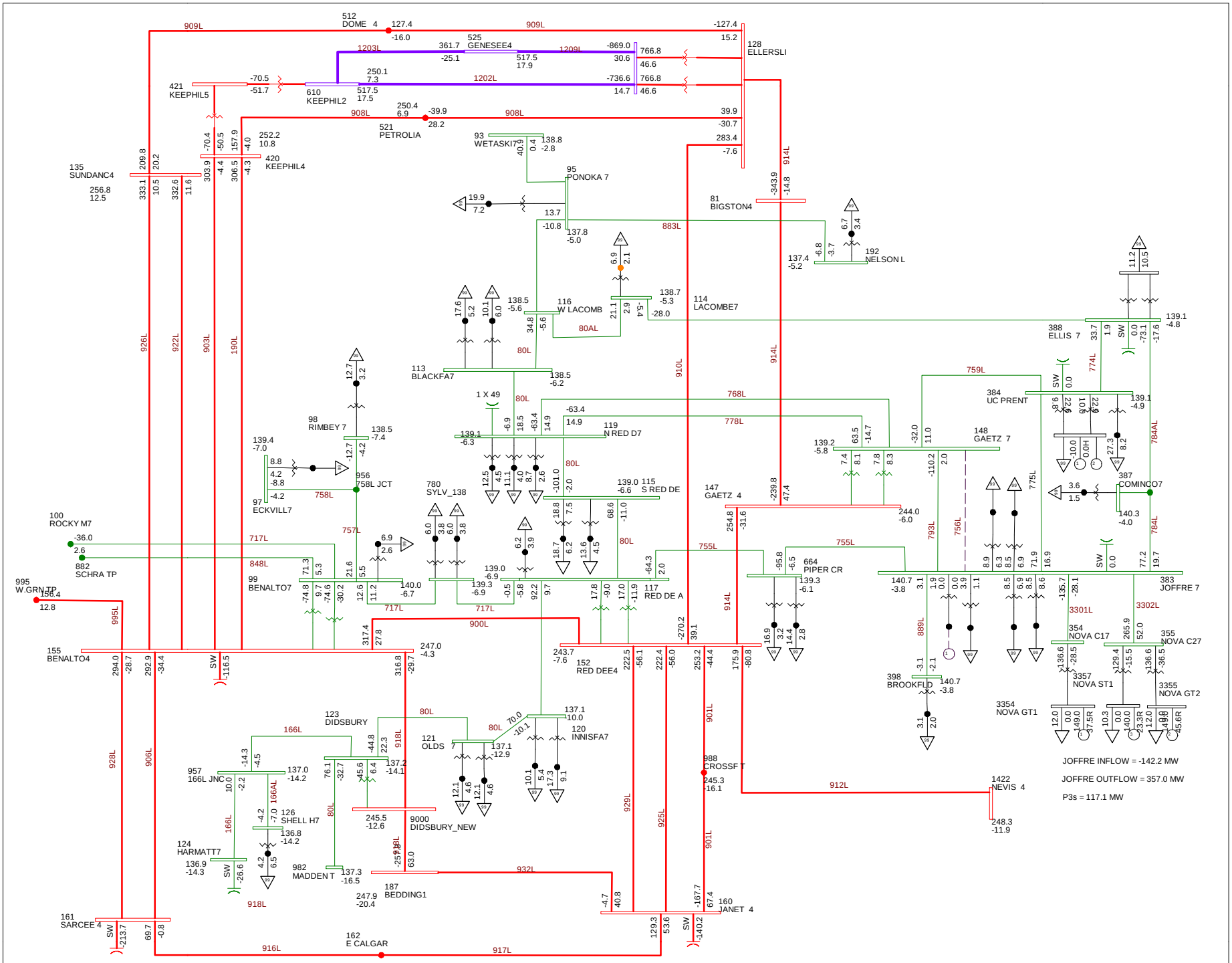
FIG 2012-ALT1-LOAD-SP-29(HIGH SOK)
138 KV 768L (N. RED DEER 217S TO GAETZ 87S) OUTAGE
TUE, MAR 01 2011 16:22

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR

100.0%RATEA

1.0BKV 0.900UV <=72.000 <=138.000 <=500.000 >500.000
KV: <=1.000 <=34.500 <=240.000

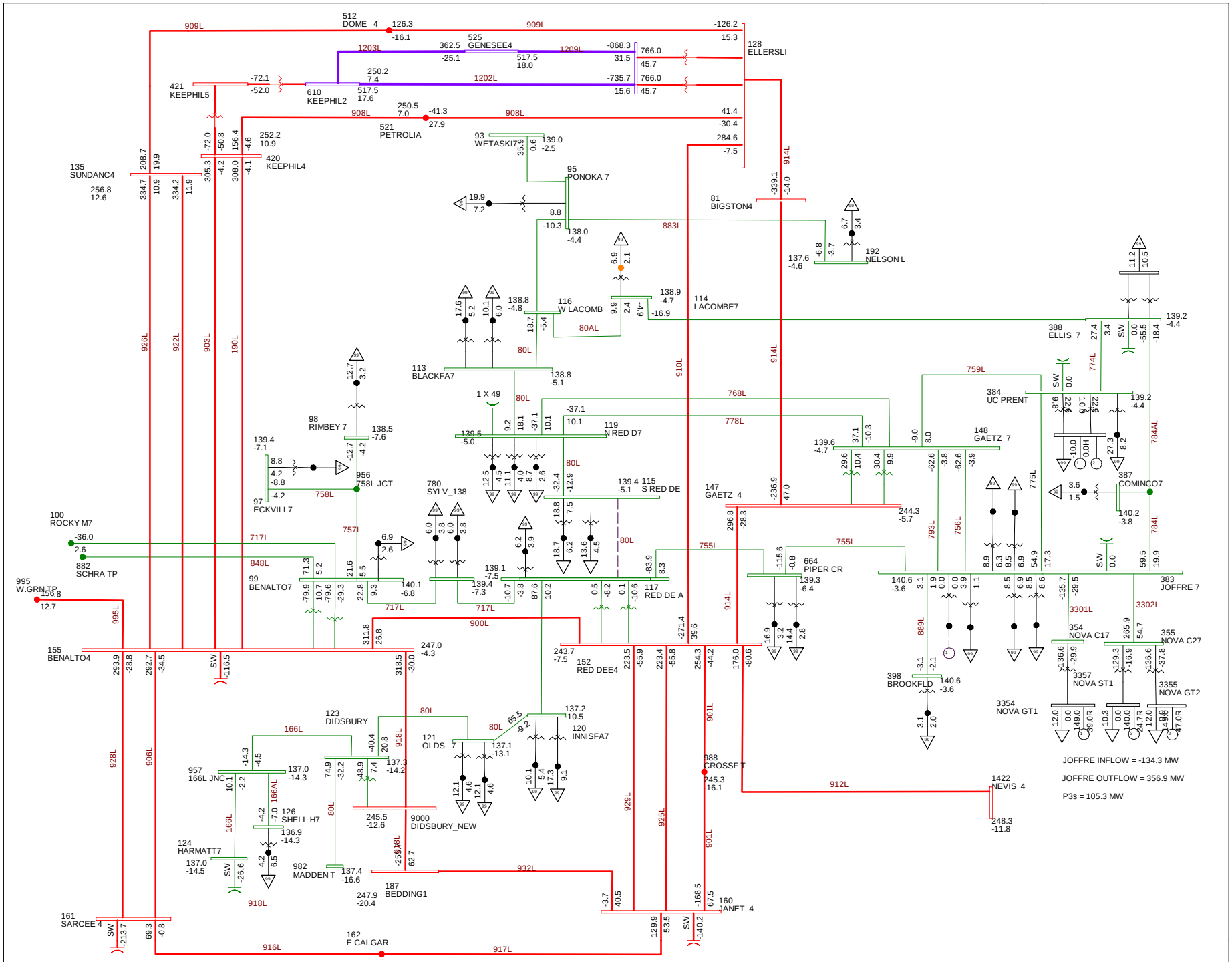
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RED DEER REGION STUDY
2012 S3_SOK_PK (2012 SUMMER PEAK CASE)

FIG 2012-ALT1-LOAD-SP-30(HIGH SOK)
138 KV 793/756L (GAETZ 87S TO JOFFRE 535S) OUTAGE
TUE, MAR 01 2011 16:22

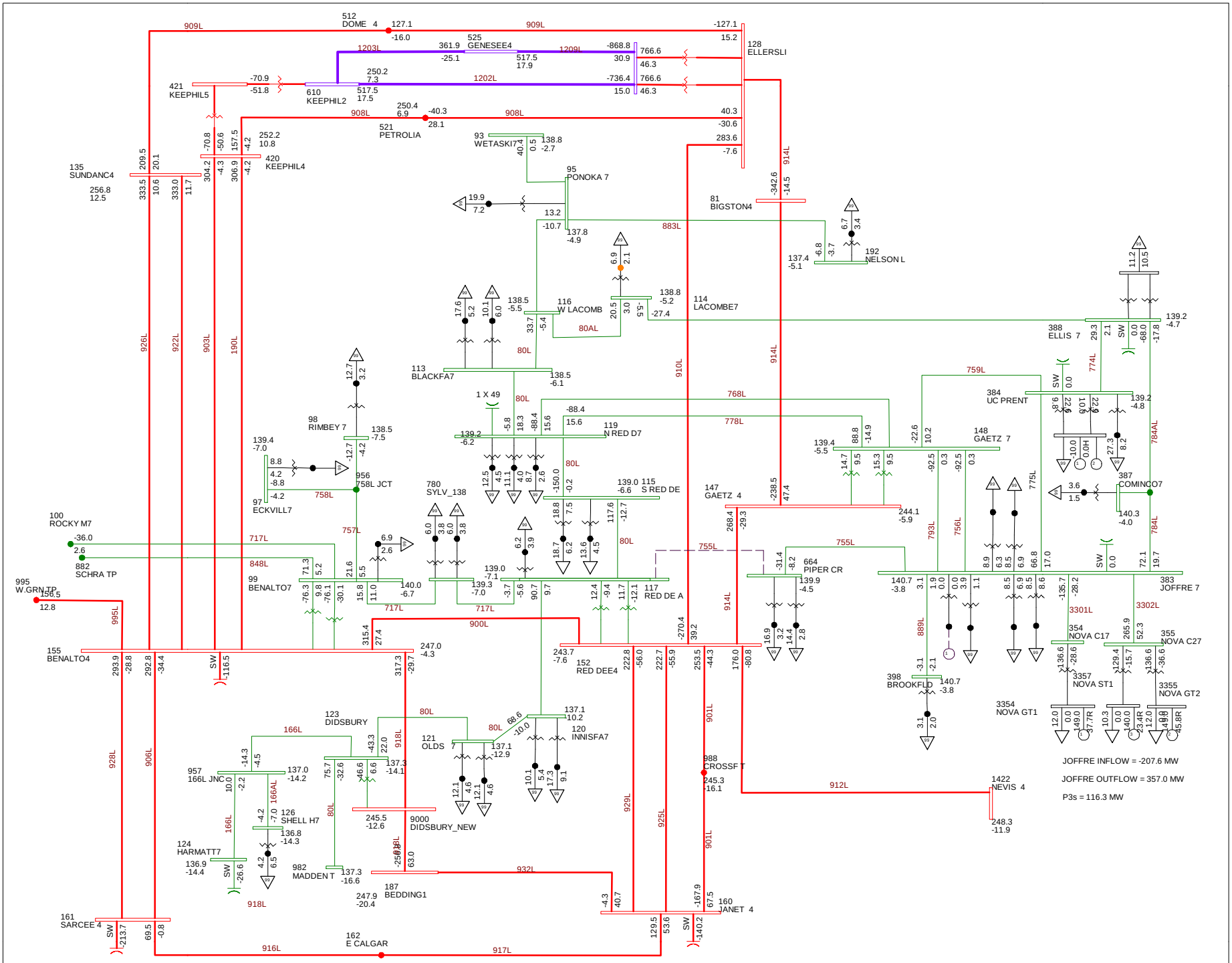
D-2012-190



RED DEER REGION STUDY
2012 S3_SOK_PK (2012 SUMMER PEAK CASE)

FIG 2012-ALT1-LOAD-SP-31(HIGH SOK)
138 KV 80L (S. RED DEER 194S TO RED DEER 63S) OUTAGE
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RED DEER REGION STUDY
2012 S3_SOK_PK (2012 SUMMER PEAK CASE)

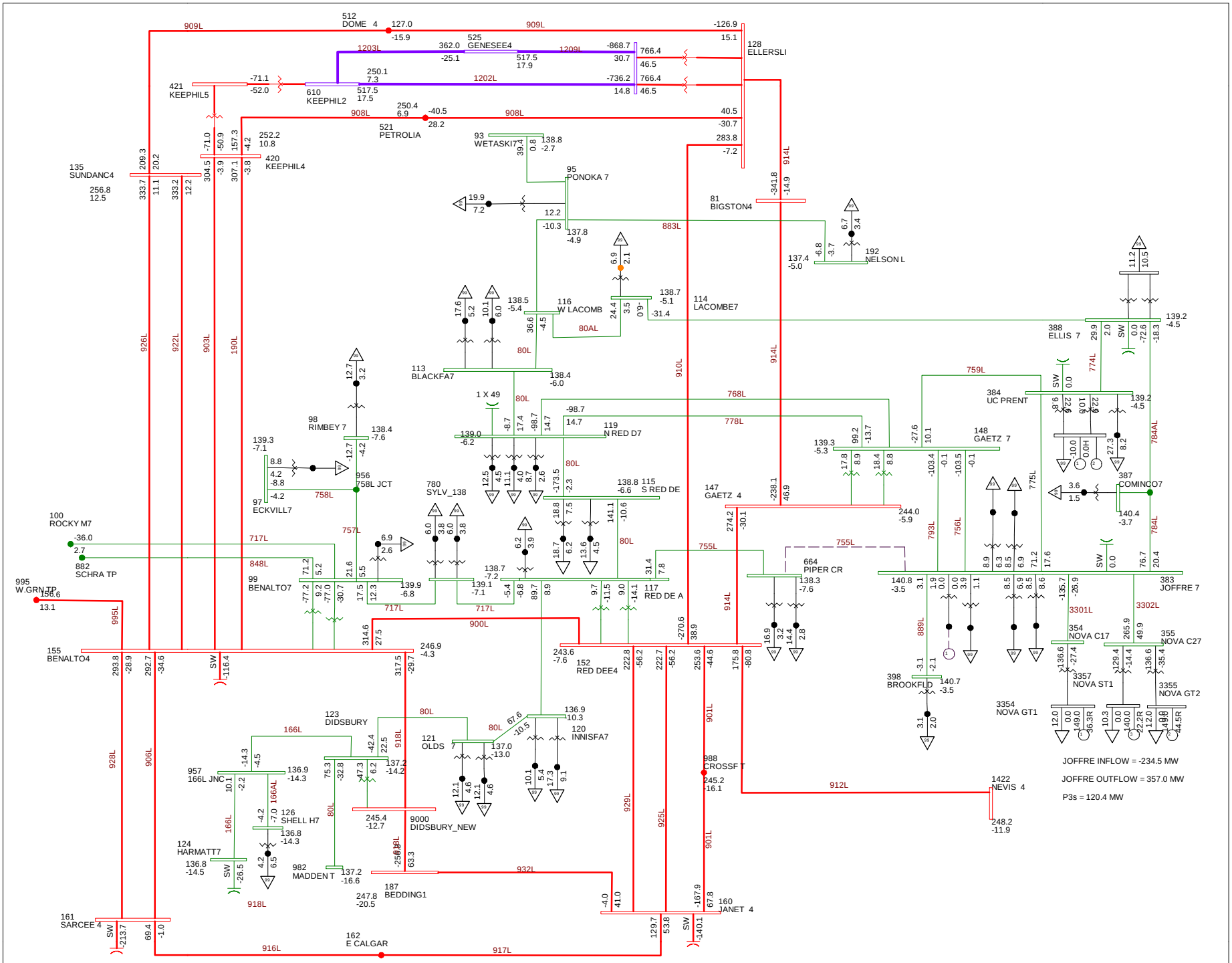
FIG 2012-ALT1-LOAD-SP-32(HIGH SOK)
138 KV 755L (RED DEER 63S TO PIPER CREEK 247S) OUTAGE
TUE, MAR 01 2011 16:22

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR

100.0%RATEA

1.000ON 0.900UV <=72.000 <=138.000 <=500.000 >500.000
KV: <=1.000 <=34.500 <=240.000

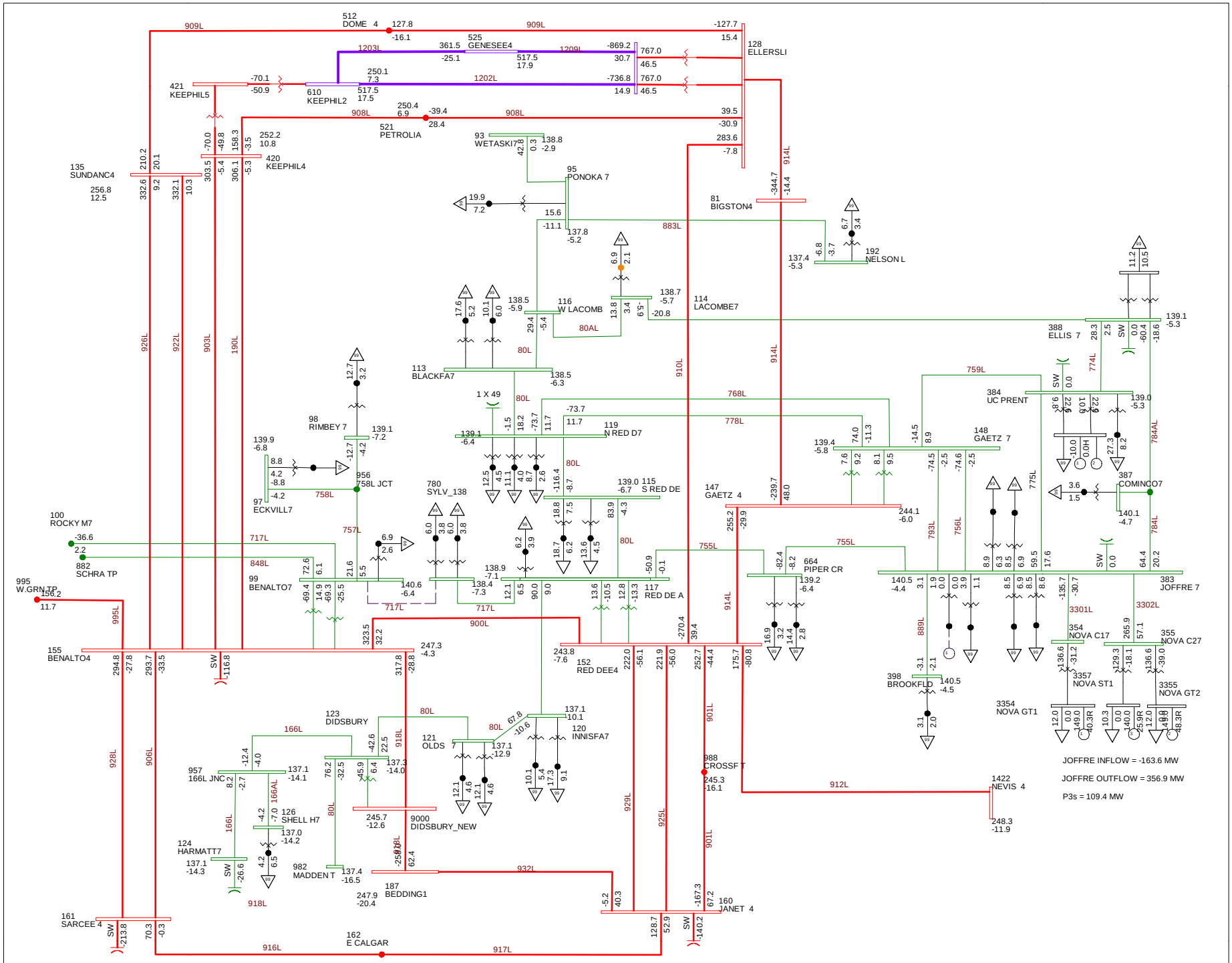
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RED DEER REGION STUDY
2012 S3_SOK_PK (2012 SUMMER PEAK CASE)

FIG 2012-ALT1-LOAD-SP-33(HIGH SOK)
138 KV 755L (JOFFRE 535S TO PIPER CREEK 247S) OUTAGE
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RED DEER REGION STUDY
2012 S3_SOK_PK (2012 SUMMER PEAK CASE)

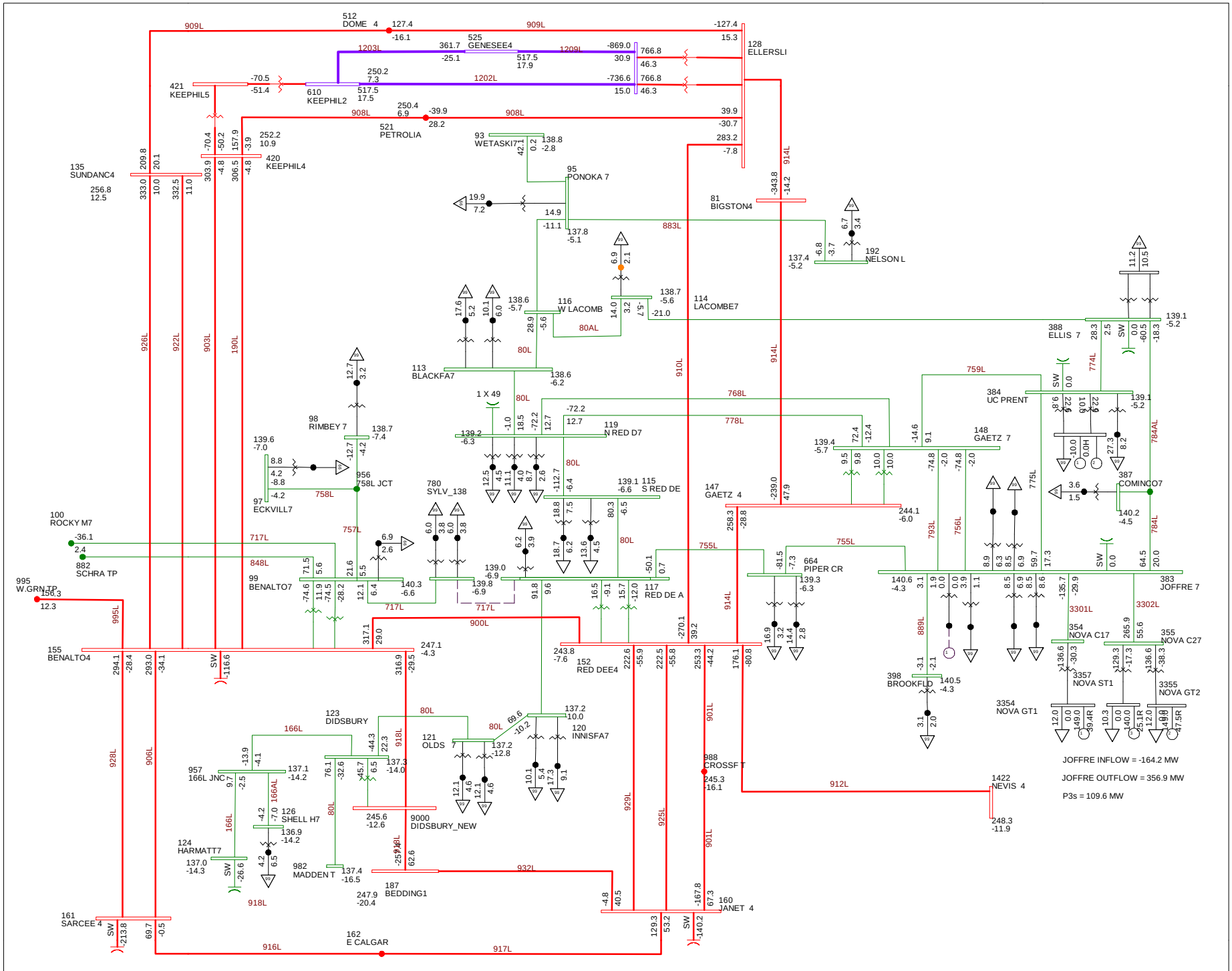
FIG 2012-ALT1-LOAD-SP-34(HIGH SOK)
138 KV 717L (BENALTO 17S TO SYLVAN LAKE 580S) OUTAGE
TUE, MAR 01 2011 16:22

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR

100.0%RATEA

1.000PU 0.900UV <=72.000 <=138.000 <=500.000 >500.000
KV: <=1.000 <=34.500 <=240.000

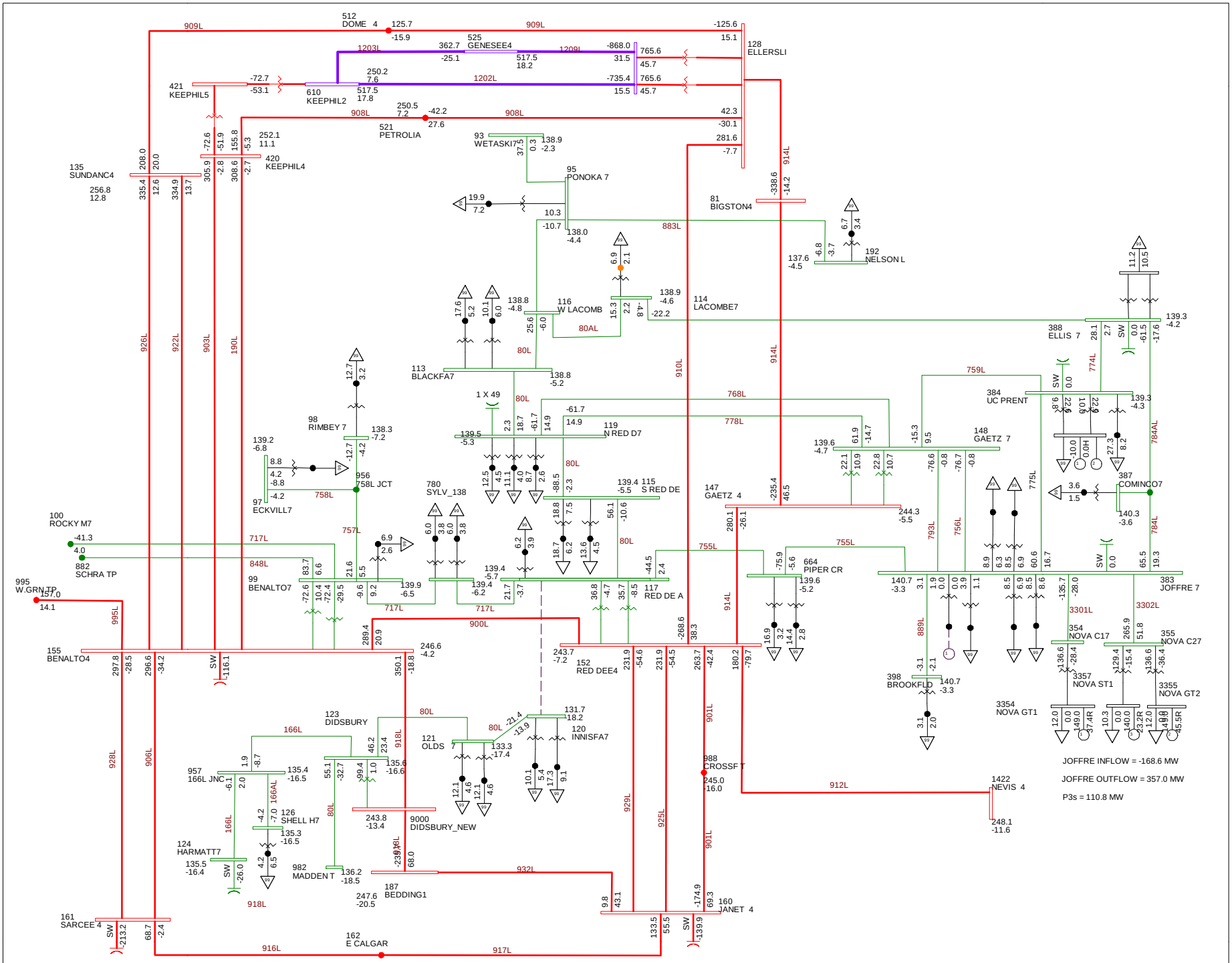
D-2012-194



RED DEER REGION STUDY
2012 S3_SOK_PK (2012 SUMMER PEAK CASE)

FIG 2012-ALT1-LOAD-SP-35(HIGH SOK)
138 KV 717L (RED DEER 63S TO SYLVAN LAKE 580S) OUTAGE
TUE, MAR 01 2011 16:22

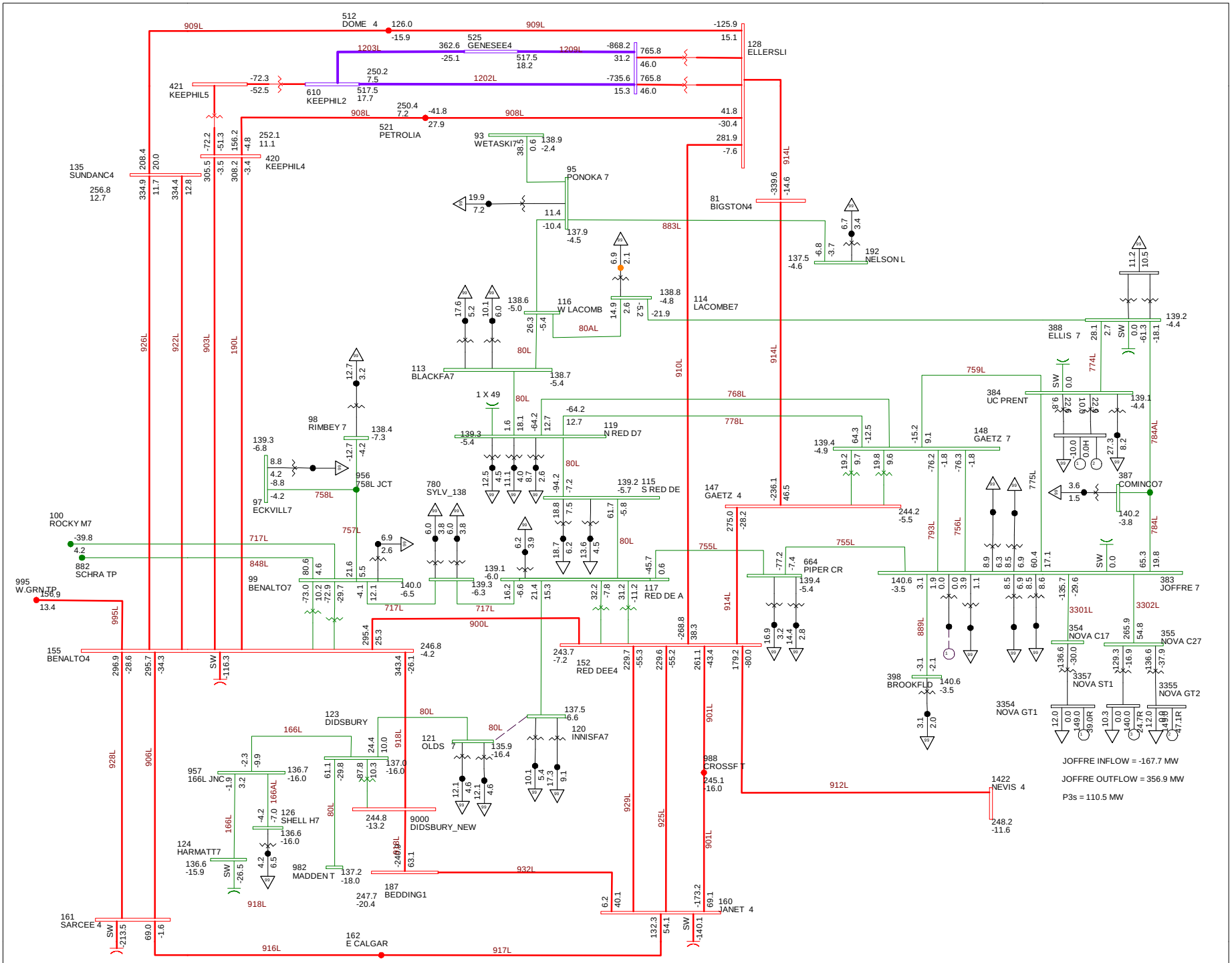
D-2012-195



RED DEER REGION STUDY
2012 S3_SOK_PK (2012 SUMMER PEAK CASE)

FIG 2012-ALT1-LOAD-SP-36(HIGH SOK)
138 KV 80L (RED DEER 63S TO INNISFAIL 214S) OUTAGE
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RED DEER REGION STUDY
2012 S3_SOK_PK (2012 SUMMER PEAK CASE)

FIG 2012-ALT1-LOAD-SP-37(HIGH SOK)
138 KV 80L (INNISFAIL 214S TO OLDS 55S) OUTAGE
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Table D-2012-4: Summary of 2012 Load Adequacy Power Flow Analysis - Alternative 2

Figure No.	Contingency	Overloaded Element	Percent Overload	Other System Performance Concerns
Winter Peak				
Fig 2012-Alt2-Load-WP-1	AIES Generation Dispatch	N/A	N/A	N/A
Fig 2012-Alt2-Load-WP-2	All Elements in Service	None	N/A	None
Fig 2012-Alt2-Load-WP-3	500kV 1202L (Ellerslie 89S to Keephills 320P)	None	N/A	None
Fig 2012-Alt2-Load-WP-4	500kV 1209L (Ellerslie 89S to Genesee E330P)	None	N/A	None
Fig 2012-Alt2-Load-WP-5	500kV 1203L (Genesee E330P to Keephills 320P)	None	N/A	None
Fig 2012-Alt2-Load-WP-6	240kV 914L (Ellerslie 89S to Bigstone 86S)	None	N/A	None
Fig 2012-Alt2-Load-WP-7	240kV 914L (Bigstone 86S to Gaetz 87S)	None	N/A	None
Fig 2012-Alt2-Load-WP-8	240kV 910L (Ellerslie 89S to Ponoka 331S)	None	N/A	None
Fig 2012-Alt2-Load-WP-9	240kV 910L (Ponoka 331S to Red Deer 63S)	None	N/A	None
Fig 2012-Alt2-Load-WP-10	240kV 914L (Gaetz 87S to Red Deer 63S)	None	N/A	None
Fig 2012-Alt2-Load-WP-11	240kV 900L (Red Deer 63S to Benalto 17S)	None	N/A	None
Fig 2012-Alt2-Load-WP-12	240kV 925L (Red Deer 63S to Janet 74S)	None	N/A	None
Fig 2012-Alt2-Load-WP-13	240kV 901L (Red Deer 63S to Crossfield 64S)	None	N/A	None
Fig 2012-Alt2-Load-WP-14	240kV 912L (Red Deer 63S to Nevis 766S)	None	N/A	None
Fig 2012-Alt2-Load-WP-15	240 kV 926/922L (Sundance 310P to Benalto 17S)	None	N/A	None
Fig 2012-Alt2-Load-WP-16	240kV 190/903L (Keephills 320P to Benalto 17S)	None	N/A	None
Fig 2012-Alt2-Load-WP-17	240 kV 995L (Amoco Willesden Green 68S to Benalto 17S)	None	N/A	None
Fig 2012-Alt2-Load-WP-18	240 kV 906/928L (Benalto 17S to Sarcee 42S)	None	N/A	None
Fig 2012-Alt2-Load-WP-19	240 kV 918L (Benalto 17S to Didsbury Sub. (152S)	None	N/A	None
Fig 2012-Alt2-Load-WP-20	240 kV 918L (Didsbury Sub. (152S) to Beddington 162S)	None	N/A	None
Fig 2012-Alt2-Load-WP-21	240 kV 929L (Red Deer 63S to Innisfail 214S)	None	N/A	None
Fig 2012-Alt2-Load-WP-22	240 kV 929L (Innisfail 214S to Janet 74S)	None	N/A	None
Fig 2012-Alt2-Load-WP-23	240/138kV Transformer at Ponoka 313S	None	N/A	None
Fig 2012-Alt2-Load-WP-24	240/138kV Transformer at Gaetz 87S	None	N/A	None
Fig 2012-Alt2-Load-WP-25	240/138kV Transformer at Red Deer 63S	None	N/A	None
Fig 2012-Alt2-Load-WP-26	240/138kV Transformer at Benalto 17S	None	N/A	None
Fig 2012-Alt2-Load-WP-27	240/138kV Transformer at Didsbury Sub. (152S)	None	N/A	None

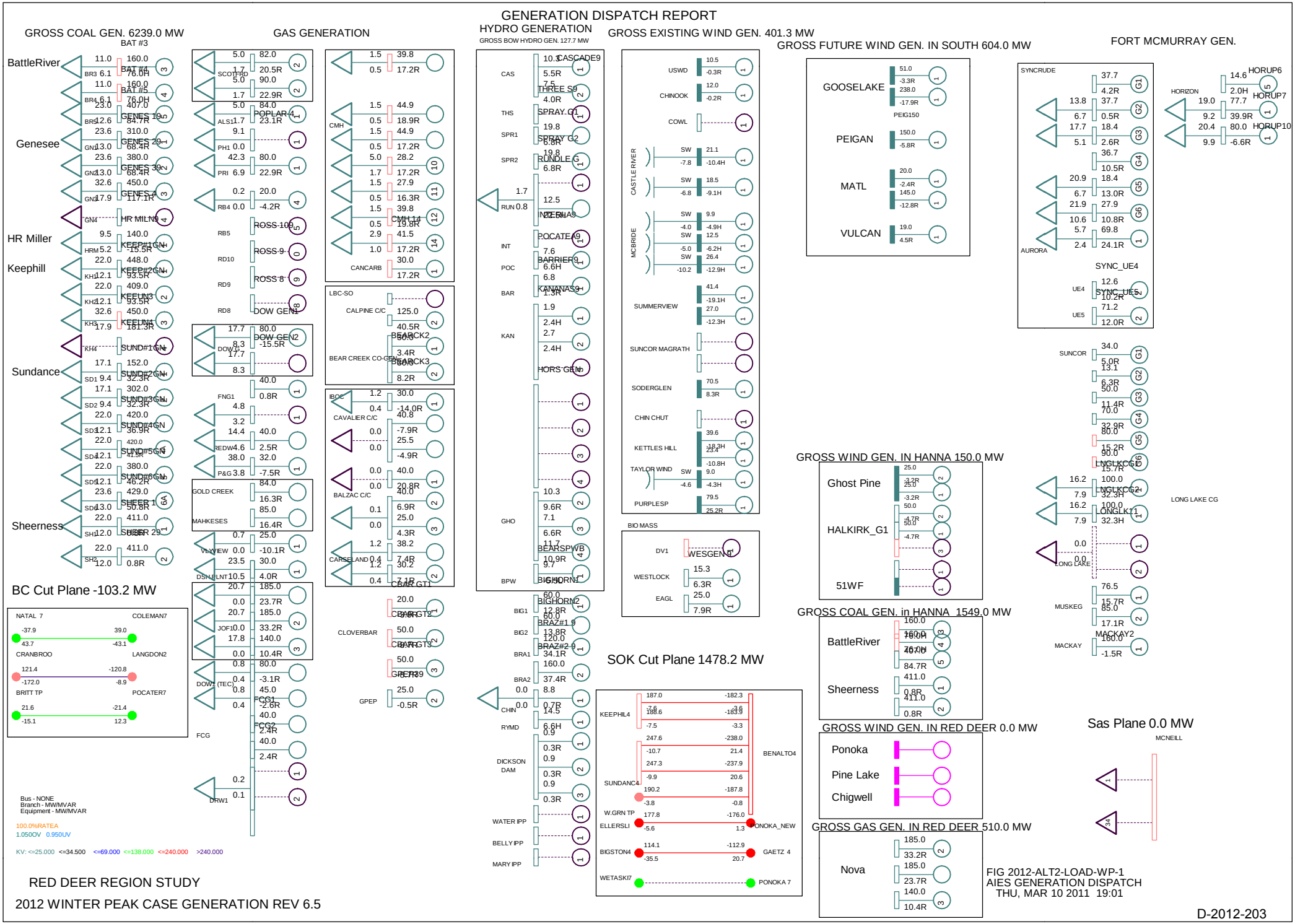
Figure No.	Contingency	Overloaded Element	Percent Overload	Other System Performance Concerns
Fig 2012-Alt2-Load-WP-28	240/138kV Transformer at Innisfail 214S	None	N/A	None
Fig 2012-Alt2-Load-WP-29	138 kV 80L (W. Lacombe 958S to Blackfalds 198S)	None	N/A	None
Fig 2012-Alt2-Load-WP-30	138 kV 80L (Blackfalds 198S to N. Red Deer 217S)	None	N/A	None
Fig 2012-Alt2-Load-WP-31	138 kV 80L (N. Red Deer 217S to S. Red Deer 194S)	None	N/A	None
Fig 2012-Alt2-Load-WP-32	138 kV 768L (N. Red Deer 217S to Gaetz 87S)	None	N/A	None
Fig 2012-Alt2-Load-WP-33	138 kV 793/756L (Gaetz 87S to Joffre 535S)	None	N/A	None
Fig 2012-Alt2-Load-WP-34	138 kV 80L (S. Red Deer 194S to Red Deer 63S)	None	N/A	None
Fig 2012-Alt2-Load-WP-35	138 kV 755L (Red Deer 63S to Piper Creek 247S)	None	N/A	None
Fig 2012-Alt2-Load-WP-36	138 kV 755L (Joffre 535S to Piper Creek 247S)	None	N/A	None
Fig 2012-Alt2-Load-WP-37	138 kV 717L (Benalto 17S to Sylvan Lake 580S)	None	N/A	None
Fig 2012-Alt2-Load-WP-38	138 kV 717L (Red Deer 63S to Sylvan Lake 580S)	None	N/A	None
Fig 2012-Alt2-Load-WP-39	138 kV 80L (Innisfail 214S To Olds 55S)	None	N/A	None
Summer Peak				
Fig 2012-Alt2-Load-SP-1	AIES Generation Dispatch	N/A	N/A	N/A
Fig 2012-Alt2-Load-SP-2	All Elements in Service	None	N/A	None
Fig 2012-Alt2-Load-SP-3	500kV 1202L (Ellerslie 89S to Keephills 320P)	None	N/A	None
Fig 2012-Alt2-Load-SP-4	500kV 1209L (Ellerslie 89S to Genesee E330P)	None	N/A	None
Fig 2012-Alt2-Load-SP-5	500kV 1203L (Genesee E330P to Keephills 320P)	None	N/A	None
Fig 2012-Alt2-Load-SP-6	240kV 914L (Ellerslie 89S to Bigstone 86S)	None	N/A	None
Fig 2012-Alt2-Load-SP-7	240kV 914L (Bigstone 86S to Gaetz 87S)	None	N/A	None
Fig 2012-Alt2-Load-SP-8	240kV 910L (Ellerslie 89S to Ponoka 331S)	None	N/A	None
Fig 2012-Alt2-Load-SP-9	240kV 910L (Ponoka 331S to Red Deer 63S)	None	N/A	None
Fig 2012-Alt2-Load-SP-10	240kV 914L (Gaetz 87S to Red Deer 63S)	None	N/A	None
Fig 2012-Alt2-Load-SP-11	240kV 900L (Red Deer 63S to Benalto 17S)	None	N/A	None
Fig 2012-Alt2-Load-SP-12	240kV 925L (Red Deer 63S to Janet 74S)	None	N/A	None
Fig 2012-Alt2-Load-SP-13	240kV 901L (Red Deer 63S to Crossfield 64S)	None	N/A	None
Fig 2012-Alt2-Load-SP-14	240kV 912L (Red Deer 63S to Nevis 766S)	None	N/A	None
Fig 2012-Alt2-Load-SP-15	240 kV 926/922L (Sundance 310P to Benalto 17S)	None	N/A	None
Fig 2012-Alt2-Load-SP-16	240kV 190/903L (Keephills 320P to Benalto 17S)	None	N/A	None

Figure No.	Contingency	Overloaded Element	Percent Overload	Other System Performance Concerns
Fig 2012-Alt2-Load-SP-17	240 kV 995L (Amoco Willesden Green 68S to Benalto 17S)	None	N/A	None
Fig 2012-Alt2-Load-SP-18	240 kV 906/928L (Benalto 17S to Sarcee 42S)	None	N/A	None
Fig 2012-Alt2-Load-SP-19	240 kV 918L (Benalto 17S to Didsbury Sub. (152S)	None	N/A	None
Fig 2012-Alt2-Load-SP-20	240 kV 918L (Didsbury Sub. (152S) to Beddington 162S)	None	N/A	None
Fig 2012-Alt2-Load-SP-21	240 kV 929L (Red Deer 63S to Innisfail 214S)	None	N/A	None
Fig 2012-Alt2-Load-SP-22	240 kV 929L (Innisfail 214S to Janet 74S)	None	N/A	None
Fig 2012-Alt2-Load-SP-23	240/138kV Transformer at Ponoka 313S	None	N/A	None
Fig 2012-Alt2-Load-SP-24	240/138kV Transformer at Gaetz 87S	None	N/A	None
Fig 2012-Alt2-Load-SP-25	240/138kV Transformer at Red Deer 63S	None	N/A	None
Fig 2012-Alt2-Load-SP-26	240/138kV Transformer at Benalto 17S	None	N/A	None
Fig 2012-Alt2-Load-SP-27	240/138kV Transformer at Didsbury Sub. (152S)	None	N/A	None
Fig 2012-Alt2-Load-SP-28	240/138kV Transformer at Innisfail 214S	None	N/A	None
Fig 2012-Alt2-Load-SP-29	138 kV 80L (W. Lacombe 958S to Blackfalds 198S)	None	N/A	None
Fig 2012-Alt2-Load-SP-30	138 kV 80L (Blackfalds 198S to N. Red Deer 217S)	None	N/A	None
Fig 2012-Alt2-Load-SP-31	138 kV 80L (N. Red Deer 217S to S. Red Deer 194S)	None	N/A	None
Fig 2012-Alt2-Load-SP-32	138 kV 768L (N. Red Deer 217S to Gaetz 87S)	None	N/A	None
Fig 2012-Alt2-Load-SP-33	138 kV 793/756L (Gaetz 87S to Joffre 535S)	None	N/A	None
Fig 2012-Alt2-Load-SP-34	138 kV 80L (S. Red Deer 194S to Red Deer 63S)	None	N/A	None
Fig 2012-Alt2-Load-SP-35	138 kV 755L (Red Deer 63S to Piper Creek 247S)	None	N/A	None
Fig 2012-Alt2-Load-SP-36	138 kV 755L (Joffre 535S to Piper Creek 247S)	None	N/A	None
Fig 2012-Alt2-Load-SP-37	138 kV 717L (Benalto 17S to Sylvan Lake 580S)	None	N/A	None
Fig 2012-Alt2-Load-SP-38	138 kV 717L (Red Deer 63S to Sylvan Lake 580S)	None	N/A	None
Fig 2012-Alt2-Load-SP-39	138 kV 80L (Innisfail 214S To Olds 55S)	None	N/A	None
Summer Light				
Fig 2012-Alt2-Load-SL-1	AIES Generation Dispatch	N/A	N/A	N/A
Fig 2012-Alt2-Load-SL-2	All Elements in Service	None	N/A	None
Fig 2012-Alt2-Load-SL-3	500kV 1202L (Ellerslie 89S to Keephills 320P)	None	N/A	None
Fig 2012-Alt2-Load-SL-4	500kV 1209L (Ellerslie 89S to Genesee E330P)	None	N/A	None
Fig 2012-Alt2-Load-SL-5	500kV 1203L (Genesee E330P to Keephills 320P)	None	N/A	None

Figure No.	Contingency	Overloaded Element	Percent Overload	Other System Performance Concerns
Fig 2012-Alt2-Load-SL-6	240kV 914L (Ellerslie 89S to Bigstone 86S)	None	N/A	None
Fig 2012-Alt2-Load-SL-7	240kV 914L (Bigstone 86S to Gaetz 87S)	None	N/A	None
Fig 2012-Alt2-Load-SL-8	240kV 910L (Ellerslie 89S to Ponoka 331S)	None	N/A	None
Fig 2012-Alt2-Load-SL-9	240kV 910L (Ponoka 331S to Red Deer 63S)	None	N/A	None
Fig 2012-Alt2-Load-SL-10	240kV 914L (Gaetz 87S to Red Deer 63S)	None	N/A	None
Fig 2012-Alt2-Load-SL-11	240kV 900L (Red Deer 63S to Benalto 17S)	None	N/A	None
Fig 2012-Alt2-Load-SL-12	240kV 925L (Red Deer 63S to Janet 74S)	None	N/A	None
Fig 2012-Alt2-Load-SL-13	240kV 901L (Red Deer 63S to Crossfield 64S)	None	N/A	None
Fig 2012-Alt2-Load-SL-14	240kV 912L (Red Deer 63S to Nevis 766S)	None	N/A	None
Fig 2012-Alt2-Load-SL-15	240 kV 926/922L (Sundance 310P to Benalto 17S)	None	N/A	None
Fig 2012-Alt2-Load-SL-16	240kV 190/903L (Keephills 320P to Benalto 17S)	None	N/A	None
Fig 2012-Alt2-Load-SL-17	240 kV 995L (Amoco Willesden Green 68S to Benalto 17S)	None	N/A	None
Fig 2012-Alt2-Load-SL-18	240 kV 906/928L (Benalto 17S to Sarcee 42S)	None	N/A	None
Fig 2012-Alt2-Load-SL-19	240 kV 918L (Benalto 17S to Didsbury Sub. (152S)	None	N/A	None
Fig 2012-Alt2-Load-SL-20	240 kV 918L (Didsbury Sub. (152S) to Beddington 162S)	None	N/A	None
Fig 2012-Alt2-Load-SL-21	240 kV 929L (Red Deer 63S to Innisfail 214S)	None	N/A	None
Fig 2012-Alt2-Load-SL-22	240 kV 929L (Innisfail 214S to Janet 74S)	None	N/A	None
Fig 2012-Alt2-Load-SL-23	240/138kV Transformer at Ponoka 313S	None	N/A	None
Fig 2012-Alt2-Load-SL-24	240/138kV Transformer at Gaetz 87S	None	N/A	None
Fig 2012-Alt2-Load-SL-25	240/138kV Transformer at Red Deer 63S	None	N/A	None
Fig 2012-Alt2-Load-SL-26	240/138kV Transformer at Benalto 17S	None	N/A	None
Fig 2012-Alt2-Load-SL-27	240/138kV Transformer at Didsbury Sub. (152S)	None	N/A	None
Fig 2012-Alt2-Load-SL-28	240/138kV Transformer at Innisfail 214S	None	N/A	None
Fig 2012-Alt2-Load-SL-29	138 kV 80L (W. Lacombe 958S to Blackfalds 198S)	None	N/A	None
Fig 2012-Alt2-Load-SL-30	138 kV 80L (Blackfalds 198S to N. Red Deer 217S)	None	N/A	None
Fig 2012-Alt2-Load-SL-31	138 kV 80L (N. Red Deer 217S to S. Red Deer 194S)	None	N/A	None
Fig 2012-Alt2-Load-SL-32	138 kV 768L (N. Red Deer 217S to Gaetz 87S)	None	N/A	None
Fig 2012-Alt2-Load-SL-33	138 kV 793/756L (Gaetz 87S to Joffre 535S)	None	N/A	None

Figure No.	Contingency	Overloaded Element	Percent Overload	Other System Performance Concerns
Fig 2012-Alt2-Load-SL-34	138 kV 80L (S. Red Deer 194S to Red Deer 63S)	None	N/A	None
Fig 2012-Alt2-Load-SL-35	138 kV 755L (Red Deer 63S to Piper Creek 247S)	None	N/A	None
Fig 2012-Alt2-Load-SL-36	138 kV 755L (Joffre 535S to Piper Creek 247S)	None	N/A	None
Fig 2012-Alt2-Load-SL-37	138 kV 717L (Benalto 17S to Sylvan Lake 580S)	None	N/A	None
Fig 2012-Alt2-Load-SL-38	138 kV 717L (Red Deer 63S to Sylvan Lake 580S)	None	N/A	None
Fig 2012-Alt2-Load-SL-39	138 kV 80L (Innisfail 214S To Olds 55S)	None	N/A	None

GENERATION DISPATCH REPORT

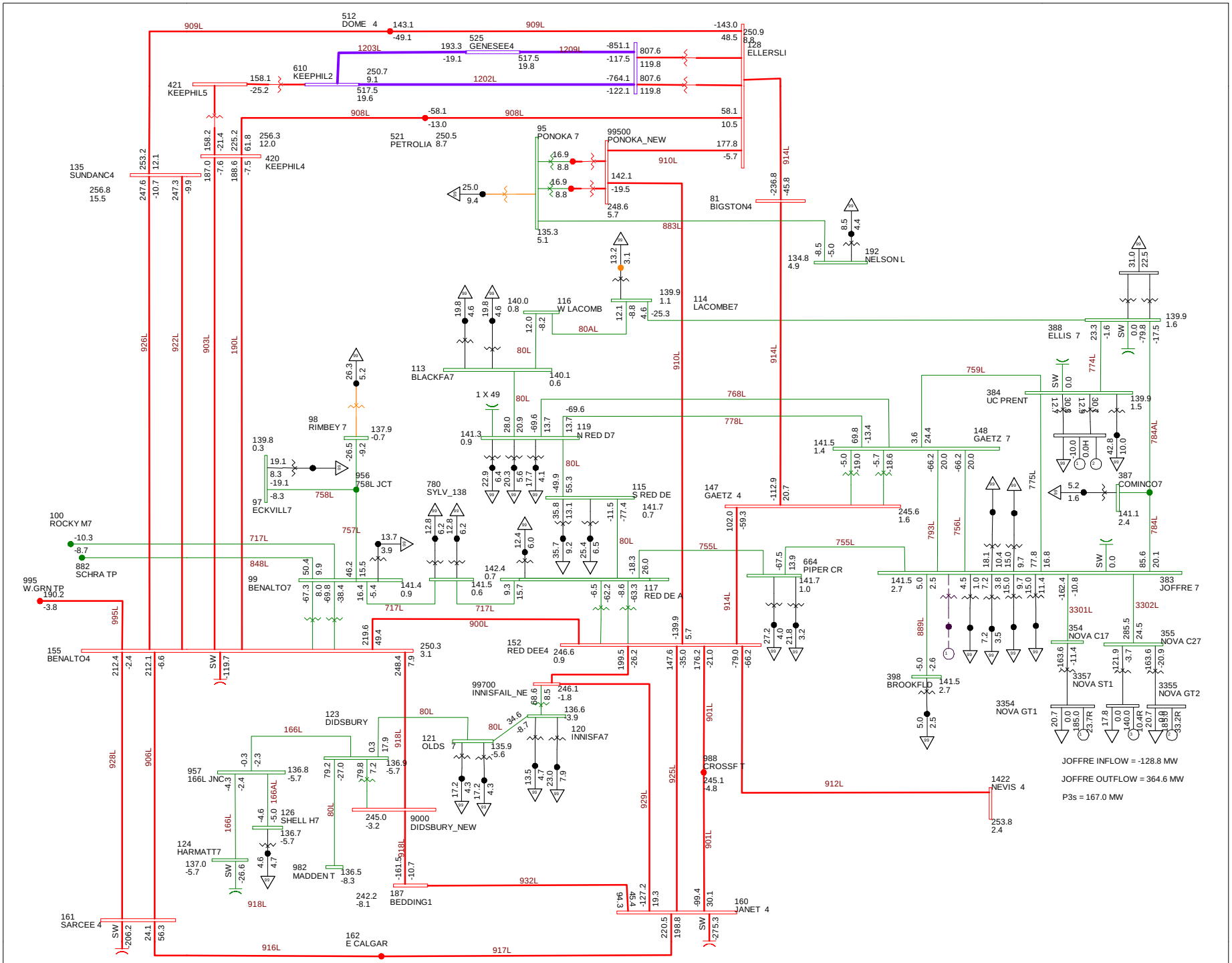


RED DEER REGION STUDY

2012 WINTER PEAK CASE GENERATION REV 6.5

FIG 2012-ALT2-LOAD-WP-1
AIES GENERATION DISPATCH
THU, MAR 10 2011 19:01

D-2012-203

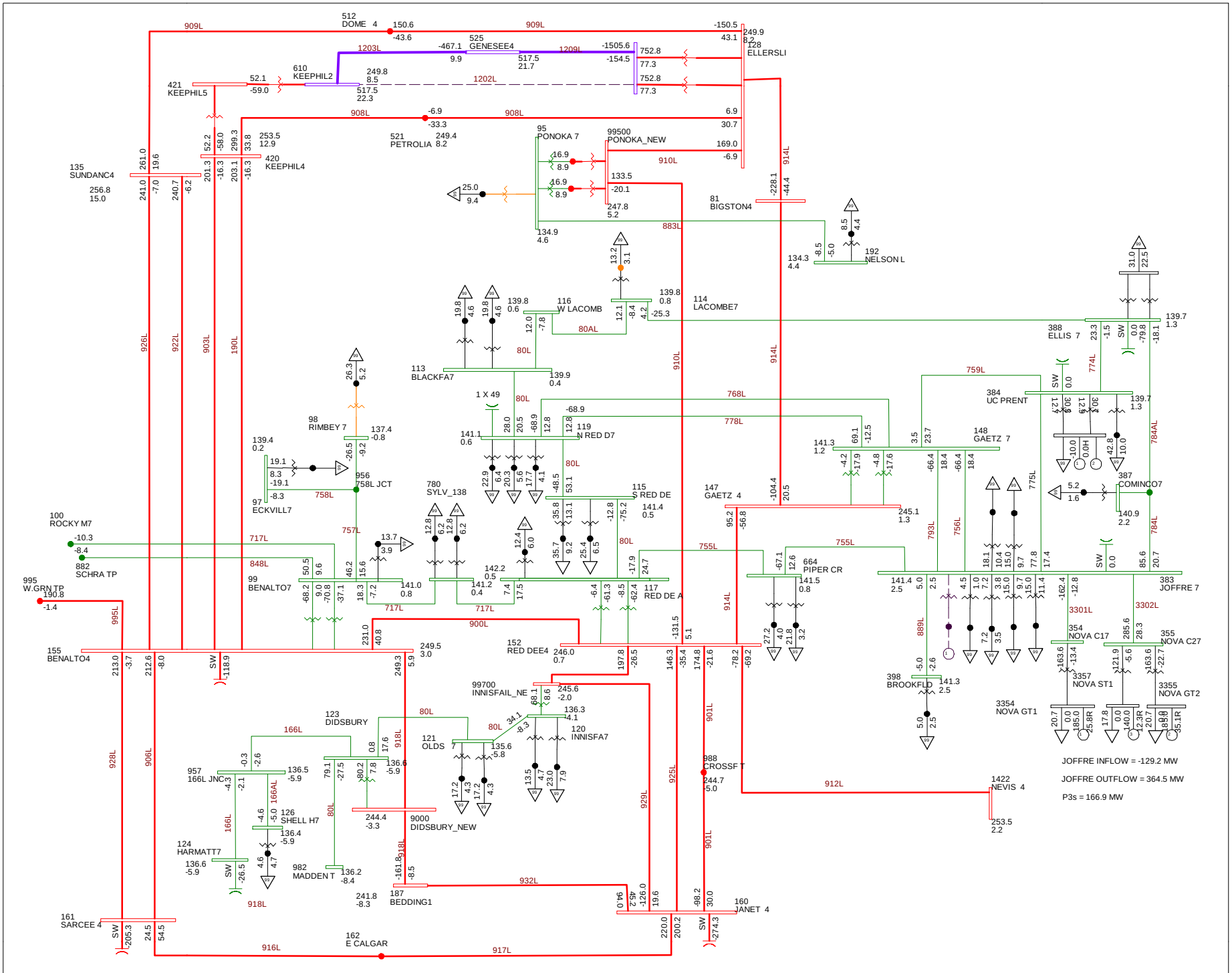


RED DEER REGION STUDY
2012 WINTER PEAK BASE CASE REVISION 6.5

FIG 2012-ALT2-LOAD-WP-2
ALL ELEMENTS IN SERVICE
TUE, MAR 01 2011 13:29

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-204

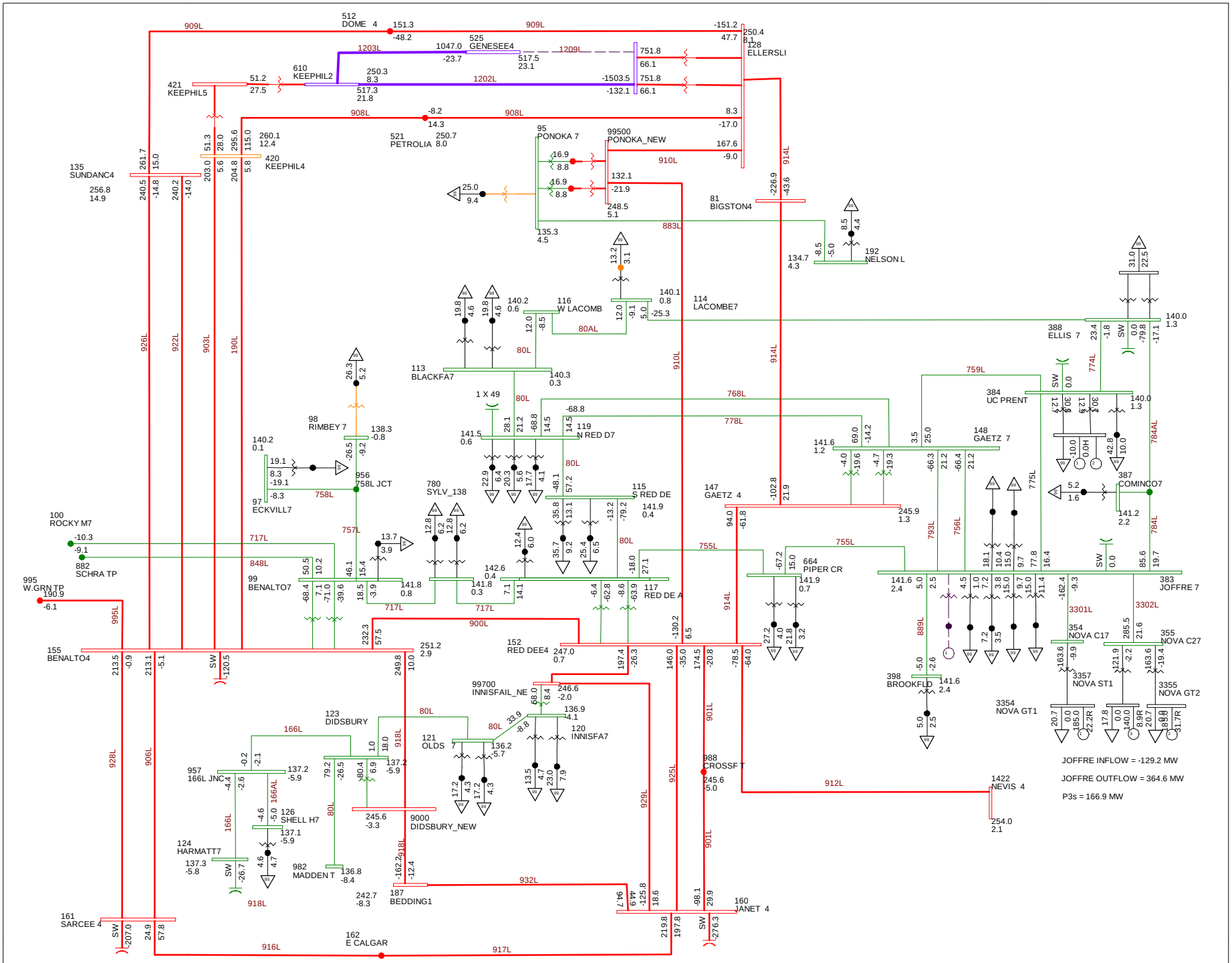


RED DEER REGION STUDY
2012 WINTER PEAK BASE CASE REVISION 6.5

FIG 2012-ALT2-LOAD-WP-3
500KV 1202L (ELLERSLIE 89S TO KEEPHILLS 320P) OUTAGE
TUE, MAR 01 2011 13:29

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-205

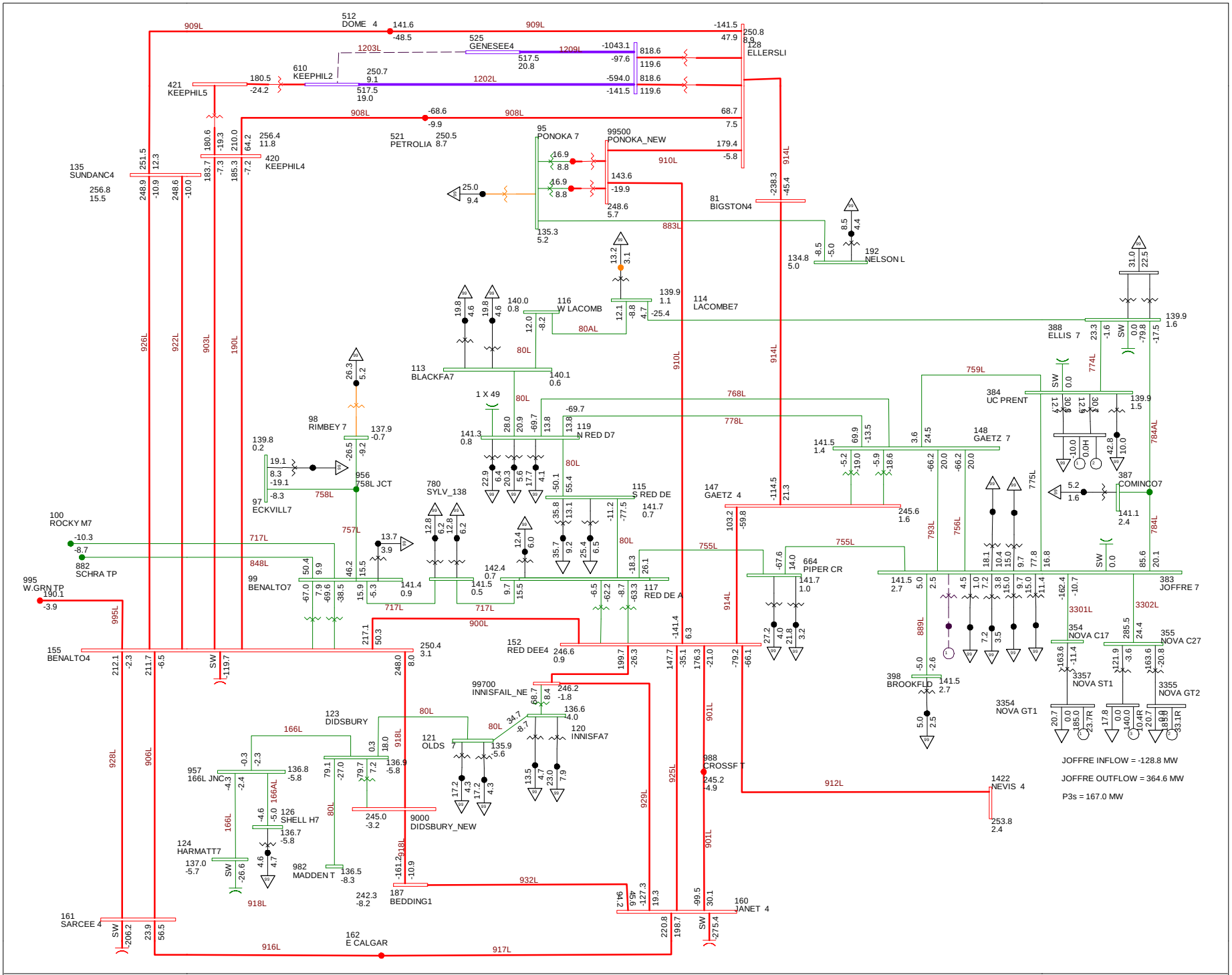


RED DEER REGION STUDY
2012 WINTER PEAK BASE CASE REVISION 6.5

FIG 2012-ALT2-LOAD-WP-4
500KV 1209L (ELLERSLIE 89S TO GENESEE E330P) OUTAGE
TUE, MAR 01 2011 13:29

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-206



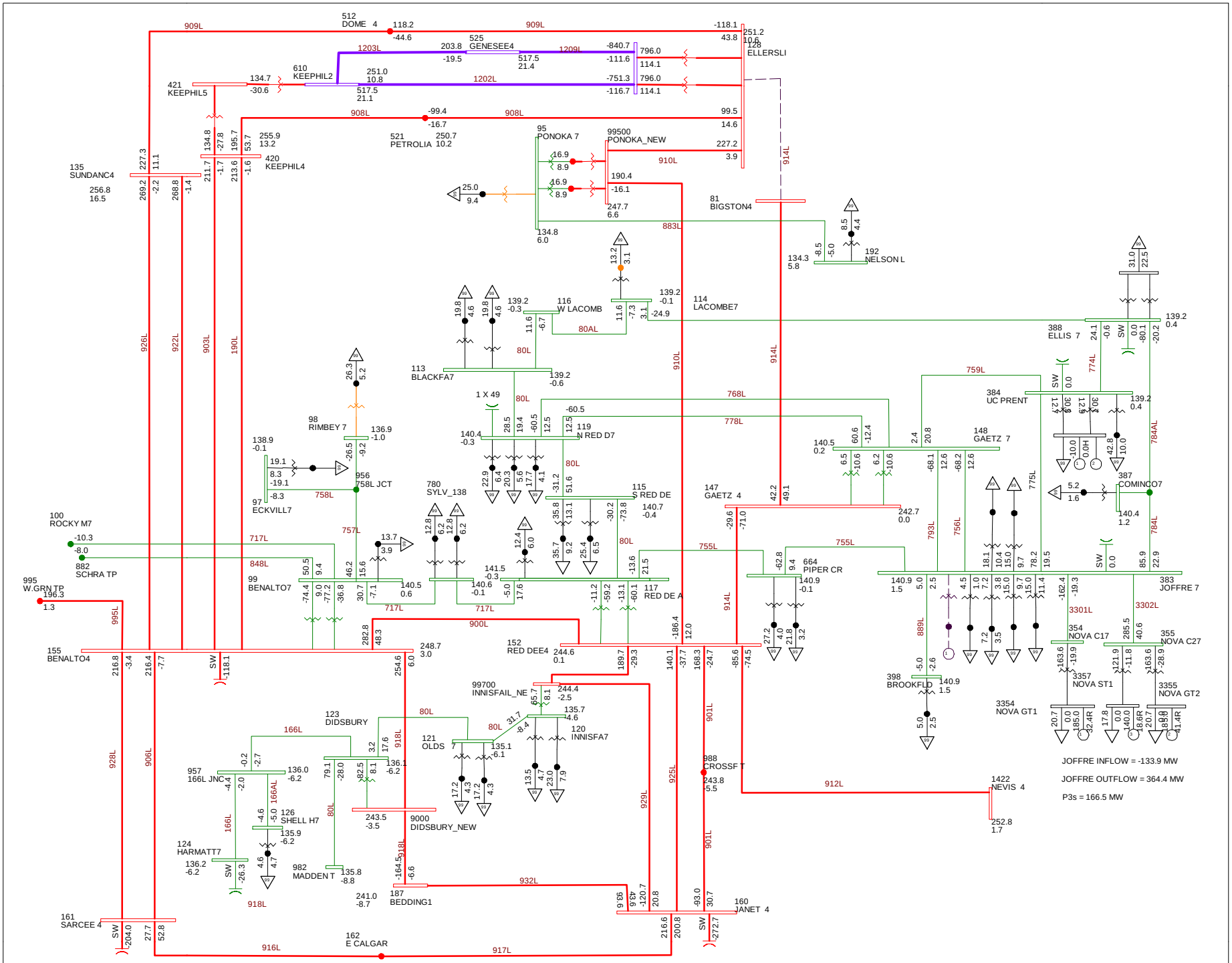
RED DEER REGION STUDY

2012 WINTER PEAK BASE CASE REVISION 6.5

FIG 2012-ALT2-LOAD-WP-5
500KV 1203L (GENESEE E330P TO KEEPHILLS 320P) OUTAGE
TUE, MAR 01 2011 13:29

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-207



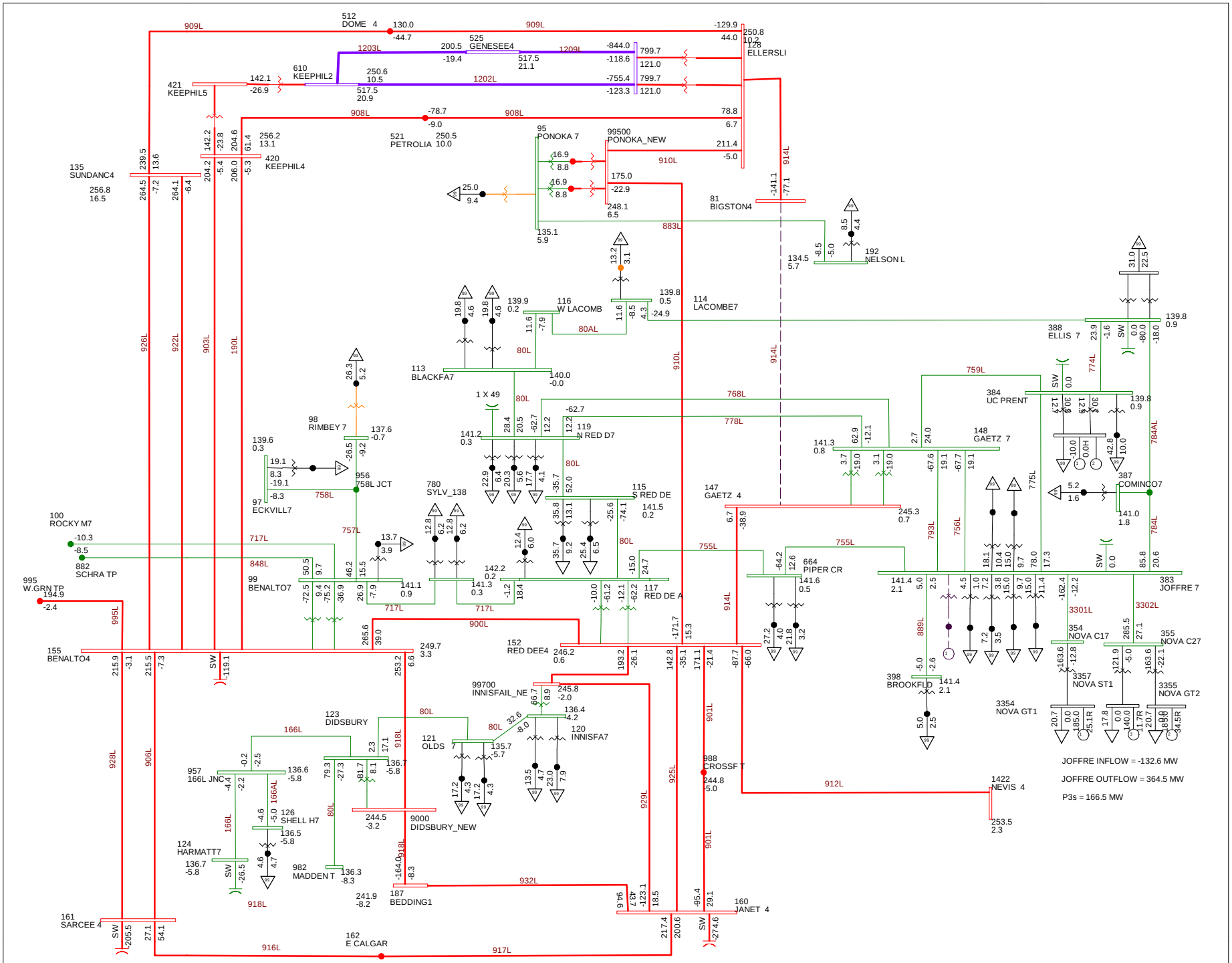
RED DEER REGION STUDY

2012 WINTER PEAK BASE CASE REVISION 6.5

FIG 2012-ALT2-LOAD-WP-6
240KV 914L (ELLERSLIE 89S TO BIGSTONE 86S) OUTAGE
TUE, MAR 01 2011 13:29

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-208

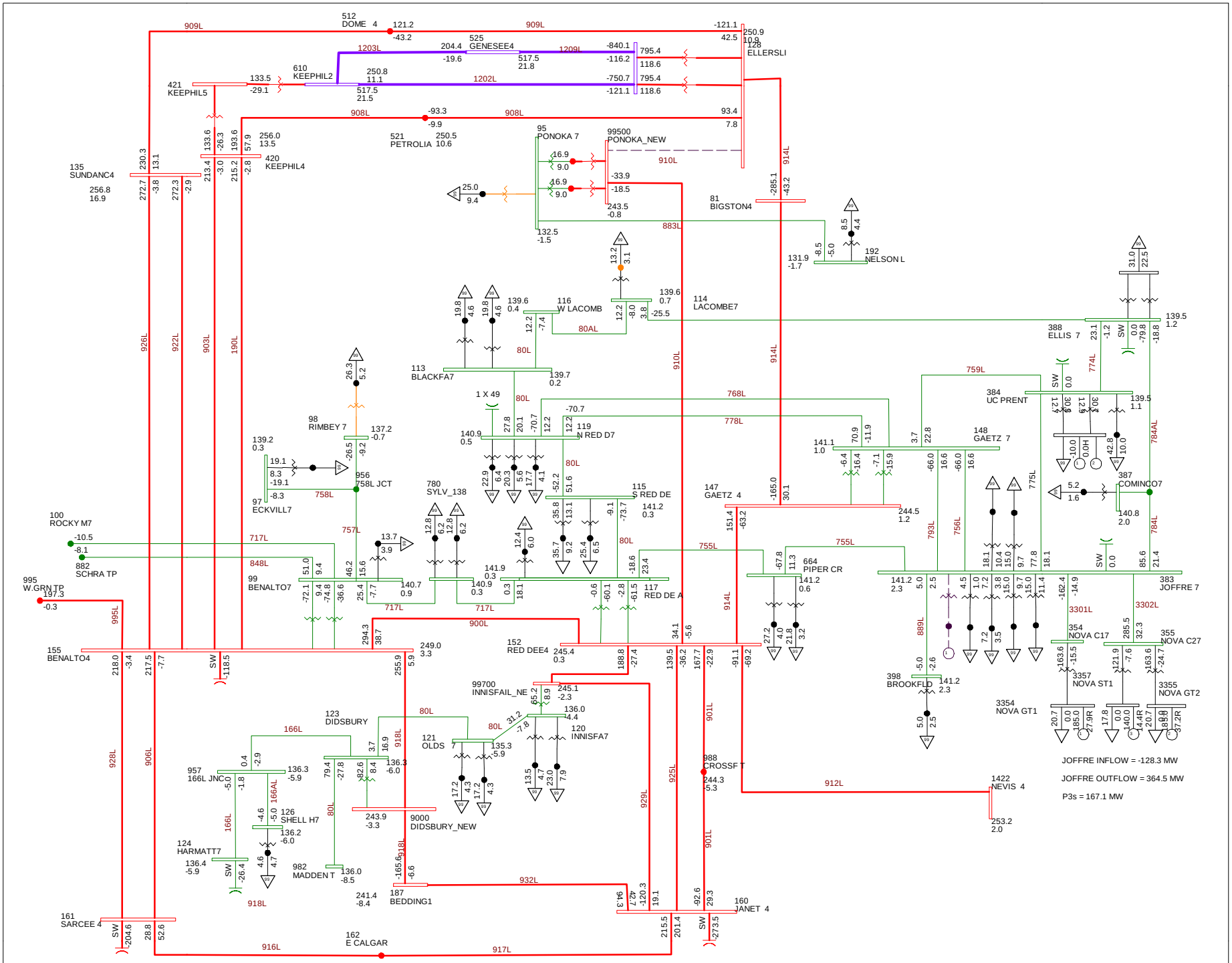


RED DEER REGION STUDY
2012 WINTER PEAK BASE CASE REVISION 6.5

FIG 2012-ALT2-LOAD-WP-7
240KV 914L (BIGSTONE 86S TO GAETZ 87S) OUTAGE
TUE, MAR 01 2011 13:29

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-209

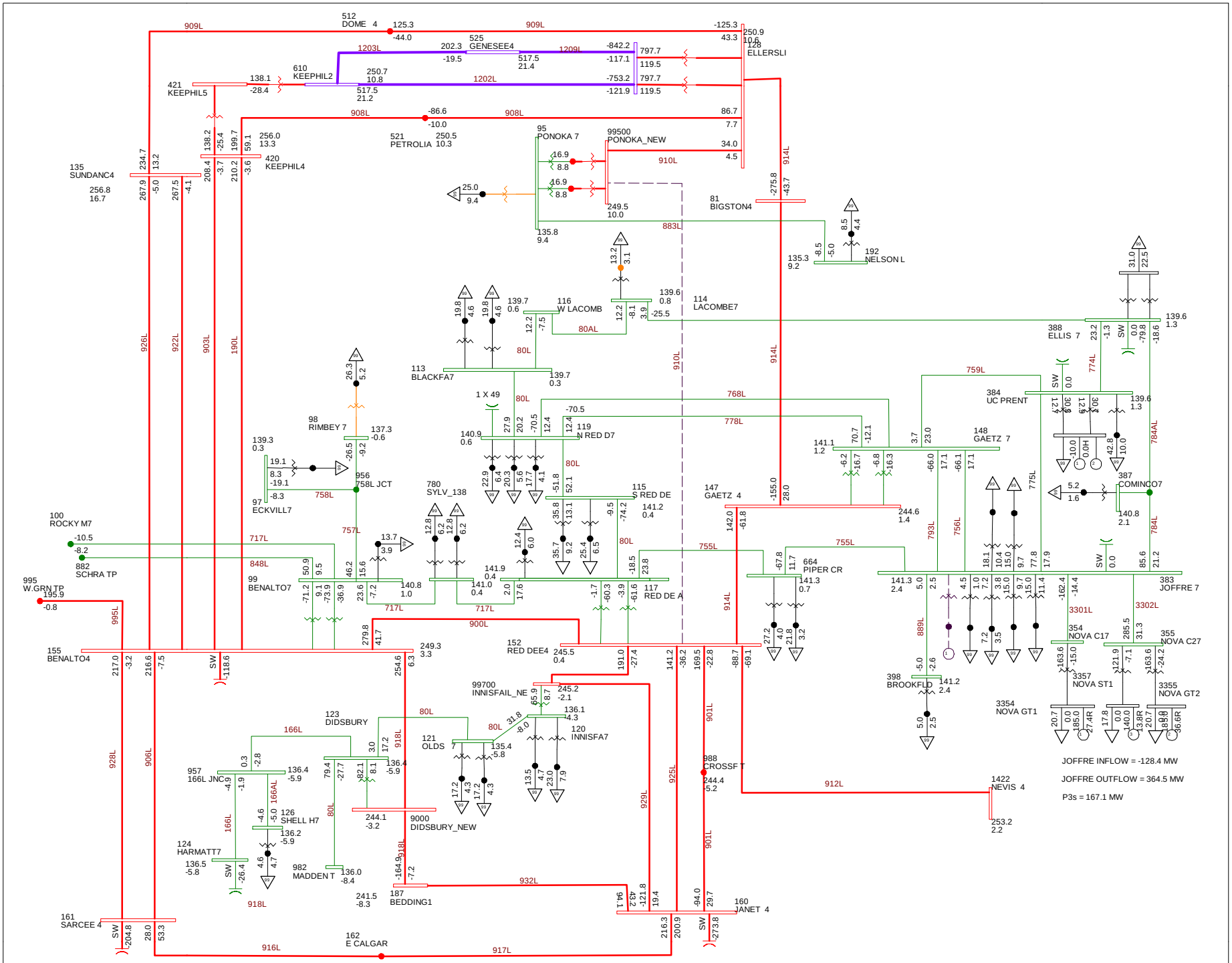


RED DEER REGION STUDY

2012 WINTER PEAK BASE CASE REVISION 6.5

FIG 2012-ALT2-LOAD-WP-8
240KV 910L (ELLERSLIE 89S TO PONOKA 331S) OUTAGE
TUE, MAR 01 2011 13:29

D-2012-210



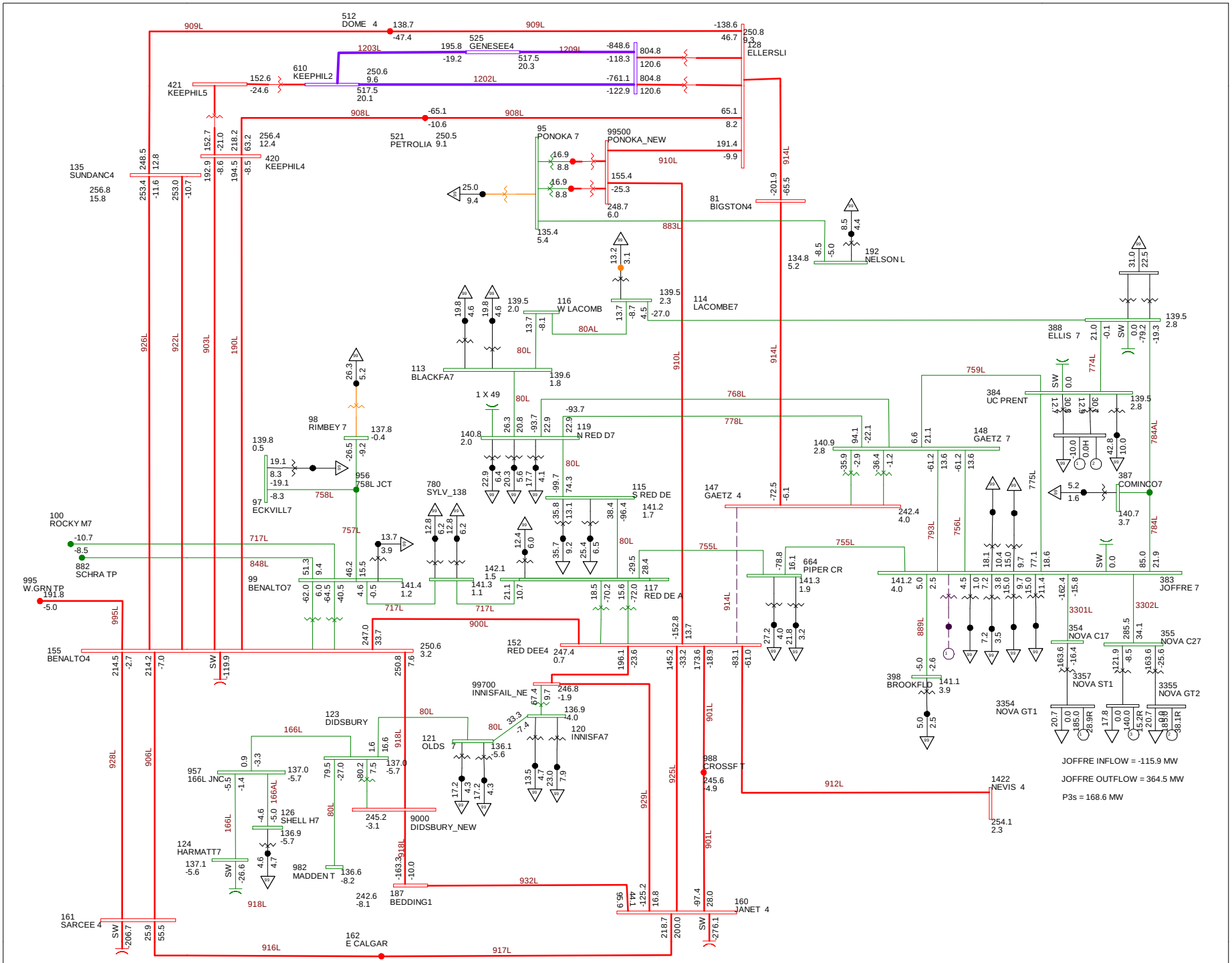
RED DEER REGION STUDY

2012 WINTER PEAK BASE CASE REVISION 6.5

FIG 2012-ALT2-LOAD-WP-9
240KV 910L (PONOKA 331S TO RED DEER 63S) OUTAGE
TUE, MAR 01 2011 13:29

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-211

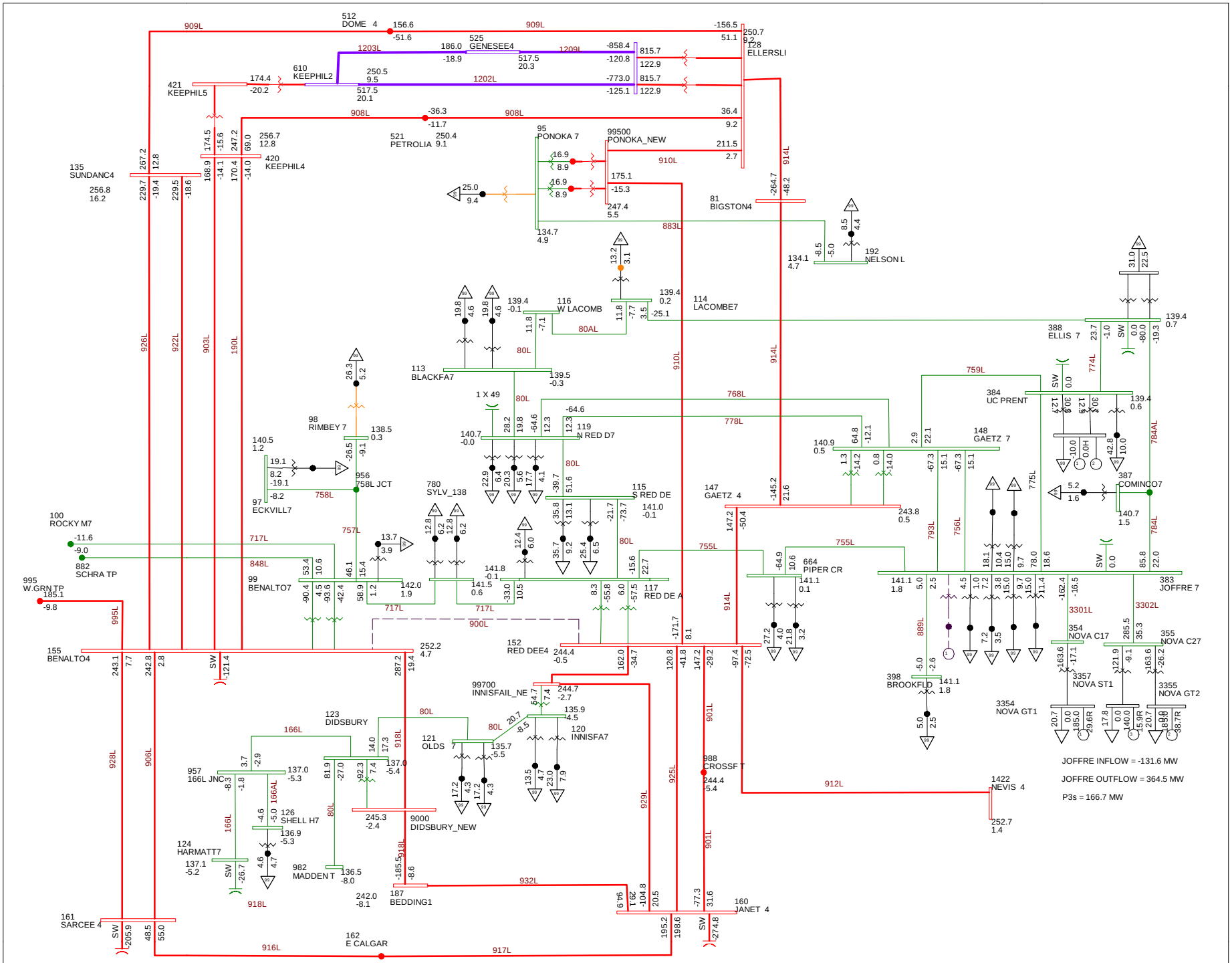


RED DEER REGION STUDY
2012 WINTER PEAK BASE CASE REVISION 6.5

FIG 2012-ALT2-LOAD-WP-10
240KV 914L (GAETZ 87S TO RED DEER 63S) OUTAGE
TUE, MAR 01 2011 13:29

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-212

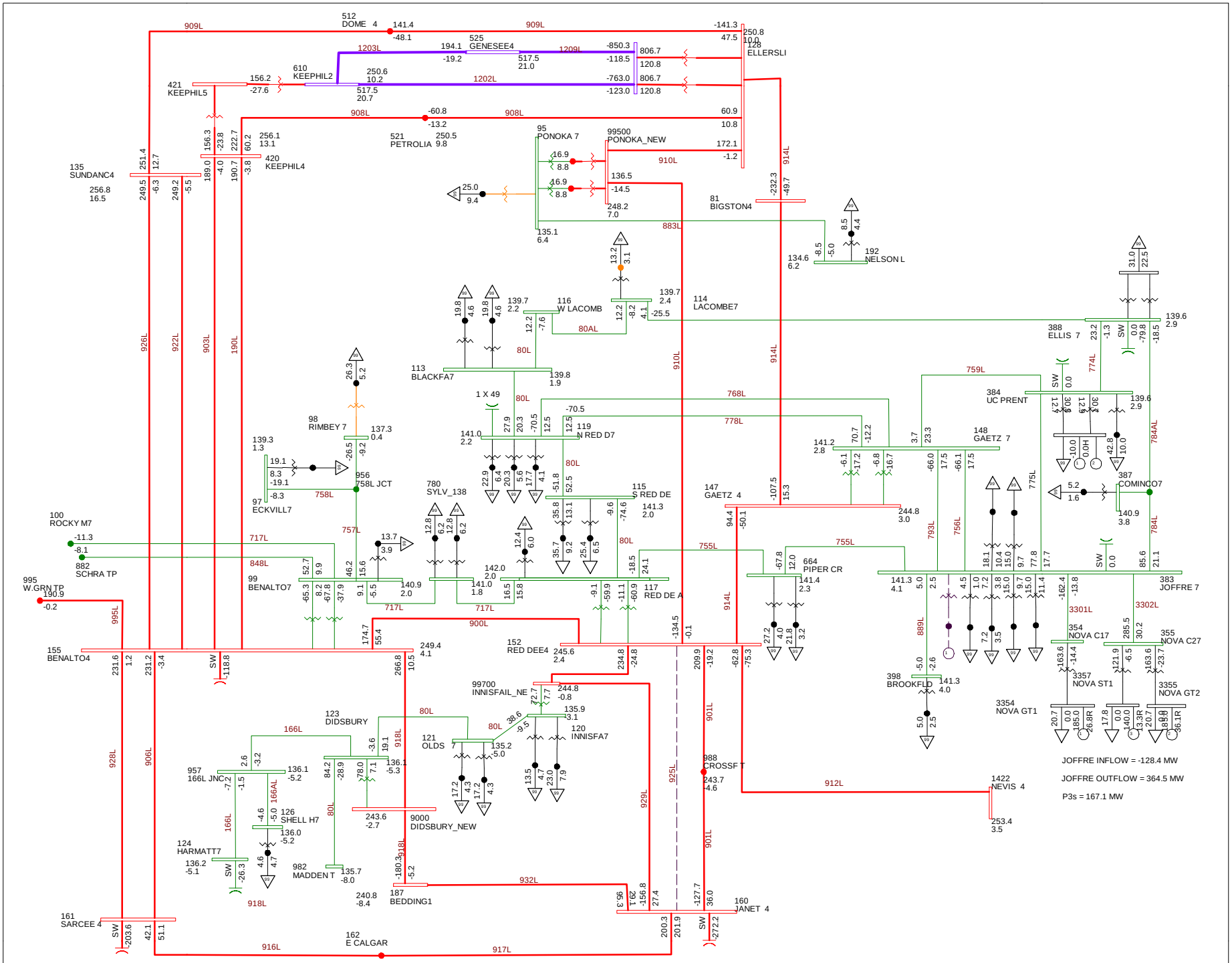


RED DEER REGION STUDY
2012 WINTER PEAK BASE CASE REVISION 6.5

FIG 2012-ALT2-LOAD-WP-11
240KV 900L (RED DEER 63S TO BENALTO 17S) OUTAGE
TUE, MAR 01 2011 13:29

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-213

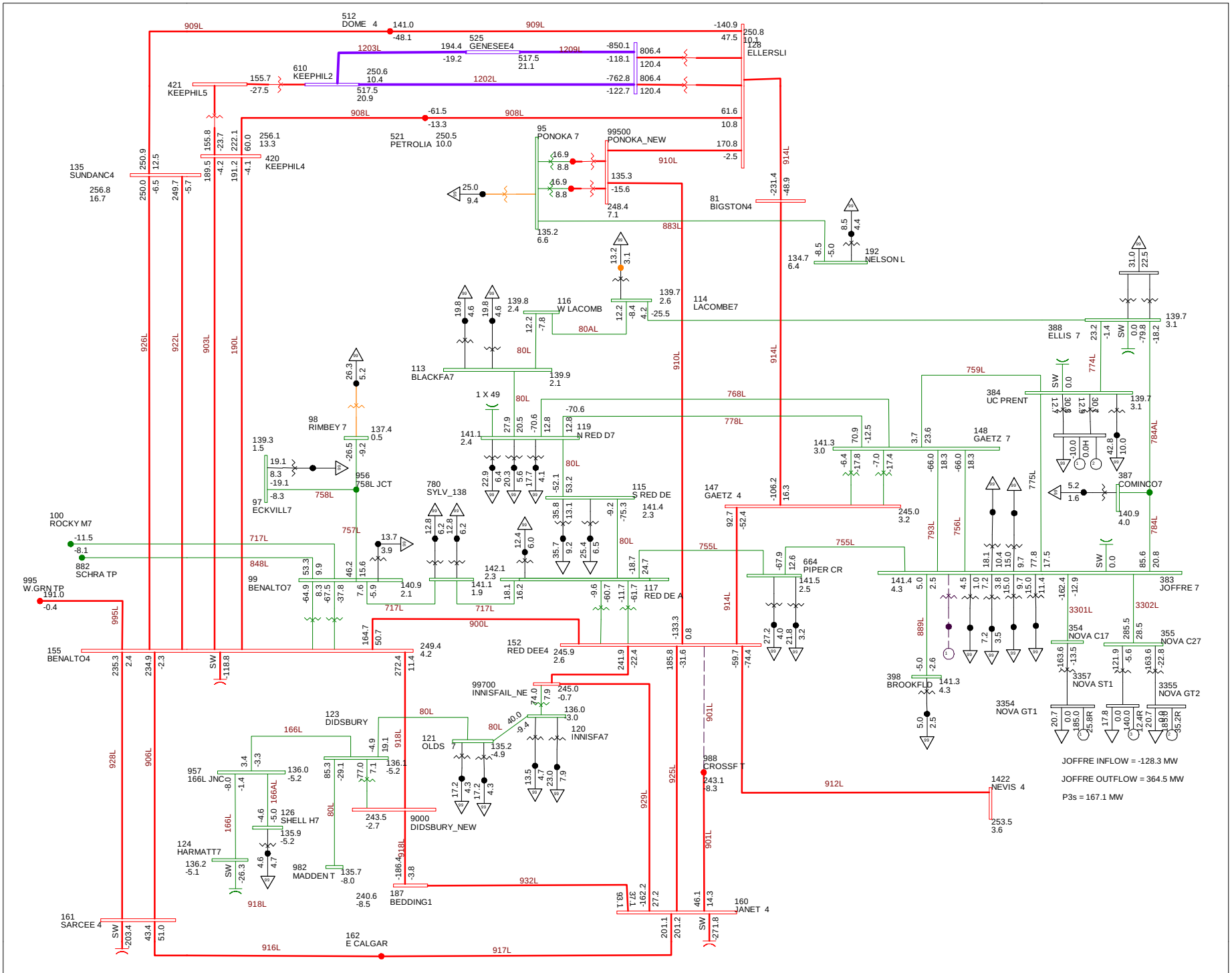


RED DEER REGION STUDY
2012 WINTER PEAK BASE CASE REVISION 6.5

FIG 2012-ALT2-LOAD-WP-12
240KV 925L (RED DEER 63S TO JANET 74S) OUTAGE
TUE, MAR 01 2011 13:29

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-214



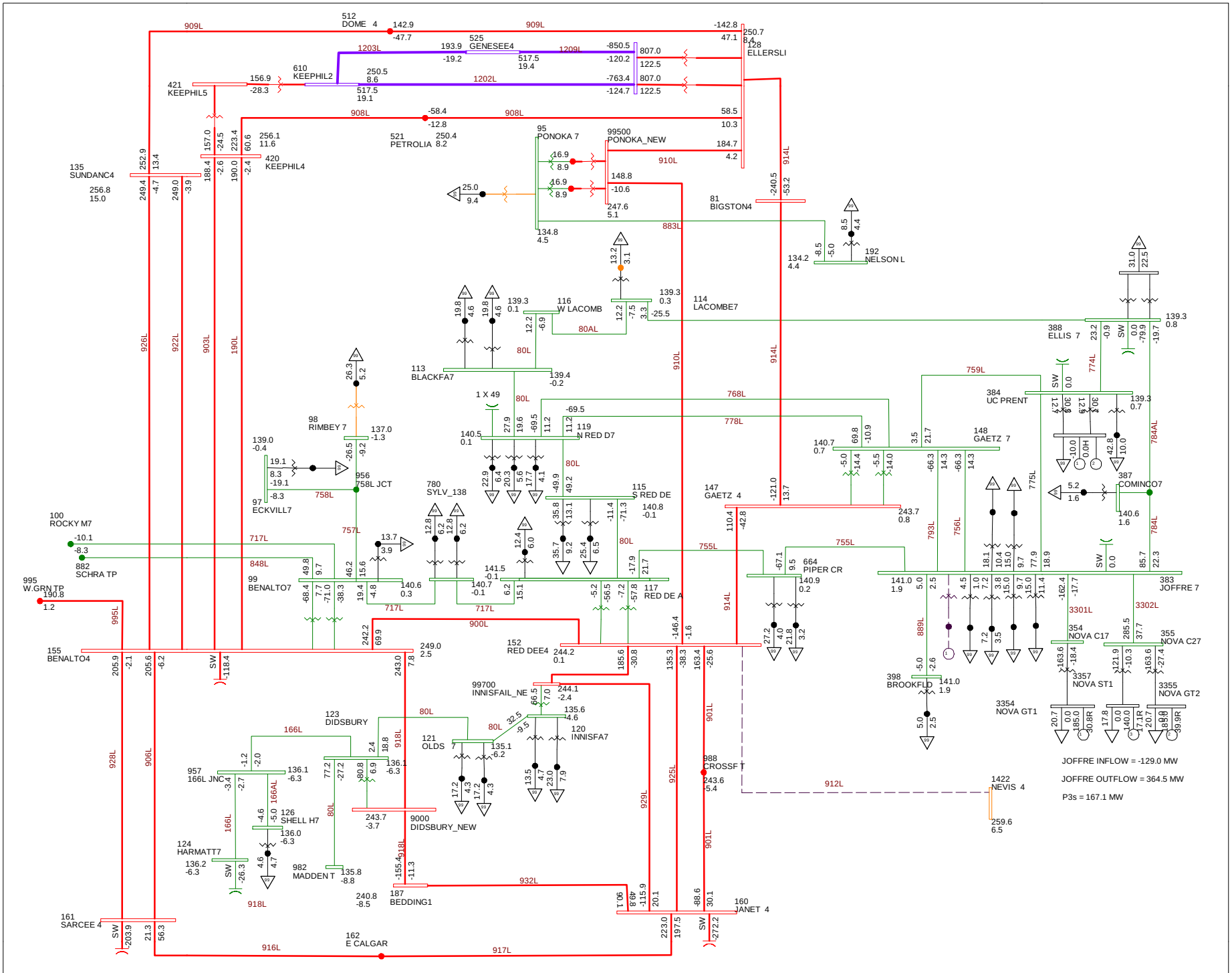
RED DEER REGION STUDY

2012 WINTER PEAK BASE CASE REVISION 6.5

FIG 2012-ALT2-LOAD-WP-13
240KV 901L (RED DEER 63S TO CROSSFIELD 64S) OUTAGE
TUE, MAR 01 2011 13:29

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-215



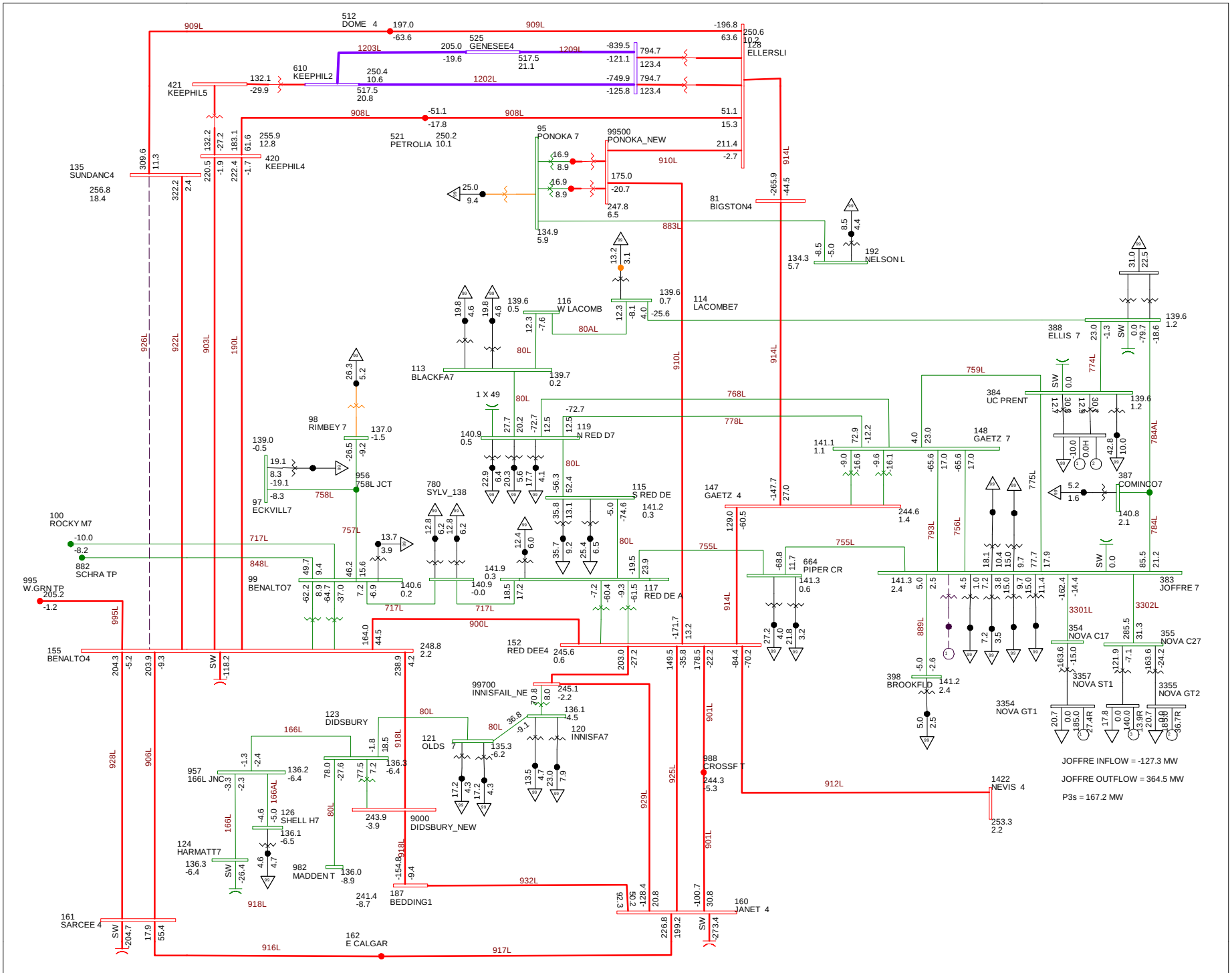
RED DEER REGION STUDY

2012 WINTER PEAK BASE CASE REVISION 6.5

FIG 2012-ALT2-LOAD-WP-14
240KV 912L (RED DEER 63S TO NEVIS 766S) OUTAGE
TUE, MAR 01 2011 13:29

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-216



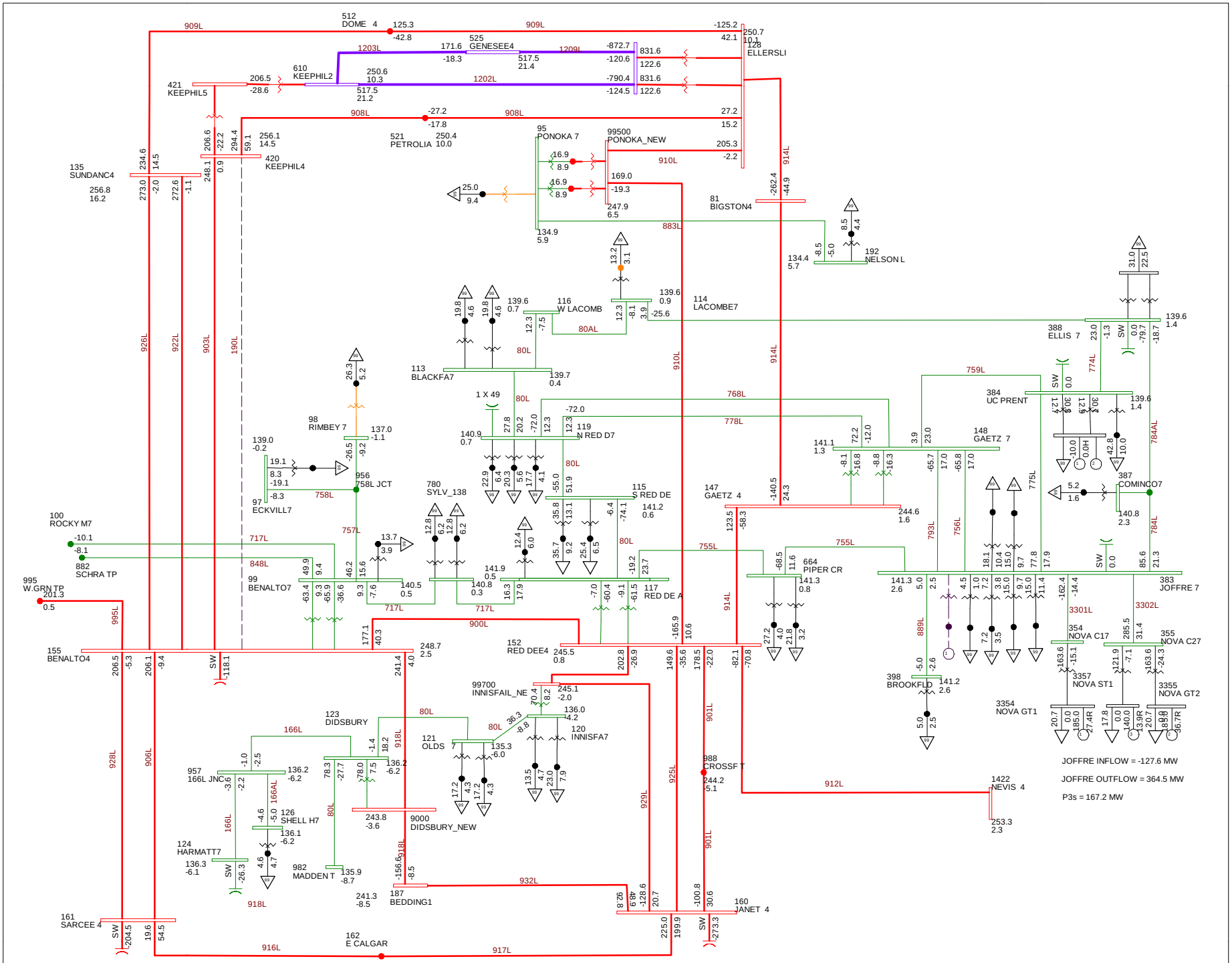
RED DEER REGION STUDY

2012 WINTER PEAK BASE CASE REVISION 6.5

FIG 2012-ALT2-LOAD-WP-15
240 KV 926/922L (SUNDANCE 310P TO BENALTO 17S) OUTAGE
TUE, MAR 01 2011 13:29

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-217



RED DEER REGION STUDY

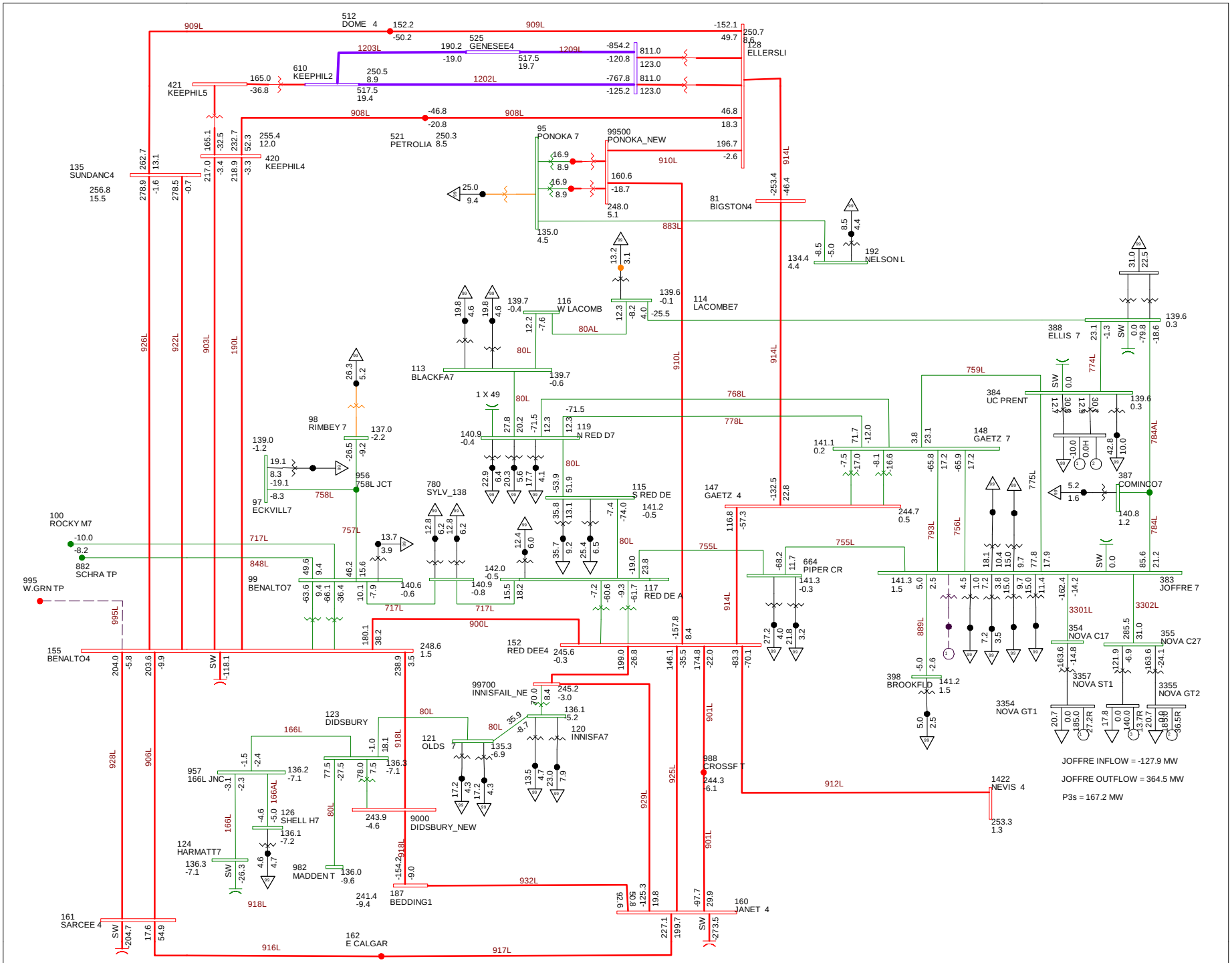
2012 WINTER PEAK BASE CASE REVISION 6.5

FIG 2012-ALT2-LOAD-WP-16
240KV 190/903L (KEEPHILLS 320P TO BENALTO 17S) OUTAGE
TUE, MAR 01 2011 13:29

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR

<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-218

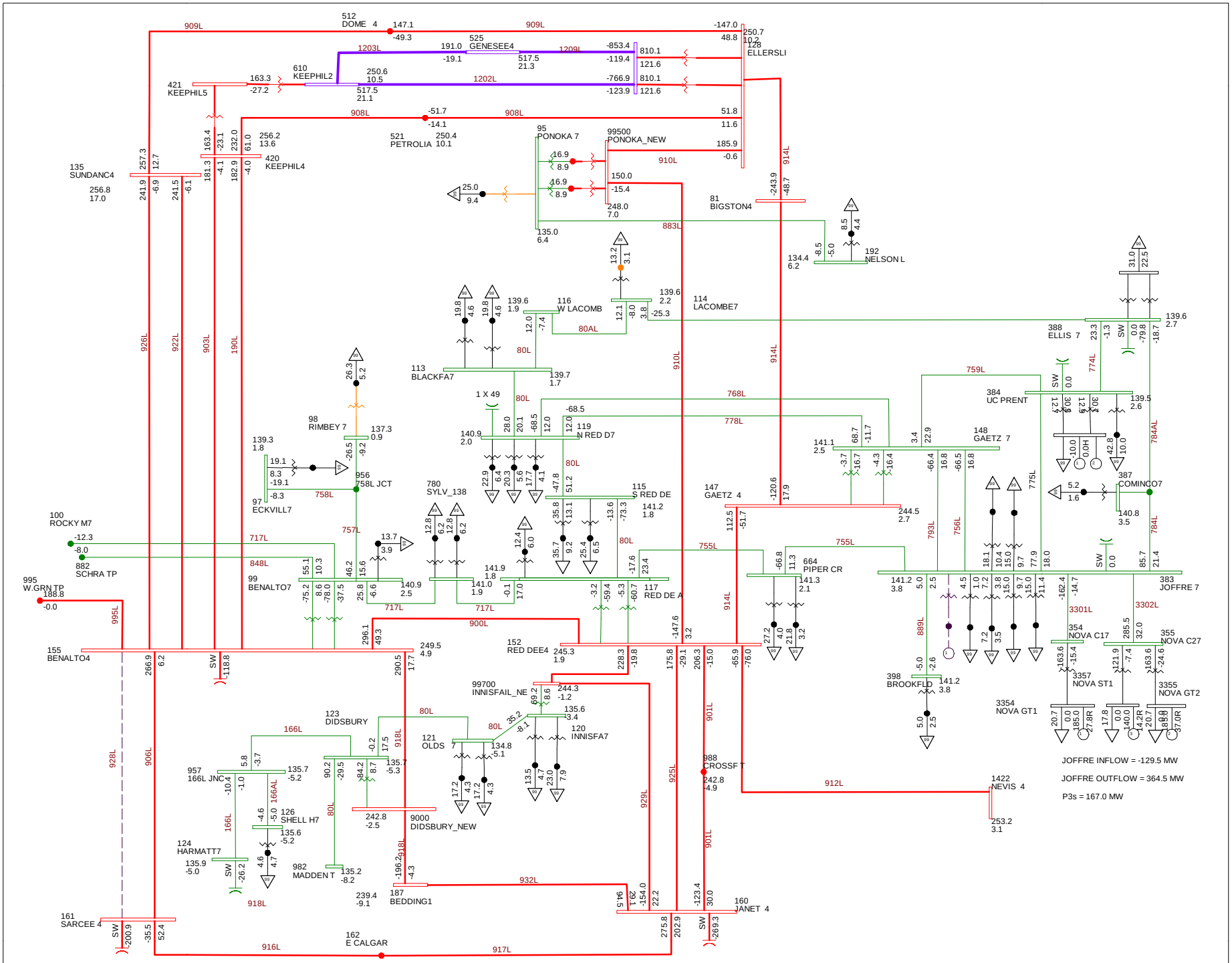


RED DEER REGION STUDY
2012 WINTER PEAK BASE CASE REVISION 6.5

FIG 2012-ALT2-LOAD-WP-17
240 KV 995L (AMOCO WILLESDEN GREEN 68S TO BENALTO 17S) OUTAG
TUE, MAR 01 2011 13:29

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-219



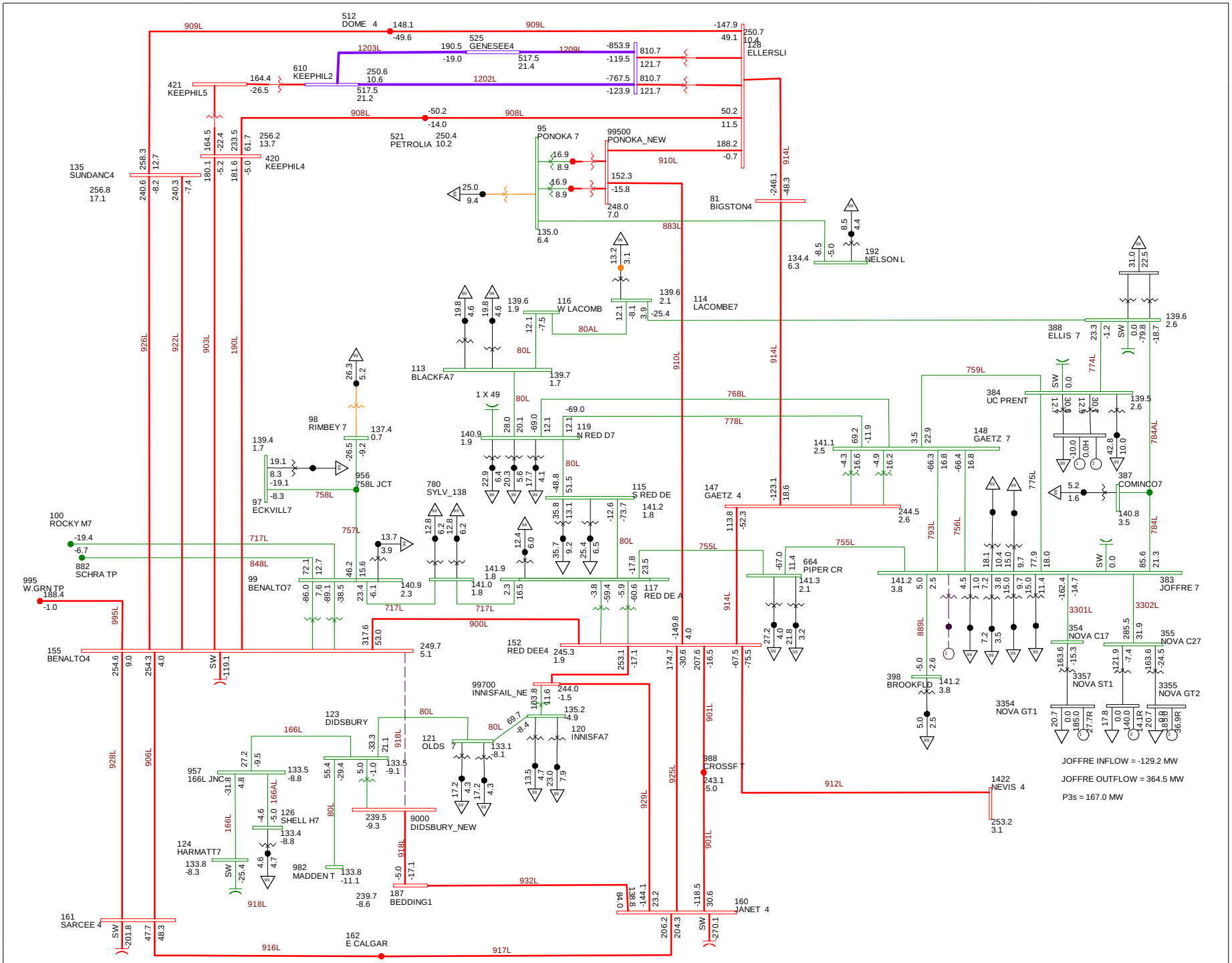
RED DEER REGION STUDY

2012 WINTER PEAK BASE CASE REVISION 6.5

FIG 2012-ALT2-LOAD-WP-18
240 KV 906/928L (BENALTO 17S TO SARCEE 42S) OUTAGE
TUE, MAR 01 2011 13:29

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-220



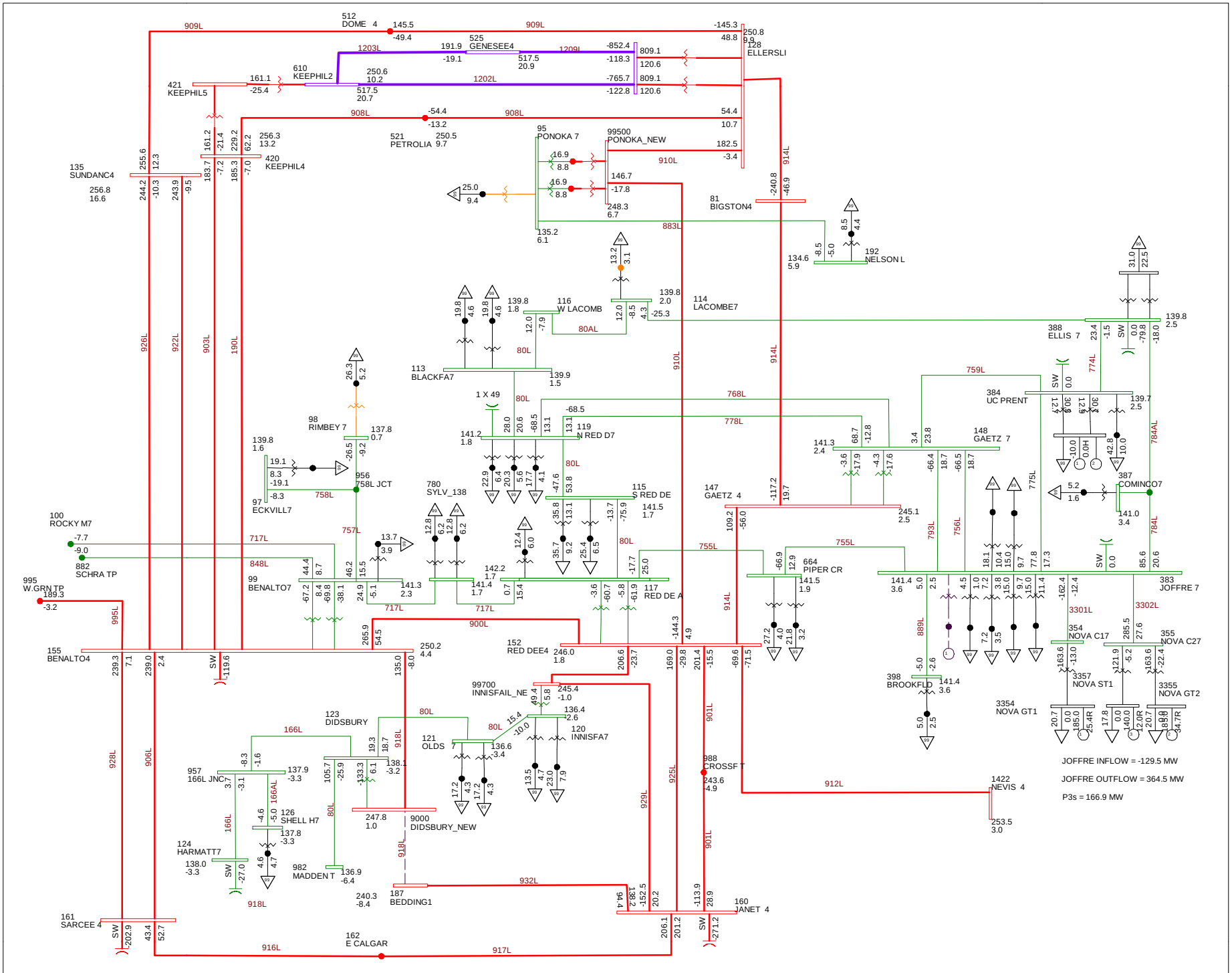
RED DEER REGION STUDY

2012 WINTER PEAK BASE CASE REVISION 6.5

FIG 2012-ALT2-LOAD-WP-19
240 KV 918L (BENALTO 17S TO DIDSBURY SUB. (152S)) OUTAGE
TUE, MAR 01 2011 13:29

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

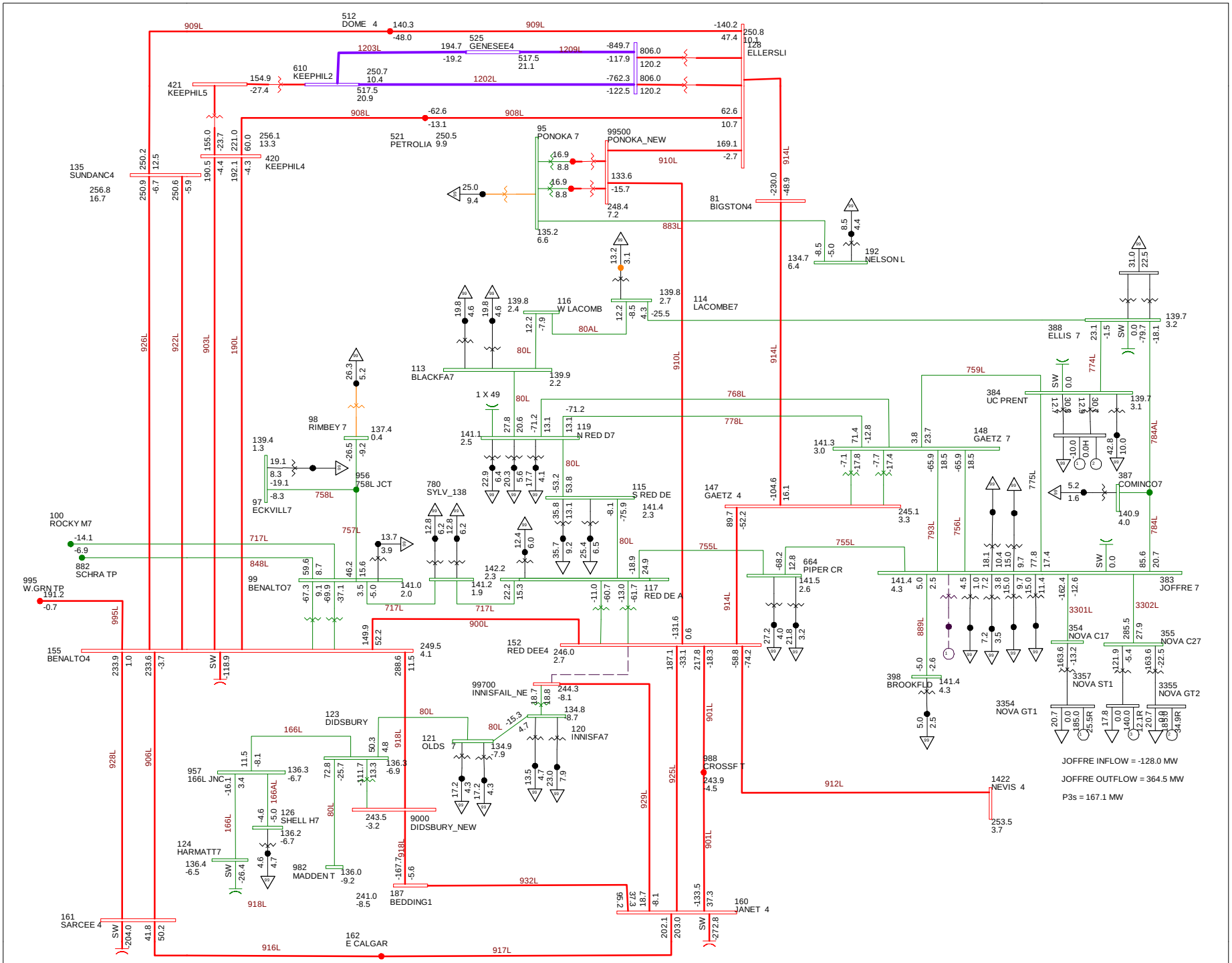
D-2012-221



RED DEER REGION STUDY
2012 WINTER PEAK BASE CASE REVISION 6.5

FIG 2012-ALT2-LOAD-WP-20
240 KV 918L (DIDSBURY SUB. (152S) TO BEDDINGTON 162S) OUTAGE
TUE, MAR 01 2011 13:29

D-2012-222

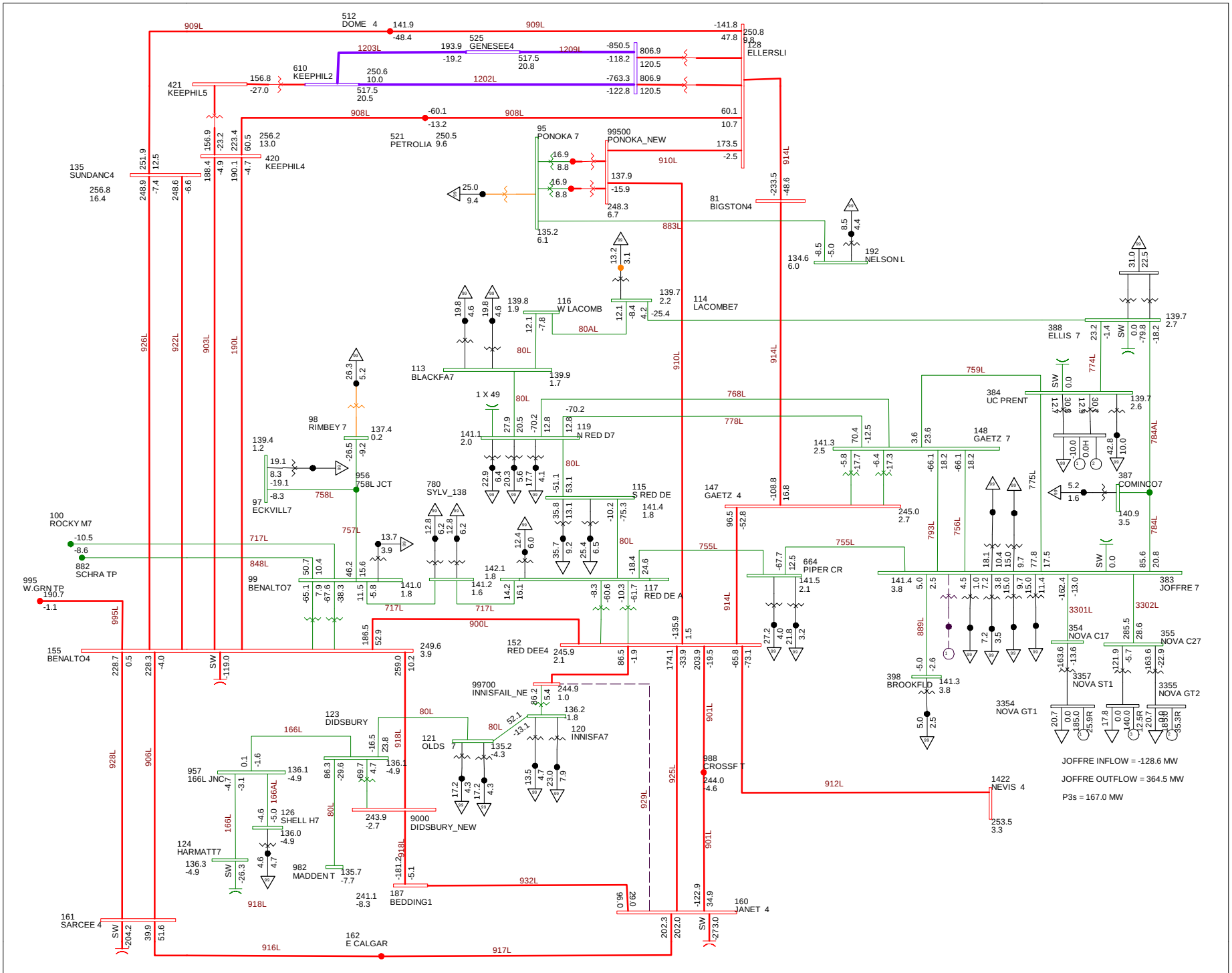


RED DEER REGION STUDY
2012 WINTER PEAK BASE CASE REVISION 6.5

FIG 2012-ALT2-LOAD-WP-21
240 KV 929L (RED DEER 63S TO INNISFAIL 214S) OUTAGE
TUE, MAR 01 2011 13:29

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-223



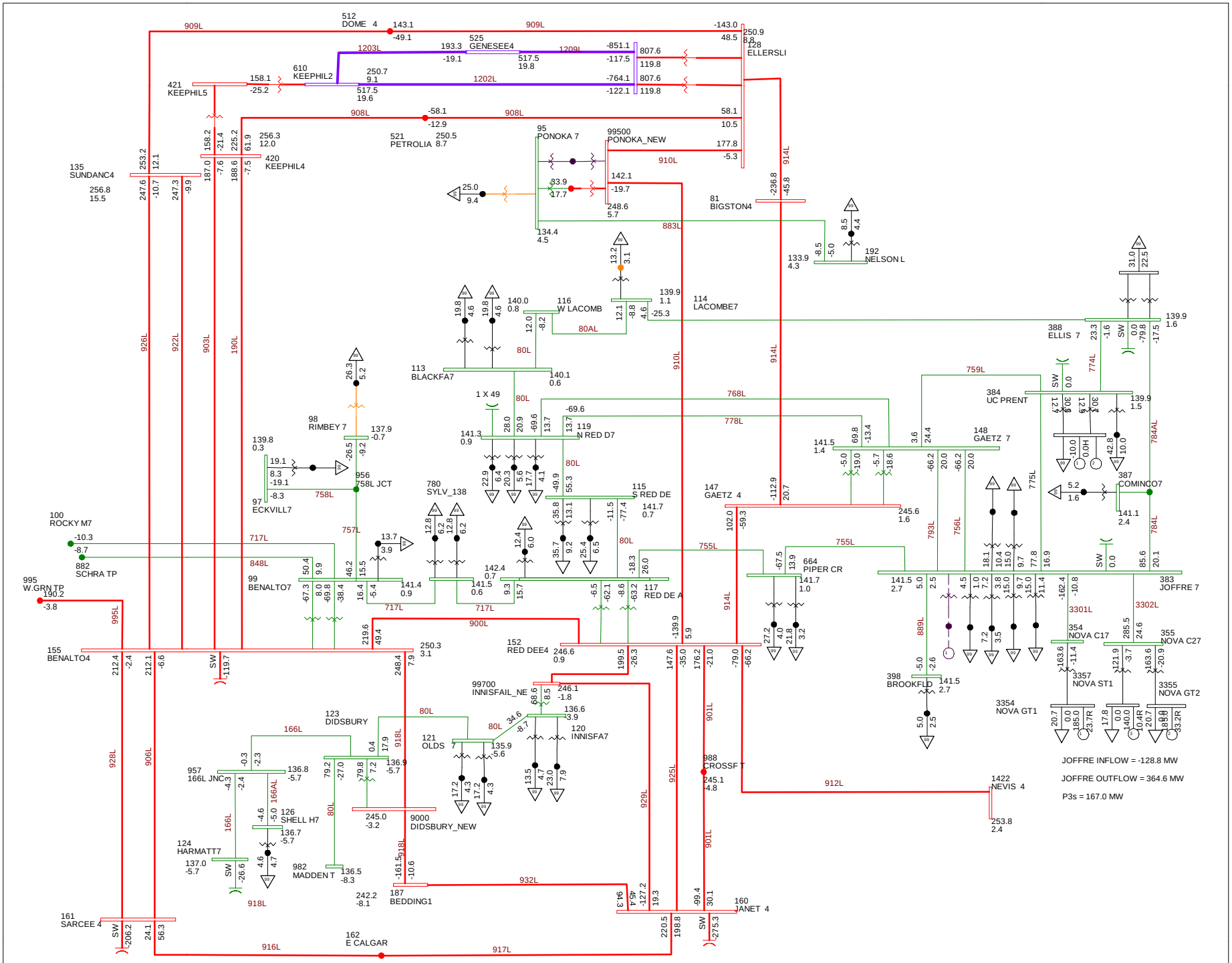
RED DEER REGION STUDY

2012 WINTER PEAK BASE CASE REVISION 6.5

FIG 2012-ALT2-LOAD-WP-22
240KV 929L (INNISFAIL 214S TO JANET 74S) OUTAGE
TUE, MAR 01 2011 13:29

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-224



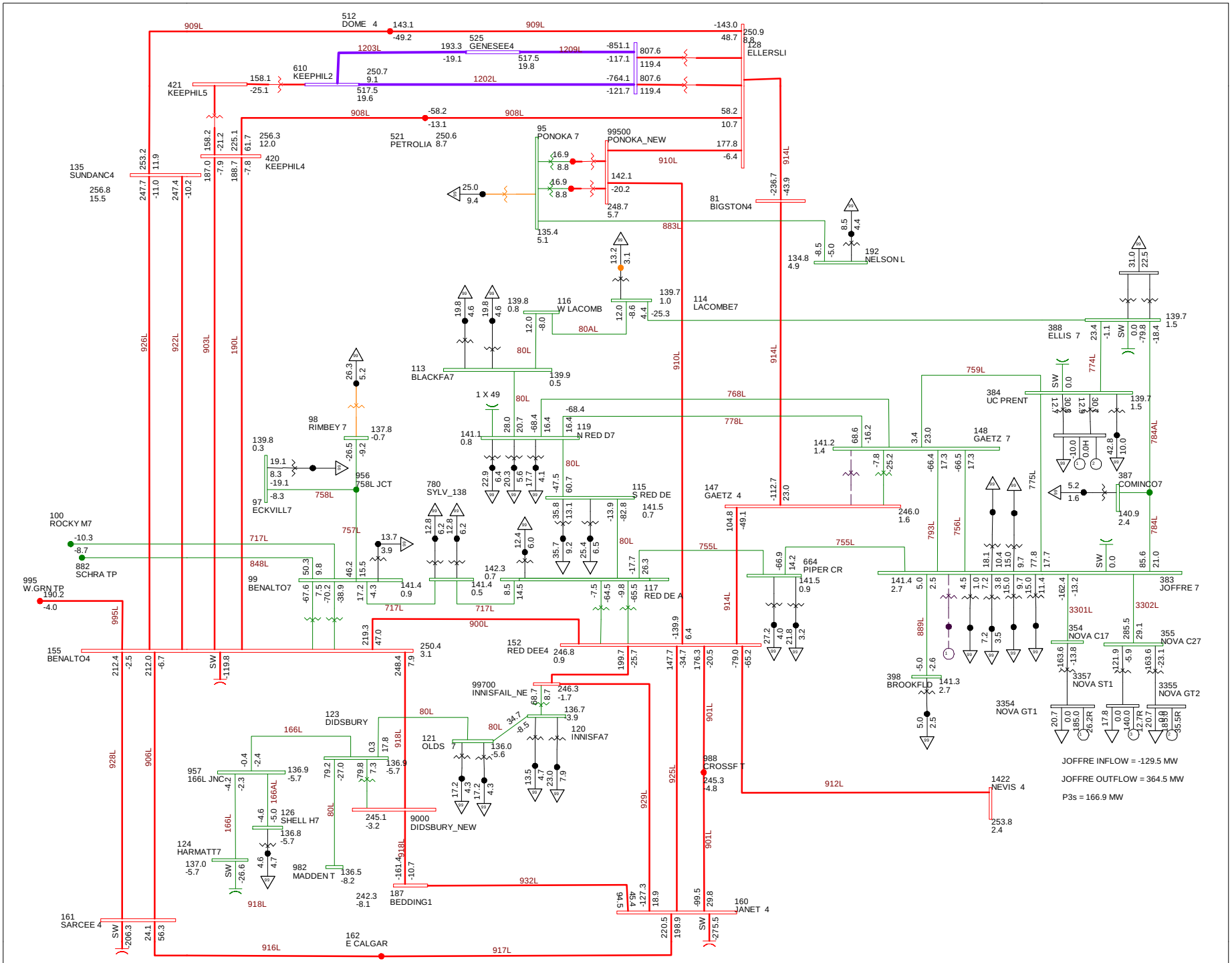
RED DEER REGION STUDY

2012 WINTER PEAK BASE CASE REVISION 6.5

FIG 2012-ALT2-LOAD-WP-23
240/138KV TRANSFORMER AT PONOKA 331S OUTAGE
TUE, MAR 01 2011 13:29

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-225



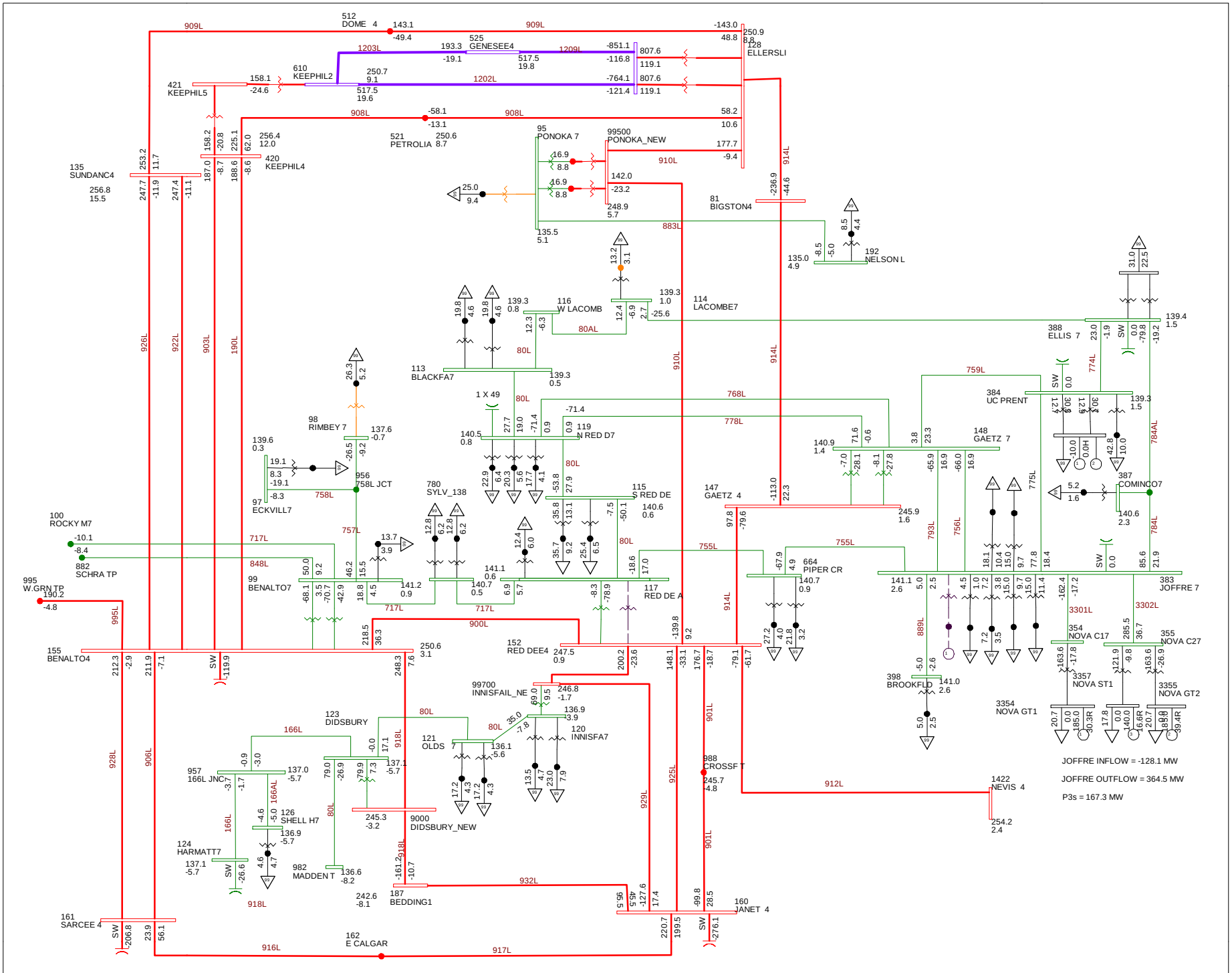
RED DEER REGION STUDY

2012 WINTER PEAK BASE CASE REVISION 6.5

FIG 2012-ALT2-LOAD-WP-24
240/138KV TRANSFORMER AT GAETZ 87S OUTAGE
TUE, MAR 01 2011 13:29

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-226



RED DEER REGION STUDY

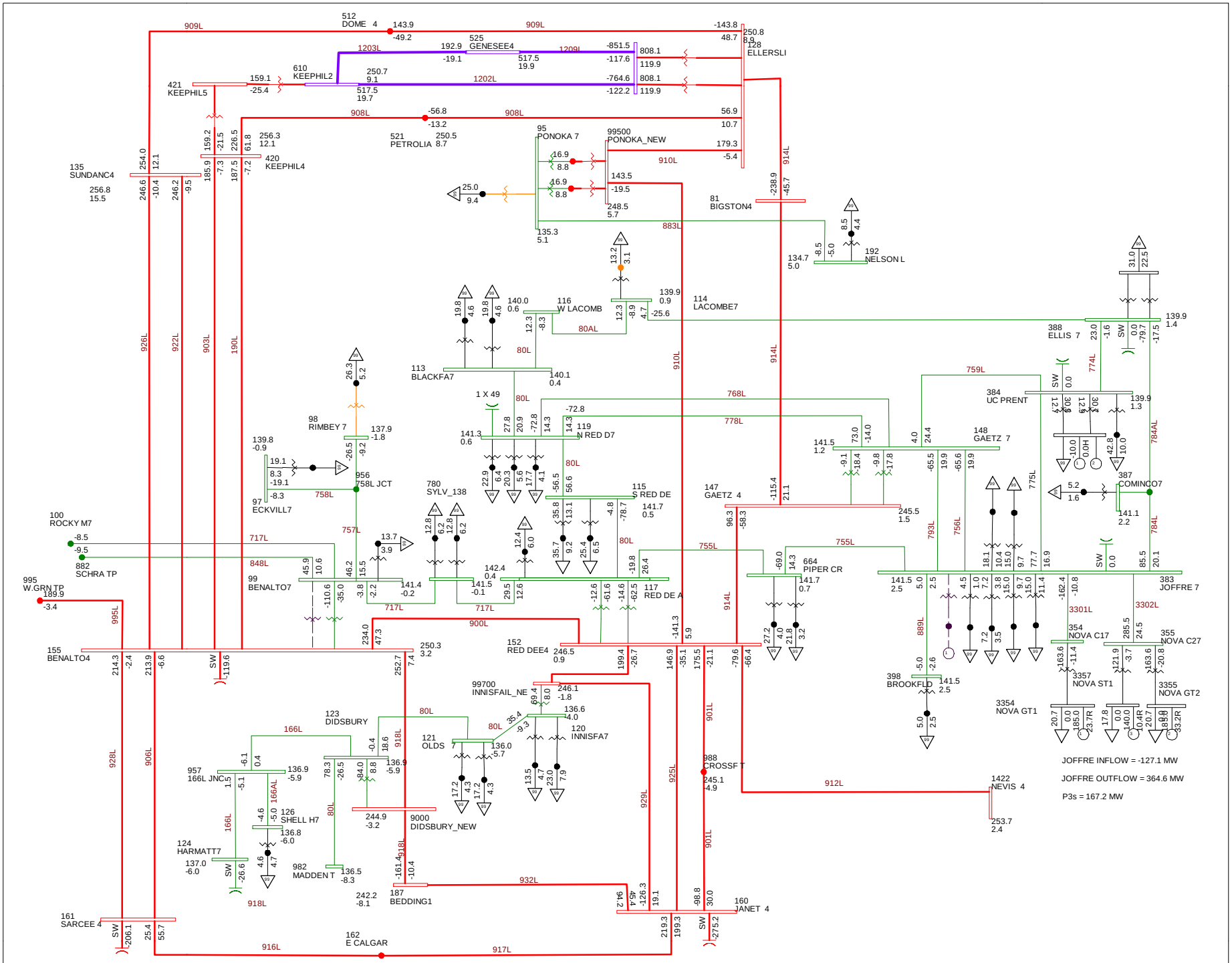
2012 WINTER PEAK BASE CASE REVISION 6.5

FIG 2012-ALT2-LOAD-WP-25
240/138KV TRANSFORMER AT RED DEER 63S OUTAGE
TUE, MAR 01 2011 13:29

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR

<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-227

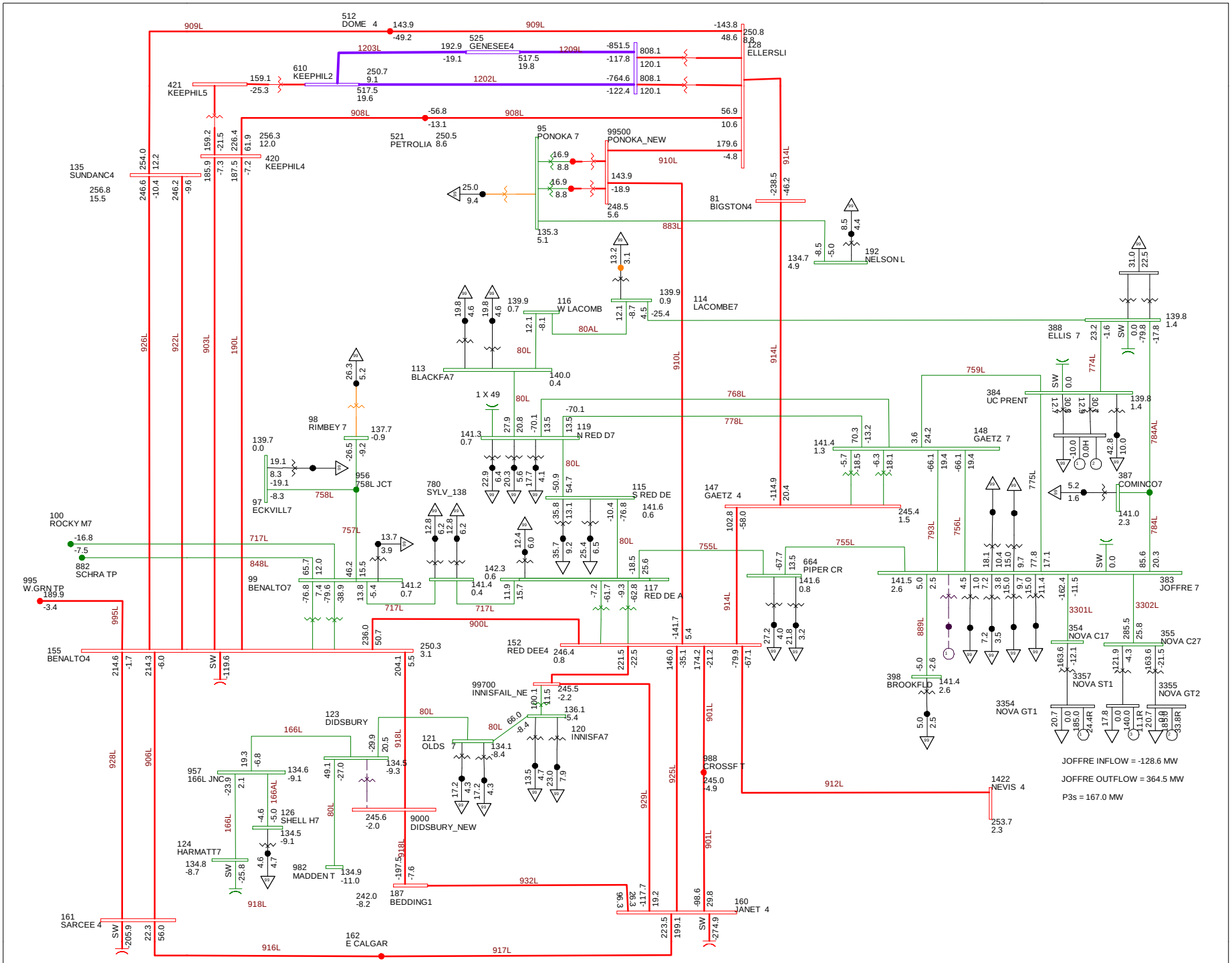


RED DEER REGION STUDY
2012 WINTER PEAK BASE CASE REVISION 6.5

FIG 2012-ALT2-LOAD-WP-26
240/138KV TRANSFORMER AT BENALTO 17S OUTAGE
TUE, MAR 01 2011 13:29

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-228



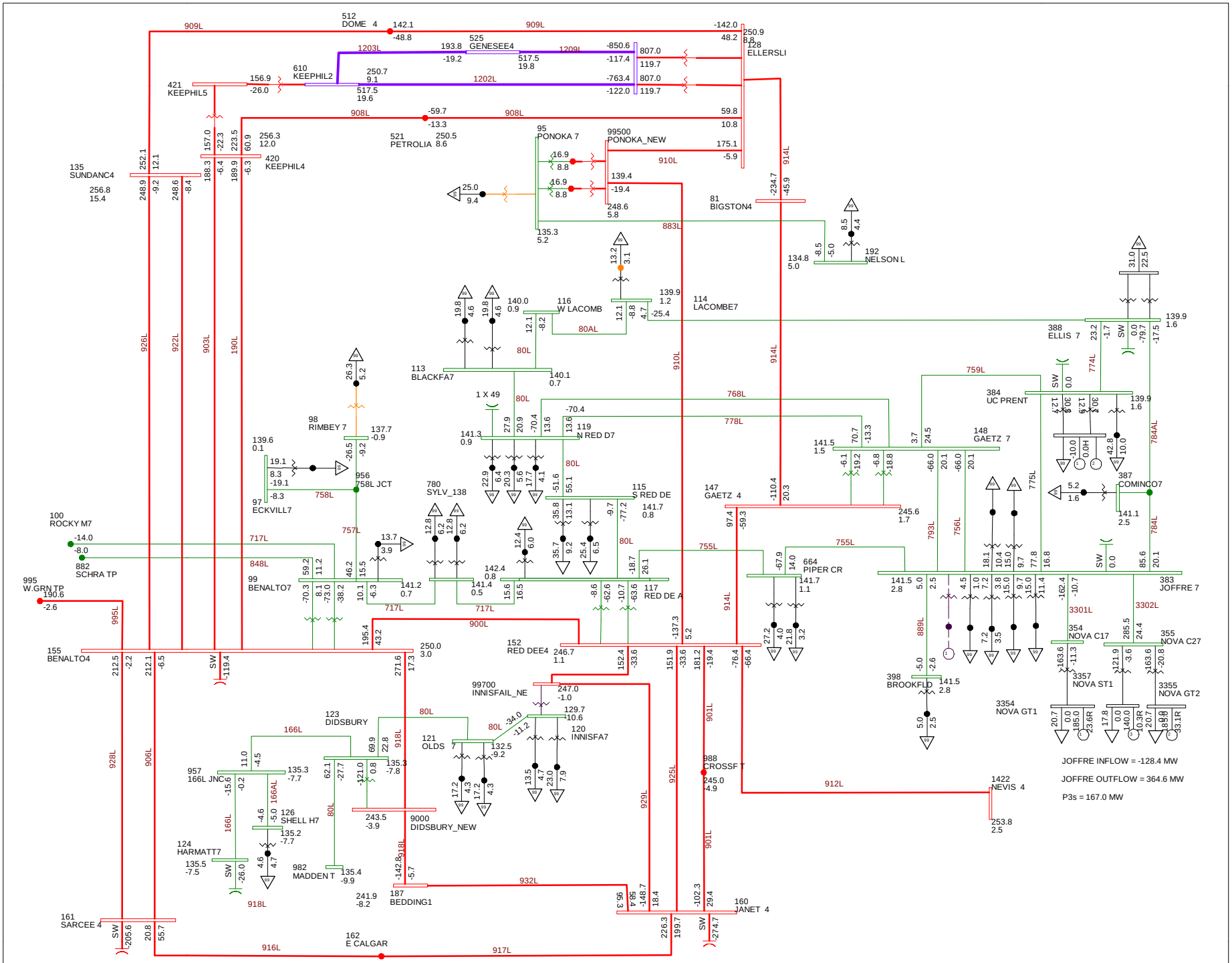
RED DEER REGION STUDY

2012 WINTER PEAK BASE CASE REVISION 6.5

FIG 2012-ALT2-LOAD-WP-27
240/138KV TRANSFORMER AT DIDSBURY SUB. (152S) OUTAGE
TUE, MAR 01 2011 13:29

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-229

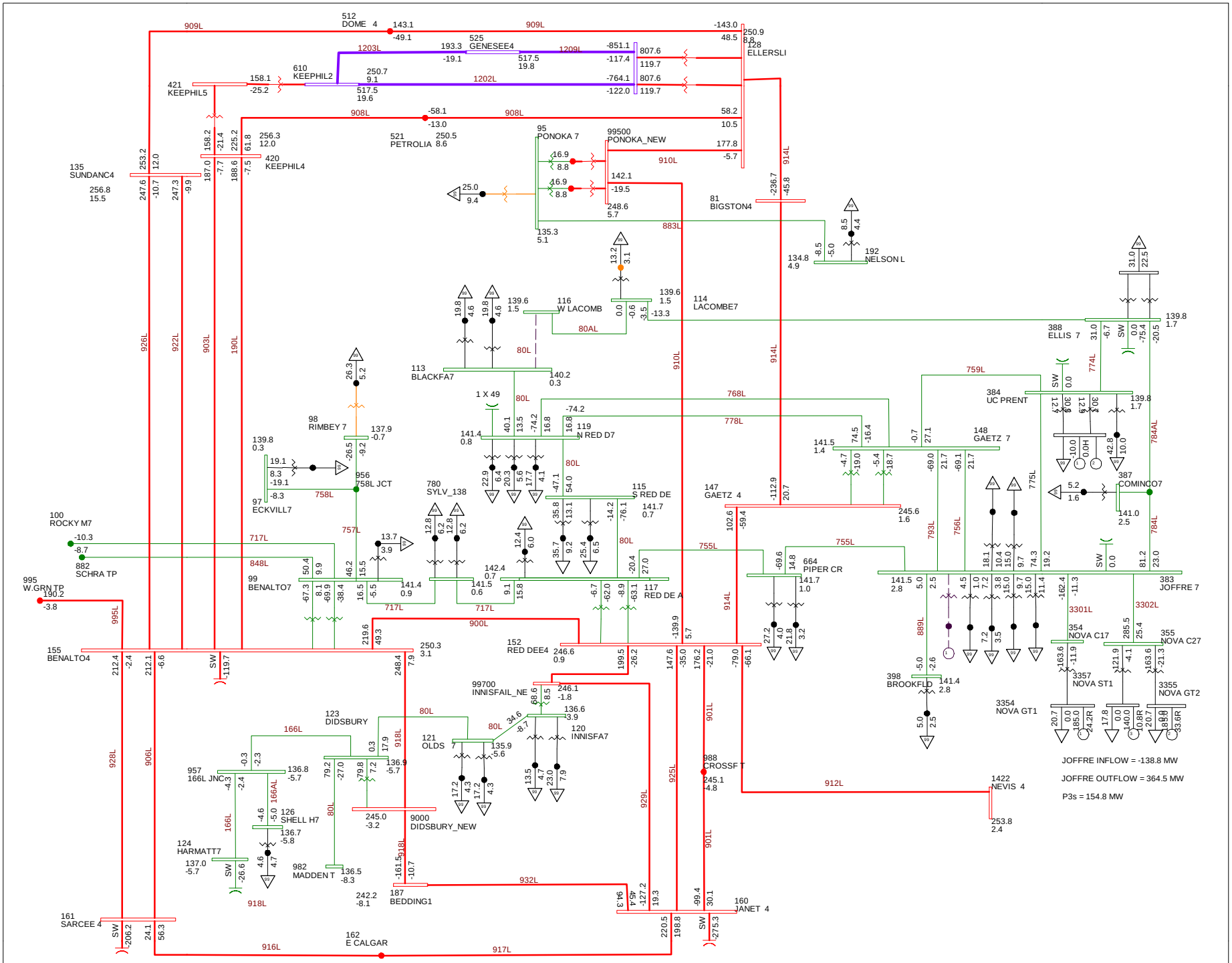


RED DEER REGION STUDY
2012 WINTER PEAK BASE CASE REVISION 6.5

FIG 2012-ALT2-LOAD-WP-28
240/138KV TRANSFORMER AT INNISFAIL 214S OUTAGE
TUE, MAR 01 2011 13:29

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-230

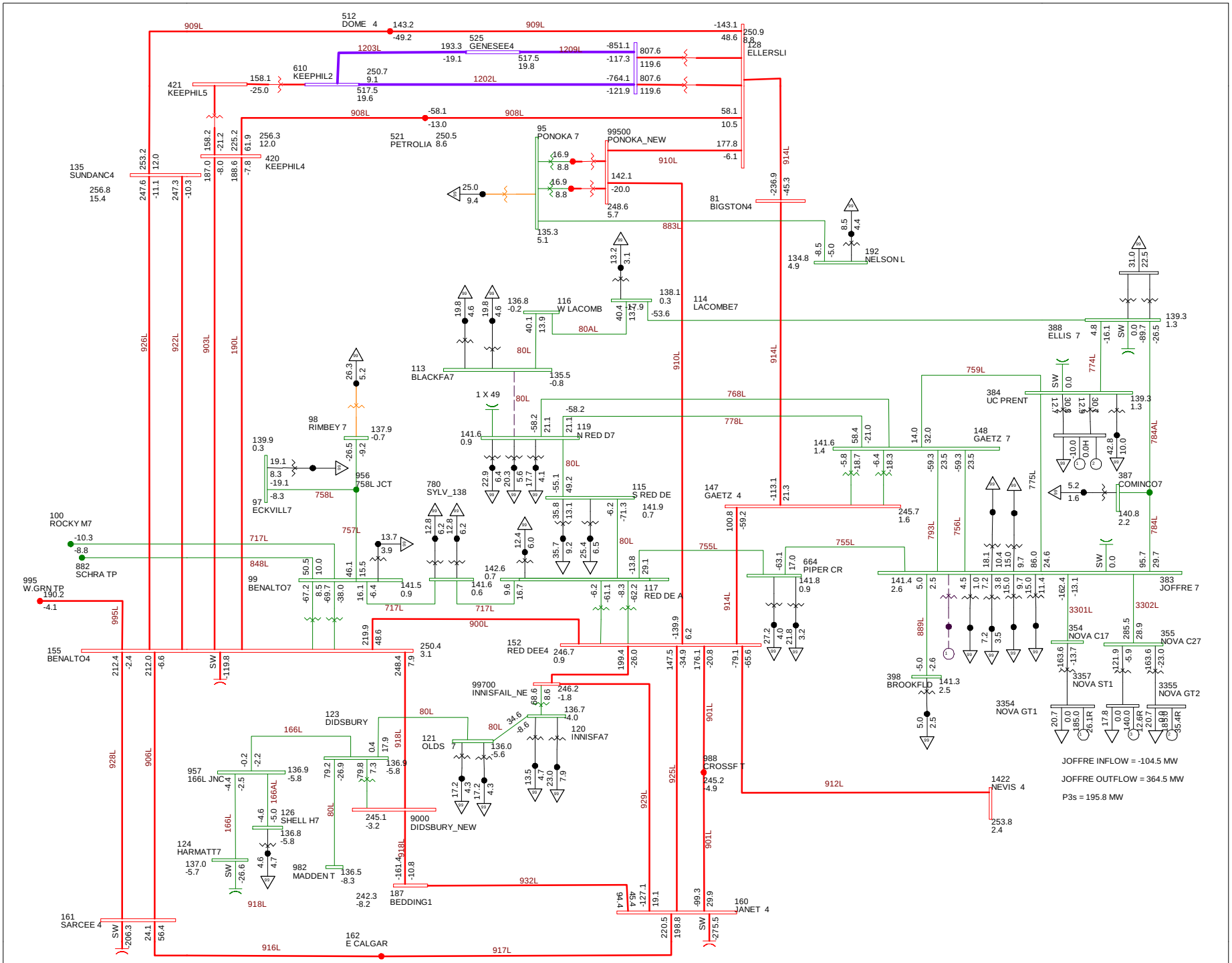


RED DEER REGION STUDY
2012 WINTER PEAK BASE CASE REVISION 6.5

FIG 2012-ALT2-LOAD-WP-29
138 KV 80L (W. LACOMBE 958S TO BLACKFALDS 198S) OUTAGE
TUE, MAR 01 2011 13:29

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-231

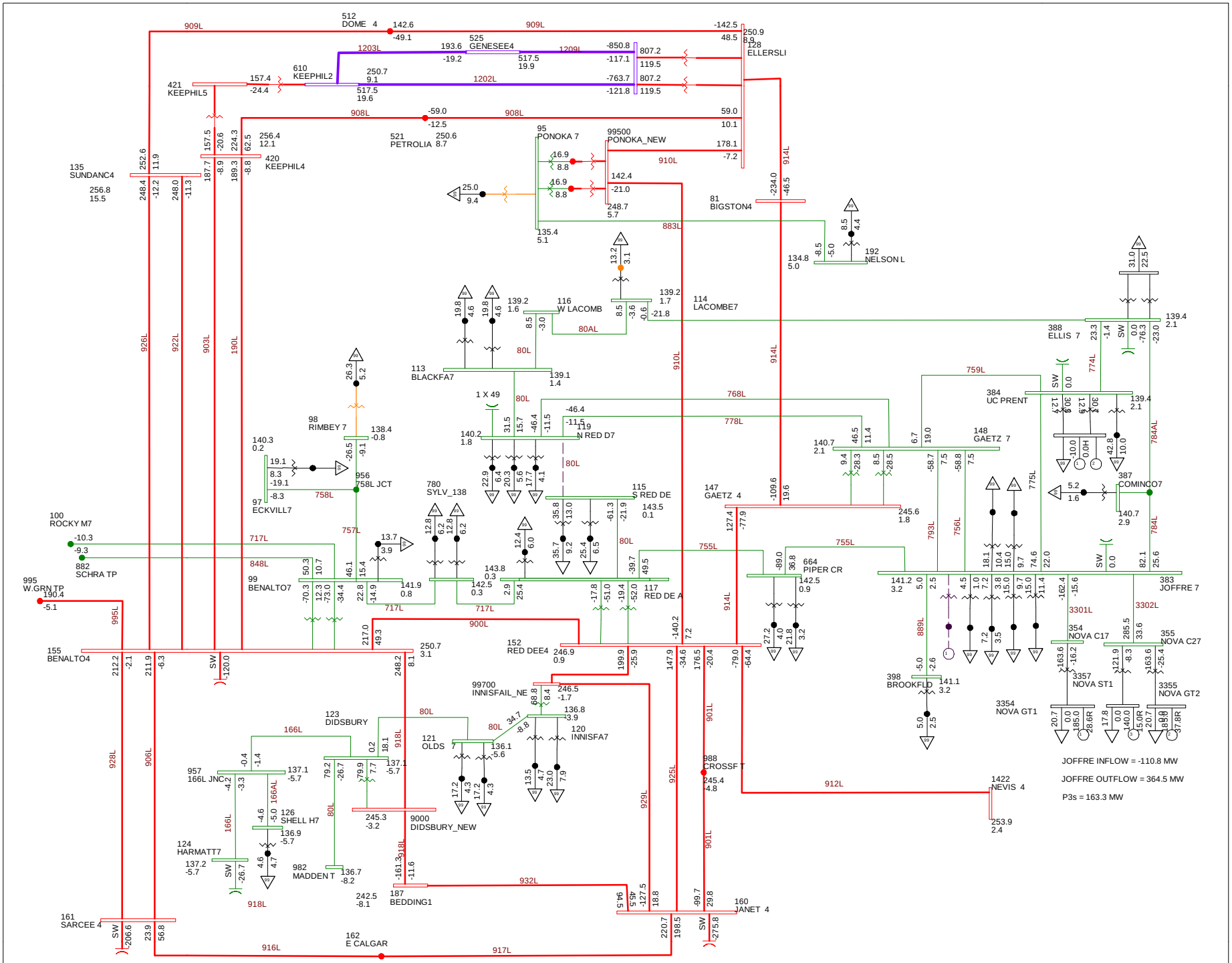


RED DEER REGION STUDY

2012 WINTER PEAK BASE CASE REVISION 6.5

FIG 2012-ALT2-LOAD-WP-30
138 KV 80L (BLACKFALDS 198S TO N. RED DEER 217S) OUTAGE
TUE, MAR 01 2011 13:29

D-2012-232



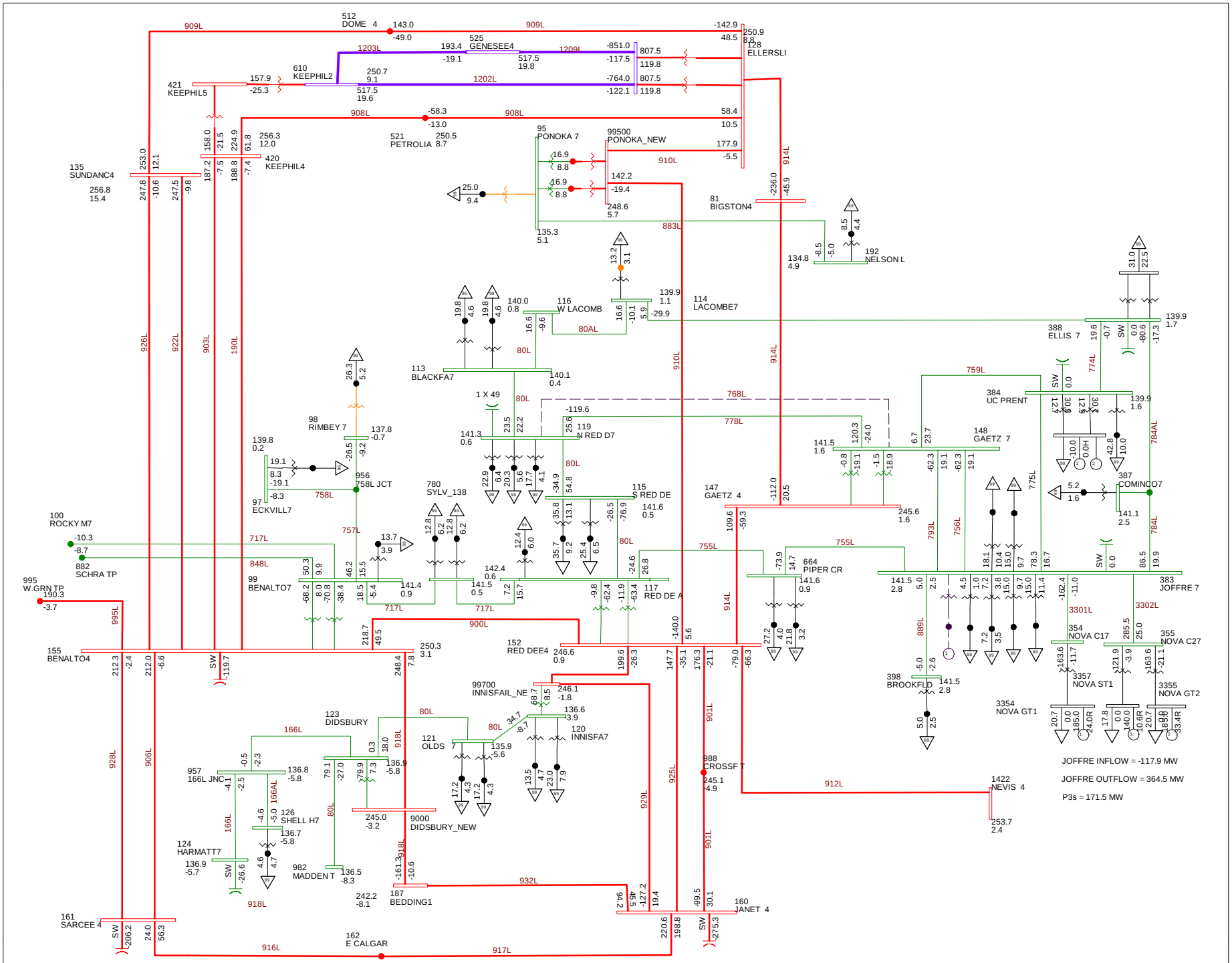
RED DEER REGION STUDY

2012 WINTER PEAK BASE CASE REVISION 6.5

FIG 2012-ALT2-LOAD-WP-31
138 KV 80L (N. RED DEER 217S TO S. RED DEER 194S) OUTAGE
TUE, MAR 01 2011 13:29

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-233



RED DEER REGION STUDY

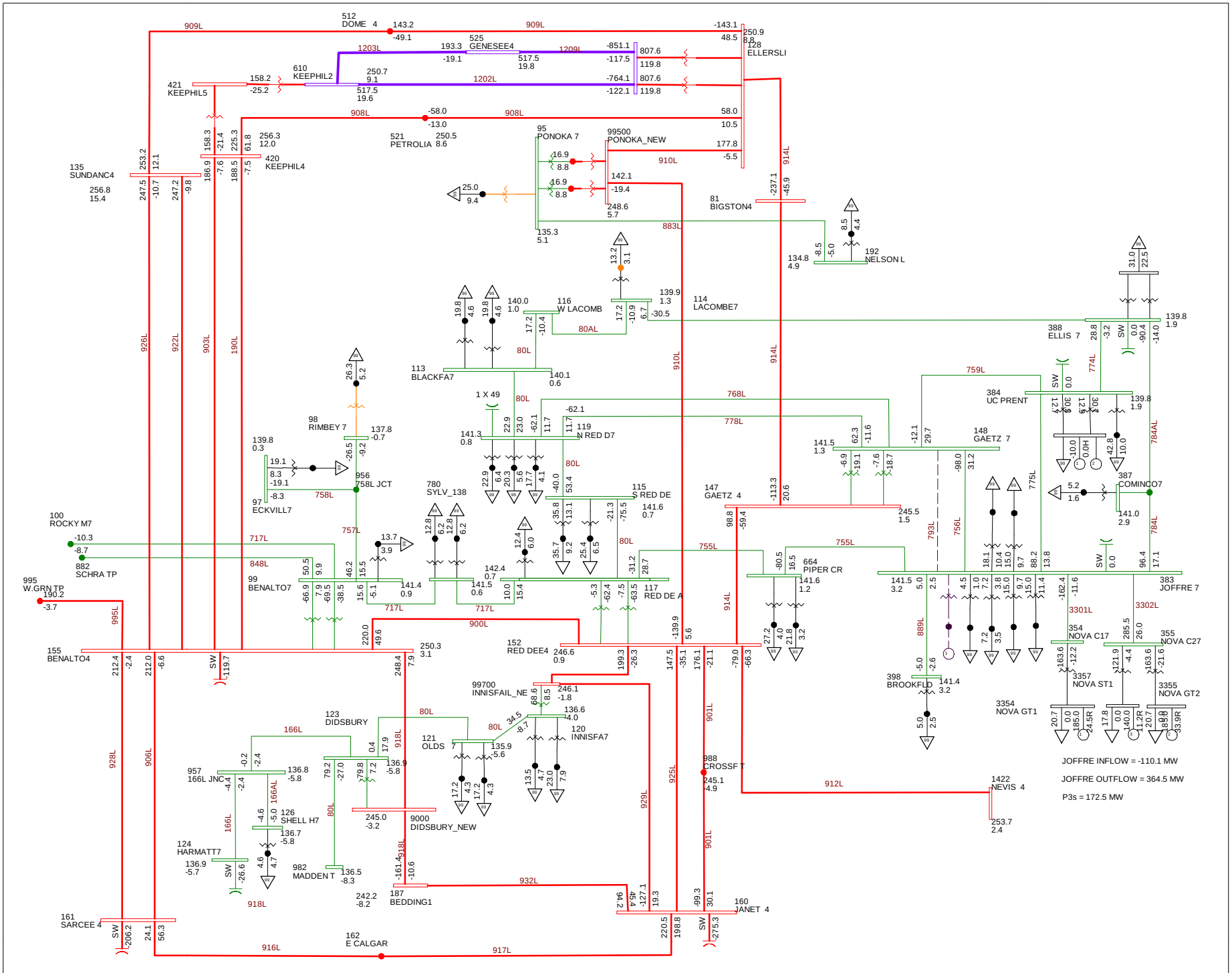
2012 WINTER PEAK BASE CASE REVISION 6.5

FIG 2012-ALT2-LOAD-WP-32
138 KV 768/778L (N. RED DEER 217S TO GAETZ 87S) OUTAGE
TUE, MAR 01 2011 13:29

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR

<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-234

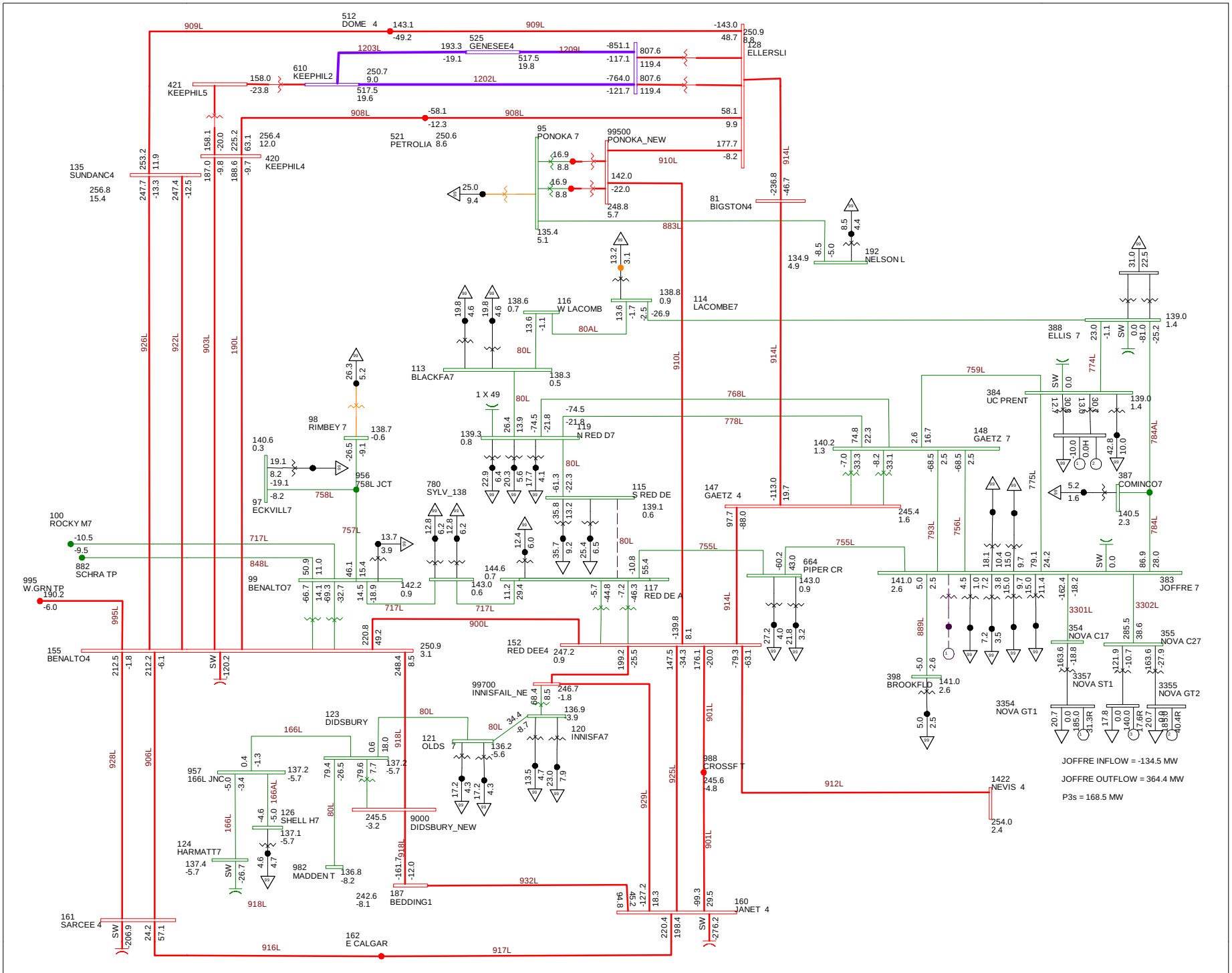


RED DEER REGION STUDY
2012 WINTER PEAK BASE CASE REVISION 6.5

FIG 2012-ALT2-LOAD-WP-33
138 KV 793/756L (GAETZ 87S TO JOFFRE 535S) OUTAGE
TUE, MAR 01 2011 13:30

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-235

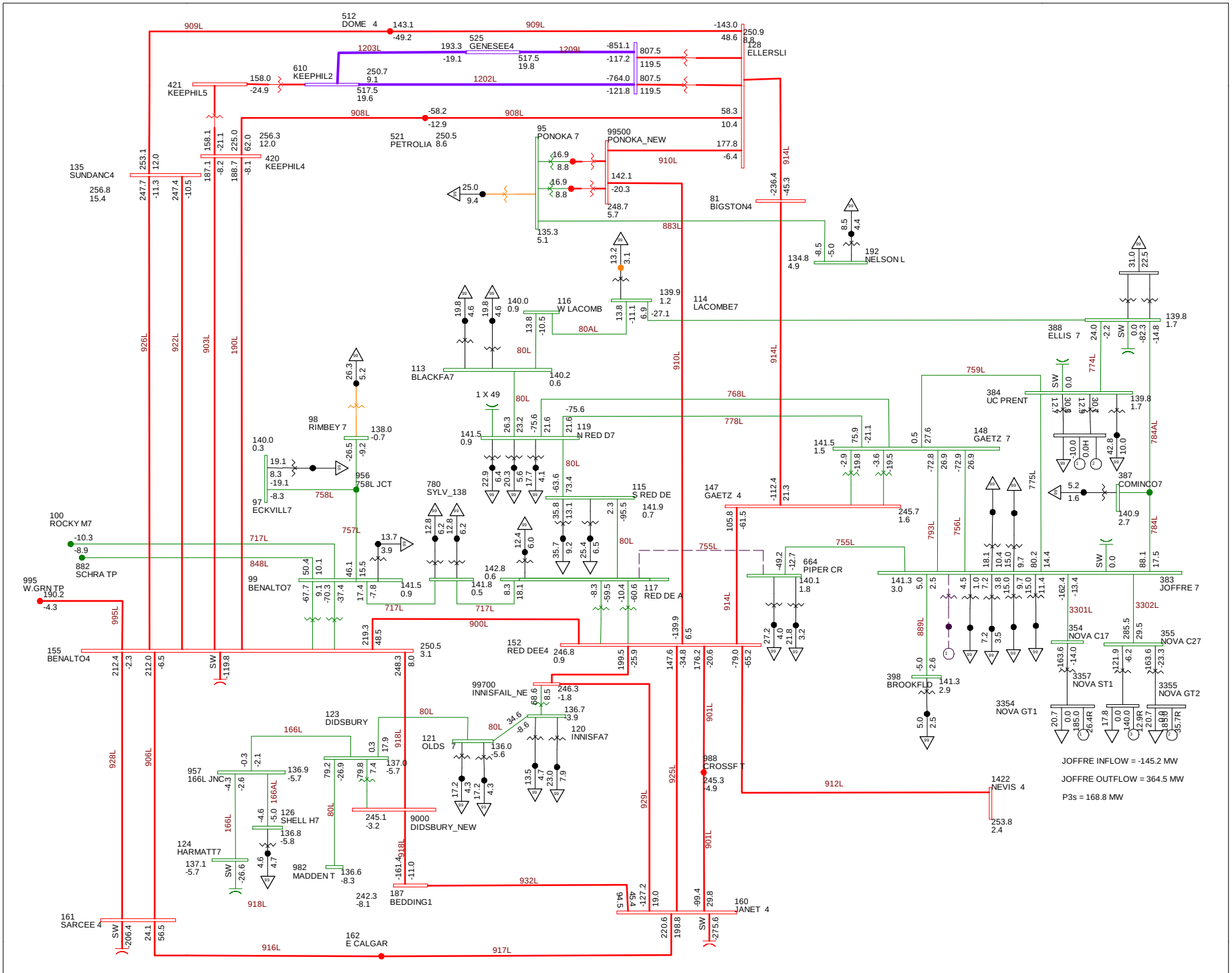


RED DEER REGION STUDY
2012 WINTER PEAK BASE CASE REVISION 6.5

FIG 2012-ALT2-LOAD-WP-34
138 KV 80L (S. RED DEER 194S TO RED DEER 63S) OUTAGE
TUE, MAR 01 2011 13:30

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-236



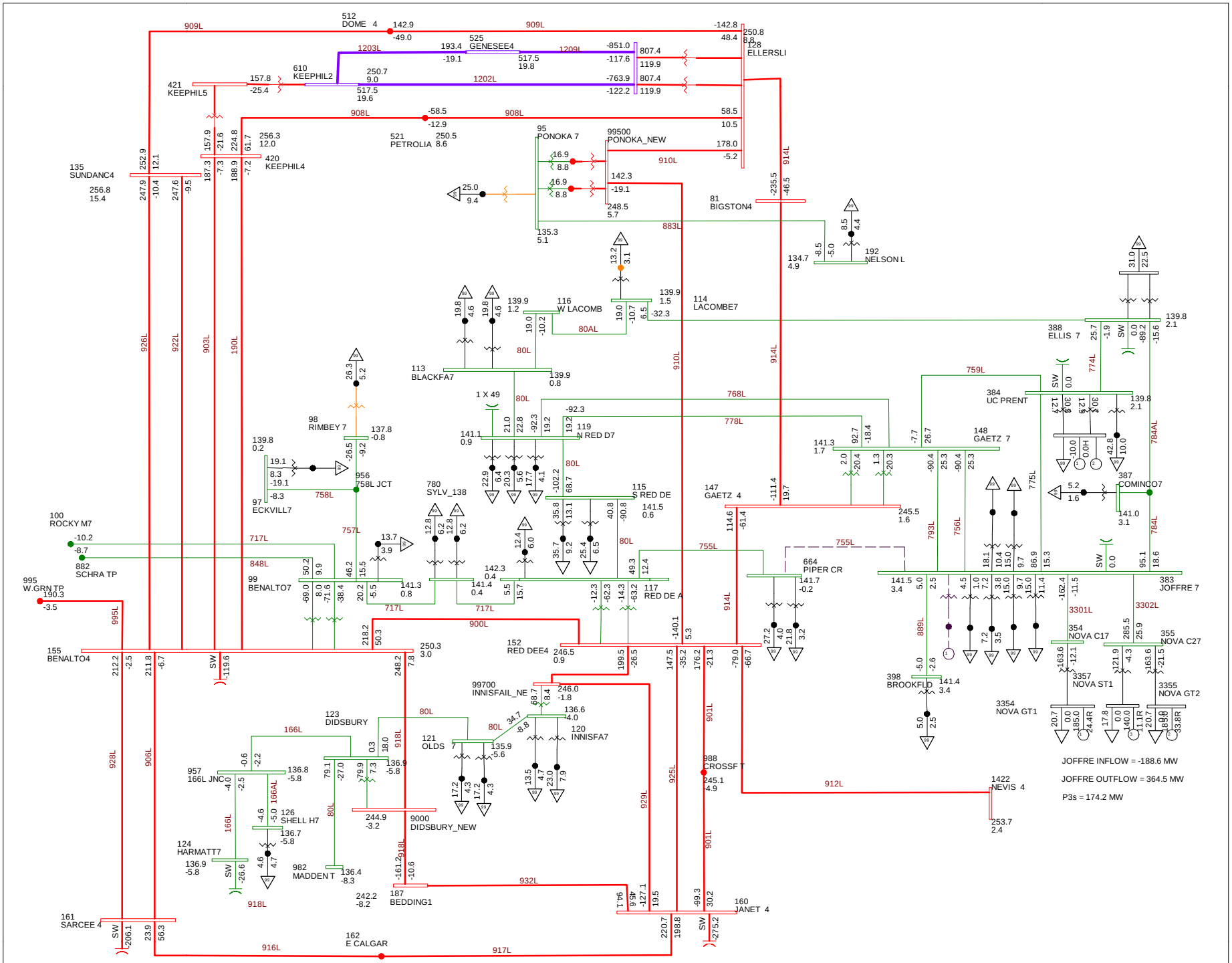
RED DEER REGION STUDY

2012 WINTER PEAK BASE CASE REVISION 6.5

FIG 2012-ALT2-LOAD-WP-35
138 KV 755L (RED DEER 63S TO PIPER CREEK 247S) OUTAGE
TUE, MAR 01 2011 13:30

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-237

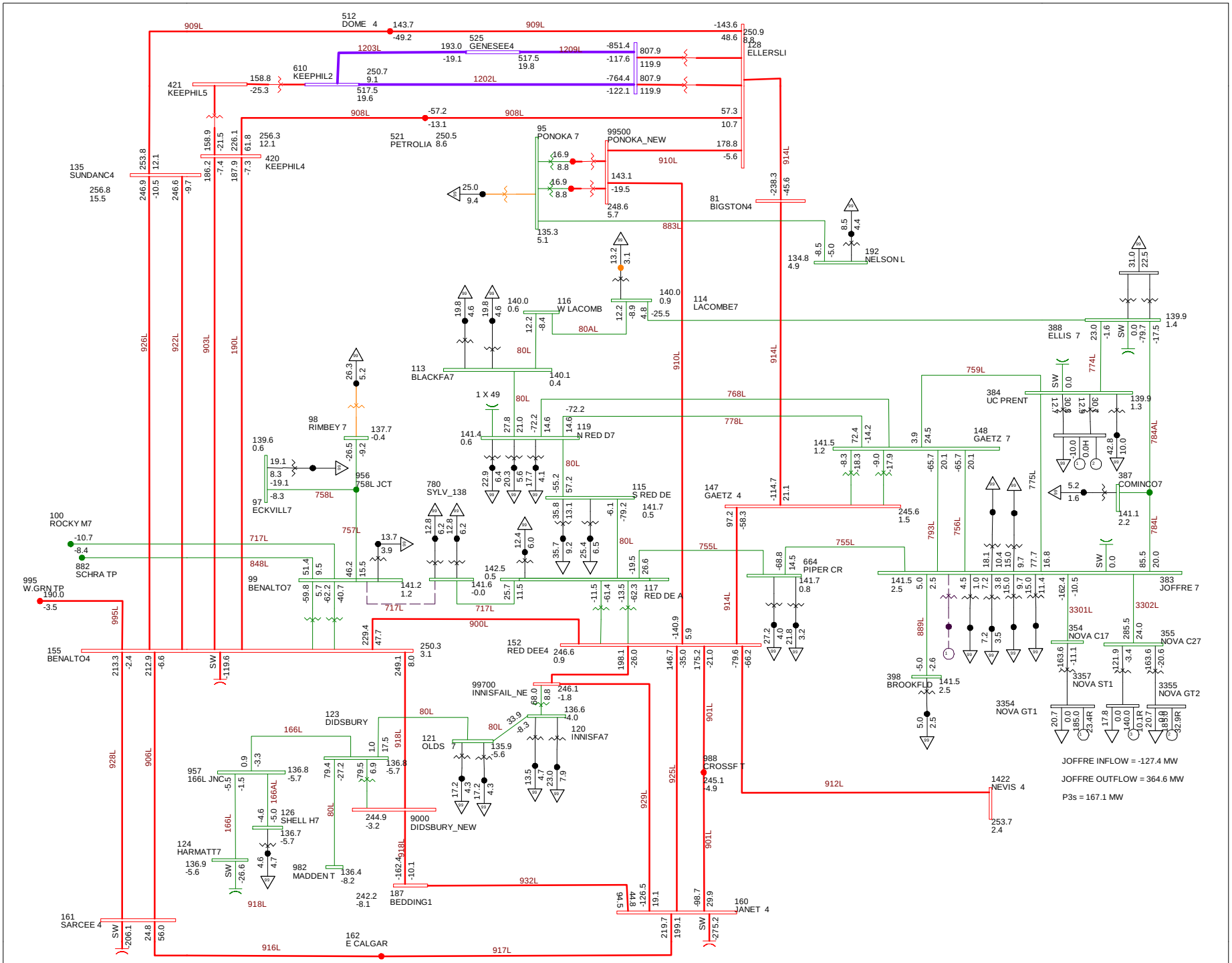


RED DEER REGION STUDY
2012 WINTER PEAK BASE CASE REVISION 6.5

FIG 2012-ALT2-LOAD-WP-36
138 KV 755L (JOFFRE 535S TO PIPER CREEK 247S) OUTAGE
TUE, MAR 01 2011 13:30

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-238

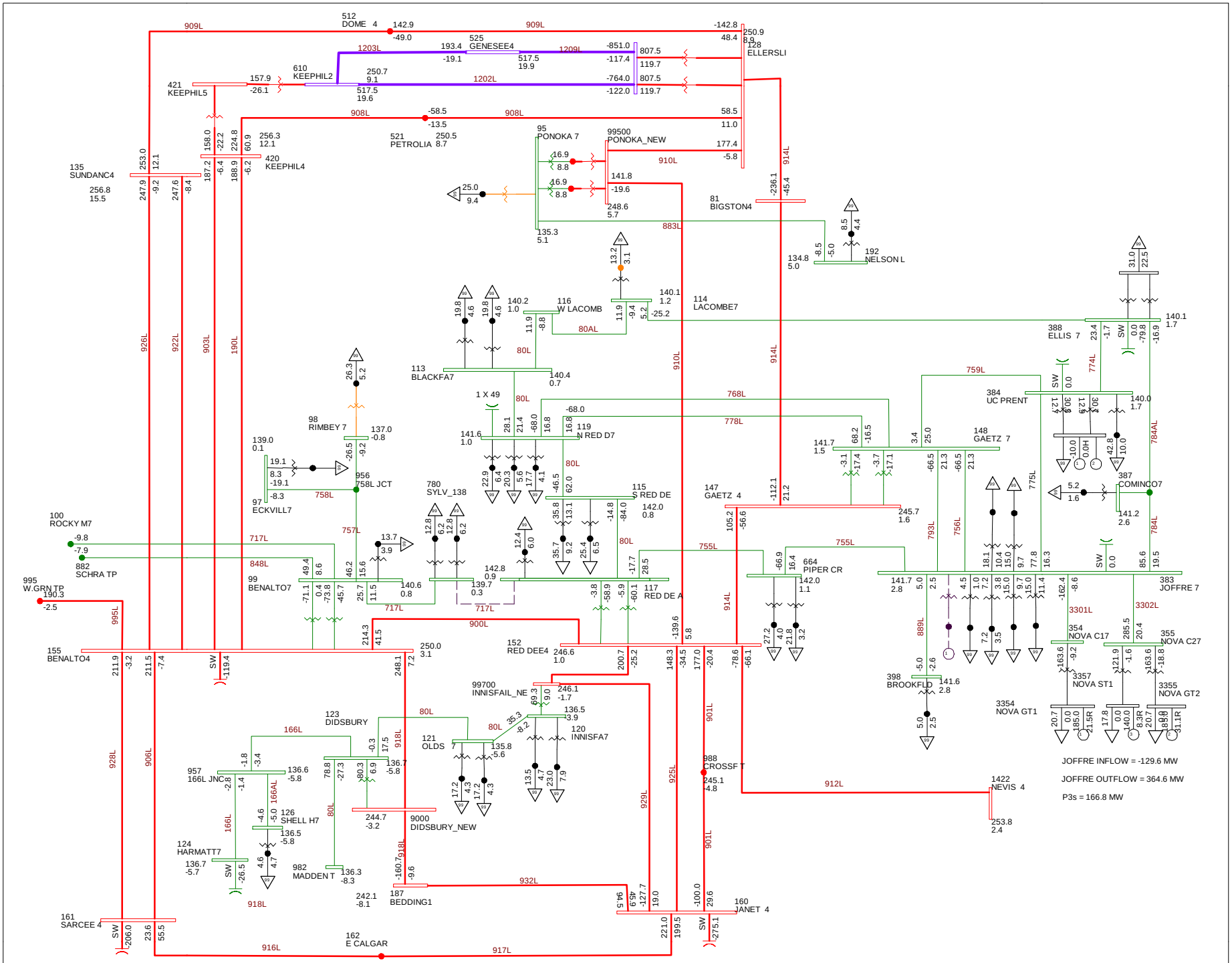


RED DEER REGION STUDY
2012 WINTER PEAK BASE CASE REVISION 6.5

FIG 2012-ALT2-LOAD-WP-37
138 KV 717L (BENALTO 17S TO SYLVAN LAKE 580S) OUTAGE
TUE, MAR 01 2011 13:30

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-239



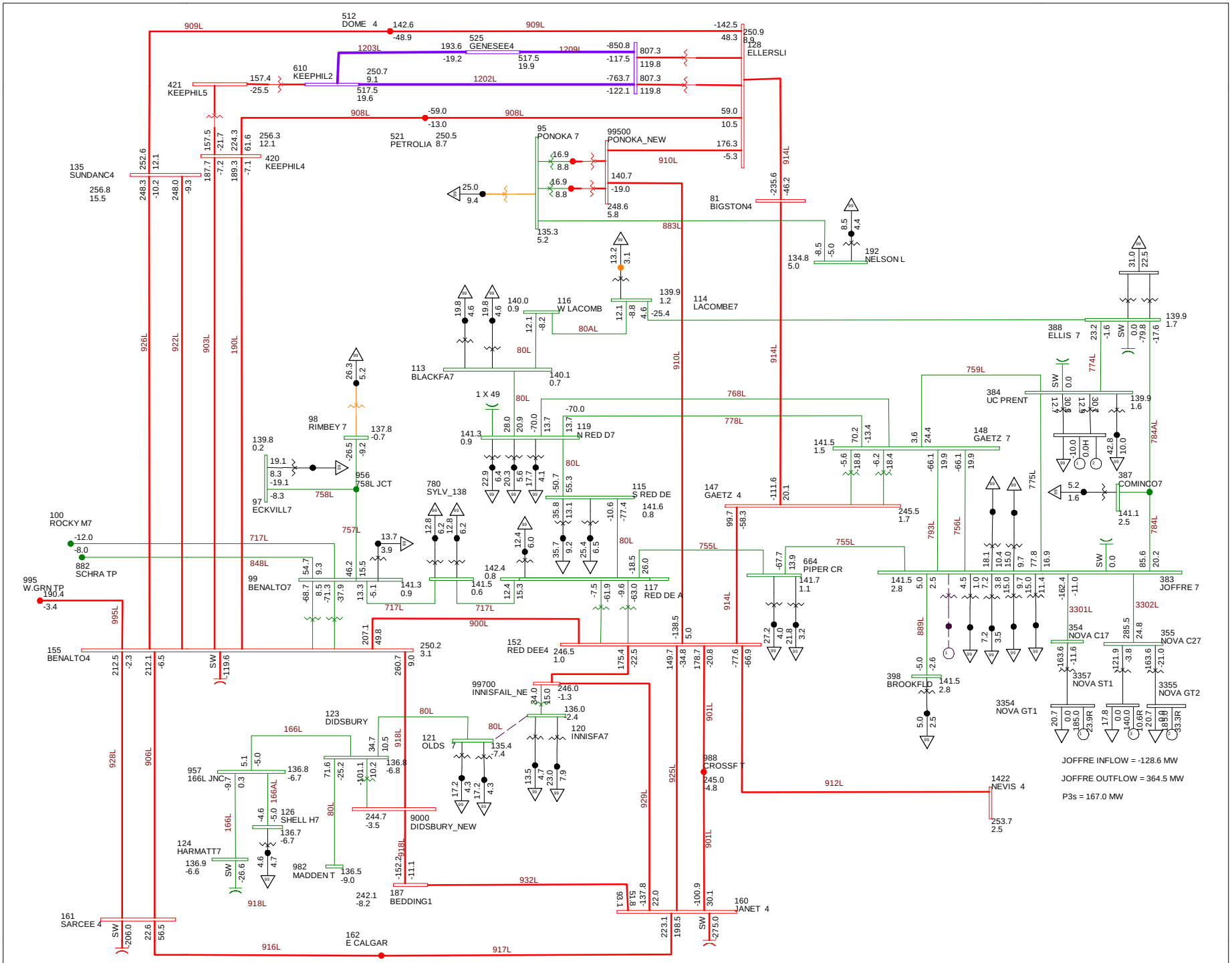
RED DEER REGION STUDY

2012 WINTER PEAK BASE CASE REVISION 6.5

FIG 2012-ALT2-LOAD-WP-38
138 KV 717L (RED DEER 63S TO SYLVAN LAKE 580S) OUTAGE
TUE, MAR 01 2011 13:30

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-240



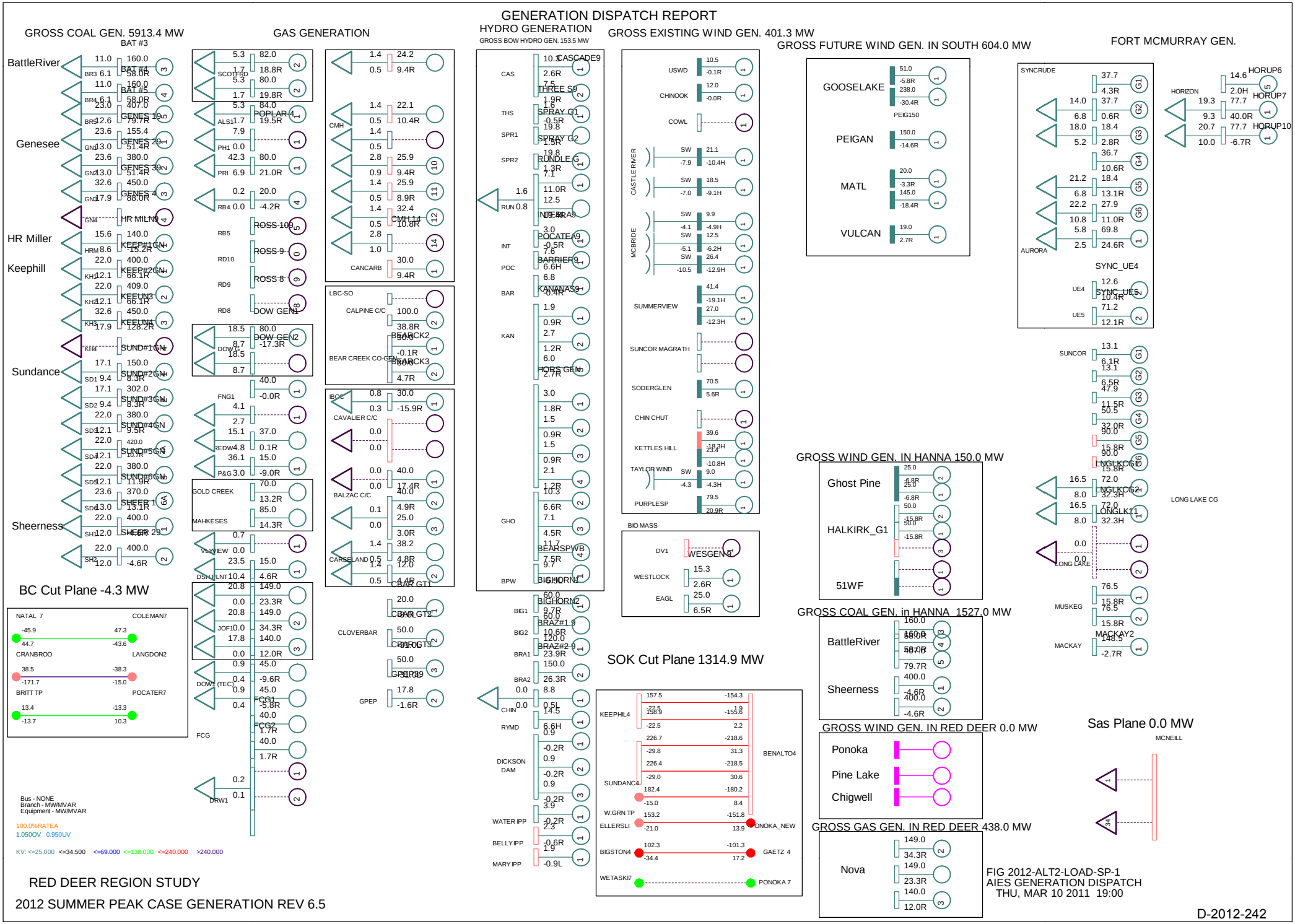
RED DEER REGION STUDY
2012 WINTER PEAK BASE CASE REVISION 6.5

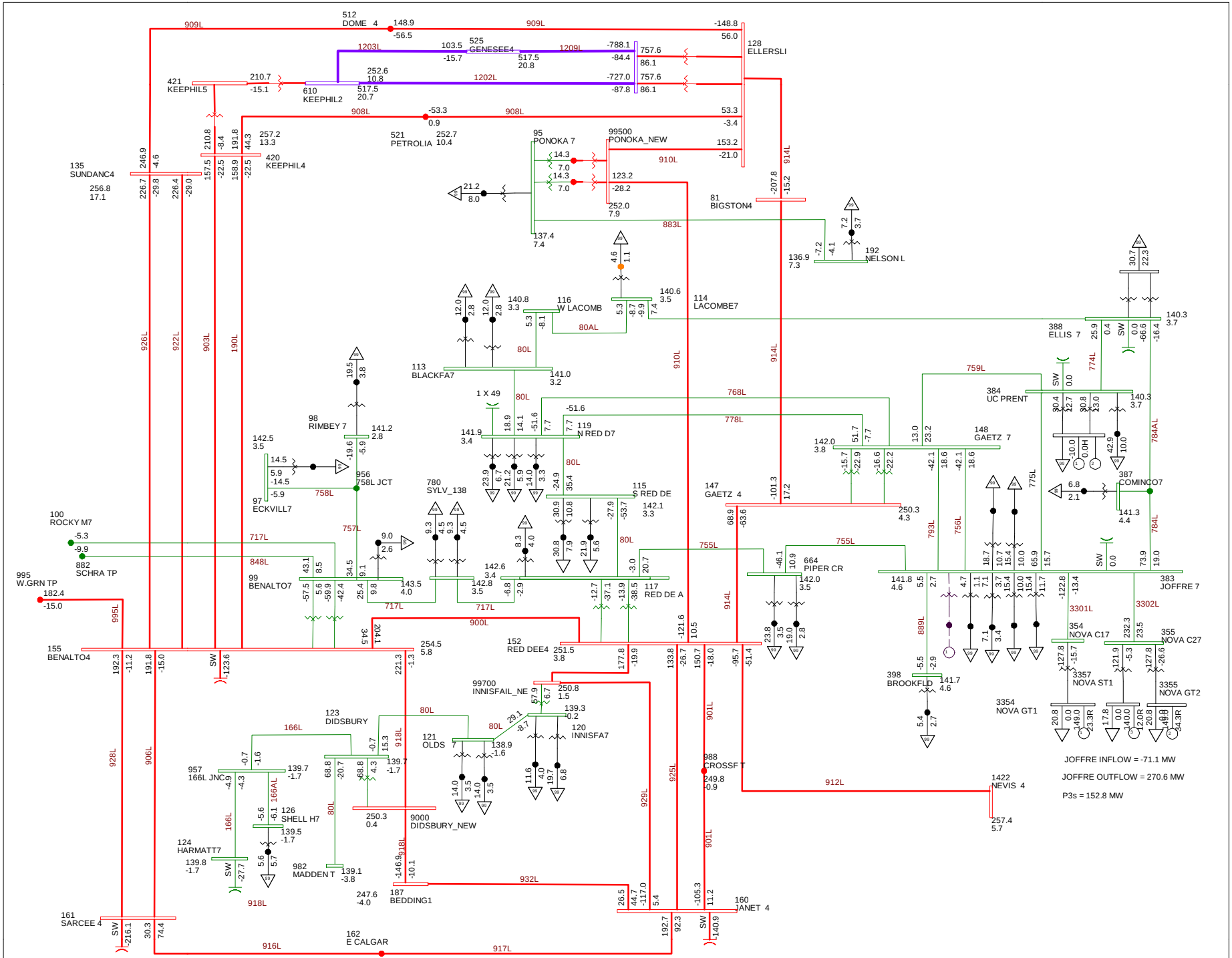
FIG 2012-ALT2-LOAD-WP-39
138 KV 80L (INNISFAIL 214S TO OLDS 55S) OUTAGE
TUE, MAR 01 2011 13:30

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-241

GENERATION DISPATCH REPORT





RED DEER REGION STUDY

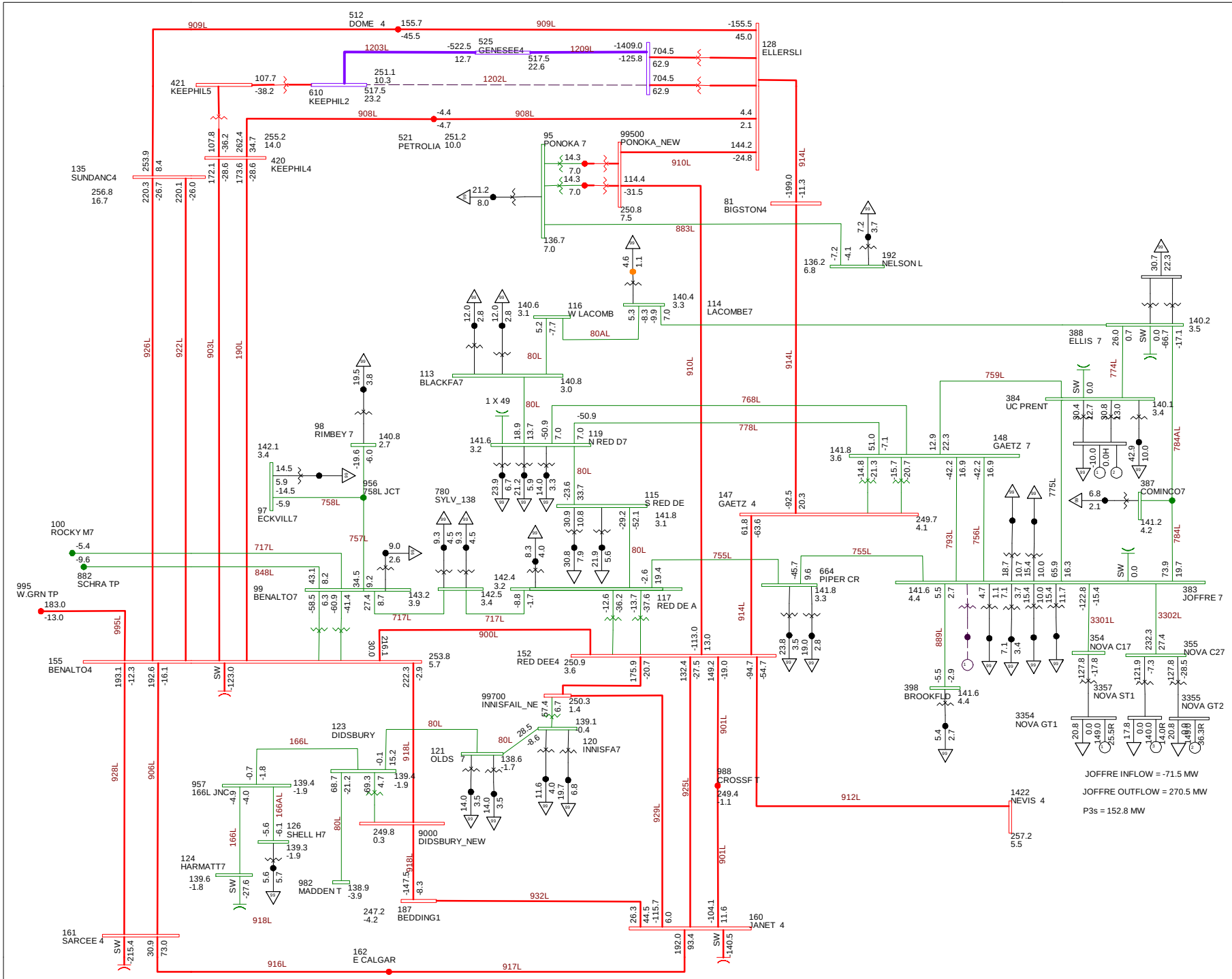
2012 SUMMER PEAK BASE CASE REVISION 6.5

FIG 2012-ALT2-LOAD-SP-2
ALL ELEMENTS IN SERVICE
TUE, MAR 01 2011 12:58

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR

<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-243



RED DEER REGION STUDY

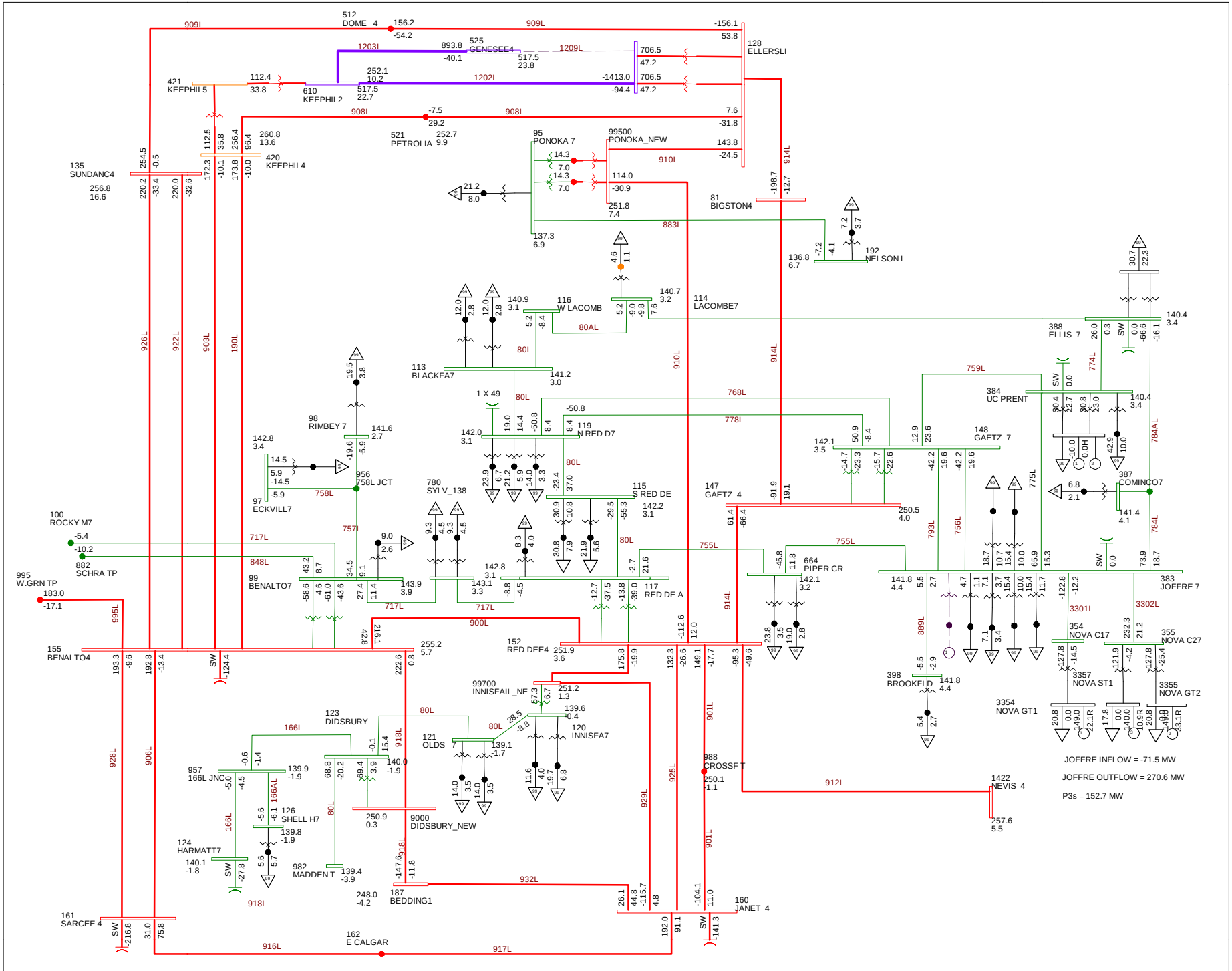
2012 SUMMER PEAK BASE CASE REVISION 6.5

FIG 2012-ALT2-LOAD-SP-3
500KV 1202L (ELLERSLIE 89S TO KEEPHILLS 320P) OUTAGE
TUE, MAR 01 2011 12:58

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR

<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-244

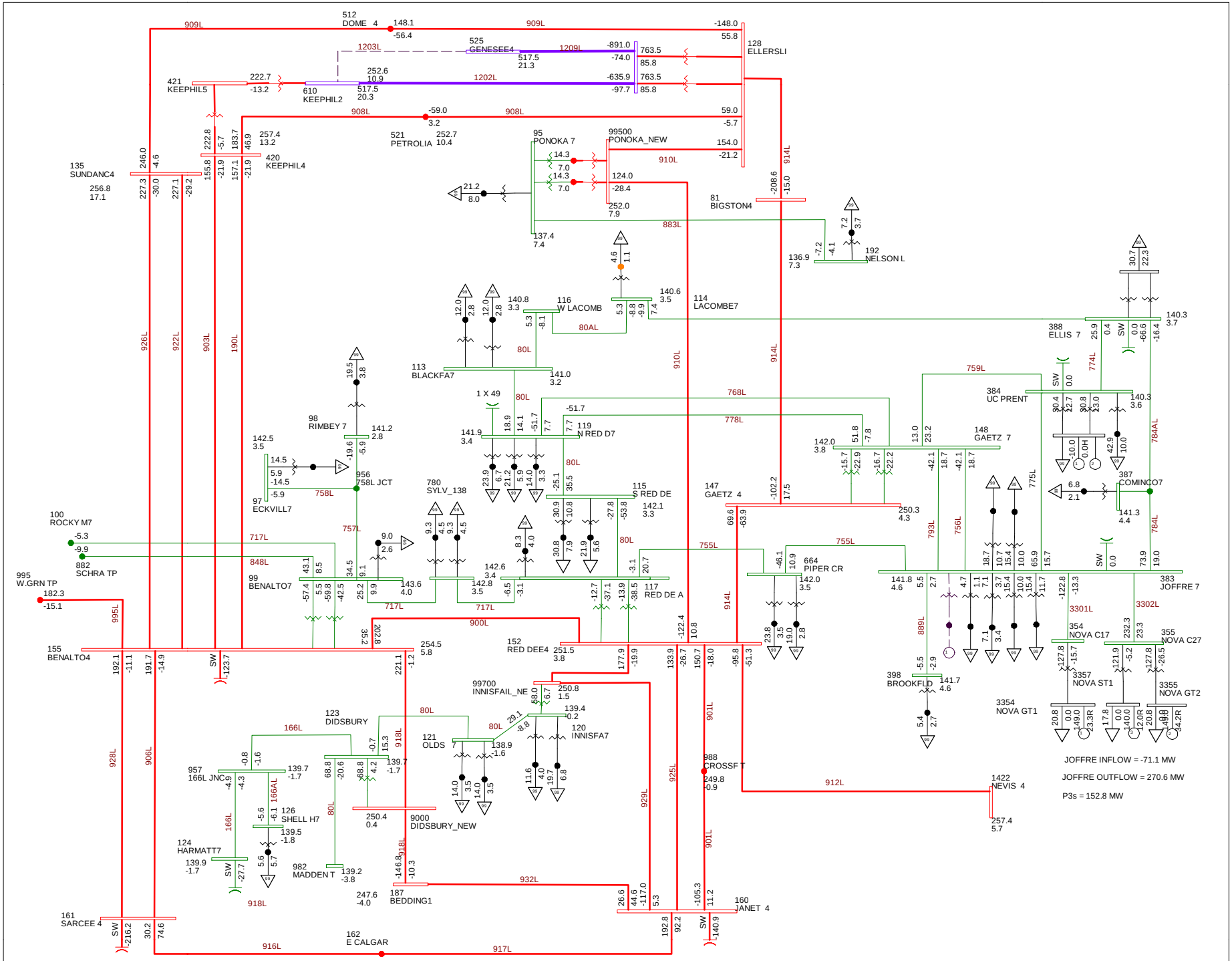


RED DEER REGION STUDY

2012 SUMMER PEAK BASE CASE REVISION 6.5

FIG 2012-ALT2-LOAD-SP-4
500KV 1209L (ELLERSLIE 89S TO GENESEE E330P) OUTAGE
TUE, MAR 01 2011 12:58

D-2012-245



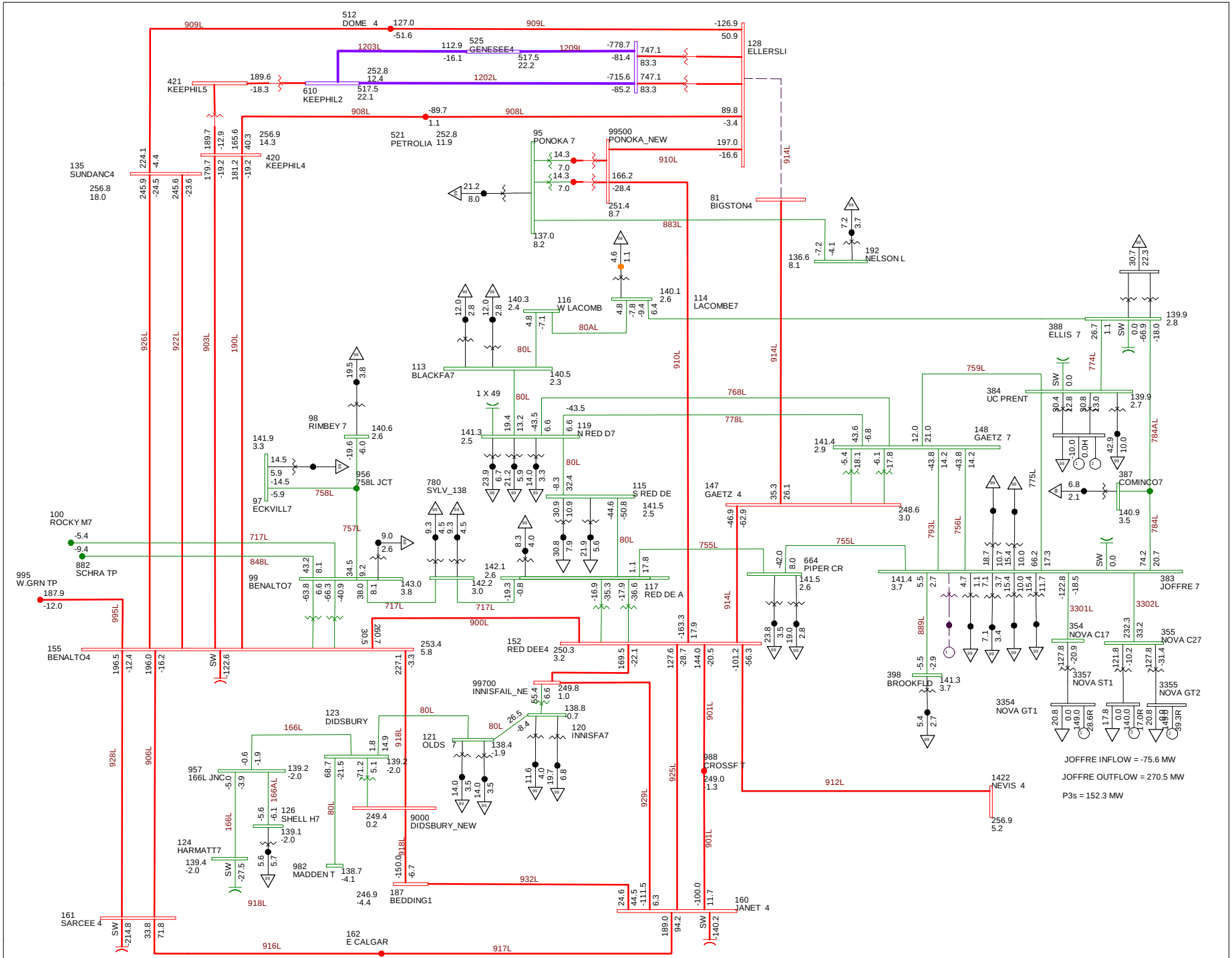
RED DEER REGION STUDY

2012 SUMMER PEAK BASE CASE REVISION 6.5

FIG 2012-ALT2-LOAD-SP-5
500KV 1203L (GENESEE E330P TO KEEPHILLS 320P) OUTAGE
TUE, MAR 012011 12:58

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-246



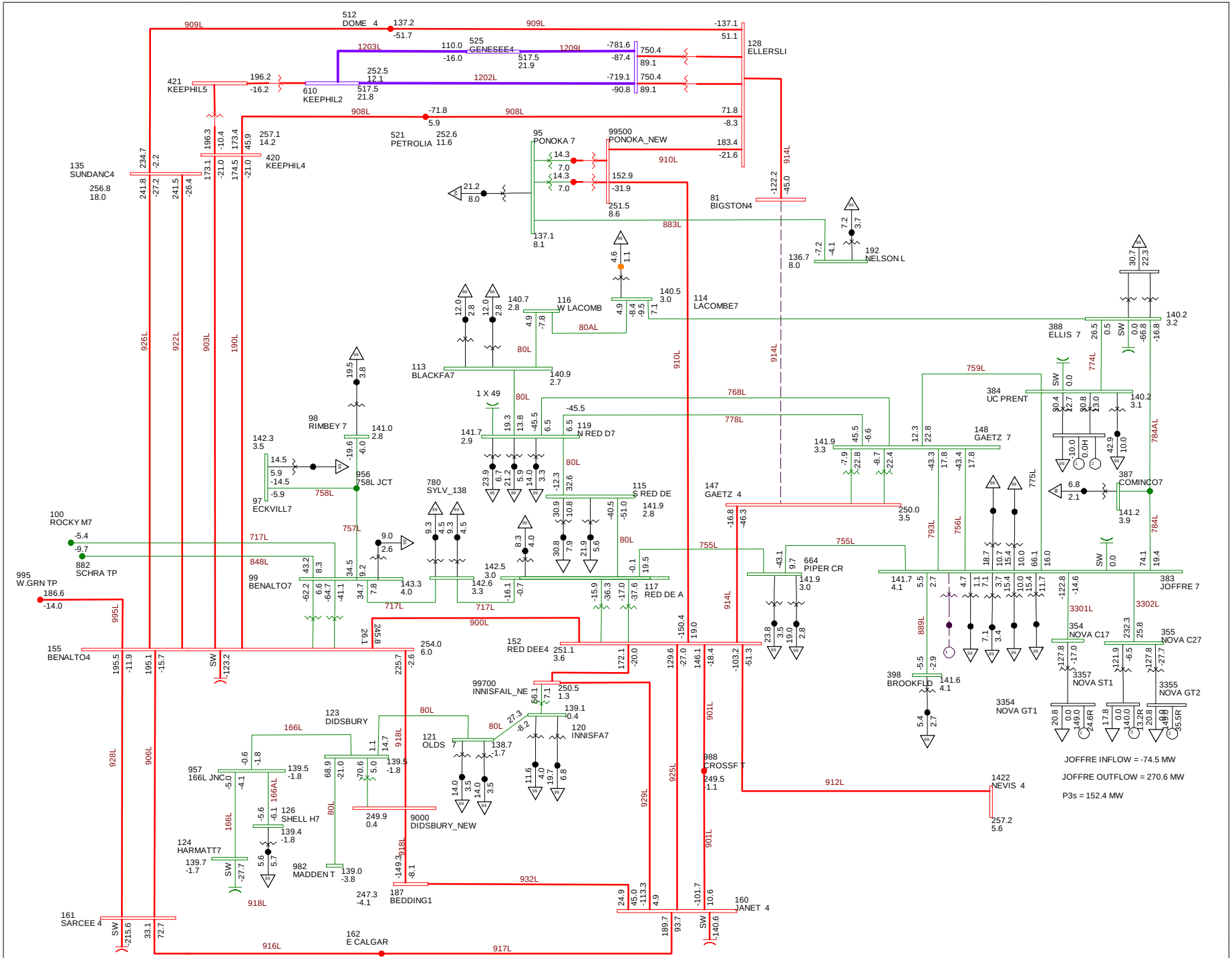
RED DEER REGION STUDY

2012 SUMMER PEAK BASE CASE REVISION 6.5

FIG 2012-ALT2-LOAD-SP-6
240KV 914L (ELLERSLIE 89S TO BIGSTONE 86S) OUTAGE
TUE, MAR 01 2011 12:58

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR

D-2012-247



RED DEER REGION STUDY

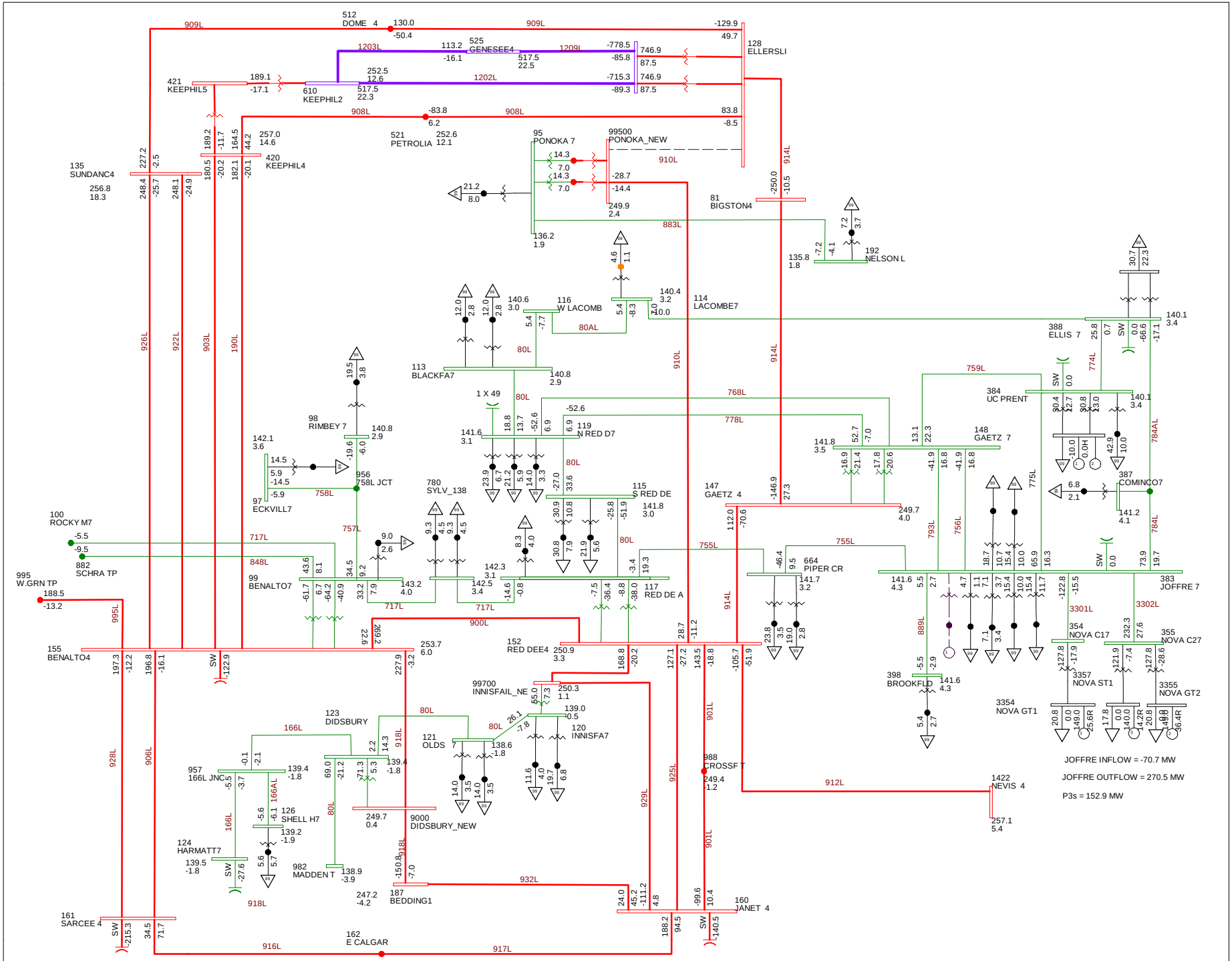
2012 SUMMER PEAK BASE CASE REVISION 6.5

FIG 2012-ALT2-LOAD-SP-7
240KV 914L (BIGSTONE 86S TO GAETZ 87S) OUTAGE
TUE, MAR 01 2011 12:58

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR

<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-248



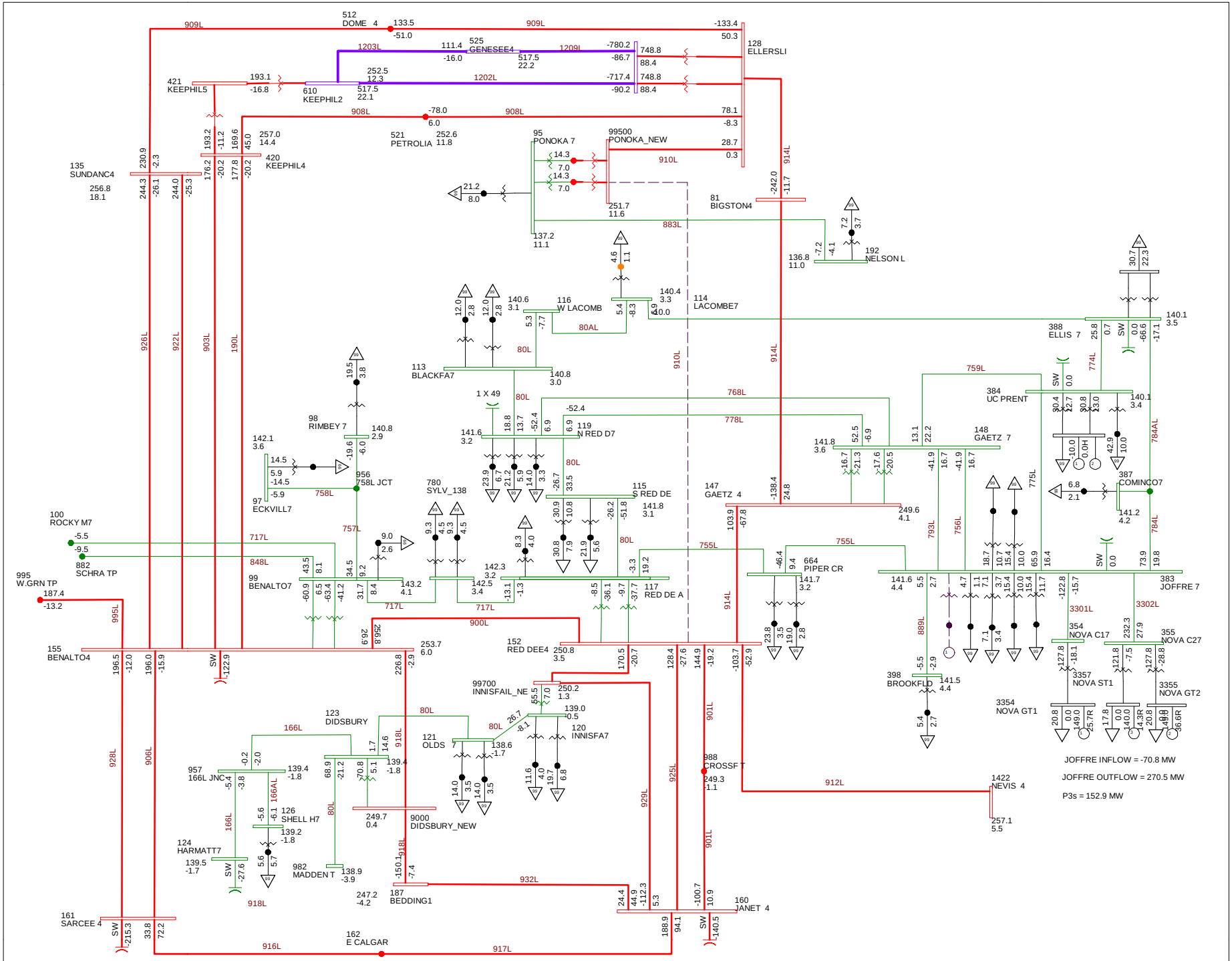
RED DEER REGION STUDY

2012 SUMMER PEAK BASE CASE REVISION 6.5

FIG 2012-ALT2-LOAD-SP-8
240KV 910L (ELLERSLIE 89S TO PONOKA 331S) OUTAGE
TUE, MAR 01 2011 12:58

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-249



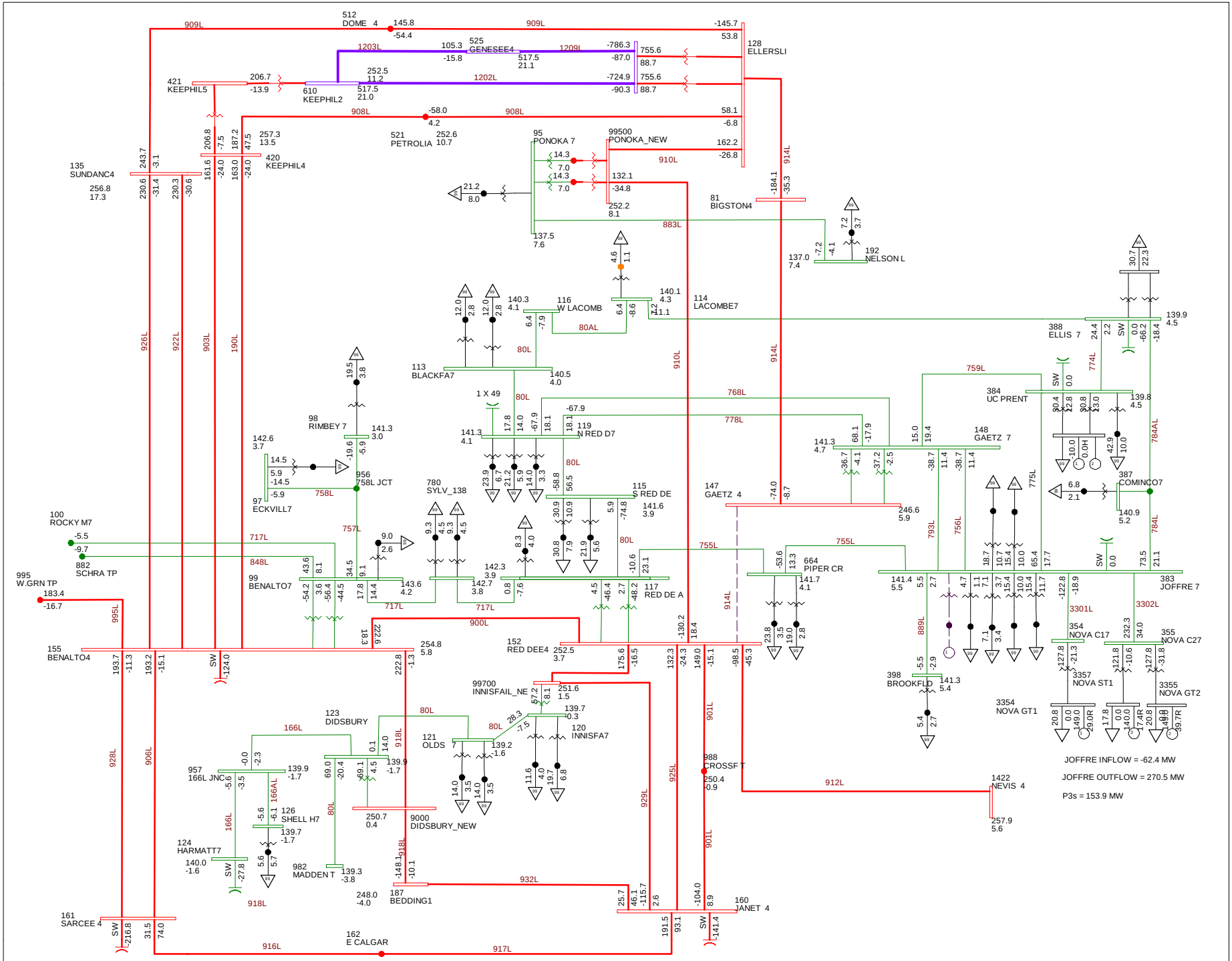
RED DEER REGION STUDY

2012 SUMMER PEAK BASE CASE REVISION 6.5

FIG 2012-ALT2-LOAD-SP-9
240KV 910L (PONOKA 331S TO RED DEER 63S) OUTAGE
TUE, MAR 01 2011 12:58

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR

D-2012-250



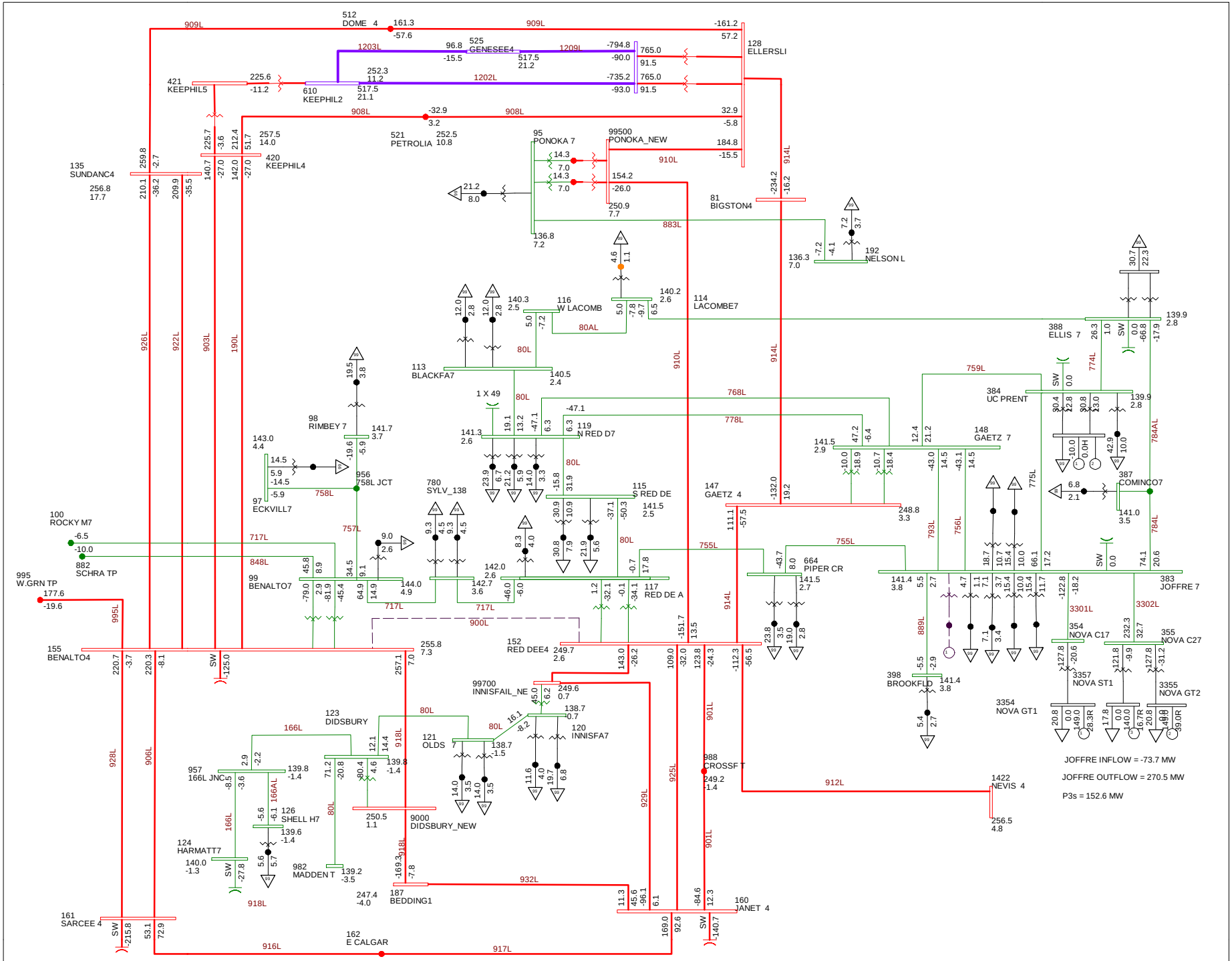
RED DEER REGION STUDY

2012 SUMMER PEAK BASE CASE REVISION 6.5

FIG 2012-ALT2-LOAD-SP-10
240KV 914L (GAETZ 87S TO RED DEER 63S) OUTAGE
TUE, MAR 01 2011 12:58

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-251



RED DEER REGION STUDY

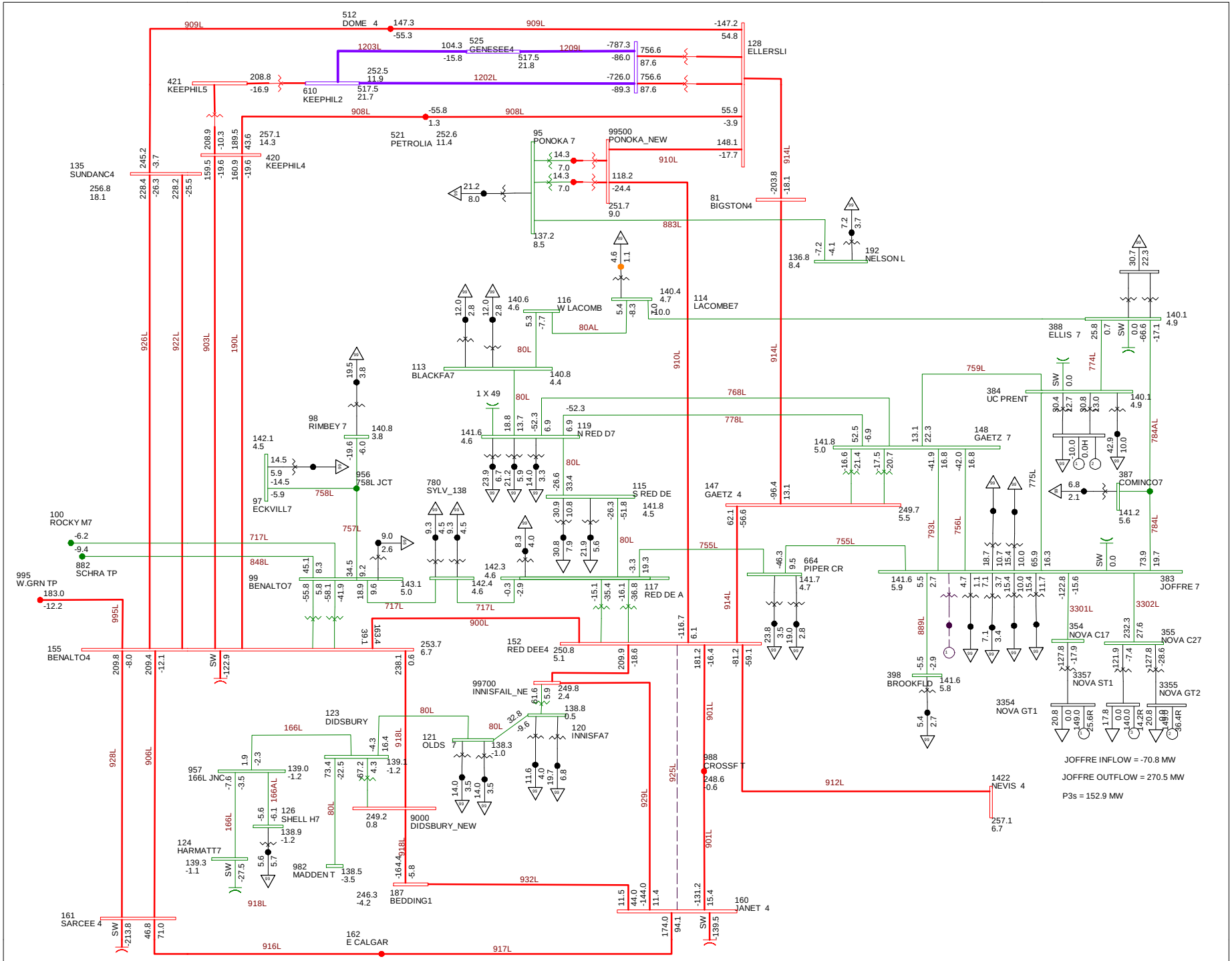
2012 SUMMER PEAK BASE CASE REVISION 6.5

FIG 2012-ALT2-LOAD-SP-11
240KV 900L (RED DEER 63S TO BENALTO 17S) OUTAGE
TUE, MAR 01 2011 12:58

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR

<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-252



RED DEER REGION STUDY

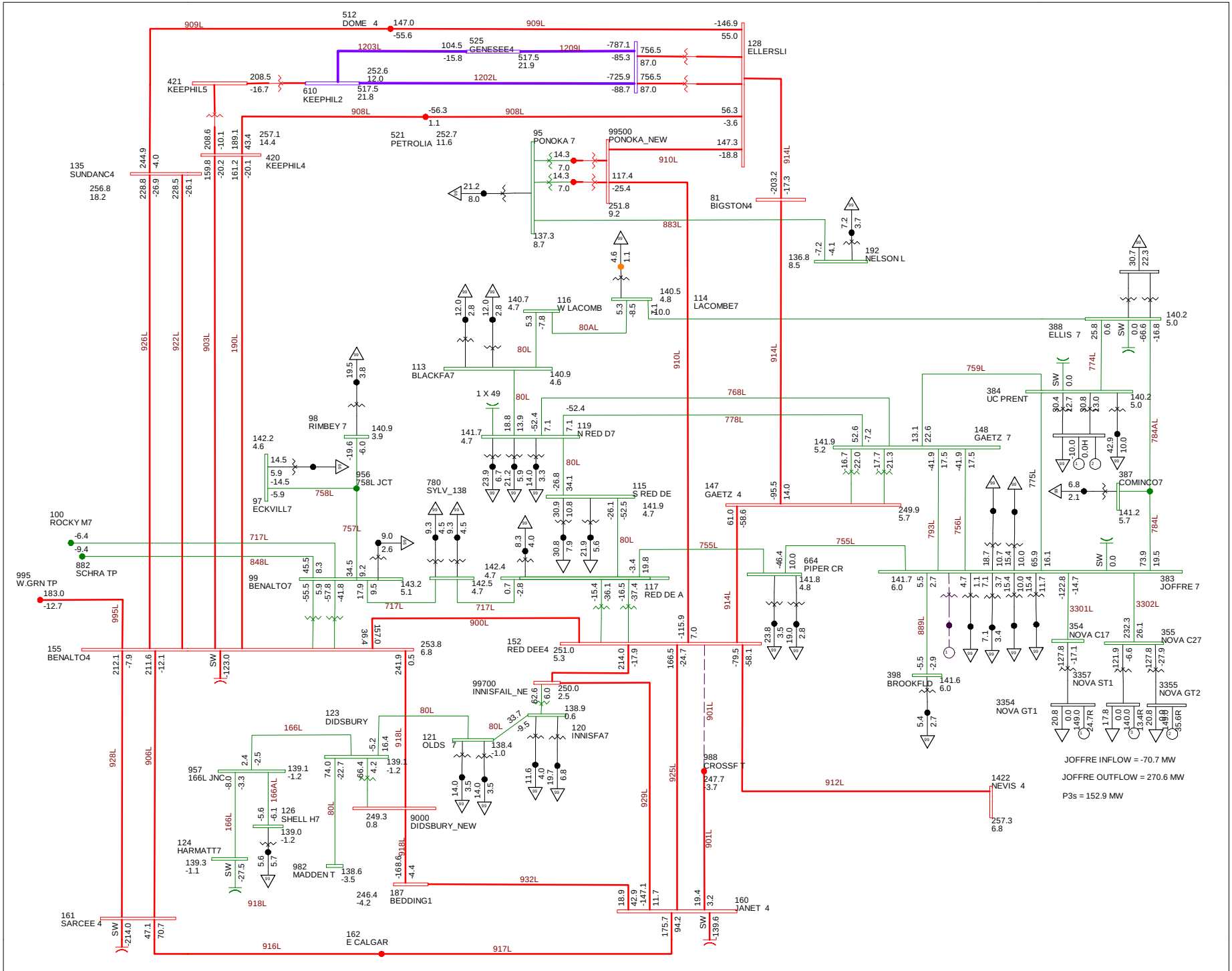
2012 SUMMER PEAK BASE CASE REVISION 6.5

FIG 2012-ALT2-LOAD-SP-12
240KV 925L (RED DEER 63S TO JANET 74S) OUTAGE
TUE, MAR 01 2011 12:58

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR

<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-253



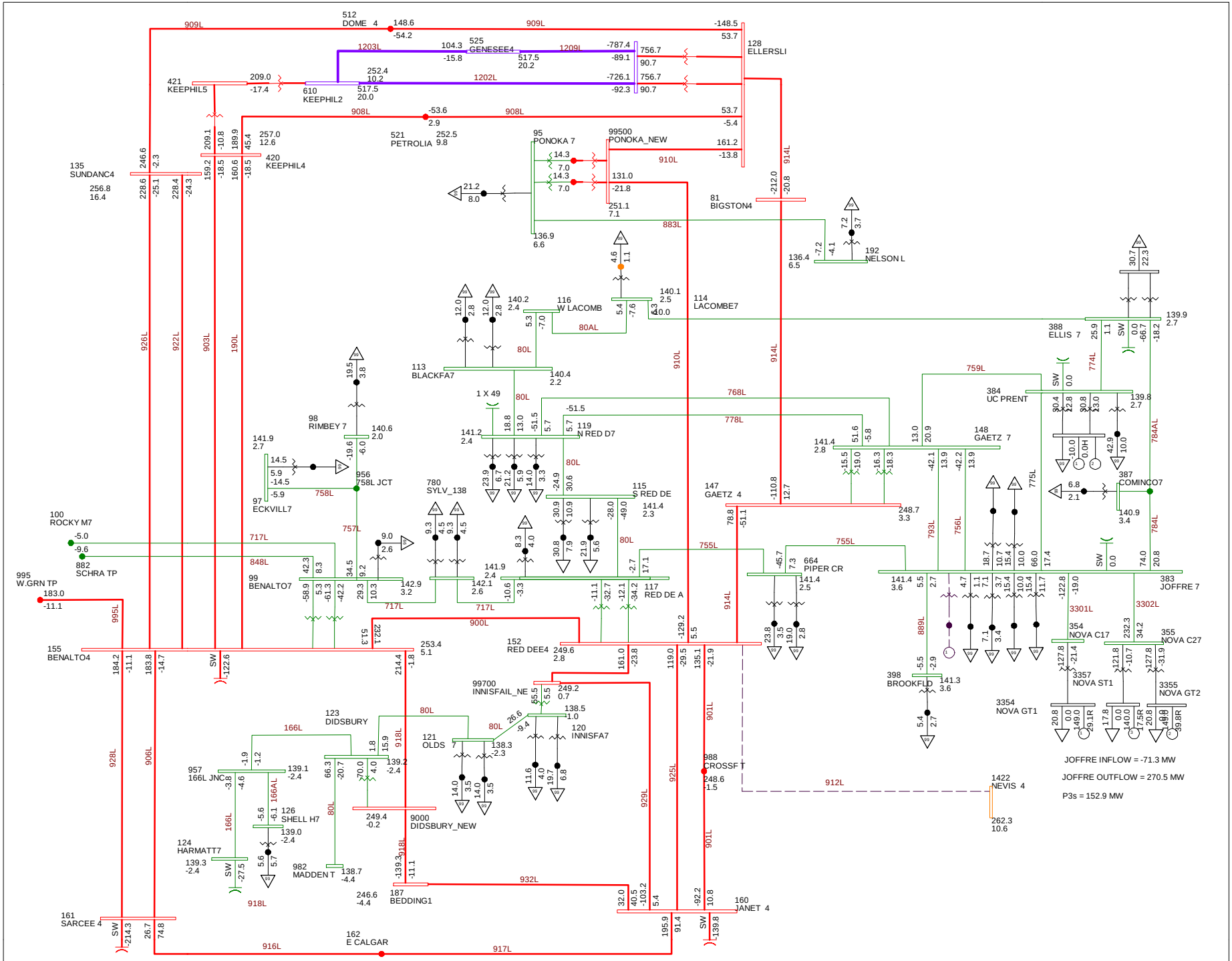
RED DEER REGION STUDY

2012 SUMMER PEAK BASE CASE REVISION 6.5

FIG 2012-ALT2-LOAD-SP-13
240KV 901L (RED DEER 63S TO CROSSFIELD 64S) OUTAGE
TUE, MAR 01 2011 12:58

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-254



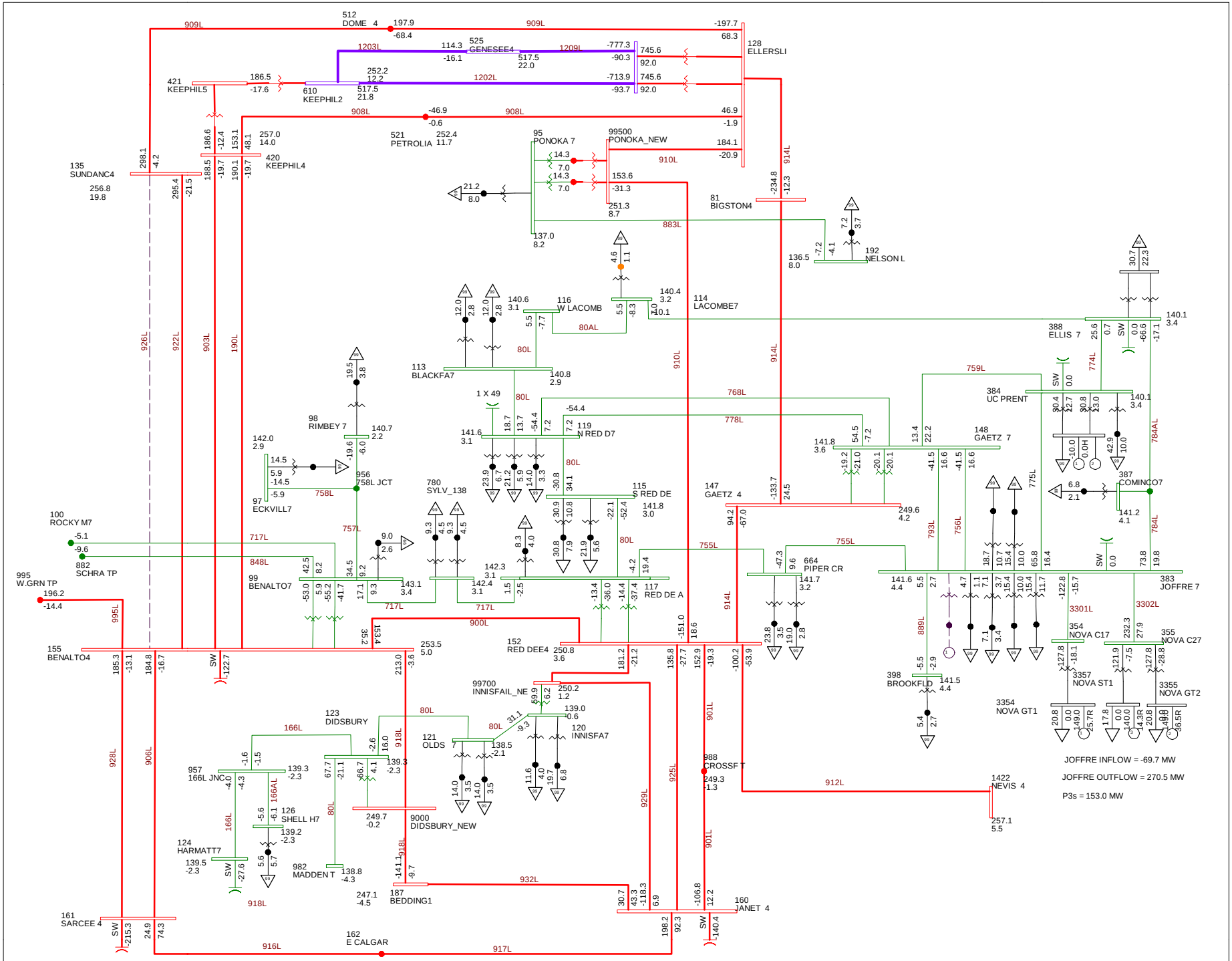
RED DEER REGION STUDY

2012 SUMMER PEAK BASE CASE REVISION 6.5

FIG 2012-ALT2-LOAD-SP-14
240KV 912L (RED DEER 63S TO NEVIS 766S) OUTAGE
TUE, MAR 01 2011 12:58

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-255



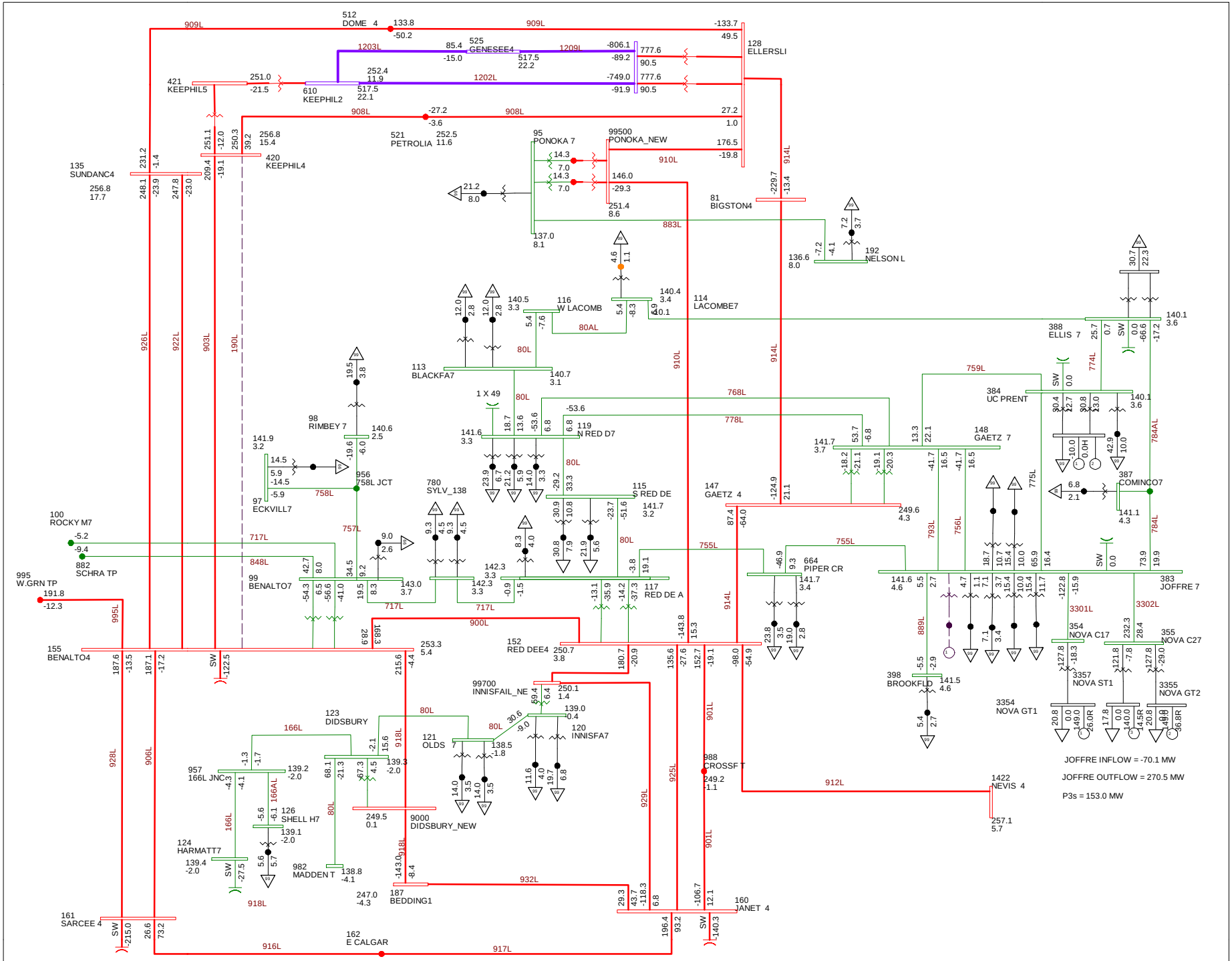
RED DEER REGION STUDY

2012 SUMMER PEAK BASE CASE REVISION 6.5

FIG 2012-ALT2-LOAD-SP-15
240 KV 926/922L (SUNDANCE 310P TO BENALTO 17S) OUTAGE
TUE, MAR 01 2011 12:58

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR

D-2012-256



RED DEER REGION STUDY

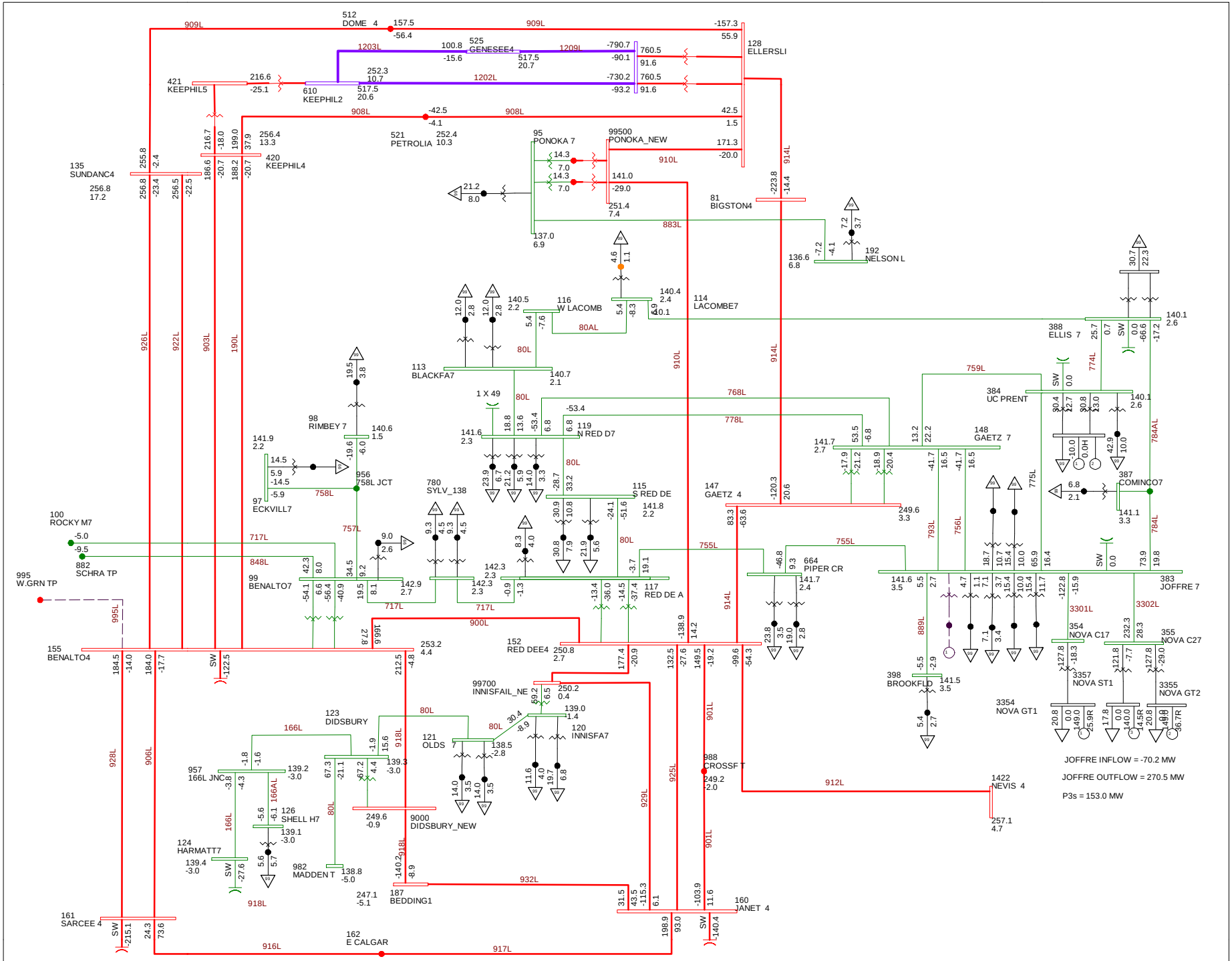
2012 SUMMER PEAK BASE CASE REVISION 6.5

FIG 2012-ALT2-LOAD-SP-16
240KV 190/903L (KEEPHILLS 320P TO BENALTO 17S) OUTAGE
TUE, MAR 01 2011 12:58

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR

<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-257



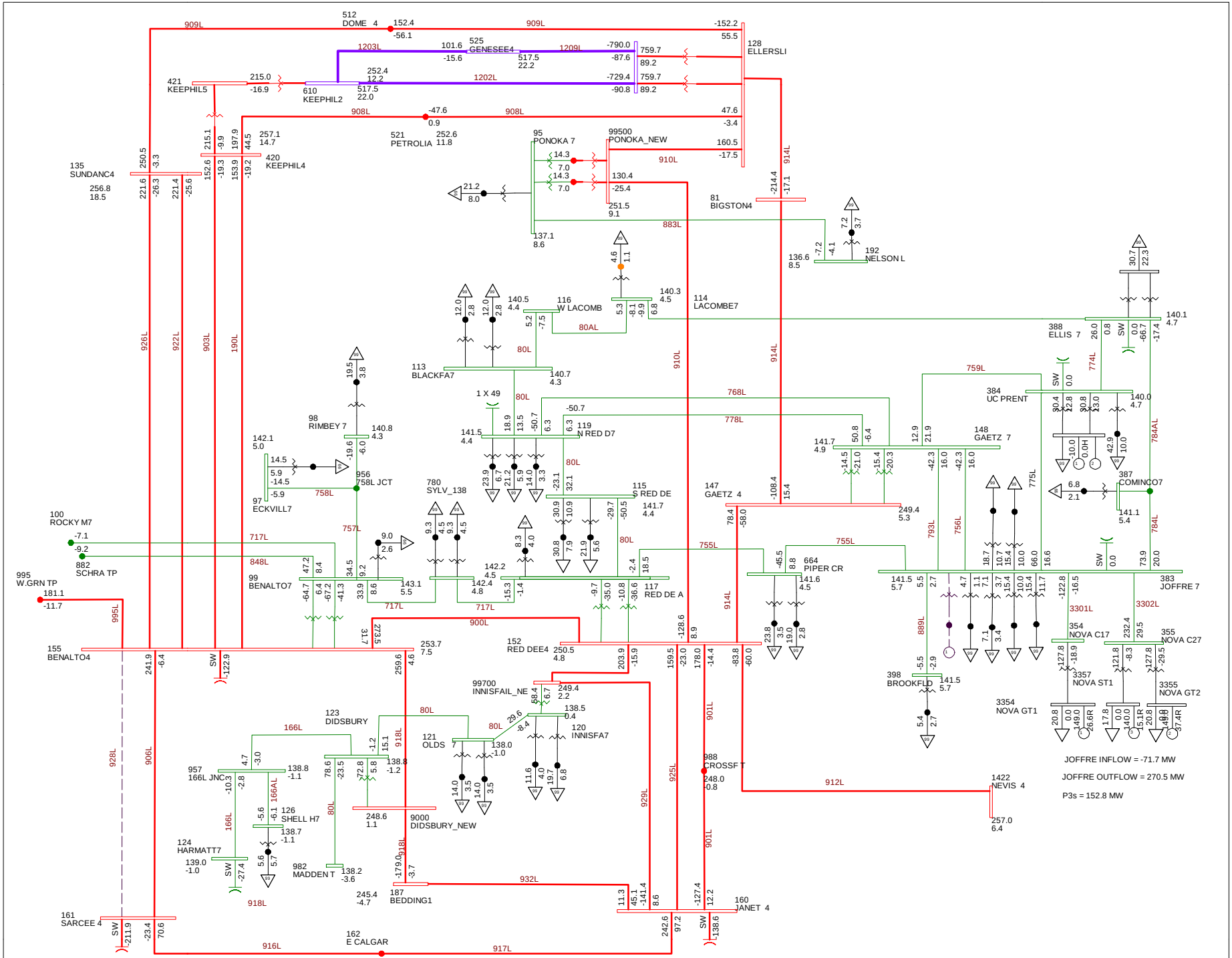
RED DEER REGION STUDY

2012 SUMMER PEAK BASE CASE REVISION 6.5

FIG 2012-ALT2-LOAD-SP-17
240 KV 995L (AMOCO WILLESDEN GREEN 68S TO BENALTO 17S) OUTAG
TUE, MAR 01 2011 12:58

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-258



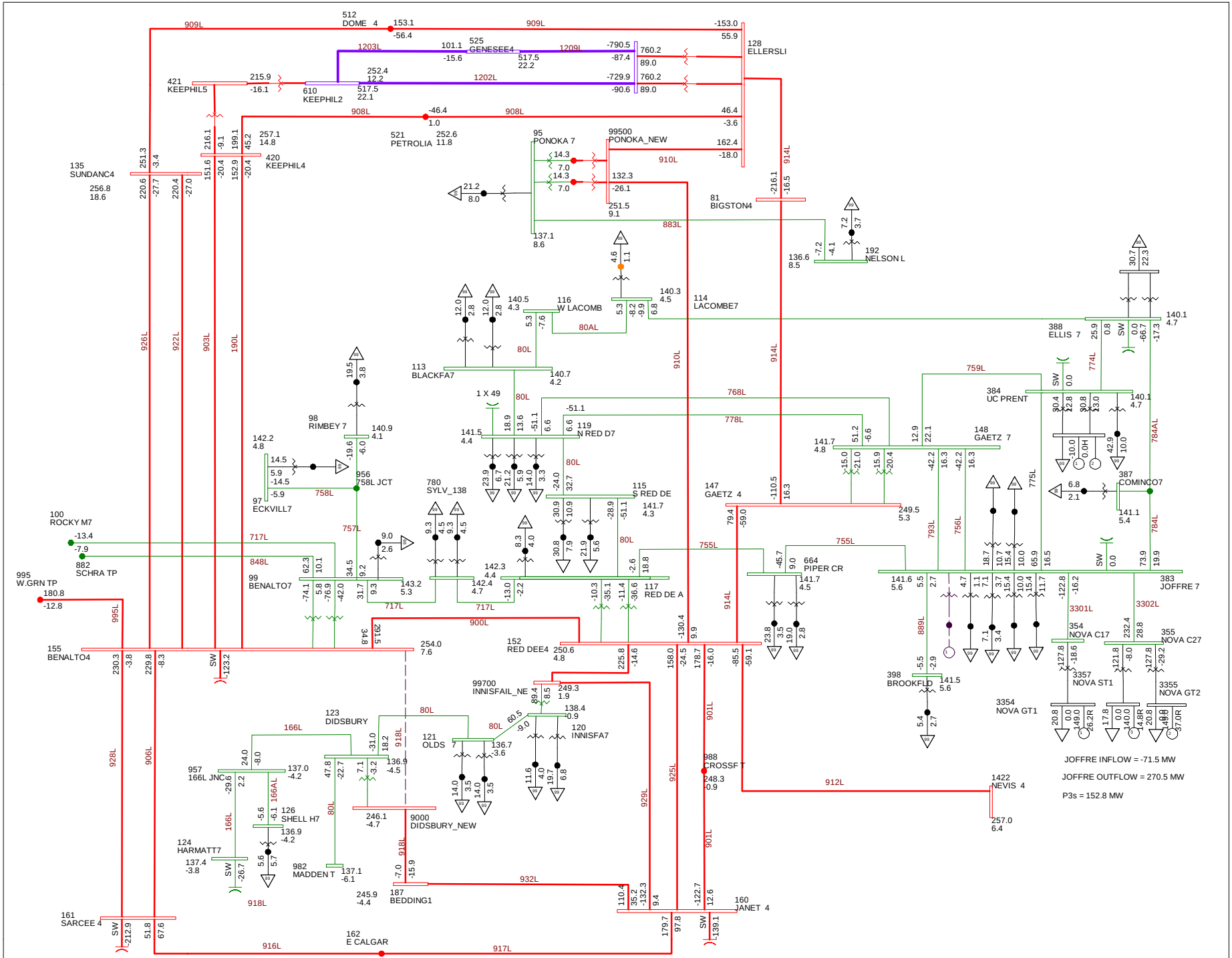
RED DEER REGION STUDY

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FIG 2012-ALT2-LOAD-SP-18
240 KV 906/928L (BENALTO 17S TO SARCEE 42S) OUTAGE
TUE, MAR 01 2011 12:58

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR

D-2012-259



RED DEER REGION STUDY

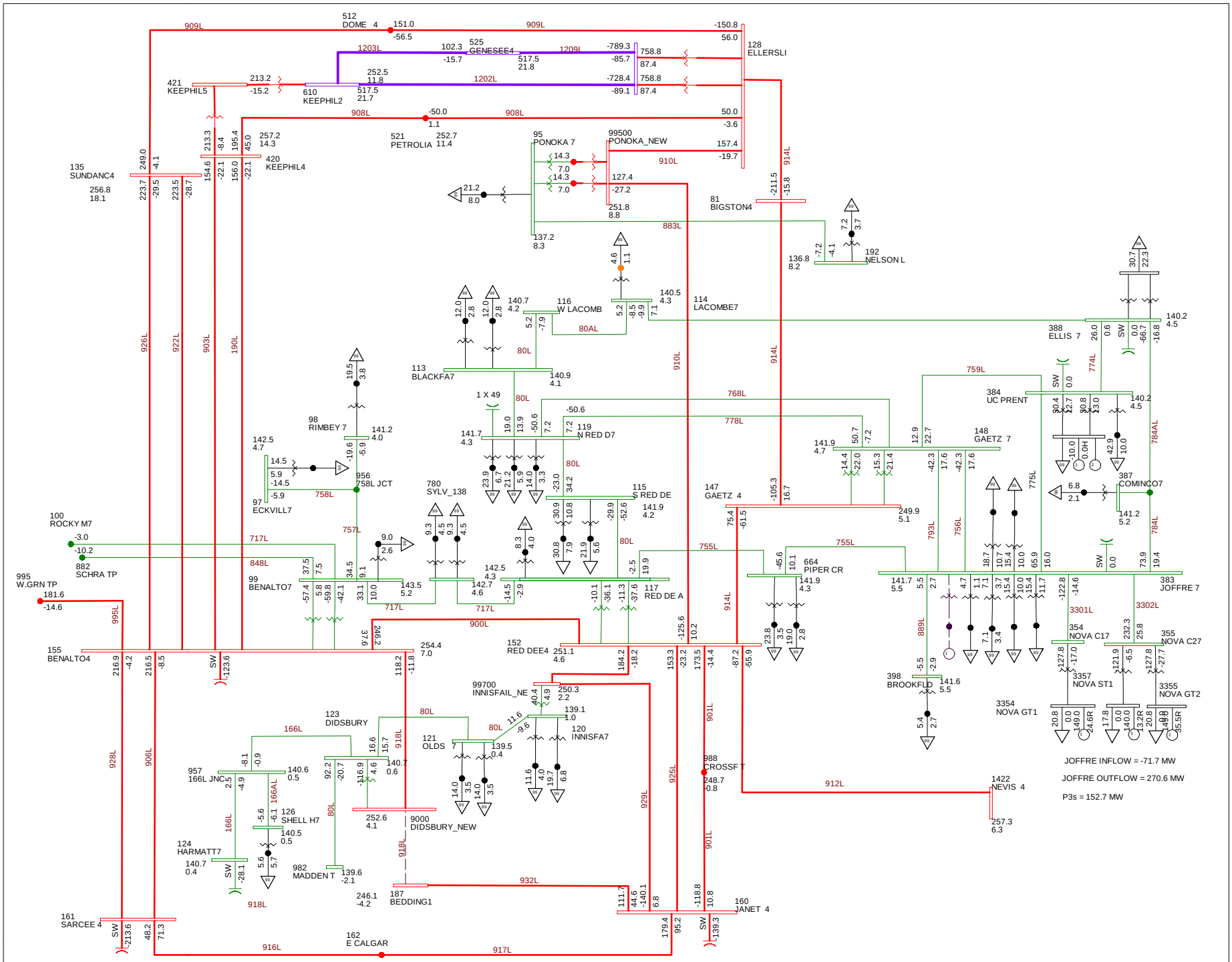
2012 SUMMER PEAK BASE CASE REVISION 6.5

FIG 2012-ALT2-LOAD-SP-19
240 KV 918L (BENALTO 17S TO DIDSBURY SUB. (152S)) OUTAGE
TUE, MAR 01 2011 12:58

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR

<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-260



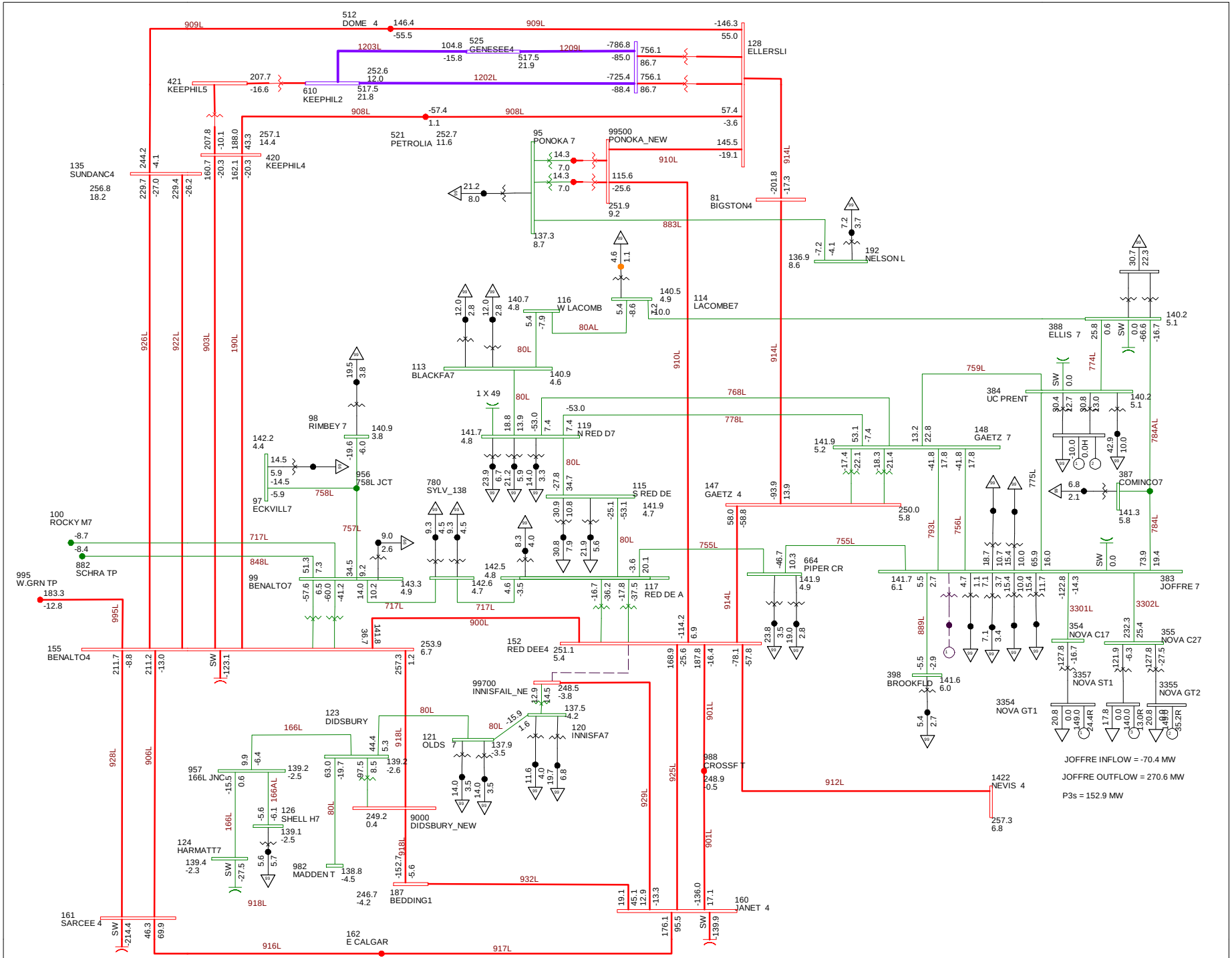
RED DEER REGION STUDY

2012 SUMMER PEAK BASE CASE REVISION 6.5

FIG 2012-ALT2-LOAD-SP-20
240 KV 918L (DIDSBURY SUB. (152S) TO BEDDINGTON 162S) OUTAGE
TUE, MAR 01 2011 12:58

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR

D-2012-261



RED DEER REGION STUDY

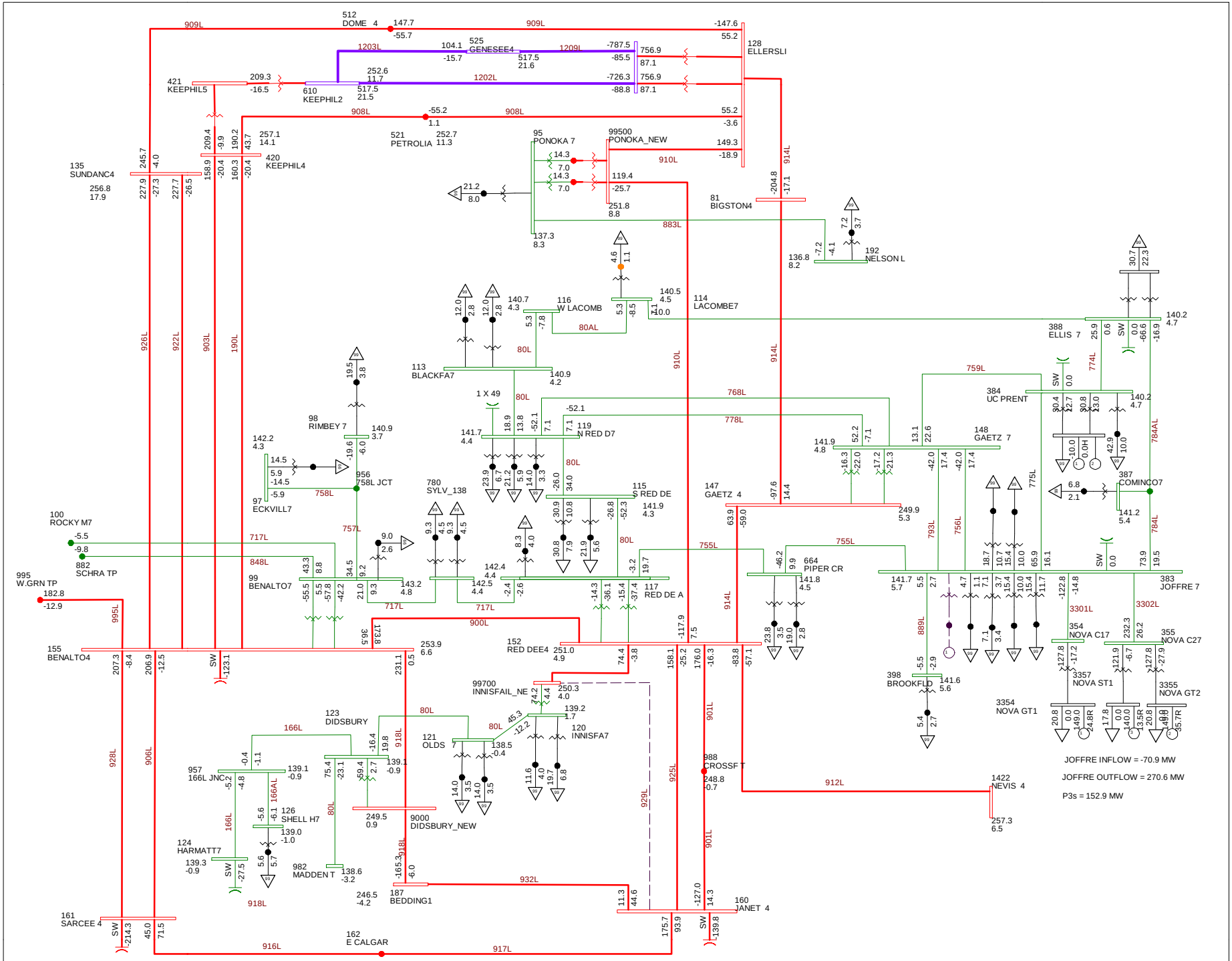
2012 SUMMER PEAK BASE CASE REVISION 6.5

FIG 2012-ALT2-LOAD-SP-21
240 KV 929L (RED DEER 63S TO INNISFAIL 214S) OUTAGE
TUE, MAR 01 2011 12:58

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR

<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-262



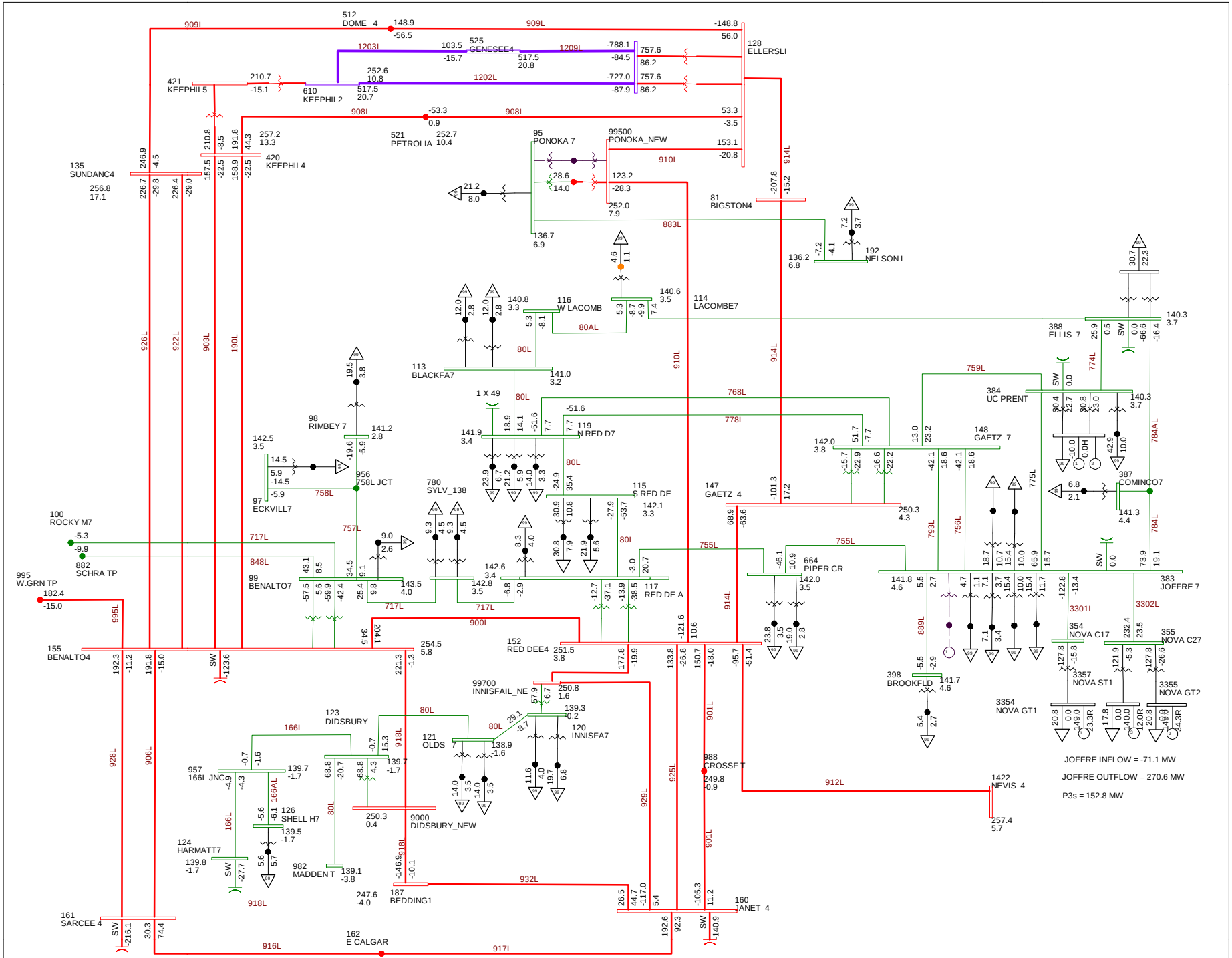
RED DEER REGION STUDY

2012 SUMMER PEAK BASE CASE REVISION 6.5

FIG 2012-ALT2-LOAD-SP-22
240KV 929L (INNISFAIL 214S TO JANET 74S) OUTAGE
TUE, MAR 01 2011 12:58

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-263



RED DEER REGION STUDY

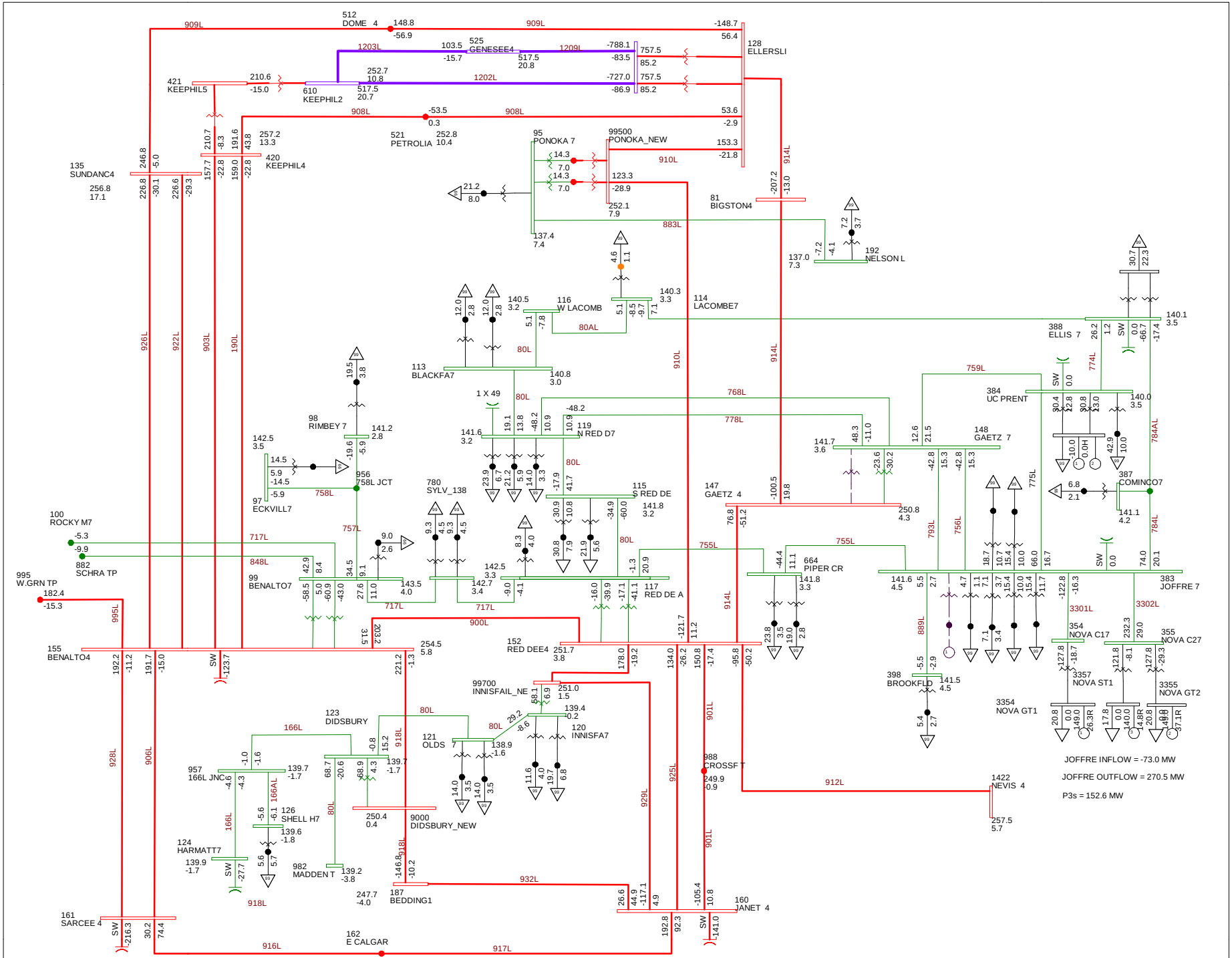
2012 SUMMER PEAK BASE CASE REVISION 6.5

FIG 2012-ALT2-LOAD-SP-23
240/138KV TRANSFORMER AT PONOKA 331S OUTAGE
TUE, MAR 01 2011 12:58

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR

<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-264



RED DEER REGION STUDY

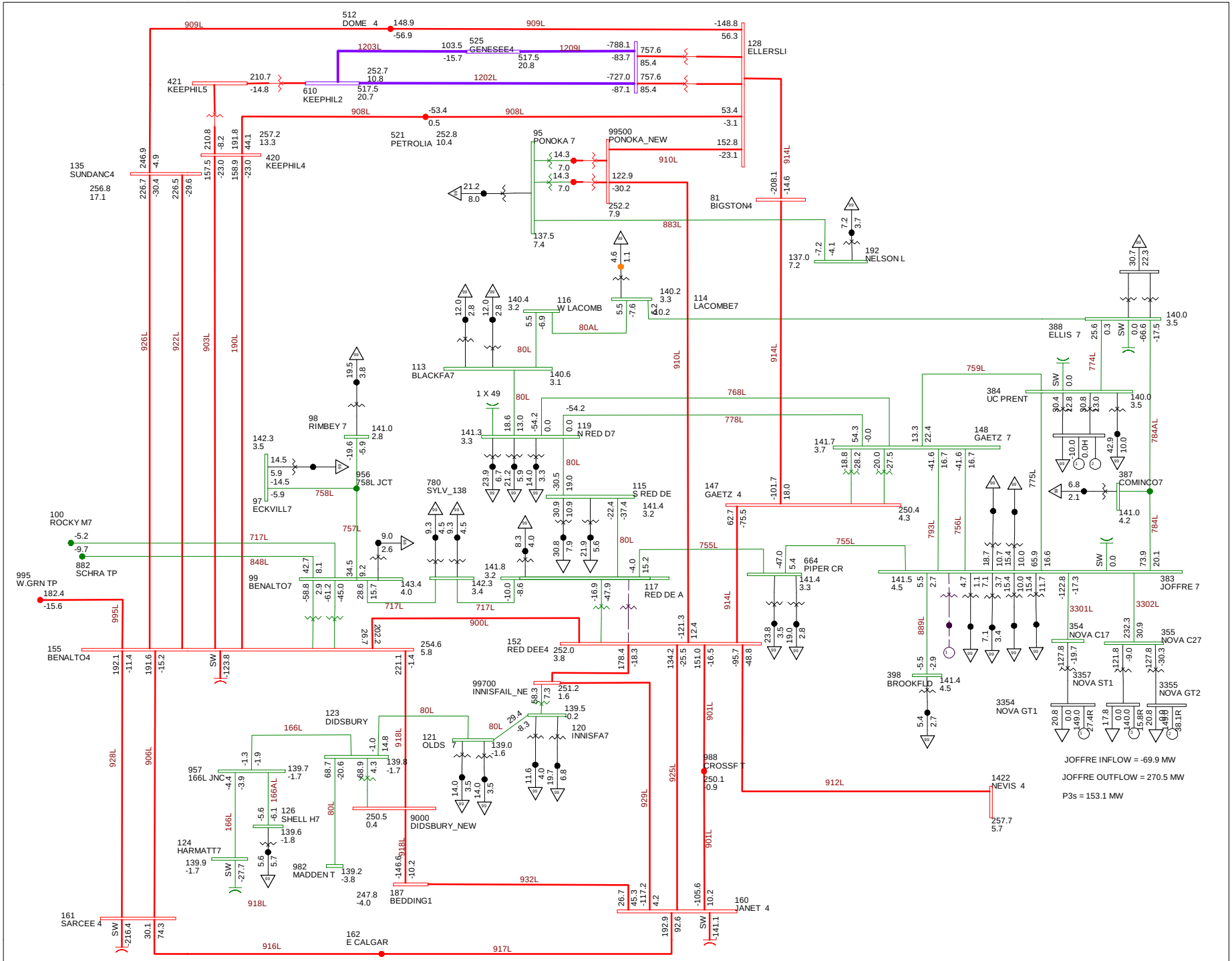
2012 SUMMER PEAK BASE CASE REVISION 6.5

FIG 2012-ALT2-LOAD-SP-24
240/138KV TRANSFORMER AT GAETZ 87S OUTAGE
TUE, MAR 01 2011 12:58

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR

<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-265



RED DEER REGION STUDY

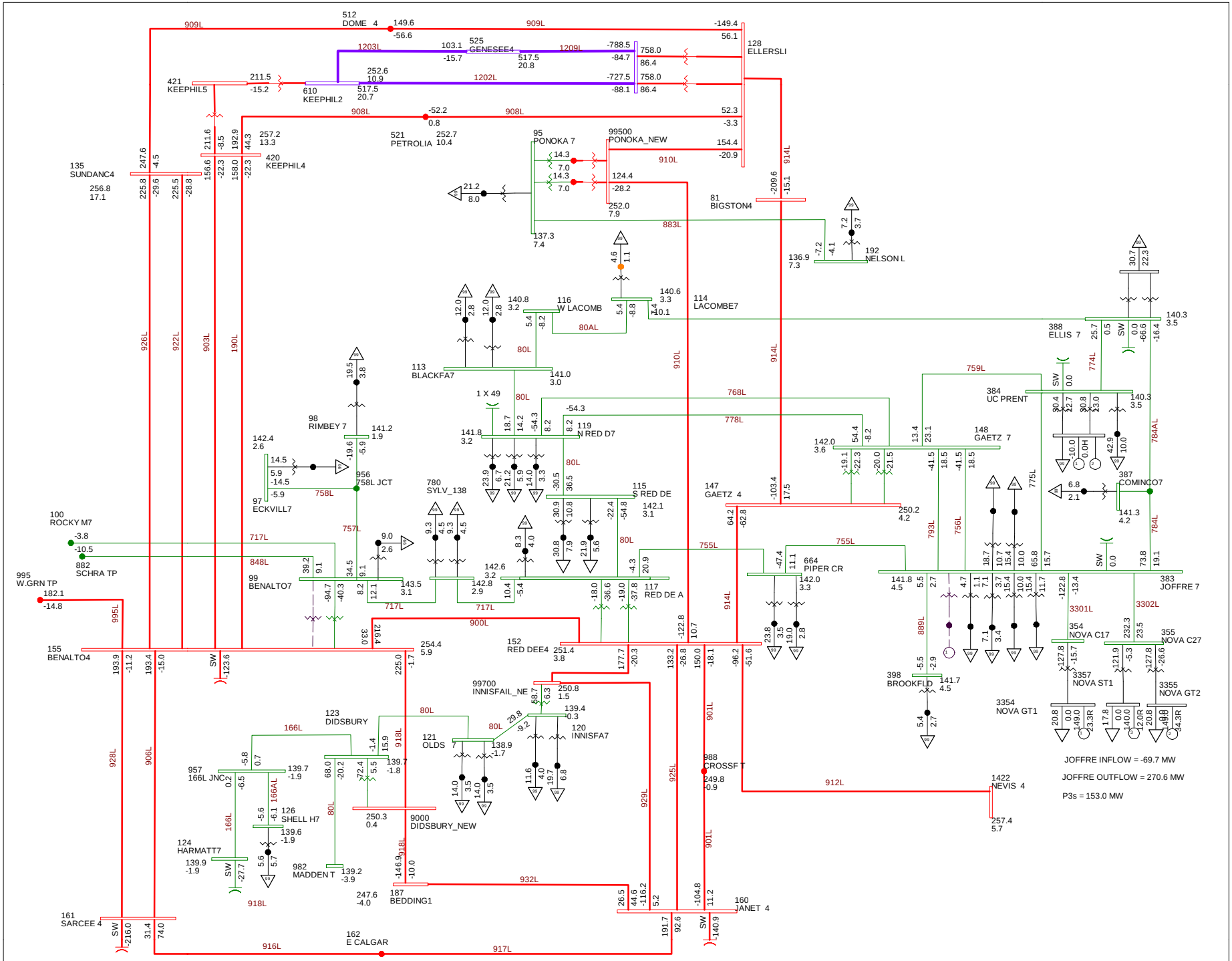
2012 SUMMER PEAK BASE CASE REVISION 6.5

FIG 2012-ALT2-LOAD-SP-25
240/138KV TRANSFORMER AT RED DEER 63S OUTAGE
TUE, MAR 01 2011 12:58

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR

<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-266



RED DEER REGION STUDY

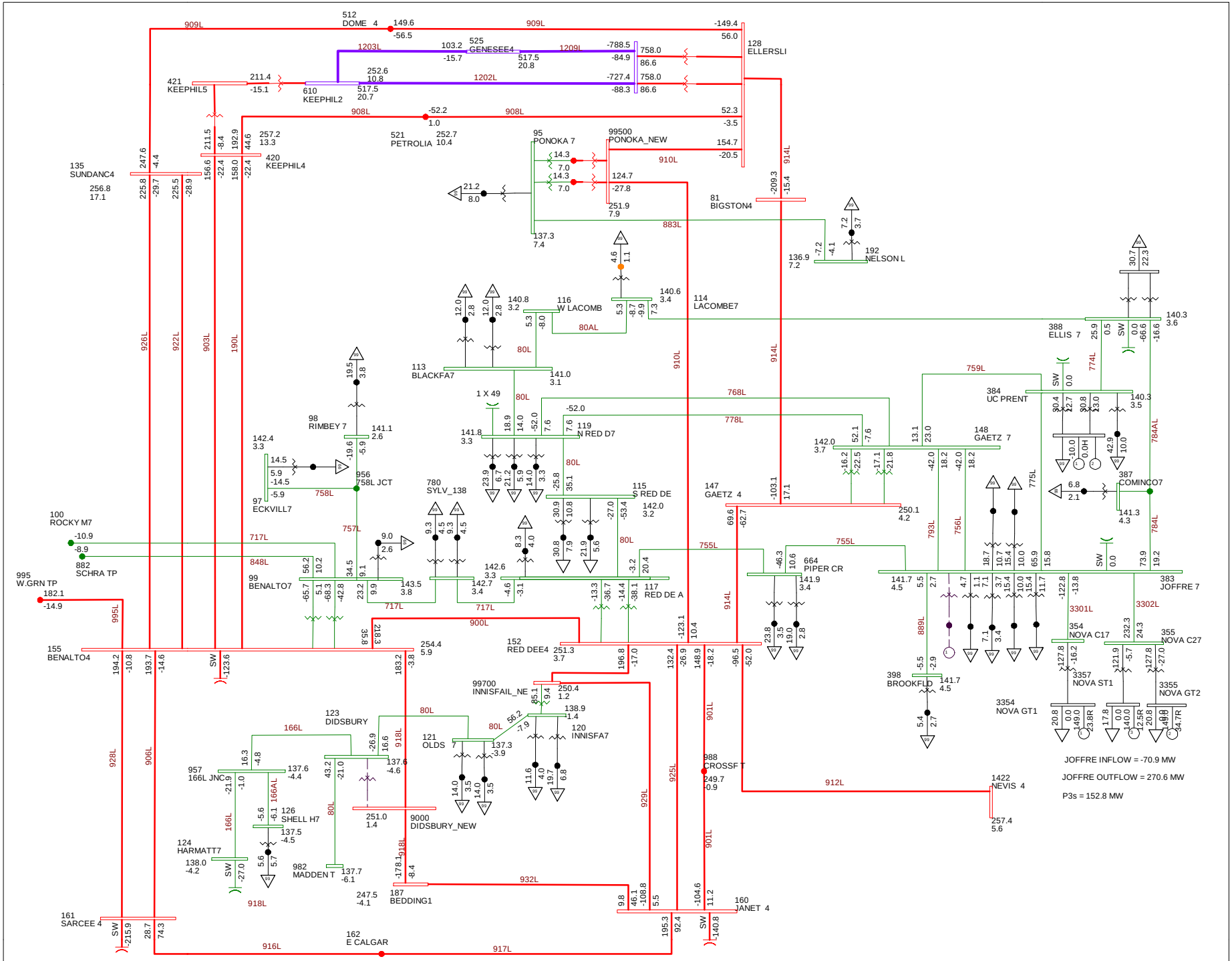
2012 SUMMER PEAK BASE CASE REVISION 6.5

FIG 2012-ALT2-LOAD-SP-26
240/138KV TRANSFORMER AT BENALTO 17S OUTAGE
TUE, MAR 01 2011 12:58

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR

<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-267



RED DEER REGION STUDY

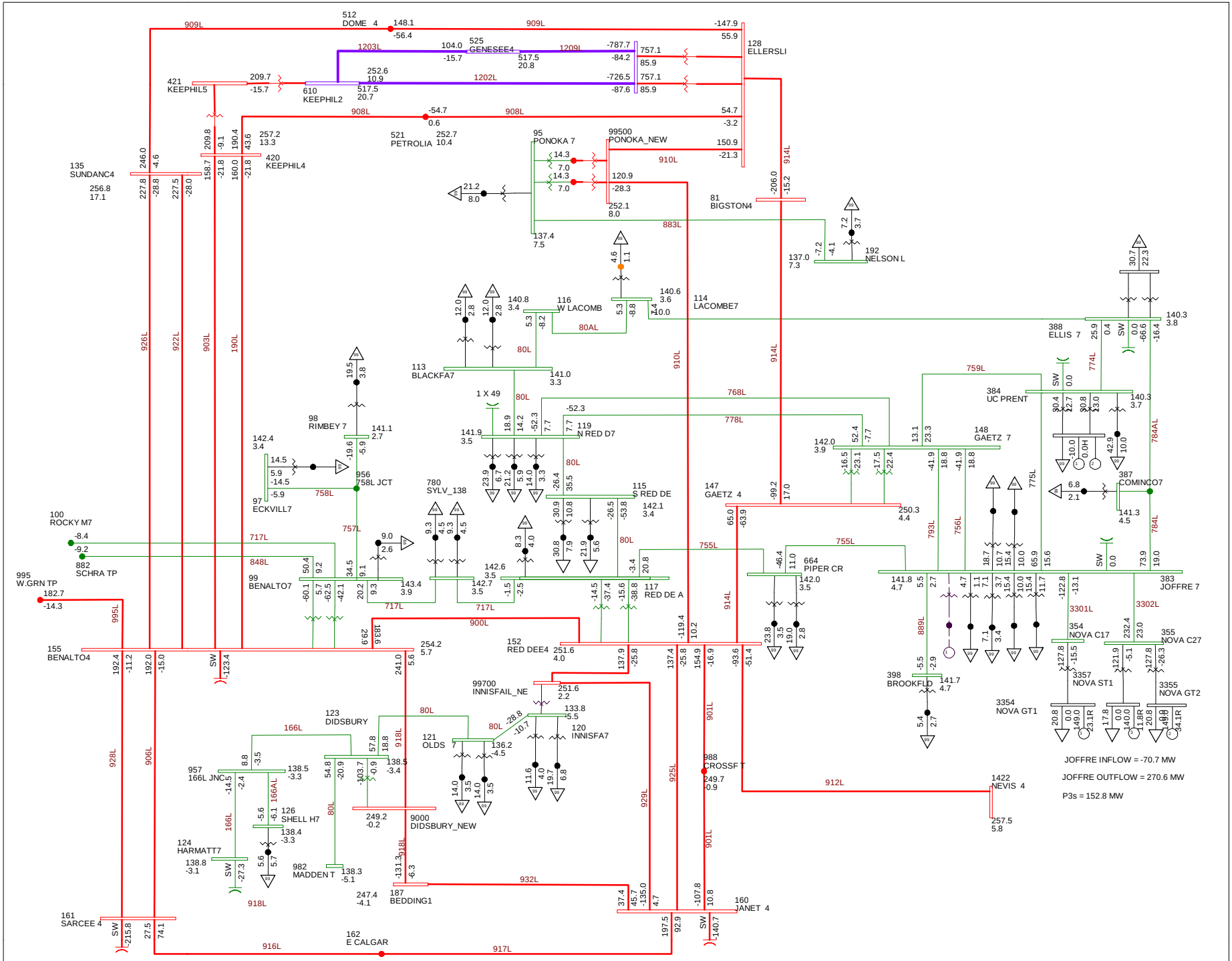
2012 SUMMER PEAK BASE CASE REVISION 6.5

FIG 2012-ALT2-LOAD-SP-27
240/138KV TRANSFORMER AT DIDSBURY SUB. (152S) OUTAGE
TUE, MAR 01 2011 12:58

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR

<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-268



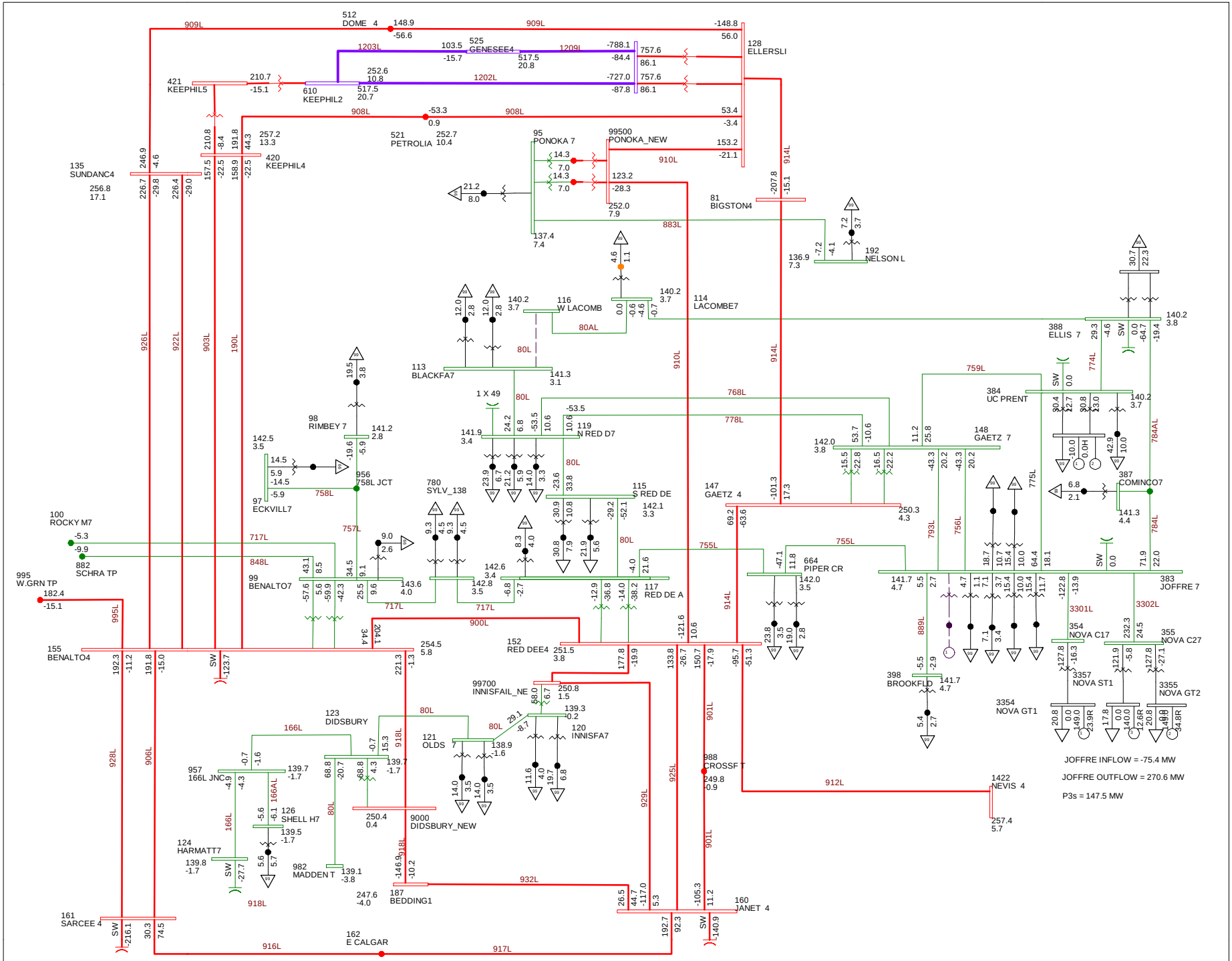
RED DEER REGION STUDY

2012 SUMMER PEAK BASE CASE REVISION 6.5

FIG 2012-ALT2-LOAD-SP-28
240/138KV TRANSFORMER AT INNISFAIL 214S OUTAGE
TUE, MAR 01 2011 12:58

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR

D-2012-269



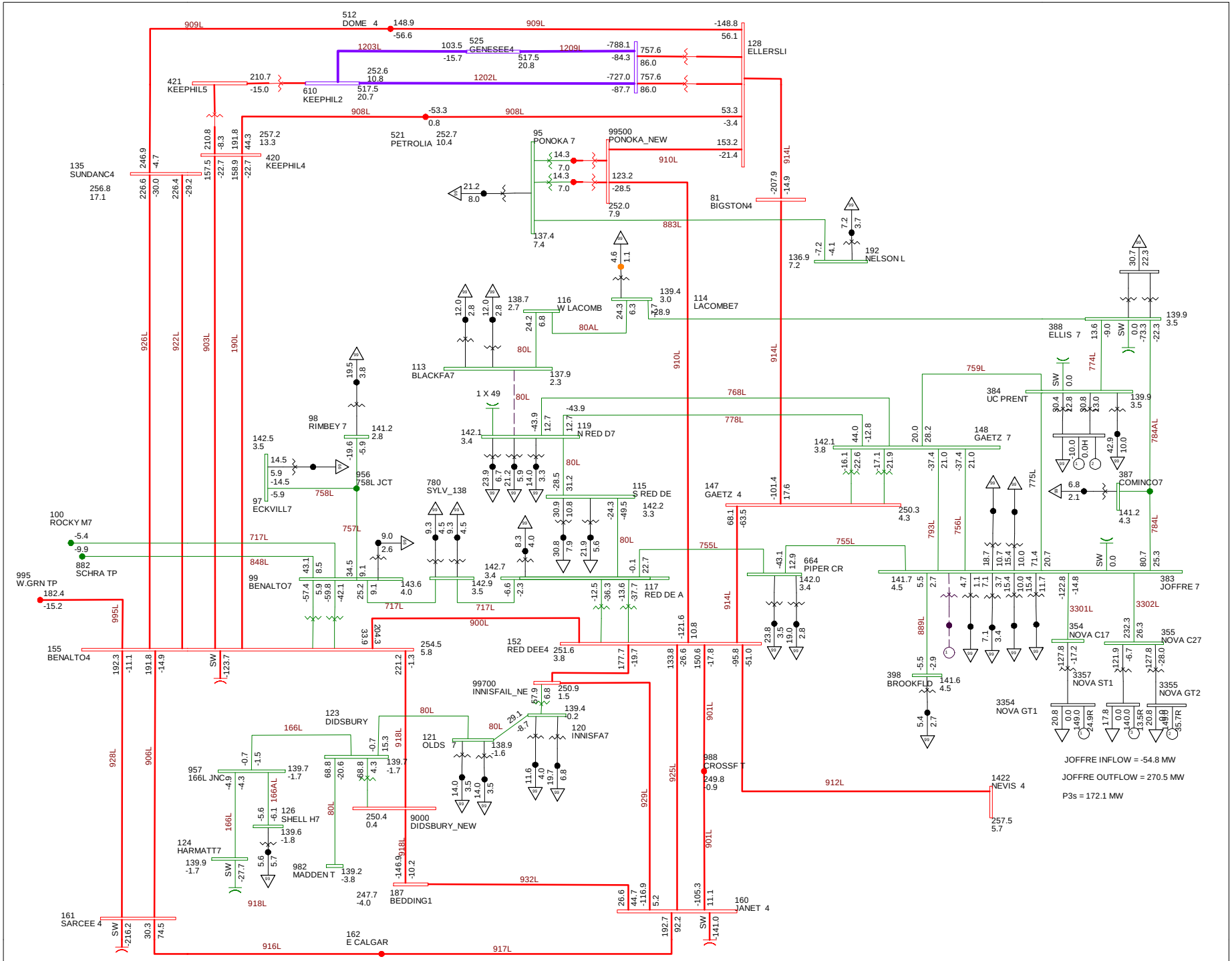
RED DEER REGION STUDY

2012 SUMMER PEAK BASE CASE REVISION 6.5

FIG 2012-ALT2-LOAD-SP-29
138 KV 80L (W. LACOMBE 958S TO BLACKFALDS 198S) OUTAGE
TUE, MAR 01 2011 12:58

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR

D-2012-270



RED DEER REGION STUDY

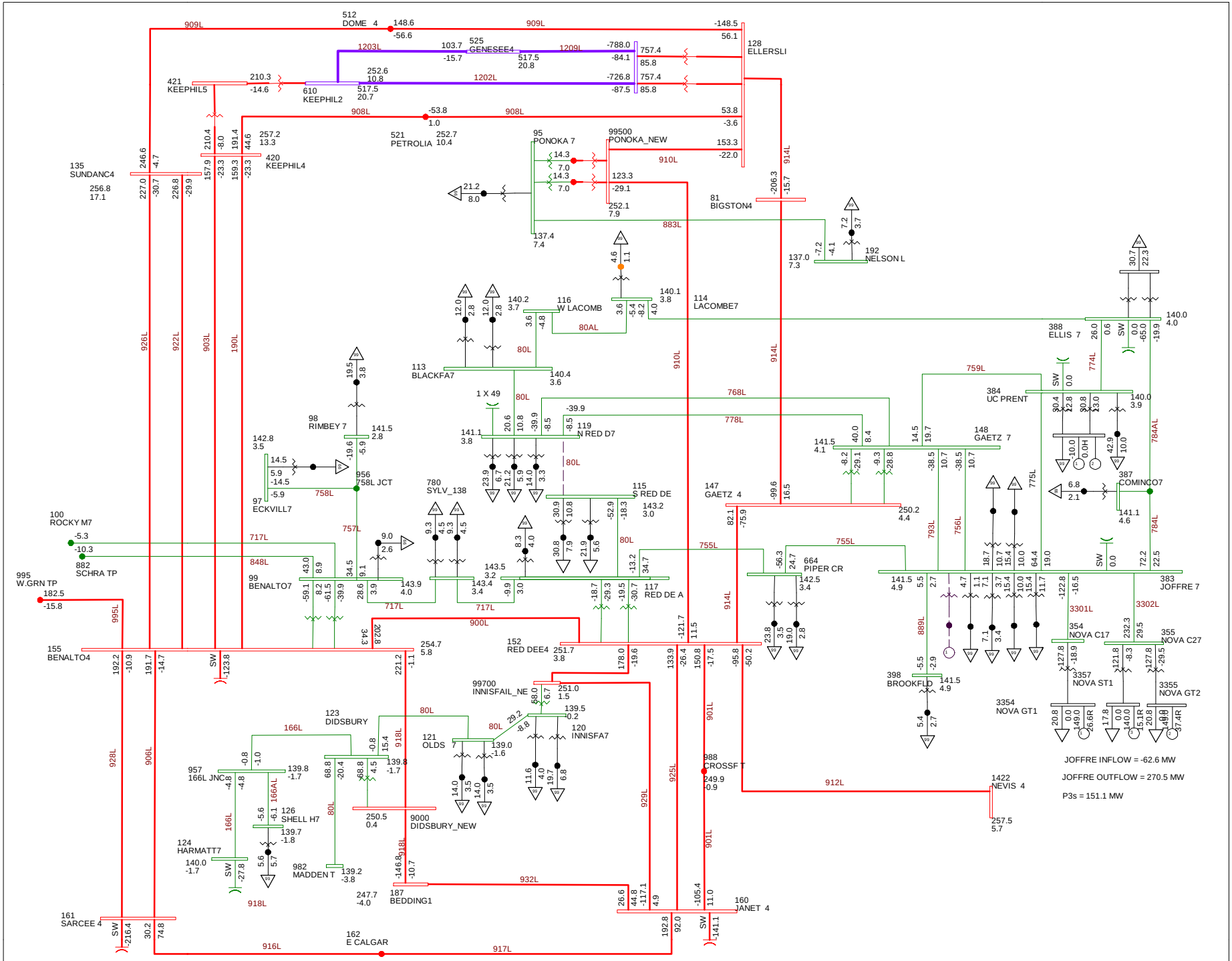
2012 SUMMER PEAK BASE CASE REVISION 6.5

FIG 2012-ALT2-LOAD-SP-30
138 KV 80L (BLACKFALDS 198S TO N. RED DEER 217S) OUTAGE
TUE, MAR 01 2011 12:58

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR

<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-271



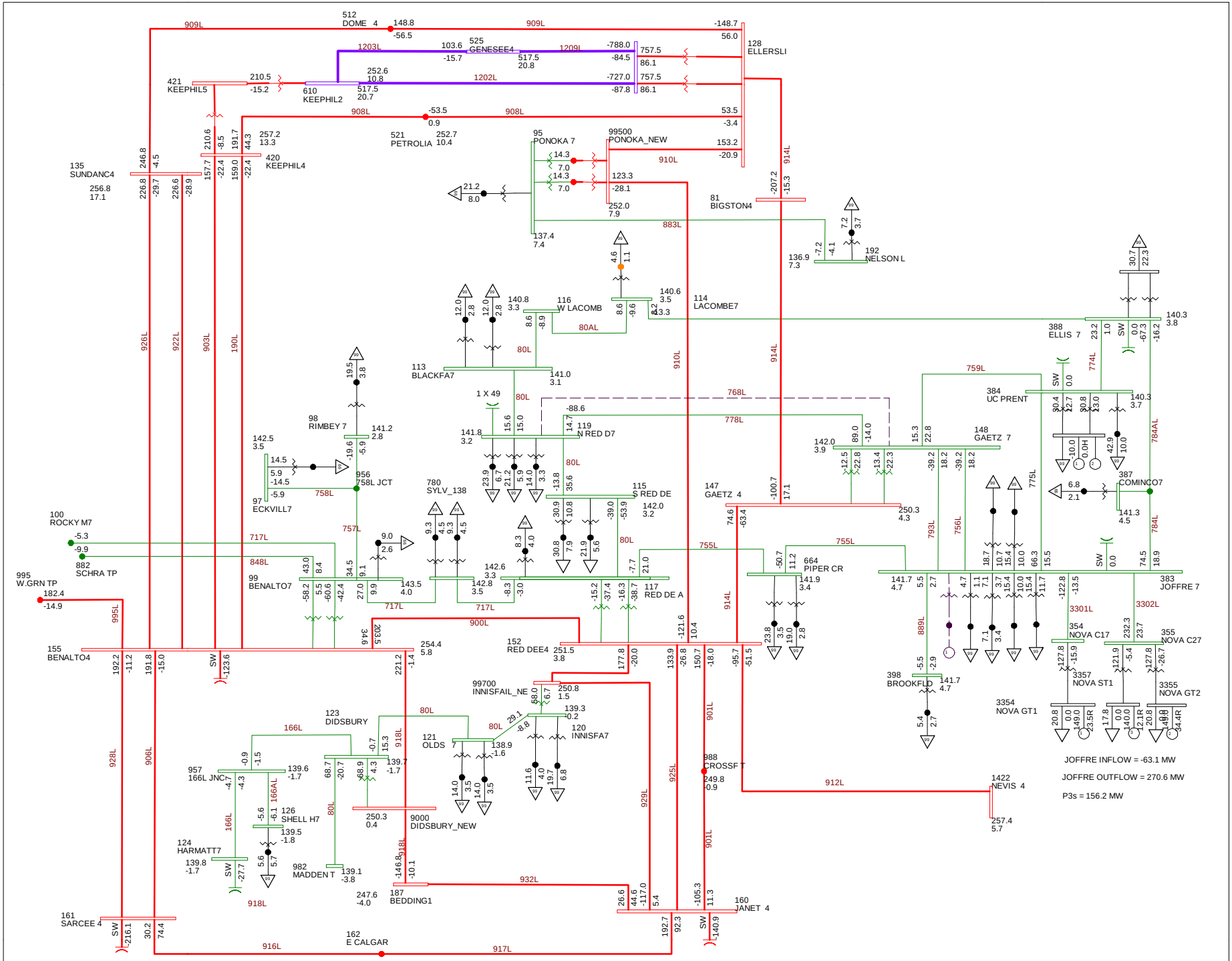
RED DEER REGION STUDY

2012 SUMMER PEAK BASE CASE REVISION 6.5

FIG 2012-ALT2-LOAD-SP-31
138 KV 80L (N. RED DEER 217S TO S. RED DEER 194S) OUTAGE
TUE, MAR 01 2011 12:58

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR

D-2012-272



RED DEER REGION STUDY

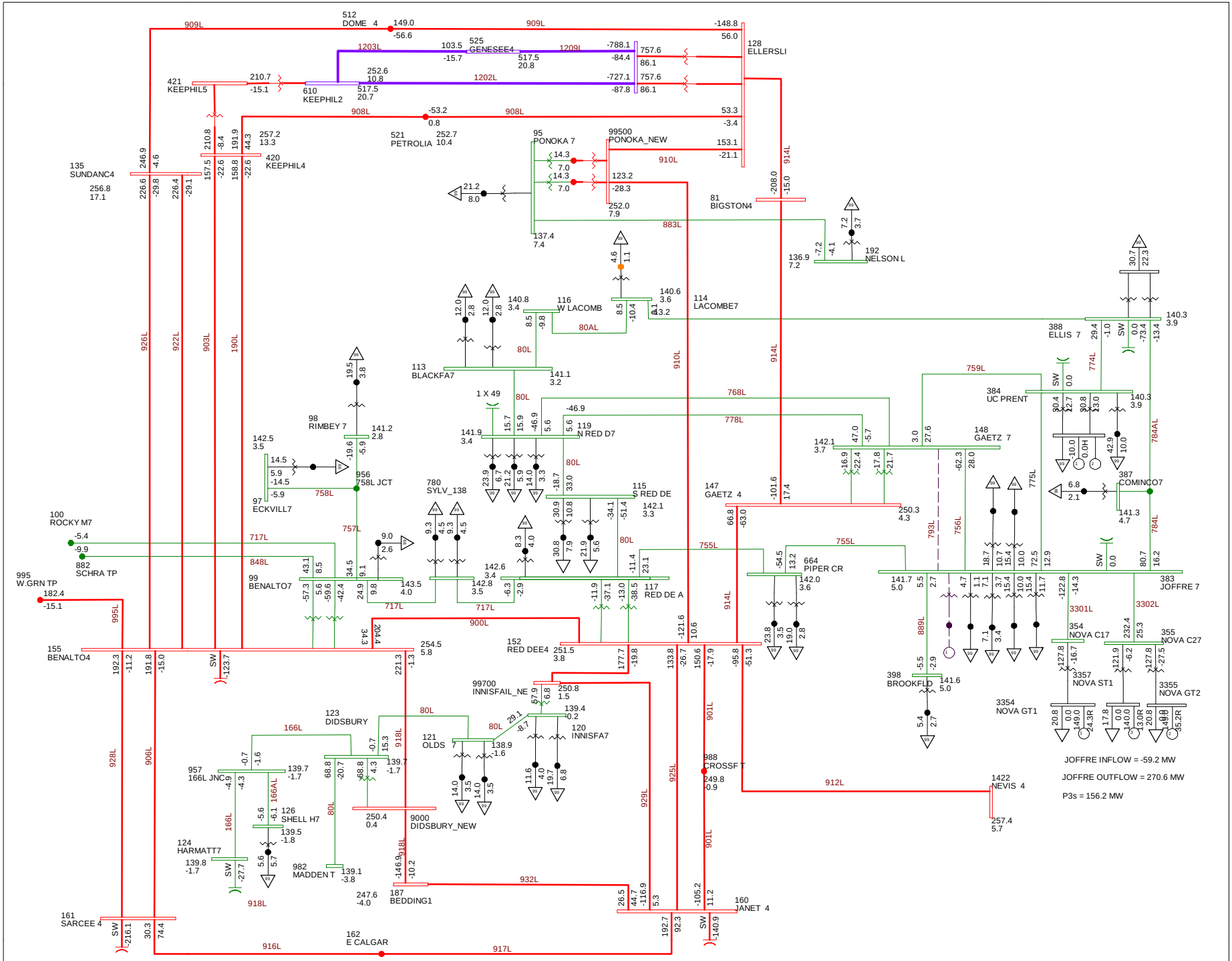
2012 SUMMER PEAK BASE CASE REVISION 6.5

FIG 2012-ALT2-LOAD-SP-32
138 KV 768/778L (N. RED DEER 217S TO GAETZ 87S) OUTAGE
TUE, MAR 01 2011 12:58

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR

<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-273



RED DEER REGION STUDY

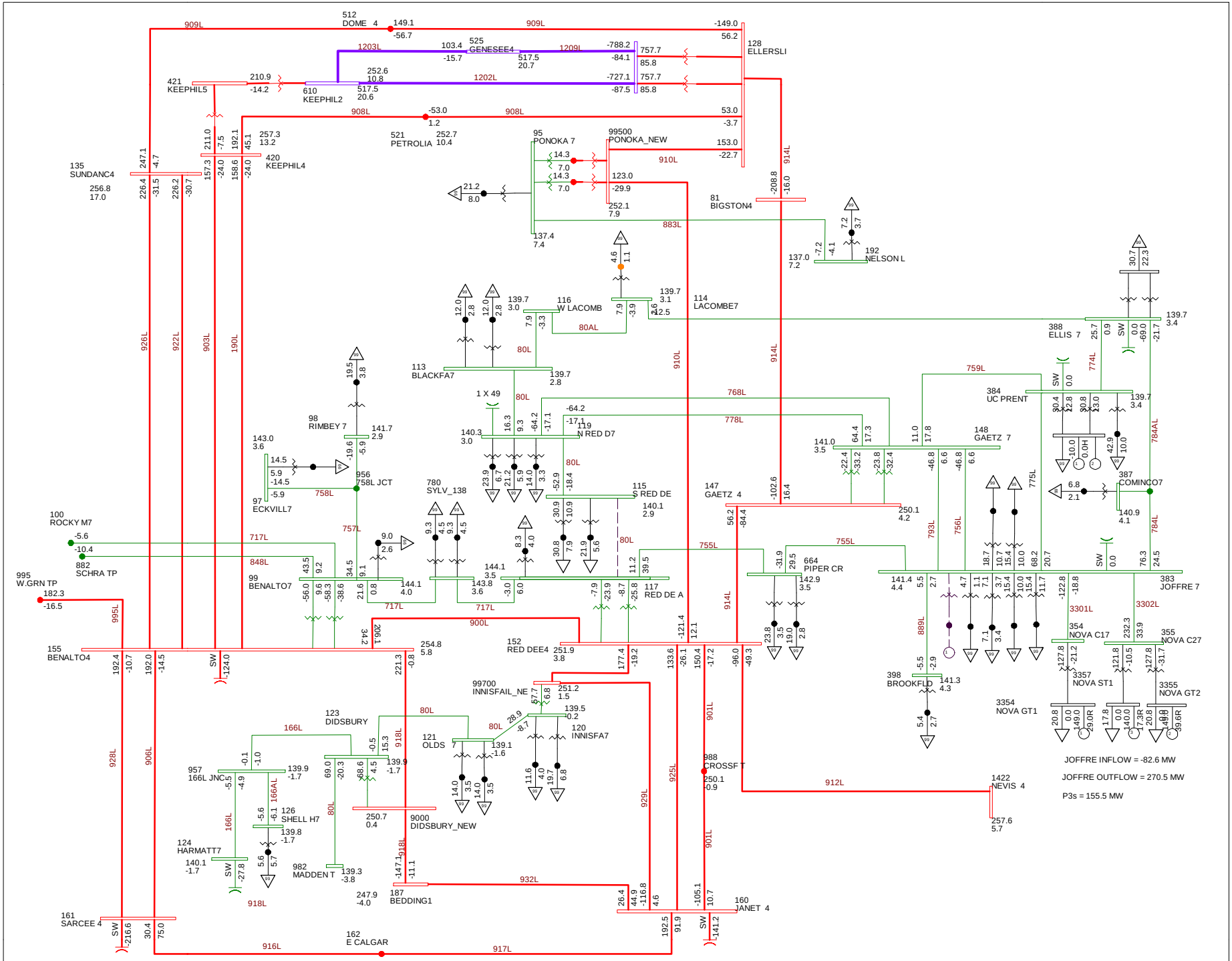
2012 SUMMER PEAK BASE CASE REVISION 6.5

FIG 2012-ALT2-LOAD-SP-33
138 KV 793/756L (GAETZ 87S TO JOFFRE 535S) OUTAGE
TUE, MAR 01 2011 12:58

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR

<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-274



RED DEER REGION STUDY

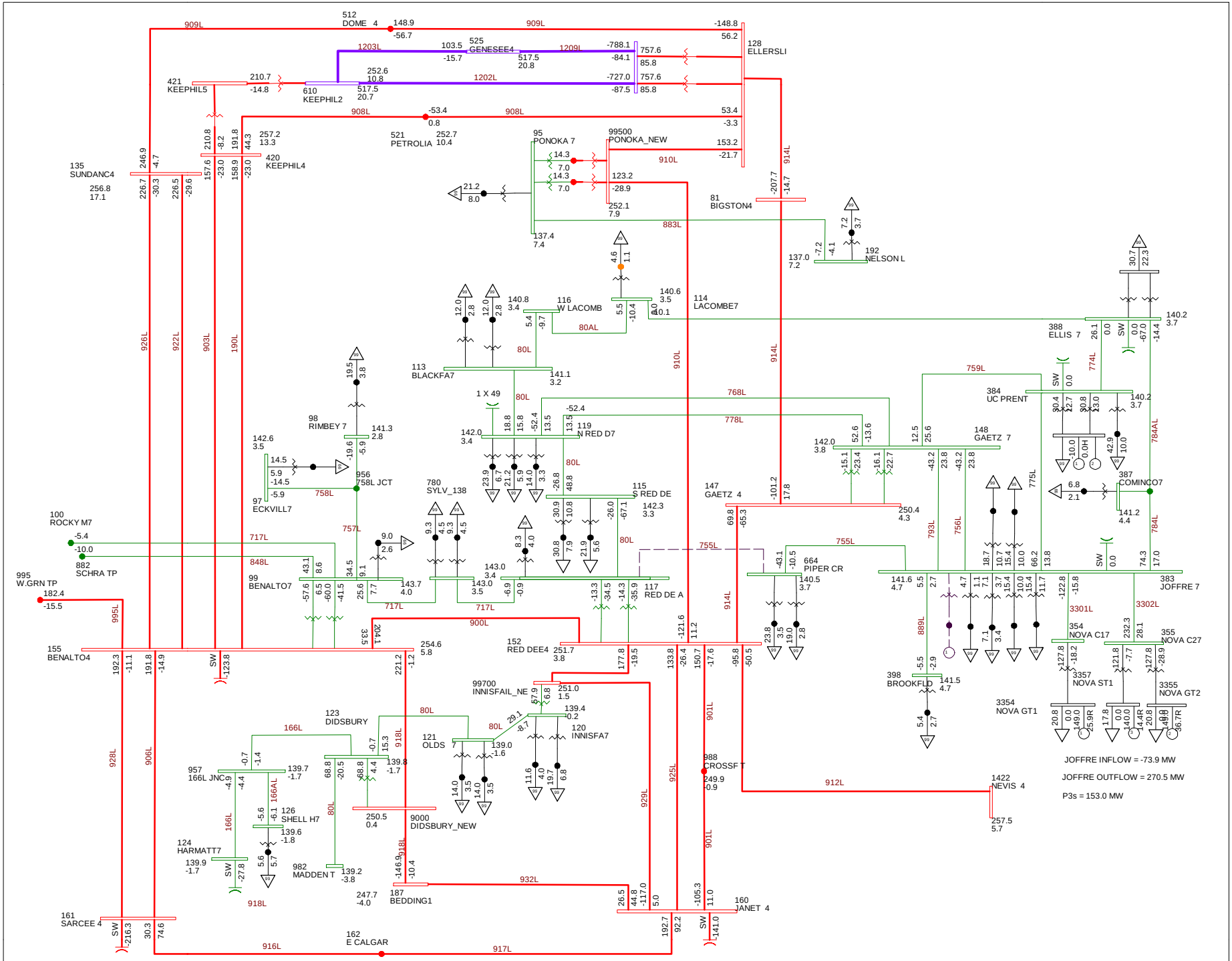
2012 SUMMER PEAK BASE CASE REVISION 6.5

FIG 2012-ALT2-LOAD-SP-34
138 KV 80L (S. RED DEER 194S TO RED DEER 63S) OUTAGE
TUE, MAR 01 2011 12:58

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR

<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-275



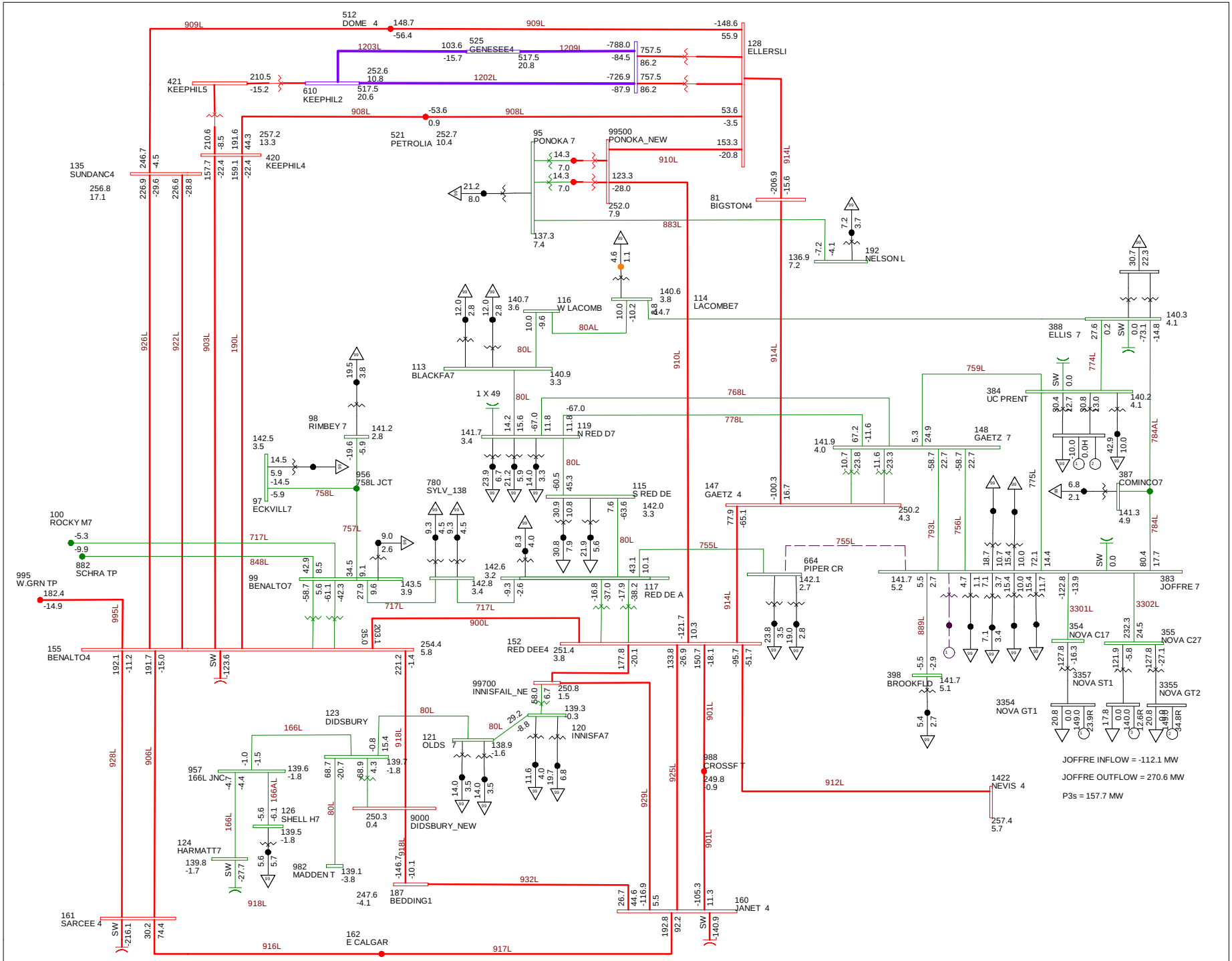
RED DEER REGION STUDY

2012 SUMMER PEAK BASE CASE REVISION 6.5

FIG 2012-ALT2-LOAD-SP-35
138 KV 755L (RED DEER 63S TO PIPER CREEK 247S) OUTAGE
TUE, MAR 01 2011 12:58

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-276



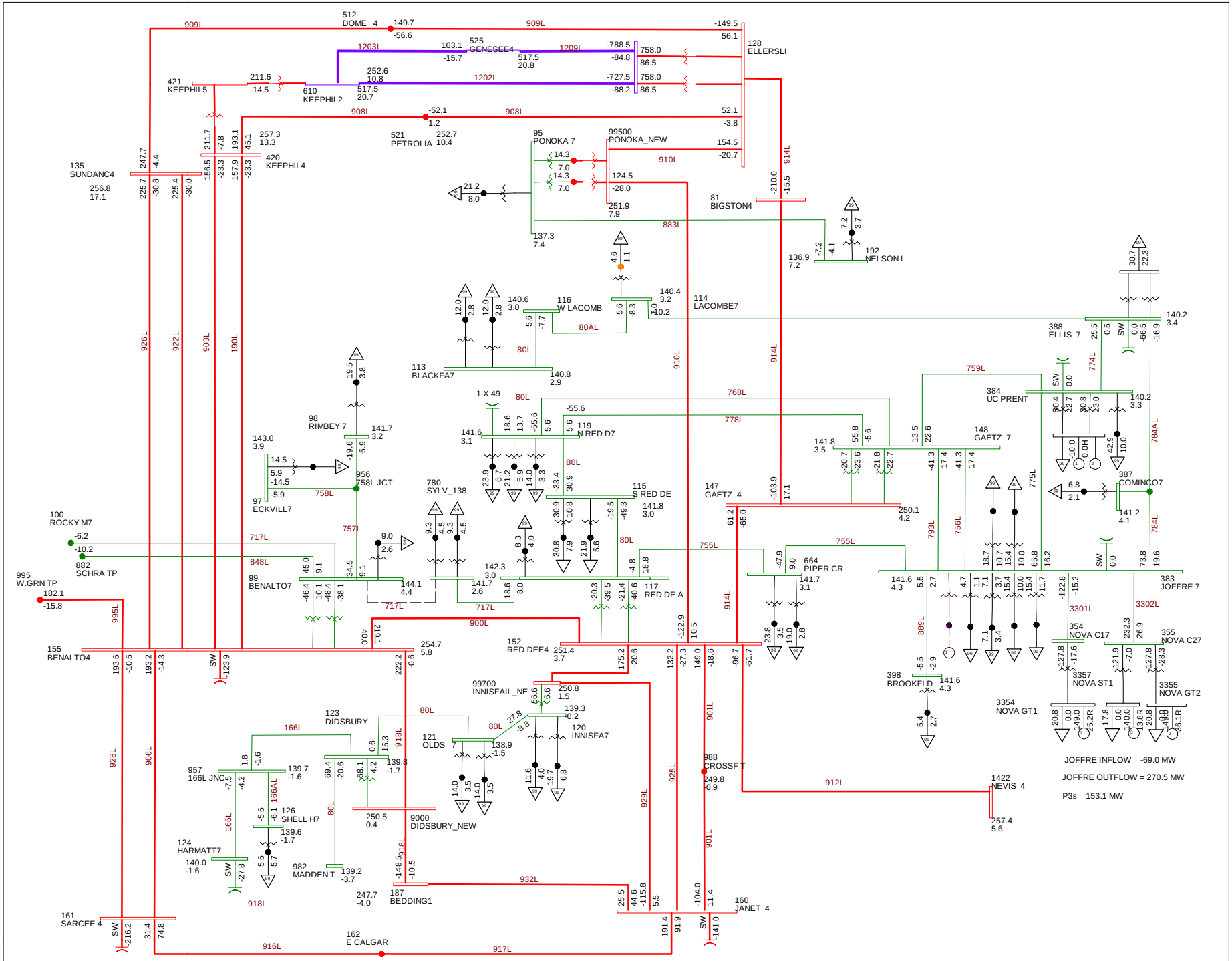
RED DEER REGION STUDY

2012 SUMMER PEAK BASE CASE REVISION 6.5

FIG 2012-ALT2-LOAD-SP-36
138 KV 755L (JOFFRE 535S TO PIPER CREEK 247S) OUTAGE
TUE, MAR 01 2011 12:59

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-277



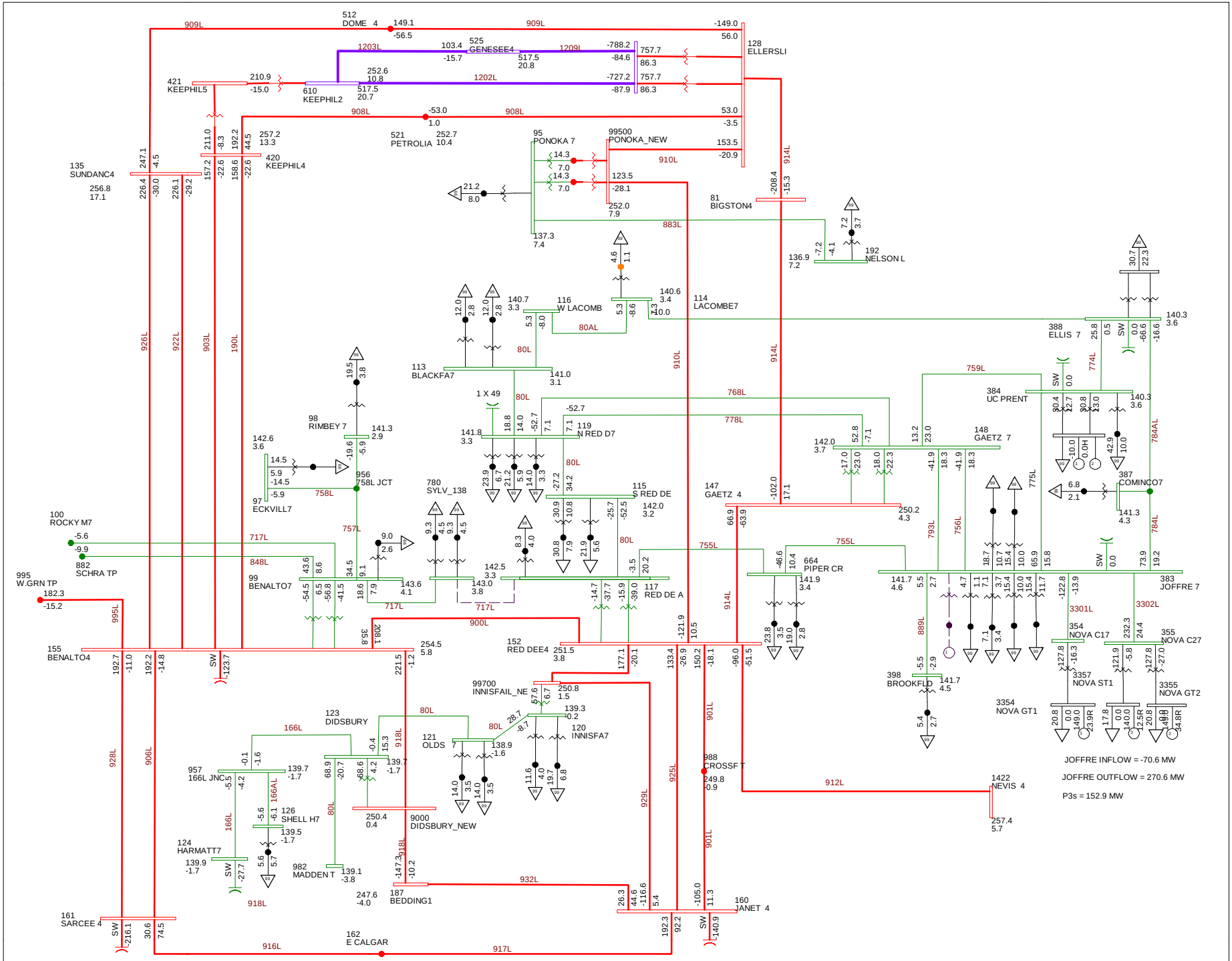
RED DEER REGION STUDY

2012 SUMMER PEAK BASE CASE REVISION 6.5

FIG 2012-ALT2-LOAD-SP-37
138 KV 717L (BENALTO 17S TO SYLVAN LAKE 580S) OUTAGE
TUE, MAR 01 2011 12:59

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR

D-2012-278



RED DEER REGION STUDY

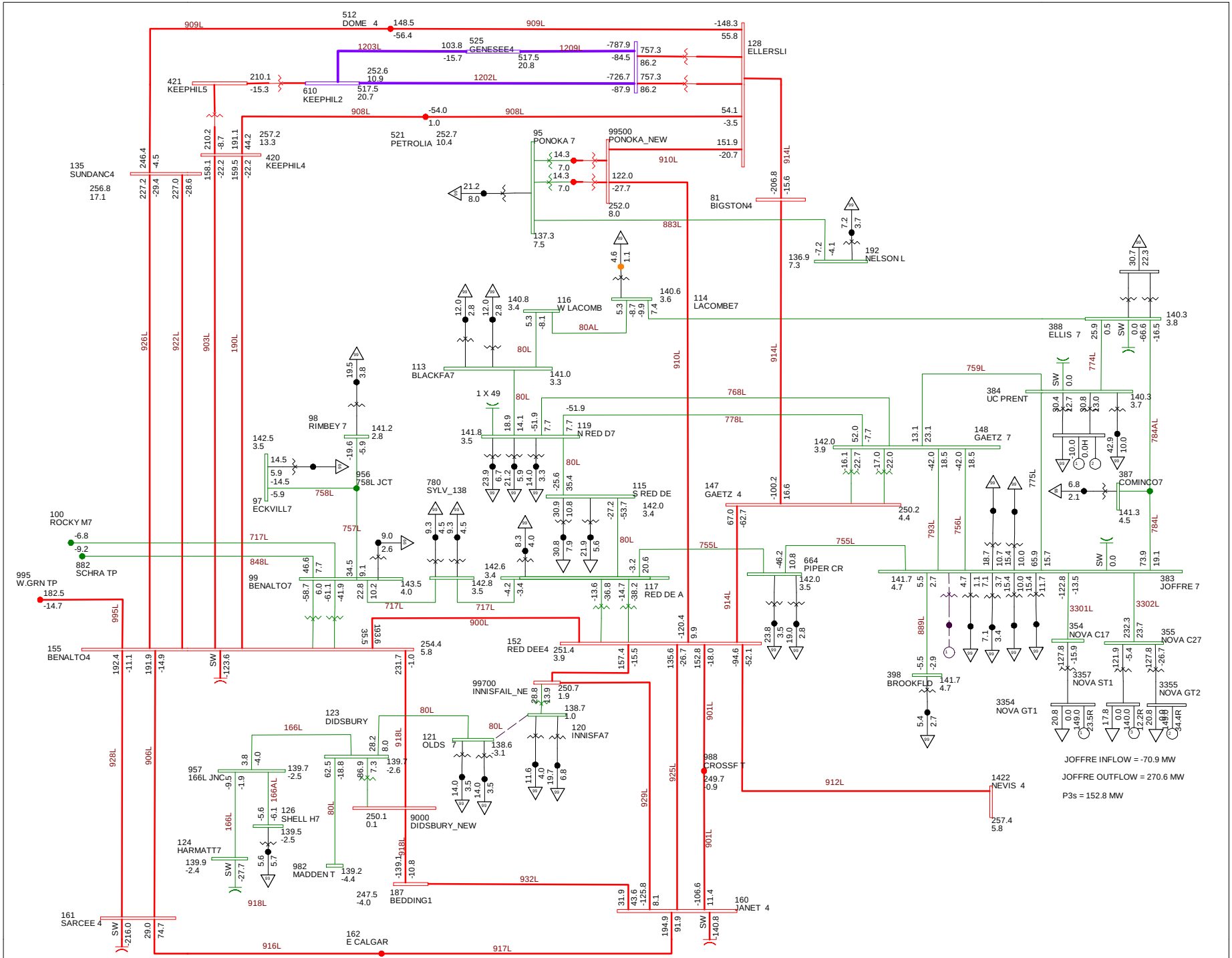
2012 SUMMER PEAK BASE CASE REVISION 6.5

FIG 2012-ALT2-LOAD-SP-38
138 KV 717L (RED DEER 63S TO SYLVAN LAKE 580S) OUTAGE
TUE, MAR 01 2011 12:59

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR

<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-279



RED DEER REGION STUDY

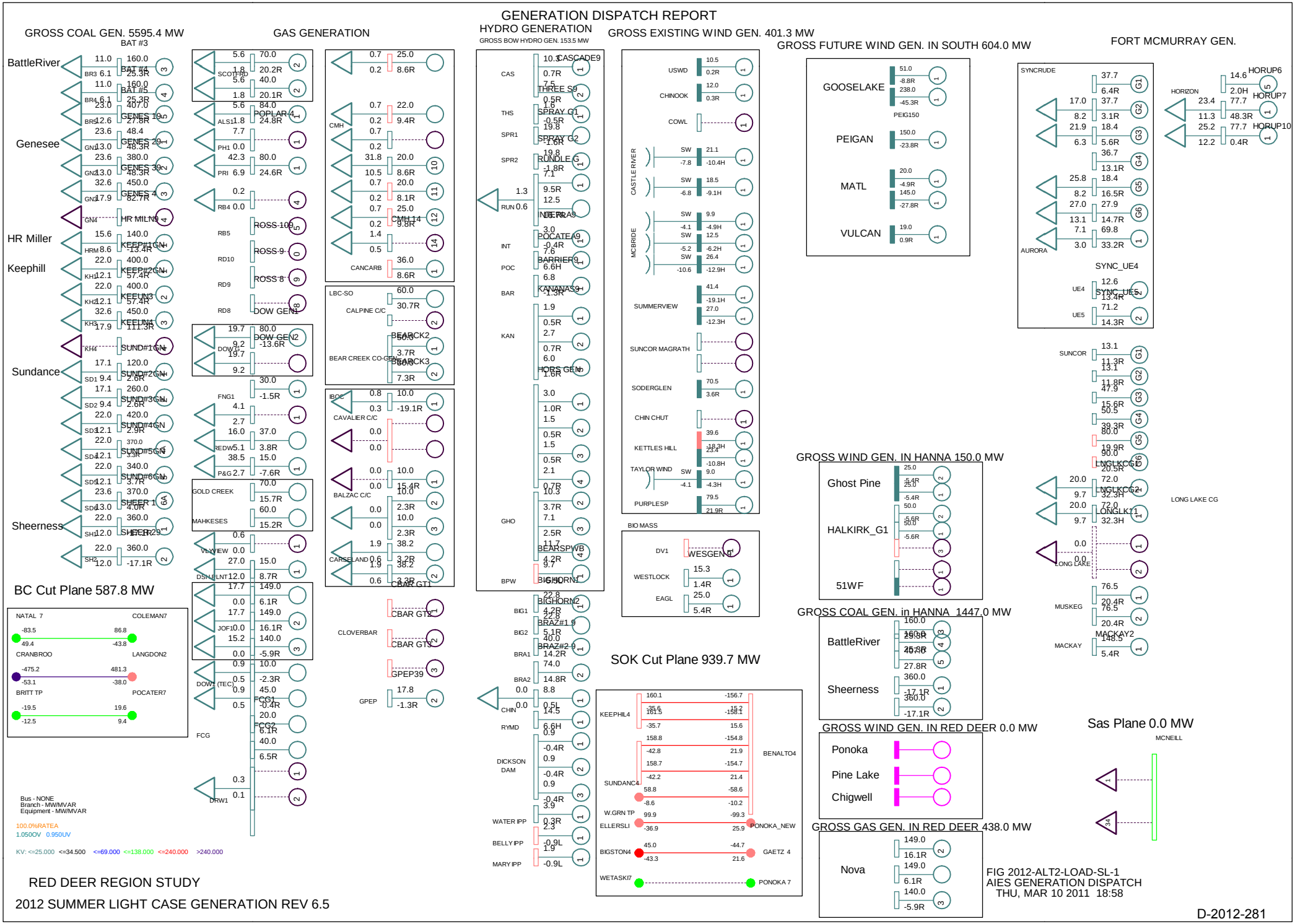
2012 SUMMER PEAK BASE CASE REVISION 6.5

FIG 2012-ALT2-LOAD-SP-39
138 KV 80L (INNISFAIL 214S TO OLDS 55S) OUTAGE
TUE, MAR 01 2011 12:59

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-280

GENERATION DISPATCH REPORT

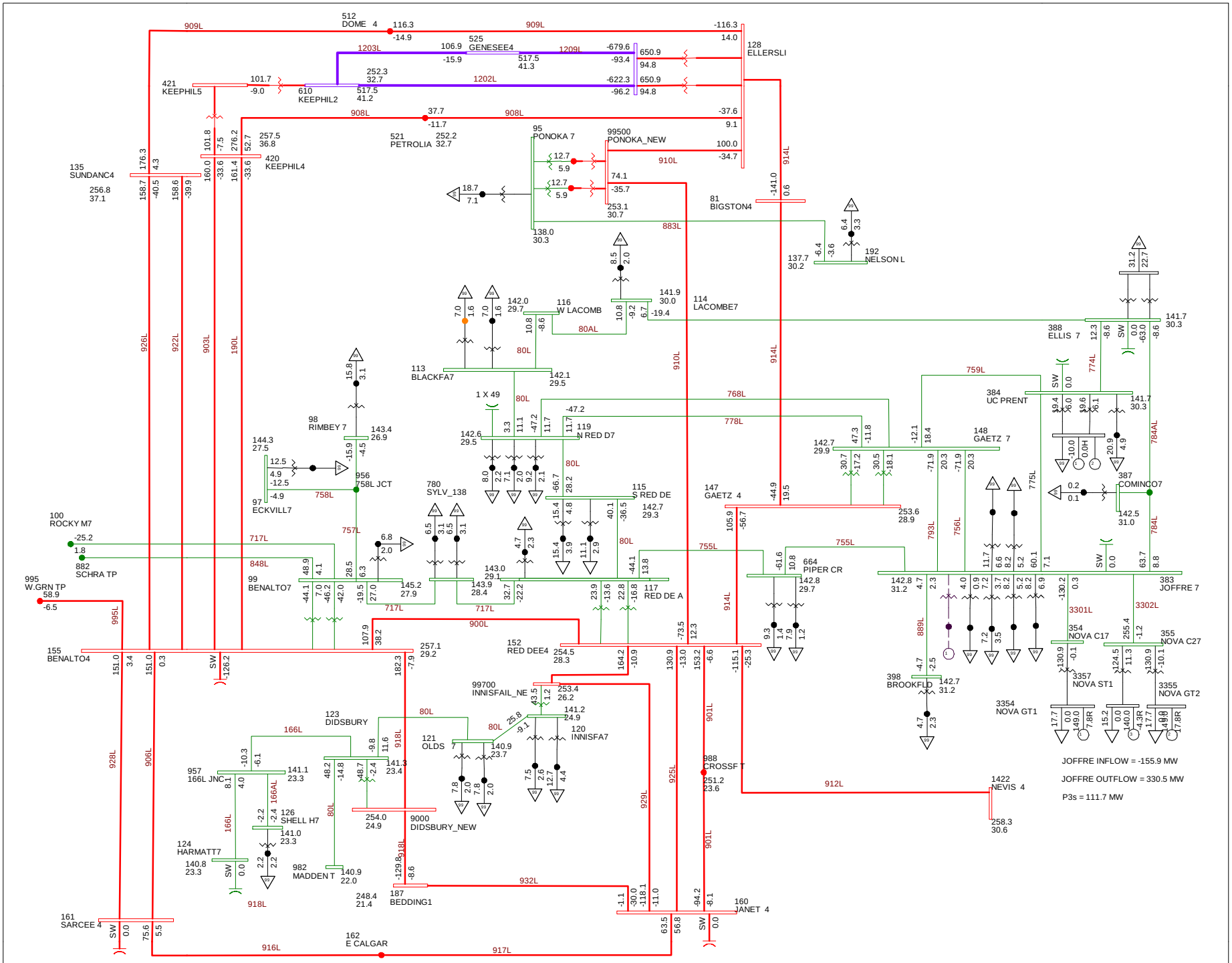


RED DEER REGION STUDY

2012 SUMMER LIGHT CASE GENERATION REV 6.5

FIG 2012-ALT2-LOAD-SL-1
AIES GENERATION DISPATCH
THU, MAR 10 2011 18:58

D-2012-281



RED DEER REGION STUDY

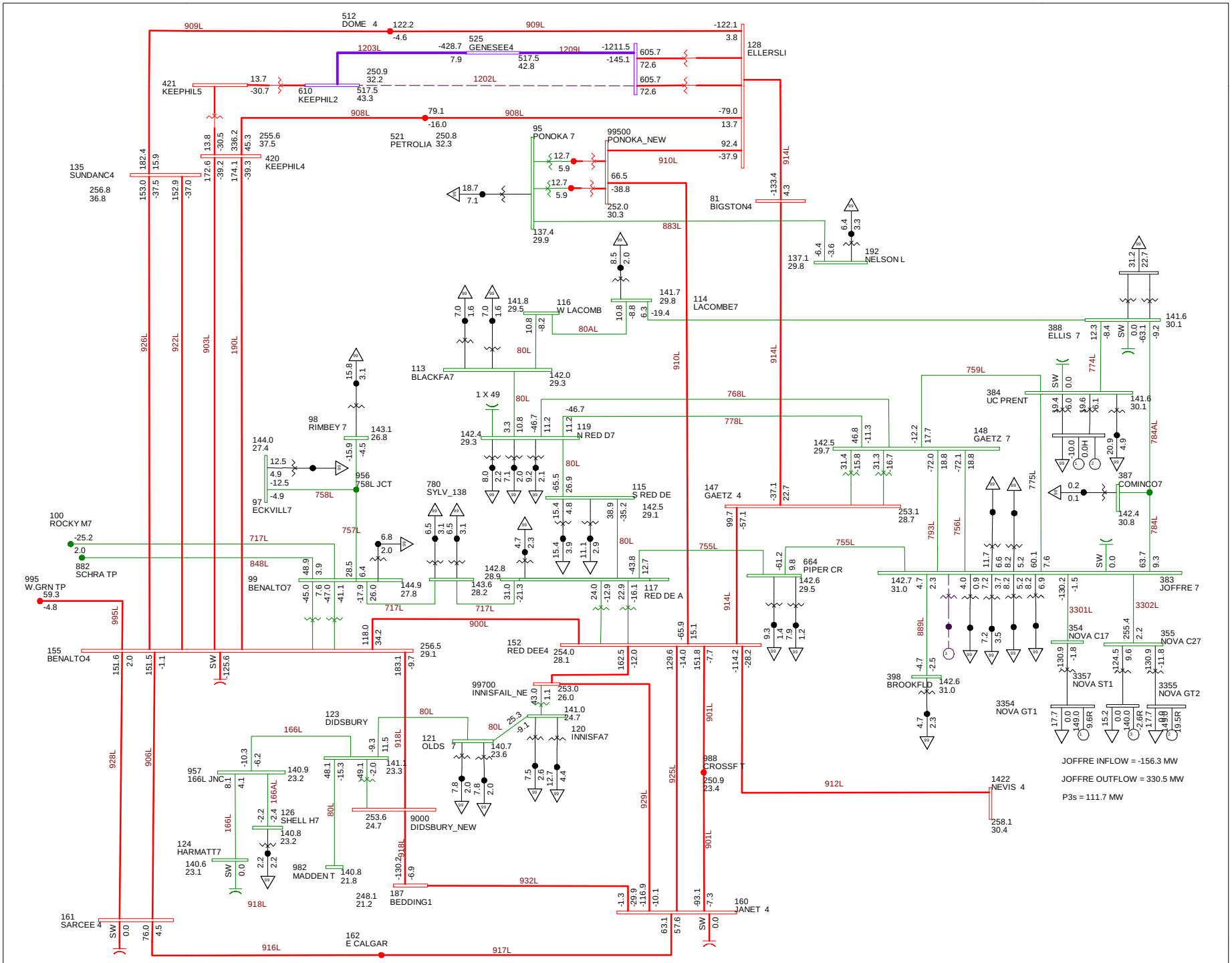
2012 SUMMER LIGHT BASE CASE REVISION 6.5

FIG 2012-ALT2-LOAD-SL-2
ALL ELEMENTS IN SERVICE
TUE, MAR 01 2011 11:19

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR

<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-282



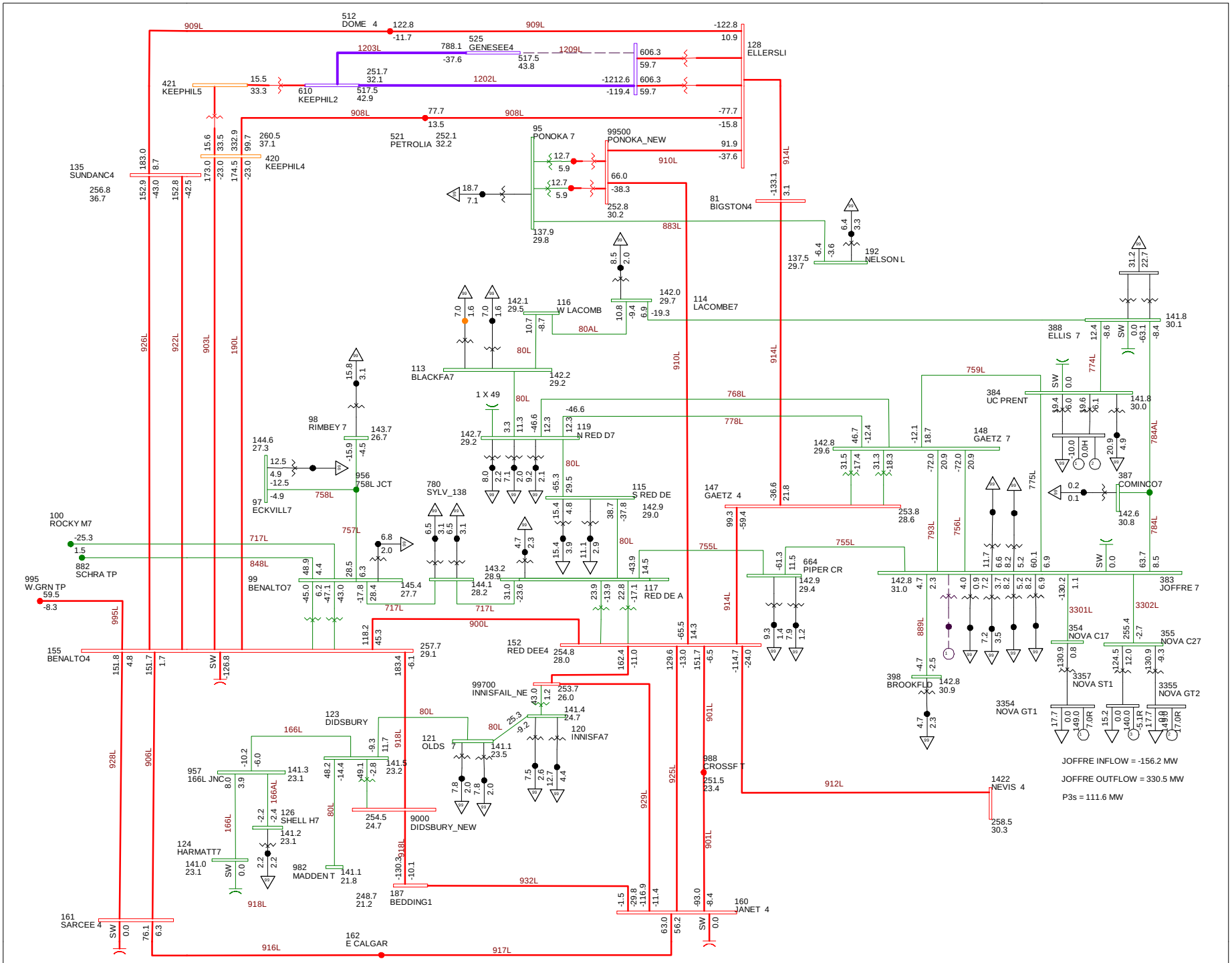
RED DEER REGION STUDY

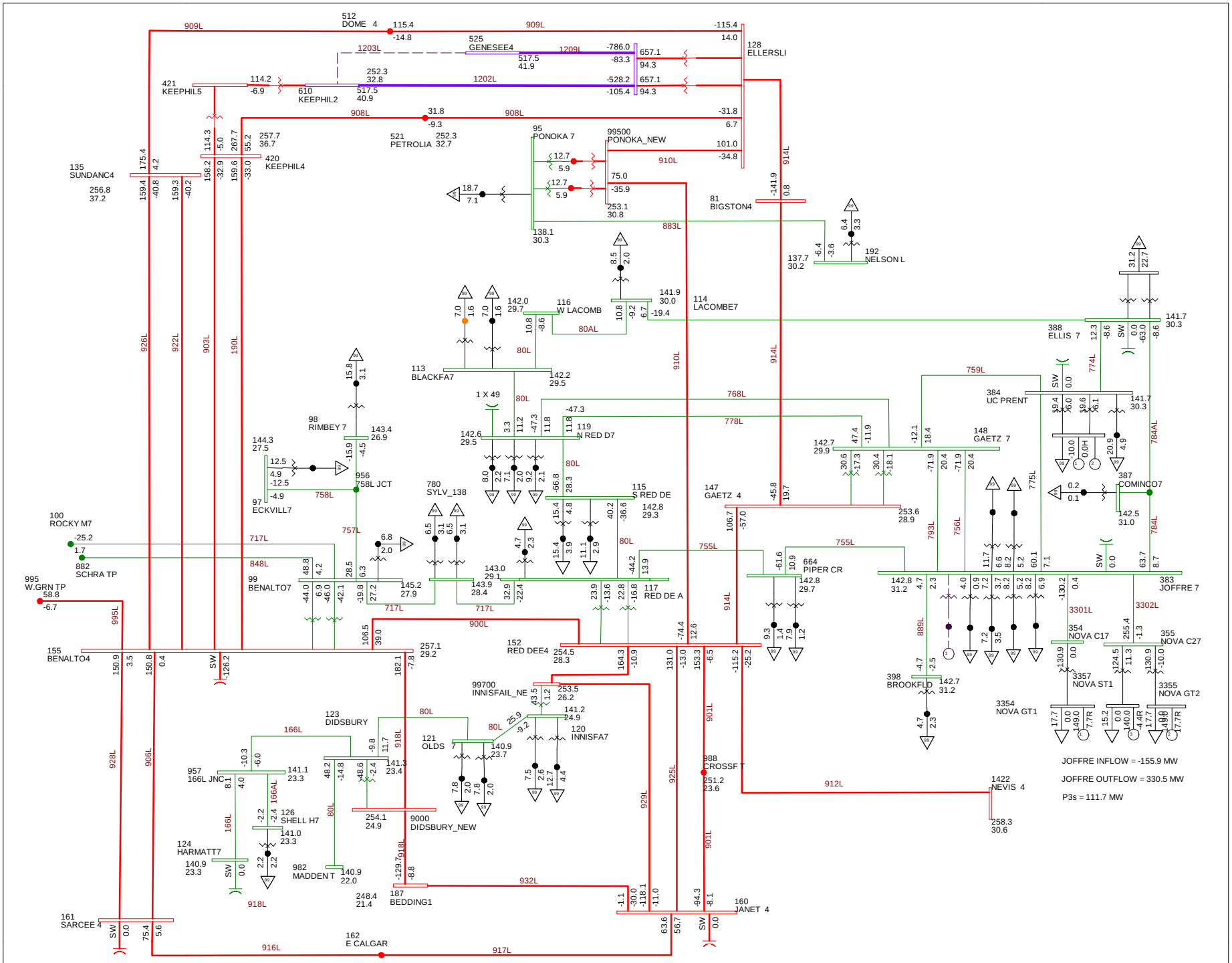
2012 SUMMER LIGHT BASE CASE REVISION 6.5

FIG 2012-ALT2-LOAD-SL-3
500KV 1202L (ELLERSLIE 89S TO KEEPHILLS 320P) OUTAGE
TUE, MAR 01 2011 11:19

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-283


512
DOME 4
122.8
-11.7
909L
525
GENESEE4
788.1
-37.6
1203L
517.5
43.8
1209L
606.3
59.7
128
ELLERSLI
-122.8
10.9
909L
421
KEEPHIL5
15.5
33.3
610
KEEPHIL2
251.7
32.1
517.5
42.9
1202L
-1212.6
-119.4
606.3
59.7
908L
77.7
13.5
908L
-77.7
-15.8
521
PETROLIA
252.1
32.2
95
PONOKA 7
99500
PONOKA_NEW
91.9
-37.6
910L
914L
-133.1
3.1
81
BIGSTON4
135
SUNDANC4
256.8
36.7
420
KEEPHIL4
260.5
37.1
66.0
-38.3
252.8
30.2
137.9
29.8
883L
192
NELSON L
137.5
29.7
114
LACOMBE7
142.0
29.7
116
W LACOMB
142.1
29.5
80AL
926L
922L
903L
190L
80L
113
BLACKFA7
142.2
29.2
910L
914L
759L
768L
778L
388
ELLIS 7
384
UC PRENT
774L
784AL
141.8
30.1
141.8
30.0
98
RIMBEY 7
143.7
26.7
144.6
27.3
956
758L JCT
758L
97
ECKVILL7
1 X 49
119
N RED D7
142.7
29.2
142.8
29.6
148
GAETZ 7
147
GAETZ 4
253.8
28.6
775L
793L
756L
387
COMINCO7
142.6
30.8
784L
780
SYLV_138
115
S RED DE
142.9
29.0
100
ROCKY M7
882
SCHRA TP
717L
848L
757L
99
BENALTO7
145.4
27.7
143.2
28.9
144.1
28.2
755L
664
PIPER CR
142.9
29.4
383
JOFFRE 7
995
W.GRN TP
59.5
995L
155
BENALTO4
257.7
29.1
900L
152
RED DEE4
254.8
28.0
117
RED DE A
914L
889L
3301L
3302L
354
NOVA C17
355
NOVA C27
398
BROOKFLD
142.8
30.9
3357
NOVA ST1
3355
NOVA GT2
3354
NOVA GT1
99700
INNISFAIL_NE
253.7
26.0
141.4
24.7
120
INNISFA7
123
DIDSBURY
166L
121
OLDS 7
141.1
23.5
957
166L JNC
141.3
23.1
141.5
23.2
928L
906L
918L
901L
988
CROSSFT
251.5
23.4
912L
1422
NEVIS 4
258.5
30.3
JOFFRE INFLOW = -156.2 MW
JOFFRE OUTFLOW = 330.5 MW
P3s = 111.6 MW
126
SHELL H7
141.2
23.1
124
HARMATT7
141.0
23.1
982
MADDEN T
141.1
21.8
254.5
24.7
9000
DIDSBURY_NEW
929L
925L
932L
187
BEDDING1
248.7
21.2
160
JANET 4
161
SARCEE 4
162
E CALGAR
916L
917L
RED DEER REGION STUDY
2012 SUMMER LIGHT BASE CASE REVISION 6.5
FIG 2012-ALT2-LOAD-SL-4
500KV 1209L (ELLERSLIE 89S TO GENESEE E330P) OUTAGE
TUE, MAR 01 2011 11:19
Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000
<=138.000
>500.000
<=34.500
<=240.000
<=500.000
D-2012-284



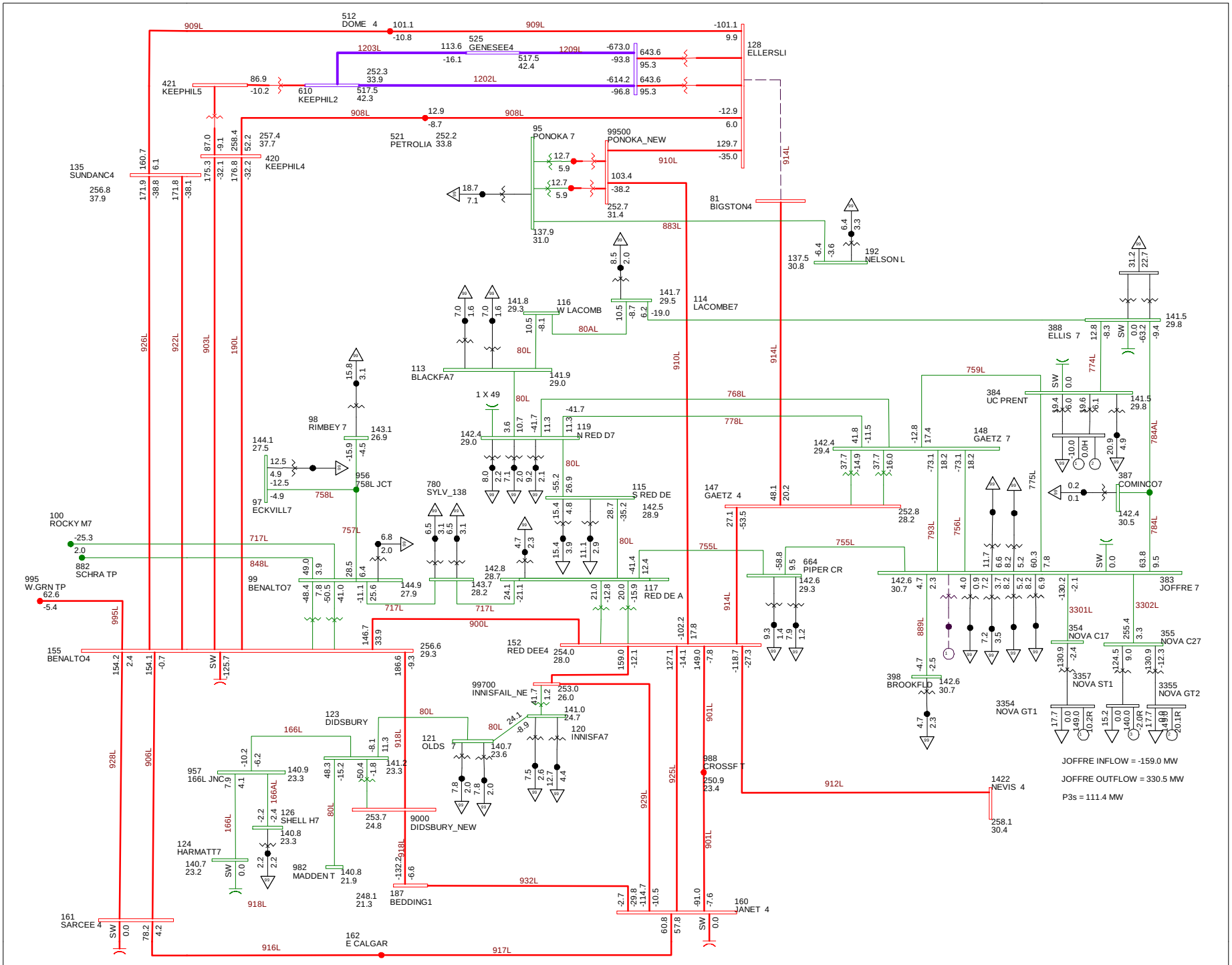
RED DEER REGION STUDY

2012 SUMMER LIGHT BASE CASE REVISION 6.5

FIG 2012-ALT2-LOAD-SL-5
500KV 1203L (GENESEE E330P TO KEEPHILLS 320P) OUTAGE
TUE, MAR 01 2011 11:19

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-285



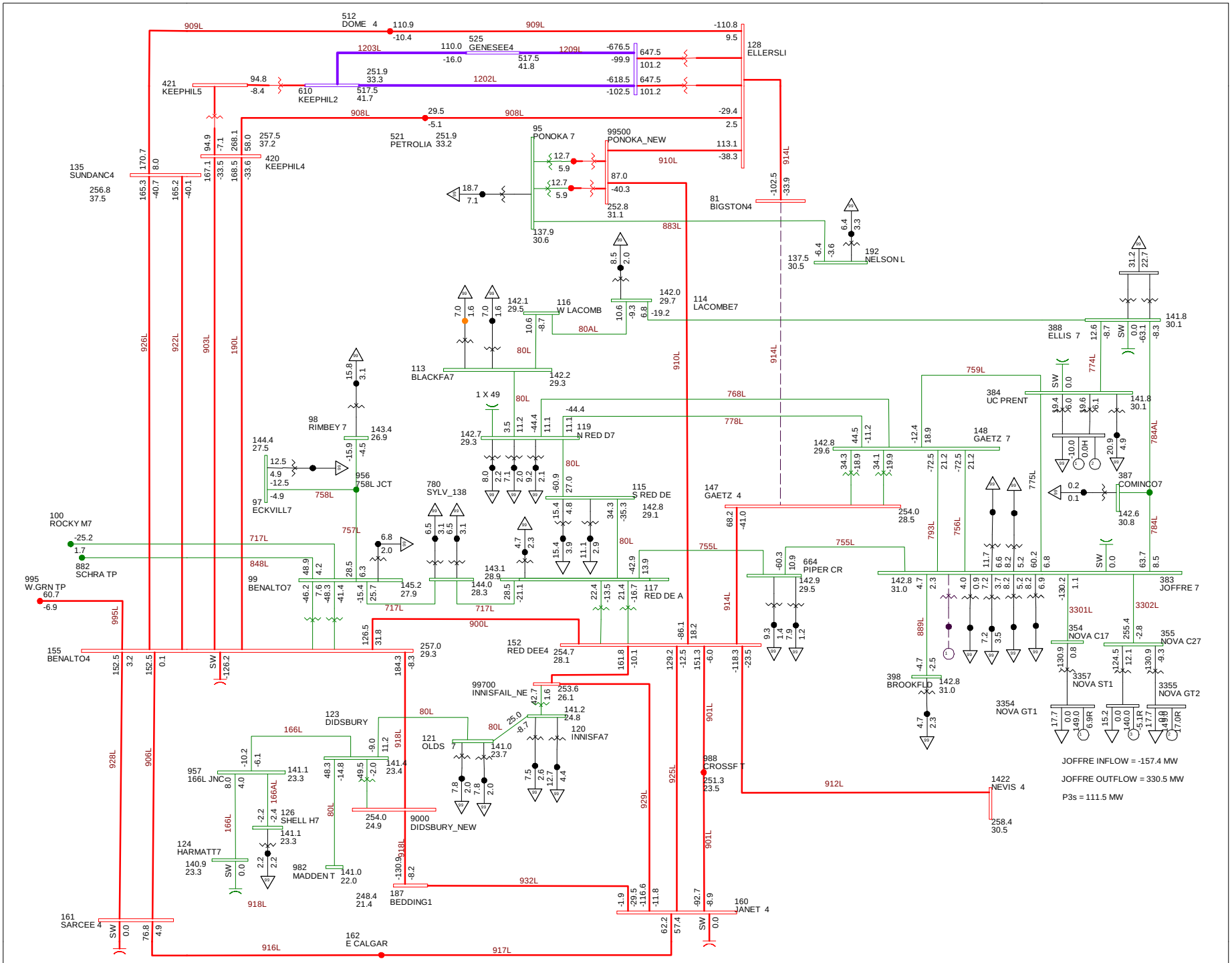
RED DEER REGION STUDY

2012 SUMMER LIGHT BASE CASE REVISION 6.5

FIG 2012-ALT2-LOAD-SL-6
240KV 914L (ELLERSLIE 89S TO BIGSTONE 86S) OUTAGE
TUE, MAR 01 2011 11:19

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-286



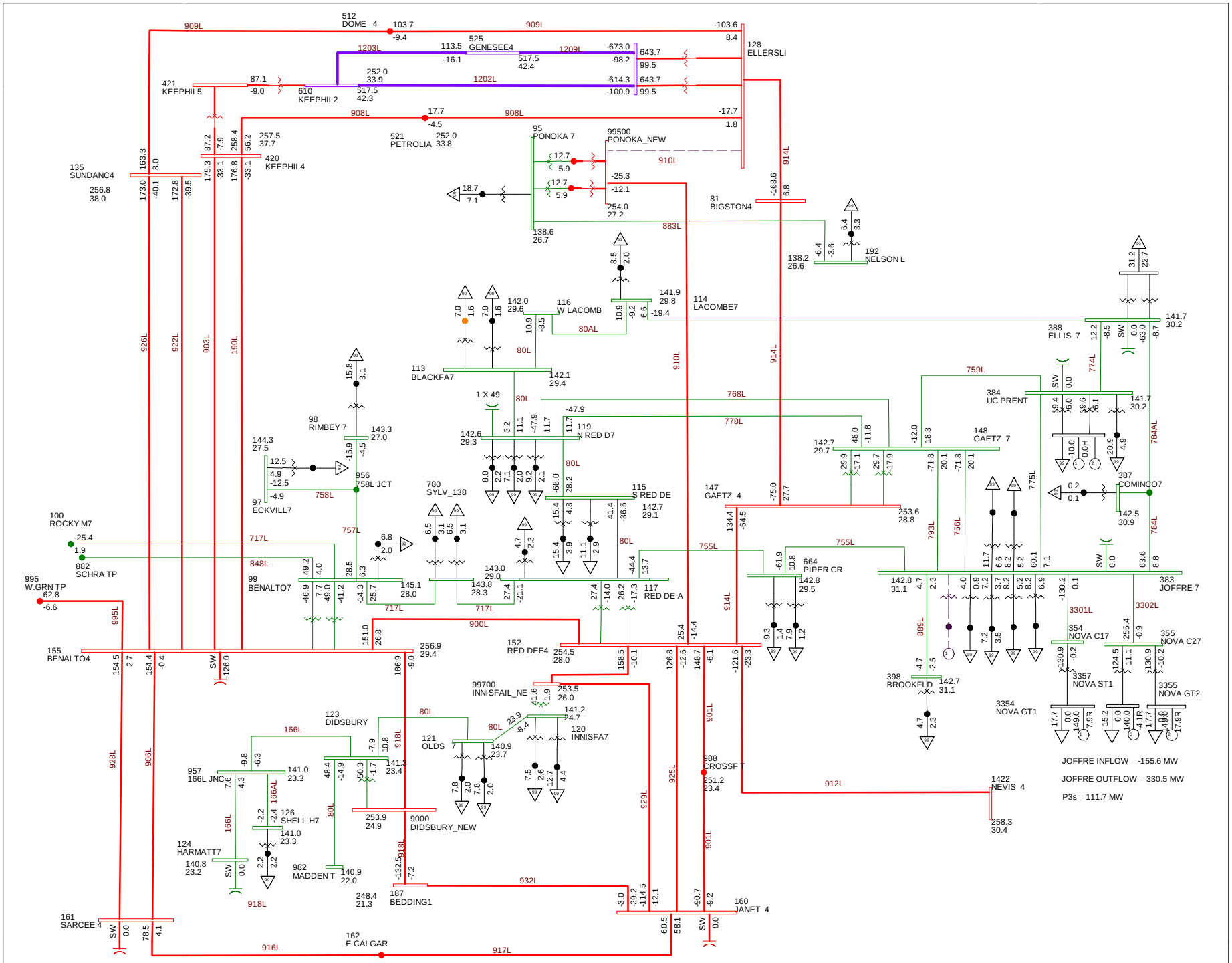
RED DEER REGION STUDY

2012 SUMMER LIGHT BASE CASE REVISION 6.5

FIG 2012-ALT2-LOAD-SL-7
240KV 914L (BIGSTONE 86S TO GAETZ 87S) OUTAGE
TUE, MAR 01 2011 11:19

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-287



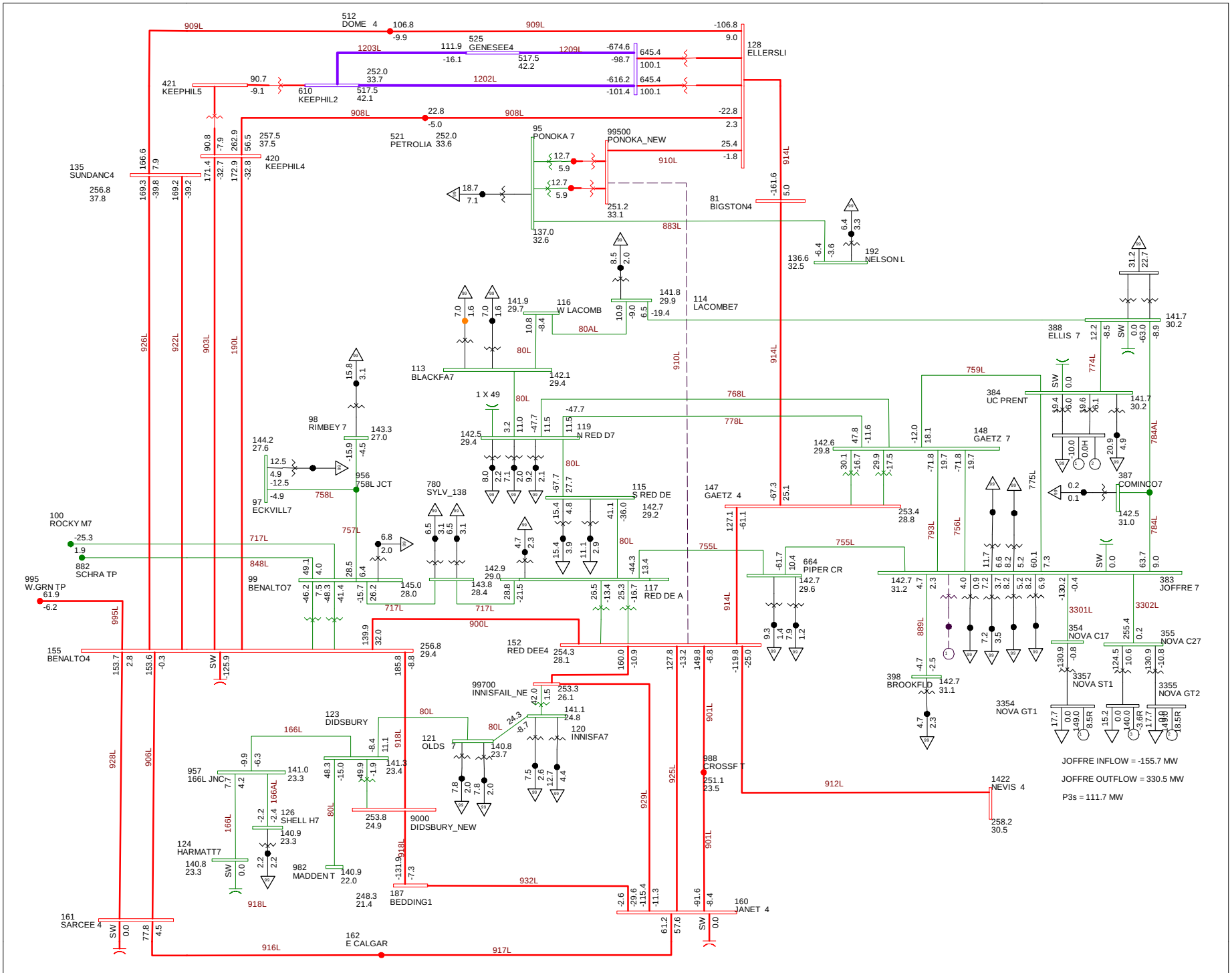
RED DEER REGION STUDY

2012 SUMMER LIGHT BASE CASE REVISION 6.5

FIG 2012-ALT2-LOAD-SL-8
240KV 910L (ELLERSLIE 89S TO PONOKA 331S) OUTAGE
TUE, MAR 01 2011 11:19

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-288



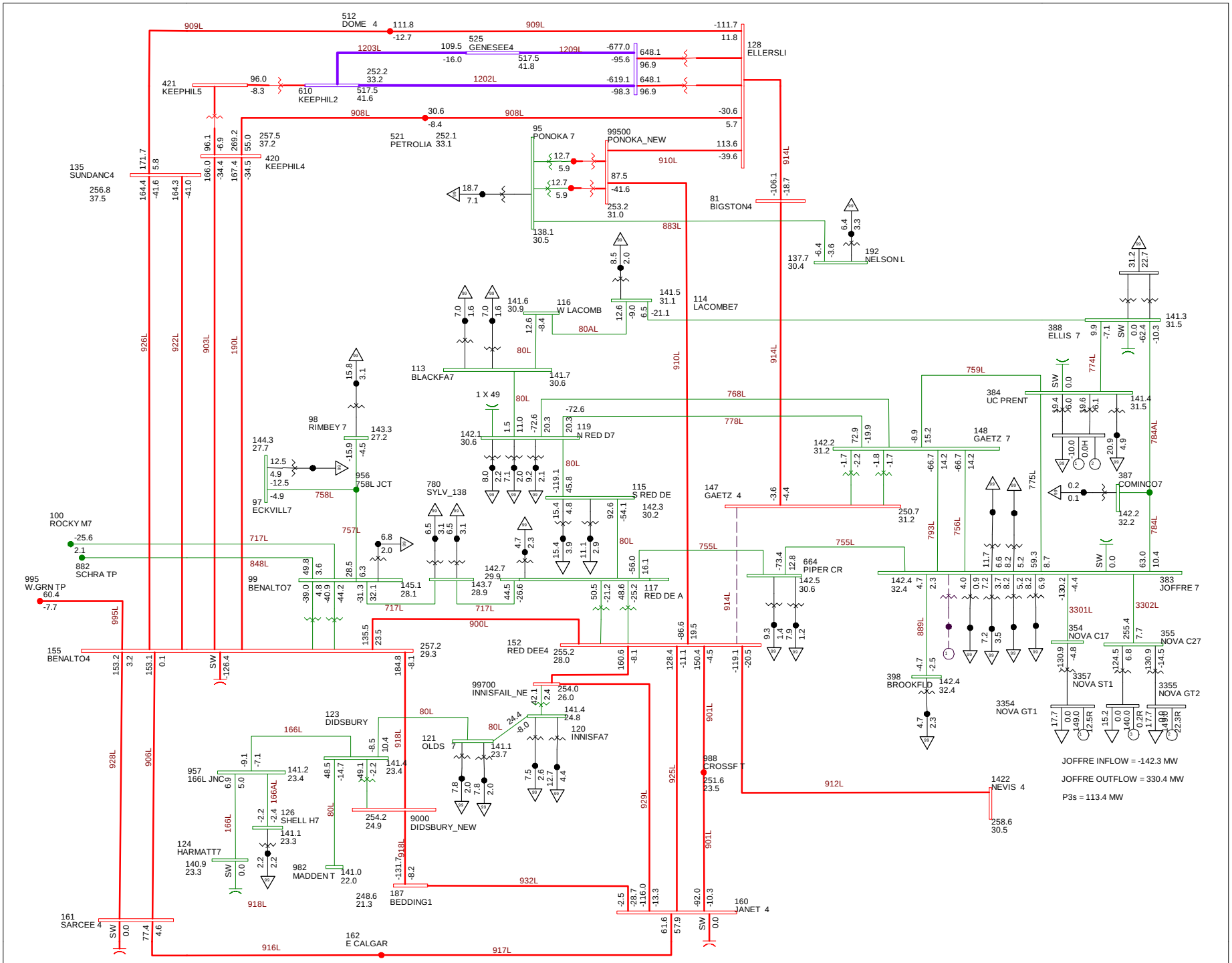
RED DEER REGION STUDY

2012 SUMMER LIGHT BASE CASE REVISION 6.5

FIG 2012-ALT2-LOAD-SL-9
240KV 910L (PONOKA 331S TO RED DEER 63S) OUTAGE
TUE, MAR 01 2011 11:19

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-289



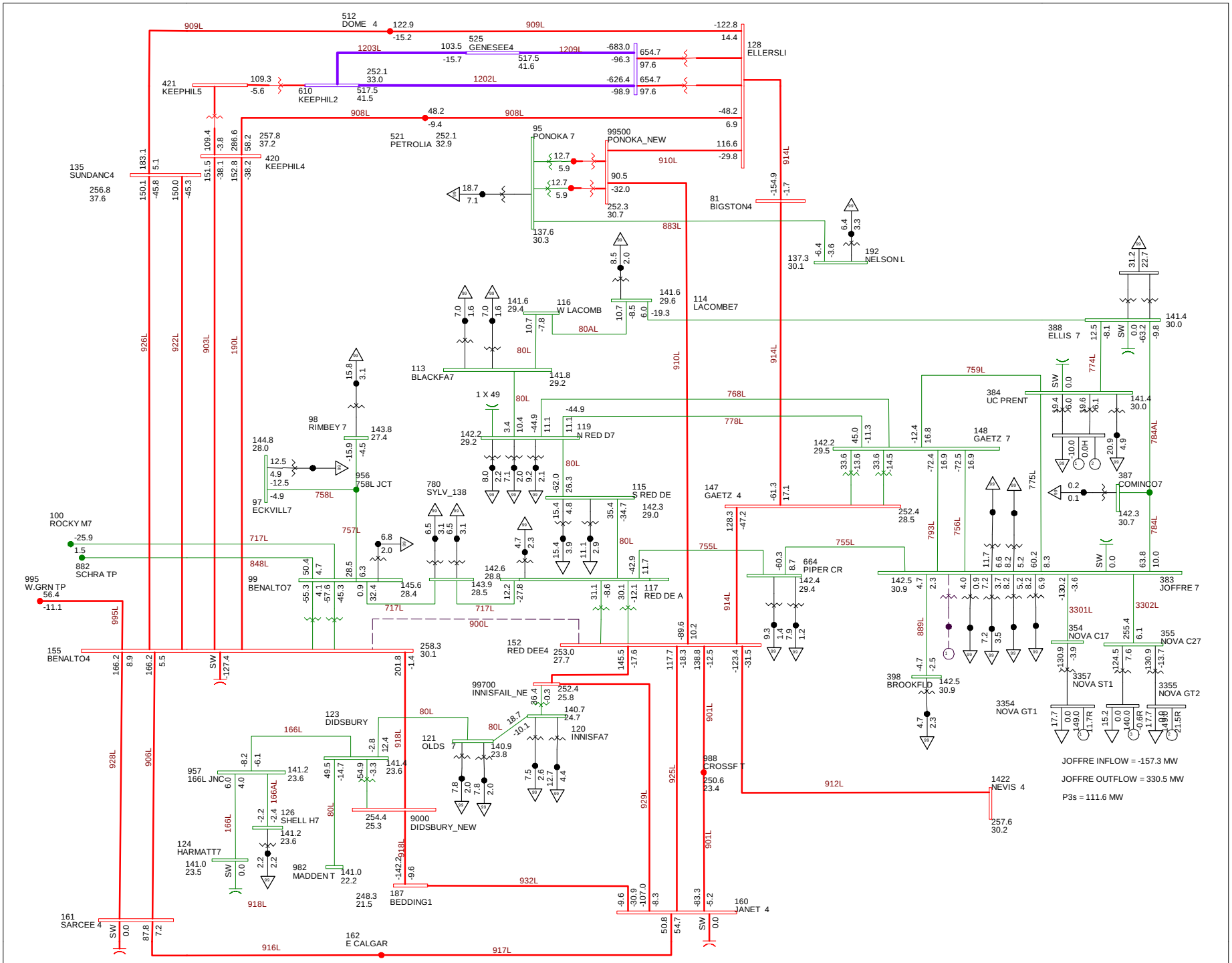
RED DEER REGION STUDY

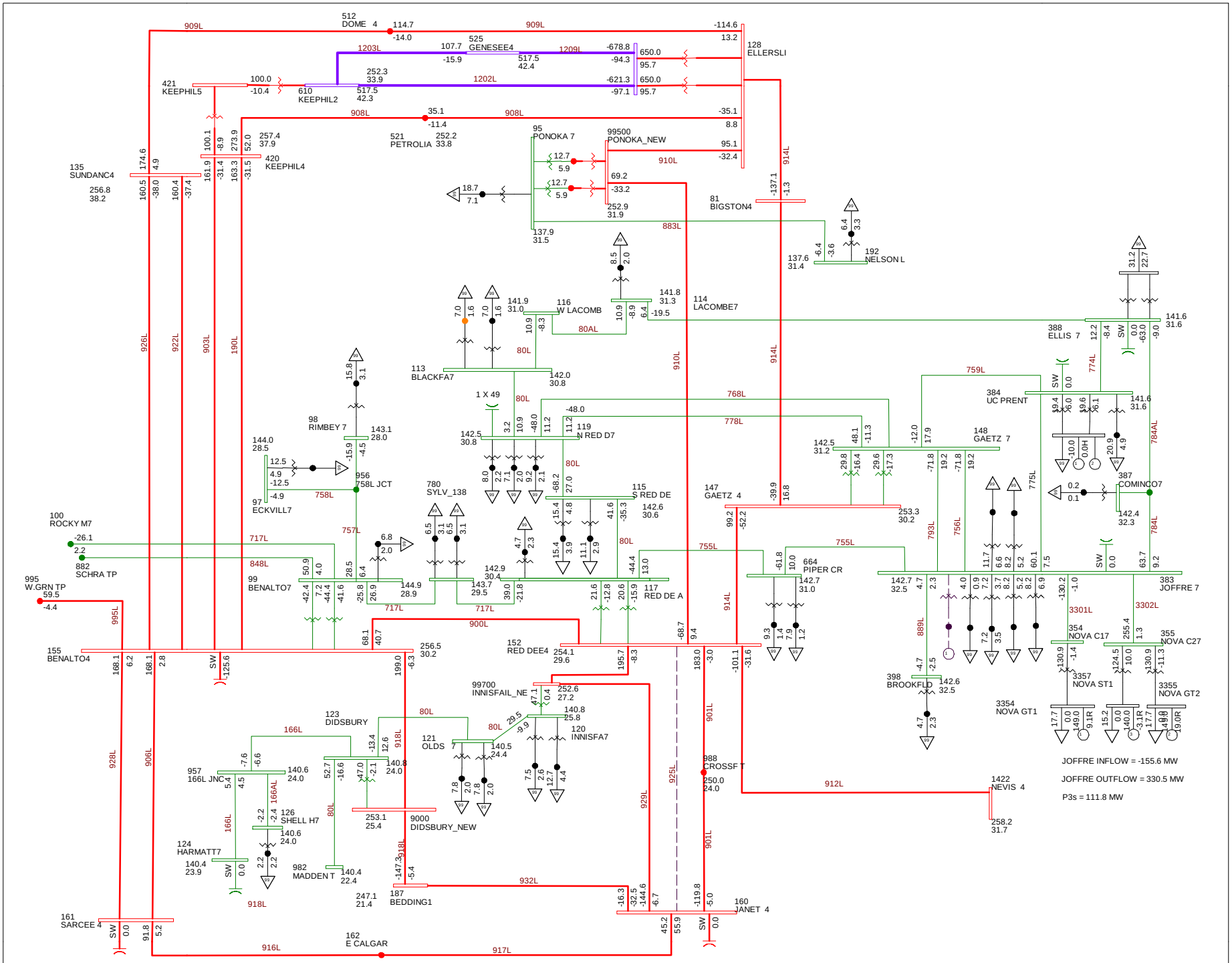
2012 SUMMER LIGHT BASE CASE REVISION 6.5

FIG 2012-ALT2-LOAD-SL-10
240KV 914L (GAETZ 87S TO RED DEER 63S) OUTAGE
TUE, MAR 01 2011 11:19

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-290


512
DOME 4
122.9
-15.2
909L
-122.8
14.4
525
GENESEE4
1203L
1209L
1202L
103.5
-15.7
517.5
41.6
-683.0
-96.3
654.7
97.6
128
ELLERSLI
252.1
33.0
517.5
41.5
-626.4
-98.9
654.7
97.6
421
KEEPHIL5
109.3
-5.6
610
KEEPHIL2
908L
48.2
-9.4
-48.2
6.9
521
PETROLIA
252.1
32.9
95
PONOKA 7
99500
PONOKA_NEW
116.6
-29.8
910L
914L
12.7
5.9
90.5
-32.0
252.3
30.7
137.6
30.3
18.7
7.1
-154.9
-1.7
81
BIGSTON4
883L
6.4
3.3
137.3
30.1
192
NELSON L
257.8
37.2
420
KEEPHIL4
135
SUNDANC4
256.8
37.6
183.1
5.1
150.1
-45.8
150.0
-45.3
926L
922L
903L
190L
8.5
2.0
141.6
29.6
-19.3
114
LACOMBE7
116
W LACOMB
141.6
29.4
10.7
-7.8
80AL
80L
113
BLACKFA7
141.8
29.2
759L
774L
388
ELLIS 7
141.4
30.0
768L
778L
384
UC PRENT
98
RIMBEY 7
143.8
27.4
144.8
28.0
12.5
4.9
-12.5
-4.9
956
758L JCT
758L
97
ECKVILL7
1 X 49
119
N RED D7
142.2
29.2
-44.9
142.2
29.5
45.0
-11.3
148
GAETZ 7
784AL
387
COMINCO7
142.3
30.7
780
SYLV_138
115
S RED DE
142.3
29.0
147
GAETZ 4
252.4
28.5
775L
100
ROCKY M7
-25.9
1.5
882
SCHRA TP
717L
757L
848L
99
BENALTO7
145.6
28.4
142.6
28.8
143.9
28.5
117
RED DE A
664
PIPER CR
142.4
29.4
755L
793L
756L
784L
383
JOFFRE 7
995
W.GRN TP
56.4
-11.1
995L
900L
155
BENALTO4
258.3
30.1
152
RED DEE4
253.0
27.7
914L
889L
3301L
3302L
354
NOVA C17
355
NOVA C27
398
BROOKFLD
142.5
30.9
3357
NOVA ST1
3355
NOVA GT2
3354
NOVA GT1
JOFFRE INFLOW = -157.3 MW
JOFFRE OUTFLOW = 330.5 MW
P3s = 111.6 MW
99700
INNISFAIL_NE
252.4
25.8
140.7
24.7
123
DIDSBURY
166L
918L
121
OLDS 7
140.9
23.8
120
INNISFA7
957
166L JNC
141.2
23.6
141.4
23.6
928L
906L
901L
988
CROSSFT
250.6
23.4
912L
1422
NEVIS 4
257.6
30.2
929L
925L
126
SHELL H7
141.2
23.6
124
HARMATT7
141.0
23.5
982
MADDEN T
141.0
22.2
254.4
25.3
9000
DIDSBURY_NEW
932L
187
BEDDING1
248.3
21.5
160
JANET 4
161
SARCEE 4
916L
162
E CALGAR
917L
RED DEER REGION STUDY
2012 SUMMER LIGHT BASE CASE REVISION 6.5
FIG 2012-ALT2-LOAD-SL-11
240KV 900L (RED DEER 63S TO BENALTO 17S) OUTAGE
TUE, MAR 01 2011 11:19
Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000
<=138.000
>500.000
<=34.500
<=240.000
<=500.000
D-2012-291



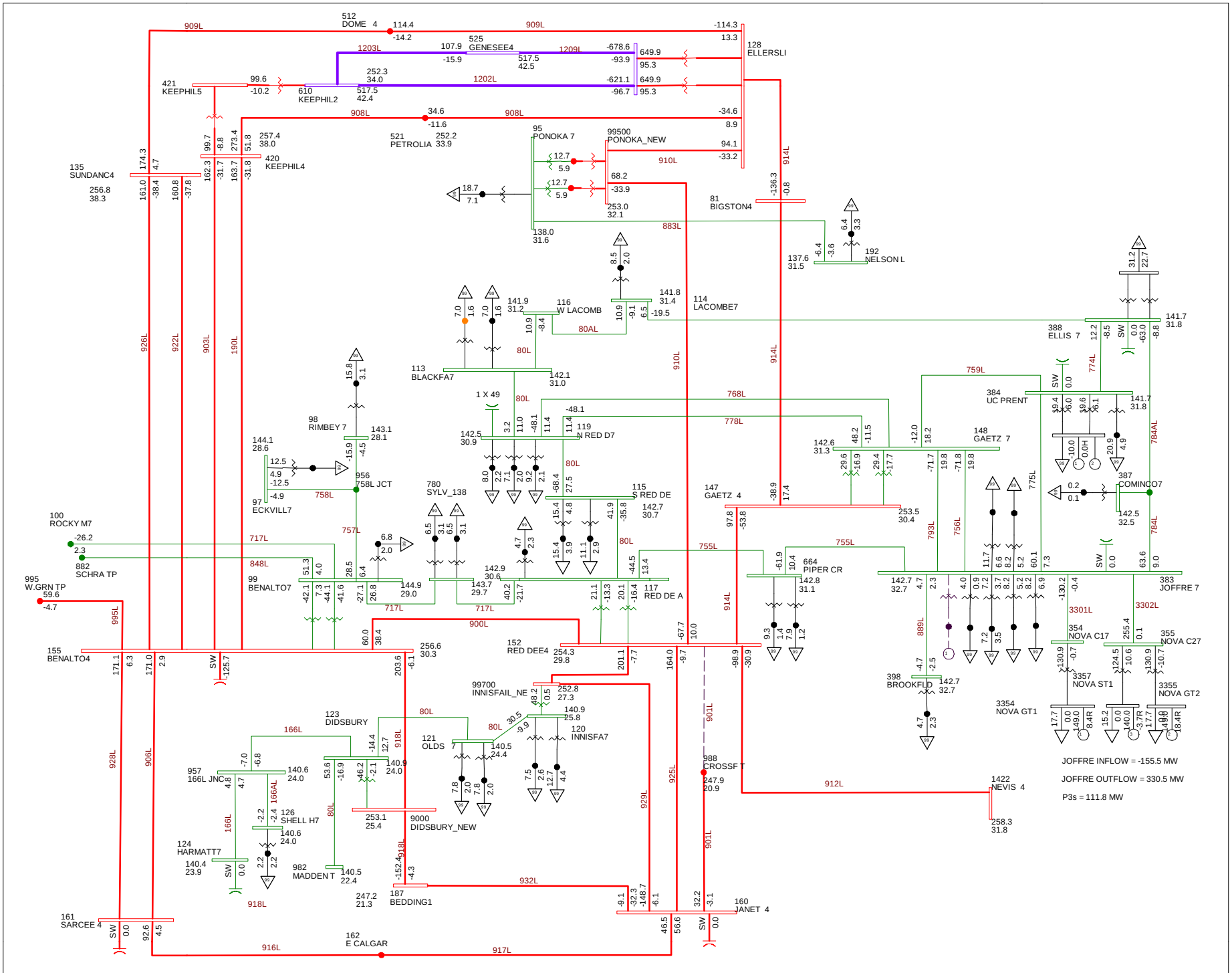
RED DEER REGION STUDY

2012 SUMMER LIGHT BASE CASE REVISION 6.5

FIG 2012-ALT2-LOAD-SL-12
240KV 925L (RED DEER 63S TO JANET 74S) OUTAGE
TUE, MAR 01 2011 11:19

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-292



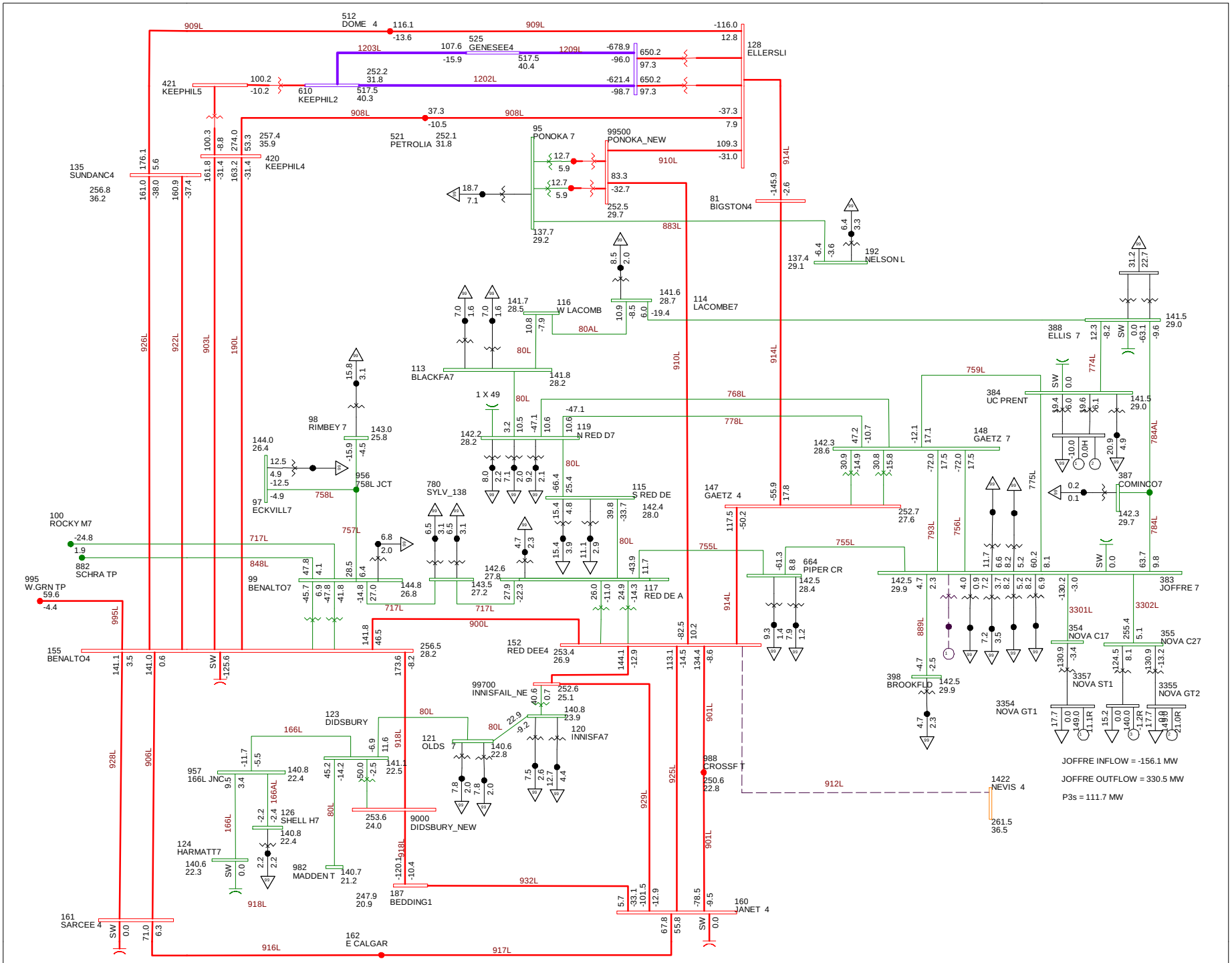
RED DEER REGION STUDY

2012 SUMMER LIGHT BASE CASE REVISION 6.5

FIG 2012-ALT2-LOAD-SL-13
240KV 901L (RED DEER 63S TO CROSSFIELD 64S) OUTAGE
TUE, MAR 01 2011 11:19

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-293



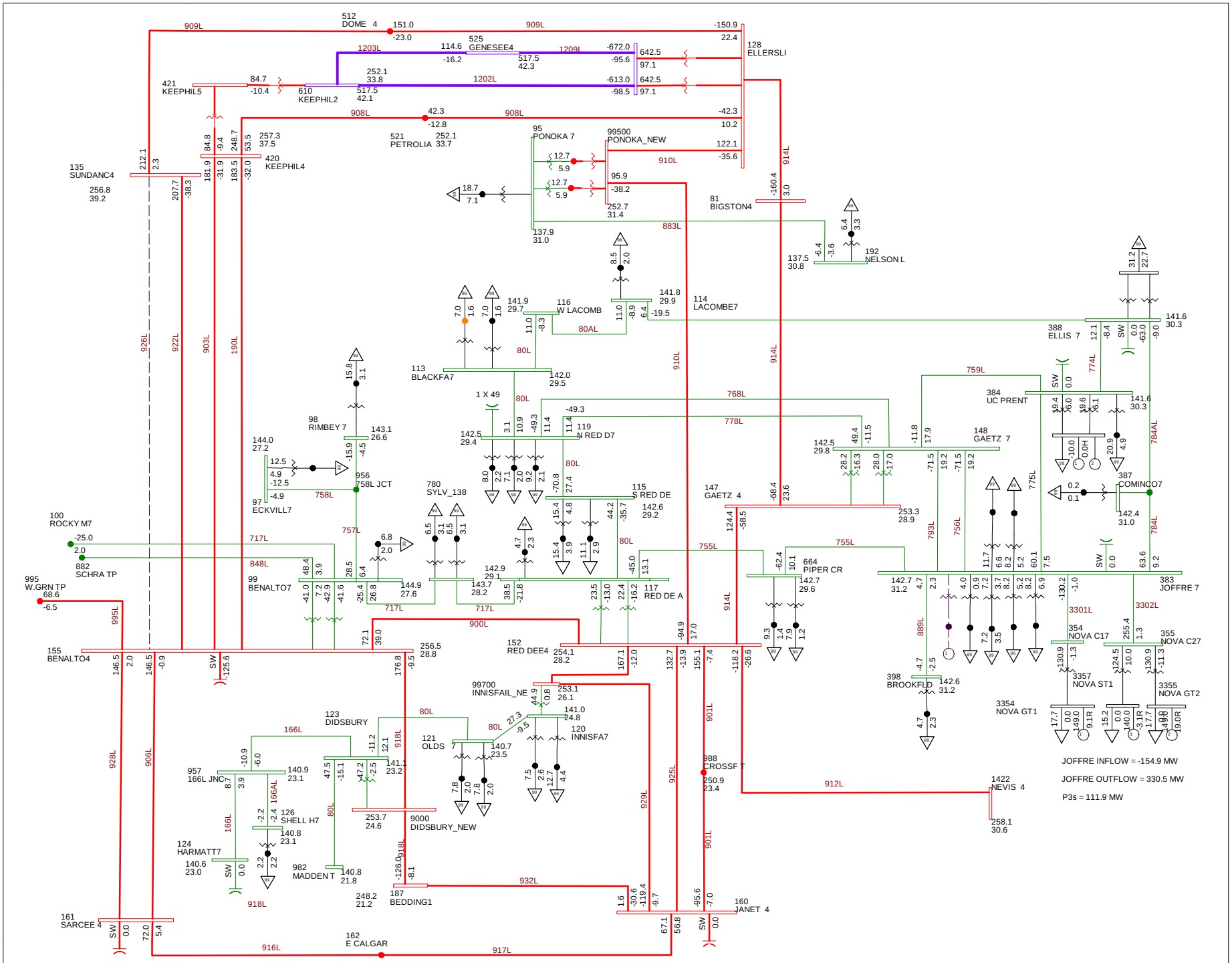
RED DEER REGION STUDY

2012 SUMMER LIGHT BASE CASE REVISION 6.5

FIG 2012-ALT2-LOAD-SL-14
240KV 912L (RED DEER 63S TO NEVIS 766S) OUTAGE
TUE, MAR 01 2011 11:19

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-294



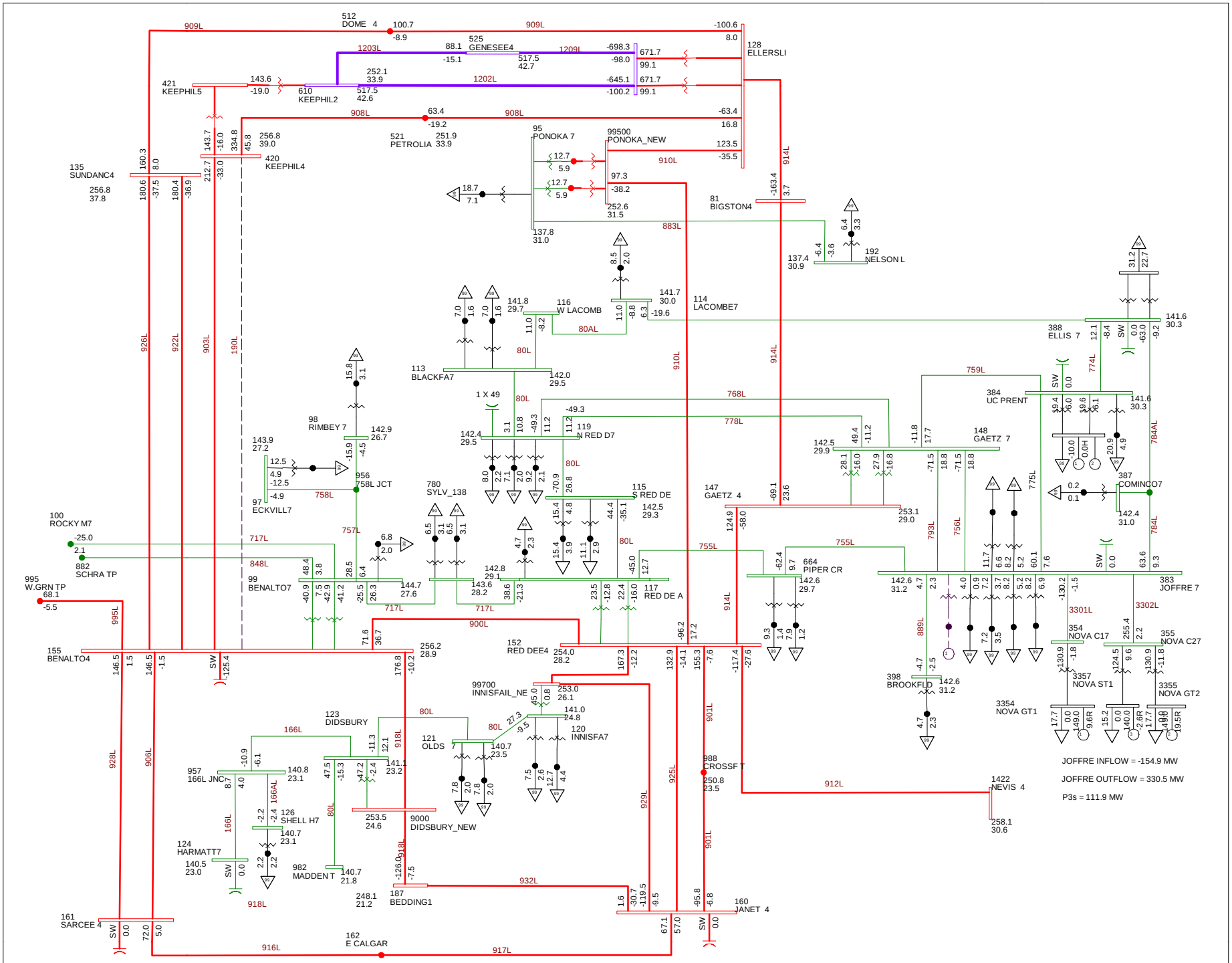
RED DEER REGION STUDY

2012 SUMMER LIGHT BASE CASE REVISION 6.5

FIG 2012-ALT2-LOAD-SL-15
240 KV 926/922L (SUNDANCE 310P TO BENALTO 17S) OUTAGE
TUE, MAR 01 2011 11:19

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-295



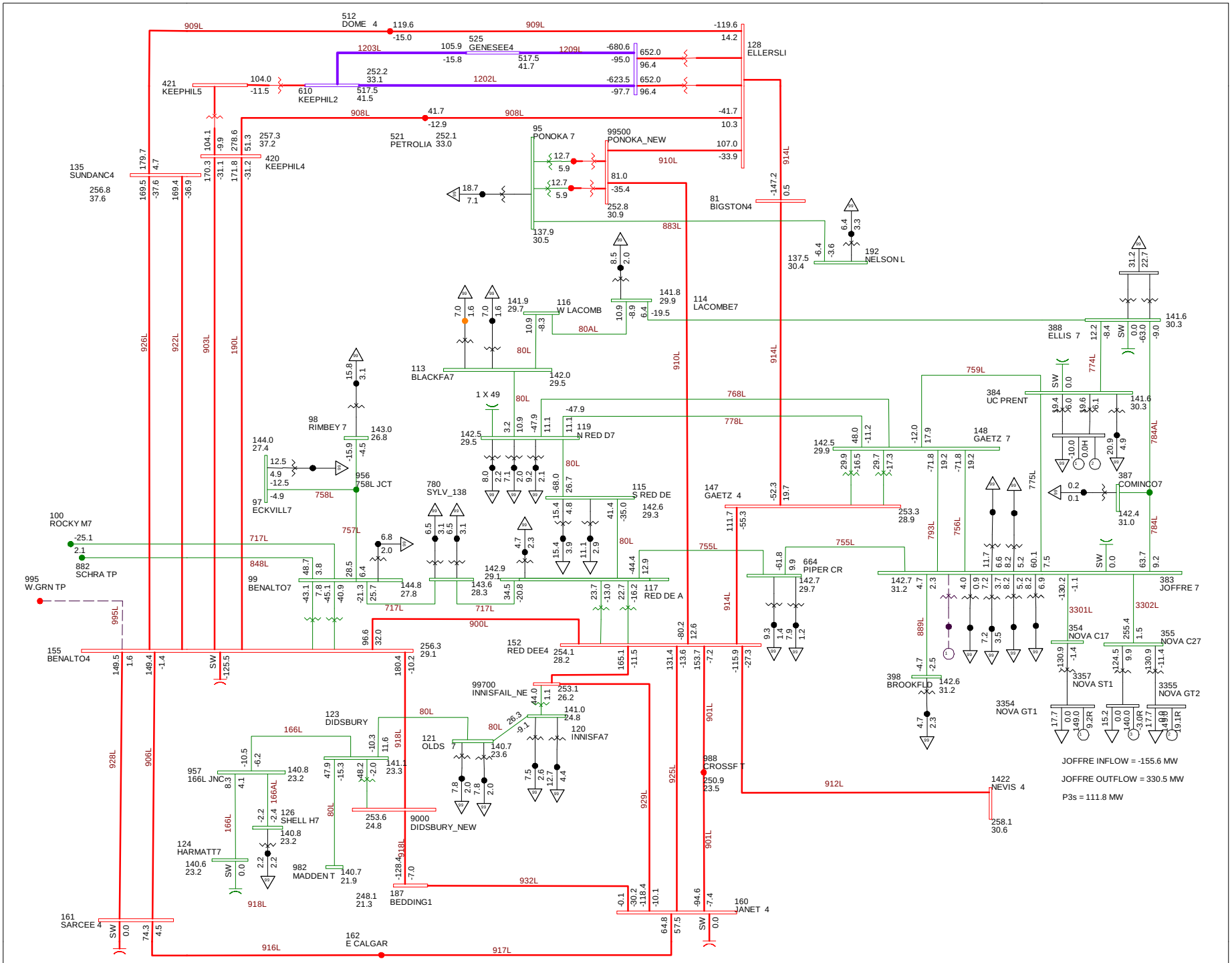
RED DEER REGION STUDY

2012 SUMMER LIGHT BASE CASE REVISION 6.5

FIG 2012-ALT2-LOAD-SL-16
240KV 190/903L (KEEPHILLS 320P TO BENALTO 17S) OUTAGE
TUE, MAR 01 2011 11:19

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-296



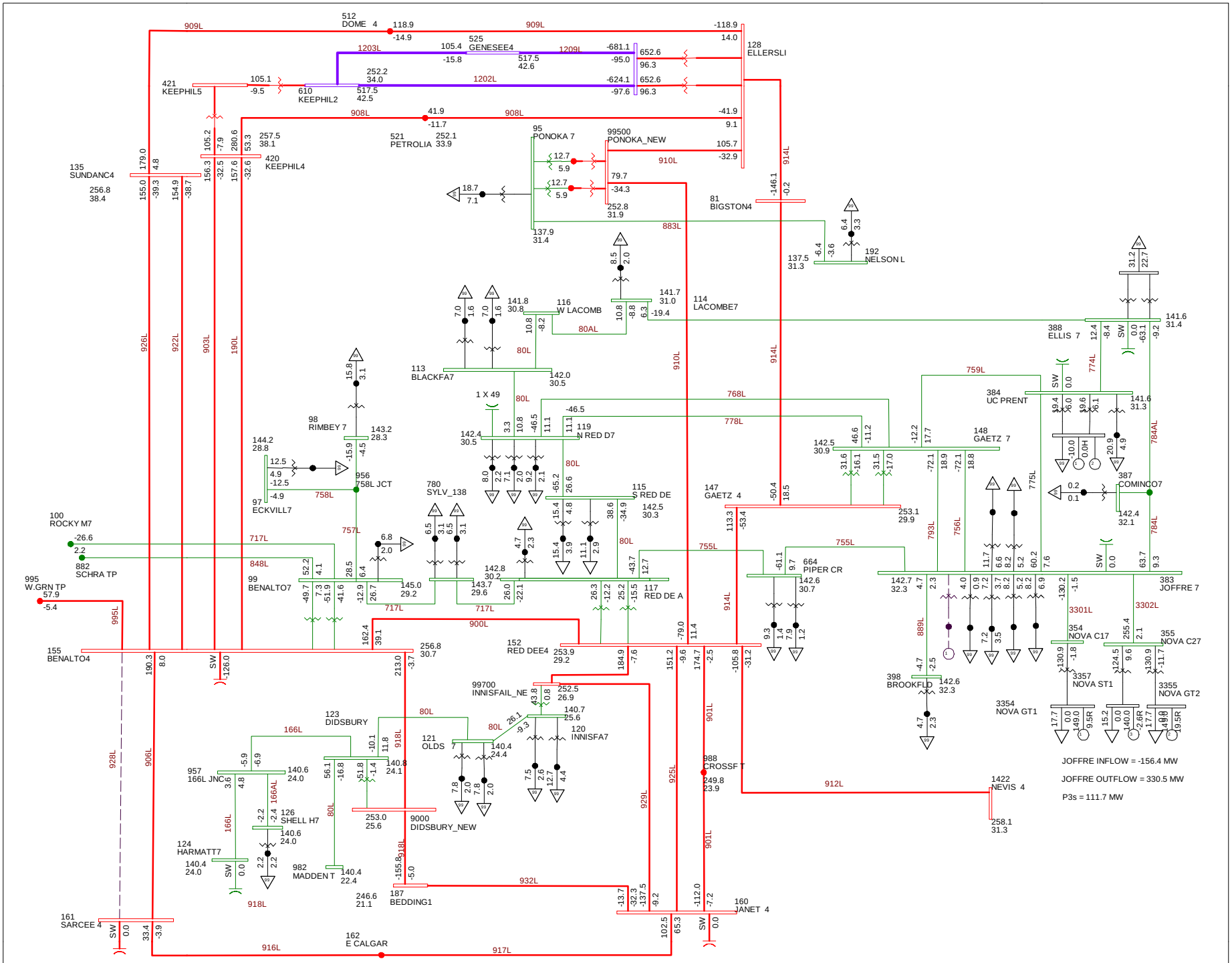
RED DEER REGION STUDY

2012 SUMMER LIGHT BASE CASE REVISION 6.5

FIG 2012-ALT2-LOAD-SL-17
240 KV 995L (AMOCO WILLESDEN GREEN 68S TO BENALTO 17S) OUTAG
TUE, MAR 01 2011 11:19

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-297



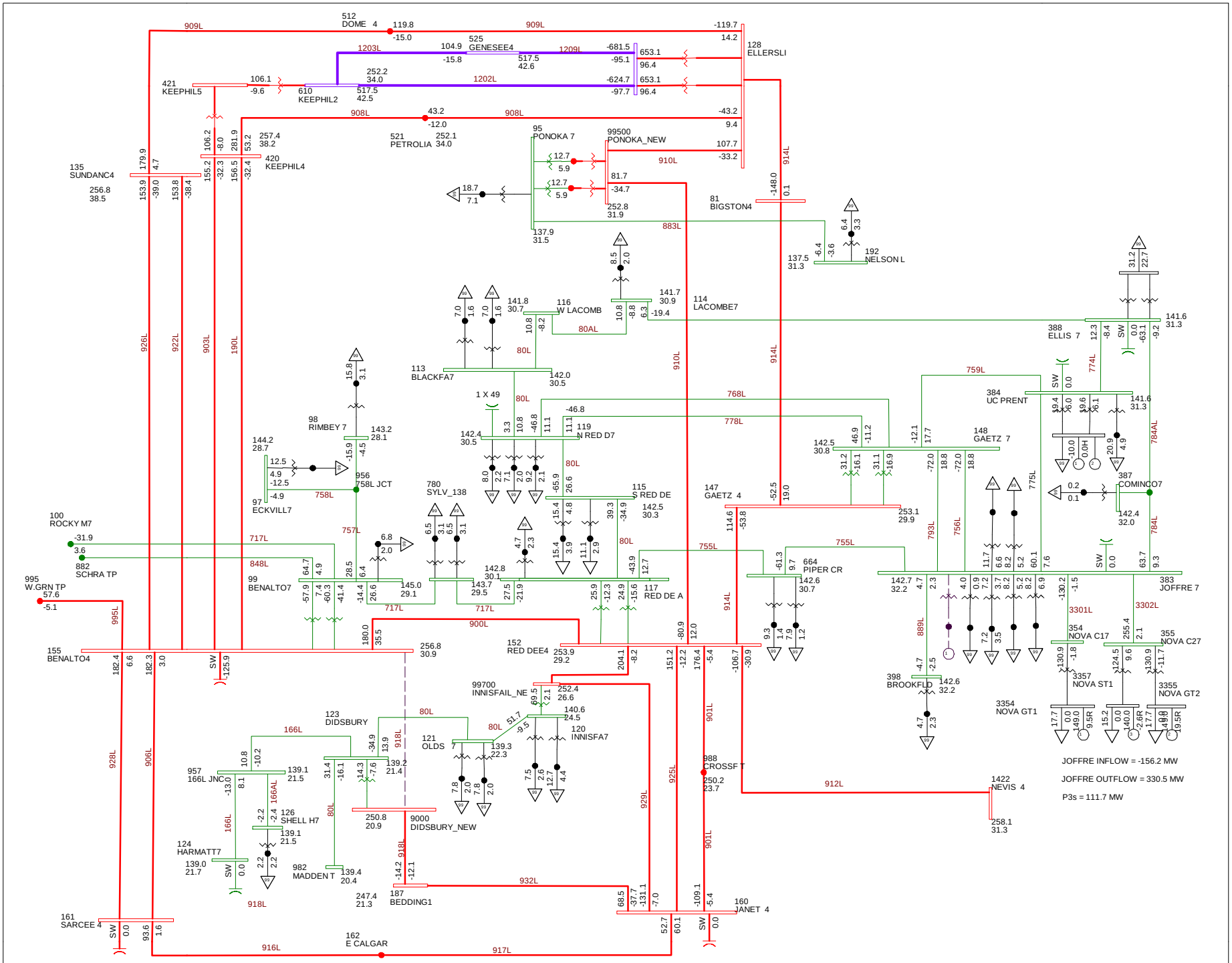
RED DEER REGION STUDY

2012 SUMMER LIGHT BASE CASE REVISION 6.5

FIG 2012-ALT2-LOAD-SL-18
240 KV 906/928L (BENALTO 17S TO SARCEE 42S) OUTAGE
TUE, MAR 01 2011 11:19

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-298



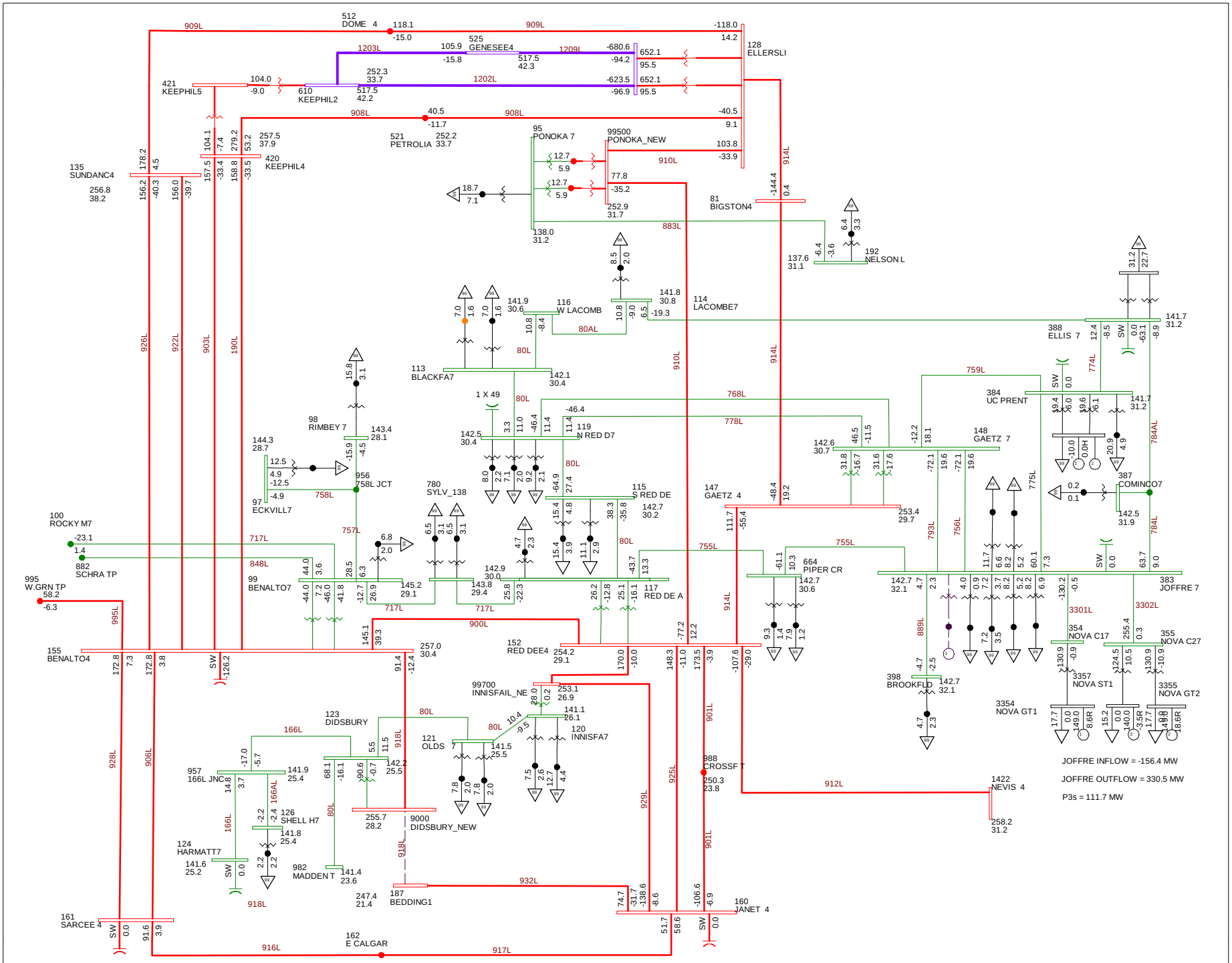
RED DEER REGION STUDY

2012 SUMMER LIGHT BASE CASE REVISION 6.5

FIG 2012-ALT2-LOAD-SL-19
240 KV 918L (BENALTO 17S TO DIDSBURY SUB. (152S)) OUTAGE
TUE, MAR 01 2011 11:19

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-299



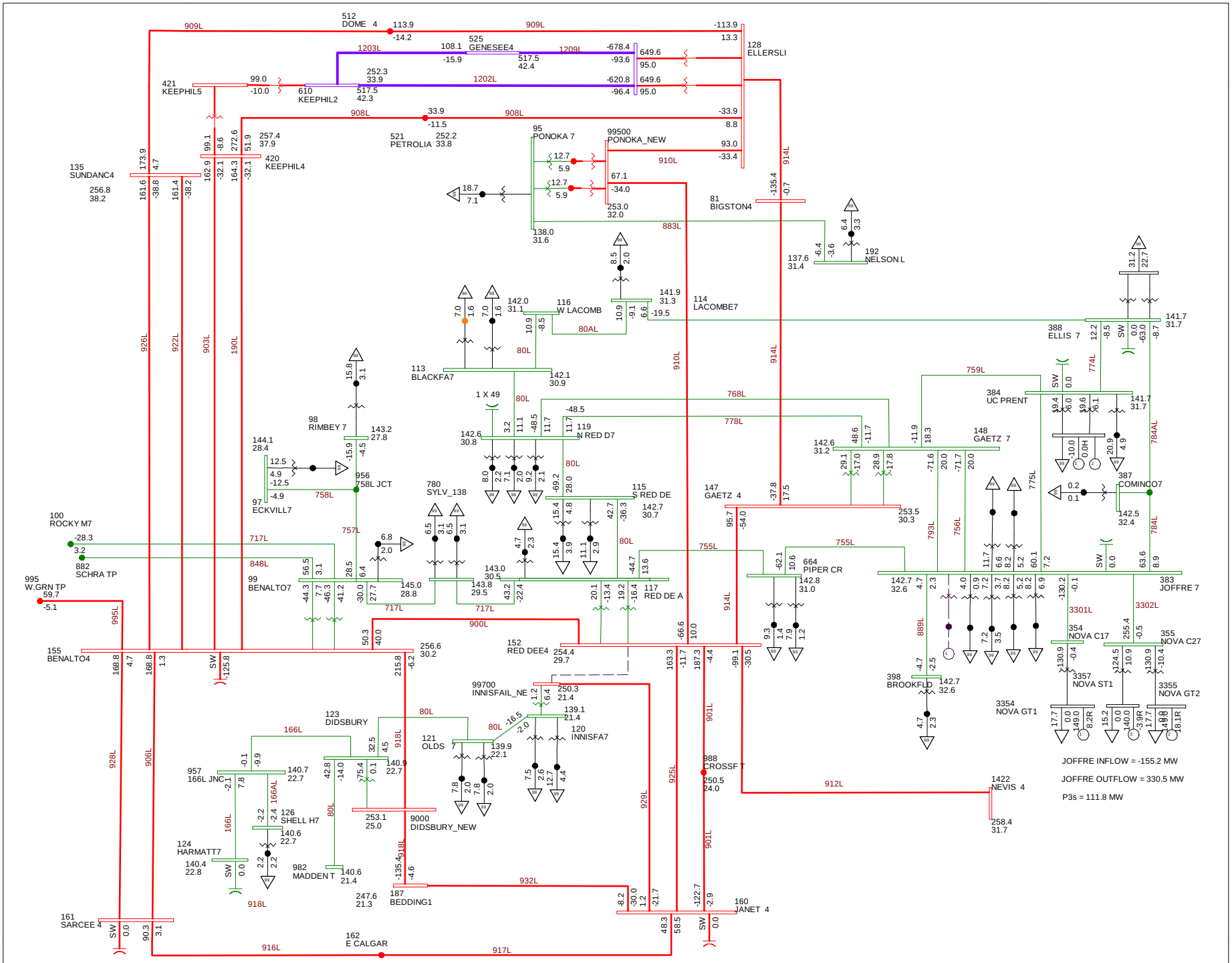
RED DEER REGION STUDY

2012 SUMMER LIGHT BASE CASE REVISION 6.5

FIG 2012-ALT2-LOAD-SL-20
240 KV 918L (DIDSBURY SUB. (152S) TO BEDDINGTON 162S) OUTAGE
TUE, MAR 01 2011 11:19

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-300



RED DEER REGION STUDY

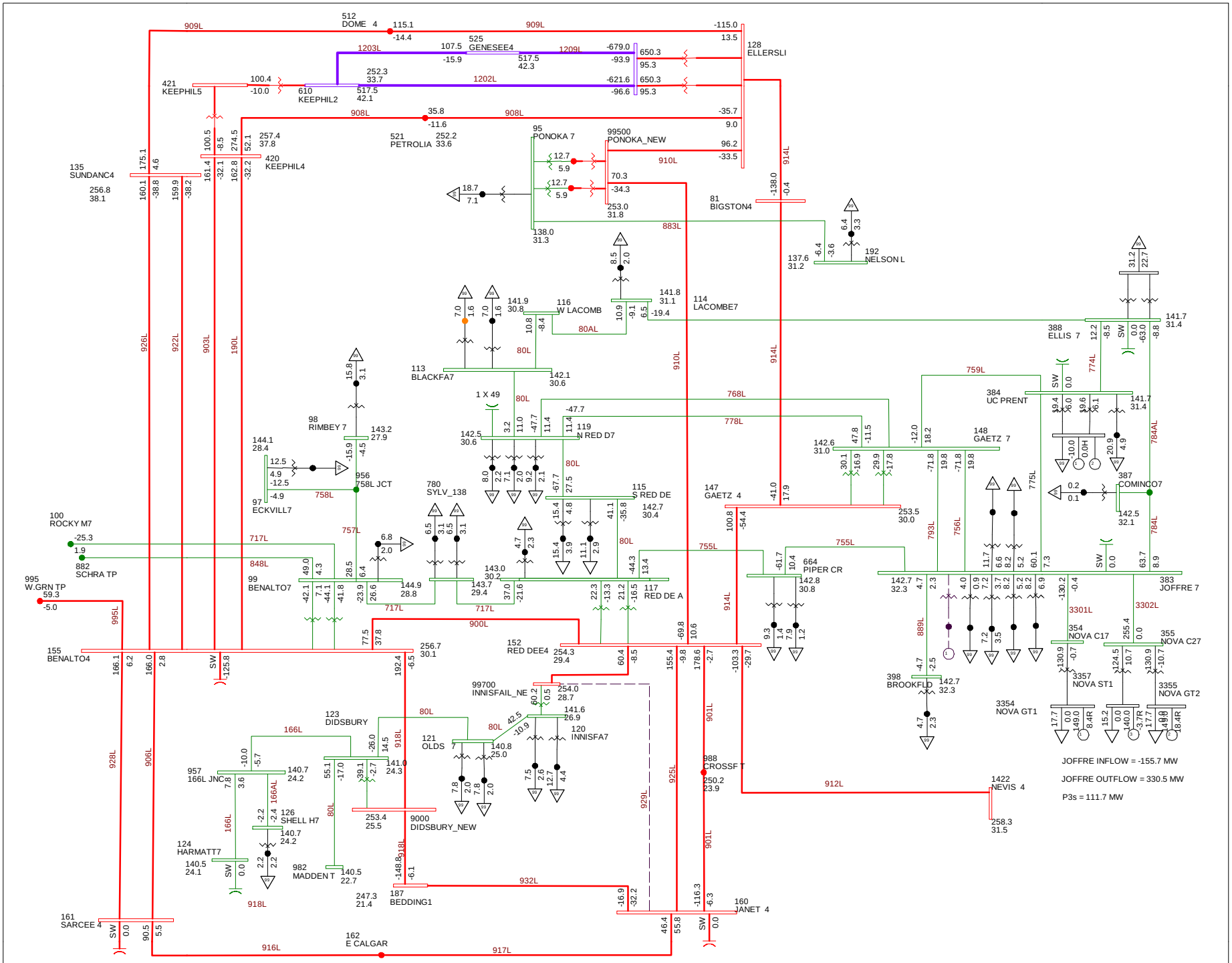
2012 SUMMER LIGHT BASE CASE REVISION 6.5

FIG 2012-ALT2-LOAD-SL-21
240 KV 929L (RED DEER 63S TO INNISFAIL 214S) OUTAGE
TUE, MAR 01 2011 11:19

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR

<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-301



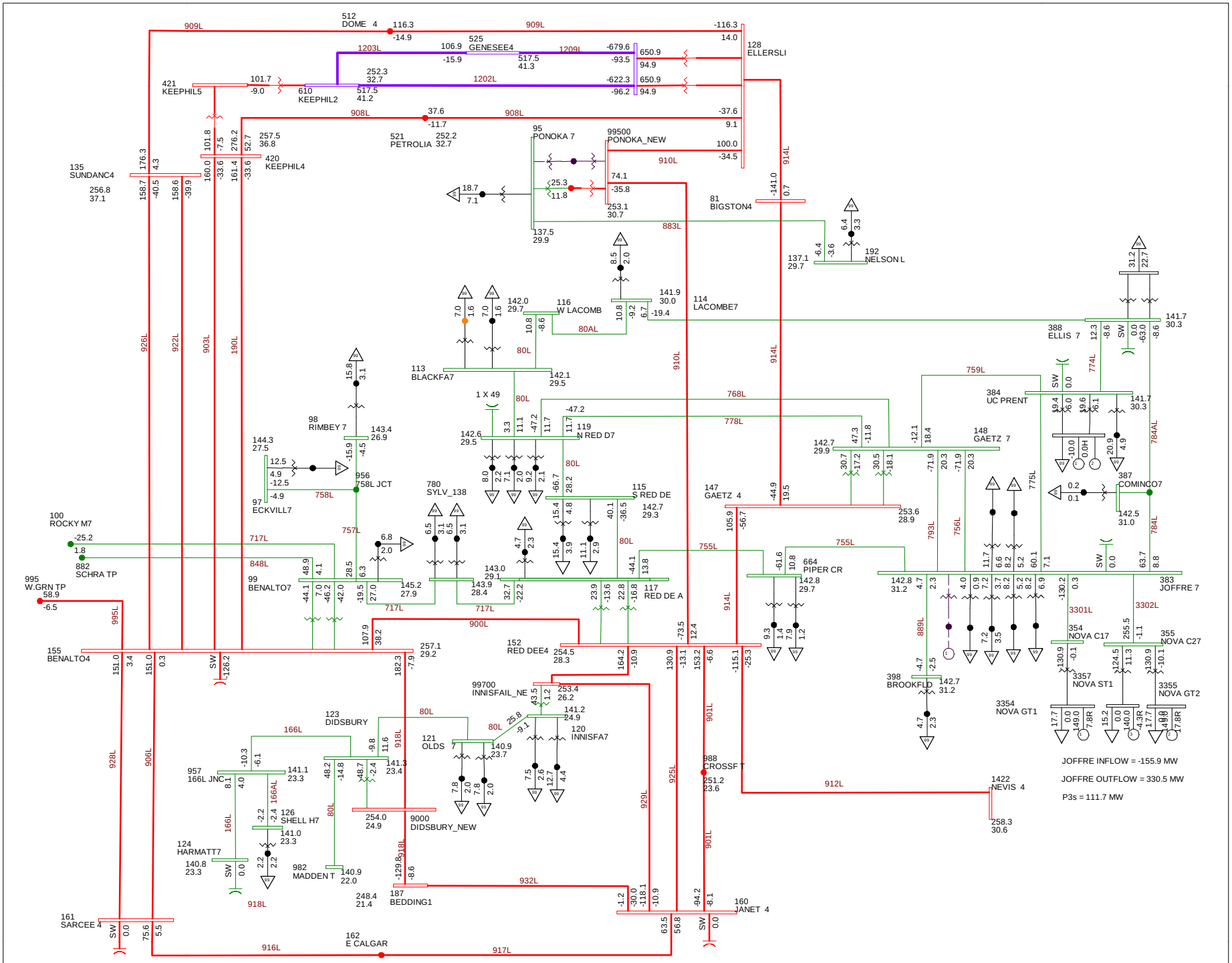
RED DEER REGION STUDY

2012 SUMMER LIGHT BASE CASE REVISION 6.5

FIG 2012-ALT2-LOAD-SL-22
240KV 929L (INNISFAIL 214S TO JANET 74S) OUTAGE
TUE, MAR 01 2011 11:19

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-302



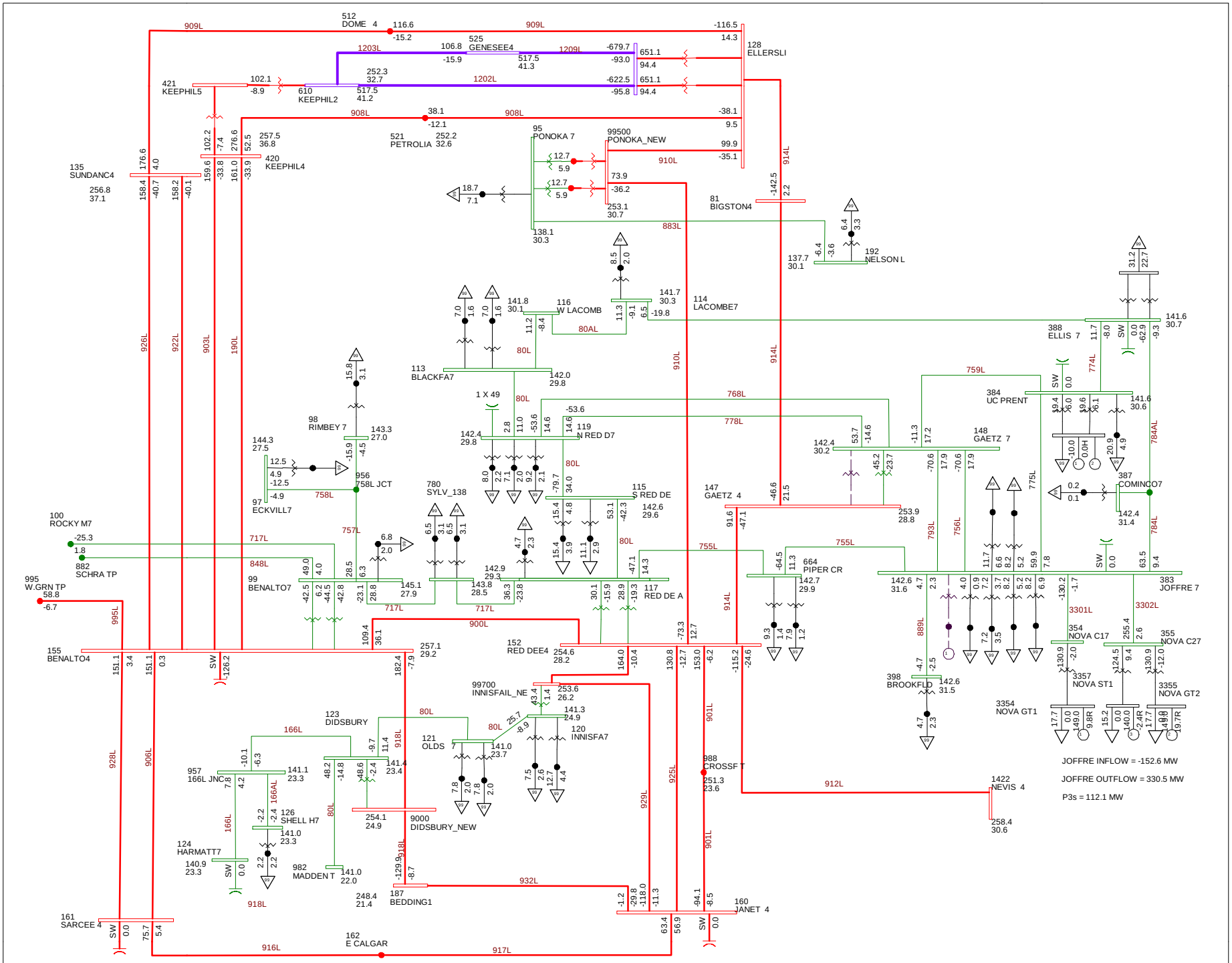
RED DEER REGION STUDY

2012 SUMMER LIGHT BASE CASE REVISION 6.5

FIG 2012-ALT2-LOAD-SL-23
240/138KV TRANSFORMER AT PONOKA 331S OUTAGE
TUE, MAR 01 2011 11:19

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-303



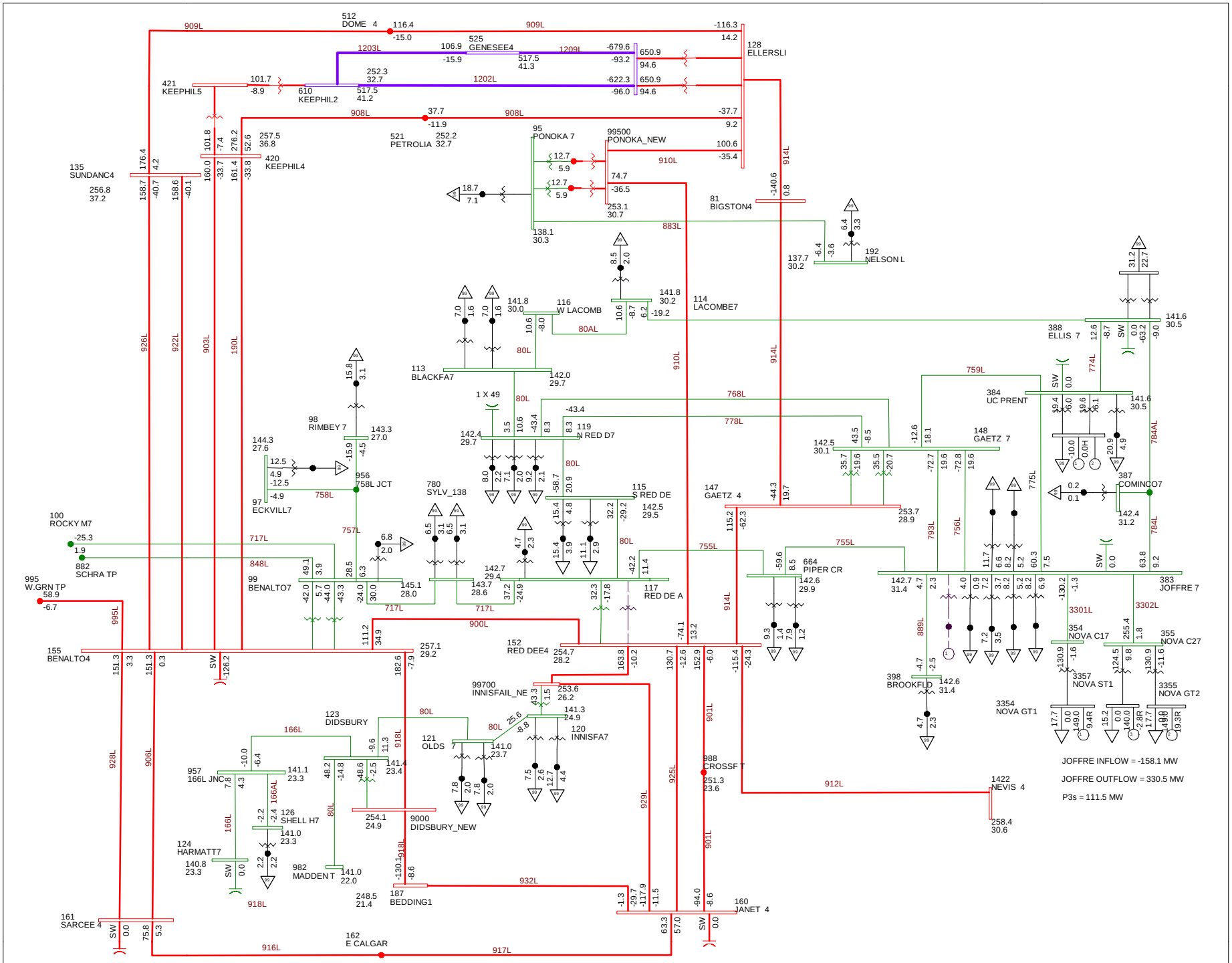
RED DEER REGION STUDY

2012 SUMMER LIGHT BASE CASE REVISION 6.5

FIG 2012-ALT2-LOAD-SL-24
240/138KV TRANSFORMER AT GAETZ 87S OUTAGE
TUE, MAR 01 2011 11:19

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-304



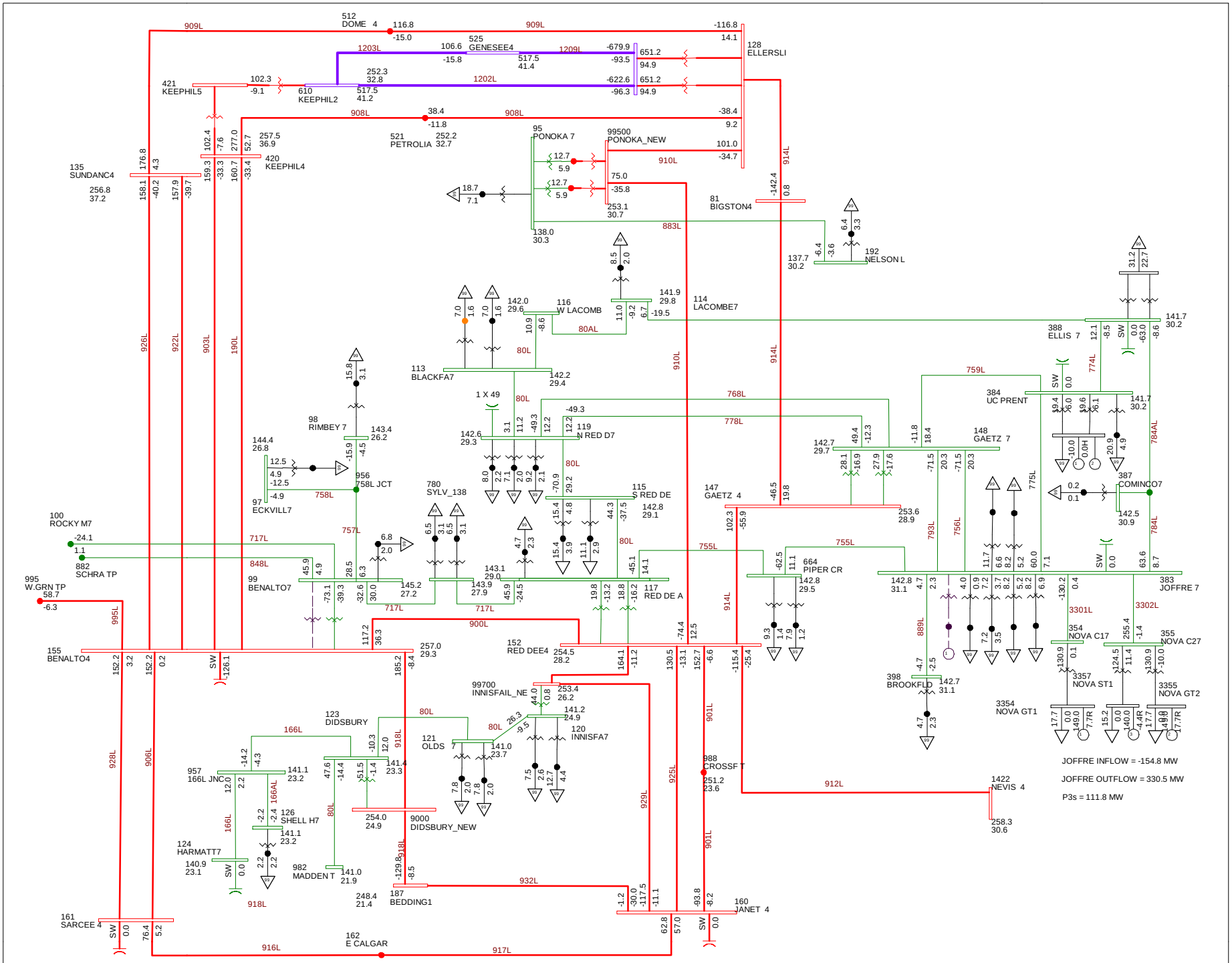
RED DEER REGION STUDY

2012 SUMMER LIGHT BASE CASE REVISION 6.5

FIG 2012-ALT2-LOAD-SL-25
240/138KV TRANSFORMER AT RED DEER 63S OUTAGE
TUE, MAR 01 2011 11:19

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-305



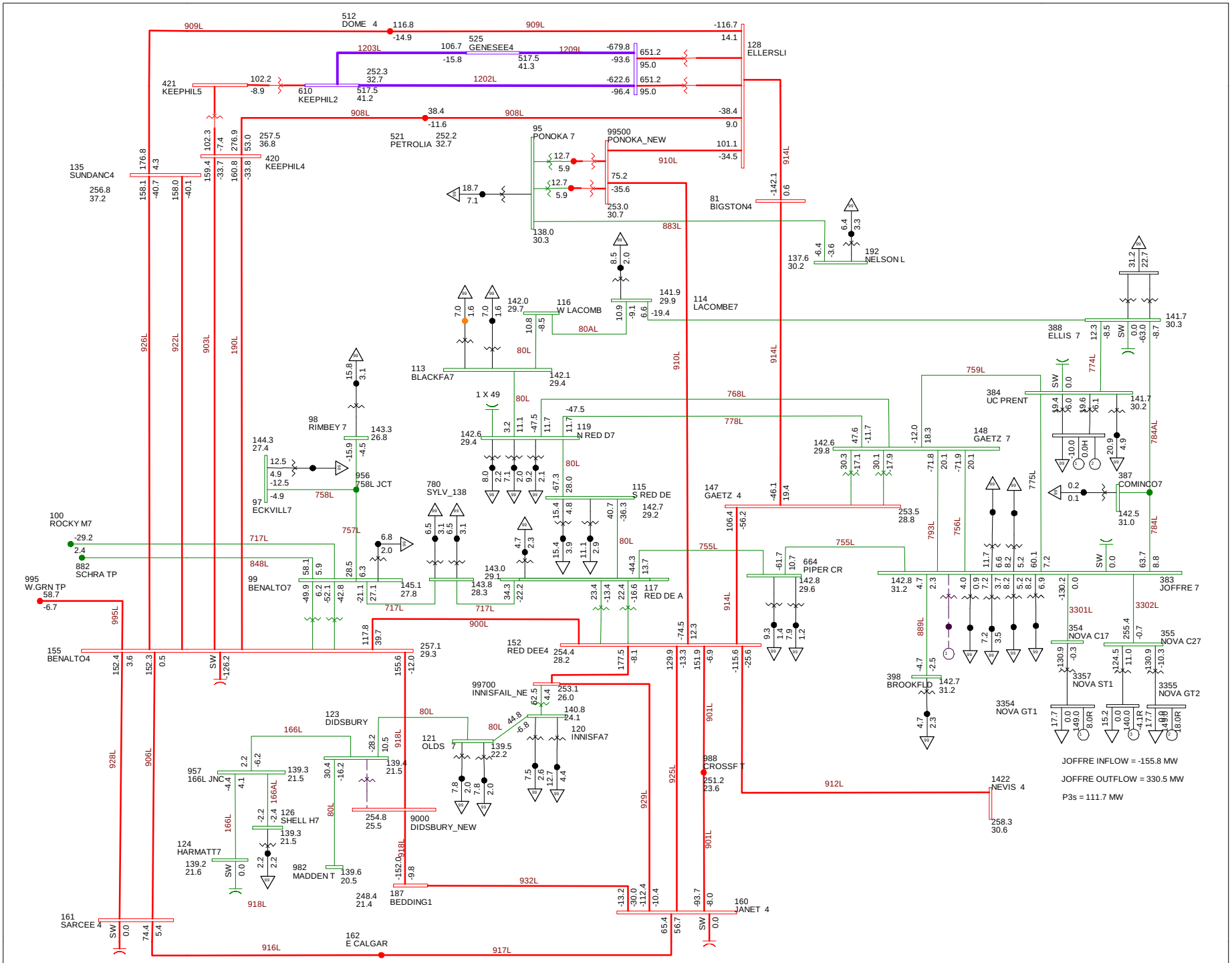
RED DEER REGION STUDY

2012 SUMMER LIGHT BASE CASE REVISION 6.5

FIG 2012-ALT2-LOAD-SL-26
240/138KV TRANSFORMER AT BENALTO 17S OUTAGE
TUE, MAR 01 2011 11:19

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-306



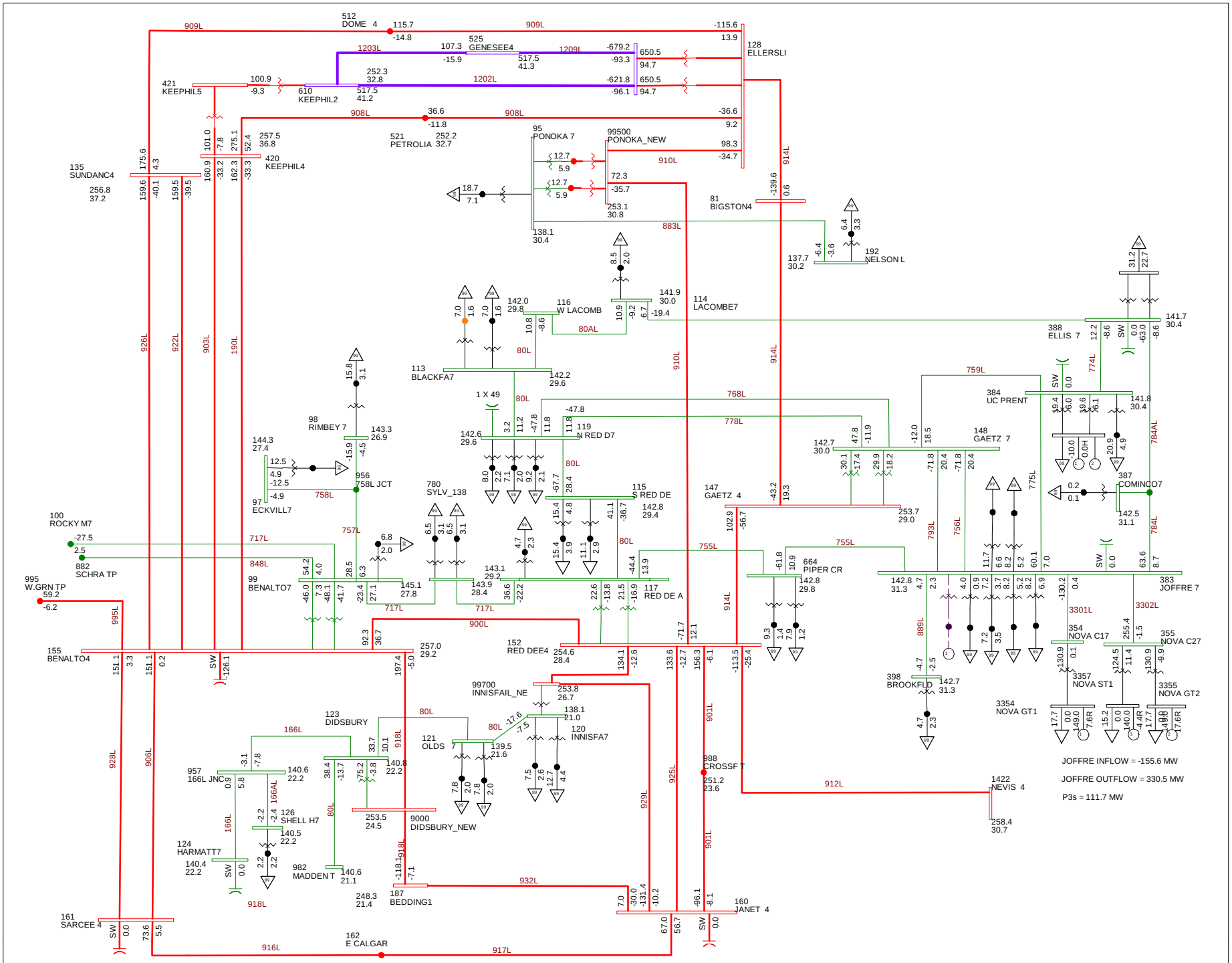
RED DEER REGION STUDY

2012 SUMMER LIGHT BASE CASE REVISION 6.5

FIG 2012-ALT2-LOAD-SL-27
240/138KV TRANSFORMER AT DIDSBURY SUB. (152S) OUTAGE
TUE, MAR 01 2011 11:19

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-307



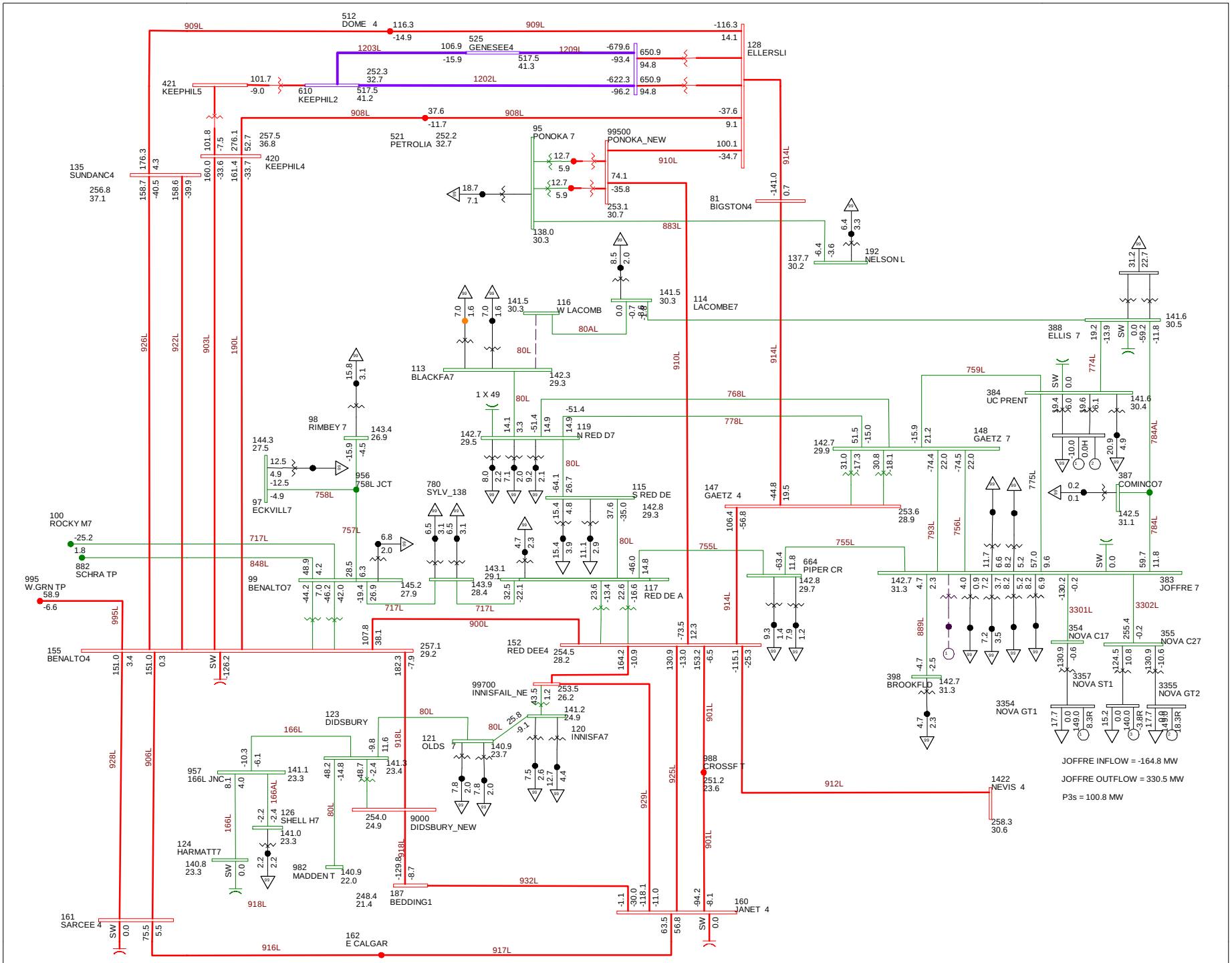
RED DEER REGION STUDY

2012 SUMMER LIGHT BASE CASE REVISION 6.5

FIG 2012-ALT2-LOAD-SL-28
240/138KV TRANSFORMER AT INNISFAIL 214S OUTAGE
TUE, MAR 01 2011 11:19

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-308



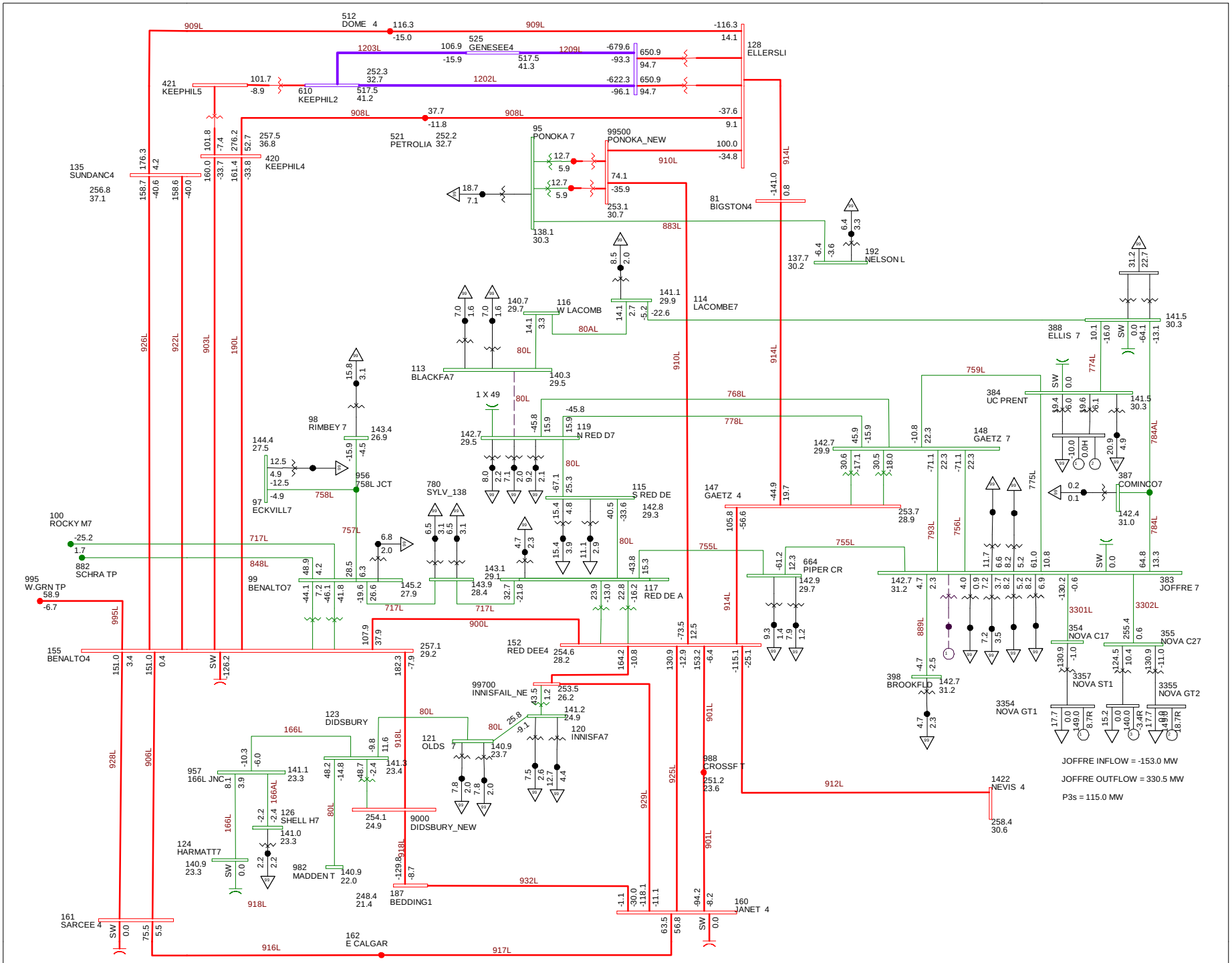
RED DEER REGION STUDY

2012 SUMMER LIGHT BASE CASE REVISION 6.5

FIG 2012-ALT2-LOAD-SL-29
138 KV 80L (W. LACOMBE 958S TO BLACKFALDS 198S) OUTAGE
TUE, MAR 01 2011 11:19

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-309



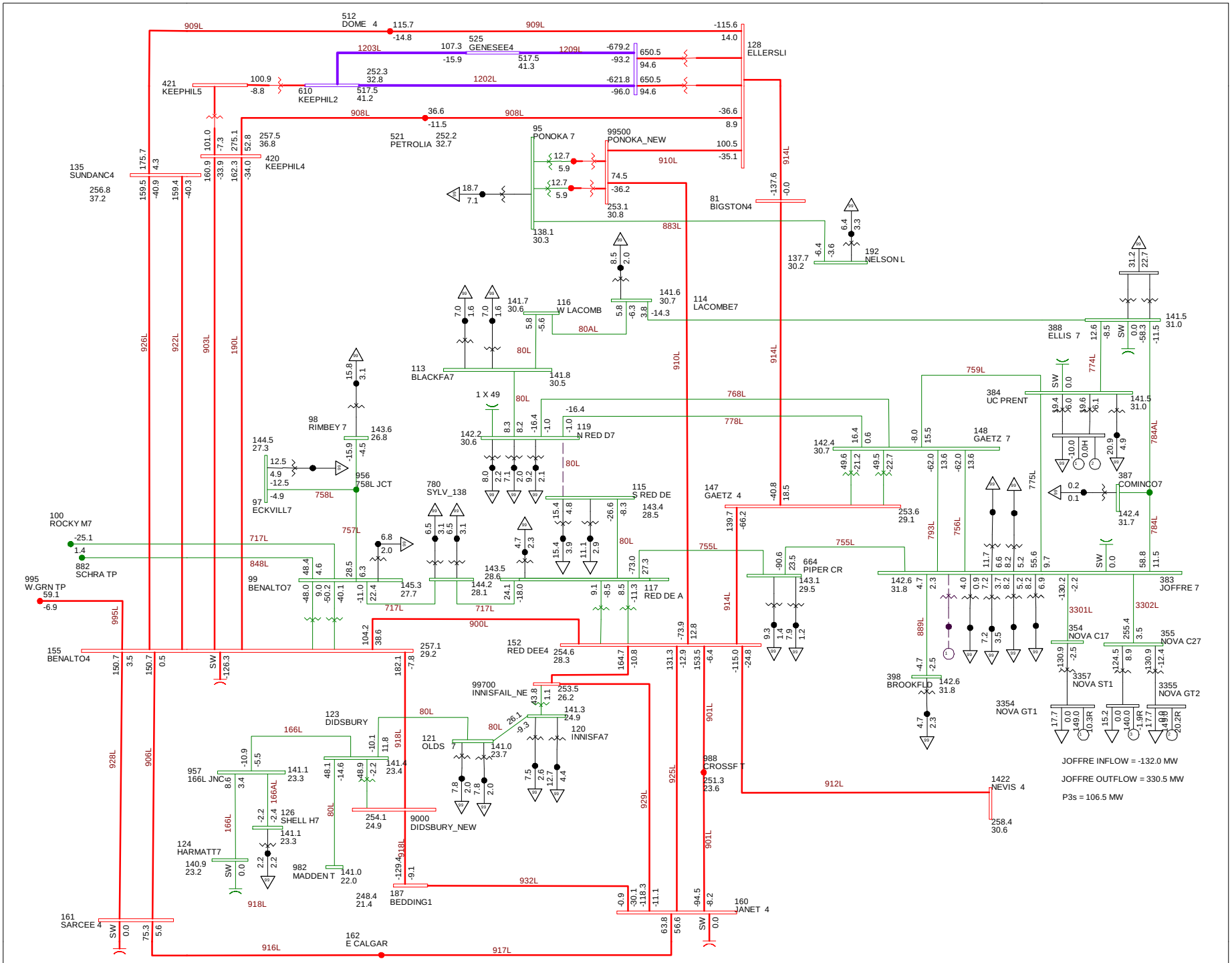
RED DEER REGION STUDY

2012 SUMMER LIGHT BASE CASE REVISION 6.5

FIG 2012-ALT2-LOAD-SL-30
138 KV 80L (BLACKFALDS 198S TO N. RED DEER 217S) OUTAGE
TUE, MAR 01 2011 11:19

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-310



RED DEER REGION STUDY

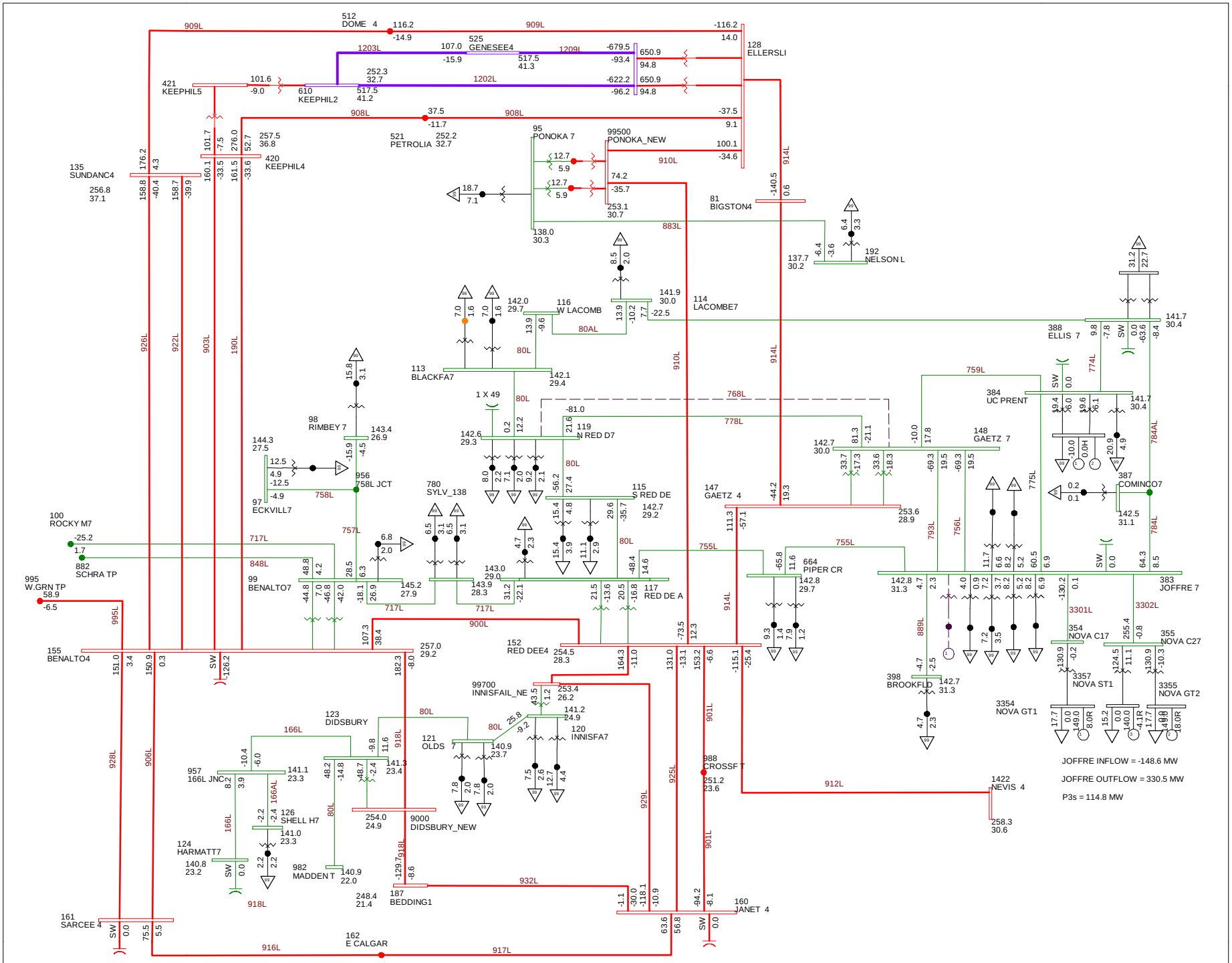
2012 SUMMER LIGHT BASE CASE REVISION 6.5

FIG 2012-ALT2-LOAD-SL-31
138 KV 80L (N. RED DEER 217S TO S. RED DEER 194S) OUTAGE
TUE, MAR 01 2011 11:19

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR

<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-311



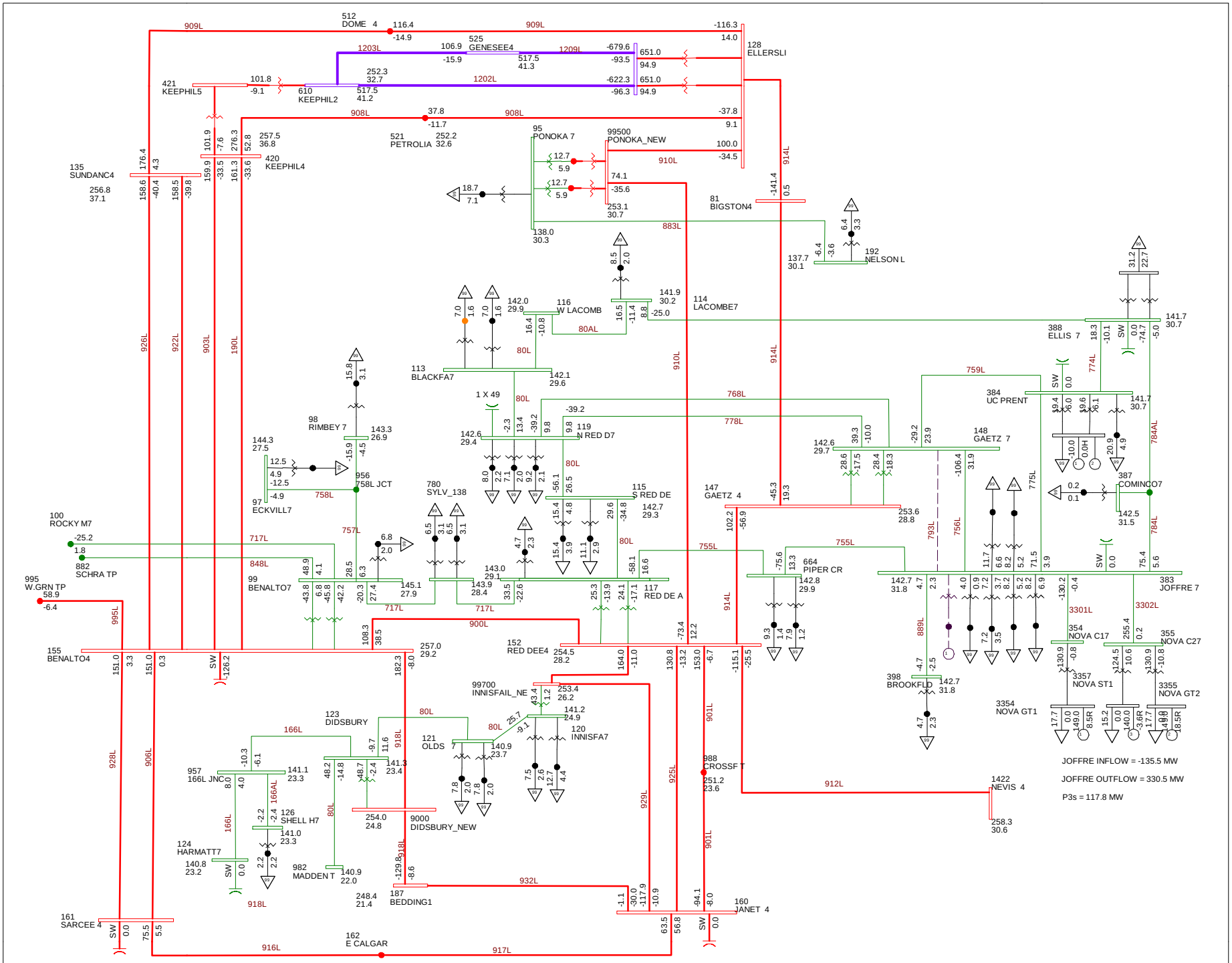
RED DEER REGION STUDY

2012 SUMMER LIGHT BASE CASE REVISION 6.5

FIG 2012-ALT2-LOAD-SL-32
138 KV 768/778L (N. RED DEER 217S TO GAETZ 87S) OUTAGE
TUE, MAR 01 2011 11:19

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-312



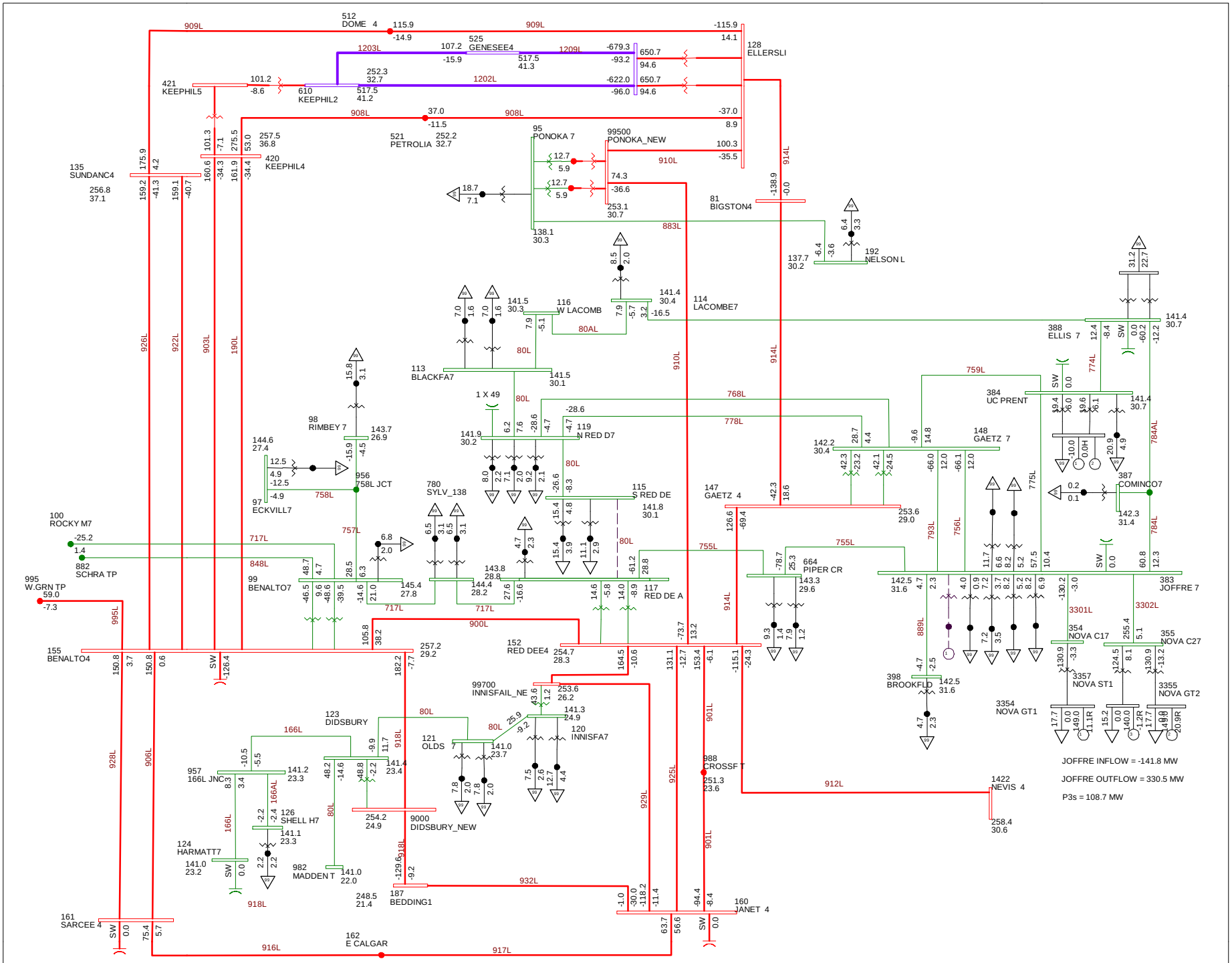
RED DEER REGION STUDY

2012 SUMMER LIGHT BASE CASE REVISION 6.5

FIG 2012-ALT2-LOAD-SL-33
138 KV 793/756L (GAETZ 87S TO JOFFRE 535S) OUTAGE
TUE, MAR 01 2011 11:19

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-313



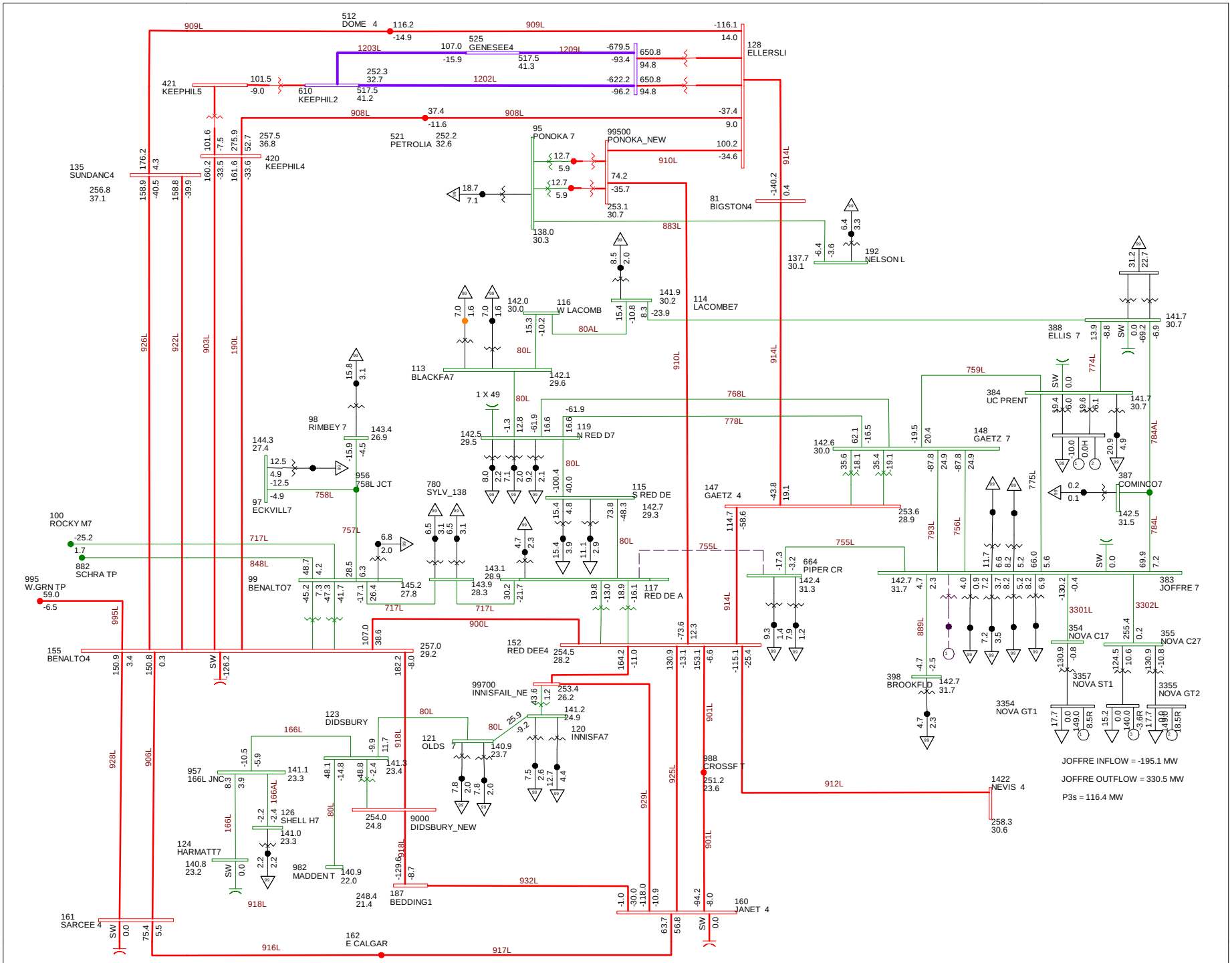
RED DEER REGION STUDY

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FIG 2012-ALT2-LOAD-SL-34
138 KV 80L (S. RED DEER 194S TO RED DEER 63S) OUTAGE
TUE, MAR 01 2011 11:19

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-314



RED DEER REGION STUDY

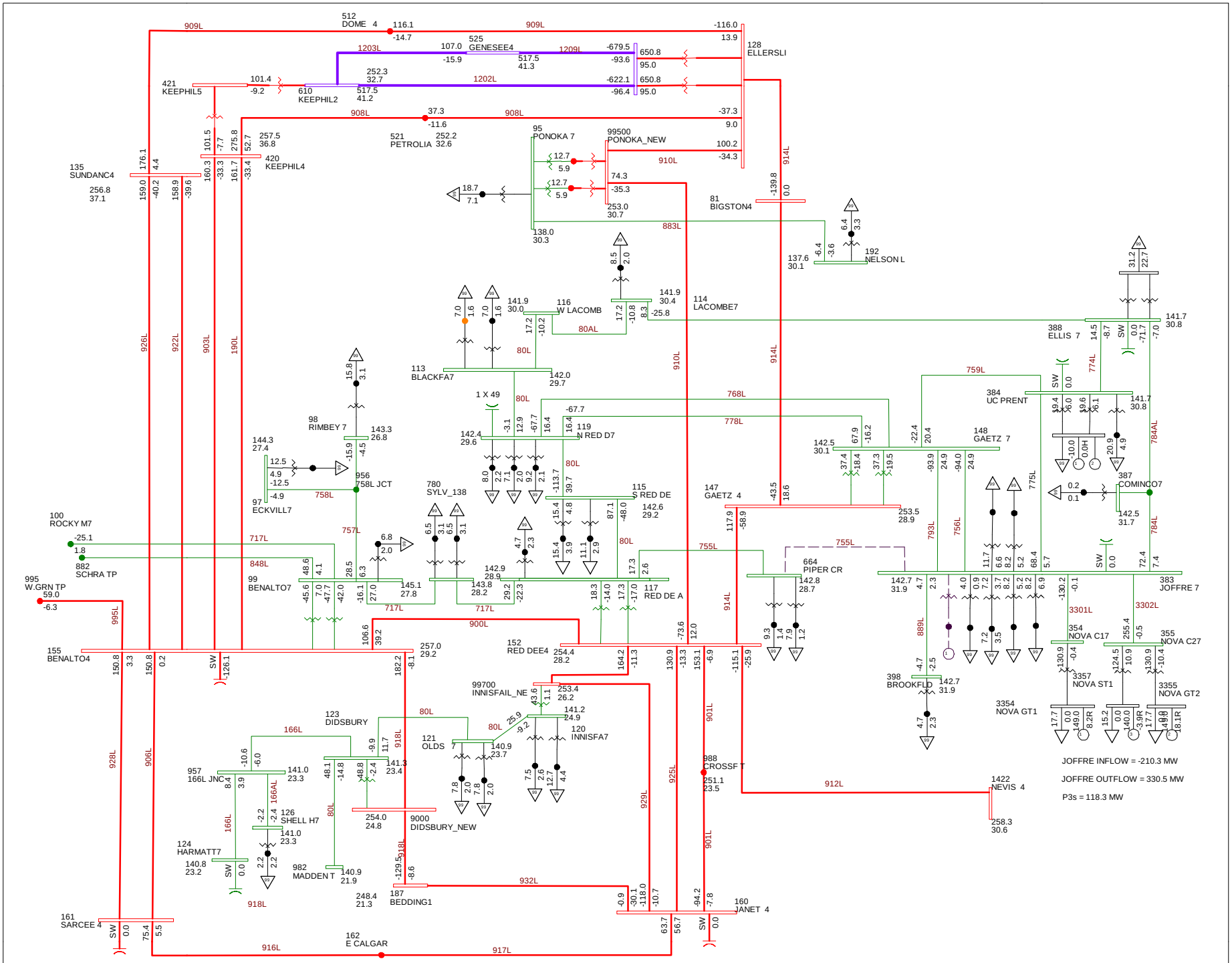
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FIG 2012-ALT2-LOAD-SL-35
138 KV 755L (RED DEER 63S TO PIPER CREEK 247S) OUTAGE
TUE, MAR 01 2011 11:19

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR

<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-315



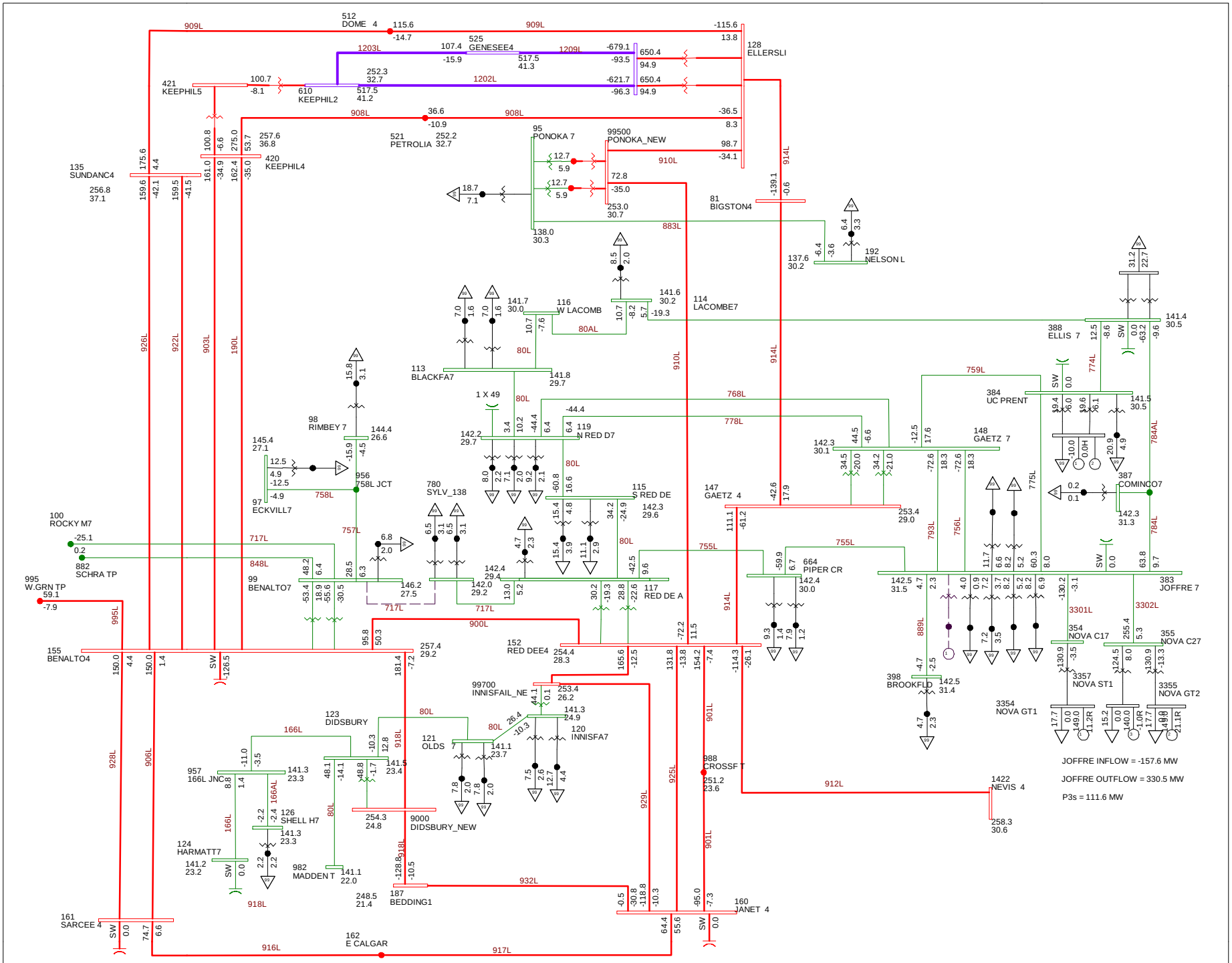
RED DEER REGION STUDY

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FIG 2012-ALT2-LOAD-SL-36
138 KV 755L (JOFFRE 535S TO PIPER CREEK 247S) OUTAGE
TUE, MAR 01 2011 11:19

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-316



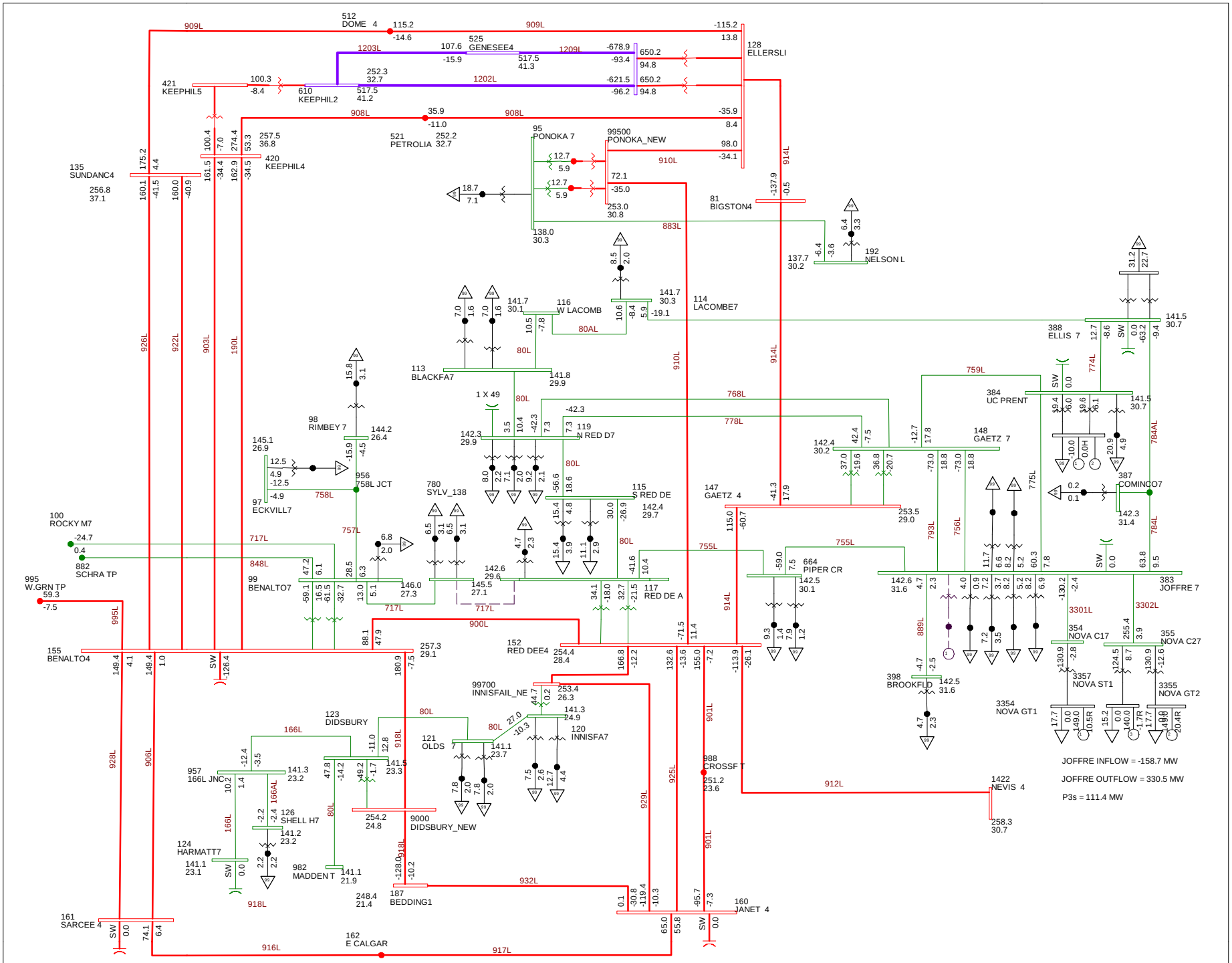
RED DEER REGION STUDY

2012 SUMMER LIGHT BASE CASE REVISION 6.5

FIG 2012-ALT2-LOAD-SL-37
138 KV 717L (BENALTO 17S TO SYLVAN LAKE 580S) OUTAGE
TUE, MAR 01 2011 11:19

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-317



RED DEER REGION STUDY

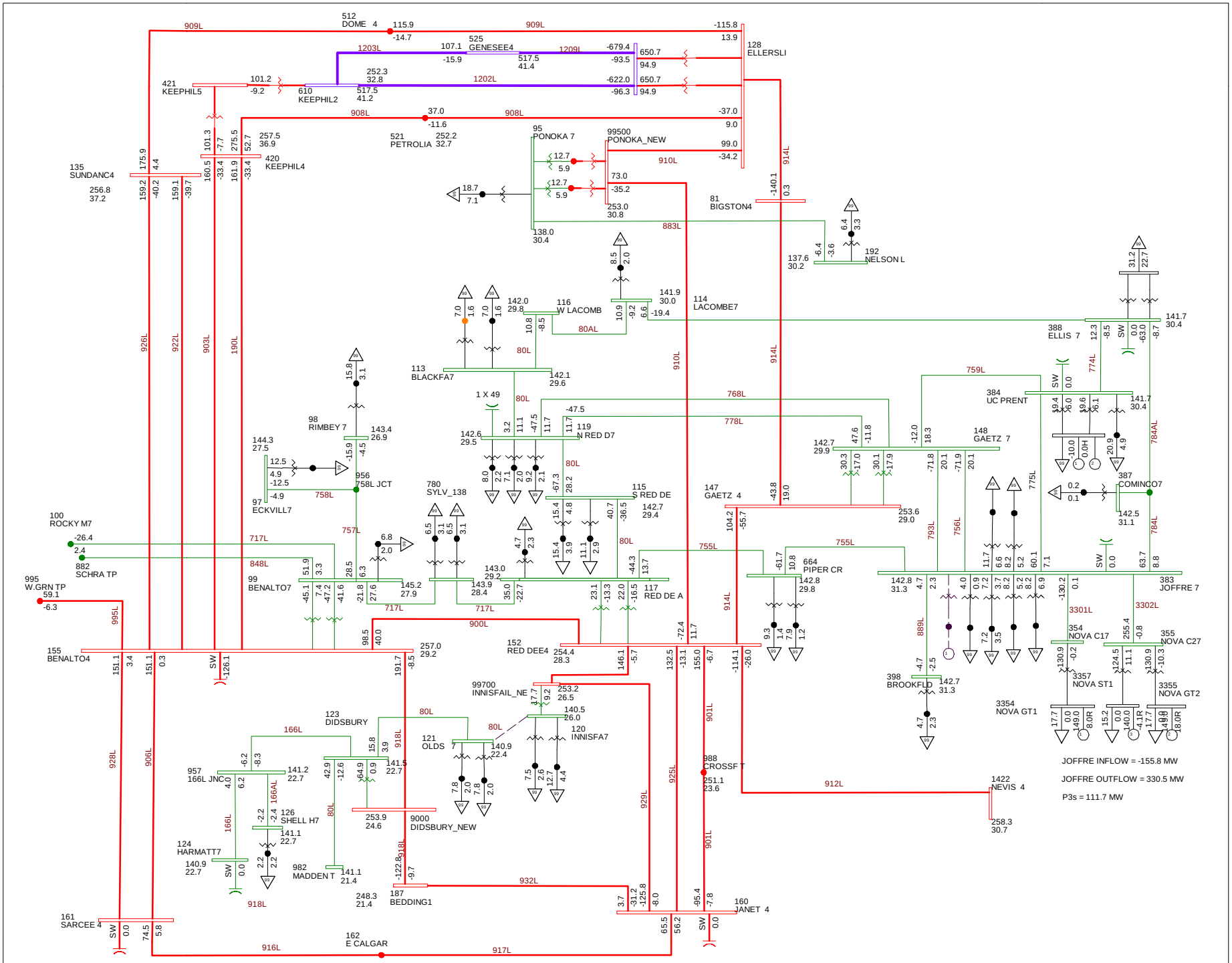
2012 SUMMER LIGHT BASE CASE REVISION 6.5

FIG 2012-ALT2-LOAD-SL-38
138 KV 717L (RED DEER 63S TO SYLVAN LAKE 580S) OUTAGE
TUE, MAR 01 2011 11:19

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR

<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-318



RED DEER REGION STUDY

2012 SUMMER LIGHT BASE CASE REVISION 6.5

FIG 2012-ALT2-LOAD-SL-39
138 KV 80L (INNISFAIL 214S TO OLDS 55S) OUTAGE
TUE, MAR 01 2011 11:19

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
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<=34.500 <=240.000 <=500.000

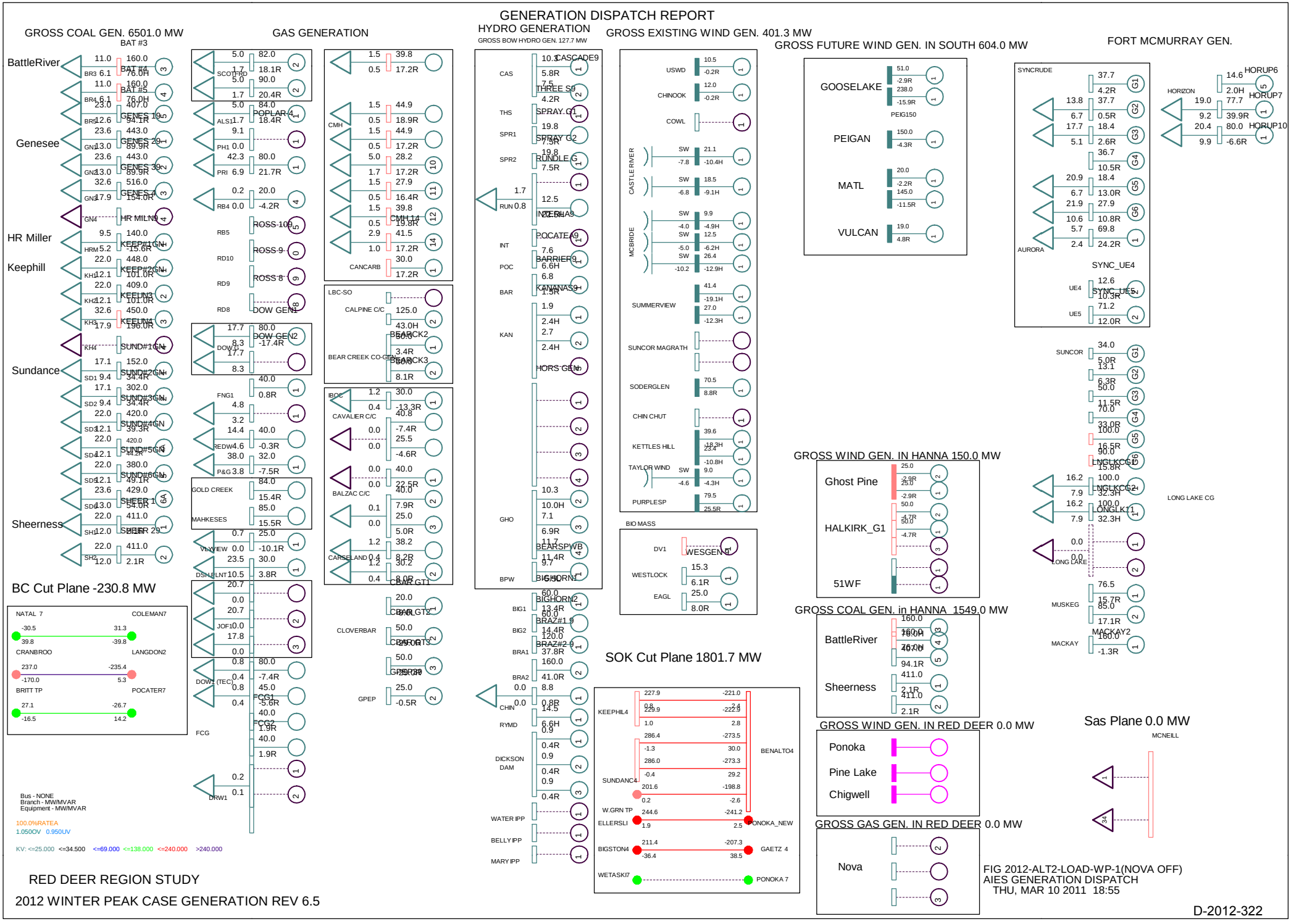
D-2012-319

Table D-2012-5: Summary of 2012 Load Adequacy Power Flow Analysis - Alternative 2 (WP with Nova OFF)

Figure No.	Contingency	Overloaded Element	Percent Overload	Other System Performance Concerns
Winter Peak				
Fig 2012-Alt2-Load-WP-1(Nova Off)	AIES Generation Dispatch	N/A	N/A	N/A
Fig 2012-Alt2-Load-WP-2(Nova Off)	All Elements in Service	None	N/A	None
Fig 2012-Alt2-Load-WP-3(Nova Off)	500kV 1202L (Ellerslie 89S to Keephills 320P)	None	N/A	None
Fig 2012-Alt2-Load-WP-4(Nova Off)	500kV 1209L (Ellerslie 89S to Genesee E330P)	None	N/A	None
Fig 2012-Alt2-Load-WP-5(Nova Off)	500kV 1203L (Genesee E330P to Keephills 320P)	None	N/A	None
Fig 2012-Alt2-Load-WP-6(Nova Off)	240kV 914L (Ellerslie 89S to Bigstone 86S)	None	N/A	None
Fig 2012-Alt2-Load-WP-7(Nova Off)	240kV 914L (Bigstone 86S to Gaetz 87S)	None	N/A	None
Fig 2012-Alt2-Load-WP-8(Nova Off)	240kV 910L (Ellerslie 89S to Ponoka 331S)	None	N/A	None
Fig 2012-Alt2-Load-WP-9(Nova Off)	240kV 910L (Ponoka 331S to Red Deer 63S)	None	N/A	None
Fig 2012-Alt2-Load-WP-10(Nova Off)	240kV 914L (Gaetz 87S to Red Deer 63S)	None	N/A	None
Fig 2012-Alt2-Load-WP-11(Nova Off)	240kV 900L (Red Deer 63S to Benalto 17S)	None	N/A	None
Fig 2012-Alt2-Load-WP-12(Nova Off)	240kV 925L (Red Deer 63S to Janet 74S)	None	N/A	None
Fig 2012-Alt2-Load-WP-13(Nova Off)	240kV 901L (Red Deer 63S to Crossfield 64S)	None	N/A	None
Fig 2012-Alt2-Load-WP-14(Nova Off)	240kV 912L (Red Deer 63S to Nevis 766S)	None	N/A	None
Fig 2012-Alt2-Load-WP-15(Nova Off)	240 kV 926/922L (Sundance 310P to Benalto 17S)	None	N/A	None
Fig 2012-Alt2-Load-WP-16(Nova Off)	240kV 190/903L (Keephills 320P to Benalto 17S)	None	N/A	None
Fig 2012-Alt2-Load-WP-17(Nova Off)	240 kV 995L (Amoco Willesden Green 68S to Benalto 17S)	None	N/A	None
Fig 2012-Alt2-Load-WP-18(Nova Off)	240 kV 906/928L (Benalto 17S to Sarcee 42S)	None	N/A	None
Fig 2012-Alt2-Load-WP-19(Nova Off)	240 kV 918L (Benalto 17S to Didsbury Sub. (152S)	None	N/A	None
Fig 2012-Alt2-Load-WP-20(Nova Off)	240 kV 918L (Didsbury Sub. (152S) to Beddington 162S)	None	N/A	None
Fig 2012-Alt2-Load-WP-21(Nova Off)	240 kV 929L (Red Deer 63S to Innisfail 214S)	None	N/A	None
Fig 2012-Alt2-Load-WP-22(Nova Off)	240 kV 929L (Innisfail 214S to Janet 74S)	None	N/A	None
Fig 2012-Alt2-Load-WP-23(Nova Off)	240/138kV Transformer at Ponoka 313S	None	N/A	None
Fig 2012-Alt2-Load-WP-24(Nova Off)	240/138kV Transformer at Gaetz 87S	None	N/A	None
Fig 2012-Alt2-Load-WP-25(Nova Off)	240/138kV Transformer at Red Deer 63S	None	N/A	None

Figure No.	Contingency	Overloaded Element	Percent Overload	Other System Performance Concerns
Fig 2012-Alt2-Load-WP-26(Nova Off)	240/138kV Transformer at Benalto 17S	None	N/A	None
Fig 2012-Alt2-Load-WP-27(Nova Off)	240/138kV Transformer at Didsbury Sub. (152S)	None	N/A	None
Fig 2012-Alt2-Load-WP-28(Nova Off)	240/138kV Transformer at Innisfail 214S	None	N/A	None
Fig 2012-Alt2-Load-WP-29(Nova Off)	138 kV 80L (W. Lacombe 958S to Blackfalds 198S)	None	N/A	None
Fig 2012-Alt2-Load-WP-30(Nova Off)	138 kV 80L (Blackfalds 198S to N. Red Deer 217S)	None	N/A	None
Fig 2012-Alt2-Load-WP-31(Nova Off)	138 kV 80L (N. Red Deer 217S to S. Red Deer 194S)	None	N/A	None
Fig 2012-Alt2-Load-WP-32(Nova Off)	138 kV 768L (N. Red Deer 217S to Gaetz 87S)	None	N/A	None
Fig 2012-Alt2-Load-WP-33(Nova Off)	138 kV 793/756L (Gaetz 87S to Joffre 535S)	None	N/A	None
Fig 2012-Alt2-Load-WP-34(Nova Off)	138 kV 80L (S. Red Deer 194S to Red Deer 63S)	None	N/A	None
Fig 2012-Alt2-Load-WP-35(Nova Off)	138 kV 755L (Red Deer 63S to Piper Creek 247S)	None	N/A	None
Fig 2012-Alt2-Load-WP-36(Nova Off)	138 kV 755L (Joffre 535S to Piper Creek 247S)	None	N/A	None
Fig 2012-Alt2-Load-WP-37(Nova Off)	138 kV 717L (Benalto 17S to Sylvan Lake 580S)	None	N/A	None
Fig 2012-Alt2-Load-WP-38(Nova Off)	138 kV 717L (Red Deer 63S to Sylvan Lake 580S)	None	N/A	None
Fig 2012-Alt2-Load-WP-39(Nova Off)	138 kV 80L (Innisfail 214S To Olds 55S)	None	N/A	None

GENERATION DISPATCH REPORT

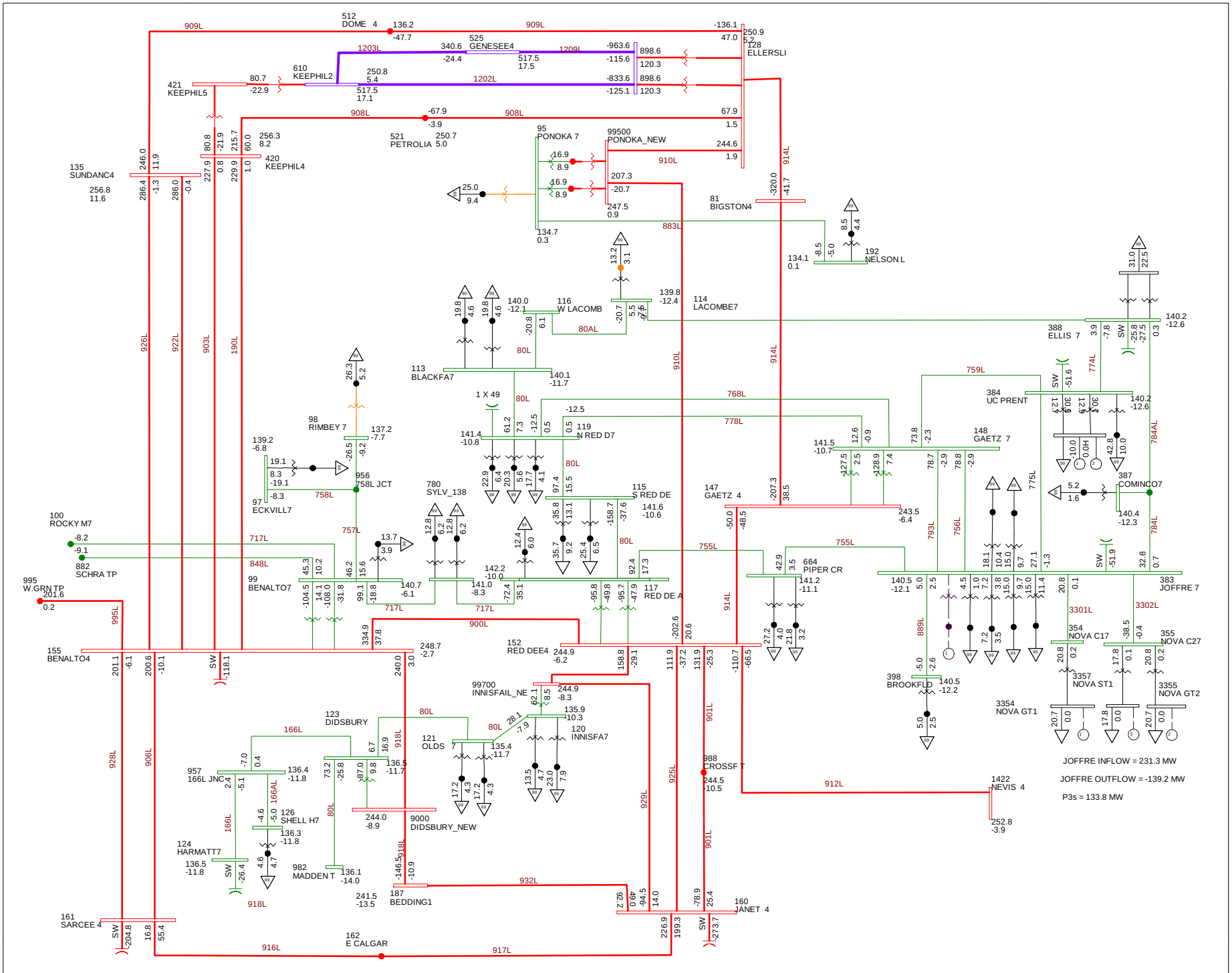


RED DEER REGION STUDY

2012 WINTER PEAK CASE GENERATION REV 6.5

FIG 2012-ALT2-LOAD-WP-1(NOVA OFF)
AIES GENERATION DISPATCH
THU, MAR 10 2011 18:55

D-2012-322

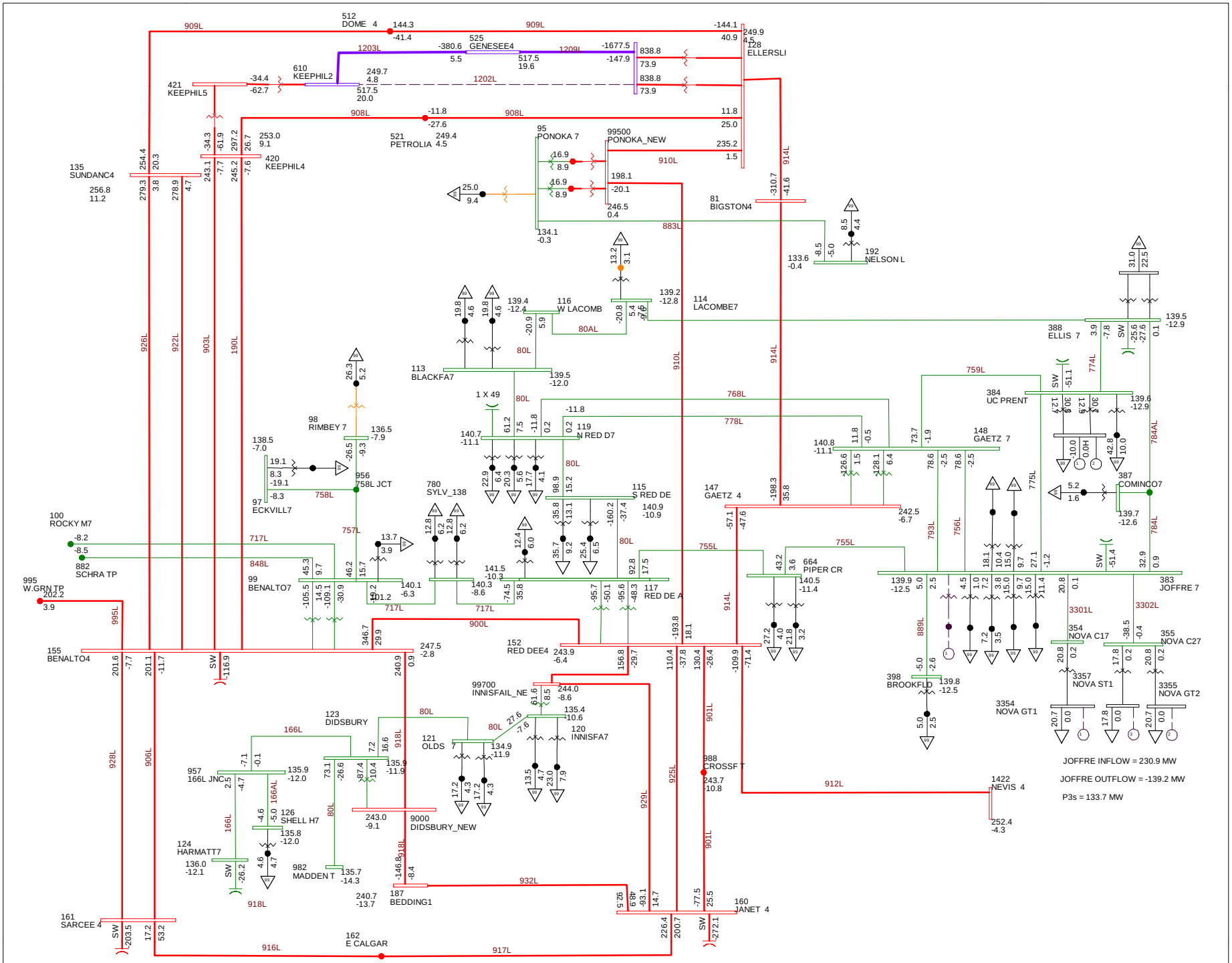


RED DEER REGION STUDY
2012 WINTER PEAK BASE CASE REVISION 6.5

FIG 2012-ALT2-LOAD-WP-2(NOVA OFF)
ALL ELEMENTS IN SERVICE
TUE, MAR 01 2011 16:33

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-323

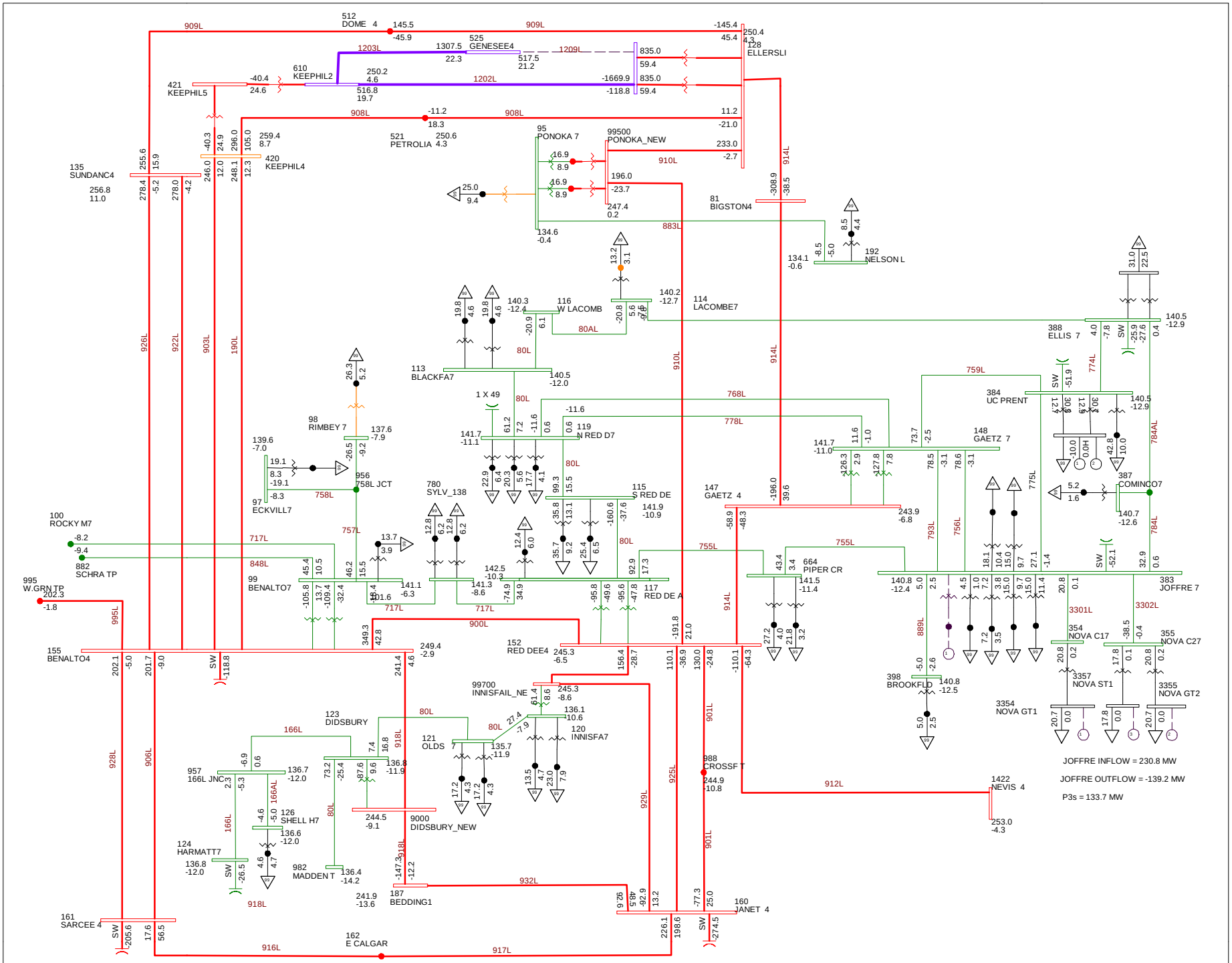


RED DEER REGION STUDY
2012 WINTER PEAK BASE CASE REVISION 6.5

FIG 2012-ALT2-LOAD-WP-3(NOVA OFF)
500KV 1202L (ELLERSLIE 89S TO KEEPHILLS 320P) OUTAGE
TUE, MAR 01 2011 16:33

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-324

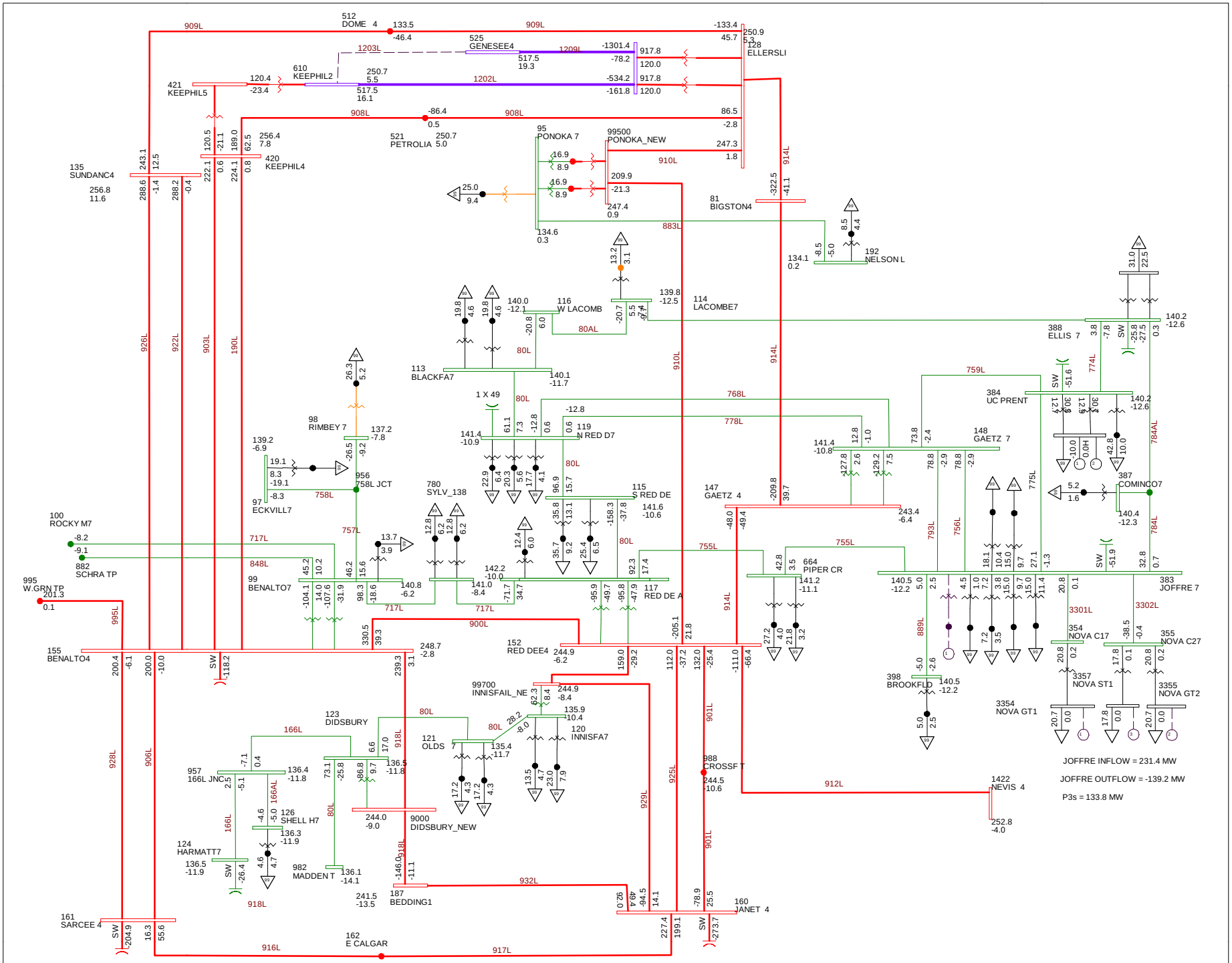


RED DEER REGION STUDY
2012 WINTER PEAK BASE CASE REVISION 6.5

FIG 2012-ALT2-LOAD-WP-4(NOVA OFF)
500KV 1209L (ELLERSLIE 89S TO GENESEE E330P) OUTAGE
TUE, MAR 01 2011 16:33

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-325



RED DEER REGION STUDY

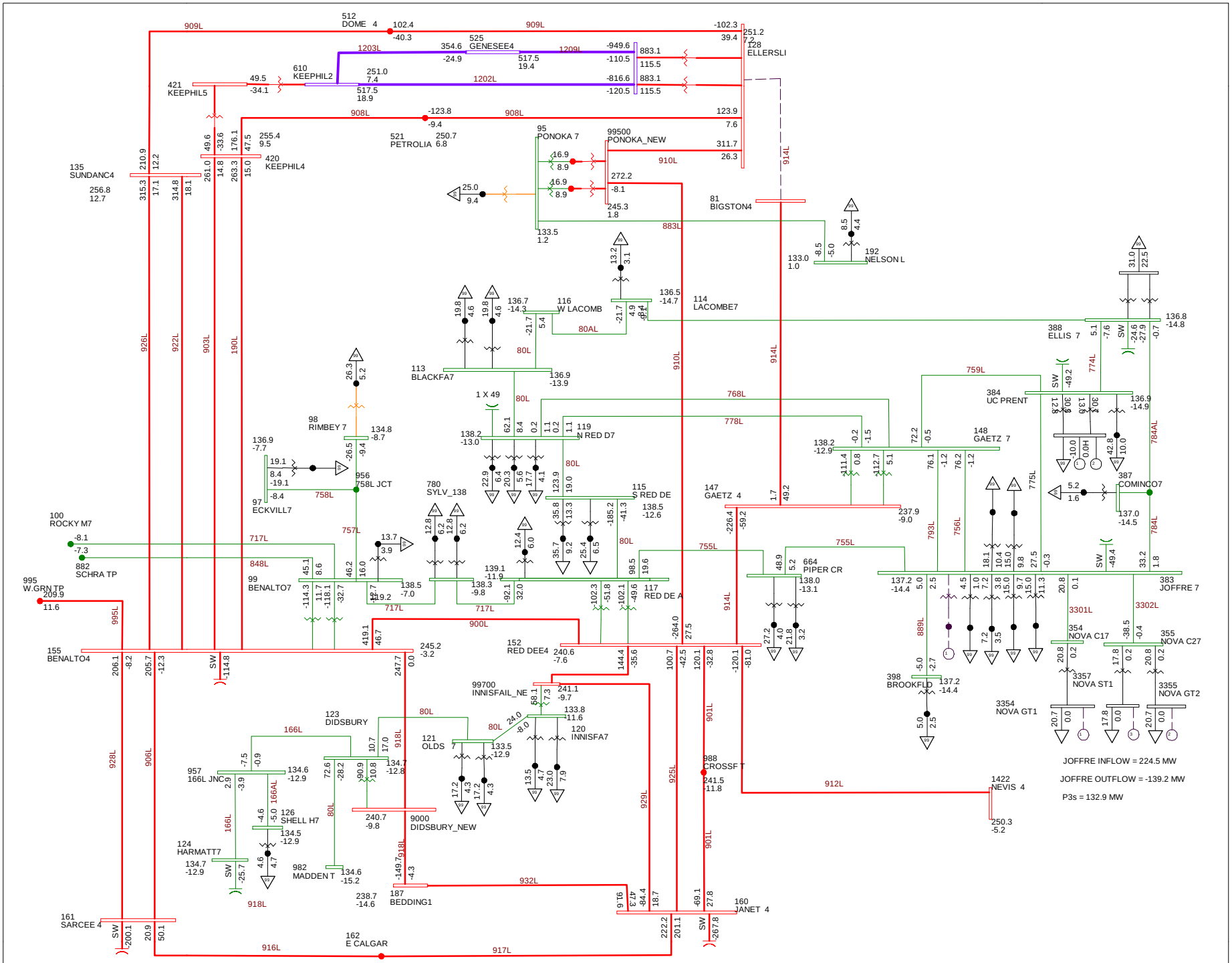
2012 WINTER PEAK BASE CASE REVISION 6.5

FIG 2012-ALT2-LOAD-WP-5(NOVA OFF)
500KV 1203L (GENESEE E330P TO KEEPHILLS 320P) OUTAGE
TUE, MAR 01 2011 16:33

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR

<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-326



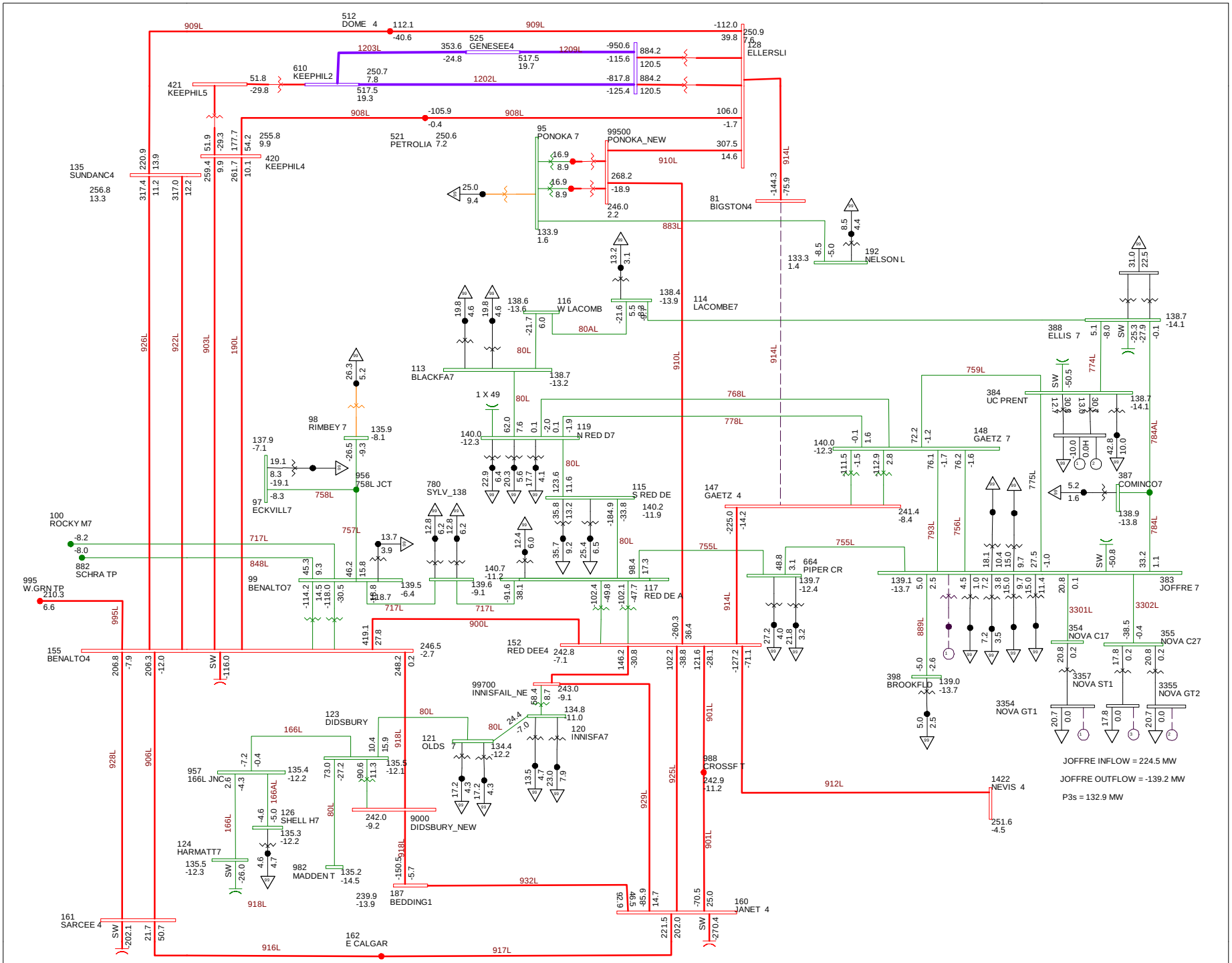
RED DEER REGION STUDY

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FIG 2012-ALT2-LOAD-WP-6(NOVA OFF)
240KV 914L (ELLERSLIE 89S TO BIGSTONE 86S) OUTAGE
TUE, MAR 01 2011 16:33

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-327

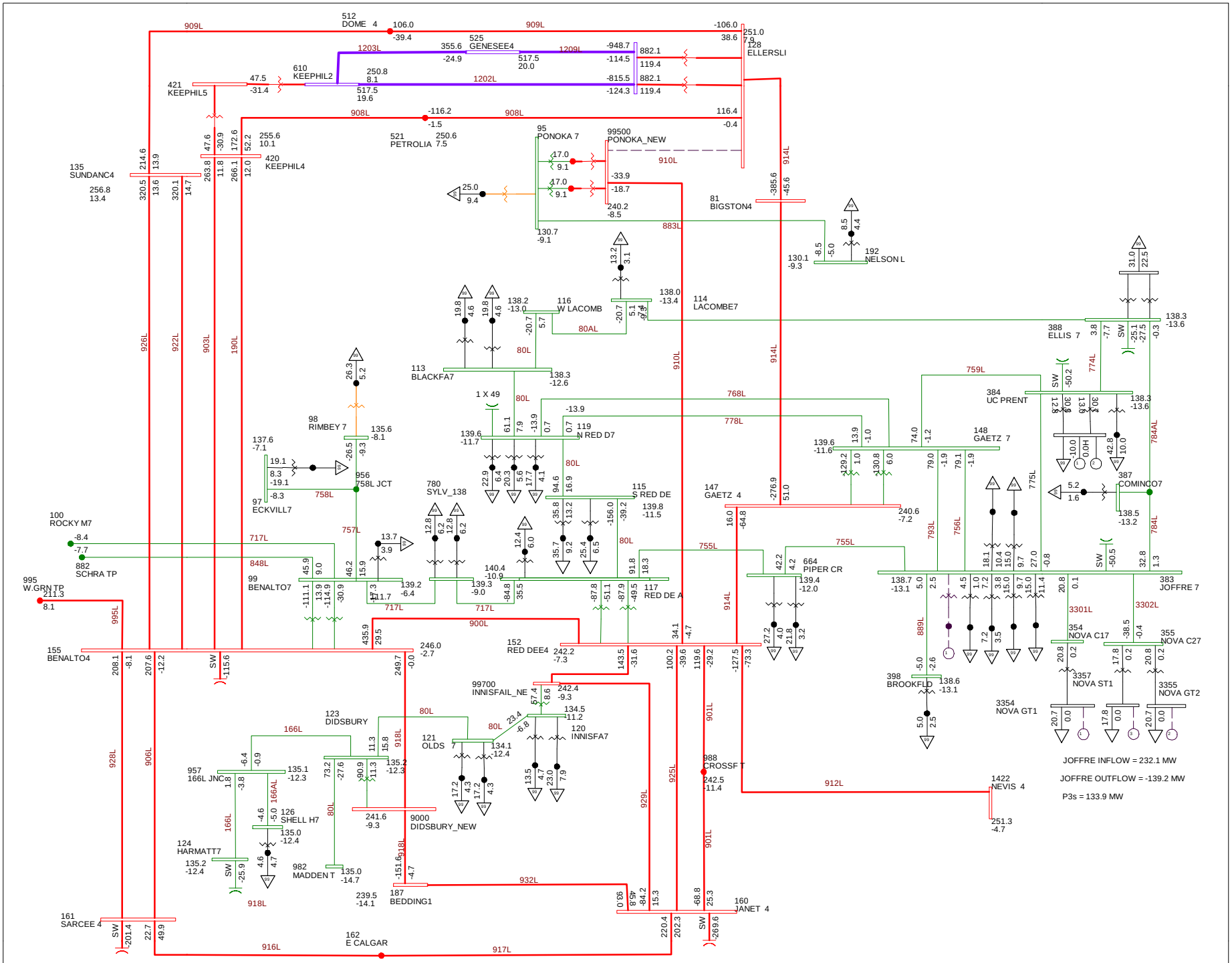


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FIG 2012-ALT2-LOAD-WP-7(NOVA OFF)
240KV 914L (BIGSTONE 86S TO GAETZ 87S) OUTAGE
TUE, MAR 01 2011 16:33

D-2012-328

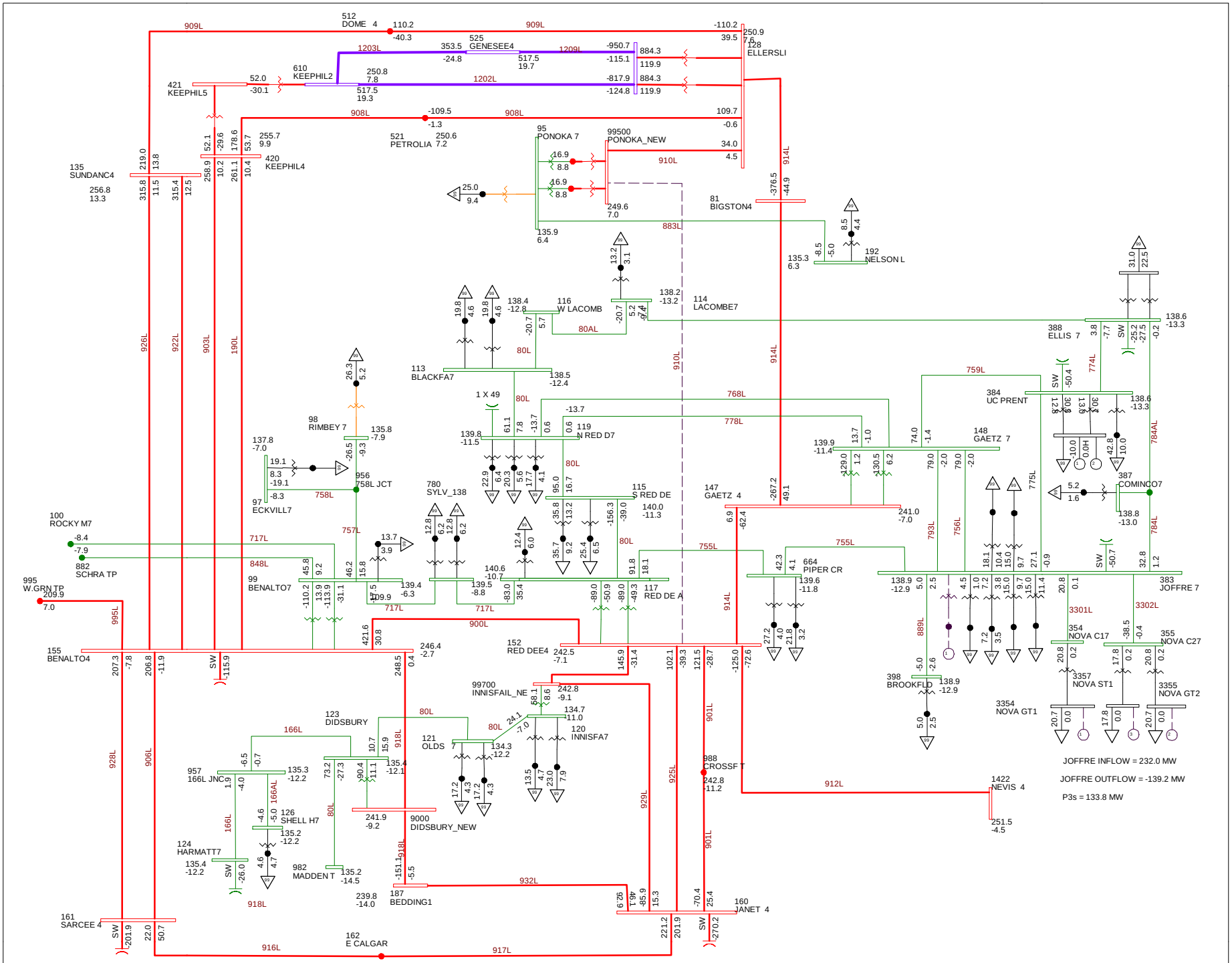


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FIG 2012-ALT2-LOAD-WP-8(NOVA OFF)
240KV 910L (ELLERSLIE 89S TO PONOKA 331S) OUTAGE
TUE, MAR 01 2011 16:33

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-329

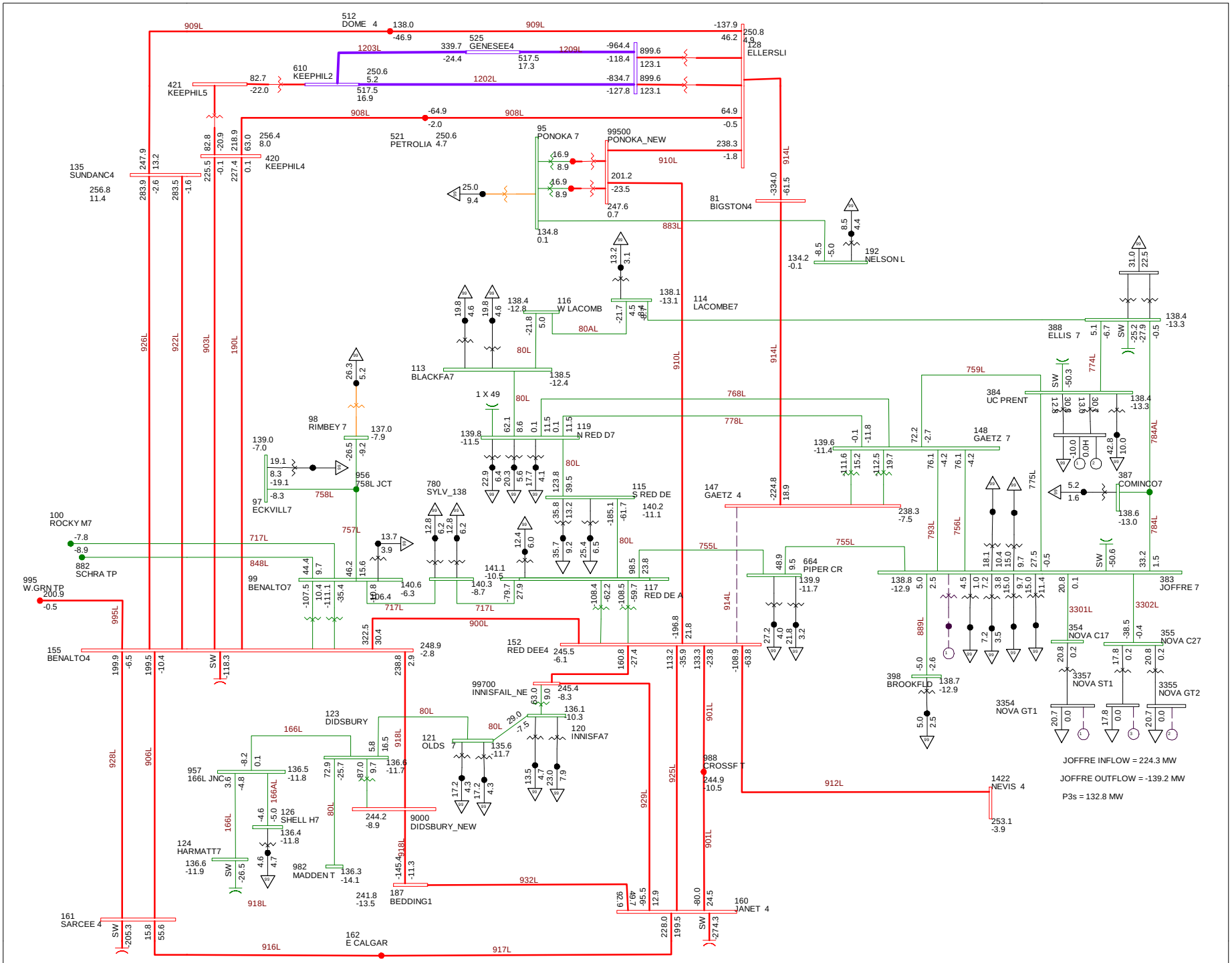


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2012 WINTER PEAK BASE CASE REVISION 6.5

FIG 2012-ALT2-LOAD-WP-9(NOVA OFF)
240KV 910L (PONOKA 331S TO RED DEER 63S) OUTAGE
TUE, MAR 01 2011 16:33

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-330

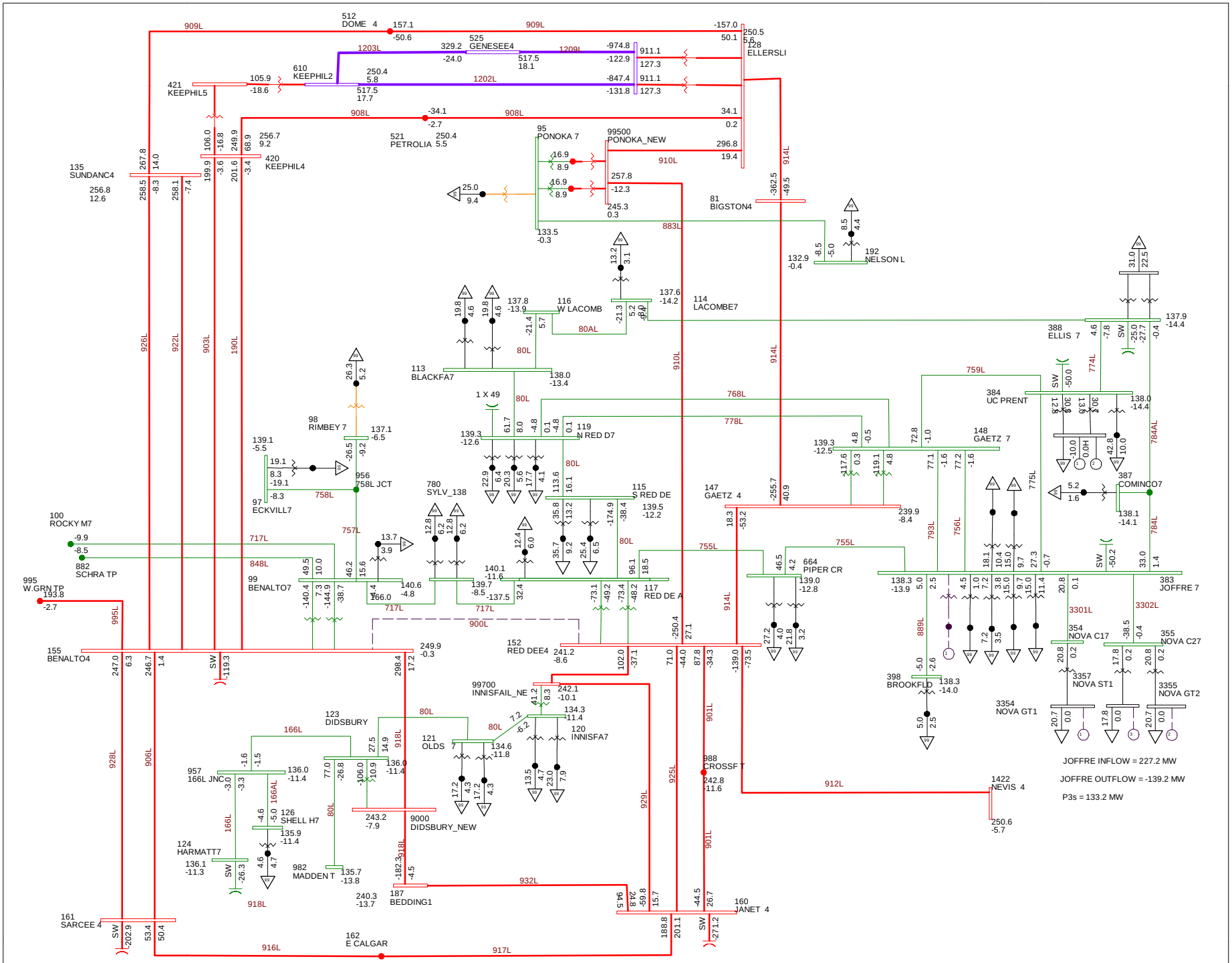


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FIG 2012-ALT2-LOAD-WP-10(NOVA OFF)
240KV 914L (GAETZ 87S TO RED DEER 63S) OUTAGE
TUE, MAR 01 2011 16:33

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-331



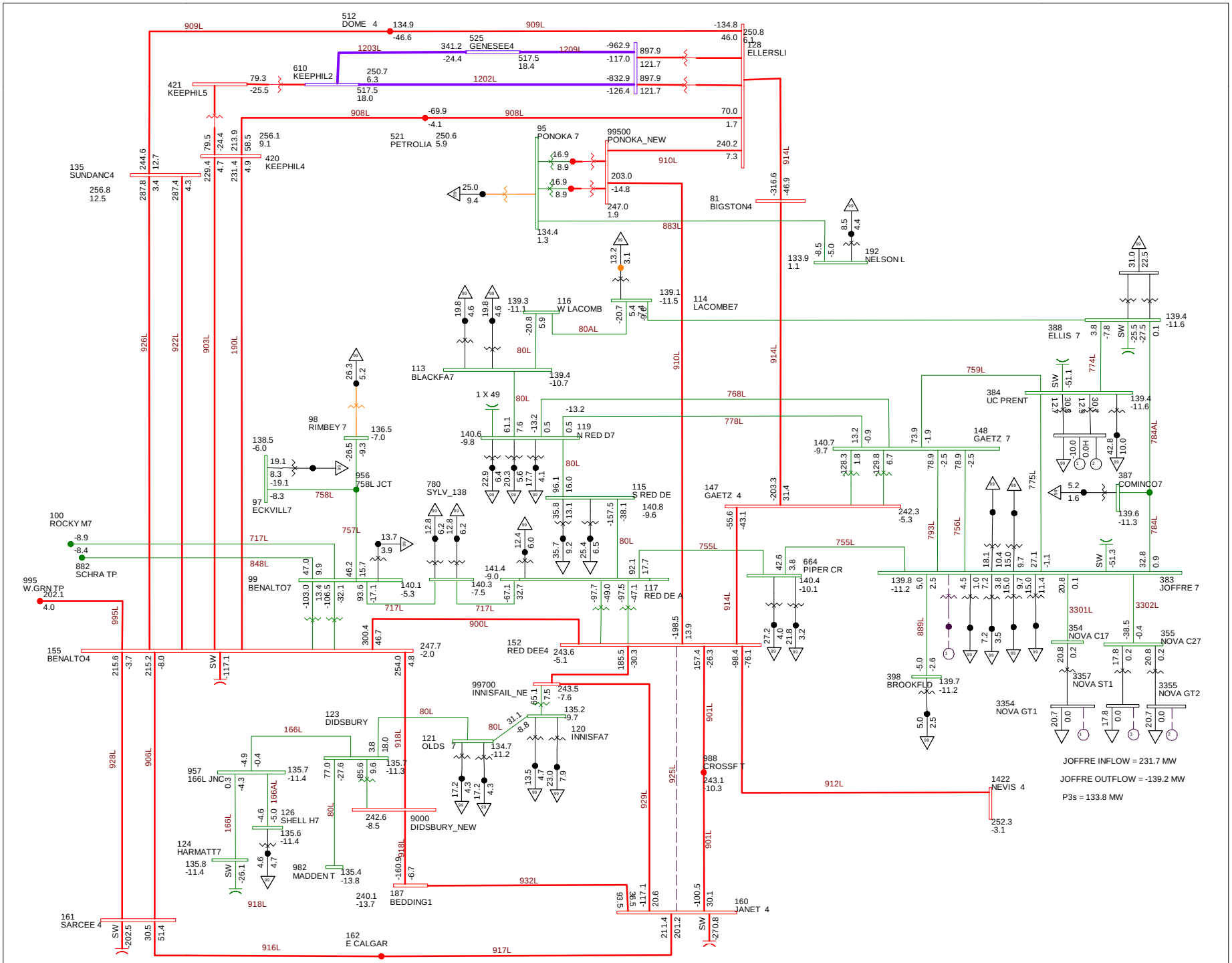
RED DEER REGION STUDY

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FIG 2012-ALT2-LOAD-WP-11(NOVA OFF)
240KV 900L (RED DEER 63S TO BENALTO 17S) OUTAGE
TUE, MAR 01 2011 16:33

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-332



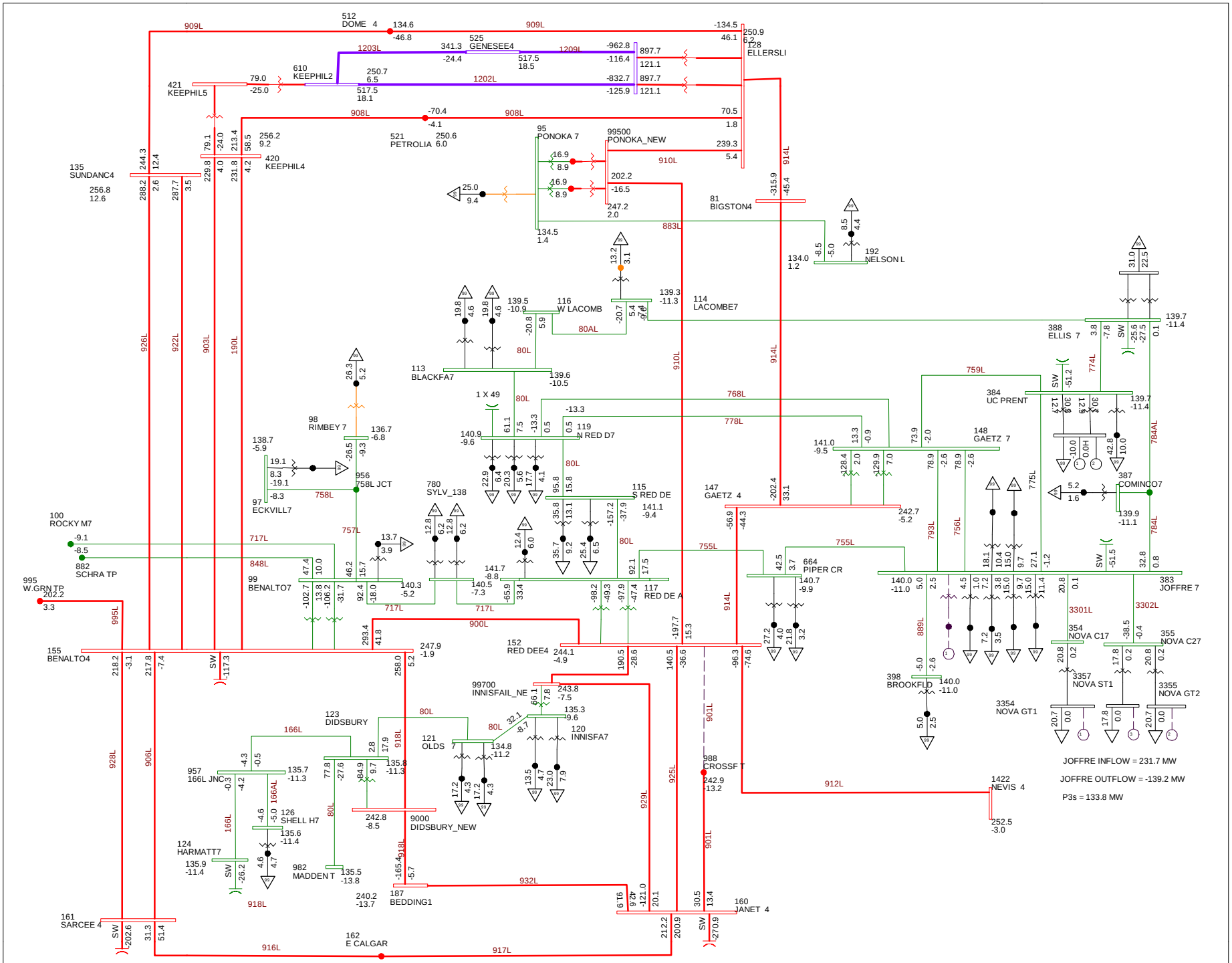
RED DEER REGION STUDY

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FIG 2012-ALT2-LOAD-WP-12(NOVA OFF)
240KV 925L (RED DEER 63S TO JANET 74S) OUTAGE
TUE, MAR 01 2011 16:33

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-333

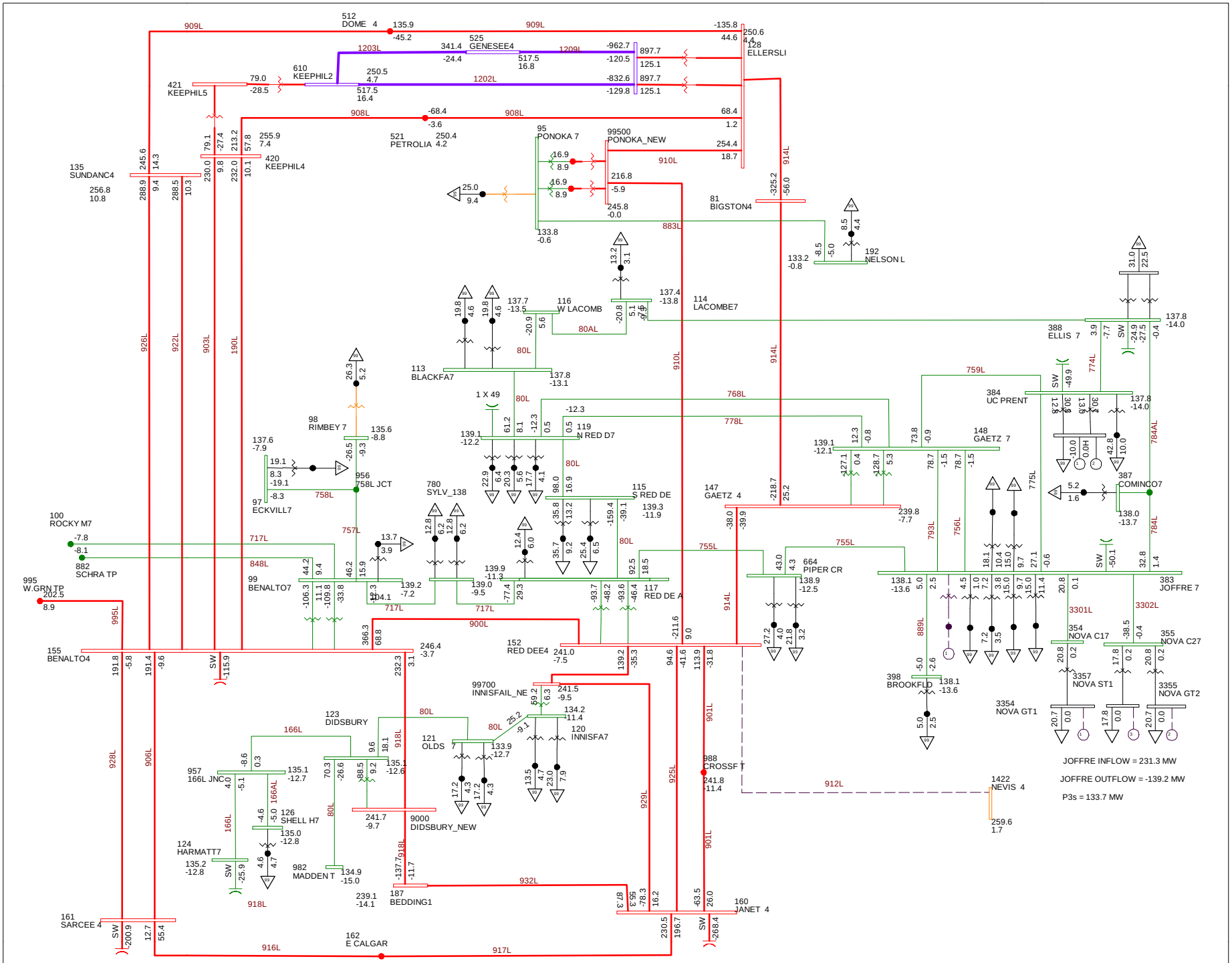


RED DEER REGION STUDY
2012 WINTER PEAK BASE CASE REVISION 6.5

FIG 2012-ALT2-LOAD-WP-13(NOVA OFF)
240KV 901L (RED DEER 63S TO CROSSFIELD 64S) OUTAGE
TUE, MAR 01 2011 16:33

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-334



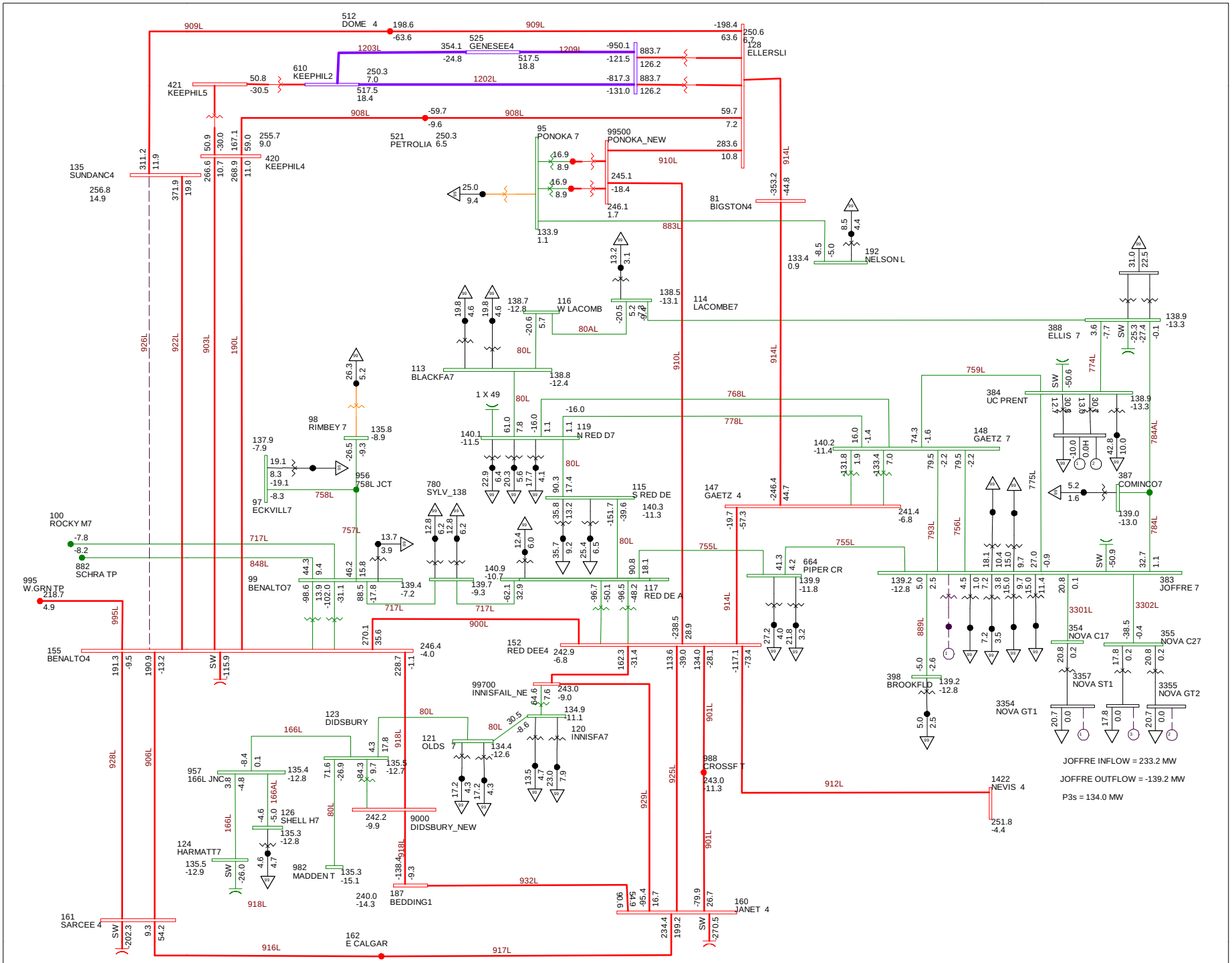
RED DEER REGION STUDY

2012 WINTER PEAK BASE CASE REVISION 6.5

FIG 2012-ALT2-LOAD-WP-14(NOVA OFF)
240KV 912L (RED DEER 63S TO NEVIS 766S) OUTAGE
TUE, MAR 01 2011 16:33

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-335



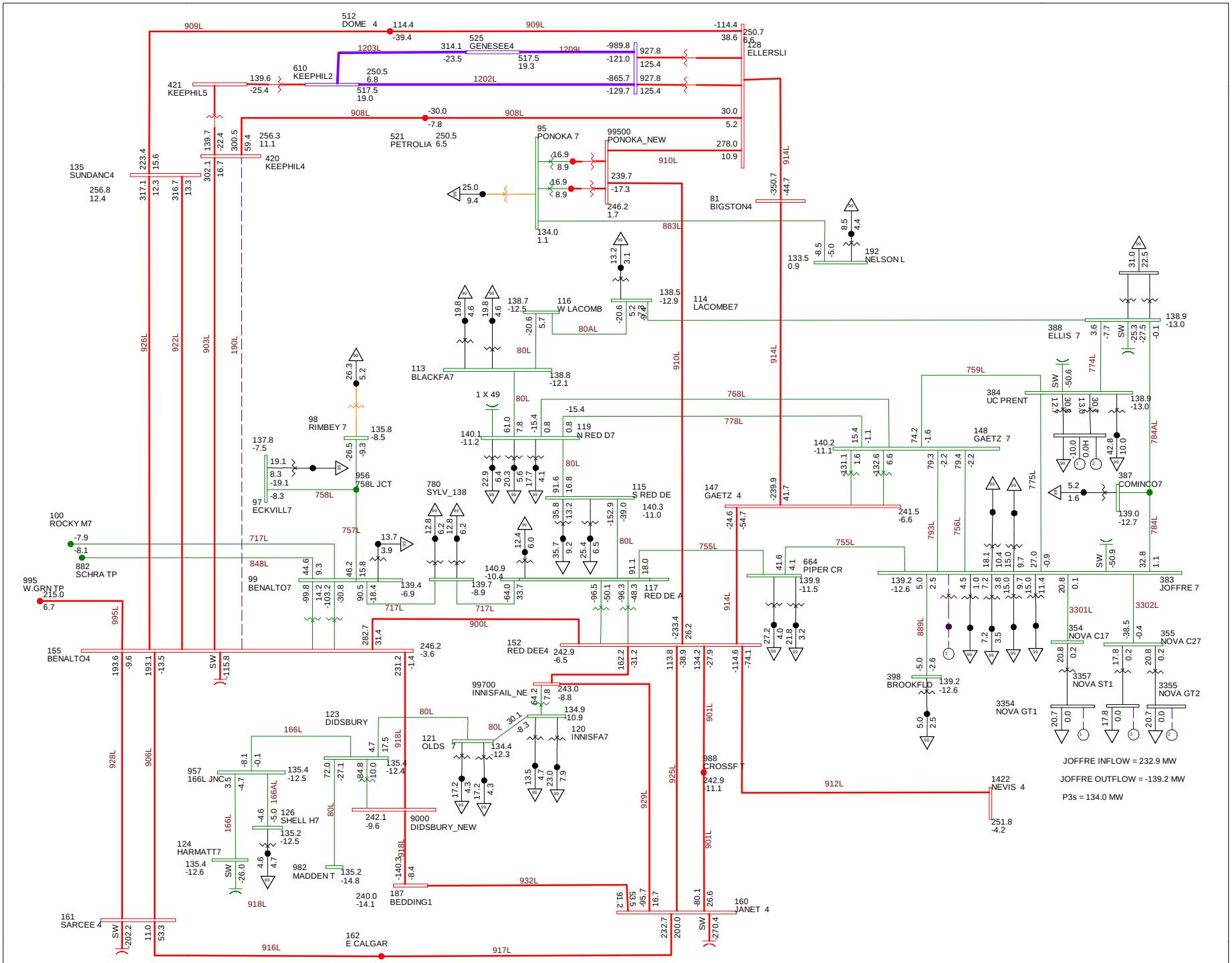
RED DEER REGION STUDY

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FIG 2012-ALT2-LOAD-WP-15(NOVA OFF)
240 KV 926/922L (SUNDANCE 310P TO BENALTO 17S) OUTAGE
TUE, MAR 01 2011 16:33

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-336

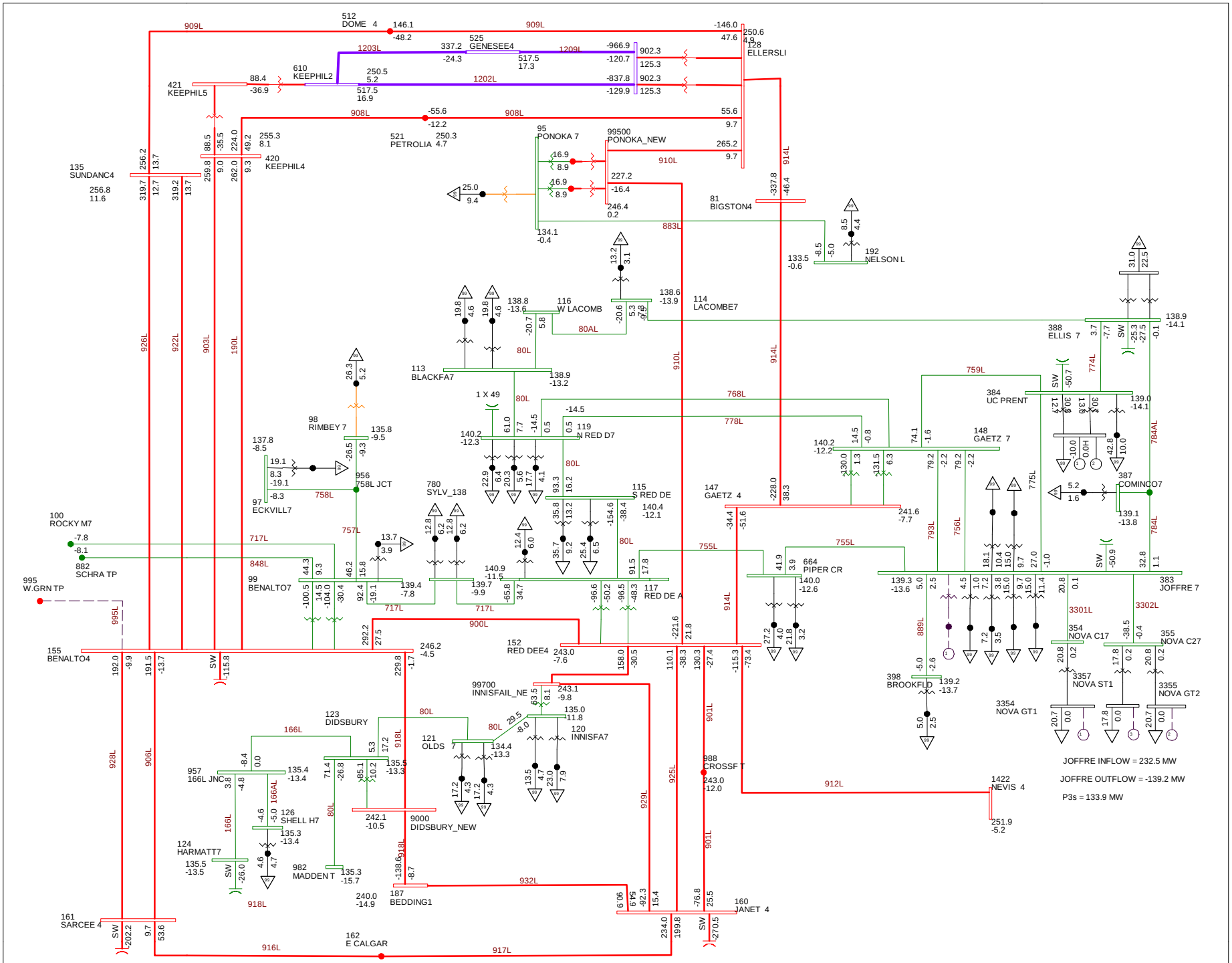


RED DEER REGION STUDY
2012 WINTER PEAK BASE CASE REVISION 6.5

FIG 2012-ALT2-LOAD-WP-16(NOVA OFF)
240KV 190/903L (KEEPHILLS 320P TO BENALTO 17S) OUTAGE
TUE, MAR 01 2011 16:33

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-337

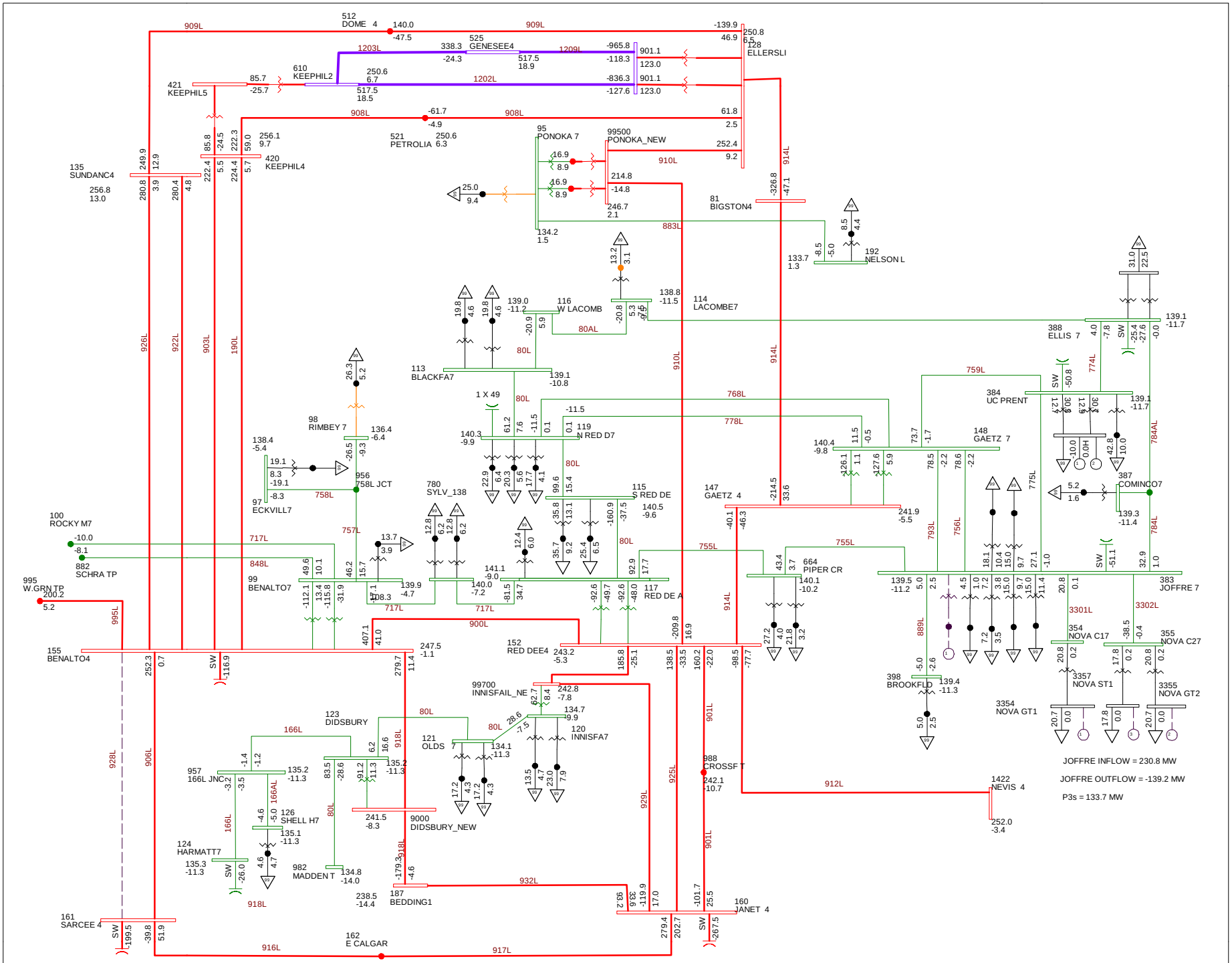


RED DEER REGION STUDY
2012 WINTER PEAK BASE CASE REVISION 6.5

FIG 2012-ALT2-LOAD-WP-17(NOVA OFF)
240 KV 995L (AMOCO WILLESDEN GREEN 68S TO BENALTO 17S) OUTAG
TUE, MAR 01 2011 16:33

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-338

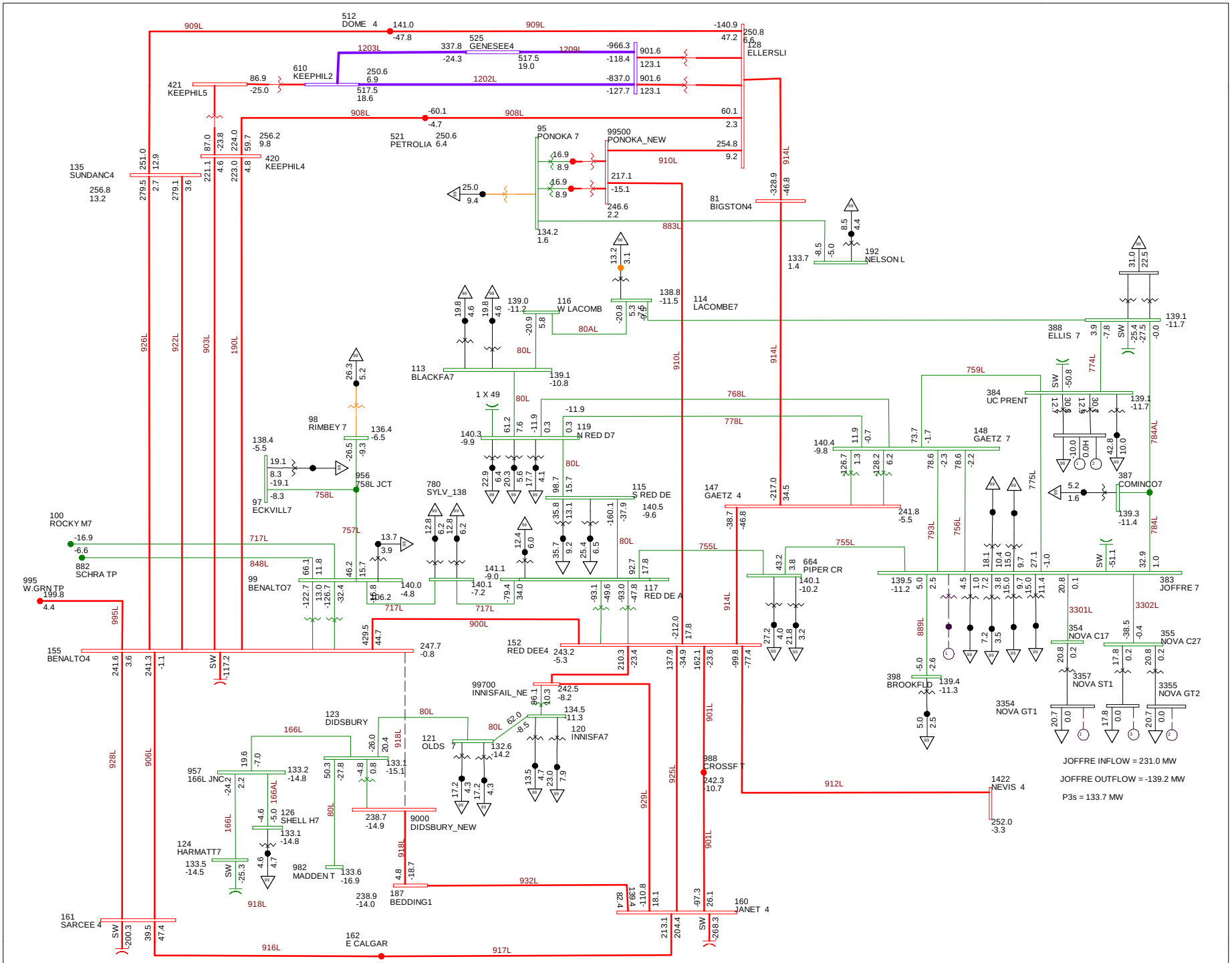


RED DEER REGION STUDY
2012 WINTER PEAK BASE CASE REVISION 6.5

FIG 2012-ALT2-LOAD-WP-18(NOVA OFF)
240 KV 906/928L (BENALTO 17S TO SARCEE 42S) OUTAGE
TUE, MAR 01 2011 16:33

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-339



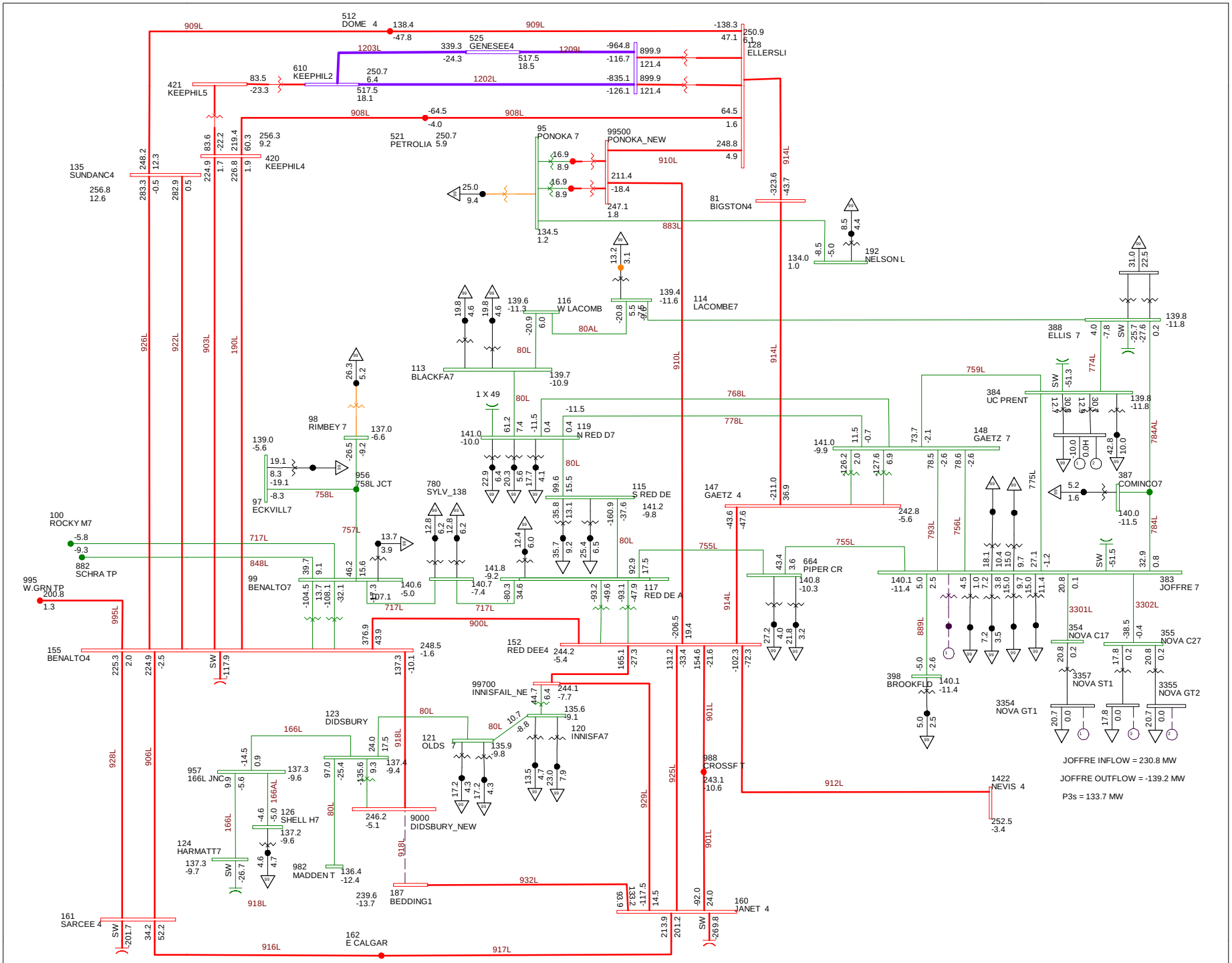
RED DEER REGION STUDY

2012 WINTER PEAK BASE CASE REVISION 6.5

FIG 2012-ALT2-LOAD-WP-19(NOVA OFF)
240 KV 918L (BENALTO 17S TO DIDSBURY SUB. (152S)) OUTAGE
TUE, MAR 01 2011 16:33

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-340

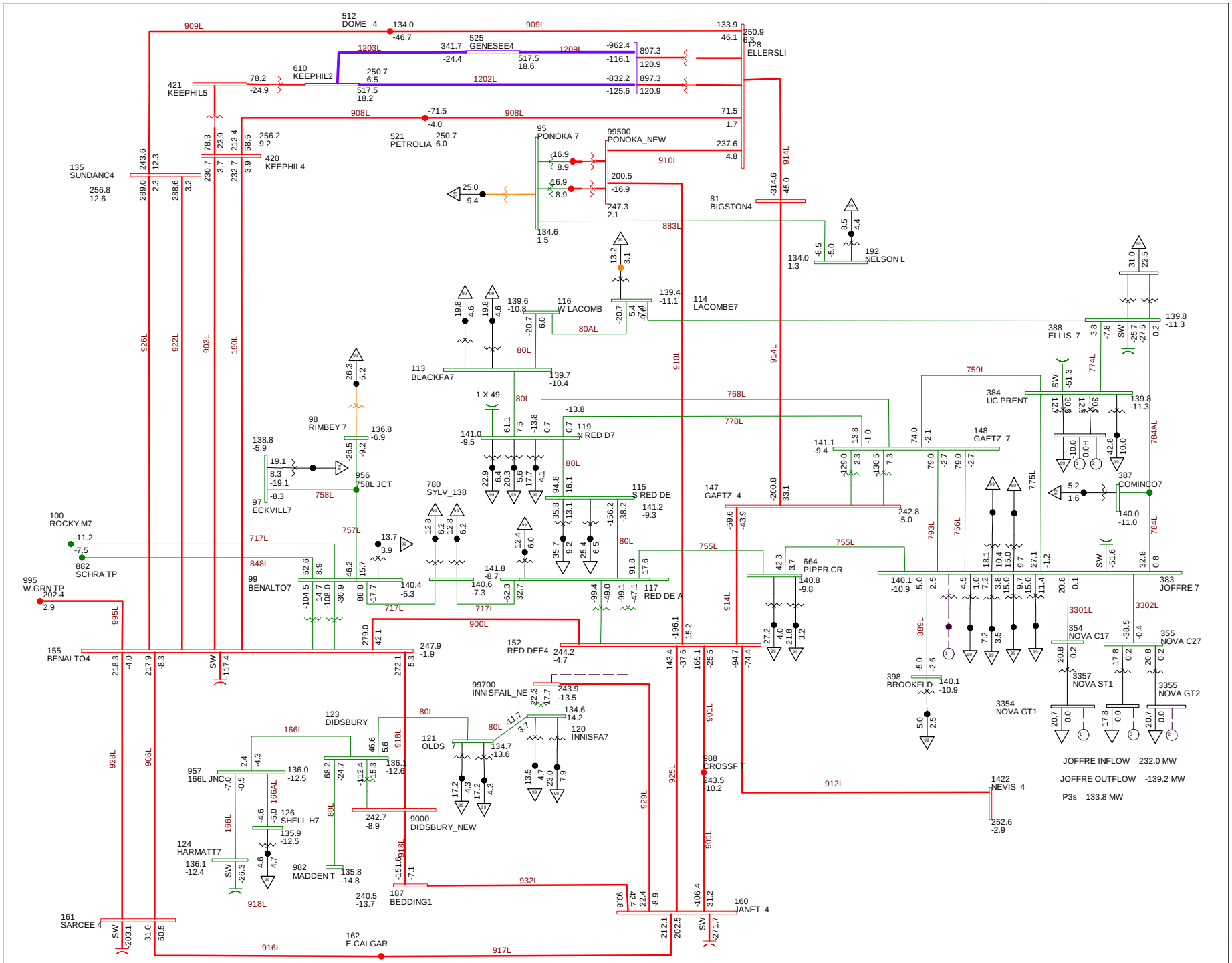


RED DEER REGION STUDY
2012 WINTER PEAK BASE CASE REVISION 6.5

FIG 2012-ALT2-LOAD-WP-20(NOVA OFF)
240 KV 918L (DIDSBURY SUB. (152S) TO BEDDINGTON 162S) OUTAGE
TUE, MAR 01 2011 16:33

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-341

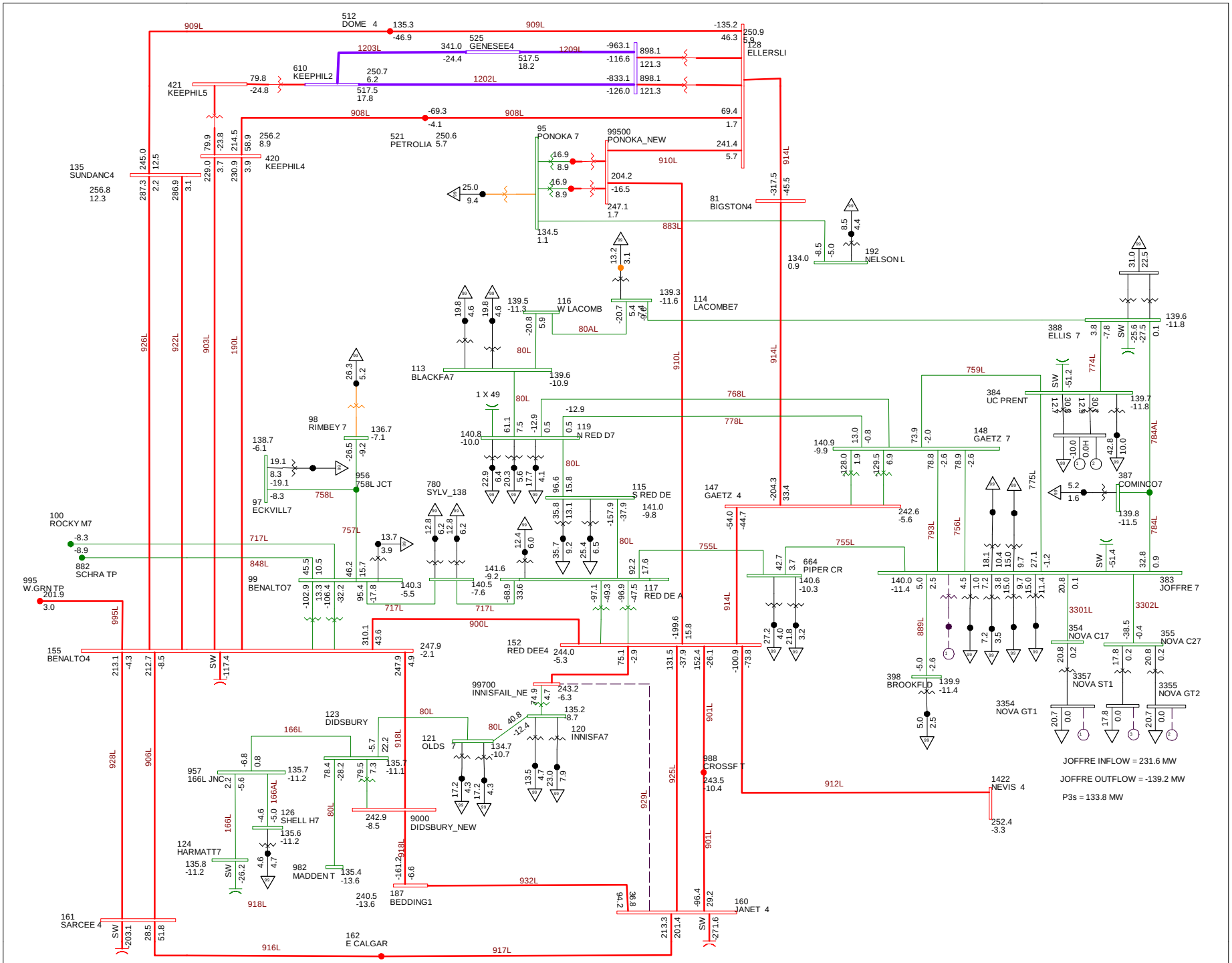


RED DEER REGION STUDY
2012 WINTER PEAK BASE CASE REVISION 6.5

FIG 2012-ALT2-LOAD-WP-21(NOVA OFF)
240 KV 929L (RED DEER 63S TO INNISFAIL 214S) OUTAGE
TUE, MAR 01 2011 16:33

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-342



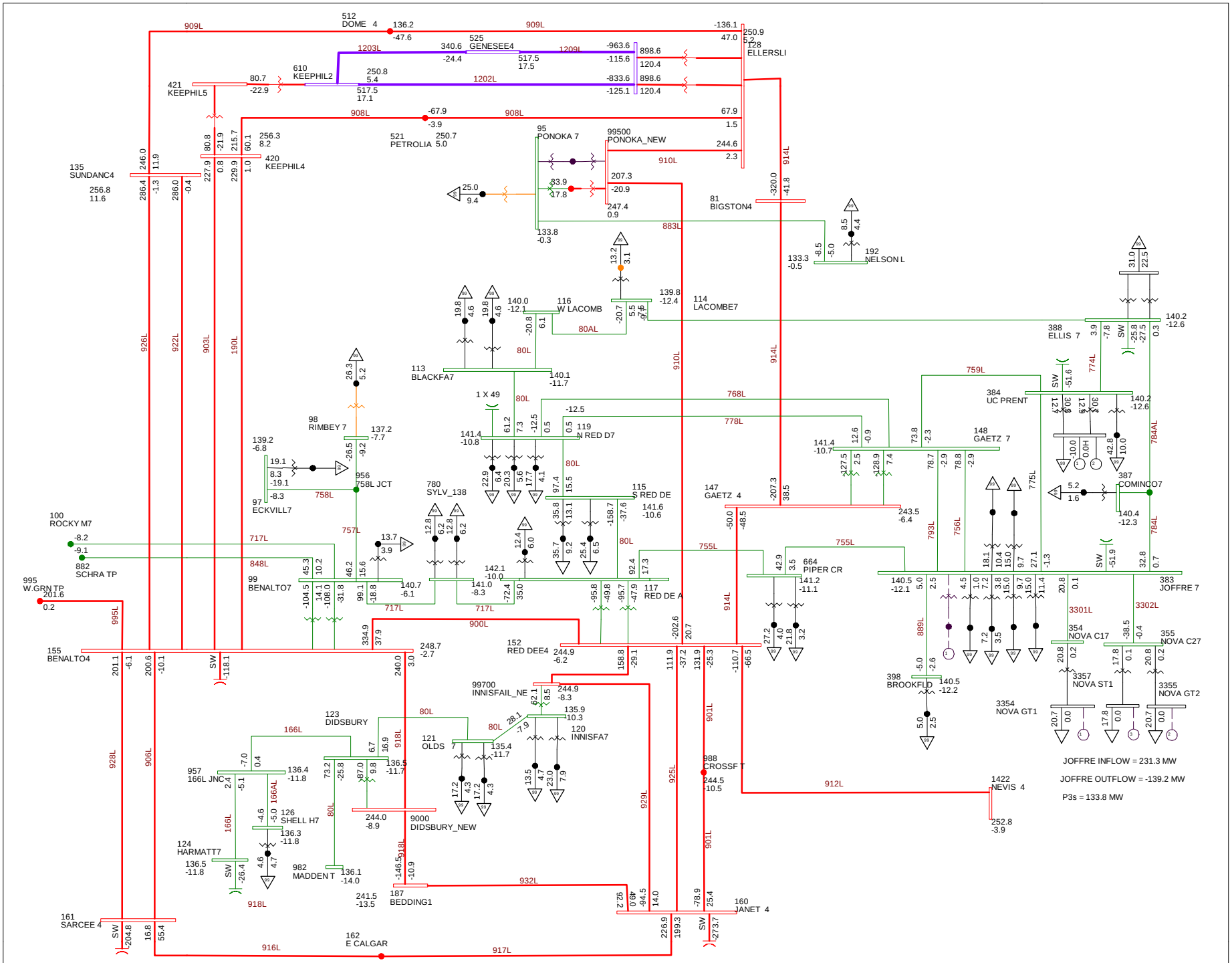
RED DEER REGION STUDY

2012 WINTER PEAK BASE CASE REVISION 6.5

FIG 2012-ALT2-LOAD-WP-22(NOVA OFF)
240KV 929L (INNISFAIL 214S TO JANET 74S) OUTAGE
TUE, MAR 01 2011 16:33

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-343

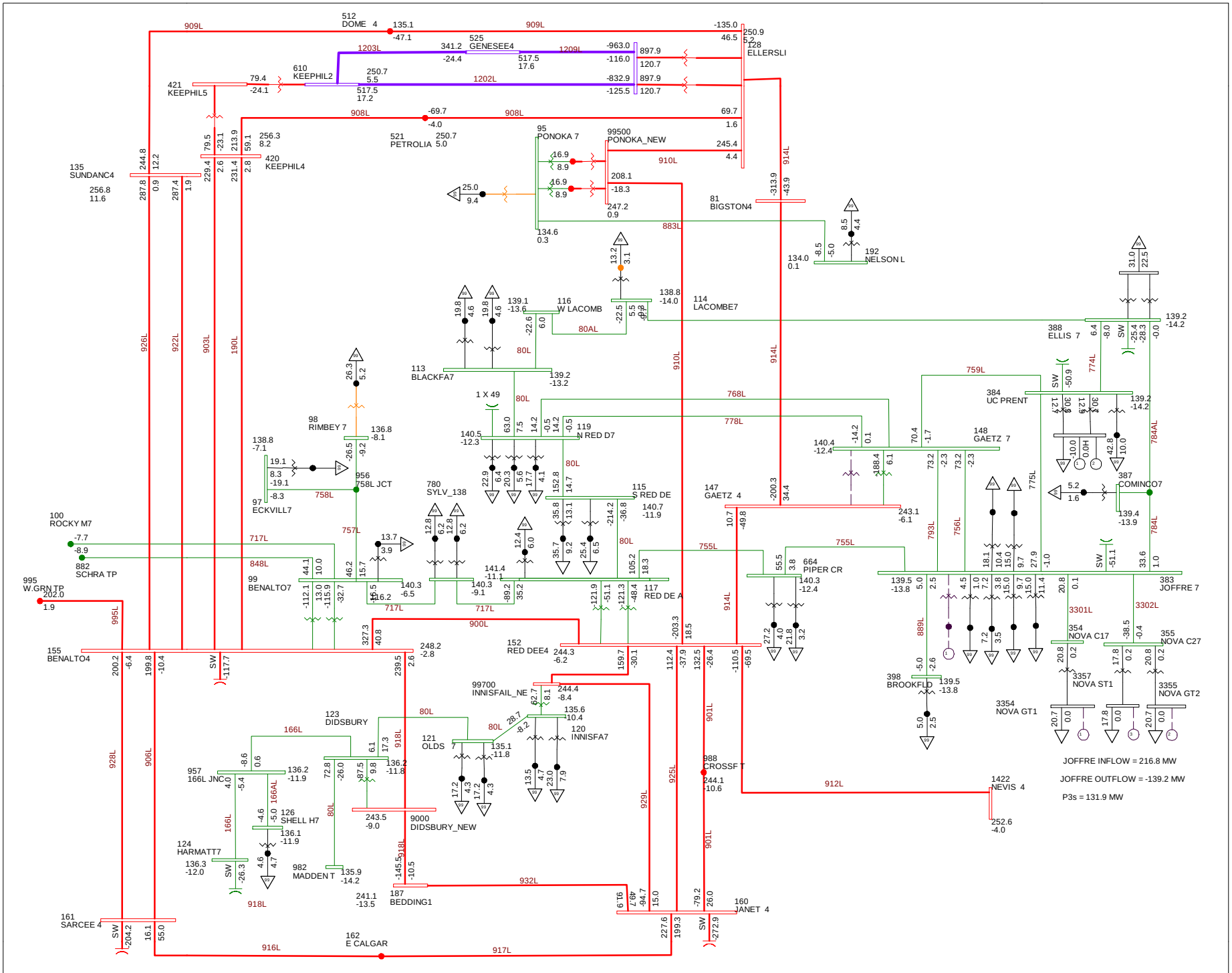


RED DEER REGION STUDY

2012 WINTER PEAK BASE CASE REVISION 6.5

FIG 2012-ALT2-LOAD-WP-23(NOVA OFF)
240/138KV TRANSFORMER AT PONOKA 331S OUTAGE
TUE, MAR 01 2011 16:33

D-2012-344

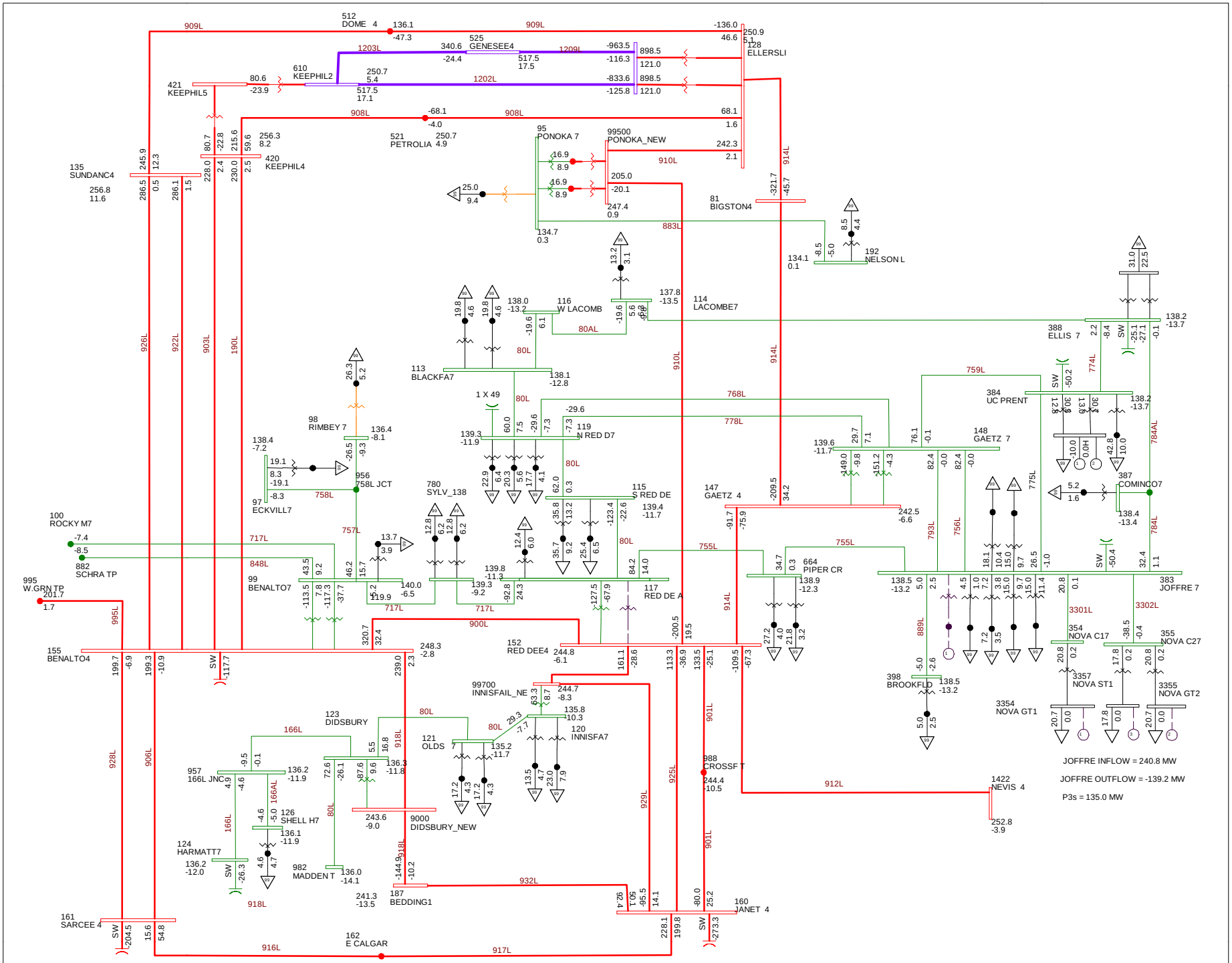


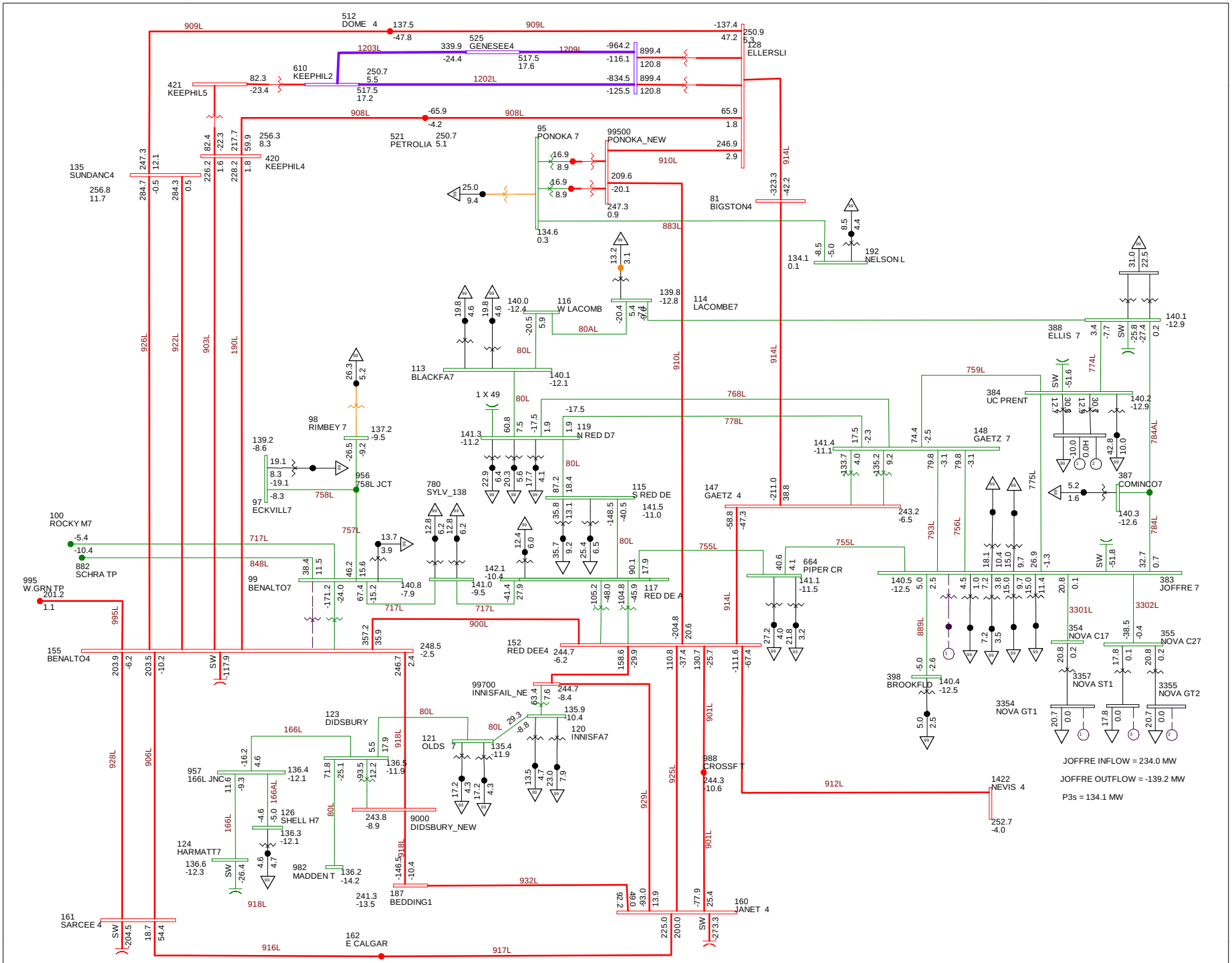
RED DEER REGION STUDY

2012 WINTER PEAK BASE CASE REVISION 6.5

FIG 2012-ALT2-LOAD-WP-24(NOVA OFF)
240/138KV TRANSFORMER AT GAETZ 87S OUTAGE
TUE, MAR 01 2011 16:33

D-2012-345


512
DOME 4
136.1
-47.3
909L
525
GENESEE4
340.6
-24.4
1203L
1209L
517.5
17.5
-963.5
-116.3
898.5
121.0
1202L
-833.6
-125.8
898.5
121.0
-136.0
46.6
250.9
5.1
128
ELLERSLI
610
KEEPHIL2
250.7
5.4
517.5
17.1
80.6
-23.9
421
KEEPHIL5
908L
-68.1
-4.0
68.1
1.6
521
PETROLIA
250.7
4.9
95
PONOKA 7
99500
PONOKA_NEW
242.3
2.1
910L
914L
16.9
8.9
16.9
8.9
205.0
-20.1
247.4
0.9
25.0
9.4
-321.7
-45.7
81
BIGSTON4
883L
134.7
0.3
8.5
4.4
134.1
0.1
8.5
-5.0
192
NELSON L
135
SUNDANC4
245.9
12.3
286.5
0.5
286.1
1.5
256.8
11.6
228.0
2.4
230.0
2.5
80.7
-22.8
215.6
59.6
256.3
8.2
420
KEEPHIL4
926L
922L
903L
190L
910L
914L
13.2
3.1
137.8
-13.5
114
LACOMBE7
138.0
-13.2
116
W LACOMB
-19.6
5.6
-6.8
80AL
19.8
4.6
19.8
4.6
-19.6
6.1
80L
113
BLACKFA7
138.1
-12.8
31.0
22.5
138.2
-13.7
388
ELLIS 7
2.2
-8.4
SW
-25.1
-27.1
-0.1
759L
774L
SW
-50.2
768L
778L
1 X 49
80L
-29.6
-7.3
-7.3
119
N RED D7
60.0
7.5
-29.6
139.3
-11.9
384
UC PRENT
138.2
-13.7
12.8
30.1
13.8
30.1
42.9
10.0
10.0
0.0H
784AL
139.6
-11.7
29.7
7.1
76.1
-0.1
148
GAETZ 7
149.0
-9.8
151.2
-4.3
82.4
-0.0
82.4
-0.0
775L
793L
756L
5.2
1.6
387
COMINCO7
138.4
-13.4
784L
26.3
5.2
98
RIMBEY 7
136.4
-8.1
26.5
-9.3
138.4
-7.2
19.1
8.3
-19.1
-8.3
956
758L JCT
758L
97
ECKVILL7
780
SYLV_138
22.9
6.4
20.3
5.6
17.7
4.1
62.0
0.3
80L
115
S RED DE
35.8
13.2
-123.4
-22.6
139.4
-11.7
147
GAETZ 4
-209.5
34.2
242.5
-6.6
-91.7
-75.9
100
ROCKY M7
-7.4
-8.5
882
SCHRA TP
717L
757L
848L
13.7
3.9
12.8
6.2
12.8
6.2
12.4
6.0
35.7
9.2
25.4
6.5
84.2
14.0
755L
664
PIPER CR
34.7
0.3
138.9
-12.3
138.5
-13.2
5.0
2.5
4.5
1.0
7.2
3.8
15.0
9.7
15.0
11.4
20.8
0.1
383
JOFFRE 7
SW
-50.4
32.4
1.1
784L
99
BENALTO7
43.5
9.2
46.2
15.7
-113.5
7.8
-117.3
-37.7
140.0
-6.5
139.8
-11.3
139.3
-9.2
-92.8
24.3
-127.5
-67.9
117
RED DE A
995
W.GRN TP
201.7
1.7
995L
717L
900L
320.7
32.4
248.3
-2.8
152
RED DEE4
244.8
-6.1
161.1
-28.6
113.3
-36.9
133.5
-25.1
-109.5
-67.3
914L
-200.5
19.5
889L
-5.0
-2.6
398
BROOKFLD
138.5
-13.2
5.0
2.5
3301L
3302L
354
NOVA C17
355
NOVA C27
38.5
-0.4
155
BENALTO4
199.7
-6.9
199.3
-10.9
SW
-117.7
239.0
2.3
928L
906L
99700
INNISFAIL_NE
244.7
-8.3
63.3
8.7
135.8
-10.3
29.3
-7.7
80L
123
DIDSBURY
166L
80L
121
OLDS 7
135.2
-11.7
120
INNISFA7
901L
988
CROSSFT
244.4
-10.5
912L
1422
NEVIS 4
252.8
-3.9
3357
NOVA ST1
3355
NOVA GT2
3354
NOVA GT1
JOFFRE INFLOW = 240.8 MW
JOFFRE OUTFLOW = -139.2 MW
P3s = 135.0 MW
957
166L JNC
136.2
-11.9
-9.5
-0.1
4.9
-4.6
166AL
72.6
-26.1
87.6
9.6
136.3
-11.8
16.8
5.5
918L
17.2
4.3
17.2
4.3
13.5
4.7
23.0
7.9
929L
925L
126
SHELL H7
136.1
-11.9
-4.6
-5.0
166L
124
HARMATT7
136.2
-12.0
SW
-26.3
4.6
4.7
243.6
-9.0
9000
DIDSBURY_NEW
982
MADDEN T
136.0
-14.1
-144.9
-10.2
241.3
-13.5
187
BEDDING1
932L
92.4
60.1
-95.5
14.1
-80.0
25.2
160
JANET 4
228.1
199.8
SW
-273.3
161
SARCEE 4
SW
-204.5
15.6
54.8
916L
162
E CALGAR
917L
D-2012-346
RED DEER REGION STUDY
2012 WINTER PEAK BASE CASE REVISION 6.5
FIG 2012-ALT2-LOAD-WP-25(NOVA OFF)
240/138KV TRANSFORMER AT RED DEER 63S OUTAGE
TUE, MAR 01 2011 16:33
Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000
<=138.000
>500.000
<=34.500
<=240.000
<=500.000

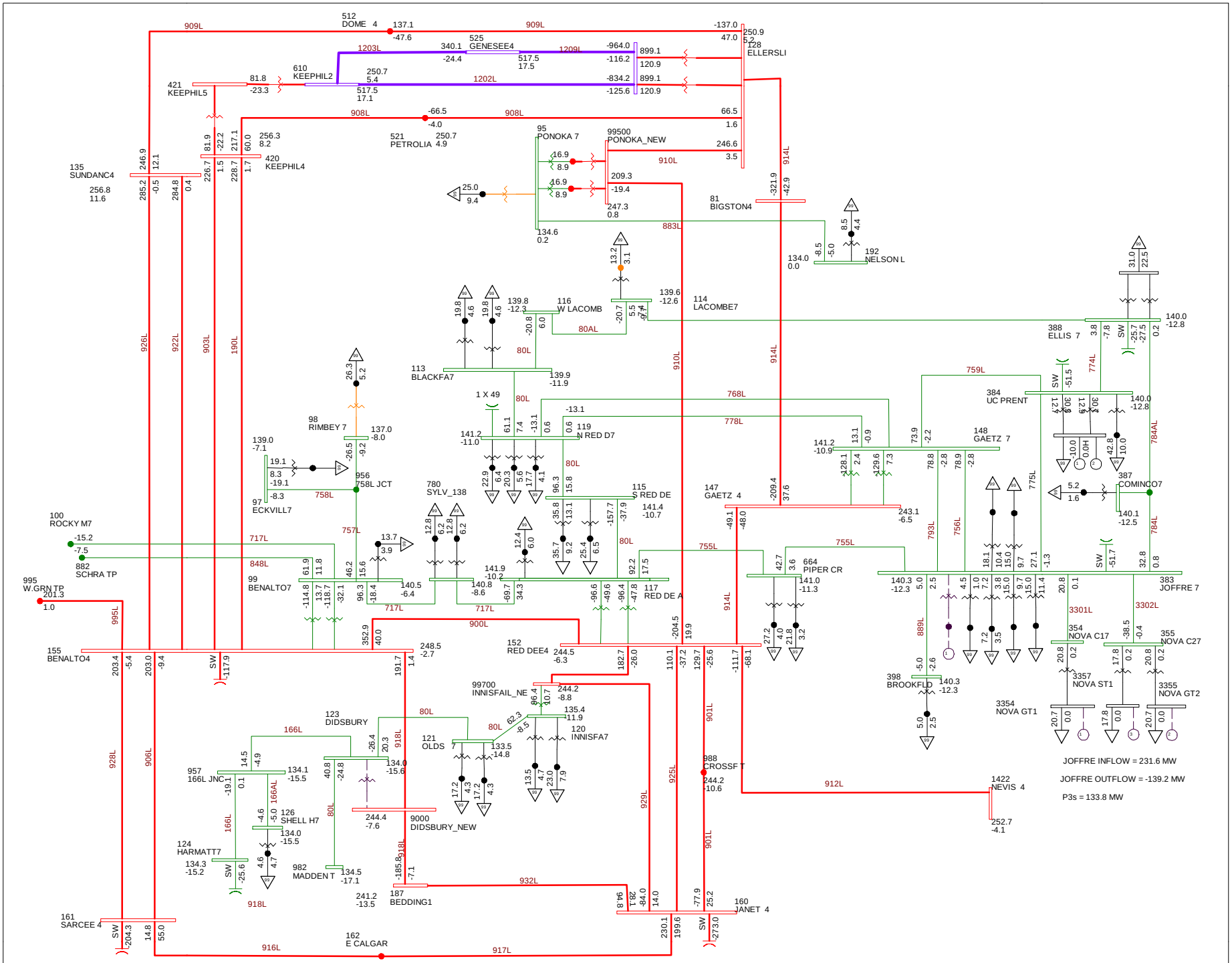


RED DEER REGION STUDY
2012 WINTER PEAK BASE CASE REVISION 6.5

FIG 2012-ALT2-LOAD-WP-26(NOVA OFF)
240/138KV TRANSFORMER AT BENALTO 17S OUTAGE
TUE, MAR 01 2011 16:34

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-347

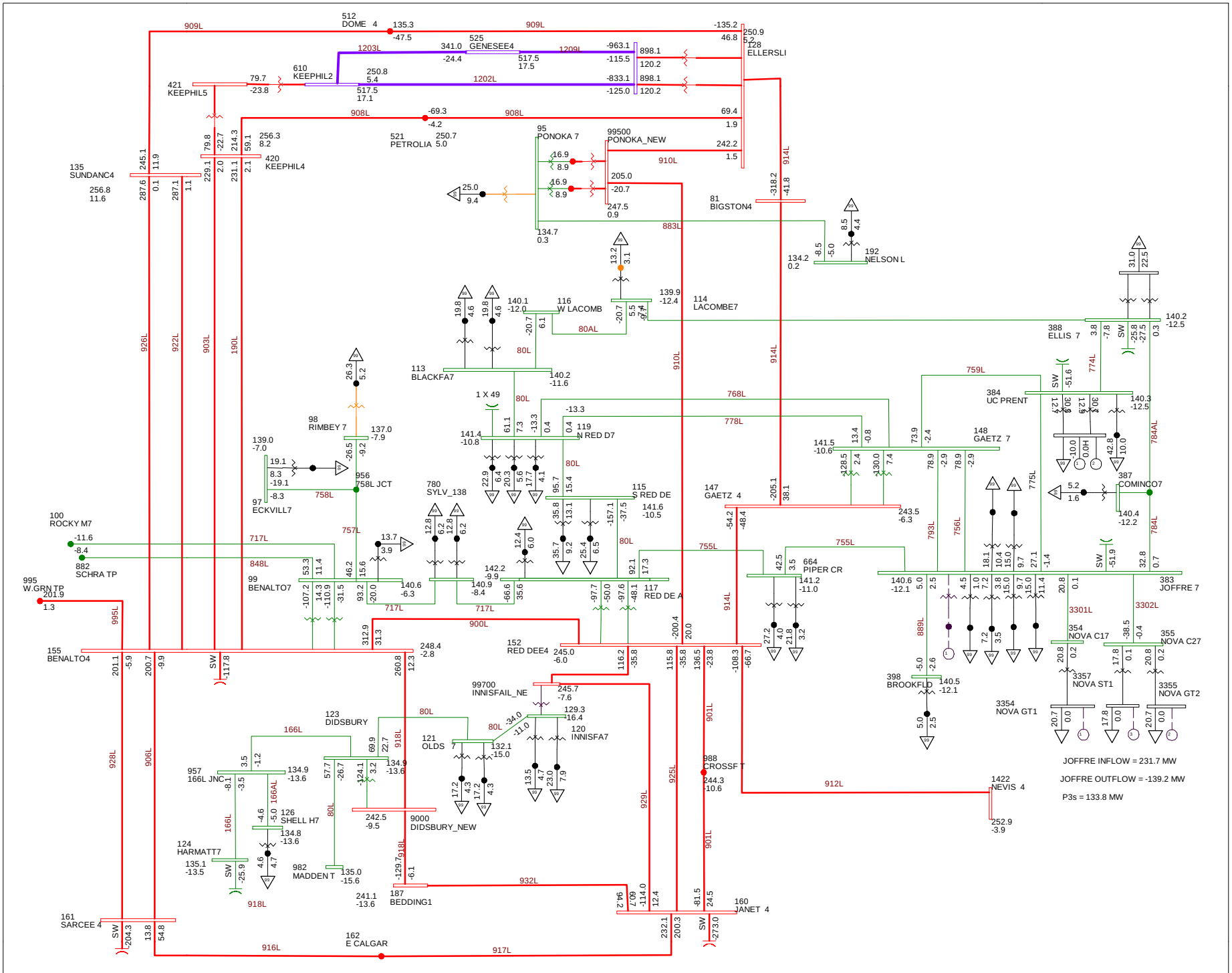


RED DEER REGION STUDY
2012 WINTER PEAK BASE CASE REVISION 6.5

FIG 2012-ALT2-LOAD-WP-27(NOVA OFF)
240/138KV TRANSFORMER AT DIDSBURY SUB. (152S) OUTAGE
TUE, MAR 01 2011 16:34

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-348

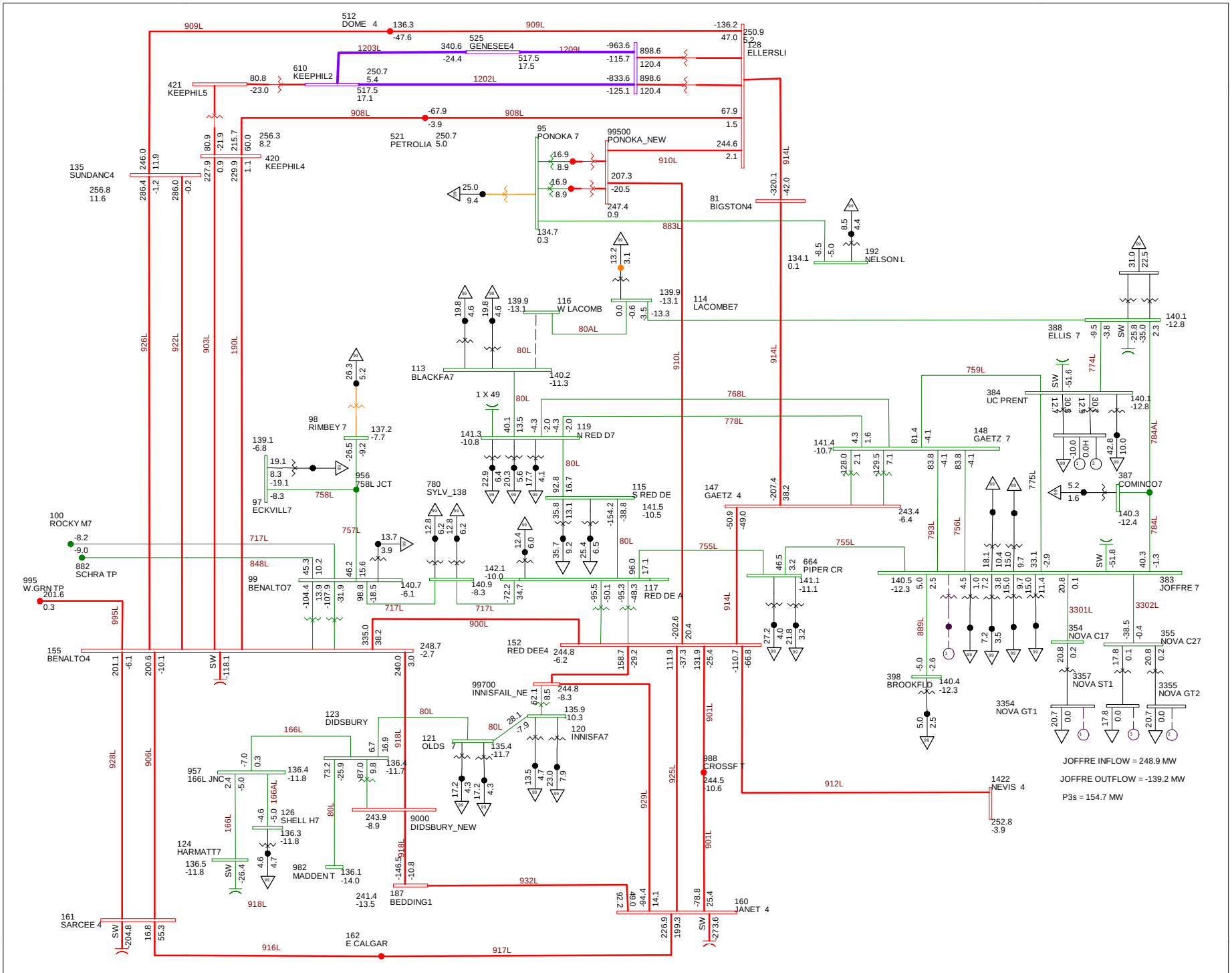


RED DEER REGION STUDY
2012 WINTER PEAK BASE CASE REVISION 6.5

FIG 2012-ALT2-LOAD-WP-28(NOVA OFF)
240/138KV TRANSFORMER AT INNISFAIL 214S OUTAGE
TUE, MAR 01 2011 16:34

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-349



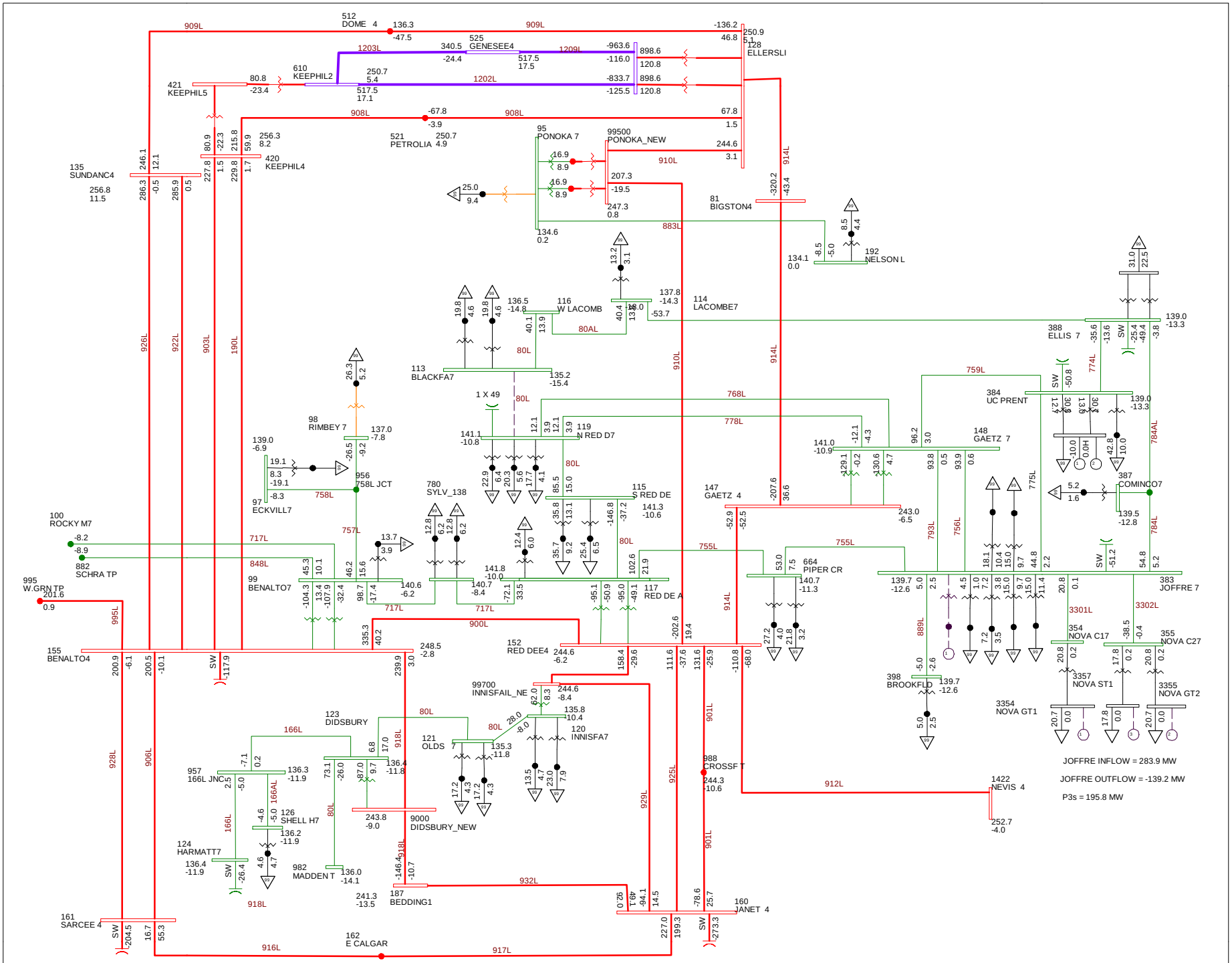
RED DEER REGION STUDY

2012 WINTER PEAK BASE CASE REVISION 6.5

FIG 2012-ALT2-LOAD-WP-29(NOVA OFF)
138 KV 80L (W. LACOMBE 958S TO BLACKFALDS 198S) OUTAGE
TUE, MAR 01 2011 16:34

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-350

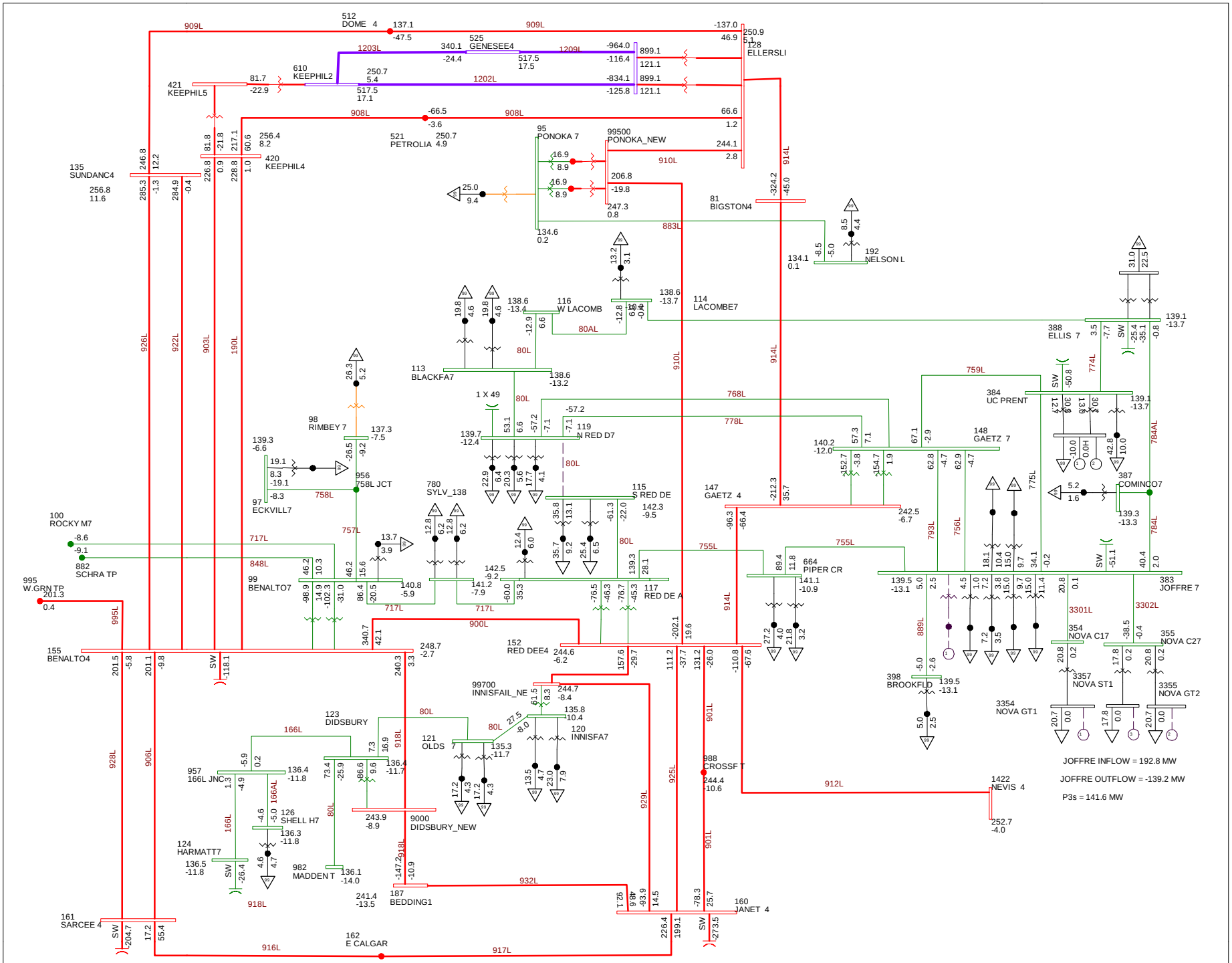


RED DEER REGION STUDY
2012 WINTER PEAK BASE CASE REVISION 6.5

FIG 2012-ALT2-LOAD-WP-30(NOVA OFF)
138 KV 80L (BLACKFALDS 198S TO N. RED DEER 217S) OUTAGE
TUE, MAR 01 2011 16:34

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-351

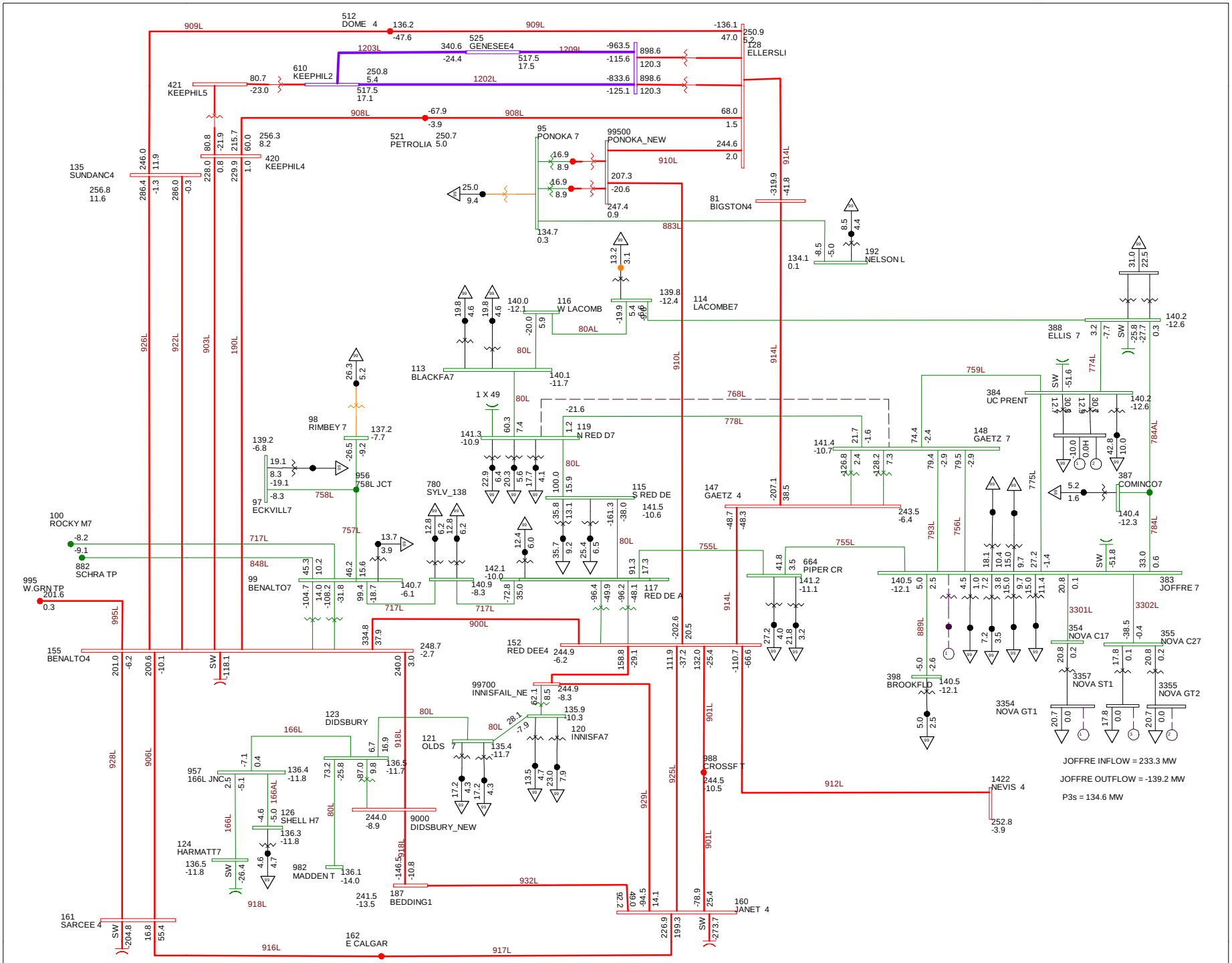


RED DEER REGION STUDY
2012 WINTER PEAK BASE CASE REVISION 6.5

FIG 2012-ALT2-LOAD-WP-31(NOVA OFF)
138 KV 80L (N. RED DEER 217S TO S. RED DEER 194S) OUTAGE
TUE, MAR 01 2011 16:34

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-352



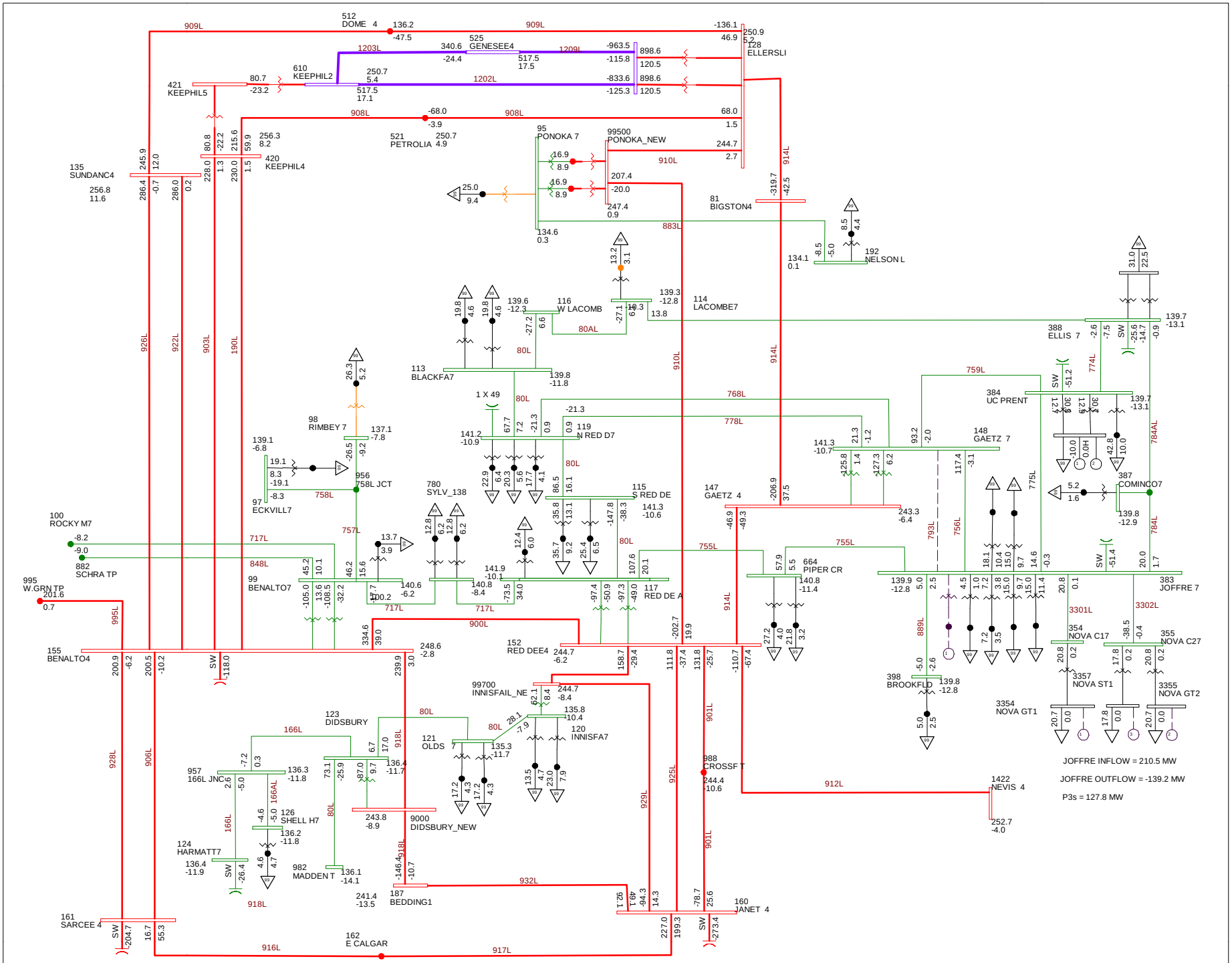
RED DEER REGION STUDY

2012 WINTER PEAK BASE CASE REVISION 6.5

FIG 2012-ALT2-LOAD-WP-32(NOVA OFF)
138 KV 768/778L (N. RED DEER 217S TO GAETZ 87S) OUTAGE
TUE, MAR 01 2011 16:34

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-353

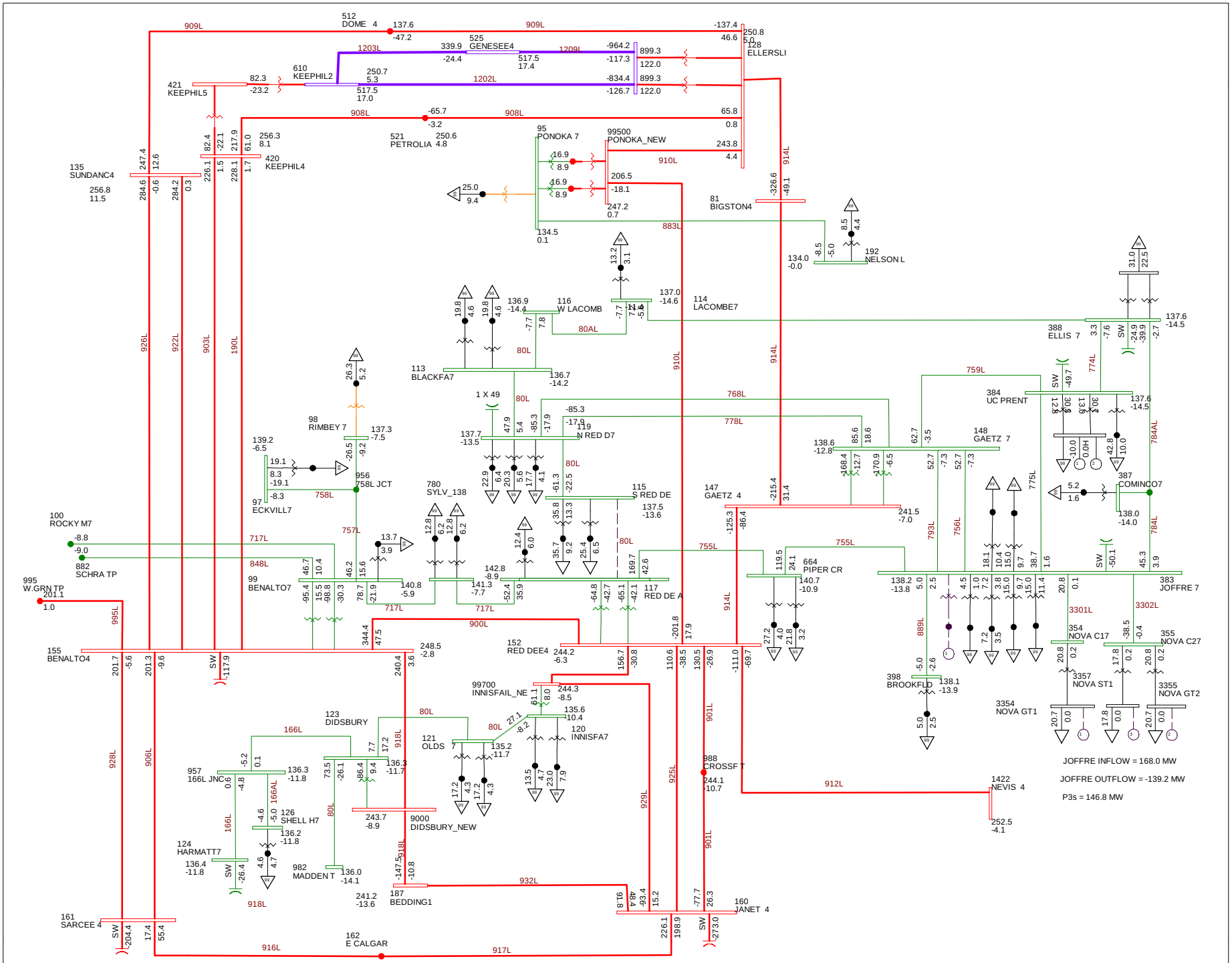


RED DEER REGION STUDY
2012 WINTER PEAK BASE CASE REVISION 6.5

FIG 2012-ALT2-LOAD-WP-33(NOVA OFF)
138 KV 793/756L (GAETZ 87S TO JOFFRE 535S) OUTAGE
TUE, MAR 01 2011 16:34

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-354



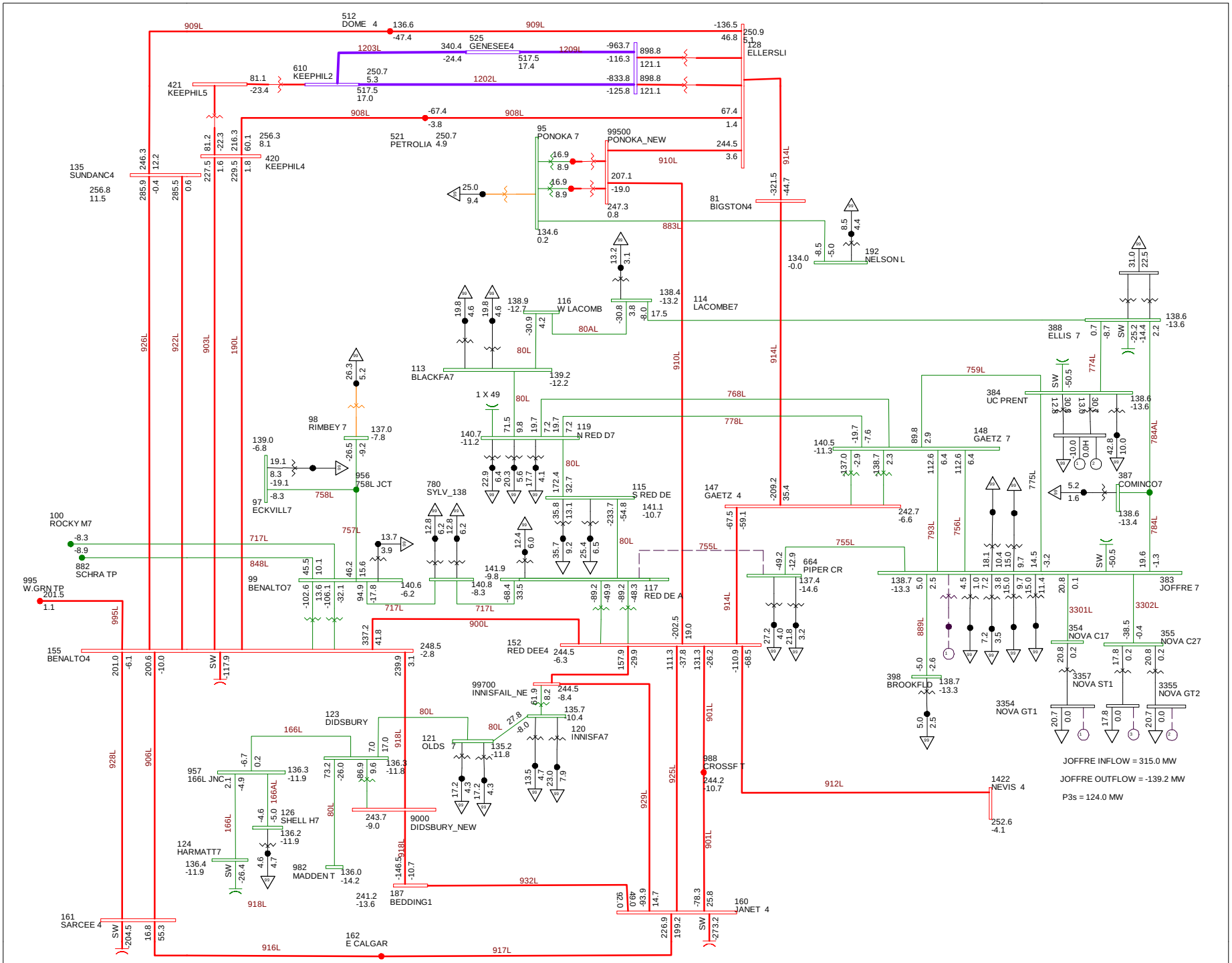
RED DEER REGION STUDY

2012 WINTER PEAK BASE CASE REVISION 6.5

FIG 2012-ALT2-LOAD-WP-34(NOVA OFF)
138 KV 80L (S. RED DEER 194S TO RED DEER 63S) OUTAGE
TUE, MAR 01 2011 16:34

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-355

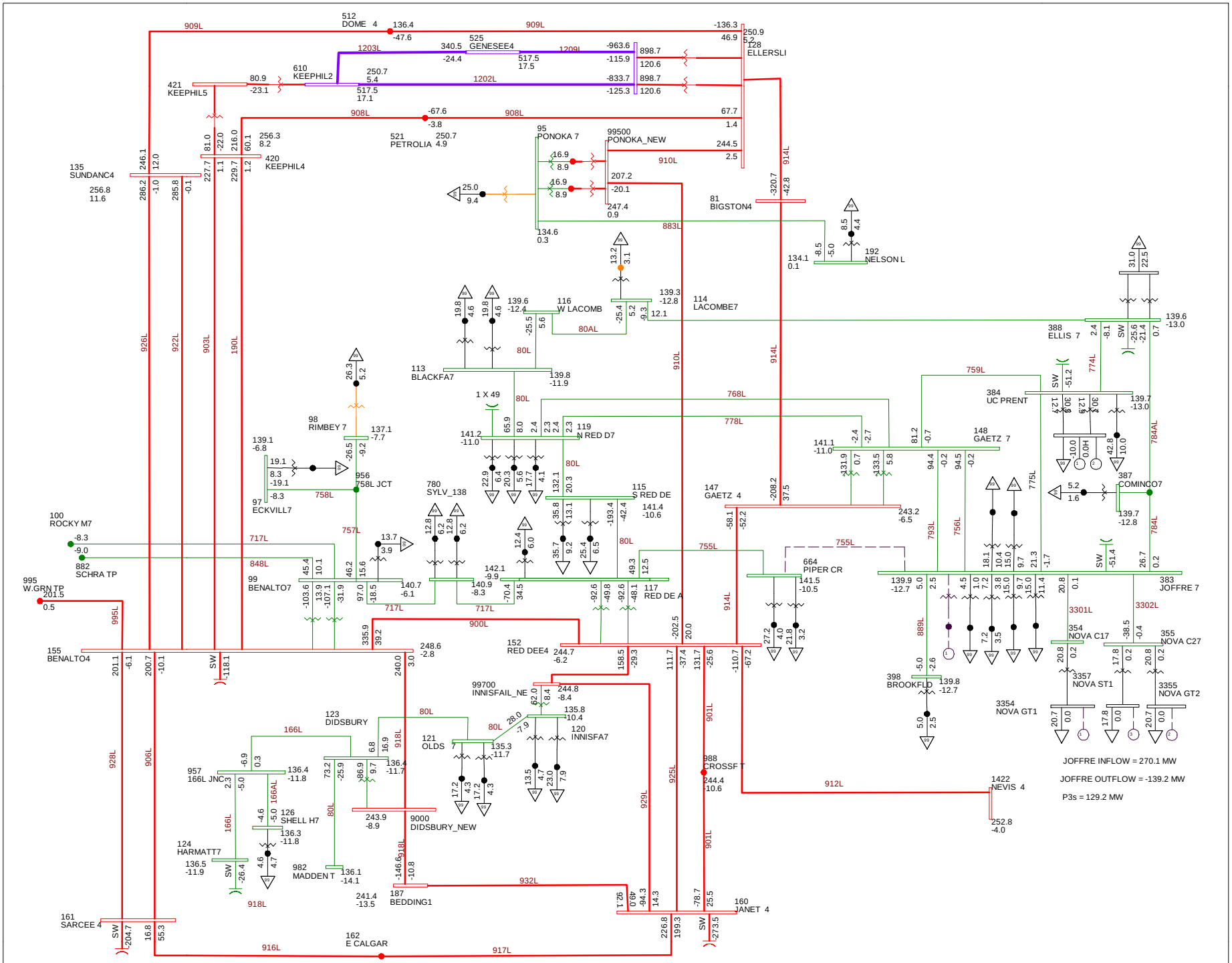


RED DEER REGION STUDY
2012 WINTER PEAK BASE CASE REVISION 6.5

FIG 2012-ALT2-LOAD-WP-35(NOVA OFF)
138 KV 755L (RED DEER 63S TO PIPER CREEK 247S) OUTAGE
TUE, MAR 01 2011 16:34

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-356



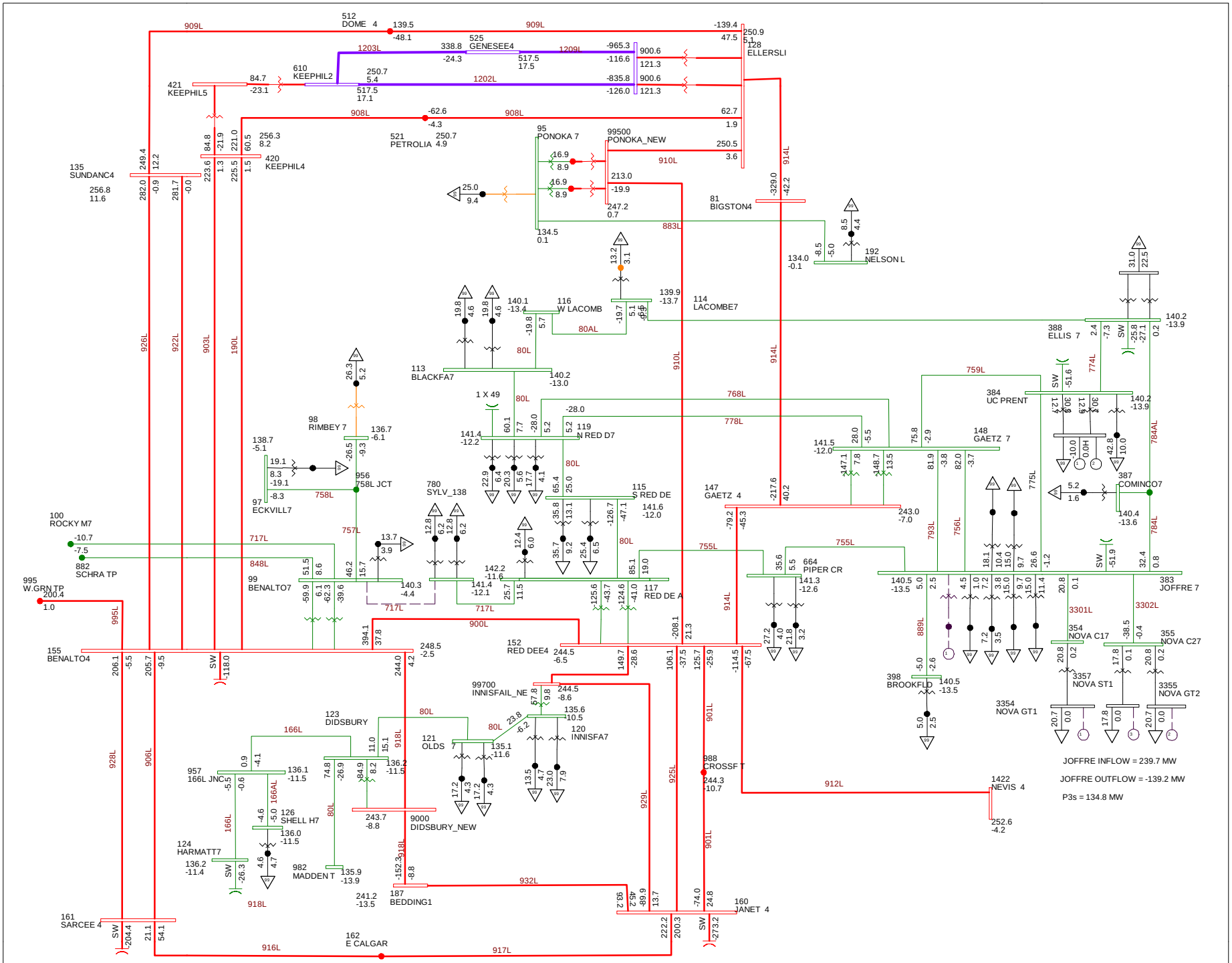
RED DEER REGION STUDY

2012 WINTER PEAK BASE CASE REVISION 6.5

FIG 2012-ALT2-LOAD-WP-36(NOVA OFF)
138 KV 755L (JOFFRE 535S TO PIPER CREEK 247S) OUTAGE
TUE, MAR 01 2011 16:34

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-357

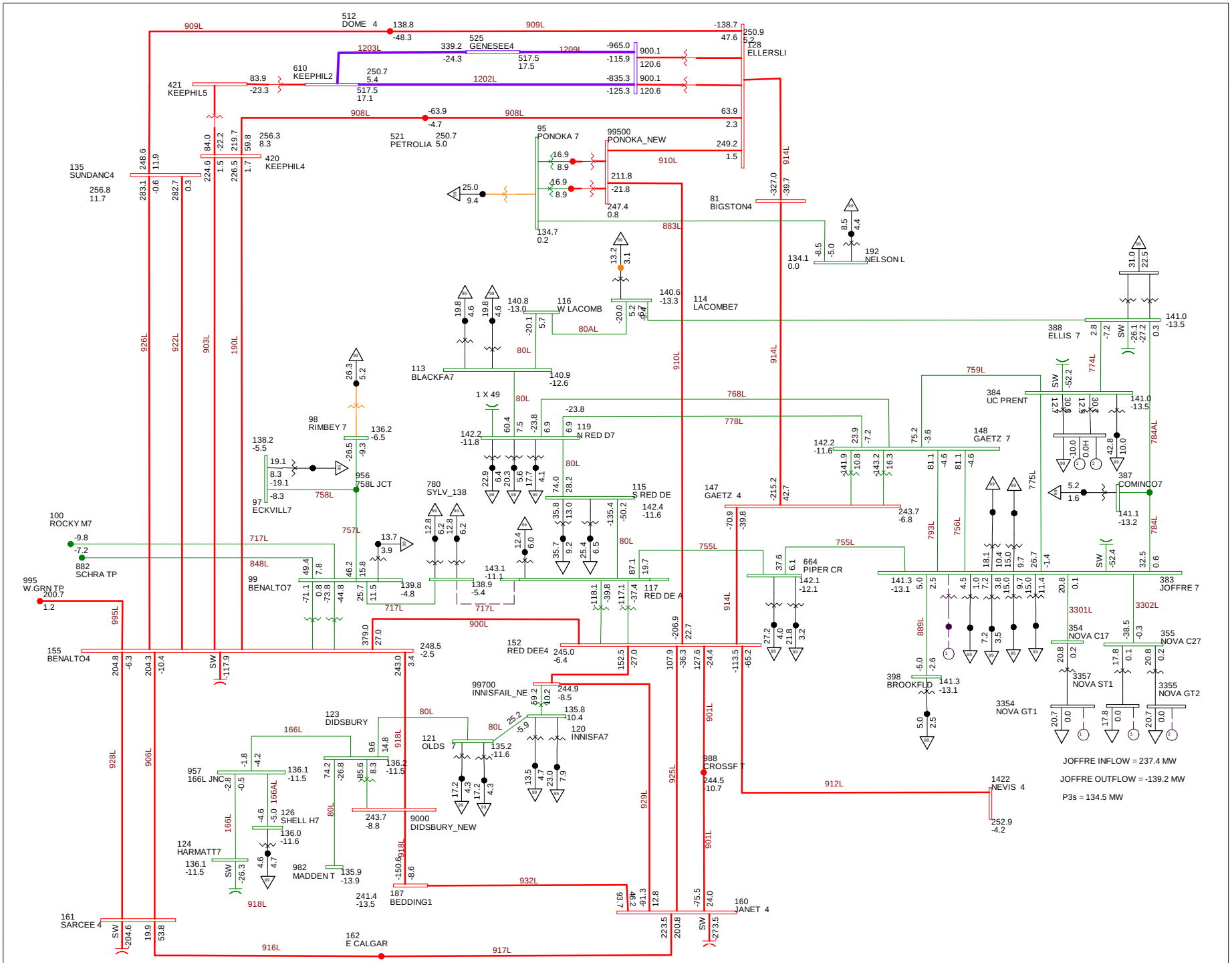


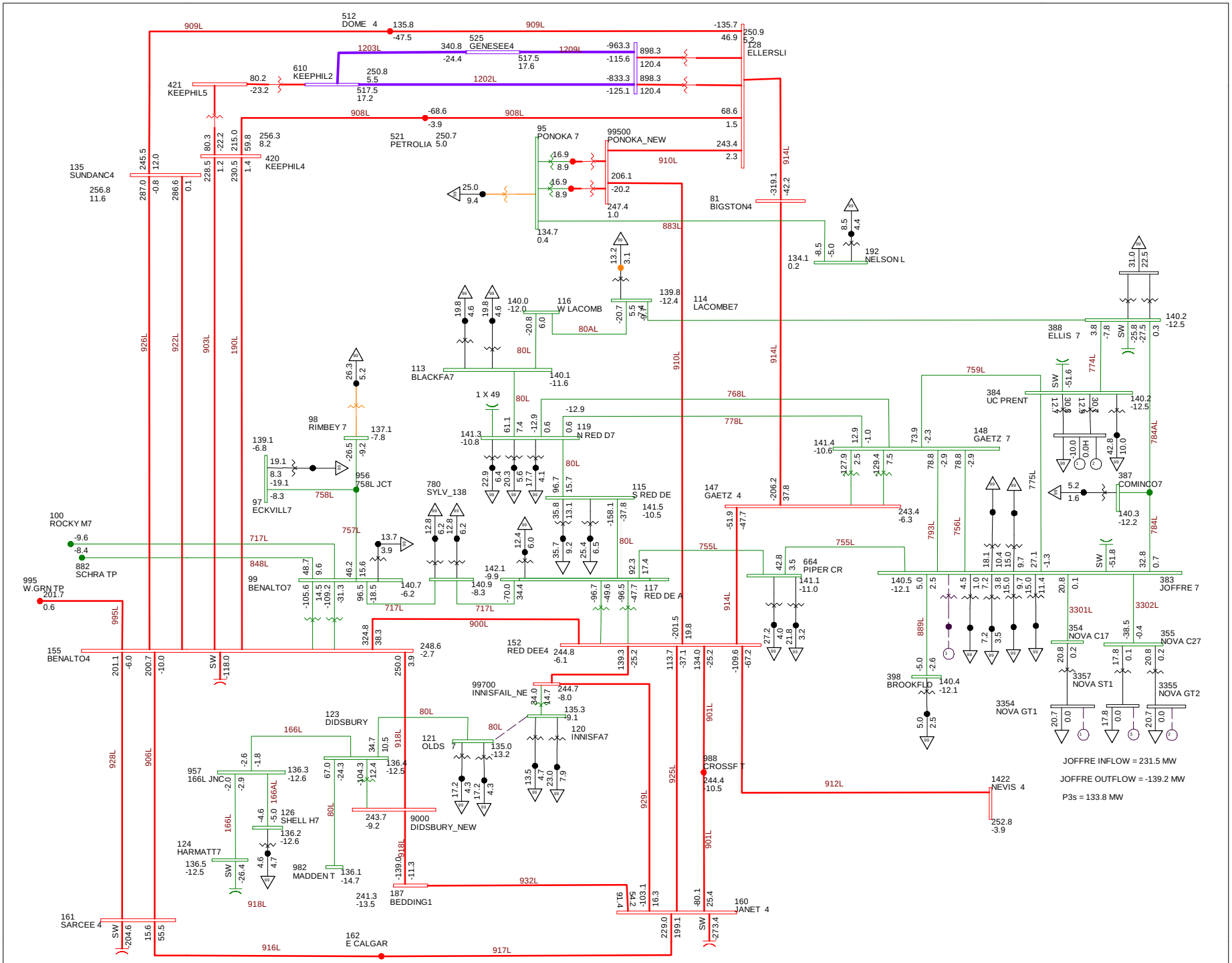
RED DEER REGION STUDY

2012 WINTER PEAK BASE CASE REVISION 6.5

FIG 2012-ALT2-LOAD-WP-37(NOVA OFF)
138 KV 717L (BENALTO 17S TO SYLVAN LAKE 580S) OUTAGE
TUE, MAR 01 2011 16:34

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512
DOME 4
138.8
-48.3
909L
-138.7
47.6
250.9
5.2
128
ELLERSLI
525
GENESEE4
339.2
-24.3
1203L
517.5
17.5
1209L
-965.0
-115.9
900.1
120.6
610
KEEPHIL2
250.7
5.4
517.5
17.1
1202L
-835.3
-125.3
900.1
120.6
421
KEEPHIL5
83.9
-23.3
908L
-63.9
-4.7
908L
63.9
2.3
521
PETROLIA
250.7
5.0
95
PONOKA 7
99500
PONOKA_NEW
249.2
1.5
910L
914L
16.9
8.9
16.9
8.9
211.8
-21.8
247.4
0.8
134.7
0.2
883L
-327.0
-39.7
81
BIGSTON4
25.0
9.4
135
SUNDANC4
256.8
11.7
248.6
11.9
283.1
-0.6
282.7
0.3
84.0
-22.2
224.6
1.5
219.7
59.8
256.3
8.3
226.5
1.7
420
KEEPHIL4
926L
922L
903L
190L
134.1
0.0
8.5
-5.0
8.5
4.4
192
NELSON L
13.2
3.1
140.6
-13.3
114
LACOMBE7
140.8
-13.0
116
W LACOMB
-20.0
5.2
-20.1
5.7
80AL
19.8
4.6
19.8
4.6
113
BLACKFA7
140.9
-12.6
80L
910L
914L
31.0
22.5
141.0
-13.5
388
ELLIS 7
2.8
-7.2
SW
-26.1
-27.2
0.3
759L
774L
768L
778L
1 X 49
80L
-23.8
142.2
-11.8
60.4
7.5
-23.8
6.9
6.9
119
N RED D7
98
RIMBEY 7
136.2
-6.5
138.2
-5.5
26.5
-9.3
19.1
8.3
-19.1
-8.3
758L
956
758L JCT
97
ECKVILL7
26.3
5.2
22.9
6.4
20.3
5.6
17.7
4.1
74.0
28.2
115
S RED DE
142.4
-11.6
780
SYLV_138
12.8
6.2
12.8
6.2
12.4
6.0
35.8
13.0
35.7
9.2
25.4
6.5
-135.4
-50.2
80L
757L
717L
848L
100
ROCKY M7
-9.8
-7.2
882
SCHRA TP
995
W.GRN TP
200.7
1.2
995L
155
BENALTO4
204.8
-6.3
204.3
-10.4
SW
-117.9
49.4
7.8
46.2
15.8
-71.1
0.8
-73.8
-44.8
25.7
11.5
139.8
-4.8
99
BENALTO7
13.7
3.9
379.0
27.0
248.5
-2.5
243.0
3.4
717L
900L
138.9
-5.4
143.1
-11.1
-118.1
-39.8
-117.1
-37.4
117
RED DE A
87.1
19.7
-206.9
22.7
914L
147
GAETZ 4
-215.2
42.7
-70.9
-39.8
243.7
-6.8
755L
37.6
6.1
664
PIPER CR
142.1
-12.1
27.2
4.0
21.8
3.2
152
RED DEE4
245.0
-6.4
152.5
-27.0
107.9
-36.3
127.6
-24.4
-113.5
-65.2
141.3
-13.1
5.0
2.5
4.5
1.0
7.2
3.8
15.0
9.7
15.0
11.4
20.8
0.1
793L
756L
775L
784L
889L
-5.0
-2.6
398
BROOKFLD
141.3
-13.1
5.0
2.5
SW
-52.4
32.5
0.6
383
JOFFRE 7
3301L
3302L
354
NOVA C17
355
NOVA C27
-38.5
-0.3
20.8
0.2
17.8
0.1
20.8
0.2
3357
NOVA ST1
3355
NOVA GT2
20.7
0.0
17.8
0.0
20.7
0.0
3354
NOVA GT1
JOFFRE INFLOW = 237.4 MW
JOFFRE OUTFLOW = -139.2 MW
P3s = 134.5 MW
99700
INNISFAIL_NE
59.2
10.2
244.9
-8.5
135.8
-10.4
25.2
-5.9
80L
123
DIDSBURY
166L
121
OLDS 7
135.2
-11.6
120
INNISFA7
13.5
4.7
23.0
7.9
17.2
4.3
17.2
4.3
9.6
14.8
918L
901L
925L
929L
988
CROSSFT
244.5
-10.7
912L
1422
NEVIS 4
252.9
-4.2
957
166L JNC
136.1
-11.5
-1.8
-4.2
-2.8
-0.5
166AL
74.2
-26.8
85.6
8.3
136.2
-11.5
126
SHELL H7
136.0
-11.6
-4.6
-5.0
4.6
4.7
124
HARMATT7
136.1
-11.5
SW
-26.3
982
MADDEN T
135.9
-13.9
243.7
-8.8
9000
DIDSBURY_NEW
-150.6
-8.6
928L
906L
918L
932L
187
BEDDING1
241.4
-13.5
92.7
46.2
-91.3
12.8
-75.5
24.0
160
JANET 4
161
SARCEE 4
SW
-204.6
19.9
53.8
162
E CALGAR
916L
917L
223.5
200.8
SW
-273.5
D-2012-359
RED DEER REGION STUDY
2012 WINTER PEAK BASE CASE REVISION 6.5
FIG 2012-ALT2-LOAD-WP-38(NOVA OFF)
138 KV 717L (RED DEER 63S TO SYLVAN LAKE 580S) OUTAGE
TUE, MAR 01 2011 16:34
Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000
<=138.000
>500.000
<=34.500
<=240.000
<=500.000



RED DEER REGION STUDY

2012 WINTER PEAK BASE CASE REVISION 6.5

FIG 2012-ALT2-LOAD-WP-39(NOVA OFF)
138 KV 80L (INNISFAIL 214S TO OLDS 55S) OUTAGE
TUE, MAR 01 2011 16:34

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

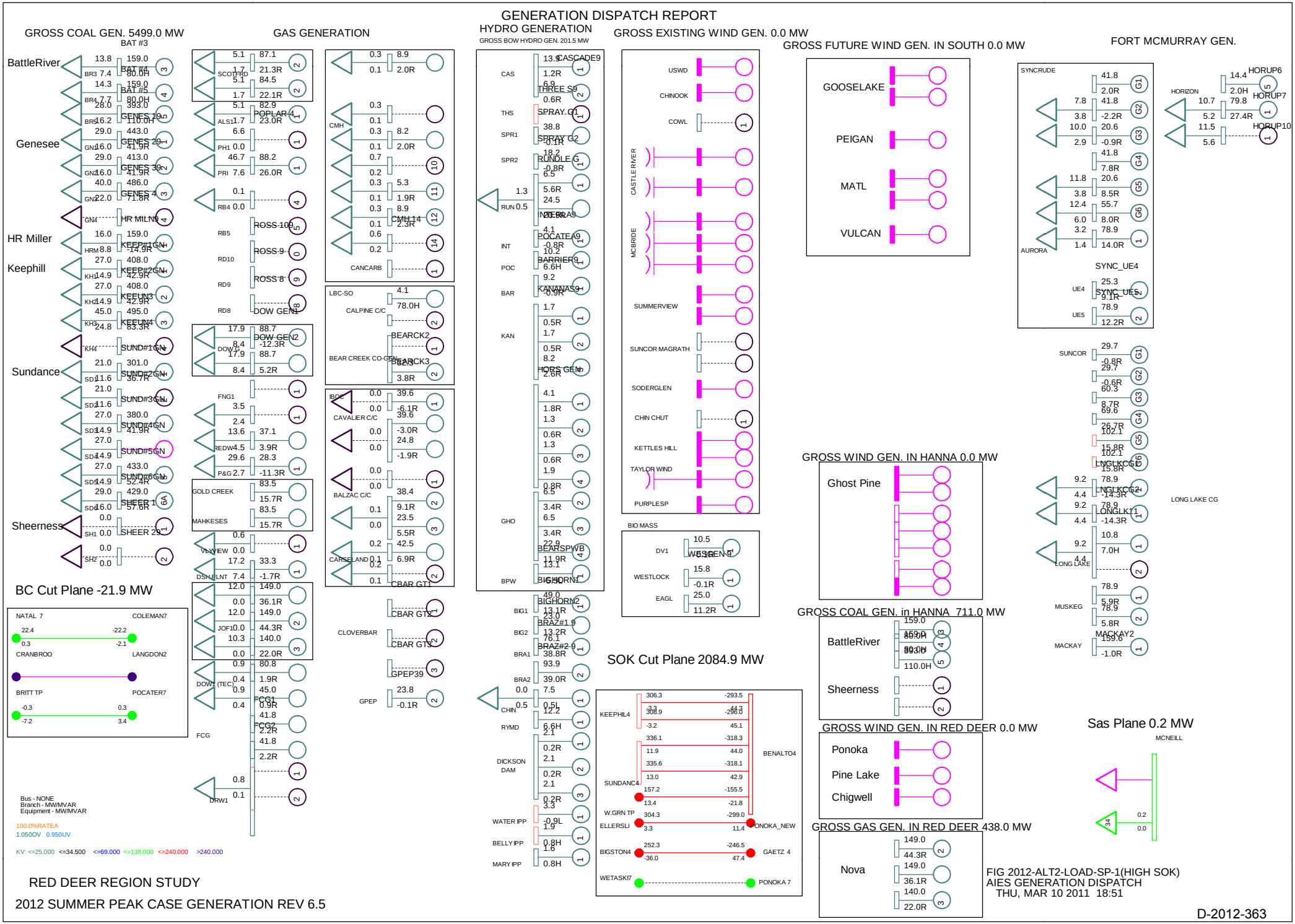
D-2012-360

Table D-2012-6: Summary of 2012 Load Adequacy Power Flow Analysis - Alternative 2 (SP with High SOK Plane)

Figure No.	Contingency	Overloaded Element	Percent Overload	Other System Performance Concerns
Summer Peak				
Fig 2012-Alt2-Load-SP-1(High SOK)	AIES Generation Dispatch	N/A	N/A	N/A
Fig 2012-Alt2-Load-SP-2(High SOK)	All Elements in Service	None	N/A	None
Fig 2012-Alt2-Load-SP-3(High SOK)	500kV 1202L (Ellerslie 89S to Keephills 320P)	None	N/A	None
Fig 2012-Alt2-Load-SP-4(High SOK)	500kV 1209L (Ellerslie 89S to Genesee E330P)	None	N/A	None
Fig 2012-Alt2-Load-SP-5(High SOK)	500kV 1203L (Genesee E330P to Keephills 320P)	None	N/A	None
Fig 2012-Alt2-Load-SP-6(High SOK)	240kV 914L (Ellerslie 89S to Bigstone 86S)	None	N/A	None
Fig 2012-Alt2-Load-SP-7(High SOK)	240kV 914L (Bigstone 86S to Gaetz 87S)	None	N/A	None
Fig 2012-Alt2-Load-SP-8(High SOK)	240kV 910L (Ellerslie 89S to Ponoka 331S)	None	N/A	None
Fig 2012-Alt2-Load-SP-9(High SOK)	240kV 910L (Ponoka 331S to Red Deer 63S)	None	N/A	None
Fig 2012-Alt2-Load-SP-10(High SOK)	240kV 914L (Gaetz 87S to Red Deer 63S)	None	N/A	None
Fig 2012-Alt2-Load-SP-11(High SOK)	240kV 900L (Red Deer 63S to Benalto 17S)	None	N/A	None
Fig 2012-Alt2-Load-SP-12(High SOK)	240kV 925L (Red Deer 63S to Janet 74S)	None	N/A	None
Fig 2012-Alt2-Load-SP-13(High SOK)	240kV 901L (Red Deer 63S to Crossfield 64S)	None	N/A	None
Fig 2012-Alt2-Load-SP-14(High SOK)	240kV 912L (Red Deer 63S to Nevis 766S)	None	N/A	None
Fig 2012-Alt2-Load-SP-15(High SOK)	240 kV 926/922L (Sundance 310P to Benalto 17S)	None	N/A	None
Fig 2012-Alt2-Load-SP-16(High SOK)	240kV 190/903L (Keephills 320P to Benalto 17S)	None	N/A	None
Fig 2012-Alt2-Load-SP-17(High SOK)	240 kV 995L (Amoco Willesden Green 68S to Benalto 17S)	None	N/A	None
Fig 2012-Alt2-Load-SP-18(High SOK)	240 kV 906/928L (Benalto 17S to Sarcee 42S)	None	N/A	None
Fig 2012-Alt2-Load-SP-19(High SOK)	240 kV 918L (Benalto 17S to Didsbury Sub. (152S)	None	N/A	None
Fig 2012-Alt2-Load-SP-20(High SOK)	240 kV 918L (Didsbury Sub. (152S) to Beddington 162S)	None	N/A	None
Fig 2012-Alt2-Load-SP-21(High SOK)	240 kV 929L (Red Deer 63S to Innisfail 214S)	None	N/A	None
Fig 2012-Alt2-Load-SP-22(High SOK)	240 kV 929L (Innisfail 214S to Janet 74S)	None	N/A	None
Fig 2012-Alt2-Load-SP-23(High SOK)	240/138kV Transformer at Ponoka 313S	None	N/A	None
Fig 2012-Alt2-Load-SP-24(High SOK)	240/138kV Transformer at Gaetz 87S	None	N/A	None
Fig 2012-Alt2-Load-SP-25(High SOK)	240/138kV Transformer at Red Deer 63S	None	N/A	None

Figure No.	Contingency	Overloaded Element	Percent Overload	Other System Performance Concerns
Fig 2012-Alt2-Load-SP-26(High SOK)	240/138kV Transformer at Benalto 17S	None	N/A	None
Fig 2012-Alt2-Load-SP-27(High SOK)	240/138kV Transformer at Didsbury Sub. (152S)	None	N/A	None
Fig 2012-Alt2-Load-SP-28(High SOK)	240/138kV Transformer at Innisfail 214S	None	N/A	None
Fig 2012-Alt2-Load-SP-29(High SOK)	138 kV 80L (W. Lacombe 958S to Blackfalds 198S)	None	N/A	None
Fig 2012-Alt2-Load-SP-30(High SOK)	138 kV 80L (Blackfalds 198S to N. Red Deer 217S)	None	N/A	None
Fig 2012-Alt2-Load-SP-31(High SOK)	138 kV 80L (N. Red Deer 217S to S. Red Deer 194S)	None	N/A	None
Fig 2012-Alt2-Load-SP-32(High SOK)	138 kV 768L (N. Red Deer 217S to Gaetz 87S)	None	N/A	None
Fig 2012-Alt2-Load-SP-33(High SOK)	138 kV 793/756L (Gaetz 87S to Joffre 535S)	None	N/A	None
Fig 2012-Alt2-Load-SP-34(High SOK)	138 kV 80L (S. Red Deer 194S to Red Deer 63S)	None	N/A	None
Fig 2012-Alt2-Load-SP-35(High SOK)	138 kV 755L (Red Deer 63S to Piper Creek 247S)	None	N/A	None
Fig 2012-Alt2-Load-SP-36(High SOK)	138 kV 755L (Joffre 535S to Piper Creek 247S)	None	N/A	None
Fig 2012-Alt2-Load-SP-37(High SOK)	138 kV 717L (Benalto 17S to Sylvan Lake 580S)	None	N/A	None
Fig 2012-Alt2-Load-SP-38(High SOK)	138 kV 717L (Red Deer 63S to Sylvan Lake 580S)	None	N/A	None
Fig 2012-Alt2-Load-SP-39(High SOK)	138 kV 80L (Innisfail 214S To Olds 55S)	None	N/A	None

GENERATION DISPATCH REPORT

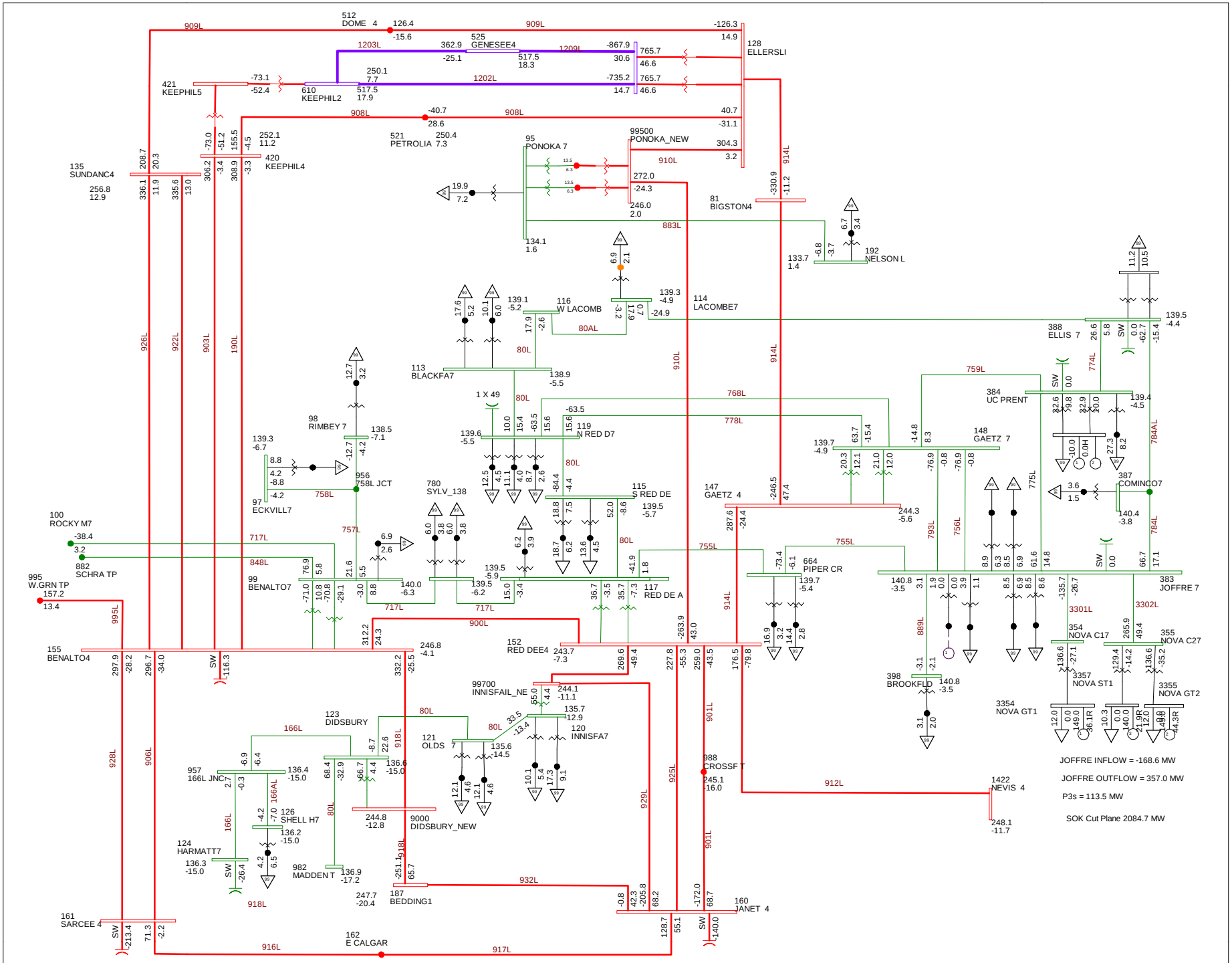


RED DEER REGION STUDY

2012 SUMMER PEAK CASE GENERATION REV 6.5

FIG 2012-ALT2-LOAD-SP-1(HIGH SOK)
AIES GENERATION DISPATCH
THU, MAR 10 2011 18:51

D-2012-363

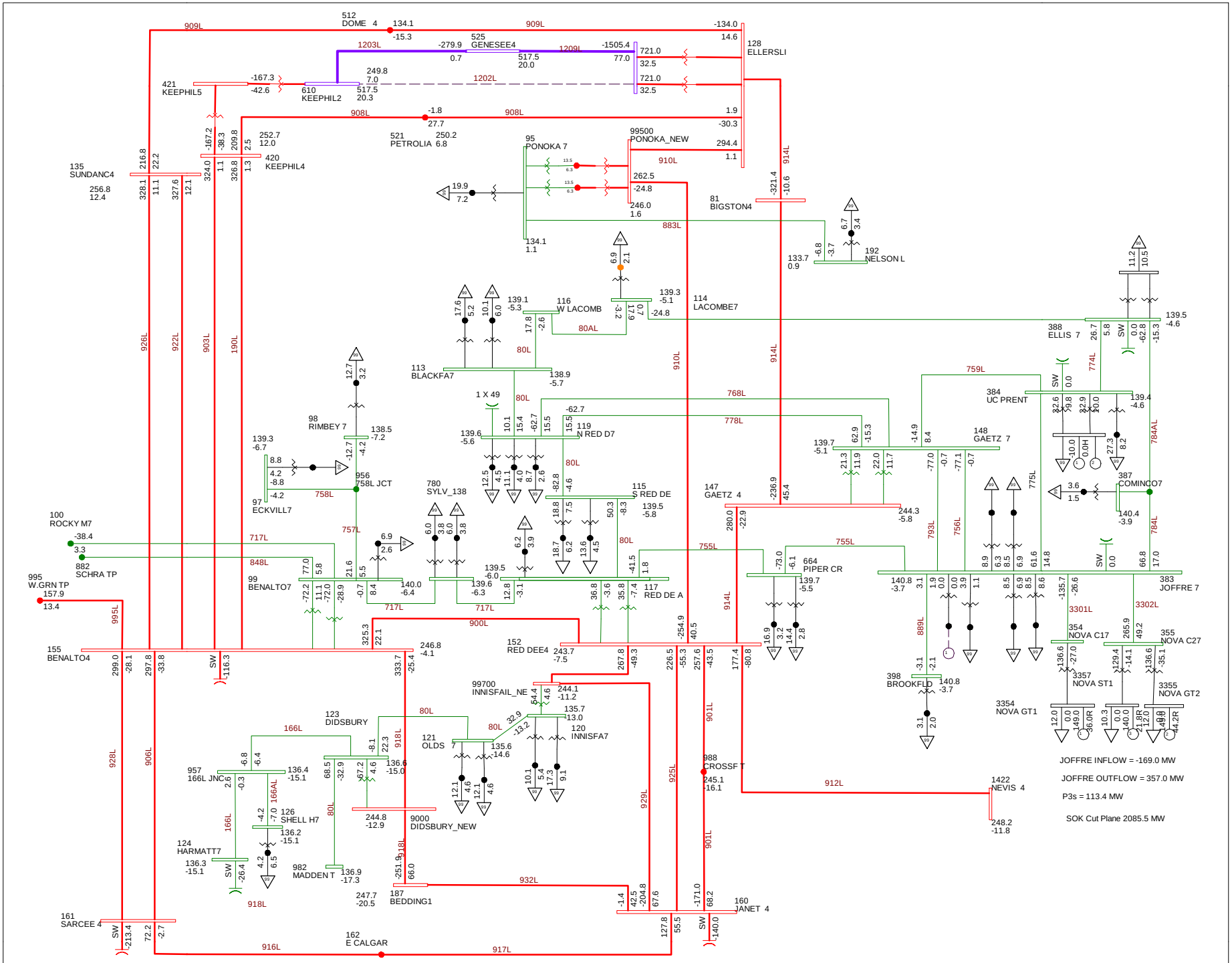


RED DEER REGION STUDY
2012 S3_SOK_PK (2012 SUMMER PEAK CASE)

FIG 2012-ALT2-LOAD-SP-2(HIGH SOK)
ALL ELEMENTS IN SERVICE
TUE, MAR 01 2011 16:49

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-364

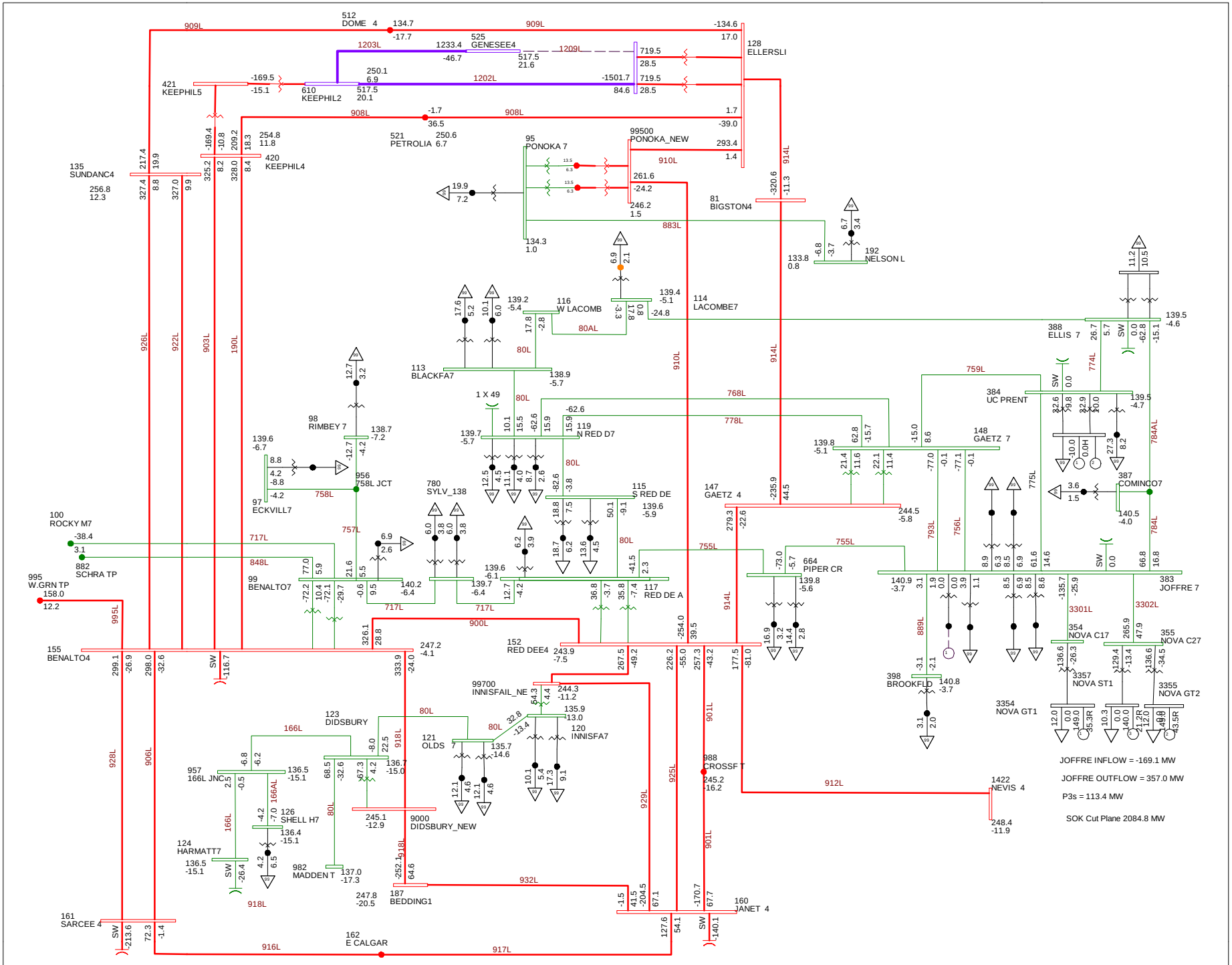


RED DEER REGION STUDY
2012 S3_SOK_PK (2012 SUMMER PEAK CASE)

FIG 2012-ALT2-LOAD-SP-3(HIGH SOK)
500KV 1202L (ELLERSLIE 89S TO KEEPHILLS 320P) OUTAGE
TUE, MAR 01 2011 16:49

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-365

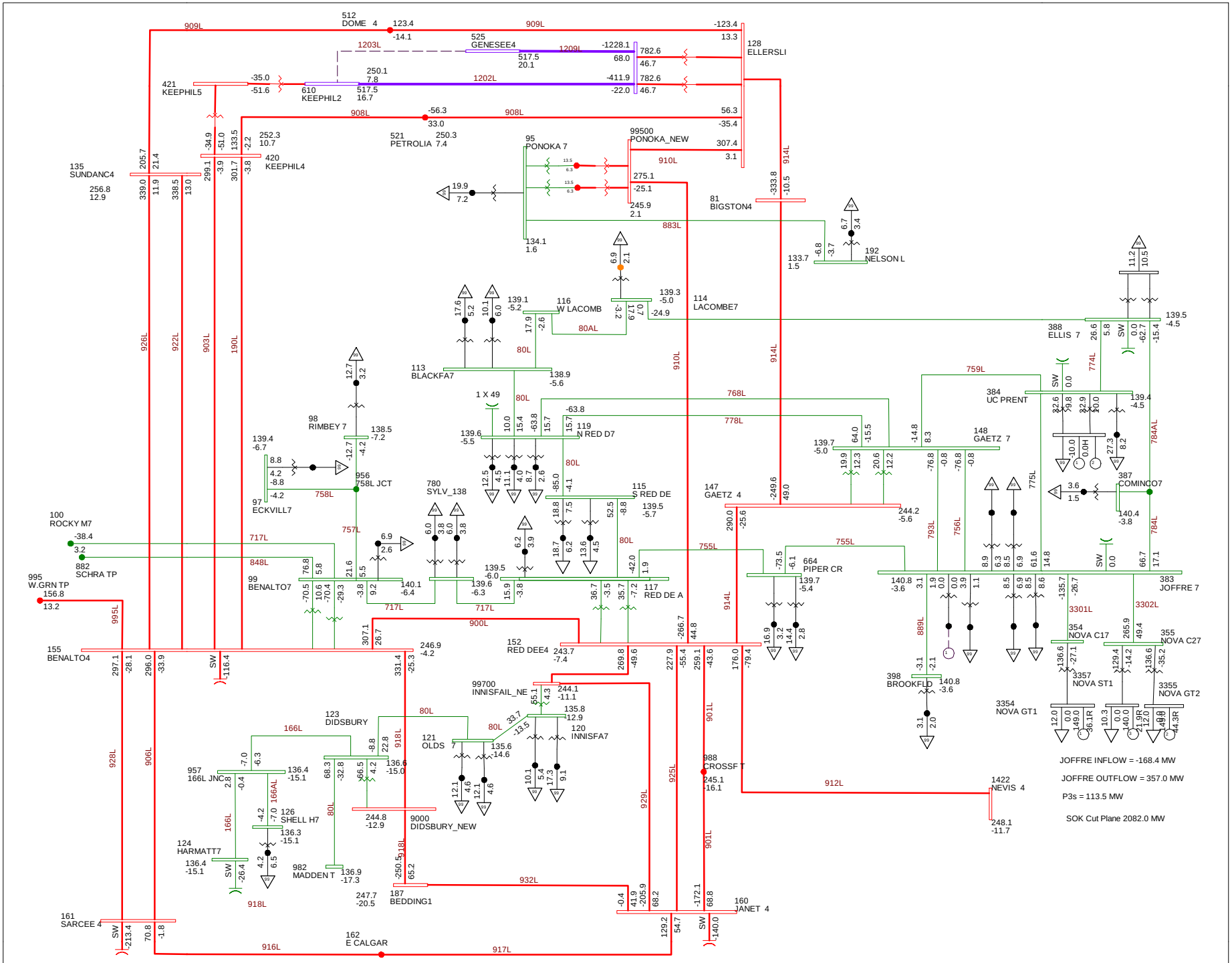


RED DEER REGION STUDY
2012 S3_SOK_PK (2012 SUMMER PEAK CASE)

FIG 2012-ALT2-LOAD-SP-4(HIGH SOK)
500KV 1209L (ELLERSLIE 89S TO GENESEE E330P) OUTAGE
TUE, MAR 01 2011 16:49

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-366

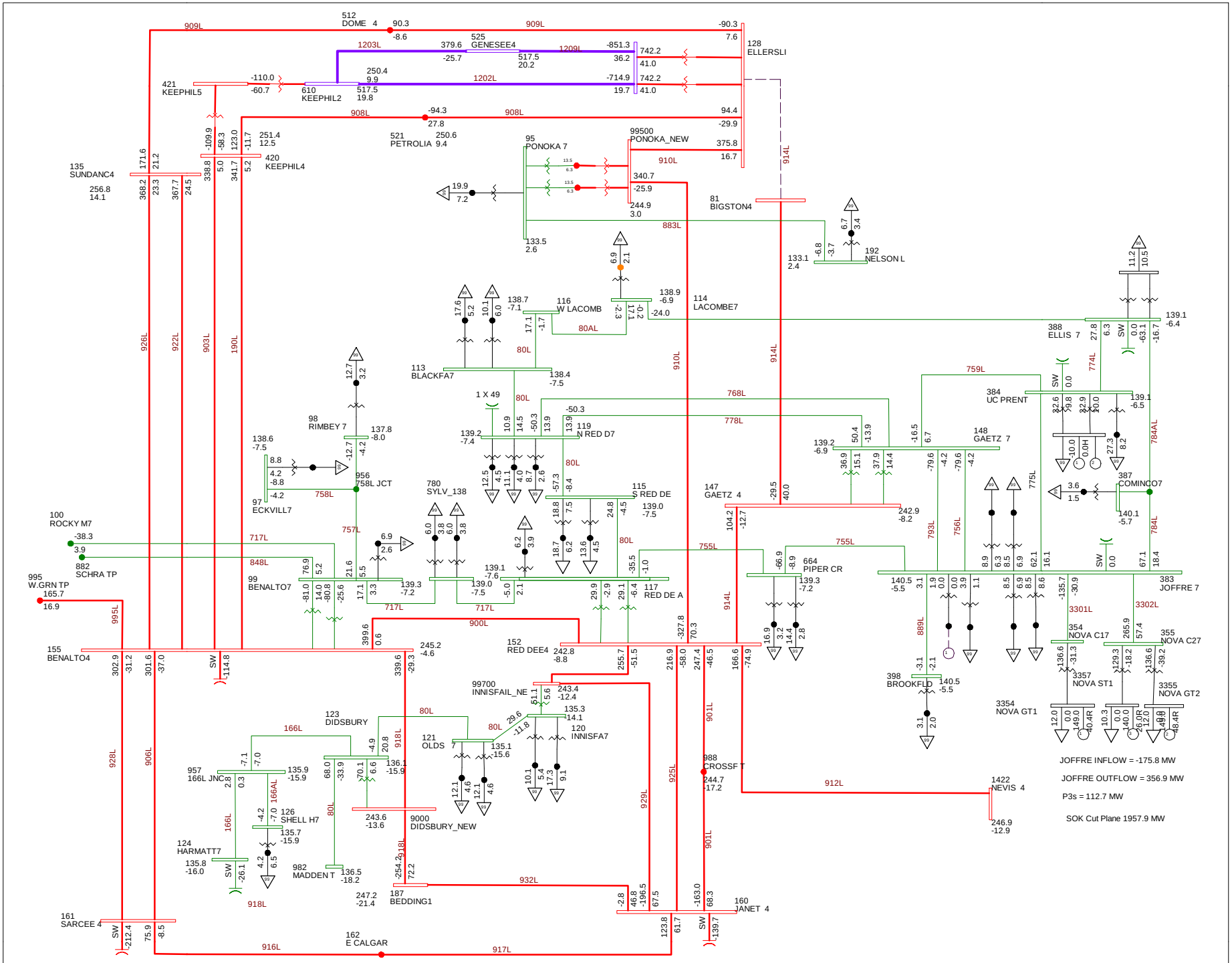


RED DEER REGION STUDY
2012 S3_SOK_PK (2012 SUMMER PEAK CASE)

FIG 2012-ALT2-LOAD-SP-5(HIGH SOK)
500KV 1203L (GENESEE E330P TO KEEPHILLS 320P) OUTAGE
TUE, MAR 01 2011 16:49

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-367

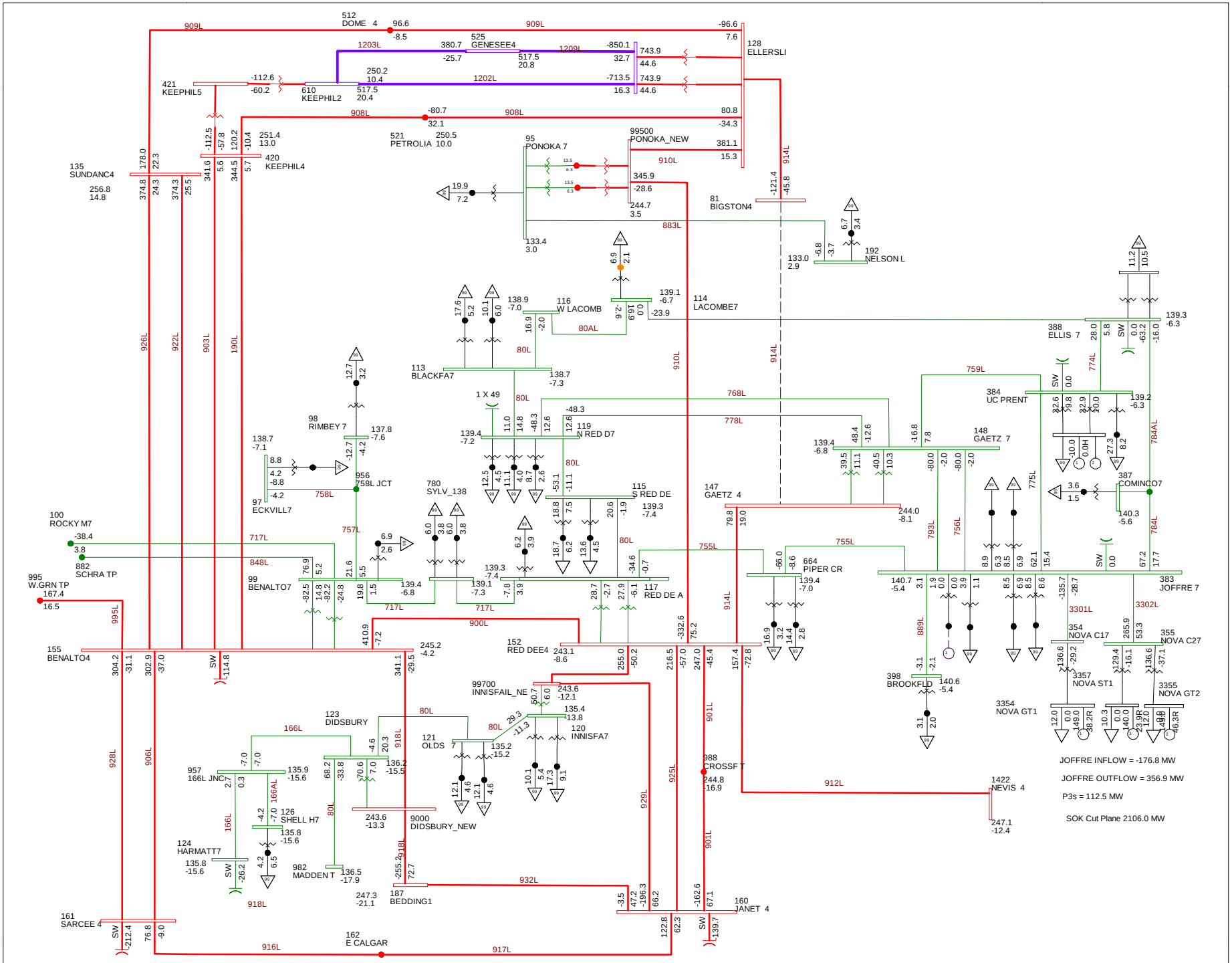


RED DEER REGION STUDY
2012 S3_SOK_PK (2012 SUMMER PEAK CASE)

FIG 2012-ALT2-LOAD-SP-6(HIGH SOK)
240KV 914L (ELLERSLIE 89S TO BIGSTONE 86S) OUTAGE
TUE, MAR 01 2011 16:49

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-368

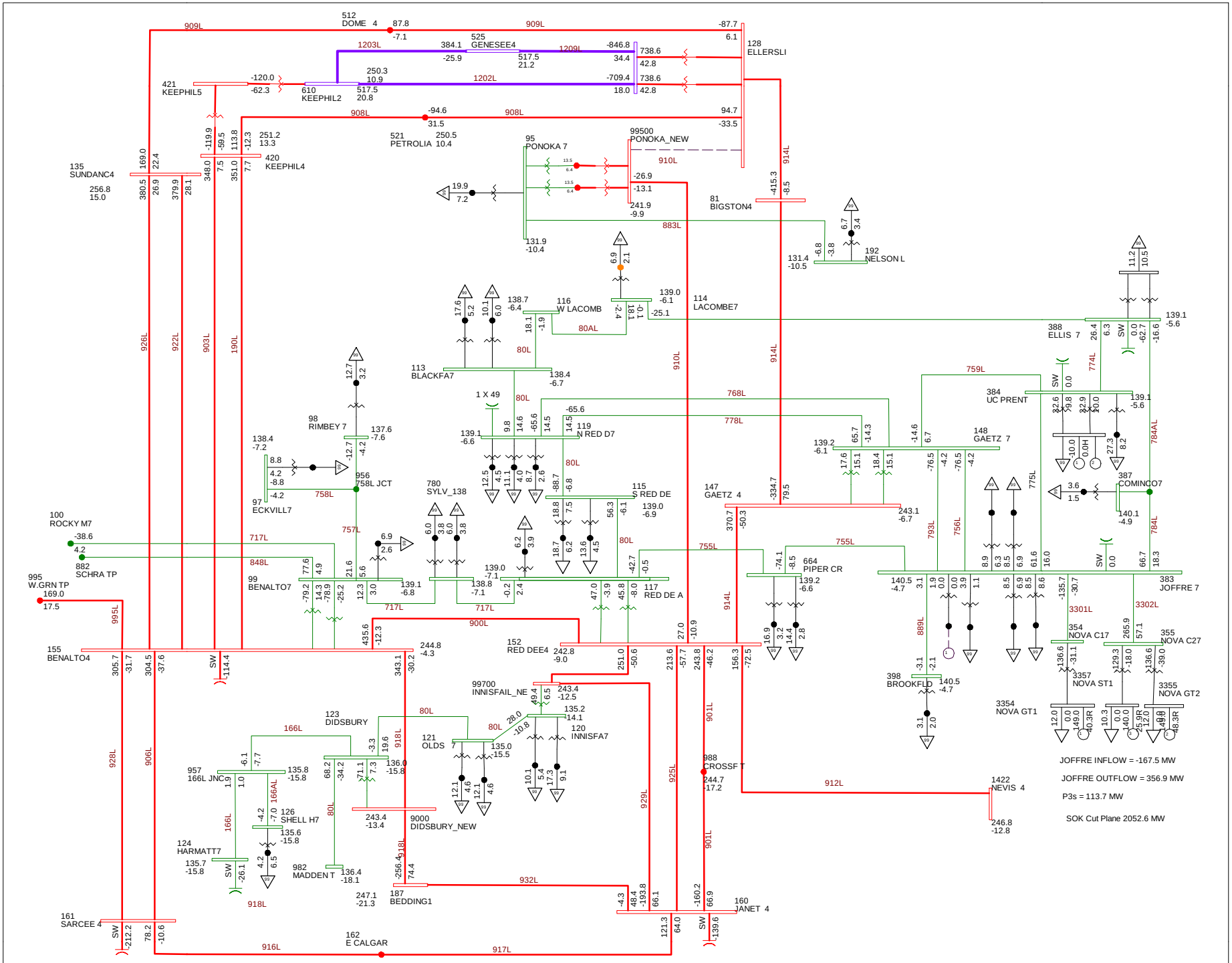


RED DEER REGION STUDY
2012 S3_SOK_PK (2012 SUMMER PEAK CASE)

FIG 2012-ALT2-LOAD-SP-7(HIGH SOK)
240KV 914L (BIGSTONE 86S TO GAETZ 87S) OUTAGE
TUE, MAR 01 2011 16:49

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-369

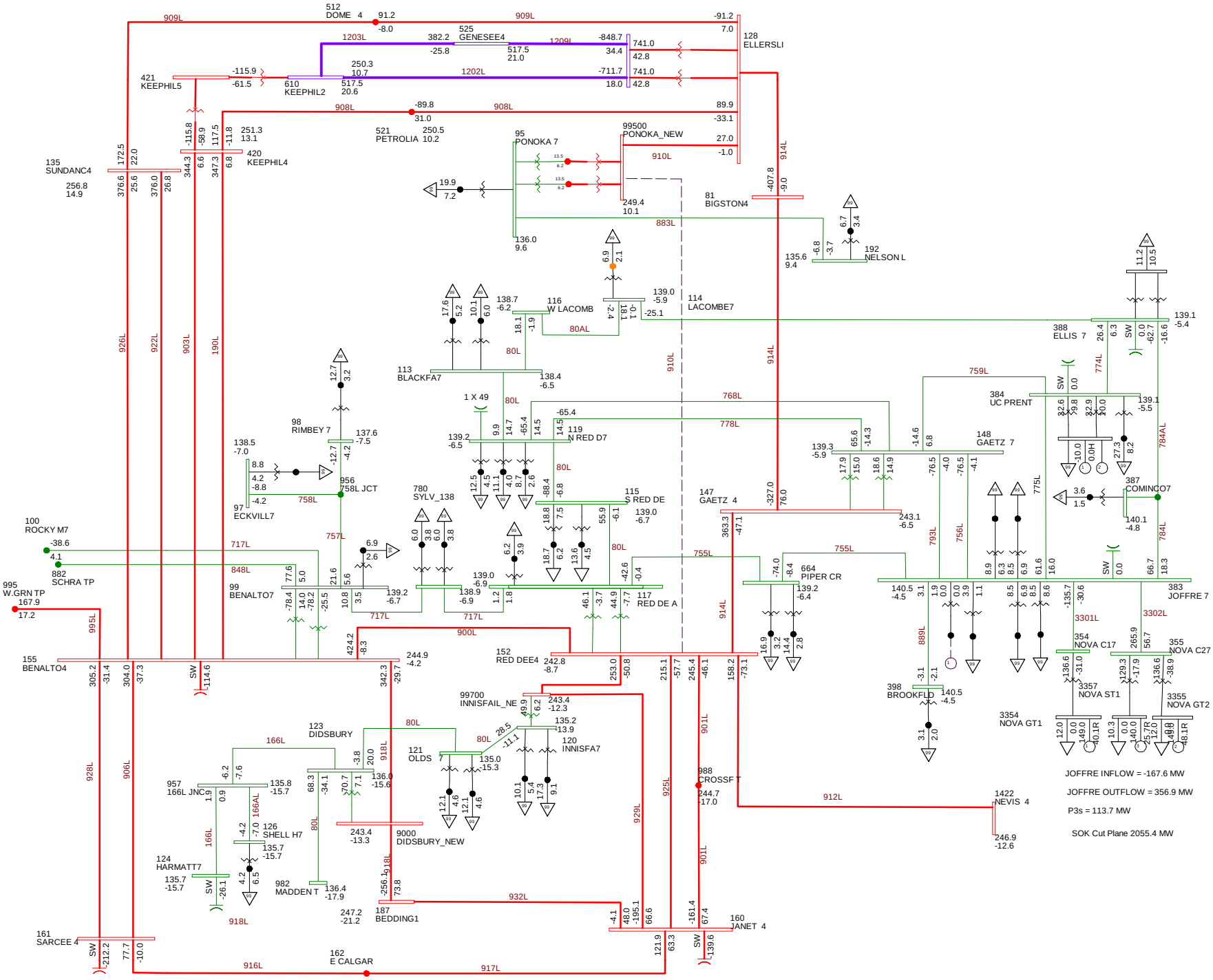


RED DEER REGION STUDY
2012 S3_SOK_PK (2012 SUMMER PEAK CASE)

FIG 2012-ALT2-LOAD-SP-8(HIGH SOK)
240KV 910L (ELLERSLIE 89S TO PONOKA 331S) OUTAGE
TUE, MAR 01 2011 16:49

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-370

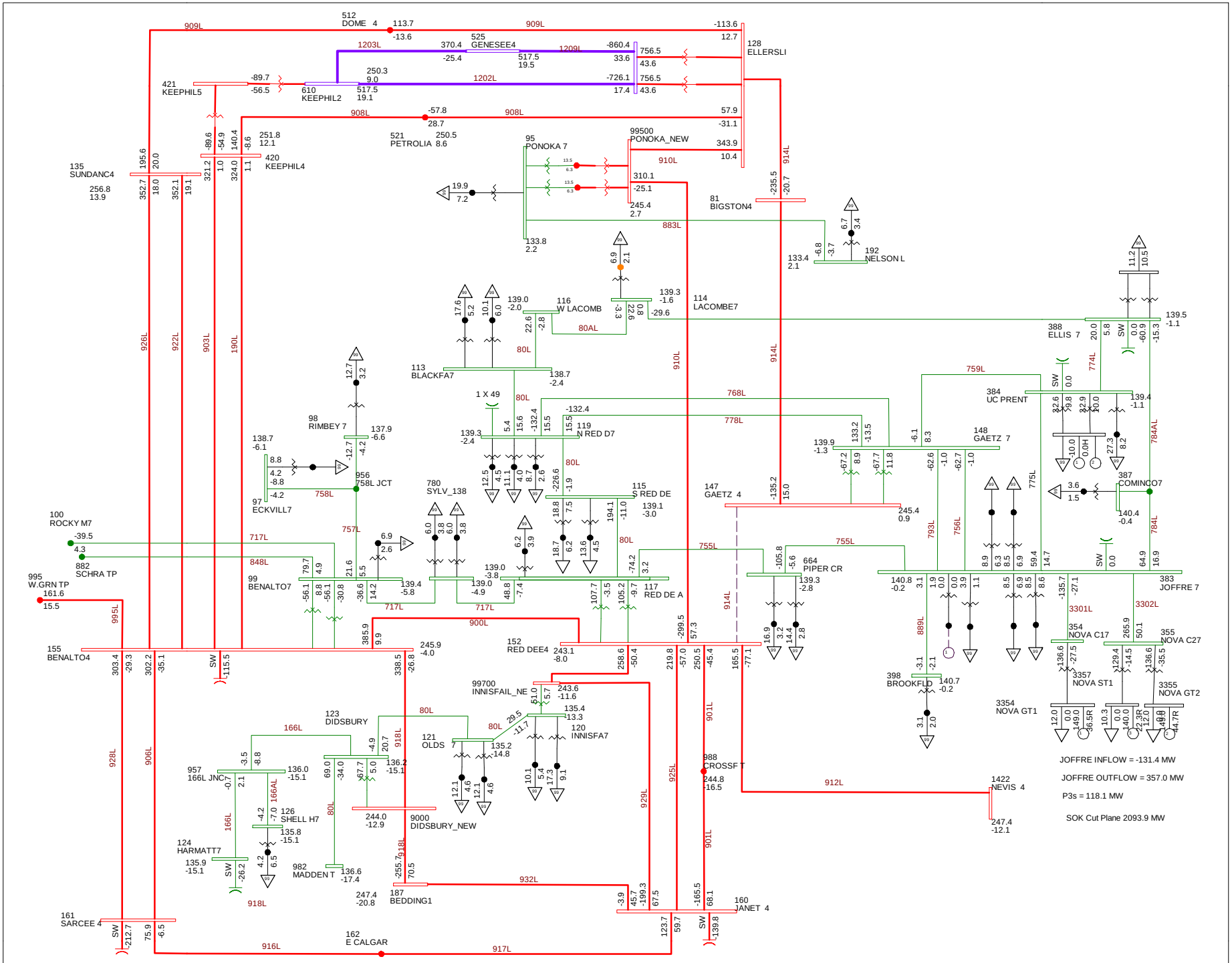


RED DEER REGION STUDY
2012 S3_SOK_PK (2012 SUMMER PEAK CASE)

FIG 2012-ALT2-LOAD-SP-9(HIGH SOK)
240KV 910L (PONOKA 331S TO RED DEER 63S) OUTAGE
TUE, MAR 01 2011 16:49

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-371

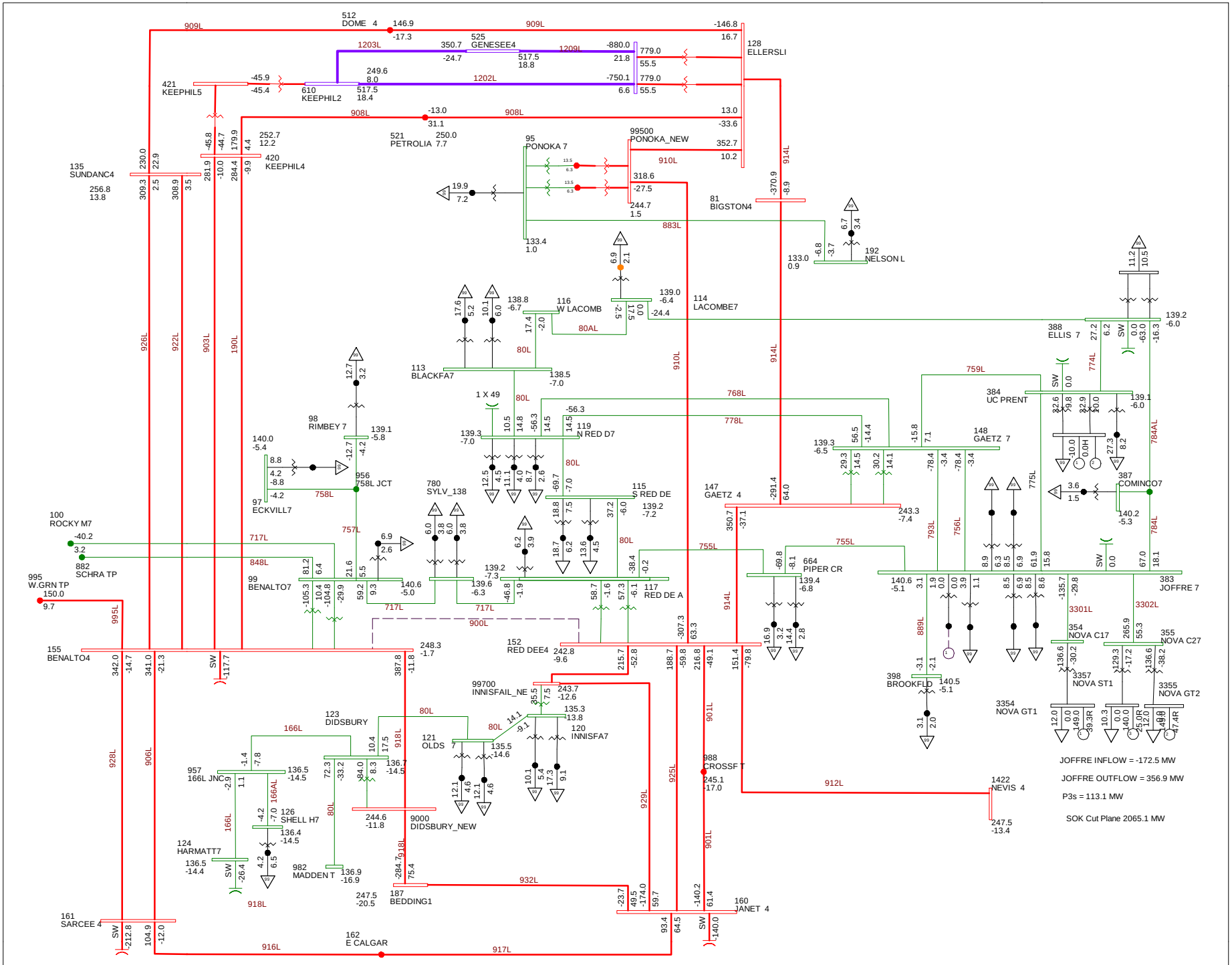


RED DEER REGION STUDY
2012 S3_SOK_PK (2012 SUMMER PEAK CASE)

FIG 2012-ALT2-LOAD-SP-10(HIGH SOK)
240KV 914L (GAETZ 87S TO RED DEER 63S) OUTAGE
TUE, MAR 01 2011 16:49

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-372

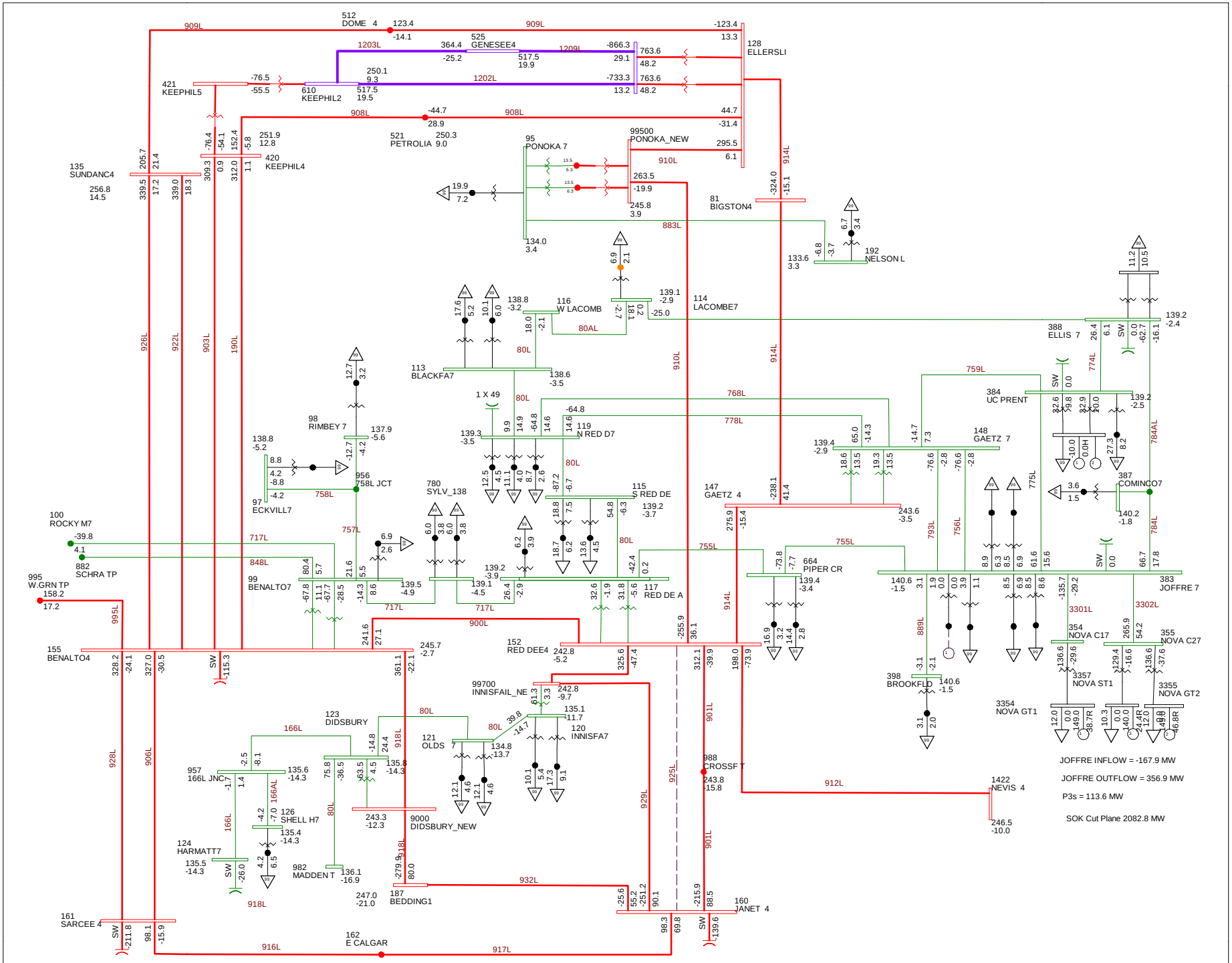


RED DEER REGION STUDY
2012 S3_SOK_PK (2012 SUMMER PEAK CASE)

FIG 2012-ALT2-LOAD-SP-11(HIGH SOK)
240KV 900L (RED DEER 63S TO BENALTO 17S) OUTAGE
TUE, MAR 01 2011 16:49

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-373

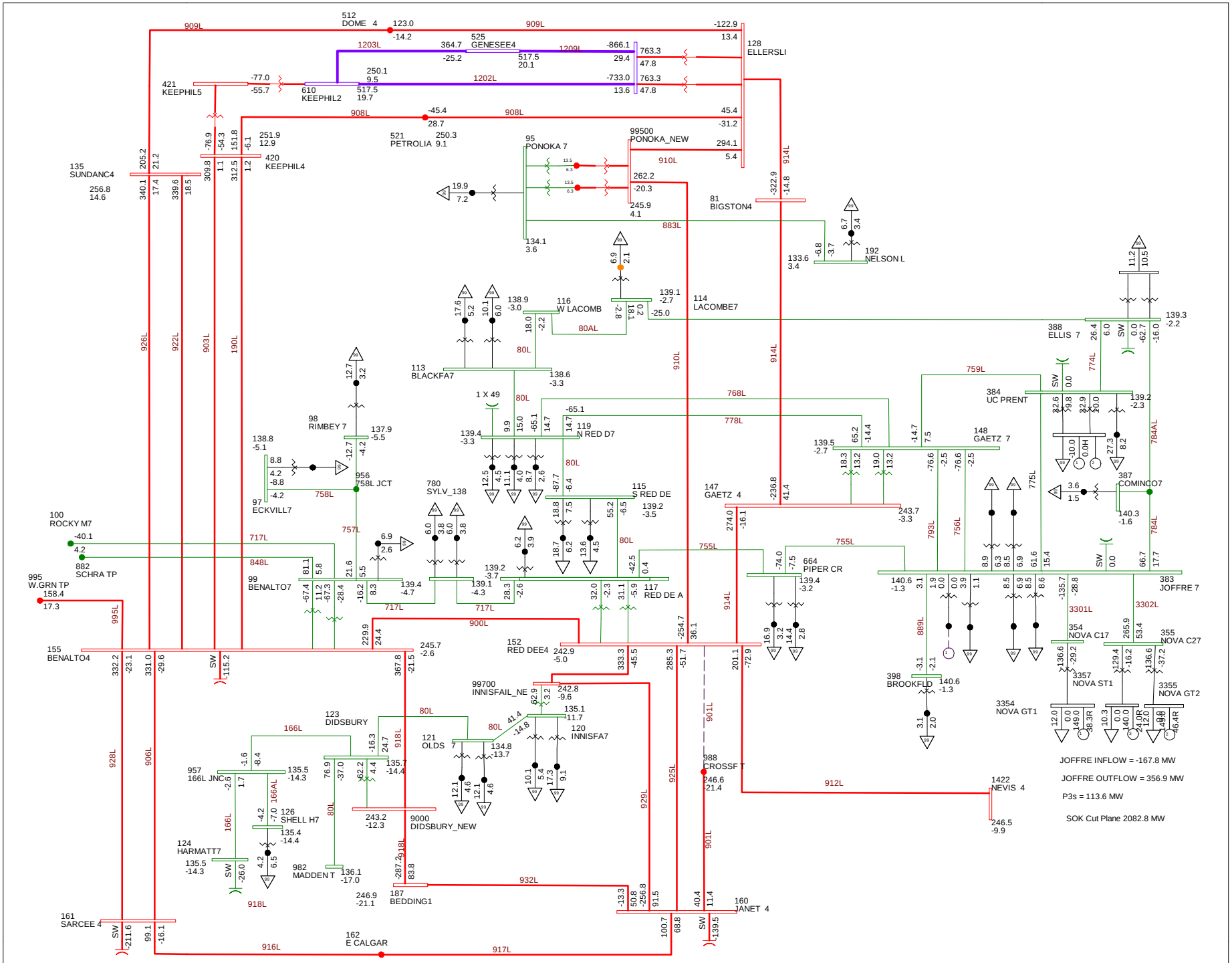


RED DEER REGION STUDY
2012 S3_SOK_PK (2012 SUMMER PEAK CASE)

FIG 2012-ALT2-LOAD-SP-12(HIGH SOK)
240KV 925L (RED DEER 63S TO JANET 74S) OUTAGE
TUE, MAR 01 2011 16:49

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-374

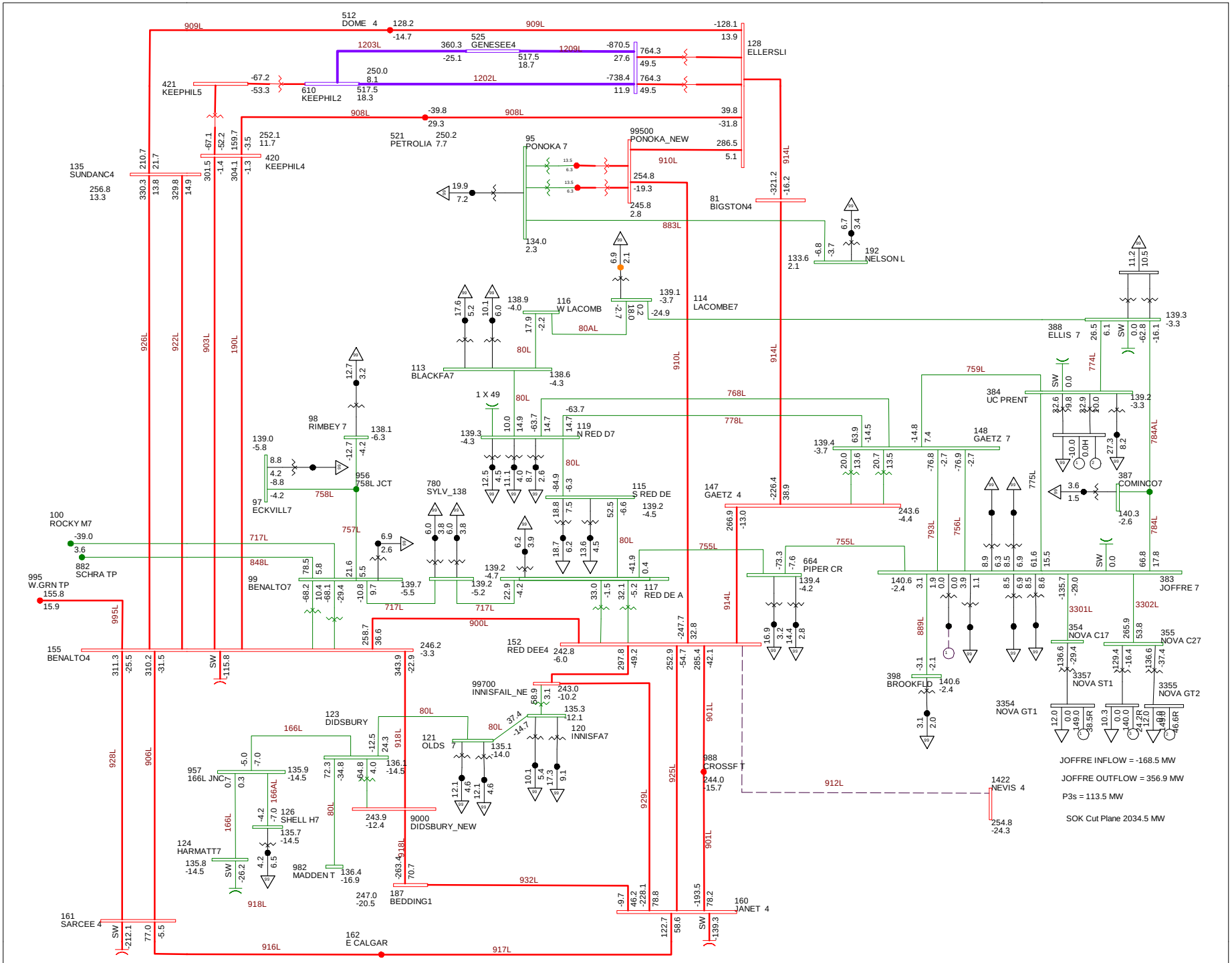


RED DEER REGION STUDY
2012 S3_SOK_PK (2012 SUMMER PEAK CASE)

FIG 2012-ALT2-LOAD-SP-13(HIGH SOK)
240KV 901L (RED DEER 63S TO CROSSFIELD 64S) OUTAGE
TUE, MAR 01 2011 16:49

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-375

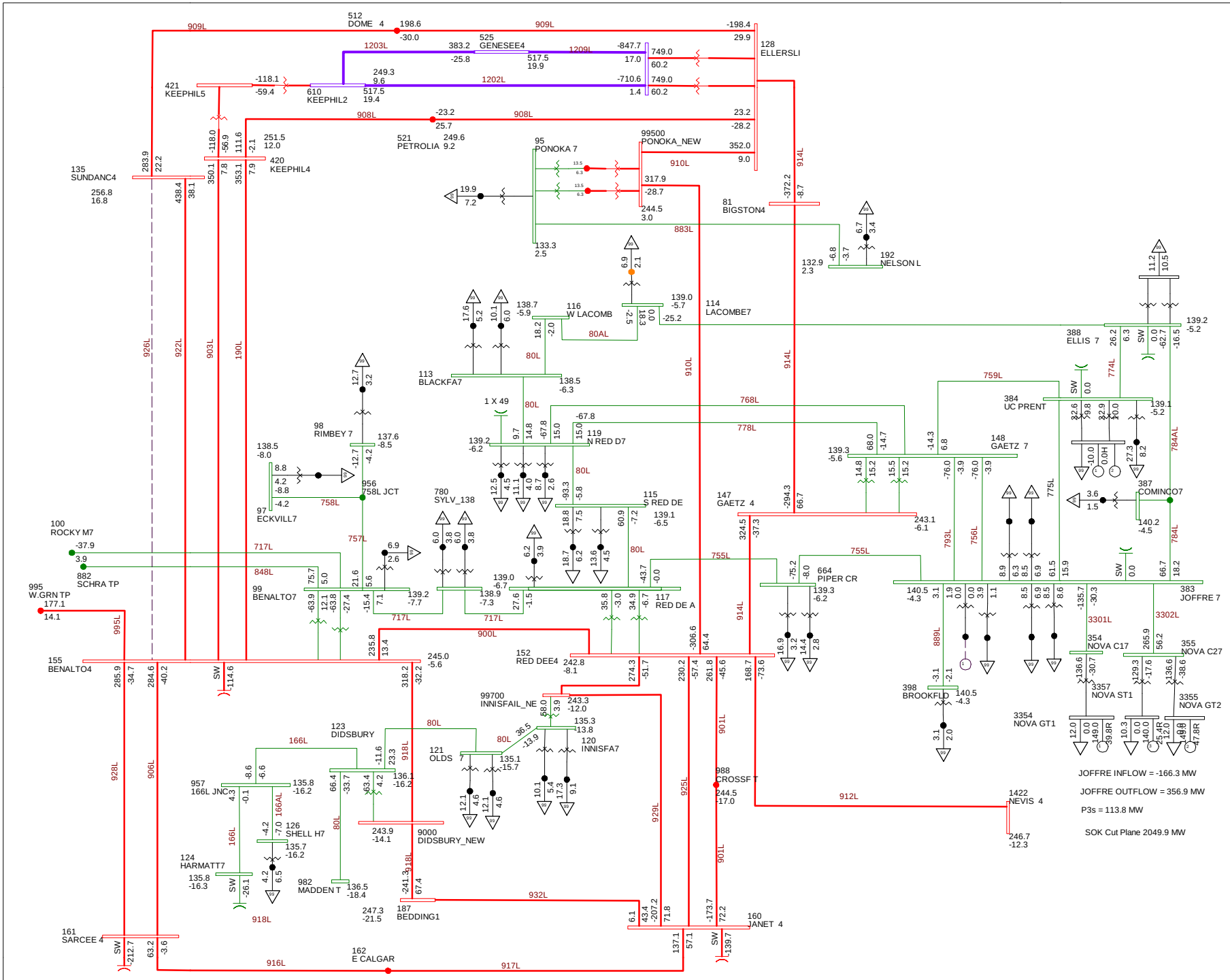


RED DEER REGION STUDY
2012 S3_SOK_PK (2012 SUMMER PEAK CASE)

FIG 2012-ALT2-LOAD-SP-14(HIGH SOK)
240KV 912L (RED DEER 63S TO NEVIS 766S) OUTAGE
TUE, MAR 01 2011 16:49

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-376



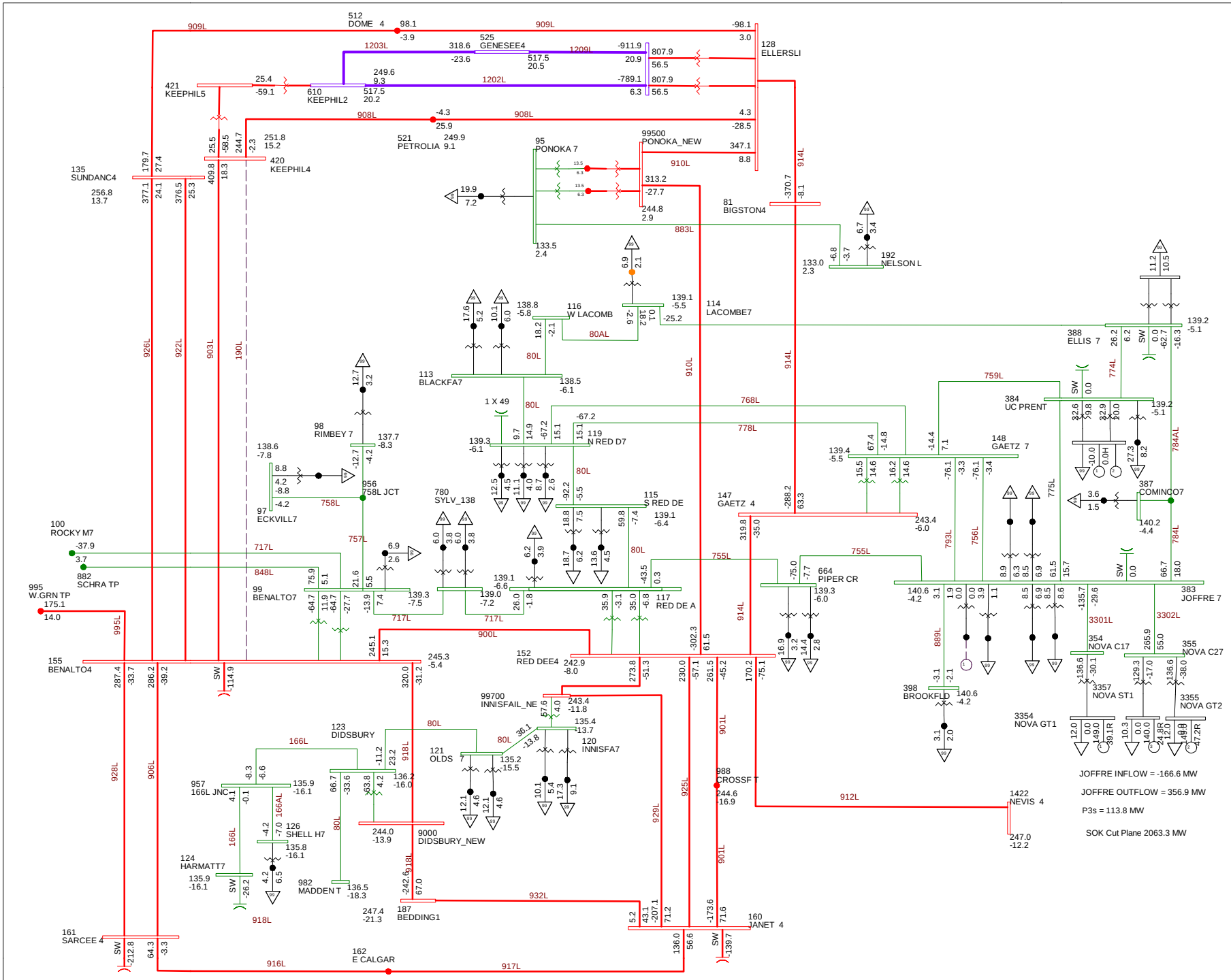
RED DEER REGION STUDY

2012 S3_SOK_PK (2012 SUMMER PEAK CASE)

FIG 2012-ALT2-LOAD-SP-15(HIGH SOK)
240 KV 926/922L (SUNDANCE 310P TO BENALTO 17S) OUTAGE
TUE, MAR 01 2011 16:49

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-377

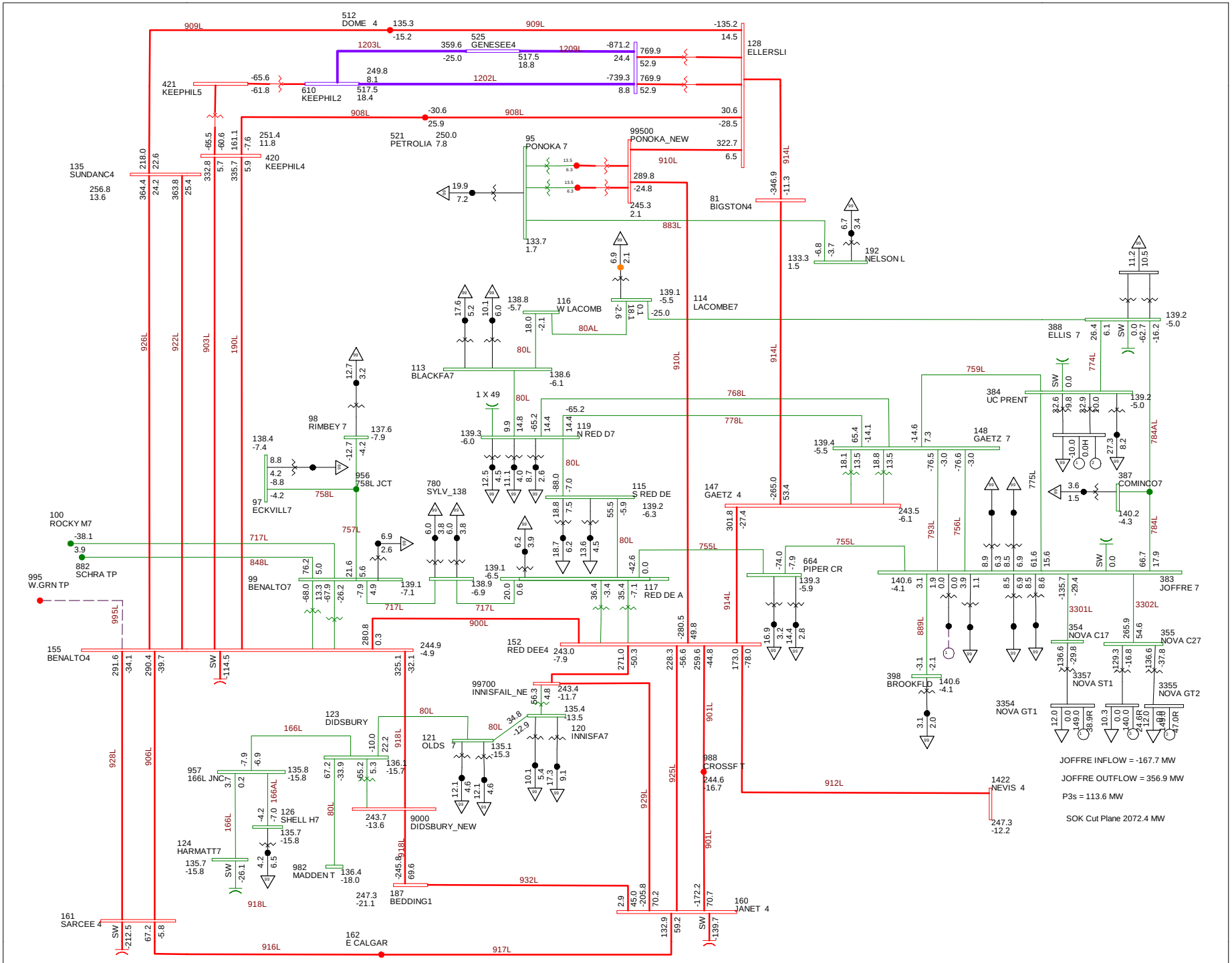


RED DEER REGION STUDY
2012 S3_SOK_PK (2012 SUMMER PEAK CASE)

FIG 2012-ALT2-LOAD-SP-16(HIGH SOK)
240KV 190/903L (KEEPHILLS 320P TO BENALTO 17S) OUTAGE
TUE, MAR 01 2011 16:49

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-378



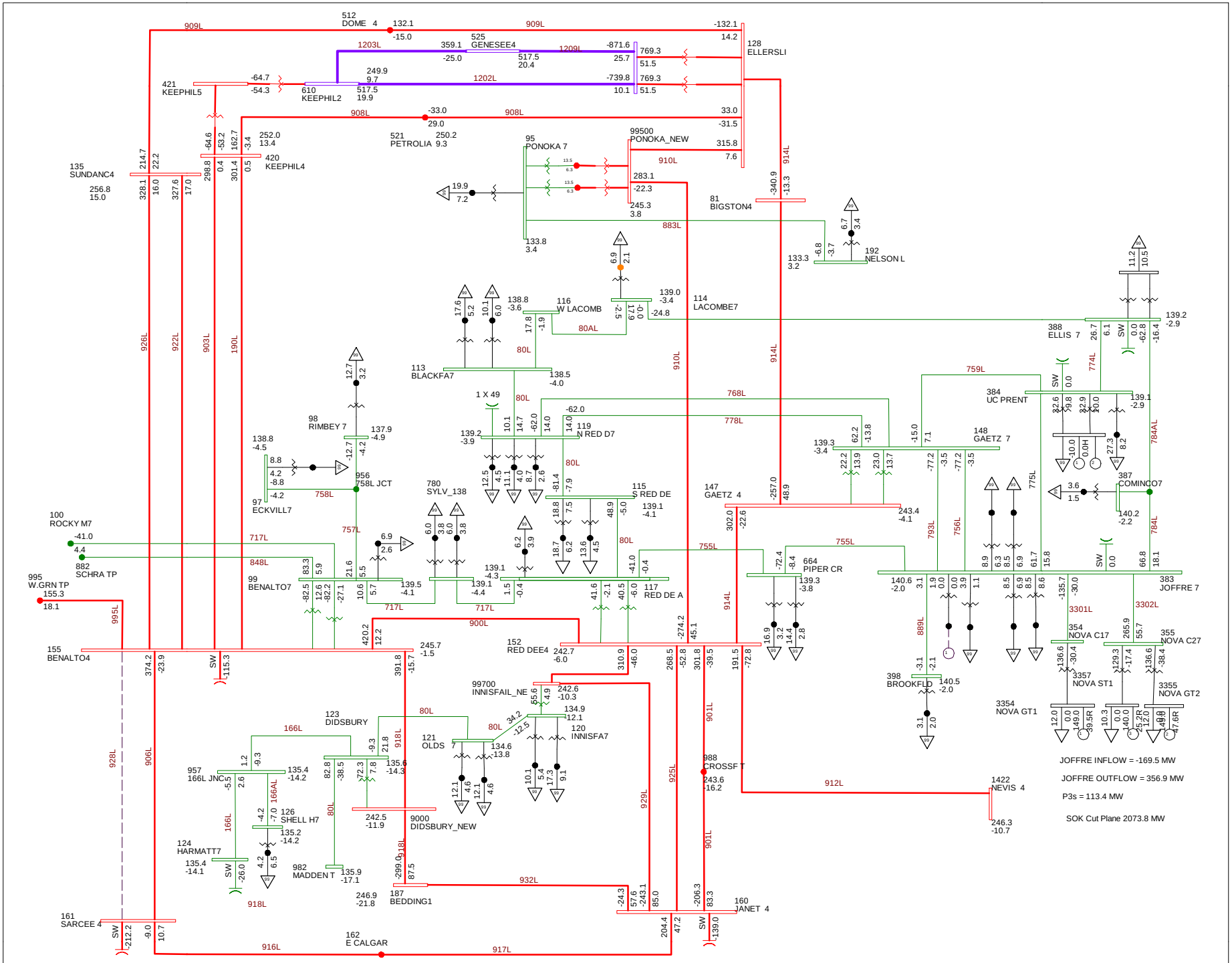
RED DEER REGION STUDY

2012 S3_SOK_PK (2012 SUMMER PEAK CASE)

FIG 2012-ALT2-LOAD-SP-17(HIGH SOK)
240 KV 995L (AMOCO WILLESDEN GREEN 68S TO BENALTO 17S) OUTAG
TUE, MAR 01 2011 16:49

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-379

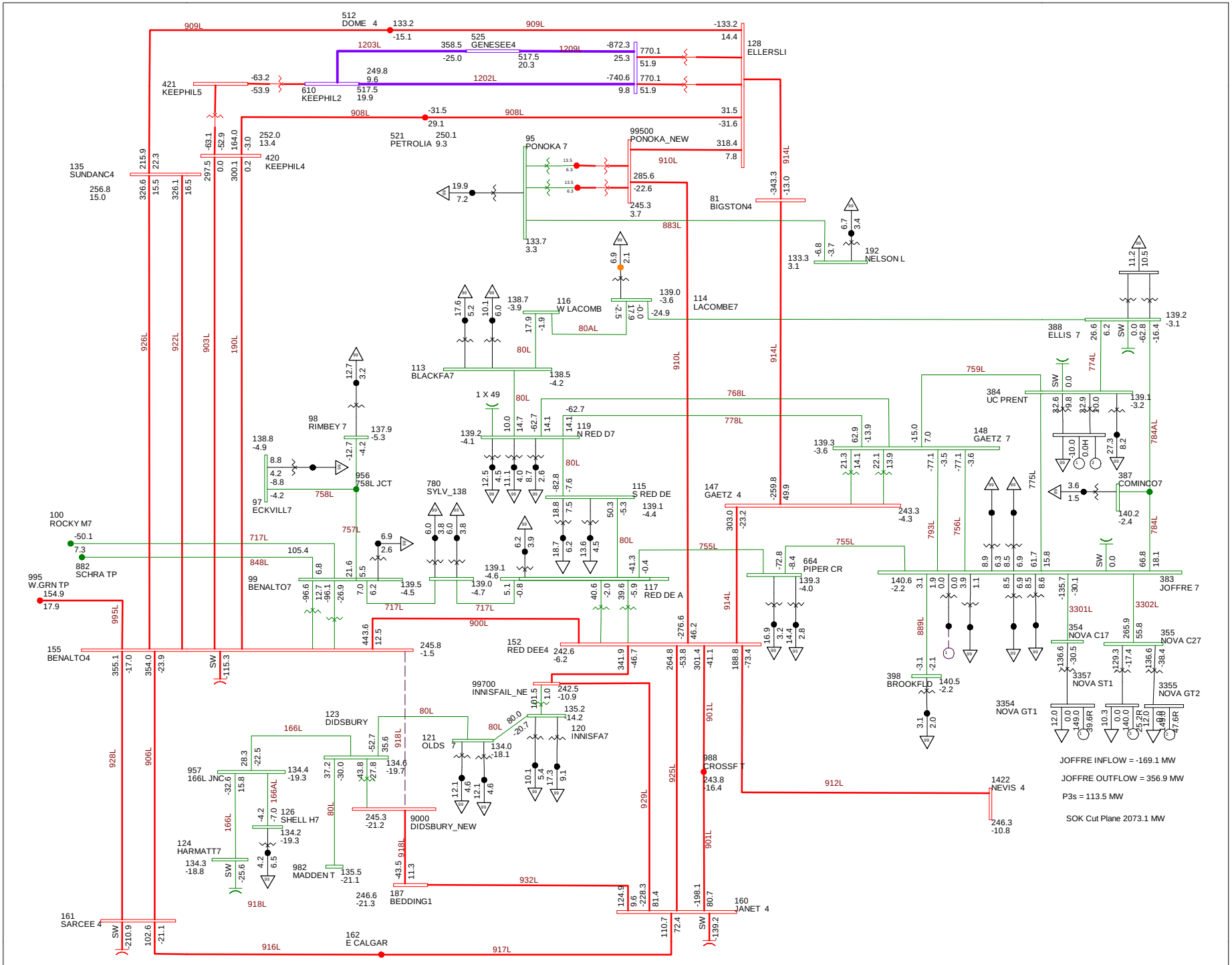


RED DEER REGION STUDY
2012 S3_SOK_PK (2012 SUMMER PEAK CASE)

FIG 2012-ALT2-LOAD-SP-18(HIGH SOK)
240 KV 906/928L (BENALTO 17S TO SARCEE 42S) OUTAGE
TUE, MAR 01 2011 16:49

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-380

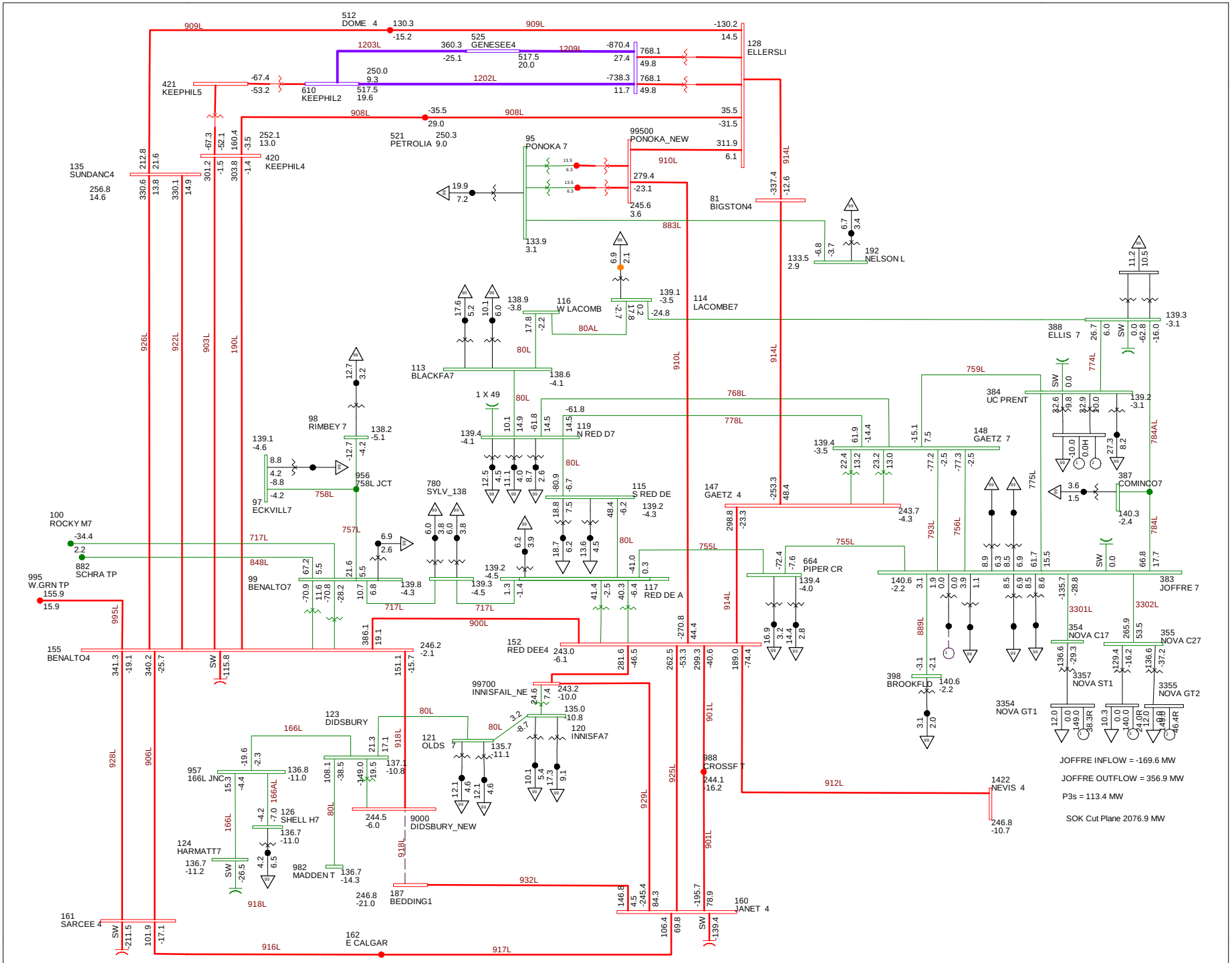


RED DEER REGION STUDY
2012 S3_SOK_PK (2012 SUMMER PEAK CASE)

FIG 2012-ALT2-LOAD-SP-19(HIGH SOK)
240 KV 918L (BENALTO 17S TO DIDSBURY SUB. (152S)) OUTAGE
TUE, MAR 01 2011 16:49

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-381

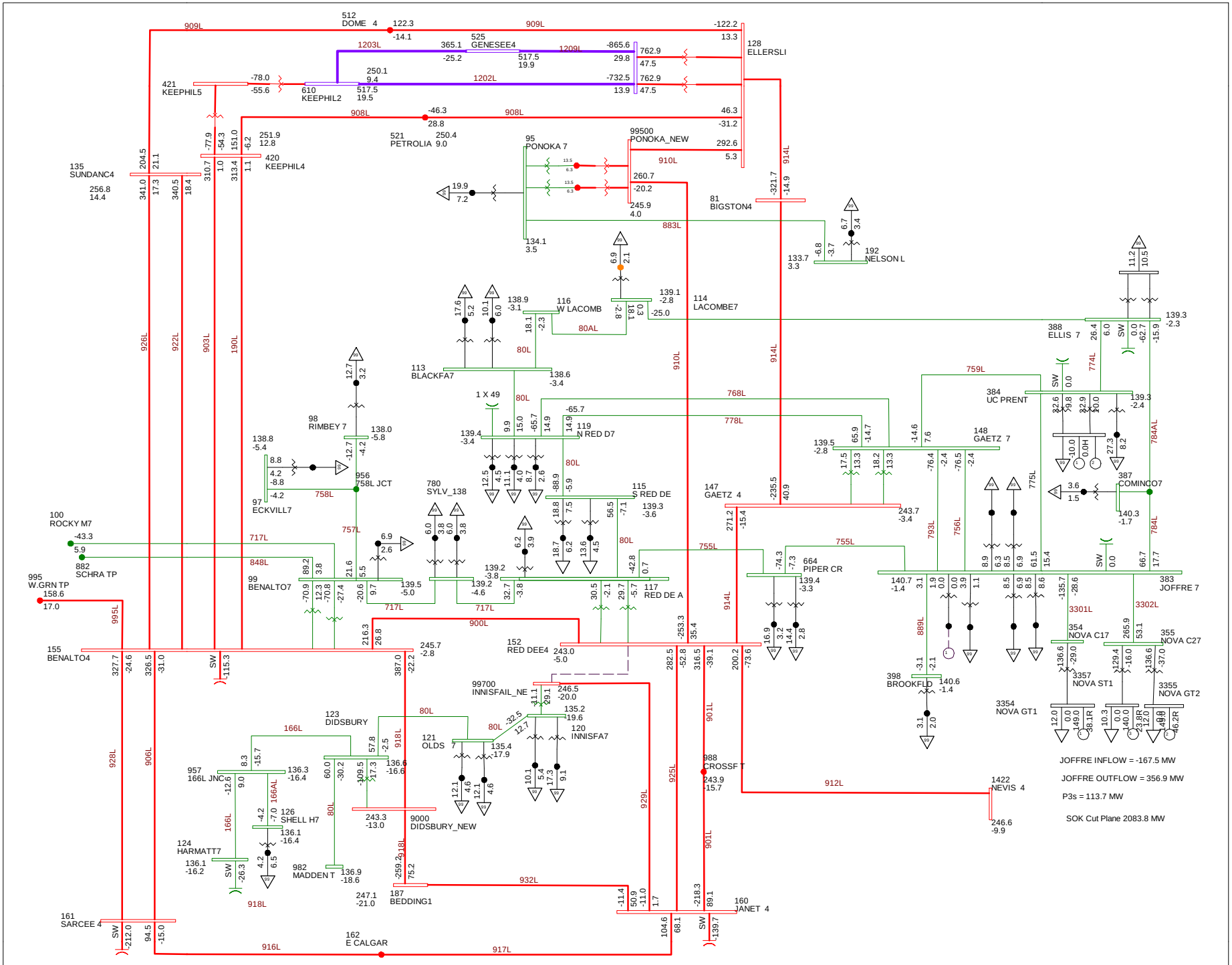


RED DEER REGION STUDY
2012 S3_SOK_PK (2012 SUMMER PEAK CASE)

FIG 2012-ALT2-LOAD-SP-20(HIGH SOK)
240 KV 918L (DIDSBURY SUB. (152S) TO BEDDINGTON 162S) OUTAGE
TUE, MAR 01 2011 16:49

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-382

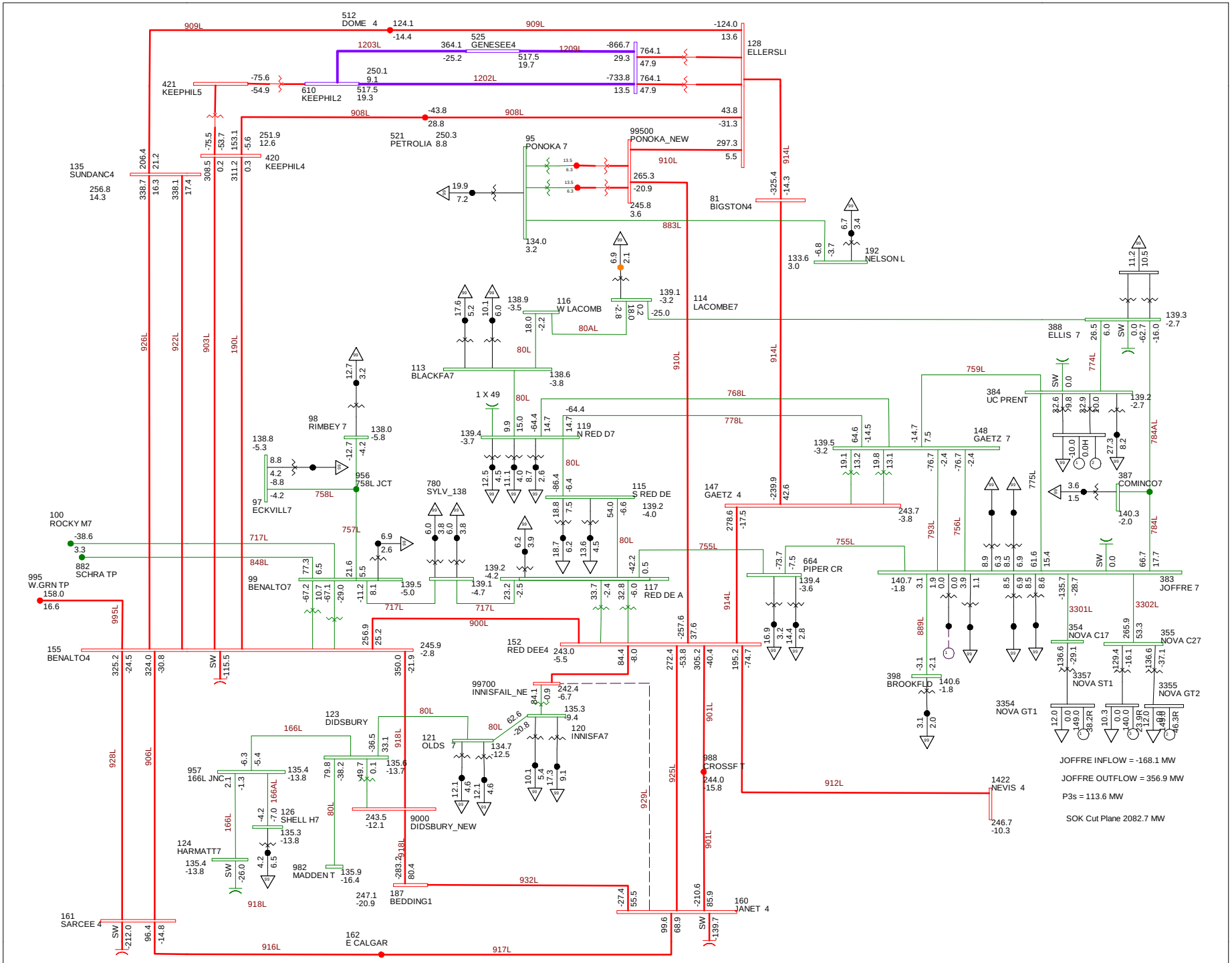


RED DEER REGION STUDY
2012 S3_SOK_PK (2012 SUMMER PEAK CASE)

FIG 2012-ALT2-LOAD-SP-21(HIGH SOK)
240 KV 929L (RED DEER 63S TO INNISFAIL 214S) OUTAGE
TUE, MAR 01 2011 16:49

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-383



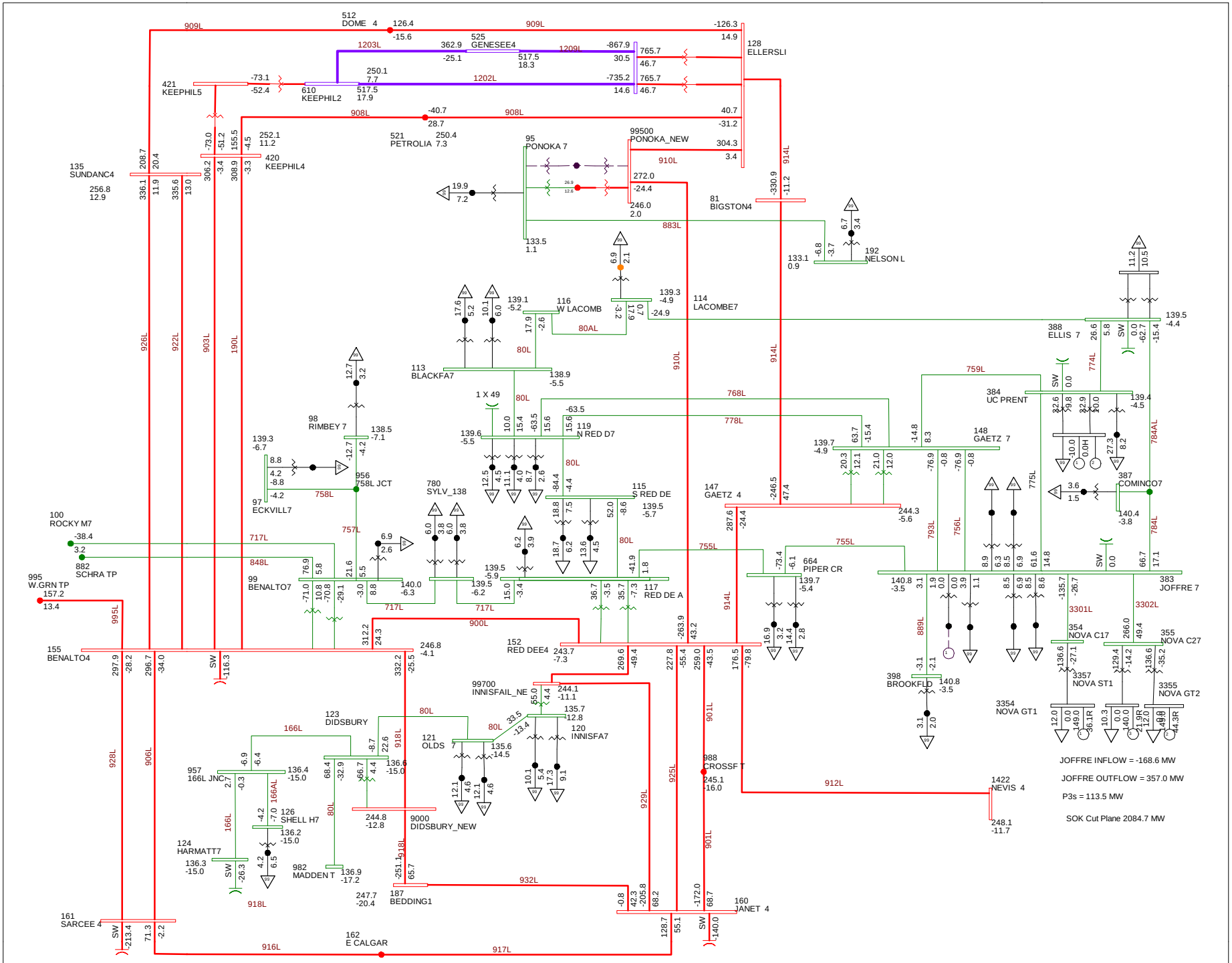
RED DEER REGION STUDY

2012 S3_SOK_PK (2012 SUMMER PEAK CASE)

FIG 2012-ALT2-LOAD-SP-22(HIGH SOK)
240KV 929L (INNISFAIL 214S TO JANET 74S) OUTAGE
TUE, MAR 01 2011 16:49

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-384

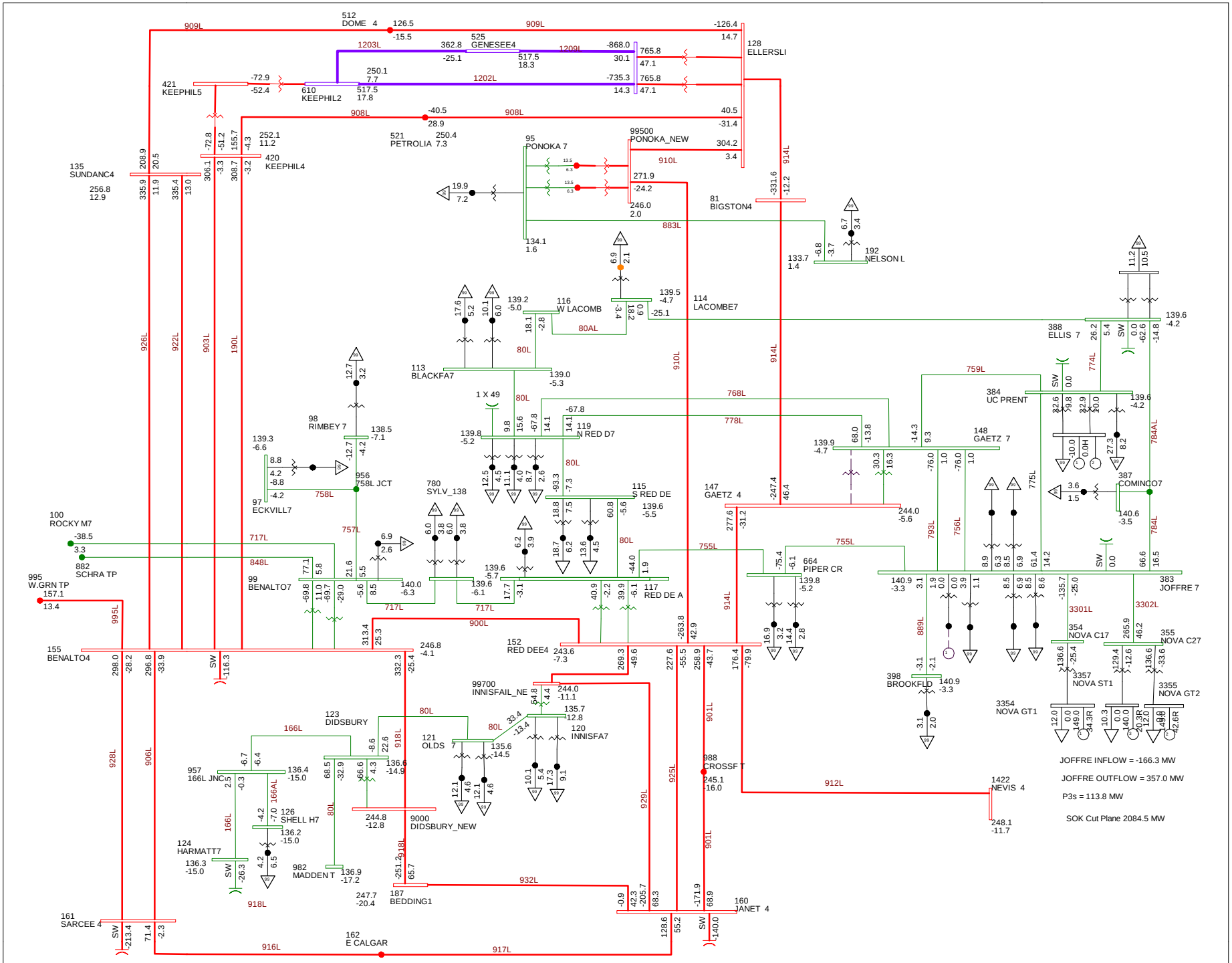


RED DEER REGION STUDY
2012 S3_SOK_PK (2012 SUMMER PEAK CASE)

FIG 2012-ALT2-LOAD-SP-23(HIGH SOK)
240/138KV TRANSFORMER AT PONOKA 331S OUTAGE
TUE, MAR 01 2011 16:49

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-385

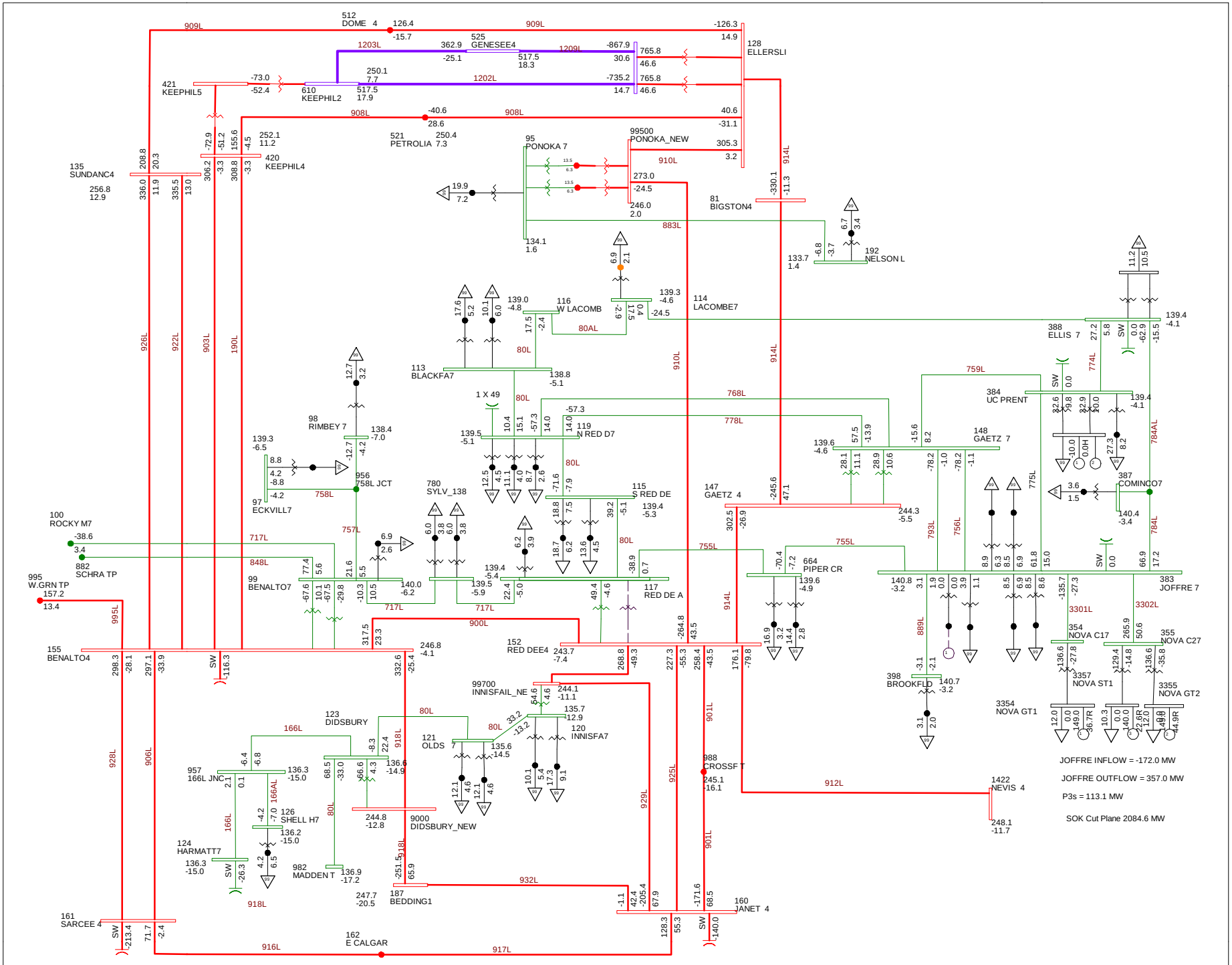


RED DEER REGION STUDY
2012 S3_SOK_PK (2012 SUMMER PEAK CASE)

FIG 2012-ALT2-LOAD-SP-24(HIGH SOK)
240/138KV TRANSFORMER AT GAETZ 87S OUTAGE
TUE, MAR 01 2011 16:49

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-386

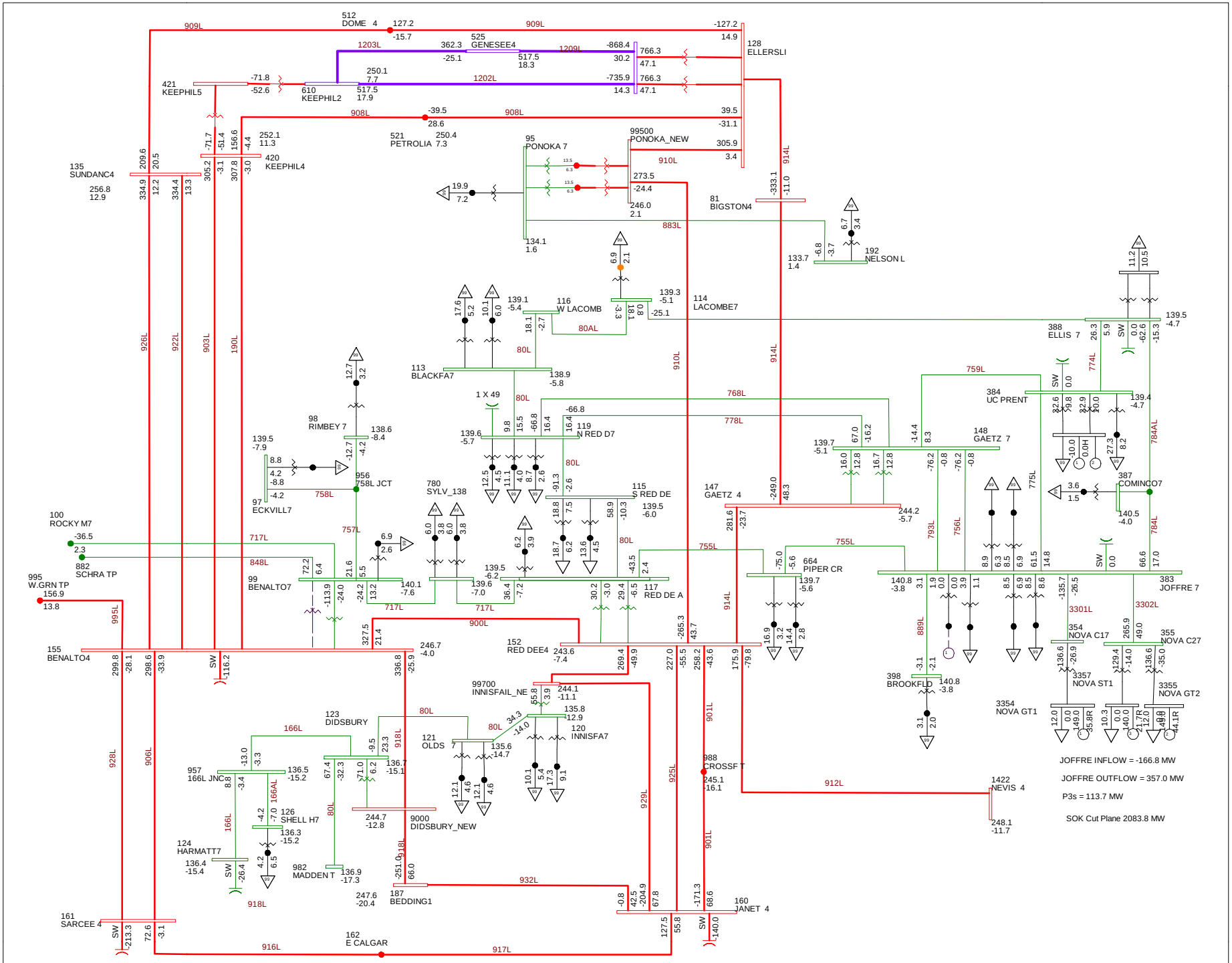


RED DEER REGION STUDY
2012 S3_SOK_PK (2012 SUMMER PEAK CASE)

FIG 2012-ALT2-LOAD-SP-25(HIGH SOK)
240/138KV TRANSFORMER AT RED DEER 63S OUTAGE
TUE, MAR 01 2011 16:49

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-387

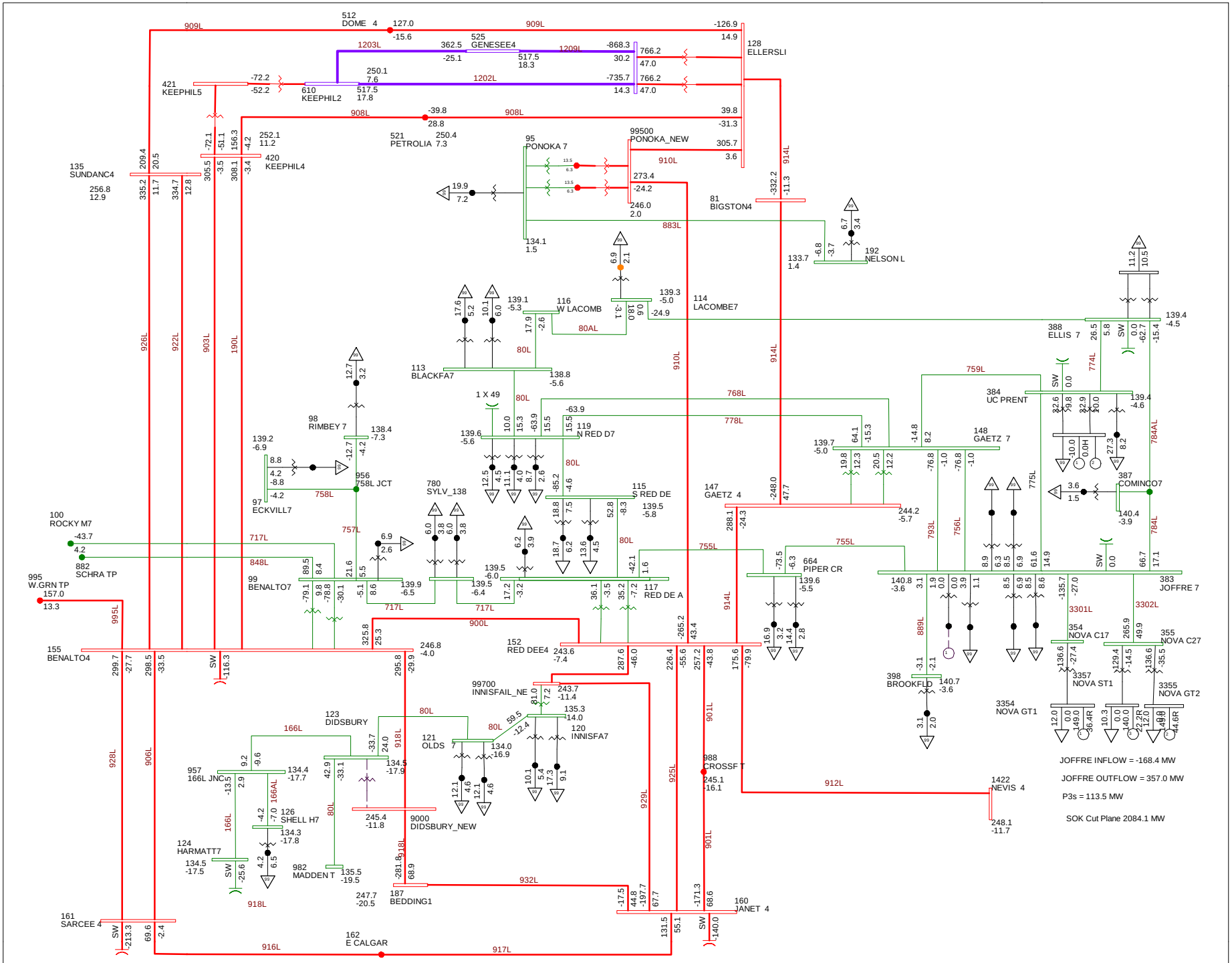


RED DEER REGION STUDY
2012 S3_SOK_PK (2012 SUMMER PEAK CASE)

FIG 2012-ALT2-LOAD-SP-26(HIGH SOK)
240/138KV TRANSFORMER AT BENALTO 17S OUTAGE
TUE, MAR 01 2011 16:49

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-388

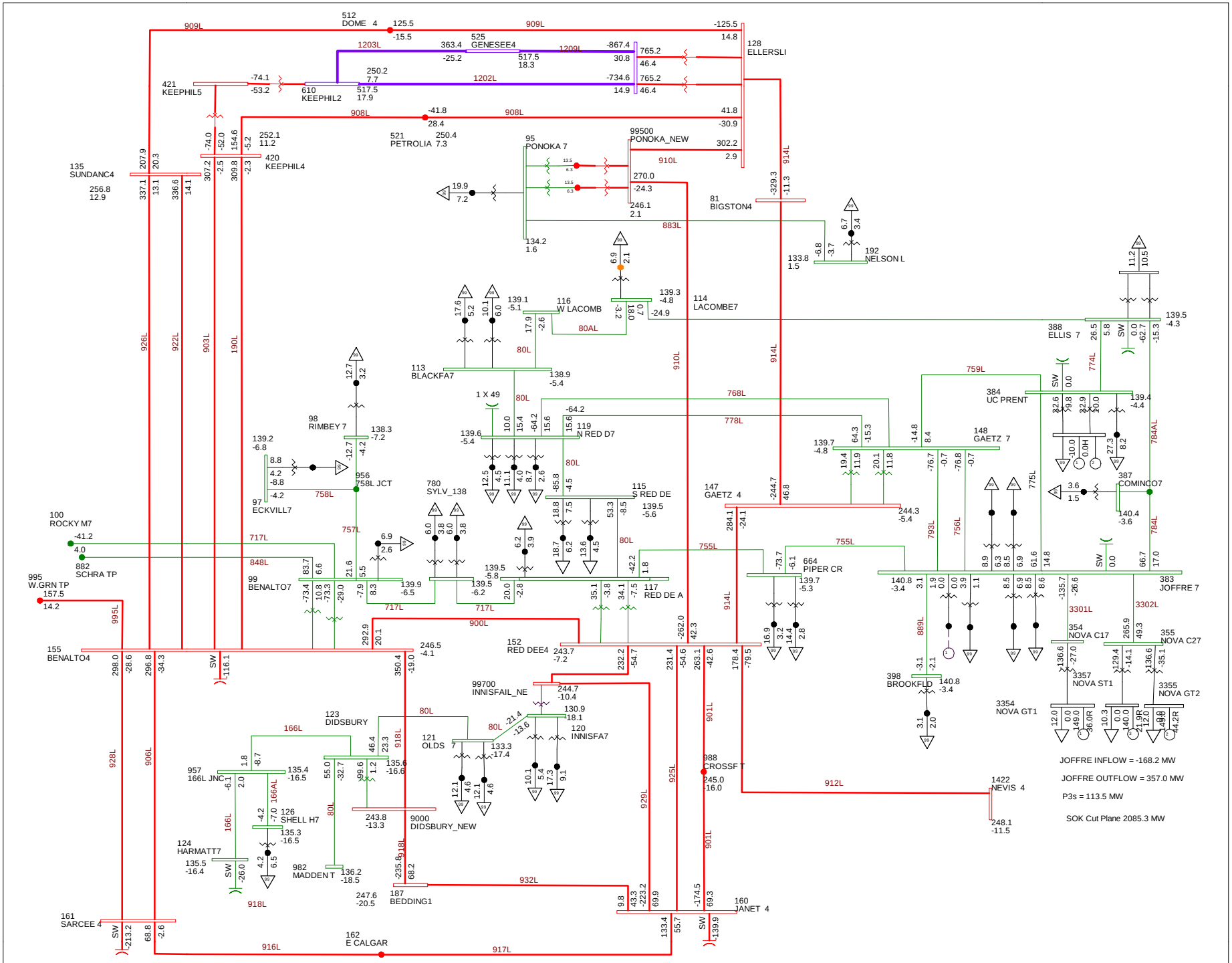


RED DEER REGION STUDY
2012 S3_SOK_PK (2012 SUMMER PEAK CASE)

FIG 2012-ALT2-LOAD-SP-27(HIGH SOK)
240/138KV TRANSFORMER AT DIDSBURY SUB. (152S) OUTAGE
TUE, MAR 01 2011 16:49

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-389

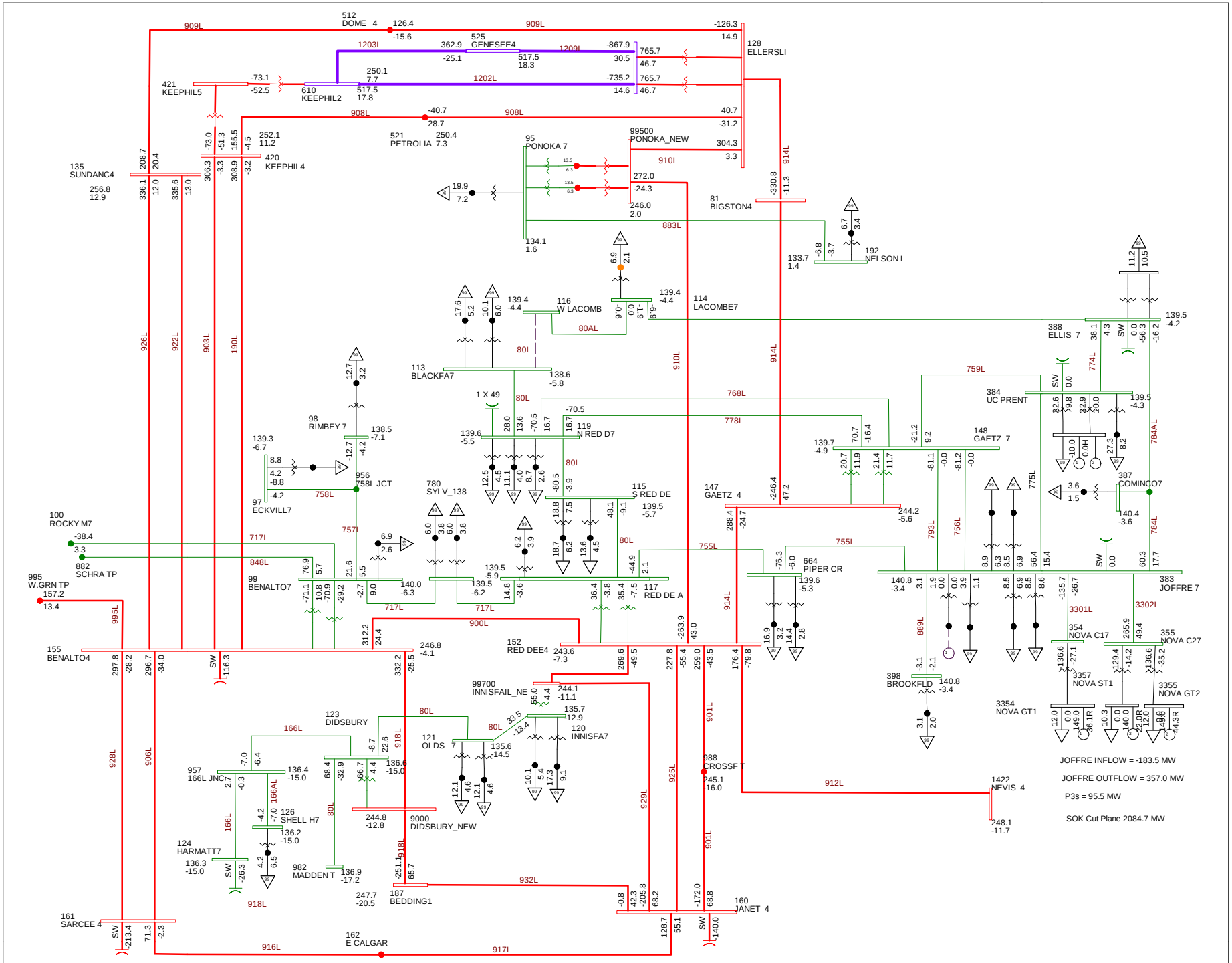


RED DEER REGION STUDY
2012 S3_SOK_PK (2012 SUMMER PEAK CASE)

FIG 2012-ALT2-LOAD-SP-28(HIGH SOK)
240/138KV TRANSFORMER AT INNISFAIL 214S OUTAGE
TUE, MAR 01 2011 16:49

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-390

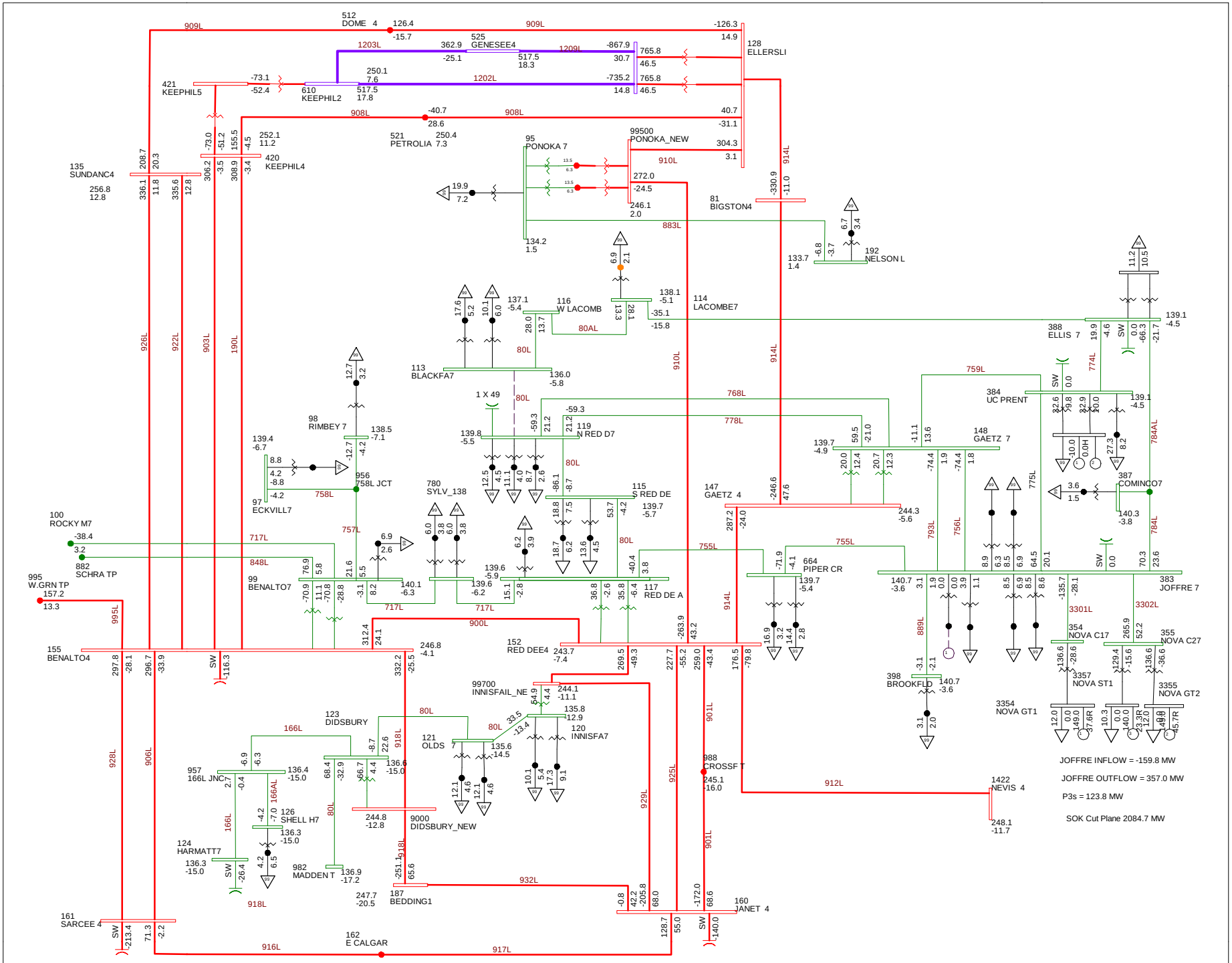


RED DEER REGION STUDY
2012 S3_SOK_PK (2012 SUMMER PEAK CASE)

FIG 2012-ALT2-LOAD-SP-29(HIGH SOK)
138 KV 80L (W. LACOMBE 958S TO BLACKFALDS 198S) OUTAGE
TUE, MAR 01 2011 16:49

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-391



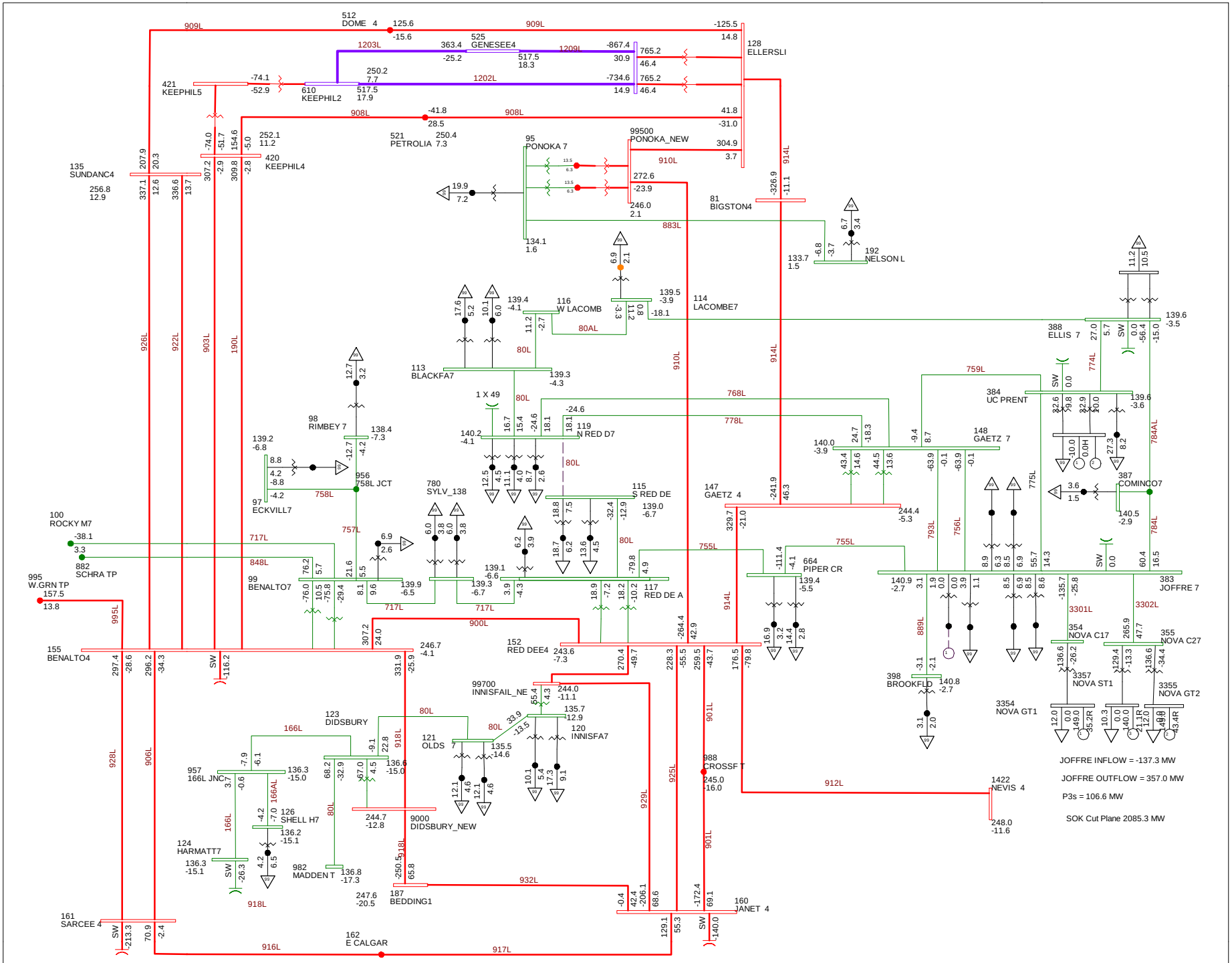
RED DEER REGION STUDY

2012 S3_SOK_PK (2012 SUMMER PEAK CASE)

FIG 2012-ALT2-LOAD-SP-30(HIGH SOK)
138 KV 80L (BLACKFALDS 198S TO N. RED DEER 217S) OUTAGE
TUE, MAR 01 2011 16:49

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR

D-2012-392

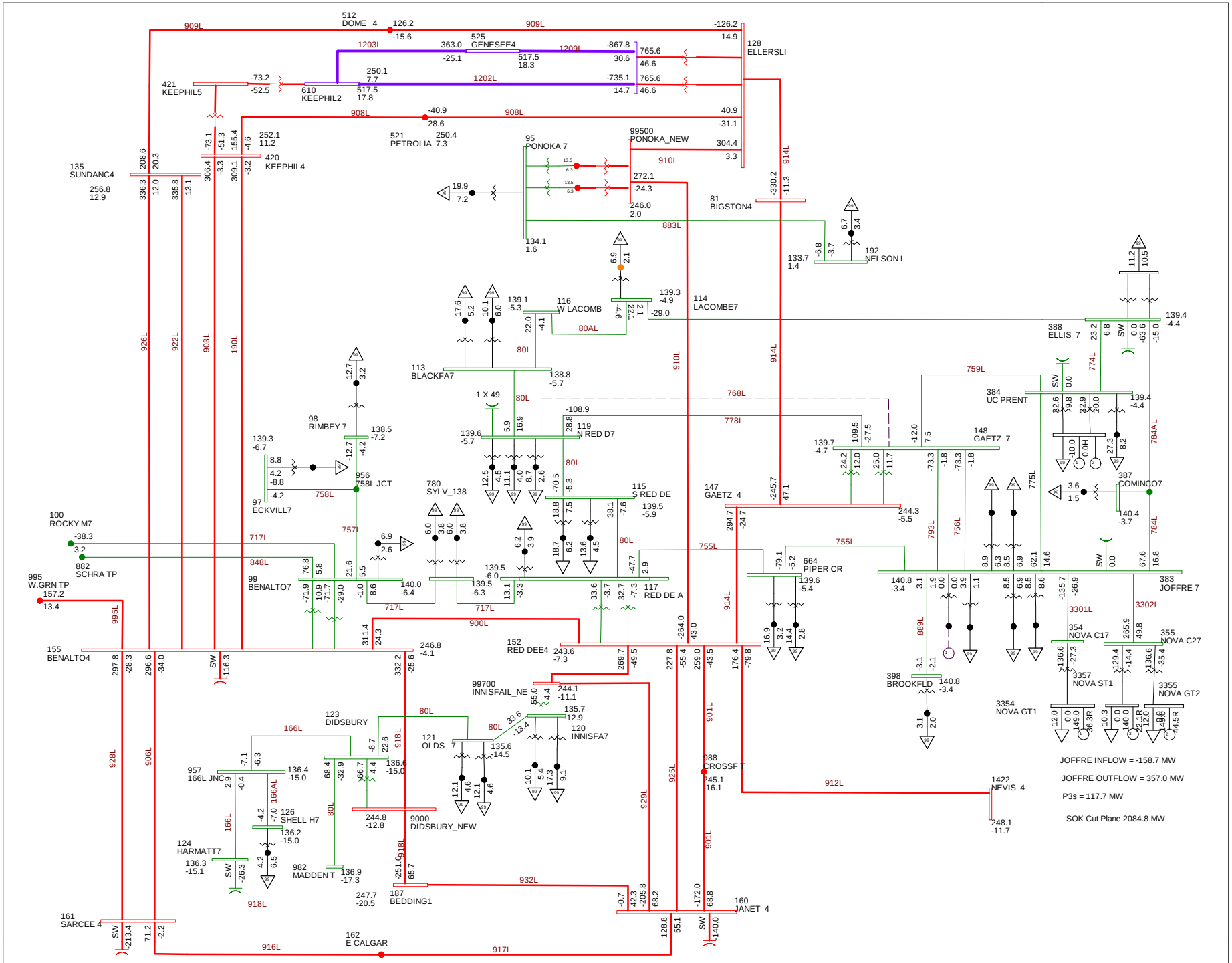


RED DEER REGION STUDY
2012 S3_SOK_PK (2012 SUMMER PEAK CASE)

FIG 2012-ALT2-LOAD-SP-31(HIGH SOK)
138 KV 80L (N. RED DEER 217S TO S. RED DEER 194S) OUTAGE
TUE, MAR 01 2011 16:49

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-393

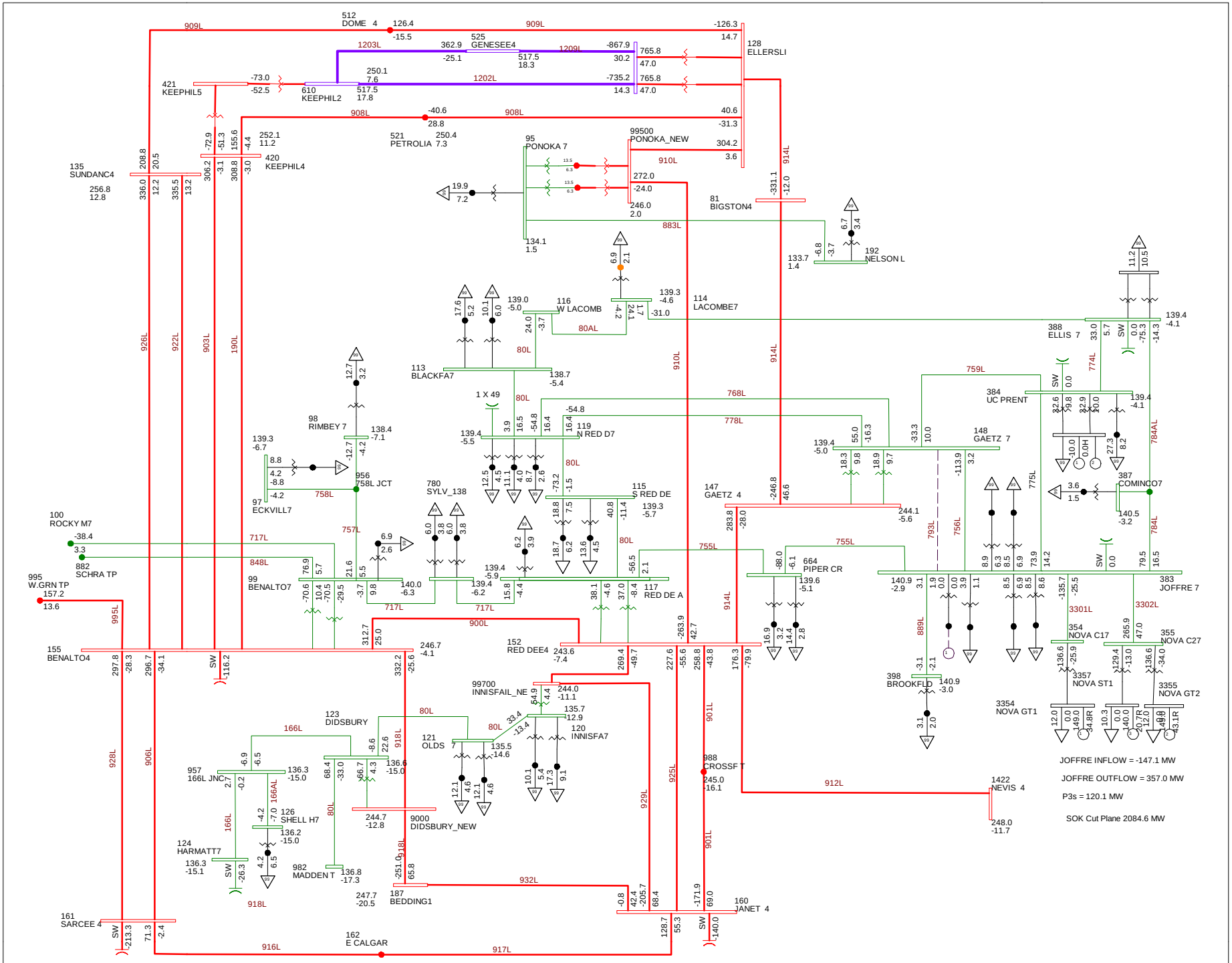


RED DEER REGION STUDY
2012 S3_SOK_PK (2012 SUMMER PEAK CASE)

FIG 2012-ALT2-LOAD-SP-32(HIGH SOK)
138 KV 768/778L (N. RED DEER 217S TO GAETZ 87S) OUTAGE
TUE, MAR 01 2011 16:49

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-394

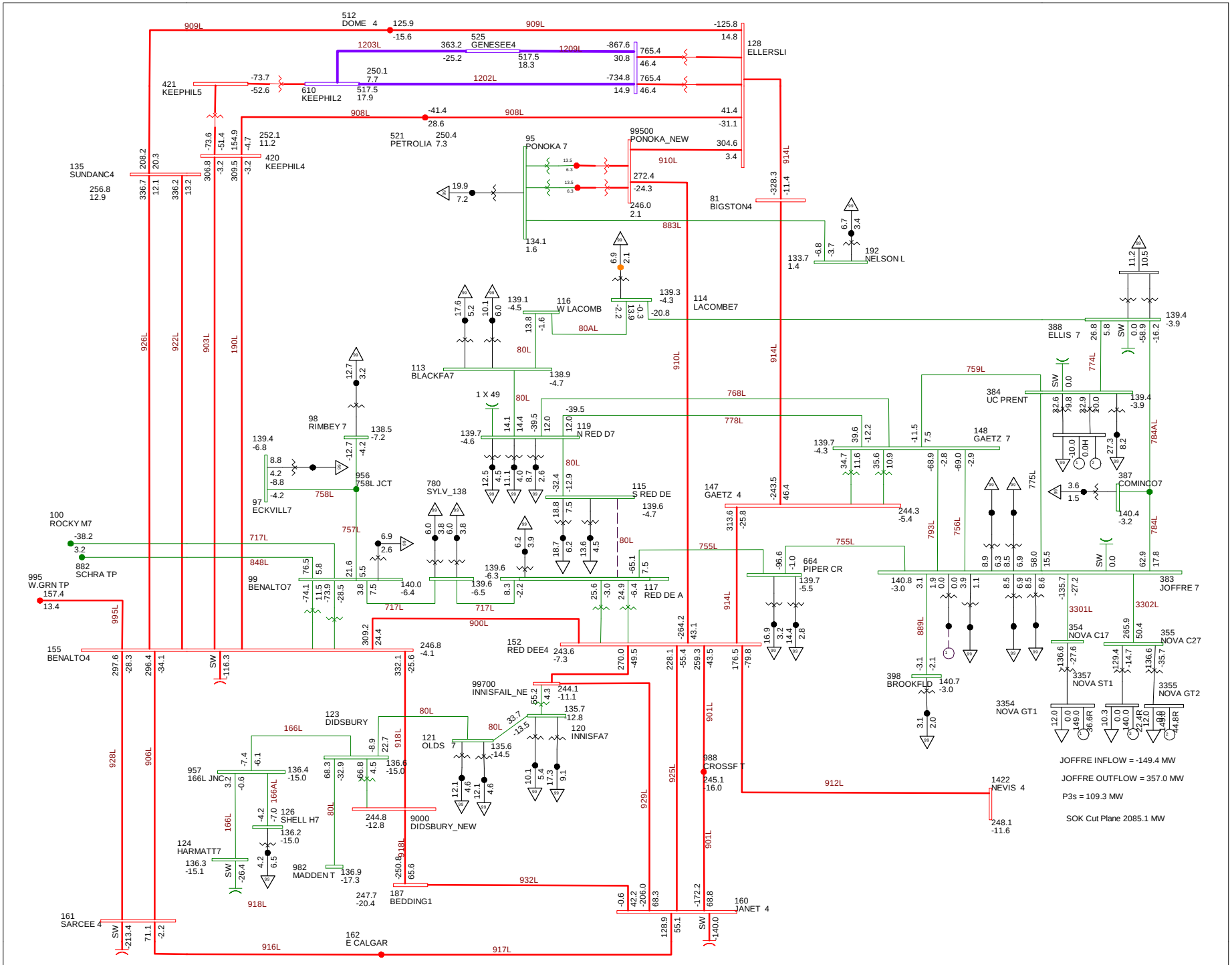


RED DEER REGION STUDY
2012 S3_SOK_PK (2012 SUMMER PEAK CASE)

FIG 2012-ALT2-LOAD-SP-33(HIGH SOK)
138 KV 793/756L (GAETZ 87S TO JOFFRE 535S) OUTAGE
TUE, MAR 01 2011 16:49

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-395

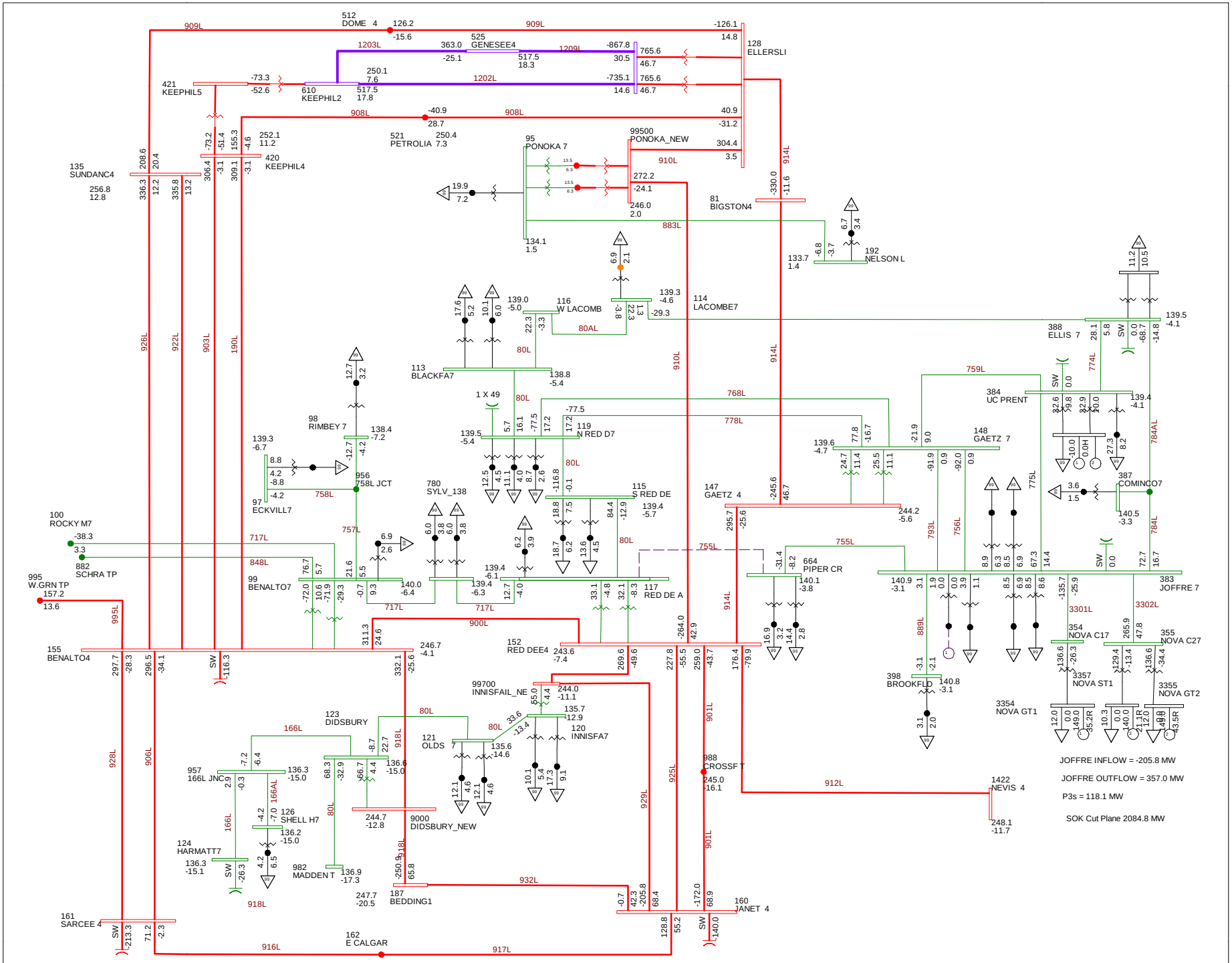


RED DEER REGION STUDY
2012 S3_SOK_PK (2012 SUMMER PEAK CASE)

FIG 2012-ALT2-LOAD-SP-34(HIGH SOK)
138 KV 80L (S. RED DEER 194S TO RED DEER 63S) OUTAGE
TUE, MAR 01 2011 16:49

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-396



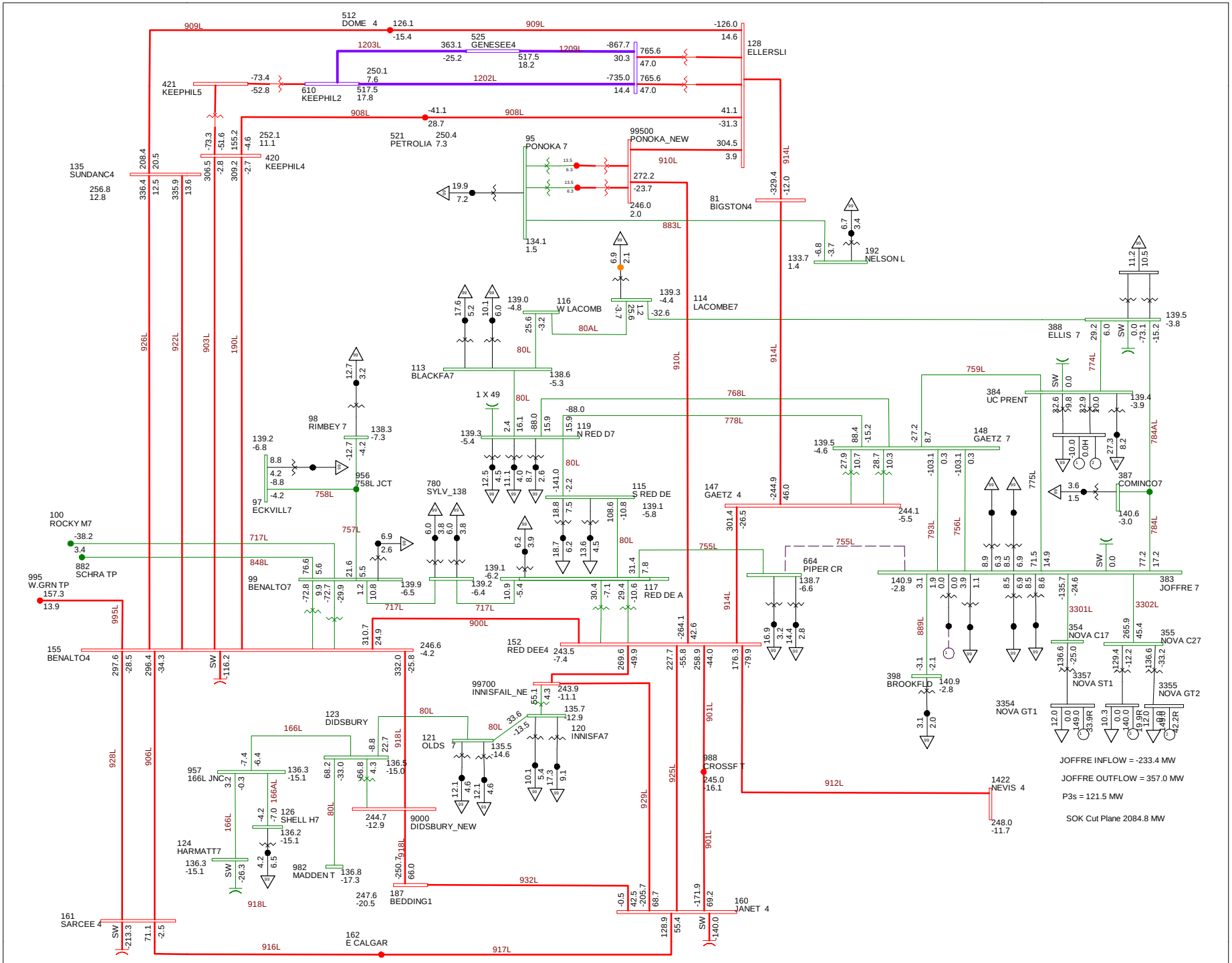
RED DEER REGION STUDY

2012 S3_SOK_PK (2012 SUMMER PEAK CASE)

FIG 2012-ALT2-LOAD-SP-35(HIGH SOK)
138 KV 755L (RED DEER 63S TO PIPER CREEK 247S) OUTAGE
TUE, MAR 01 2011 16:49

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-397

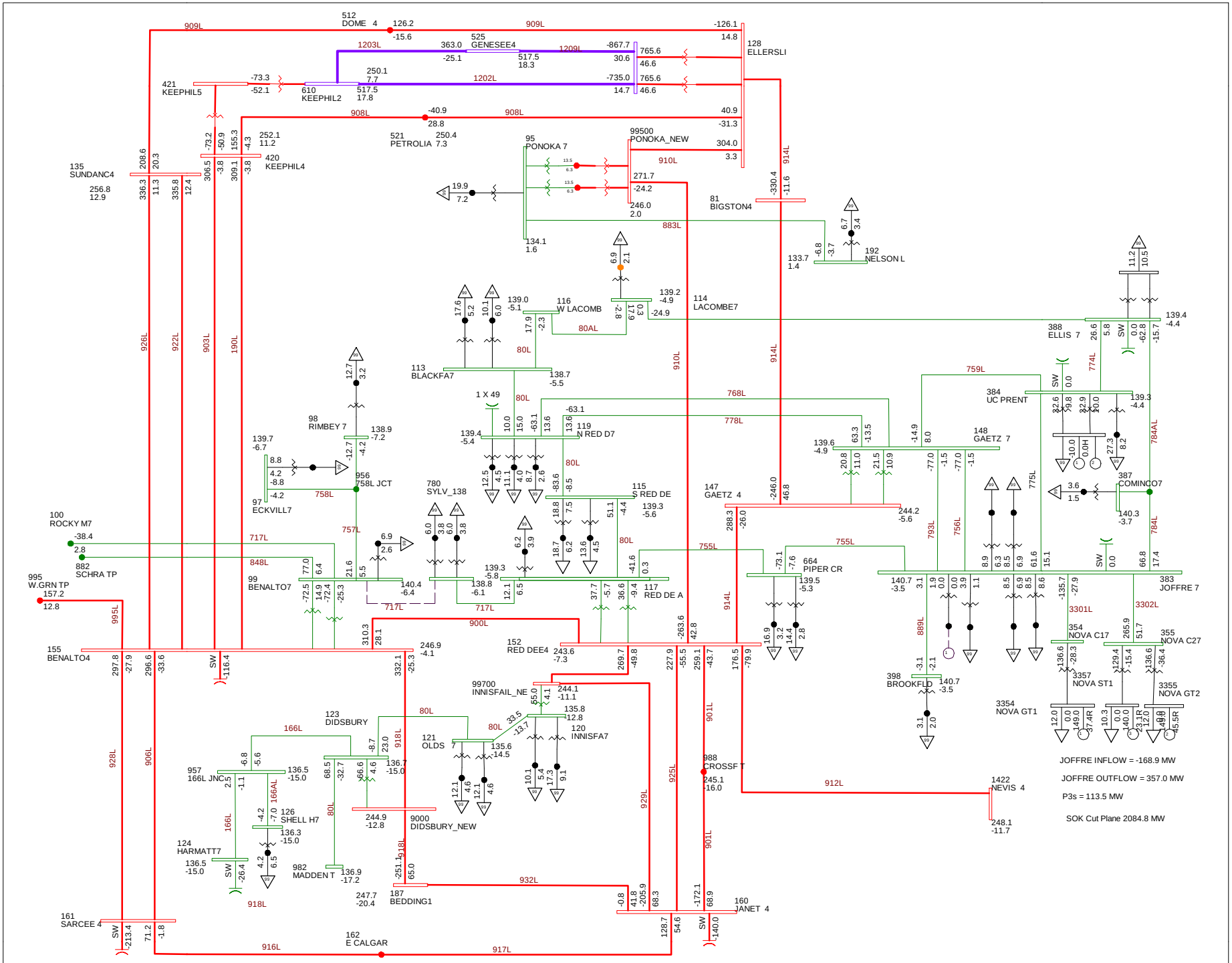


RED DEER REGION STUDY
2012 S3_SOK_PK (2012 SUMMER PEAK CASE)

FIG 2012-ALT2-LOAD-SP-36(HIGH SOK)
138 KV 755L (JOFFRE 535S TO PIPER CREEK 247S) OUTAGE
TUE, MAR 01 2011 16:49

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-398

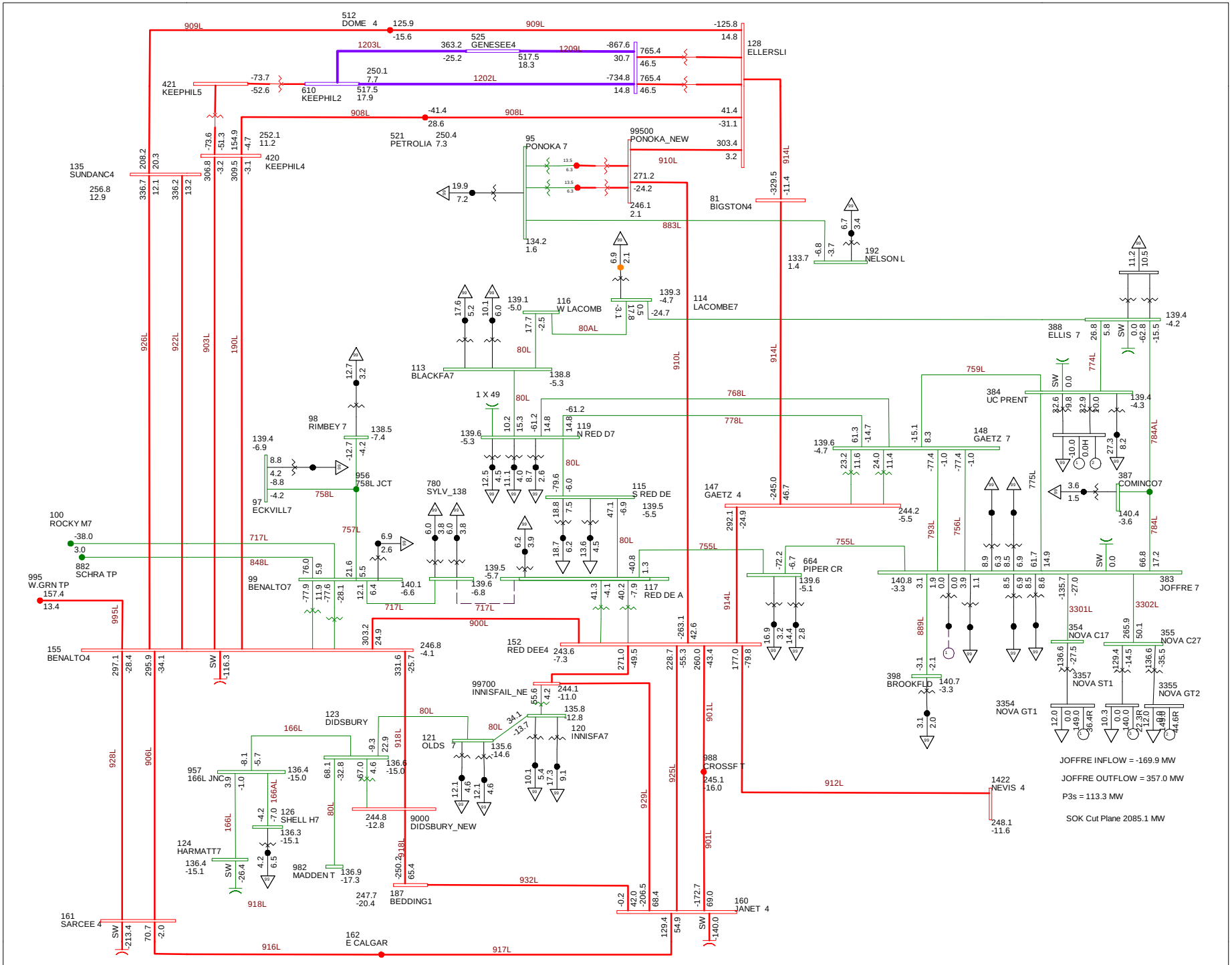


RED DEER REGION STUDY
2012 S3_SOK_PK (2012 SUMMER PEAK CASE)

FIG 2012-ALT2-LOAD-SP-37(HIGH SOK)
138 KV 717L (BENALTO 17S TO SYLVAN LAKE 580S) OUTAGE
TUE, MAR 01 2011 16:49

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-399

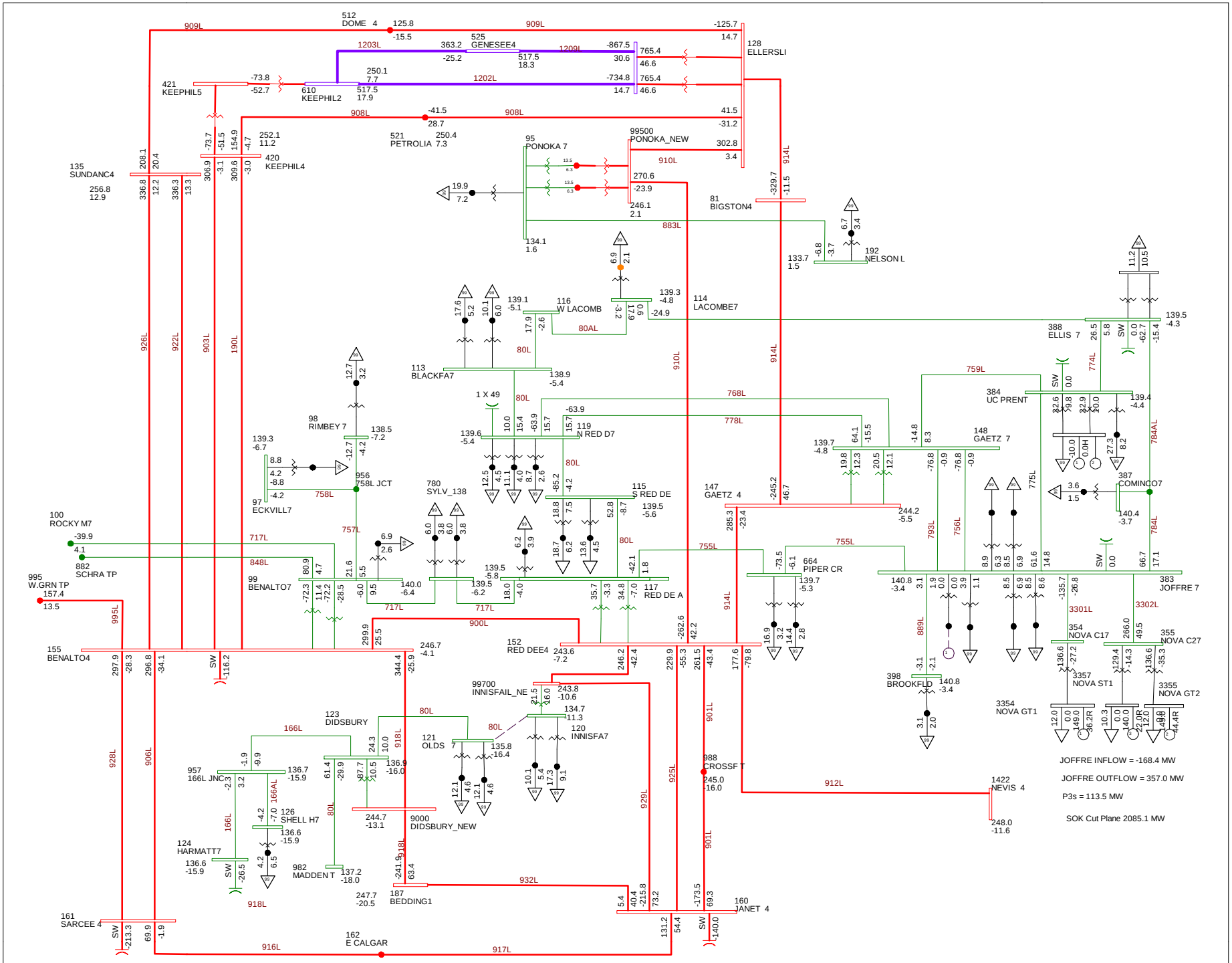


RED DEER REGION STUDY
2012 S3_SOK_PK (2012 SUMMER PEAK CASE)

FIG 2012-ALT2-LOAD-SP-38(HIGH SOK)
138 KV 717L (RED DEER 63S TO SYLVAN LAKE 580S) OUTAGE
TUE, MAR 01 2011 16:49

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-400



RED DEER REGION STUDY
2012 S3_SOK_PK (2012 SUMMER PEAK CASE)

FIG 2012-ALT2-LOAD-SP-39(HIGH SOK)
138 KV 80L (INNISFAIL 214S TO OLDS 55S) OUTAGE
TUE, MAR 01 2011 16:49

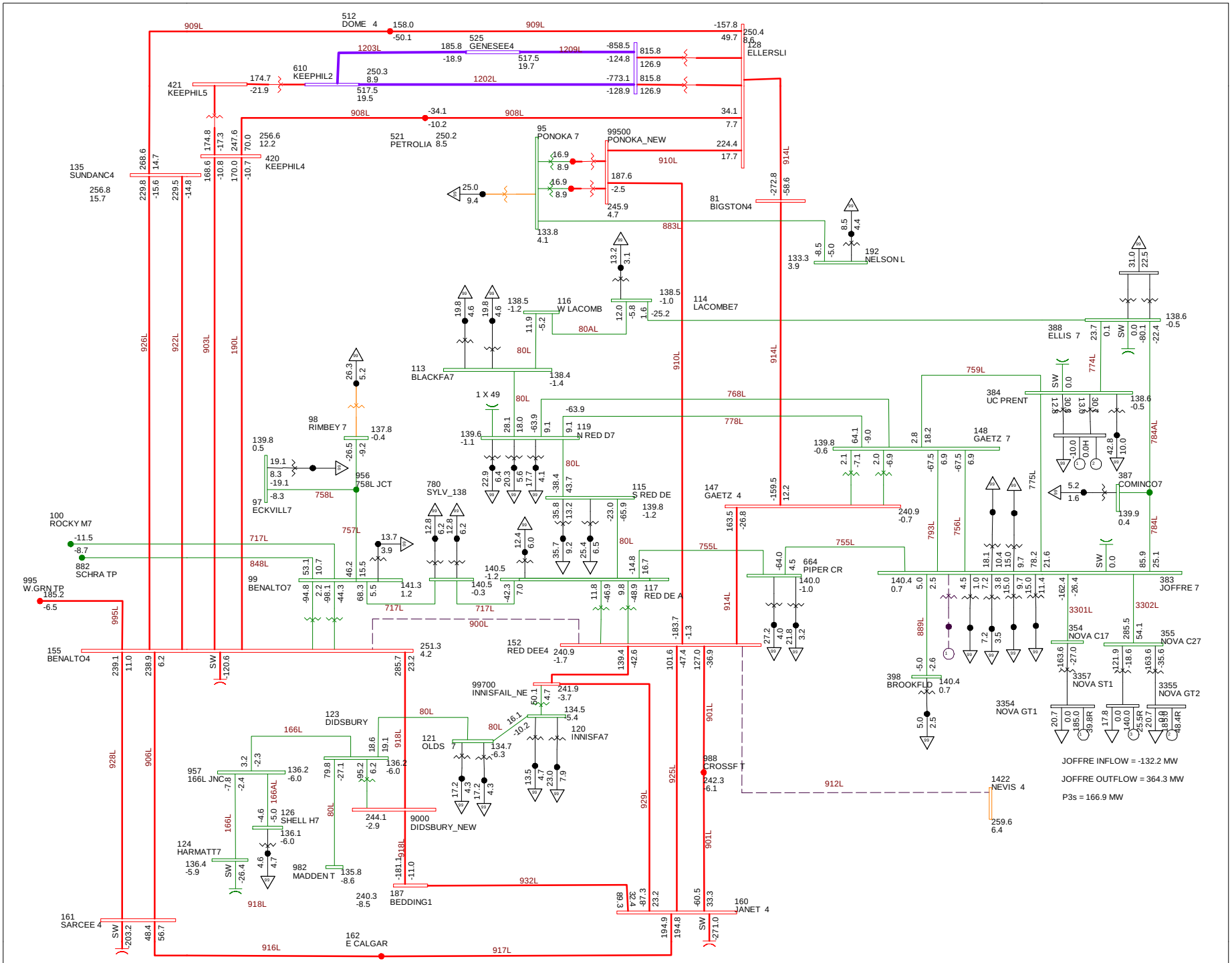
Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-401

D2-Category C& D Analysis

Table D-2012-7: Summary of 2012 Load Adequacy Power Flow Analysis - Alternative 2 Category C3

Figure No.	Contingency	Overloaded Element	Percent Overload	Other System Performance Concerns	SPS
Winter Peak					
Fig 2012-Alt2-Load-WP-C3-1	9L12(Nevis 766S to Red Deer 63S) 900L(Benalto 17S to Red Deer 63S)	None	N/A	None	None
Fig 2012-Alt2-Load-WP-C3-2	9L12(Nevis 766S to Red Deer 63S) 918L(Didsbury 152S to Bedding 162)	None	N/A	None	None
Fig 2012-Alt2-Load-WP-C3-3	9L12(Nevis 766S to Red Deer 63S) 918L(Benalto 17S to Didsbury 152S)	None	N/A	None	None
Fig 2012-Alt2-Load-WP-C3-4	918L(Benalto 17S to Didsbury 152S) 900L(Benalto 17S to Red Deer 63S)	None	N/A	None	None
Fig 2012-Alt2-Load-WP-C3-5	918L(Benalto 17S to Didsbury 152S) 918L(Didsbury 152S to Bedding 162)	None	N/A	None	None
Fig 2012-Alt2-Load-WP-C3-6	900L (Red Deer 63S to Benalto 17S) 918L(Didsbury 152S to Bedding 162)	None	N/A	None	None
Summer Light					
Fig 2012-Alt2-Load-SL-C3-1	9L12(Nevis 766S to Red Deer 63S) 900L(Benalto 17S to Red Deer 63S)	None	N/A	None	None
Fig 2012-Alt2-Load-SL-C3-2	9L12(Nevis 766S to Red Deer 63S) 918L(Didsbury 152S to Bedding 162)	None	N/A	None	None
Fig 2012-Alt2-Load-SL-C3-3	9L12(Nevis 766S to Red Deer 63S) 918L(Benalto 17S to Didsbury 152S)	None	N/A	None	None
Fig 2012-Alt2-Load-SL-C3-4	918L(Benalto 17S to Didsbury 152S) 900L(Benalto 17S to Red Deer 63S)	None	N/A	None	None
Fig 2012-Alt2-Load-SL-C3-5	918L(Benalto 17S to Didsbury 152S) 918L(Didsbury 152S to Bedding 162)	None	N/A	None	None
Fig 2012-Alt2-Load-SL-C3-6	900L (Red Deer 63S to Benalto 17S) 918L(Didsbury 152S to Bedding 162)	None	N/A	None	None

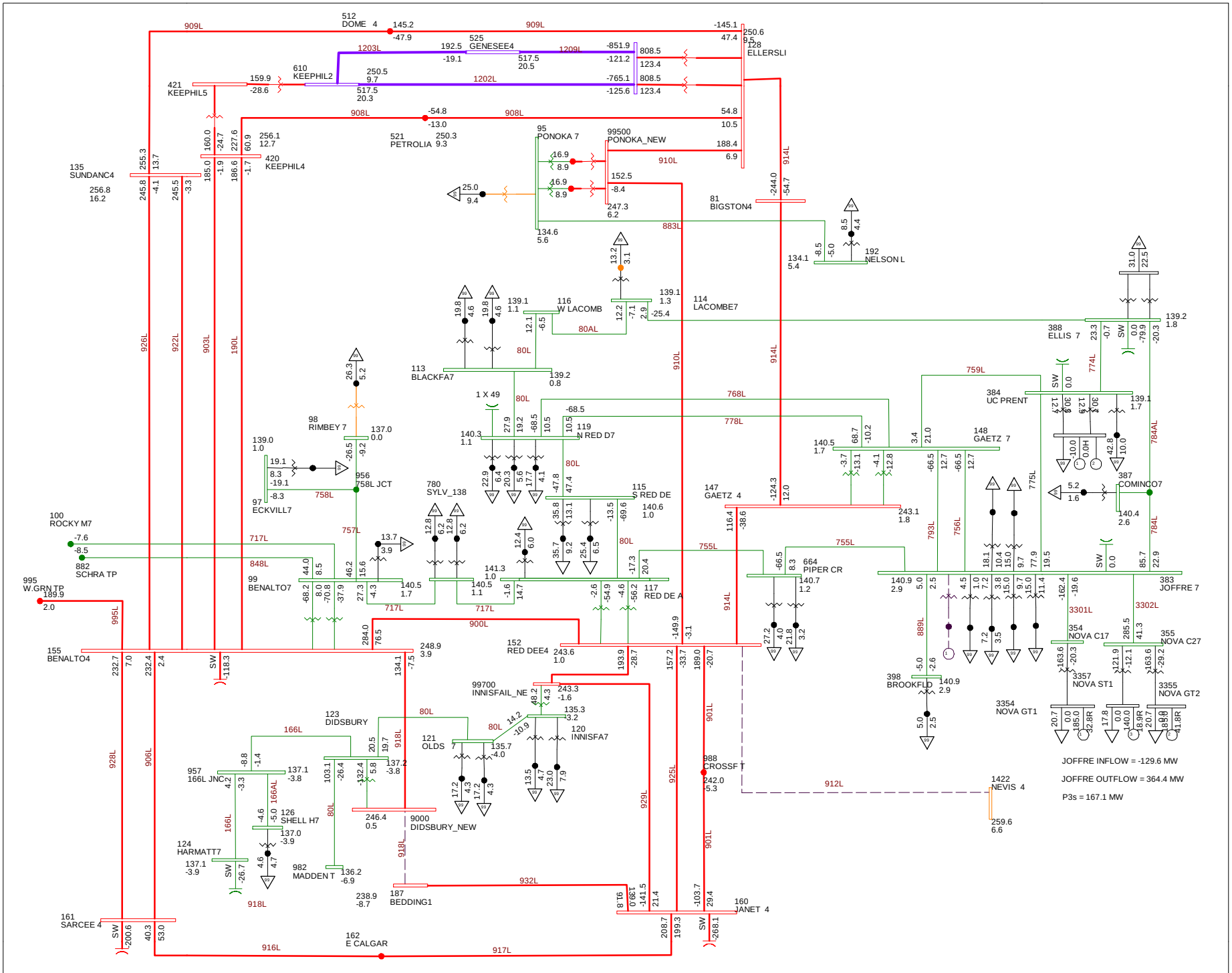


RED DEER REGION STUDY
2012 WINTER PEAK BASE CASE REVISION 6.5

FIG 2012-ALT2-LOAD-WP-C3-1: 9L12(NEVIS 766S TO RED DEER 63S)
900L(BENALTO 17S TO RED DEER 63S) OUTAGE
WED, MAR 02 2011 8:11

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-404



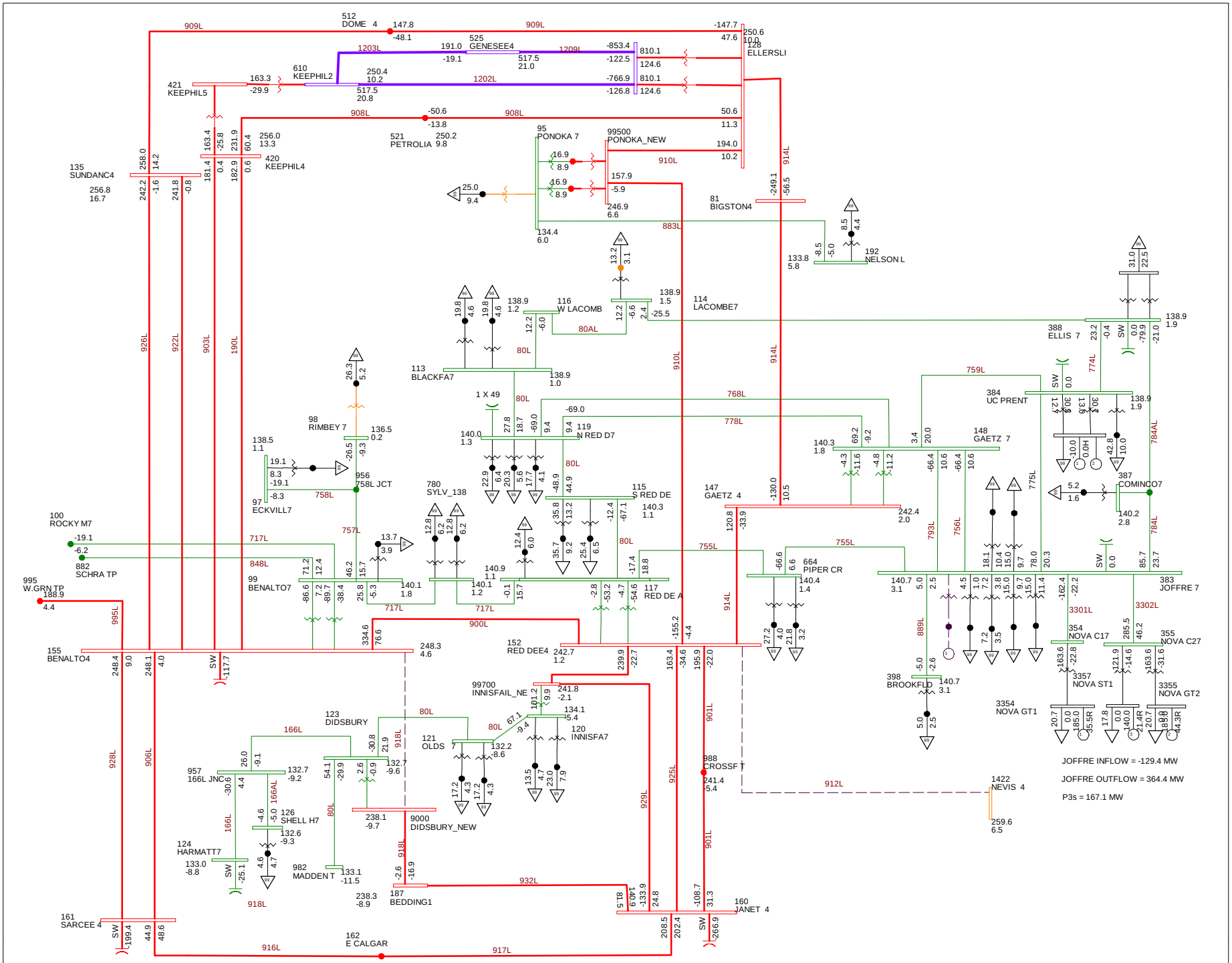
RED DEER REGION STUDY

2012 WINTER PEAK BASE CASE REVISION 6.5

FIG 2012-ALT2-LOAD-WP-C3-2: 9L12(NEVIS 766S TO RED DEER 63S)
918L(DIDSBURY 152S TO BEDDING 162) OUTAGE
WED, MAR 02 2011 8:11

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-405



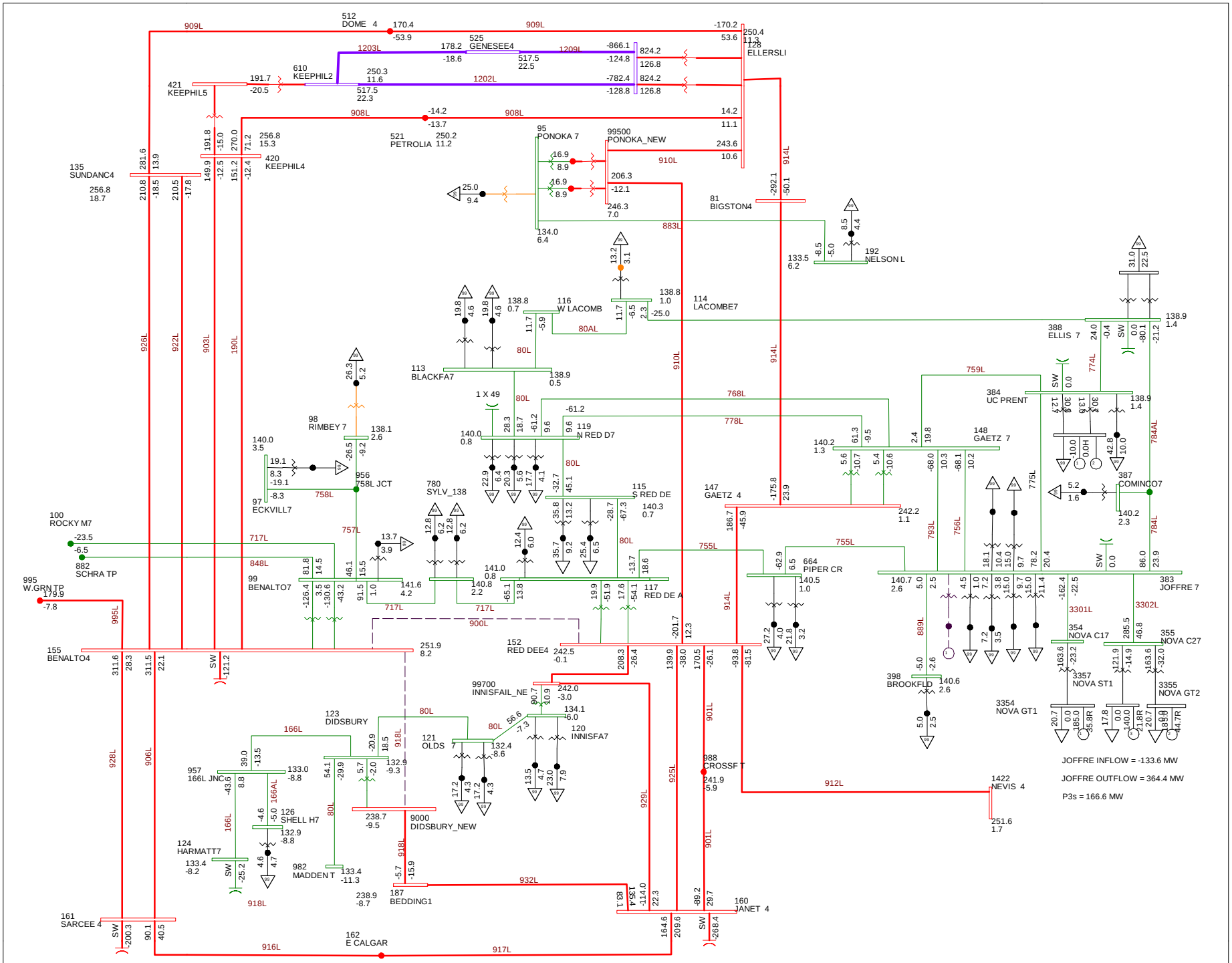
RED DEER REGION STUDY

2012 WINTER PEAK BASE CASE REVISION 6.5

FIG 2012-ALT2-LOAD-WP-C3-3: 9L12(NEVIS 766S TO RED DEER 63S)
918L(BENALTO 17S TO DIDSBURY 152S) OUTAGE
WED, MAR 02 2011 8:11

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-406



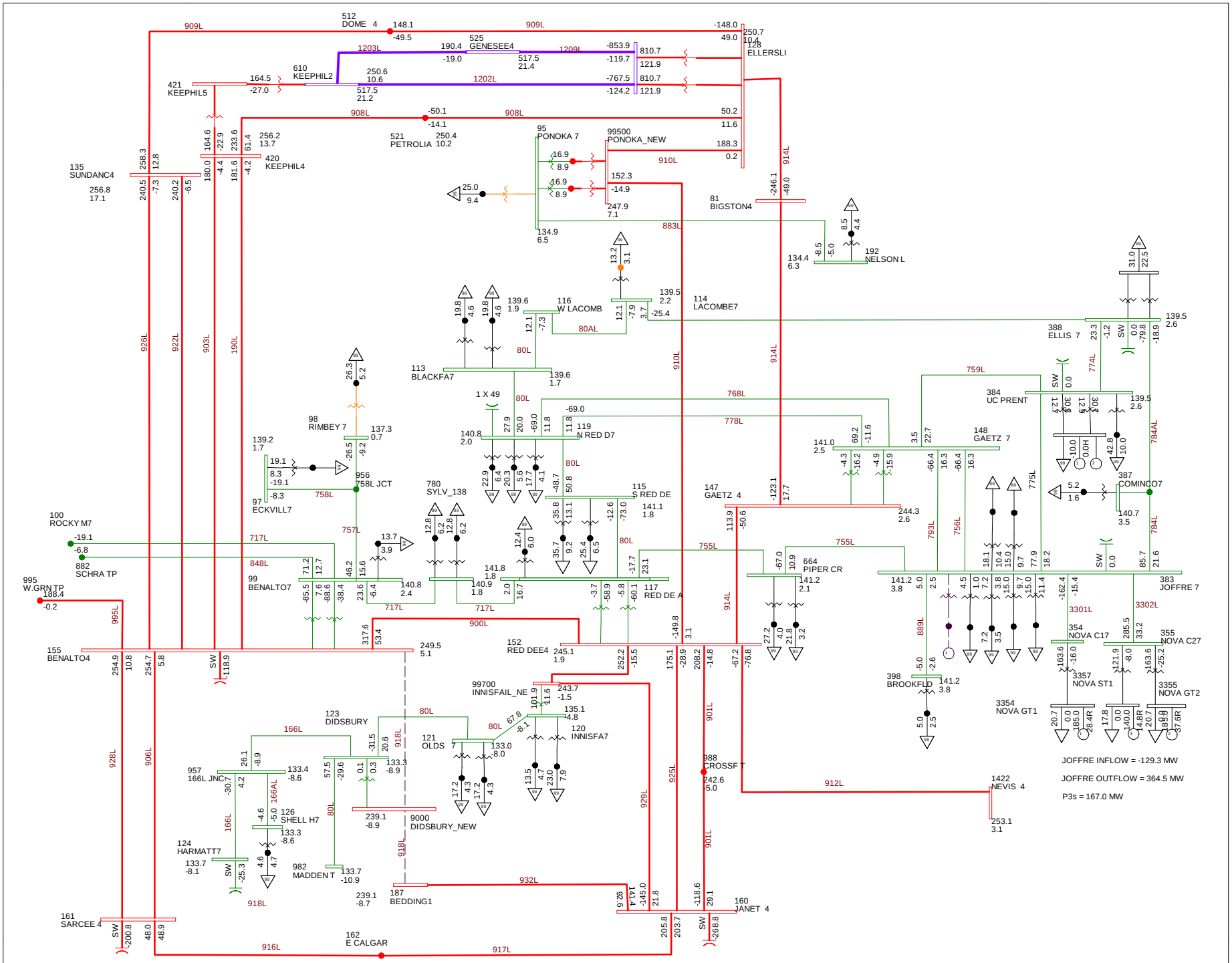
RED DEER REGION STUDY

2012 WINTER PEAK BASE CASE REVISION 6.5

FIG 2012-ALT2-LOAD-WP-C3-4: 918L(BENALTO 17S TO DIDSBURY 152 900L(BENALTO 17S TO RED DEER 63S) OUTAGE
WED, MAR 02 2011 8:11

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-407

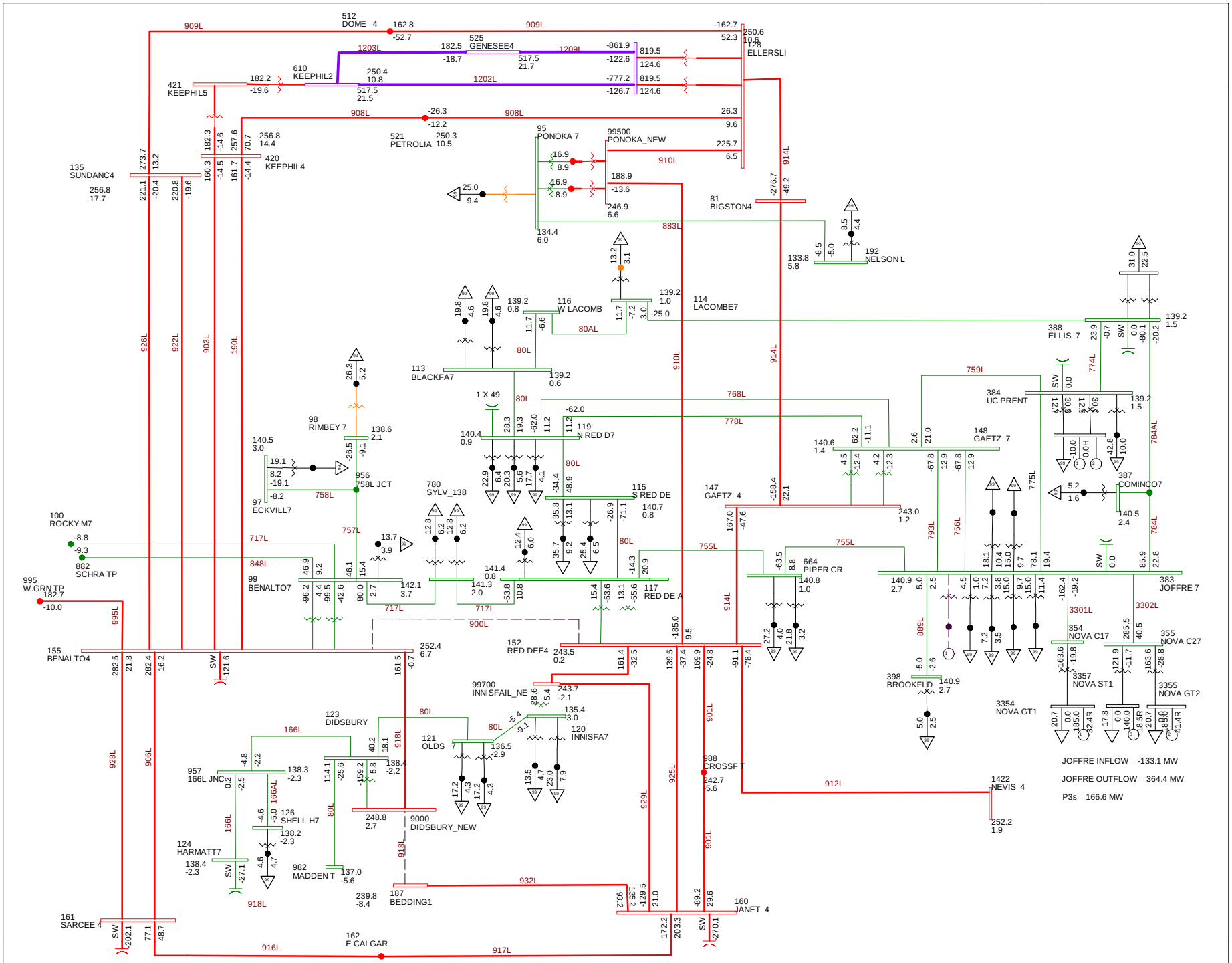


RED DEER REGION STUDY
2012 WINTER PEAK BASE CASE REVISION 6.5

FIG 2012-ALT2-LOAD-WP-C3-5: 918L(BENALTO 17S TO DIDSBURY 152 918L(DIDSBURY 152S TO BEDDING 162) OUTAGE
WED, MAR 02 2011 8:11

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-408

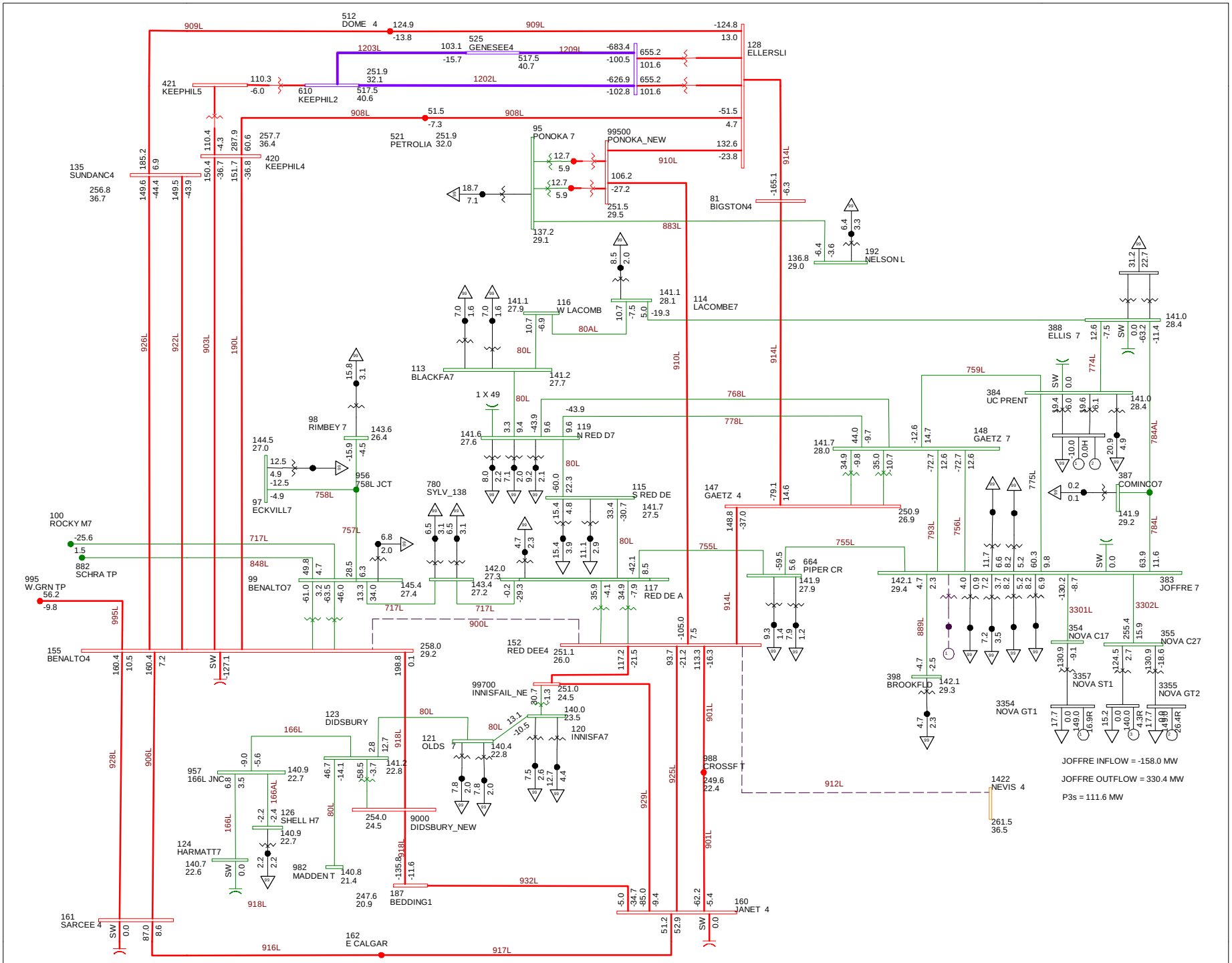


RED DEER REGION STUDY
2012 WINTER PEAK BASE CASE REVISION 6.5

FIG 2012-ALT2-LOAD-WP-C3-6: 900L (RED DEER 63S TO BENALTO 17 918L(DIDSBURY 152S TO BEDDING 162) OUTAGE
WED, MAR 02 2011 8:11

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-409



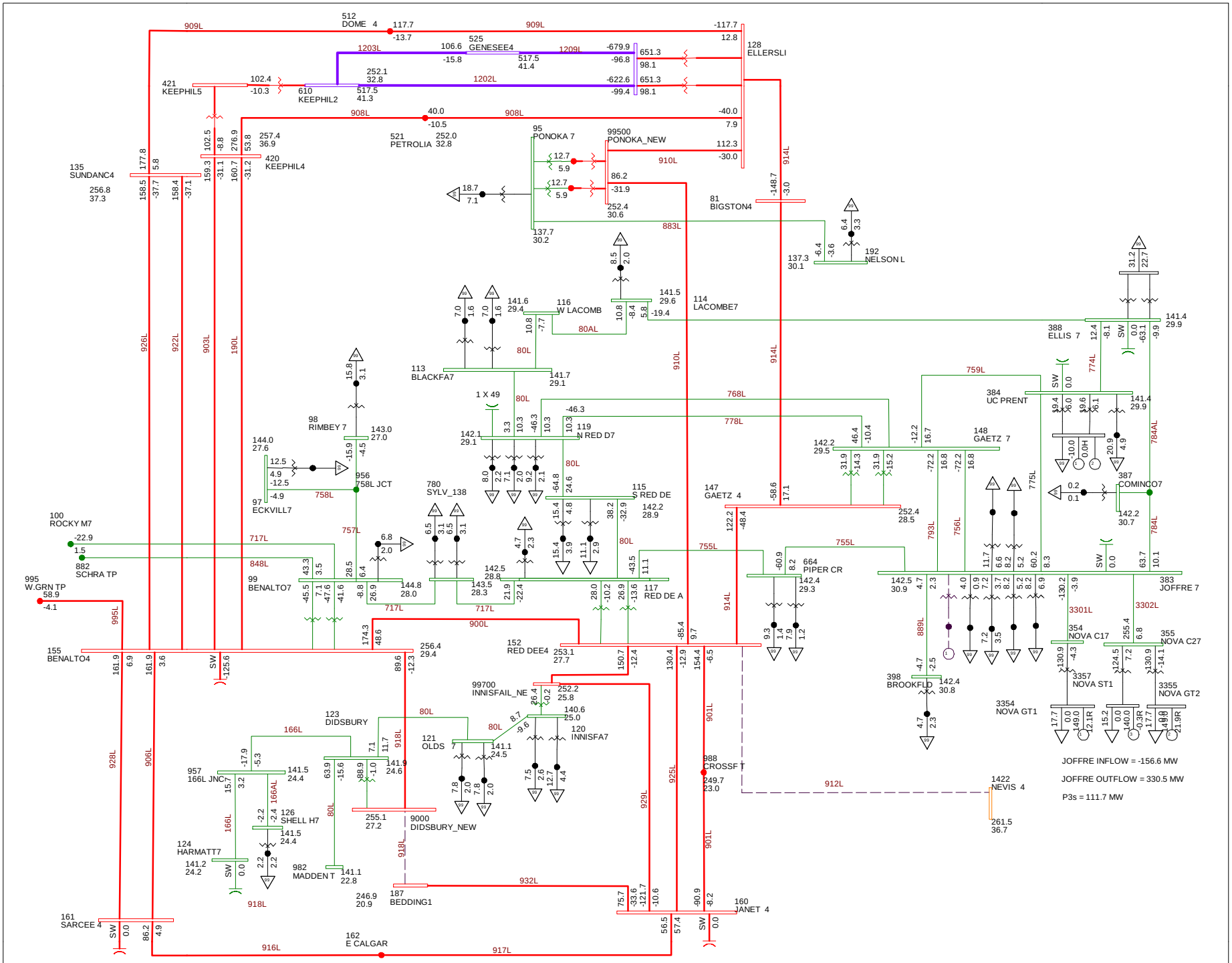
RED DEER REGION STUDY

2012 SUMMER LIGHT BASE CASE REVISION 6.5

FIG 2012-ALT2-LOAD-SL-C3-1: 9L12(NEVIS 766S TO RED DEER 63S)
900L(BENALTO 17S TO RED DEER 63S) OUTAGE
WED, MAR 02 2011 8:06

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-410



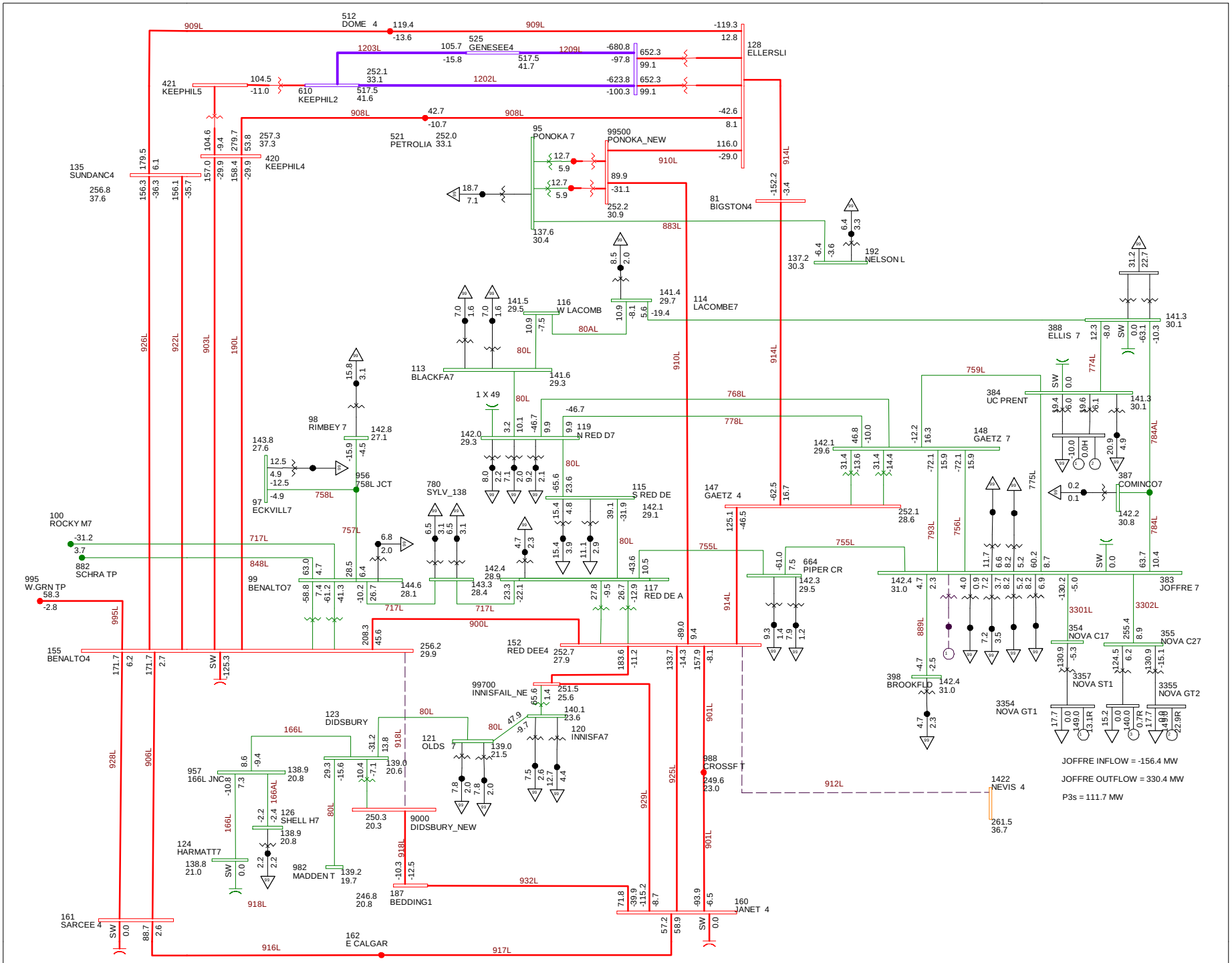
RED DEER REGION STUDY

2012 SUMMER LIGHT BASE CASE REVISION 6.5

FIG 2012-ALT2-LOAD-SL-C3-2: 9L12(NEVIS 766S TO RED DEER 63S)
918L(DIDSBURY 152S TO BEDDING 162) OUTAGE
WED, MAR 02 2011 8:06

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-411



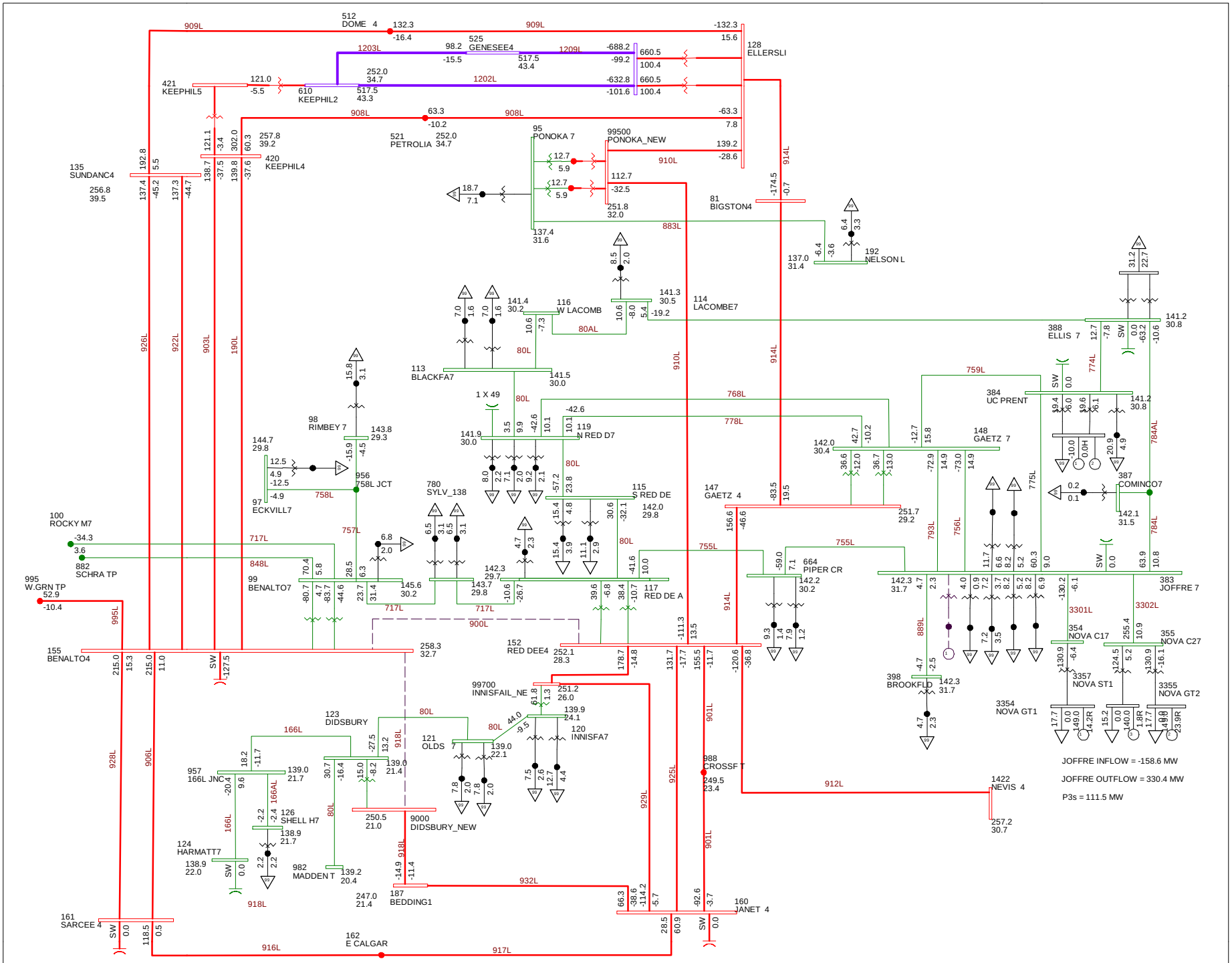
RED DEER REGION STUDY

2012 SUMMER LIGHT BASE CASE REVISION 6.5

FIG 2012-ALT2-LOAD-SL-C3-3: 9L12(NEVIS 766S TO RED DEER 63S)
918L(BENALTO 17S TO DIDSBURY 152S) OUTAGE
WED, MAR 02 2011 8:06

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-412



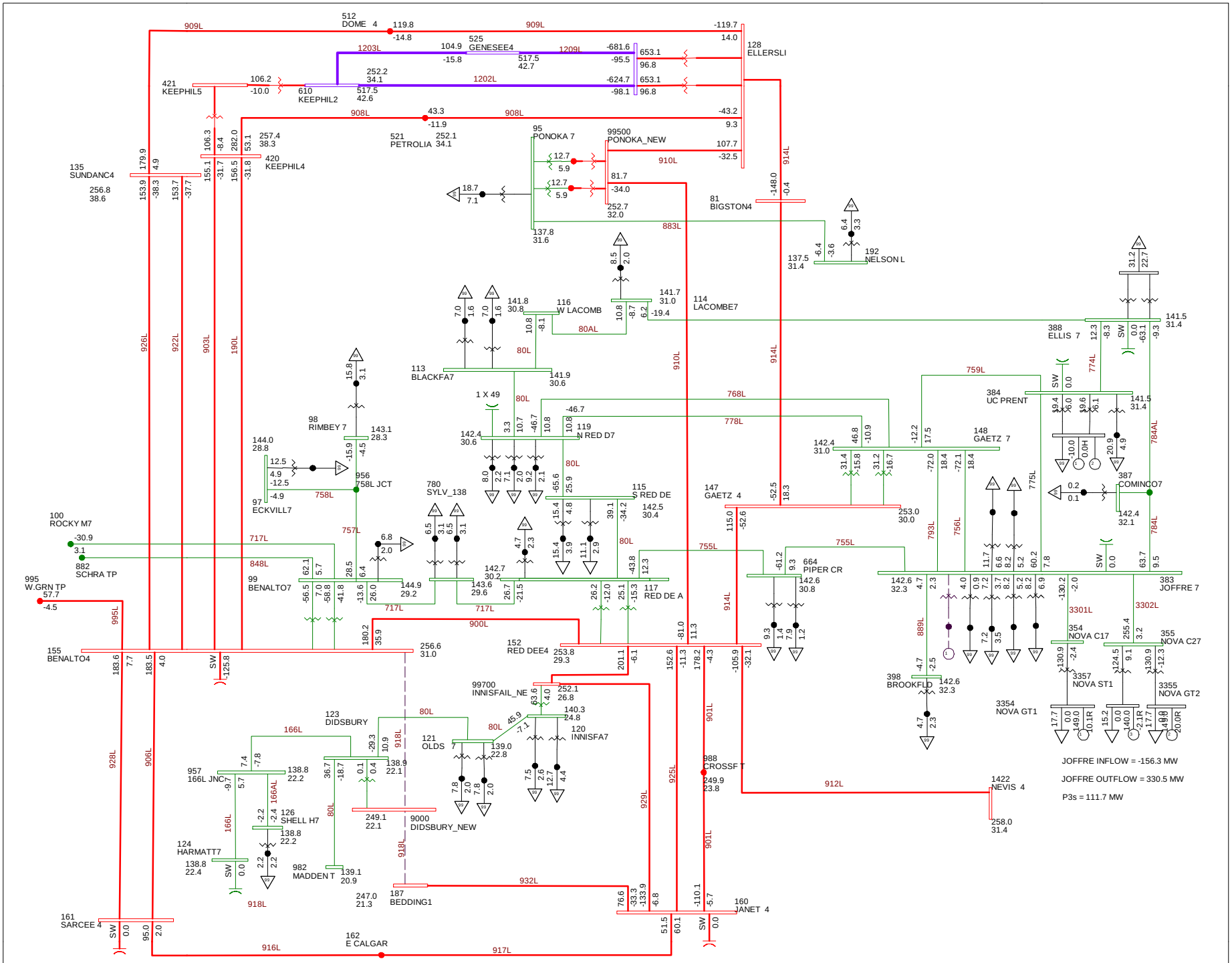
RED DEER REGION STUDY

2012 SUMMER LIGHT BASE CASE REVISION 6.5

FIG 2012-ALT2-LOAD-SL-C3-4: 918L(BENALTO 17S TO DIDSBURY 152 900L(BENALTO 17S TO RED DEER 63S) OUTAGE
WED, MAR 02 2011 8:06

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-413



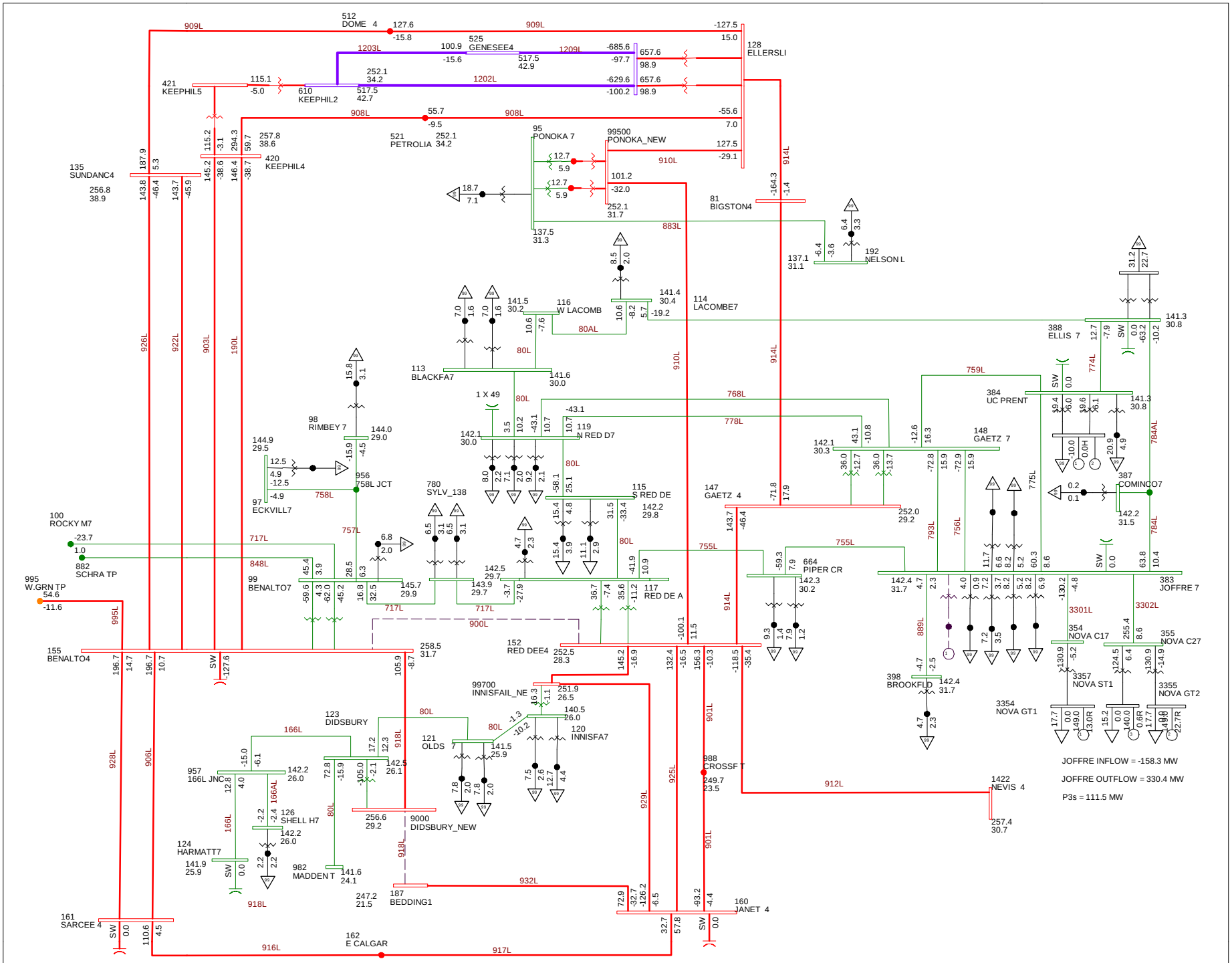
RED DEER REGION STUDY

2012 SUMMER LIGHT BASE CASE REVISION 6.5

FIG 2012-ALT2-LOAD-SL-C3-5: 918L(BENALTO 17S TO DIDSBURY 152 918L(DIDSBURY 152S TO BEDDING 162) OUTAGE
WED, MAR 02 2011 8:06

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-414



RED DEER REGION STUDY

2012 SUMMER LIGHT BASE CASE REVISION 6.5

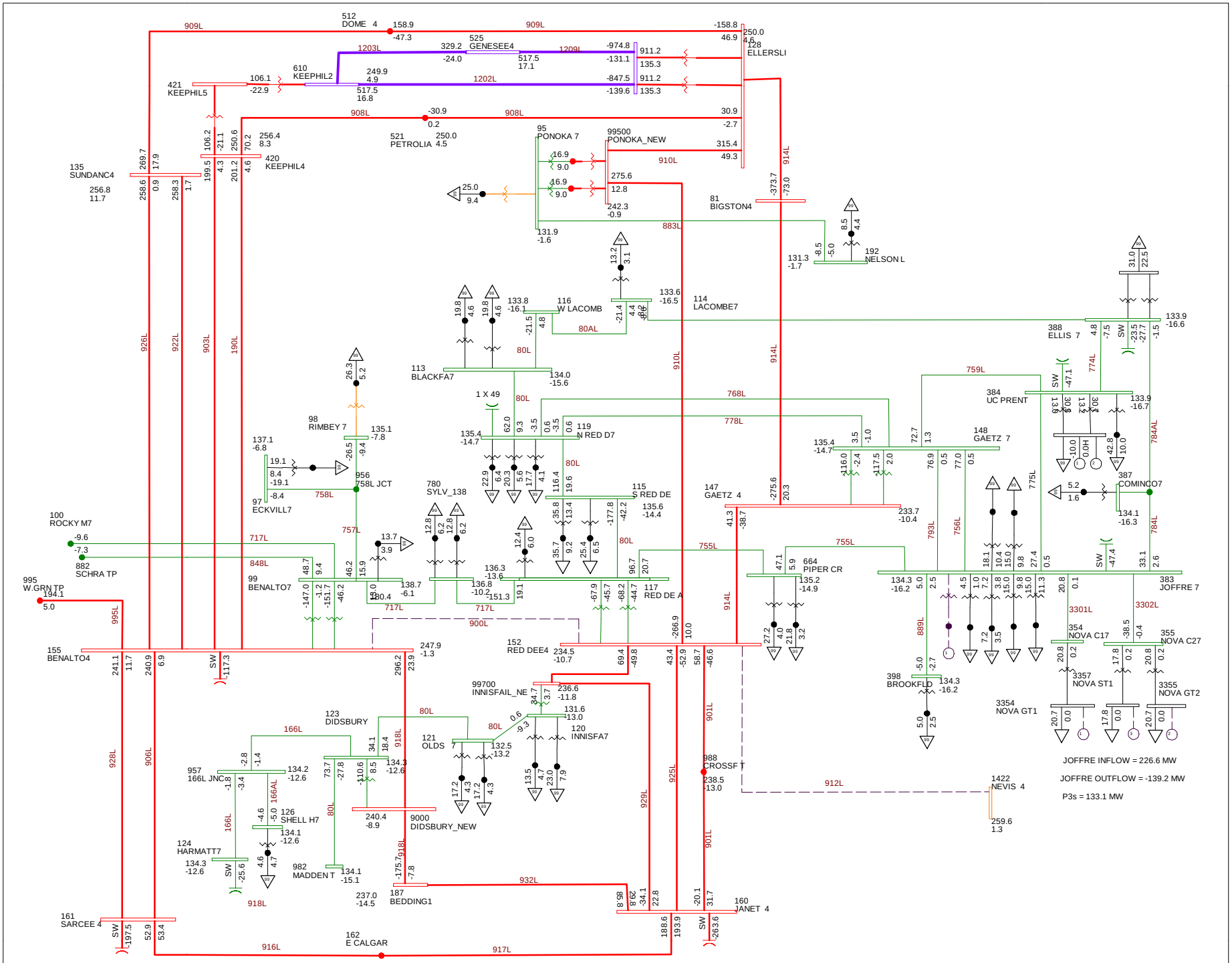
FIG 2012-ALT2-LOAD-SL-C3-6: 900L (RED DEER 63S TO BENALTO 17
918L(DIDSBURY 152S TO BEDDING 162) OUTAGE
WED, MAR 02 2011 8:06

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-415

Table D-2012-8: Summary of 2012 Load Adequacy Power Flow Analysis - Alternative 2 Category C3 (WP with Nova OFF)

Figure No.	Contingency	Overloaded Element	Percent Overload	Other System Performance Concerns	SPS
Winter Peak					
Fig 2012-Alt2-Load-WP-C3-1 (Nova Off)	9L12(Nevis 766S to Red Deer 63S) 900L(Benalto 17S to Red Deer 63S)	None	N/A	None	None
Fig 2012-Alt2-Load-WP-C3-2 (Nova Off)	9L12(Nevis 766S to Red Deer 63S) 918L(Didsbury 152S to Bedding 162)	None	N/A	None	None
Fig 2012-Alt2-Load-WP-C3-3 (Nova Off)	9L12(Nevis 766S to Red Deer 63S) 918L(Benalto 17S to Didsbury 152S)	None	N/A	None	None
Fig 2012-Alt2-Load-WP-C3-4 (Nova Off)	918L(Benalto 17S to Didsbury 152S) 900L(Benalto 17S to Red Deer 63S)	None	N/A	None	None
Fig 2012-Alt2-Load-WP-C3-5 (Nova Off)	918L(Benalto 17S to Didsbury 152S) 918L(Didsbury 152S to Bedding 162)	None	N/A	None	None
Fig 2012-Alt2-Load-WP-C3-6 (Nova Off)	900L (Red Deer 63S to Benalto 17S) 918L(Didsbury 152S to Bedding 162)	None	N/A	None	None

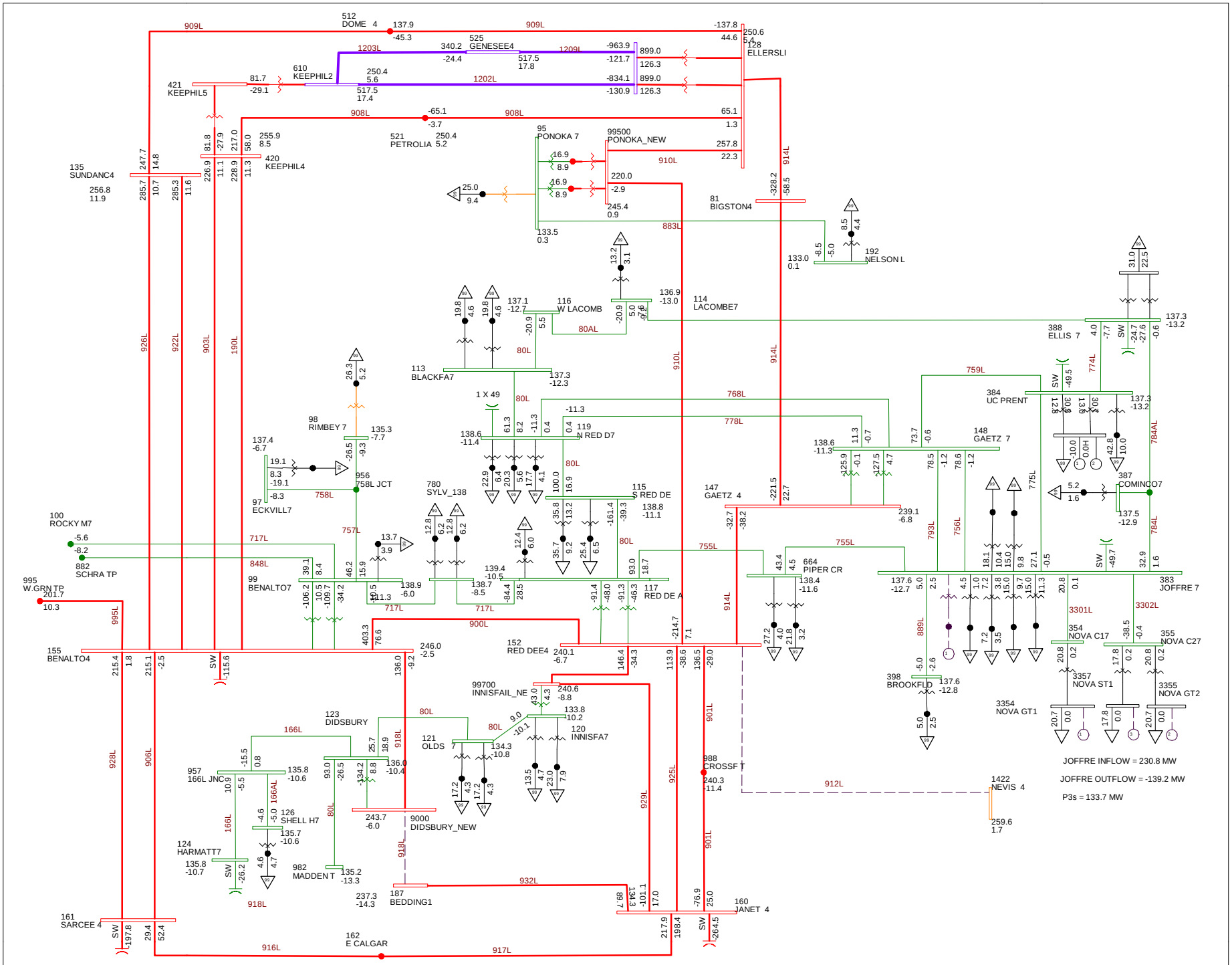


RED DEER REGION STUDY
2012 WINTER PEAK BASE CASE REVISION 6.5

FIG 2012-ALT2-LOAD-WP-C3-1: 9L12(NEVIS 766S TO RED DEER 63S)
900L(BENALTO 17S TO RED DEER 63S) OUTAGE (NOVA OFF)
WED, MAR 02 2011 8:20

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-417



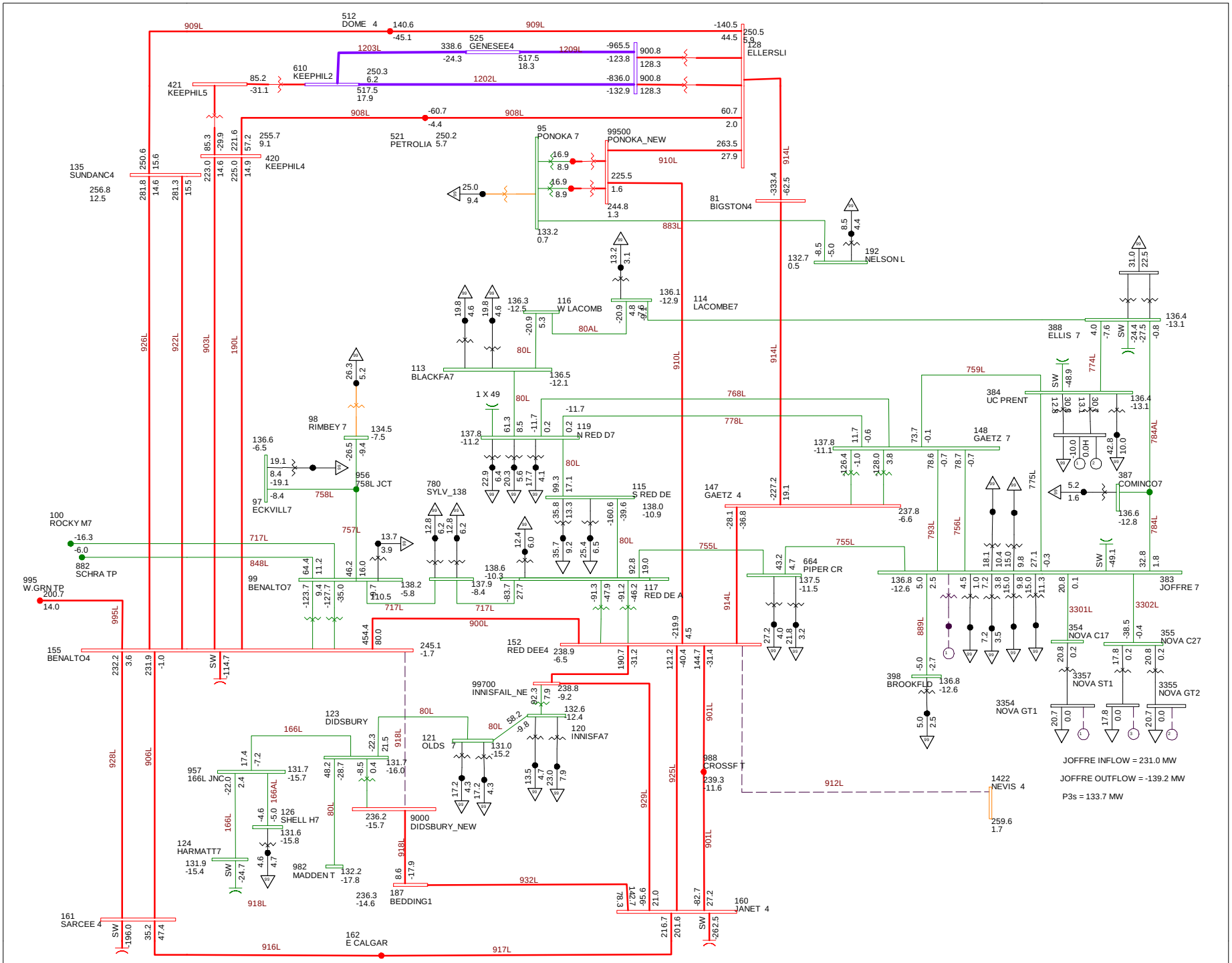
RED DEER REGION STUDY

2012 WINTER PEAK BASE CASE REVISION 6.5

FIG 2012-ALT2-LOAD-WP-C3-2: 9L12(NEVIS 766S TO RED DEER 63S) 918L(DIDSBURY 152S TO BEDDING 162) OUTAGE (NOVA OFF)
WED, MAR 02 2011 8:20

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-418



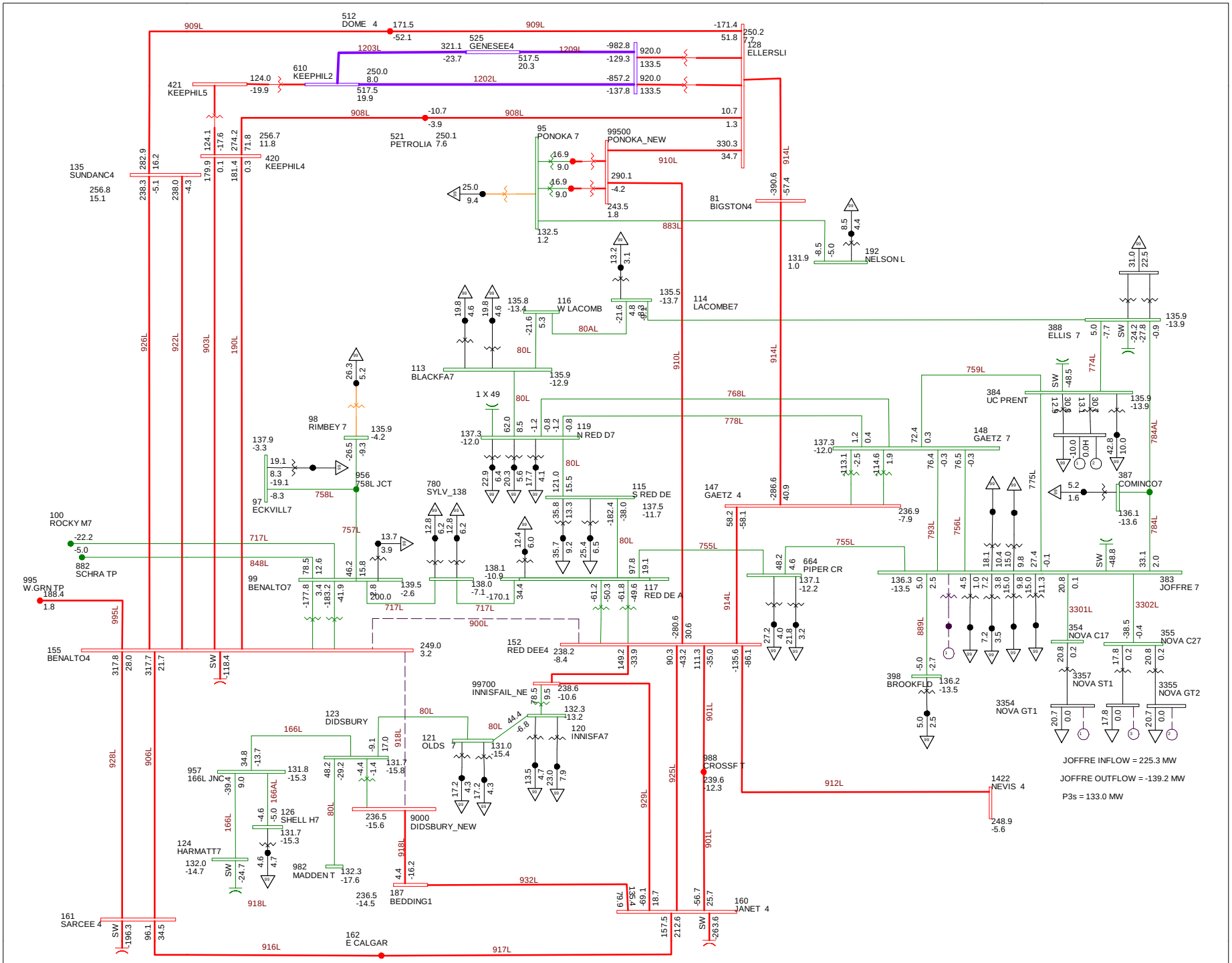
RED DEER REGION STUDY

2012 WINTER PEAK BASE CASE REVISION 6.5

FIG 2012-ALT2-LOAD-WP-C3-3: 9L12(NEVIS 766S TO RED DEER 63S)
918L(BENALTO 17S TO DIDSBURY 152S) OUTAGE (NOVA OFF)
WED, MAR 02 2011 8:20

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-419



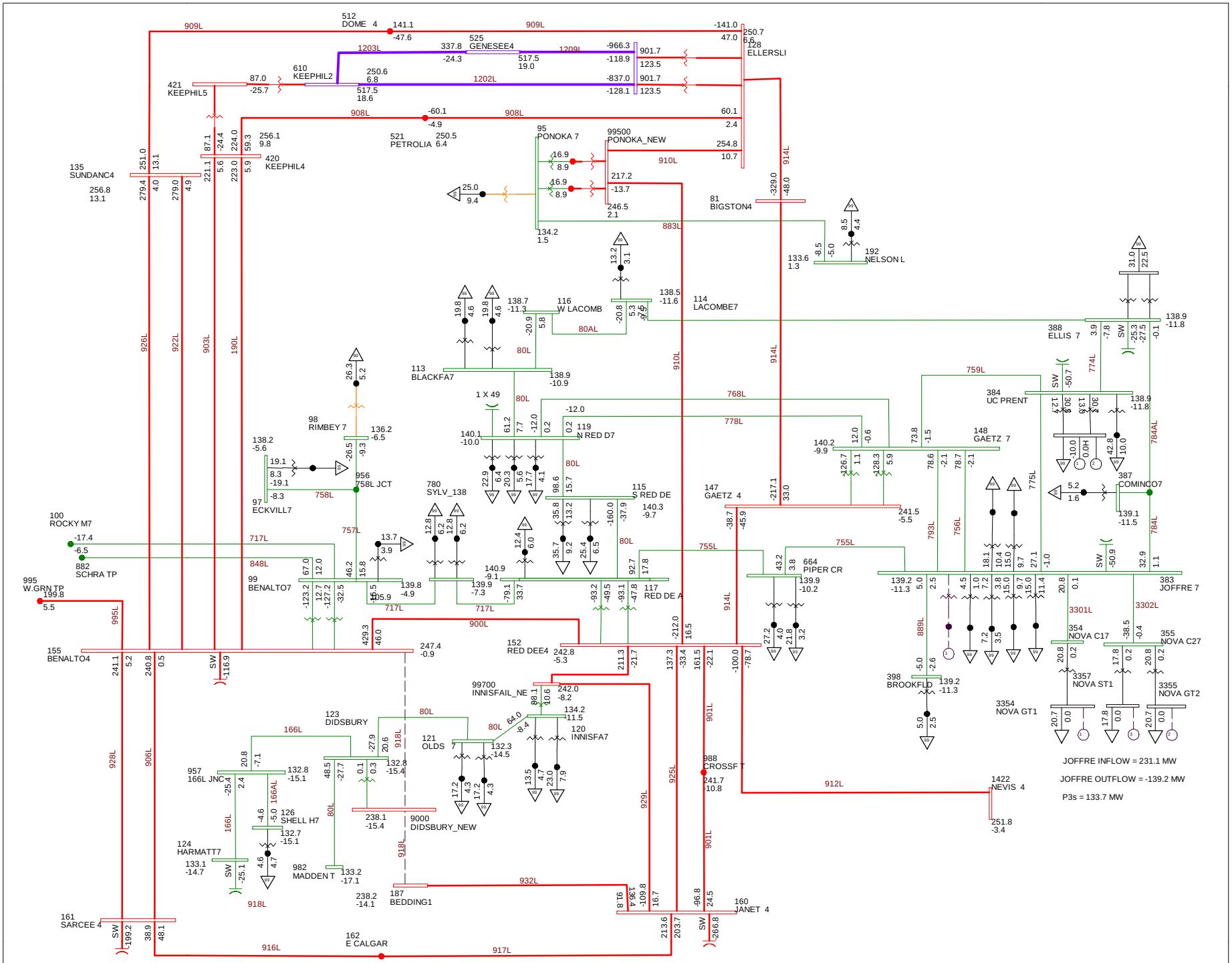
RED DEER REGION STUDY

2012 WINTER PEAK BASE CASE REVISION 6.5

FIG 2012-ALT2-LOAD-WP-C3-4: 918L(BENALTO 17S TO DIDSBURY 152 900L(BENALTO 17S TO RED DEER 63S) OUTAGE (NOVA OFF)
WED, MAR 02 2011 8:20

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-420



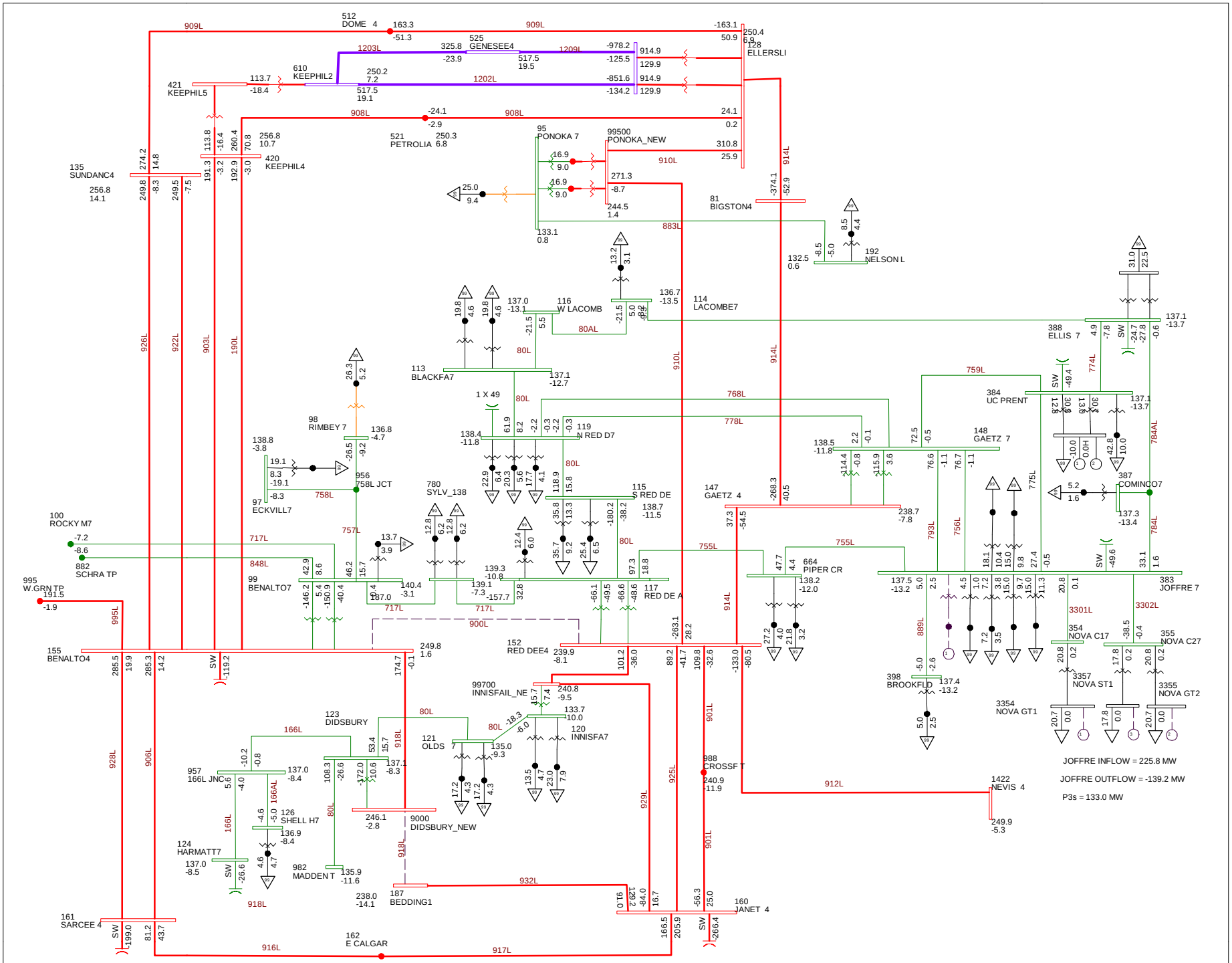
RED DEER REGION STUDY

2012 WINTER PEAK BASE CASE REVISION 6.5

FIG 2012-ALT2-LOAD-WP-C3-5: 918L(BENALTO 17S TO DIDSBURY 152 918L(DIDSBURY 152S TO BEDDING 162) OUTAGE (NOVA OFF)
WED, MAR 02 2011 8:20

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-421



RED DEER REGION STUDY

2012 WINTER PEAK BASE CASE REVISION 6.5

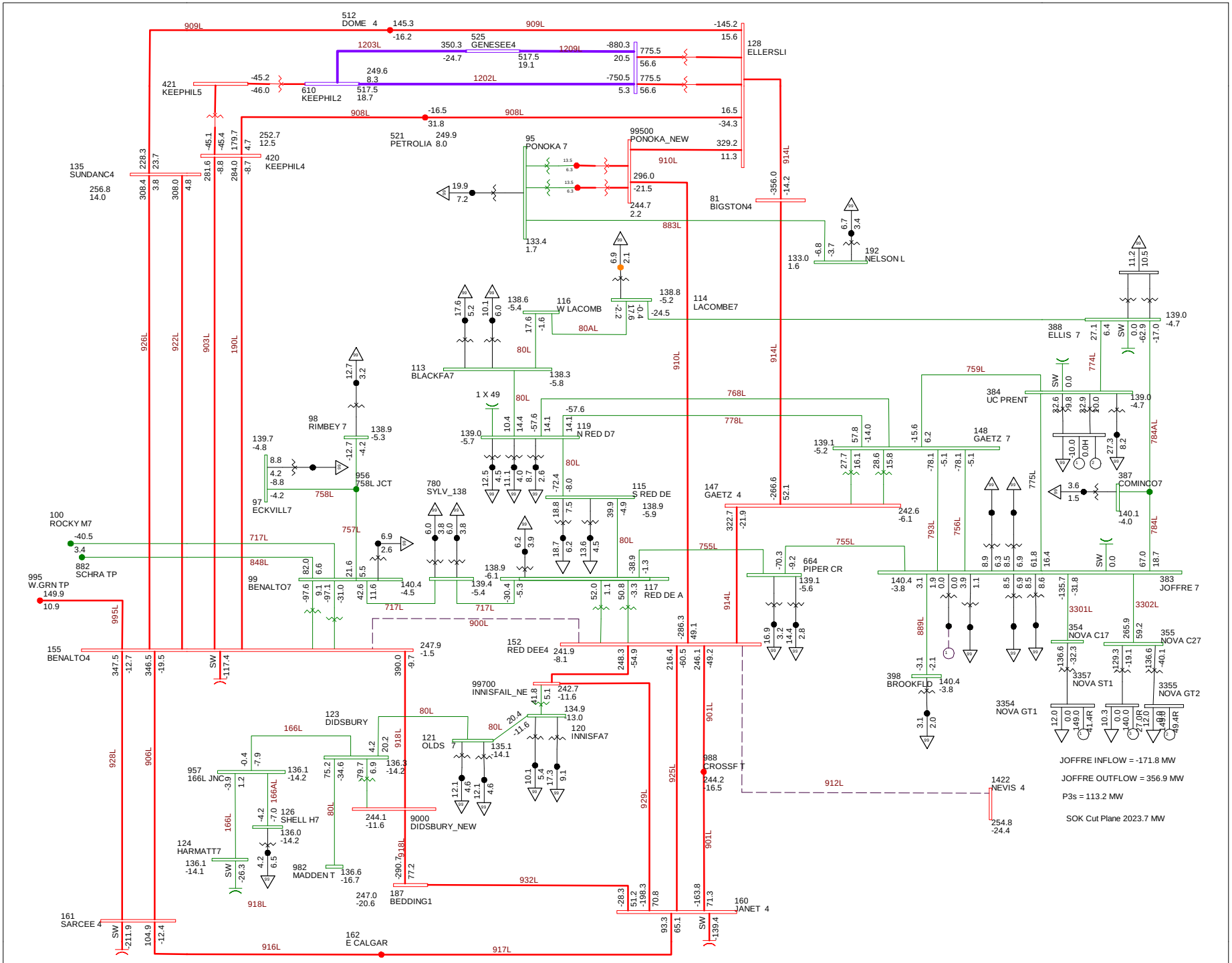
FIG 2012-ALT2-LOAD-WP-C3-6: 900L (RED DEER 63S TO BENALTO 17 918L(DIDSBURY 152S TO BEDDING 162) OUTAGE (NOVA OFF)
WED, MAR 02 2011 8:20

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-422

Table D-2012-9: Summary of 2012 Load Adequacy Power Flow Analysis - Alternative 2 Category C3 (SP with High SOK Plane)

Figure No.	Contingency	Overloaded Element	Percent Overload	Other System Performance Concerns	SPS
Summer Peak					
Fig 2012-Alt2-Load-SP-C3-1 (High SOK)	9L12(Nevis 766S to Red Deer 63S) 900L(Benalto 17S to Red Deer 63S)	None	N/A	None	None
Fig 2012-Alt2-Load-SP-C3-2 (High SOK) / Fig 2012-Alt2-Load-SP-C3-2-1 (High SOK)	9L12(Nevis 766S to Red Deer 63S) 918L(Didsbury 152S to Bedding 162)	80L Didsbury 152S to Madden Tap	101%	None	20MW Generation Curtailment at Nova Complex
Fig 2012-Alt2-Load-SP-C3-3 (High SOK)	9L12(Nevis 766S to Red Deer 63S) 918L(Benalto 17S to Didsbury 152S)	None	N/A	None	None
Fig 2012-Alt2-Load-SP-C3-4 (High SOK)	918L(Benalto 17S to Didsbury 152S) 900L(Benalto 17S to Red Deer 63S)	None	N/A	None	None
Fig 2012-Alt2-Load-SP-C3-5 (High SOK)	918L(Benalto 17S to Didsbury 152S) 918L(Didsbury 152S to Bedding 162)	None	N/A	None	None
Fig 2012-Alt2-Load-SP-C3-6 (High SOK) / Fig 2012-Alt2-Load-SP-C3-6-1 (High SOK)	900L (Red Deer 63S to Benalto 17S) 918L(Didsbury 152S to Bedding 162)	80L Didsbury 152S to Madden Tap	104%	None	80MW Generation Curtailment at Sundance

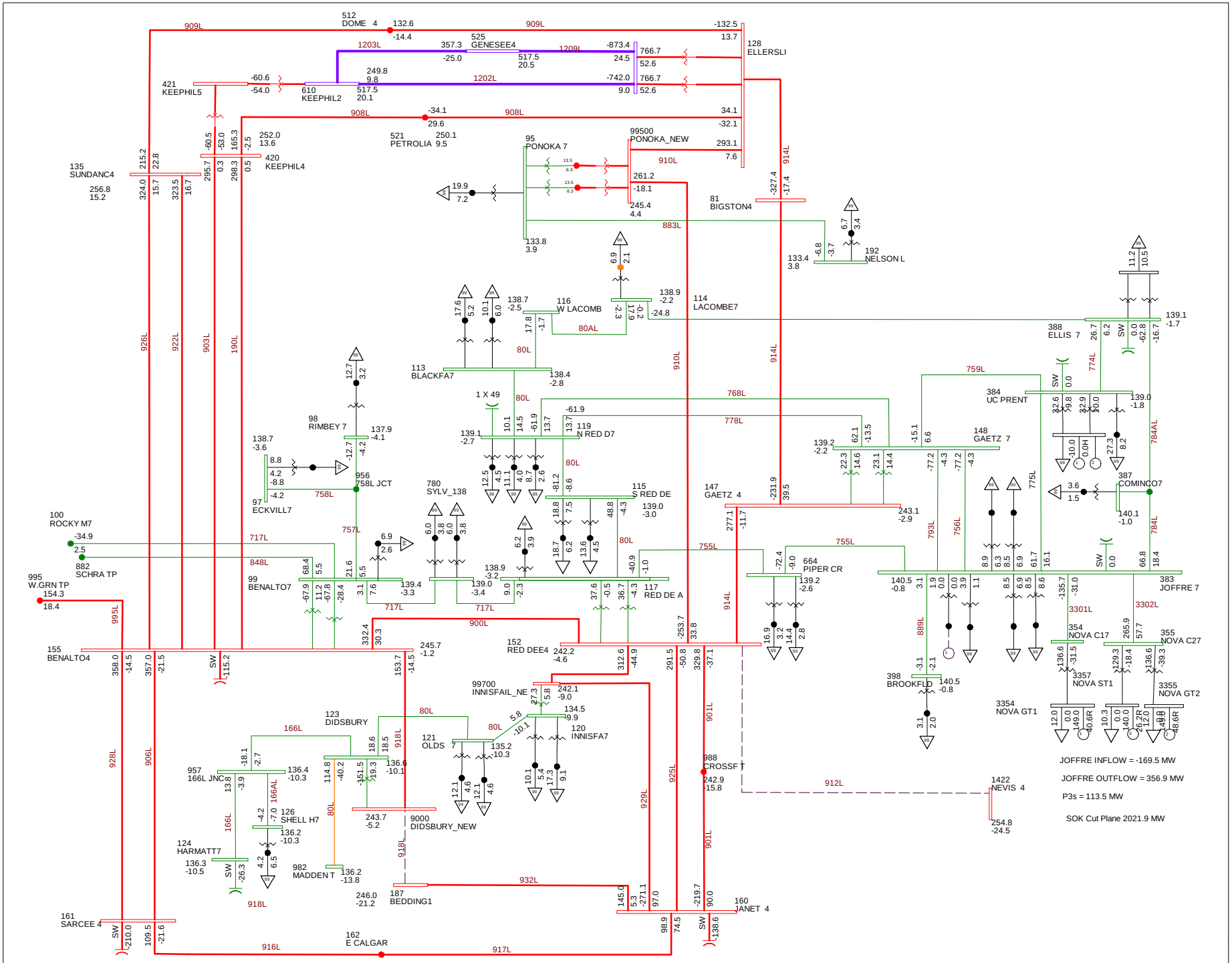


RED DEER REGION STUDY
2012 S3_SOK_PK (2012 SUMMER PEAK CASE)

FIG 2012-ALT2-LOAD-SP-C3-1(HIGH SOK): 9L12(NEVIS 766S TO RED 900L(BENALTO 17S TO RED DEER 63S) OUTAGE
WED, MAR 02 2011 7:34

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-424

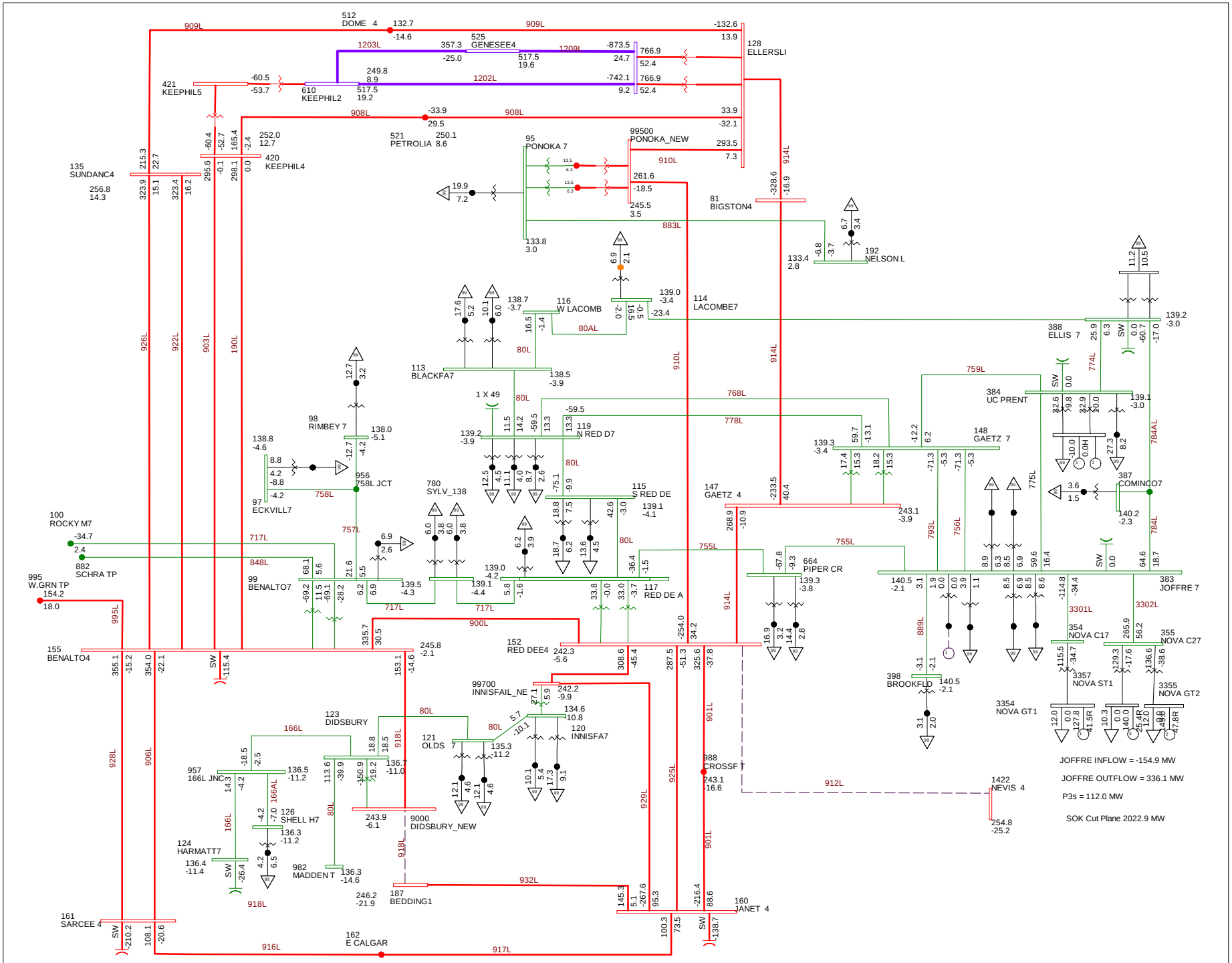


RED DEER REGION STUDY
2012 S3_SOK_PK (2012 SUMMER PEAK CASE)

FIG 2012-ALT2-LOAD-SP-C3-2(HIGH SOK): 9L12(NEVIS 766S TO RED 918L(DIDSBURY 152S TO BEDDING 162) OUTAGE
WED, MAR 02 2011 7:34

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-425

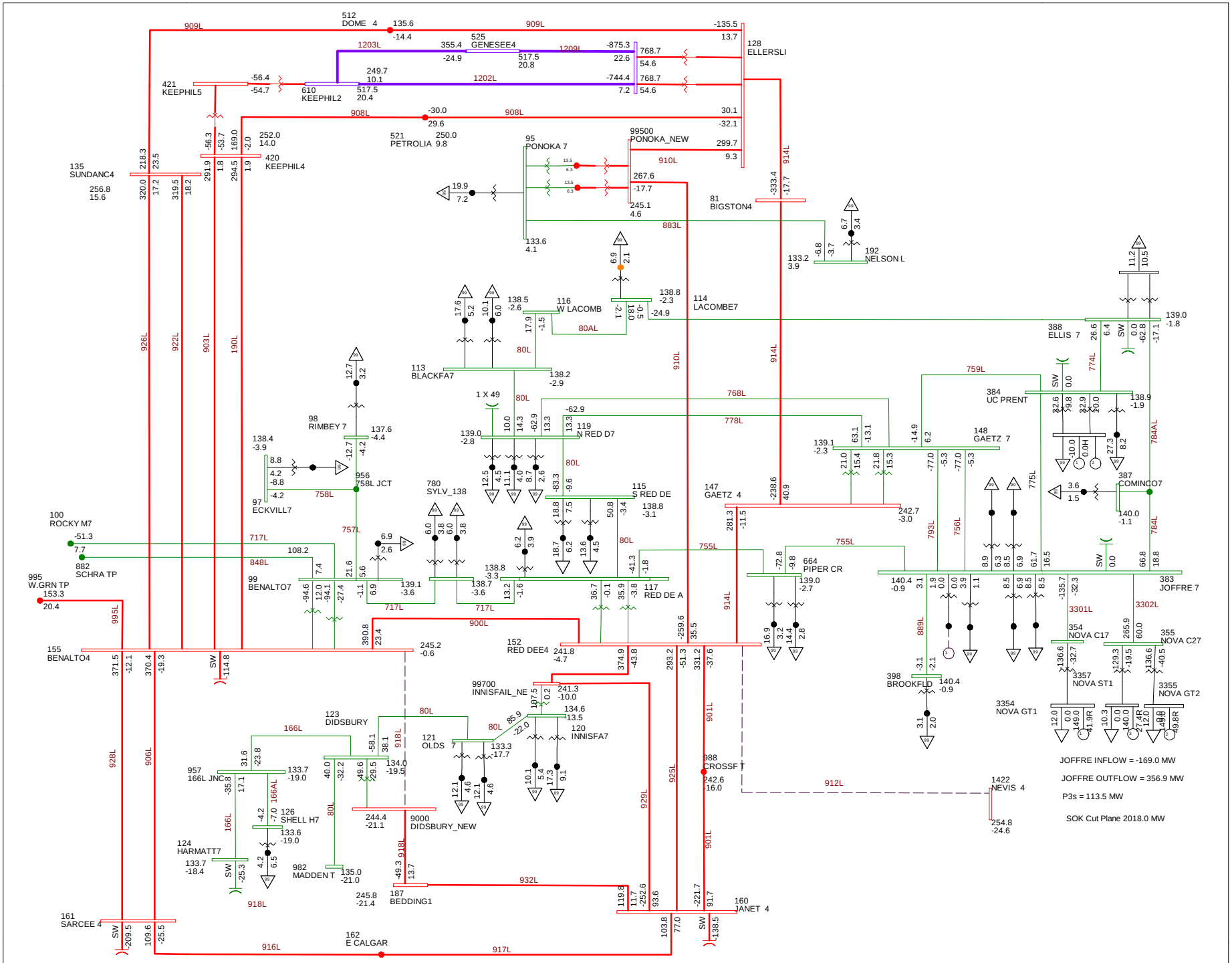


RED DEER REGION STUDY
2012 S3_SOK_PK (2012 SUMMER PEAK CASE)

FIG 2012-ALT2-LOAD-SP-C3-2-1(HIGH SOK): 9L12(NEVIS 766S TO R 918L(DIDSBURY 152S TO BEDDING 162) OUTAGE WITH RAS
WED, MAR 02 2011 7:34

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-426



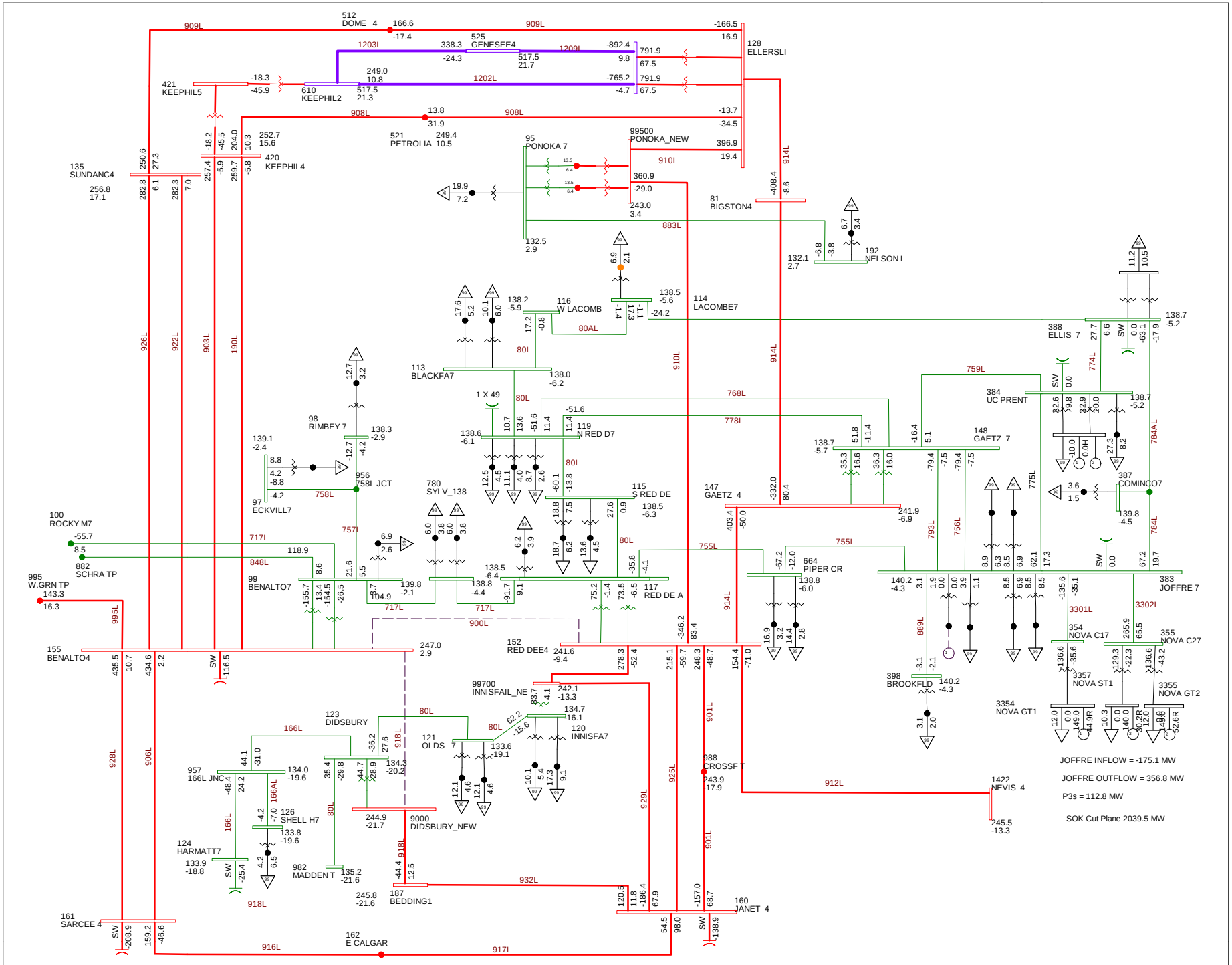
RED DEER REGION STUDY

2012 S3_SOK_PK (2012 SUMMER PEAK CASE)

FIG 2012-ALT2-LOAD-SP-C3-3(HIGH SOK): 9L12(NEVIS 766S TO RED 918L(BENALTO 17S TO DIDSBURY 152S) OUTAGE
WED, MAR 02 2011 7:34

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-427



RED DEER REGION STUDY

2012 S3_SOK_PK (2012 SUMMER PEAK CASE)

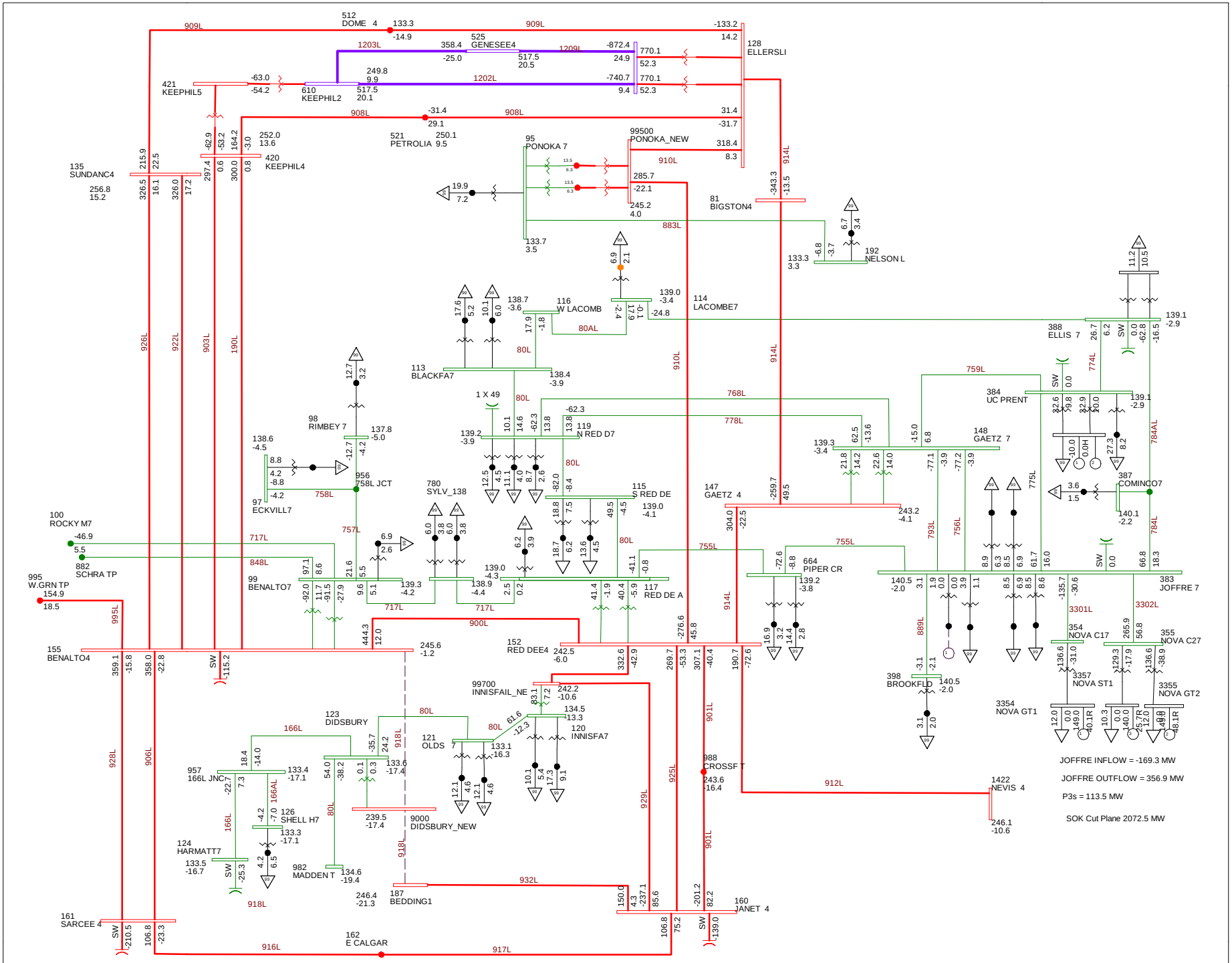
FIG 2012-ALT2-LOAD-SP-C3-4(HIGH SOK): 918L(BENALTO 17S TO DI 900L(BENALTO 17S TO RED DEER 63S) OUTAGE

WED, MAR 02 2011 7:34

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR

<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-428

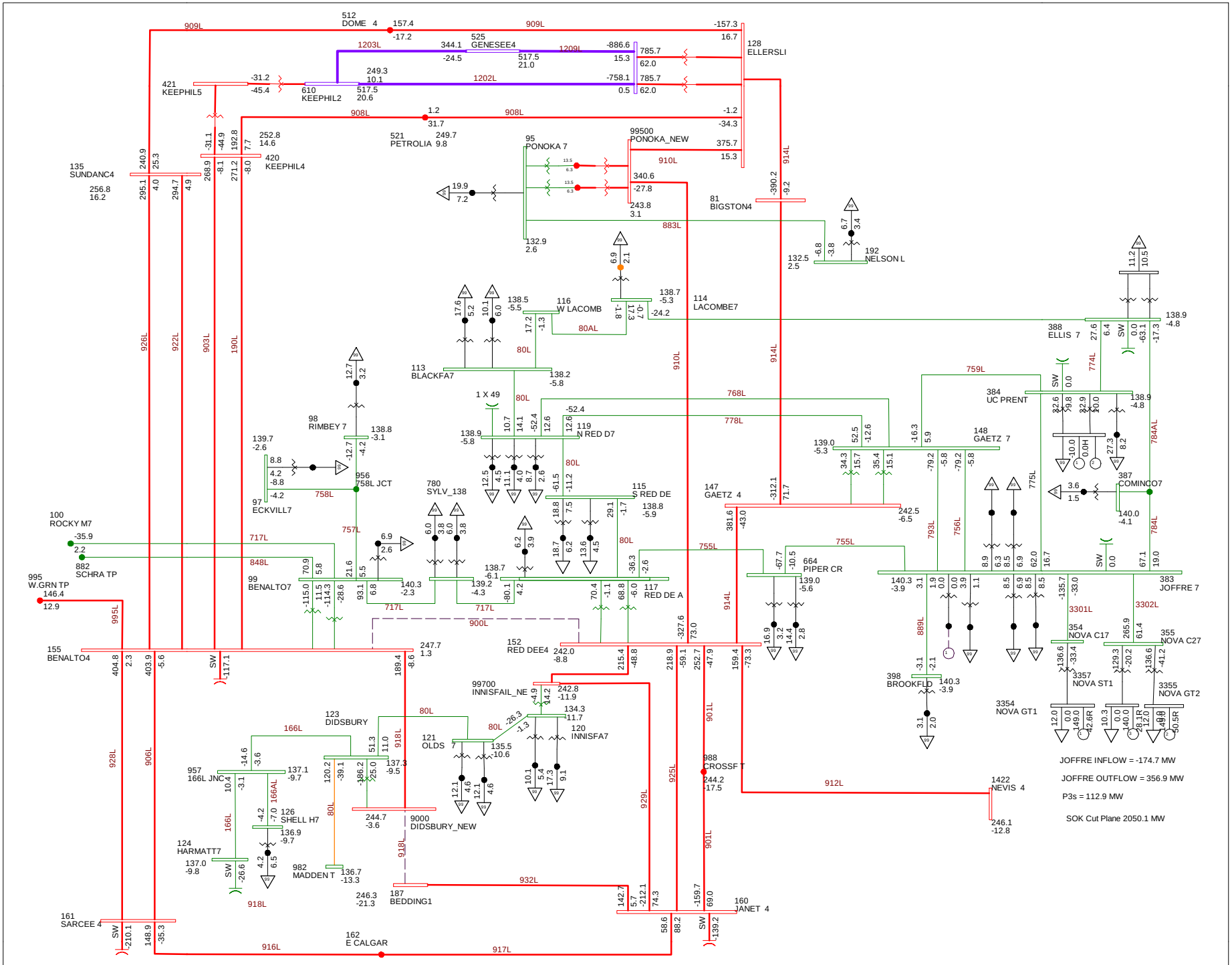


RED DEER REGION STUDY
2012 S3_SOK_PK (2012 SUMMER PEAK CASE)

FIG 2012-ALT2-LOAD-SP-C3-5(HIGH SOK): 918L(BENALTO 17S TO DI 918L(DIDSBURY 152S TO BEDDING 162) OUTAGE
WED, MAR 02 2011 7:34

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-429

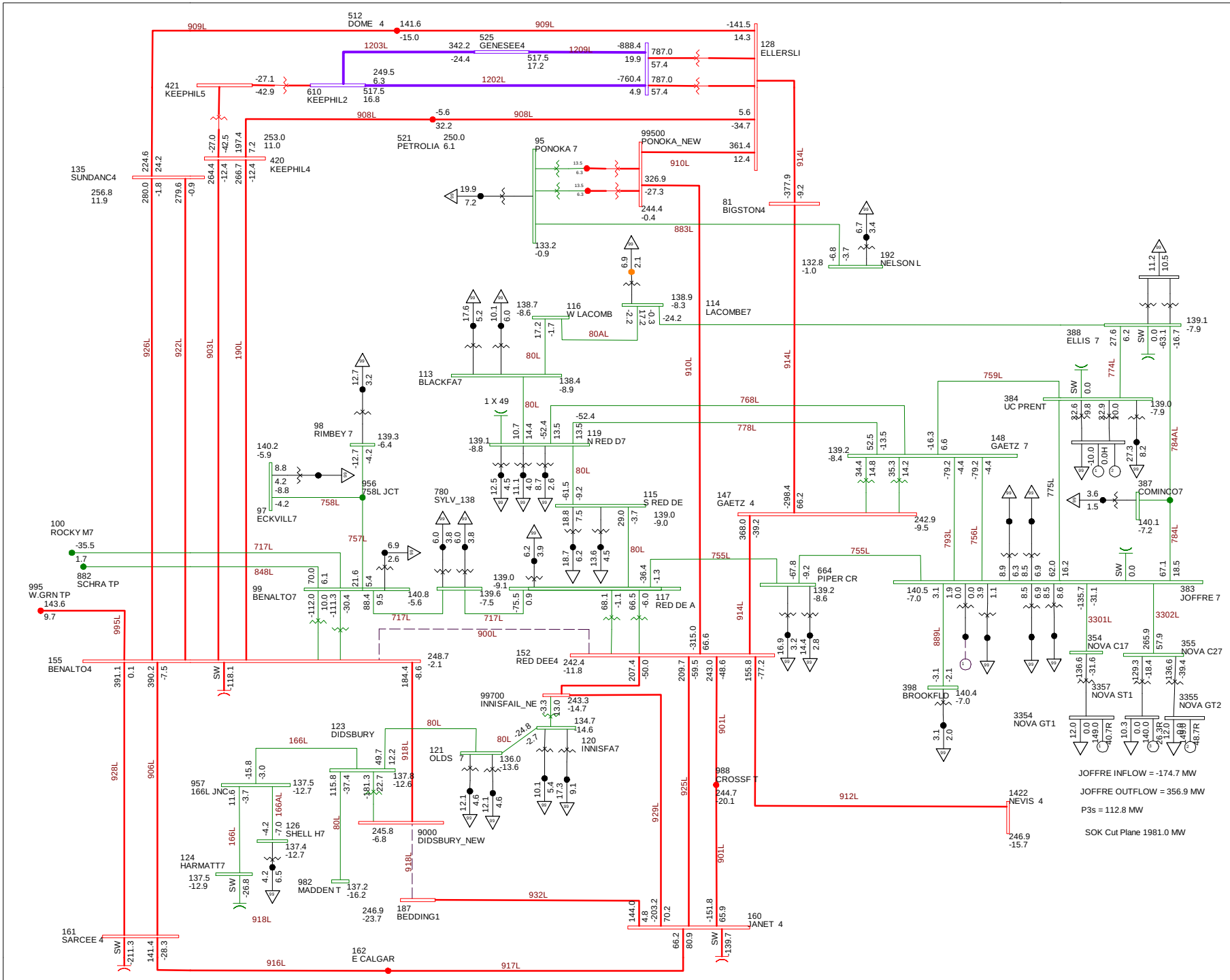


RED DEER REGION STUDY
2012 S3_SOK_PK (2012 SUMMER PEAK CASE)

FIG 2012-ALT2-LOAD-SP-C3-6(HIGH SOK): 900L (RED DEER 63S TO 918L(DIDSBURY 152S TO BEDDING 162) OUTAGE
WED, MAR 02 2011 7:34

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-430



RED DEER REGION STUDY
2012 S3_SOK_PK (2012 SUMMER PEAK CASE)

FIG 2012-ALT2-LOAD-SP-C3-6-1(HIGH SOK): 900L (RED DEER 63S T 918L(DIDSBURY 152S TO BEDDING 162) OUTAGE WITH RAS
WED, MAR 02 2011 7:34

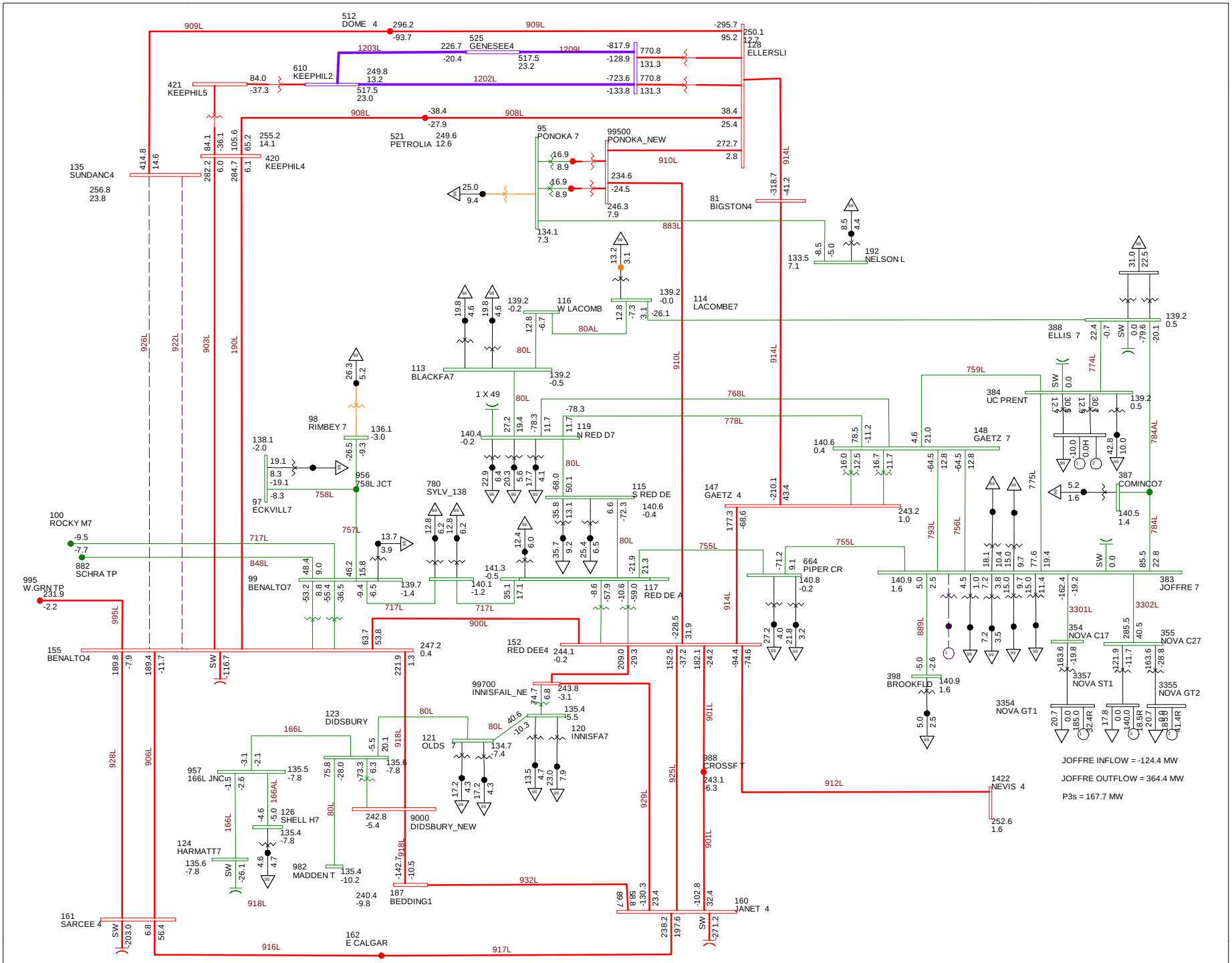
Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-431

Table D-2012-10: Summary of 2012 Load Adequacy Power Flow Analysis - Alternative 2 Category C5

Figure No.	Contingency	Overloaded Element	Percent Overload	Other System Performance Concerns	SPS
Winter Peak					
Fig 2012-Alt2-Load-WP-C5-1	922/926L (Sundance 821S to Benalto 17S)	None	N/A	None	None
Fig 2012-Alt2-Load-WP-C5-2	190/903L(Keephills 320P to Benalto 17S)	None	N/A	None	None
Fig 2012-Alt2-Load-WP-C5-3	926L (Sundance 821S to Benalto 17S) 995L (Amoco Willesden 68S to Benalto 17S)	None	N/A	None	None
Fig 2012-Alt2-Load-WP-C5-4	928/906L(Benalto 17S to Sarcee 575S)	None	N/A	None	None
Fig 2012-Alt2-Load-WP-C5-5	925L(Red Deer 63S to Janet 74S) 929L (Red Deer 63S to Innisfail 214S)	None	N/A	None	None
Fig 2012-Alt2-Load-WP-C5-6	925L(Red Deer 63S to Janet 74S) 929L (Innisfail 214S to Janet 74S)	None	N/A	None	None
Fig 2012-Alt2-Load-WP-C5-7	910L (Red Deer 63S to Gaetz 87S) 914L (Red Deer 63S to Ponoka 331S)	None	N/A	None	None
Fig 2012-Alt2-Load-WP-C5-8	910L (Bigstone 86S to Gaetz 87S) 914L (Red Deer 63S to Ponoka 331S)	None	N/A	None	None
Fig 2012-Alt2-Load-WP-C5-9	910L (Ellerslie 89S to Ponoka 331S) 914L (Ellerslie 89s to Bigstone 86S)	None	N/A	None	None
Fig 2012-Alt2-Load-WP-C5-10	918L (Bedding 162S to Janet 74S) 929L (Red Deer 63S to Janet 74S)	None	N/A	None	None
Fig 2012-Alt2-Load-WP-C5-11	756/793L(Gaetz 87S to Joffre 535S)	None	N/A	None	None
Fig 2012-Alt2-Load-WP-C5-12	768/778L(N. Red Deer 217S to Gaetz 87S)	None	N/A	None	None
Summer Light					
Fig 2012-Alt2-Load-SL-C5-1	922/926L (Sundance 821S to Benalto 17S)	None	N/A	None	None
Fig 2012-Alt2-Load-SL-C5-2	190/903L(Keephills 320P to Benalto 17S)	None	N/A	None	None
Fig 2012-Alt2-Load-SL-C5-3	926L (Sundance 821S to Benalto 17S) 995L (Amoco Willesden 68S to Benalto 17S)	None	N/A	None	None
Fig 2012-Alt2-Load-SL-C5-4	928/906L(Benalto 17S to Sarcee 575S)	None	N/A	None	None
Fig 2012-Alt2-Load-SL-C5-5	925L(Red Deer 63S to Janet 74S) 929L (Red Deer 63S to Innisfail 214S)	None	N/A	None	None
Fig 2012-Alt2-Load-SL-C5-6	925L(Red Deer 63S to Janet 74S) 929L (Innisfail 214S to Janet 74S)	None	N/A	None	None

Figure No.	Contingency	Overloaded Element	Percent Overload	Other System Performance Concerns	SPS
Fig 2012-Alt2-Load-SL-C5-7	910L (Red Deer 63S to Gaetz 87S) 914L (Red Deer 63S to Ponoka 331S)	None	N/A	None	None
Fig 2012-Alt2-Load-SL-C5-8	910L (Bigstone 86S to Gaetz 87S) 914L (Red Deer 63S to Ponoka 331S)	None	N/A	None	None
Fig 2012-Alt2-Load-SL-C5-9	910L (Ellerslie 89S to Ponoka 331S) 914L (Ellerslie 89s to Bigstone 86S)	None	N/A	None	None
Fig 2012-Alt2-Load-SL-C5-10	918L (Bedding 162S to Janet 74S) 929L (Red Deer 63S to Janet 74S)	None	N/A	None	None
Fig 2012-Alt2-Load-SL-C5-11	756/793L(Gaetz 87S to Joffre 535S)	None	N/A	None	None
Fig 2012-Alt2-Load-SL-C5-12	768/778L(N. Red Deer 217S to Gaetz 87S)	None	N/A	None	None



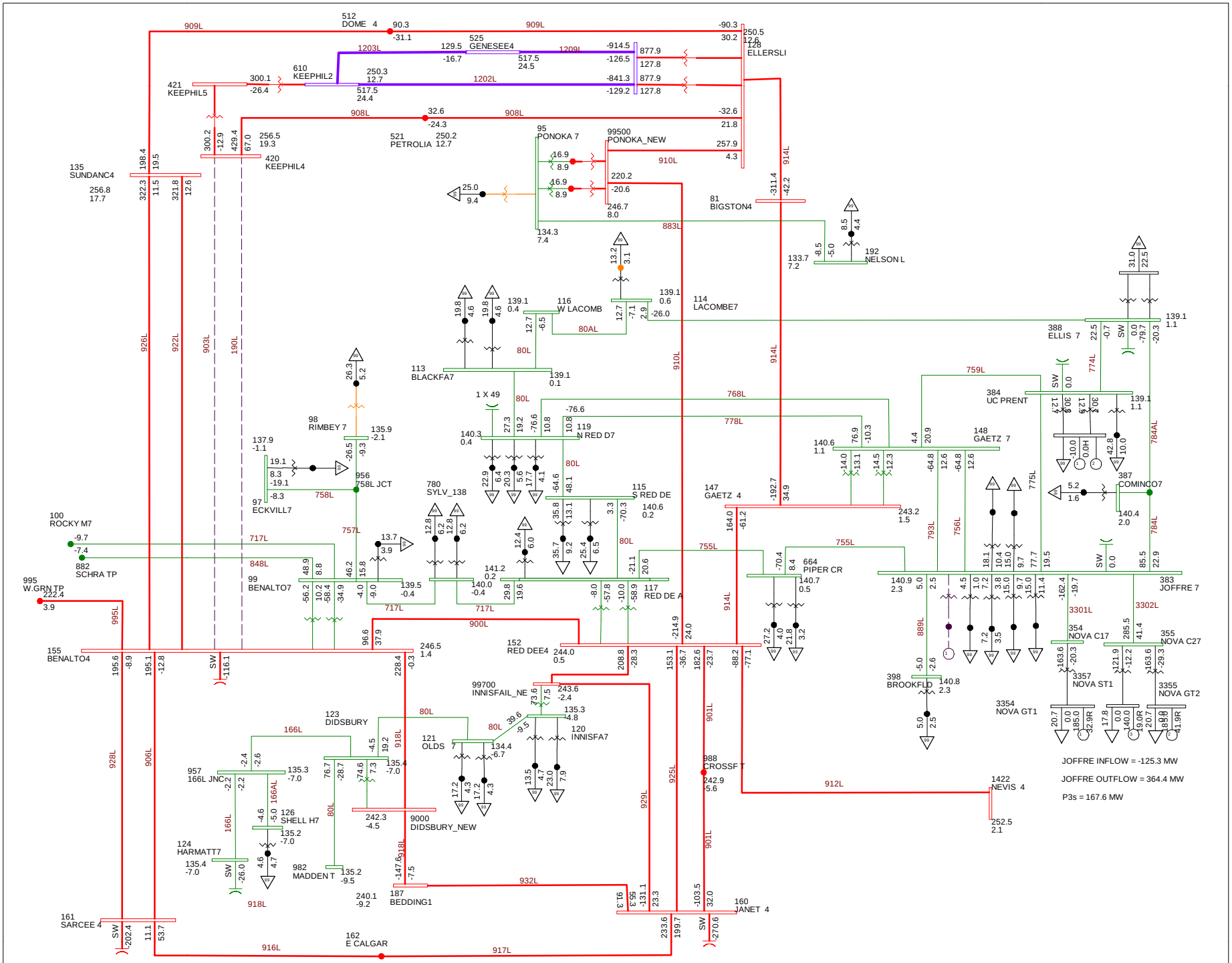
RED DEER REGION STUDY

2012 WINTER PEAK BASE CASE REVISION 6.5

FIG 2012-ALT2-LOAD-WP-C5-1: 922/926L
SUNDANCE 821S TO BENALTO 17S OUTAGE
WED, MAR 02 2011 8:34

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-434

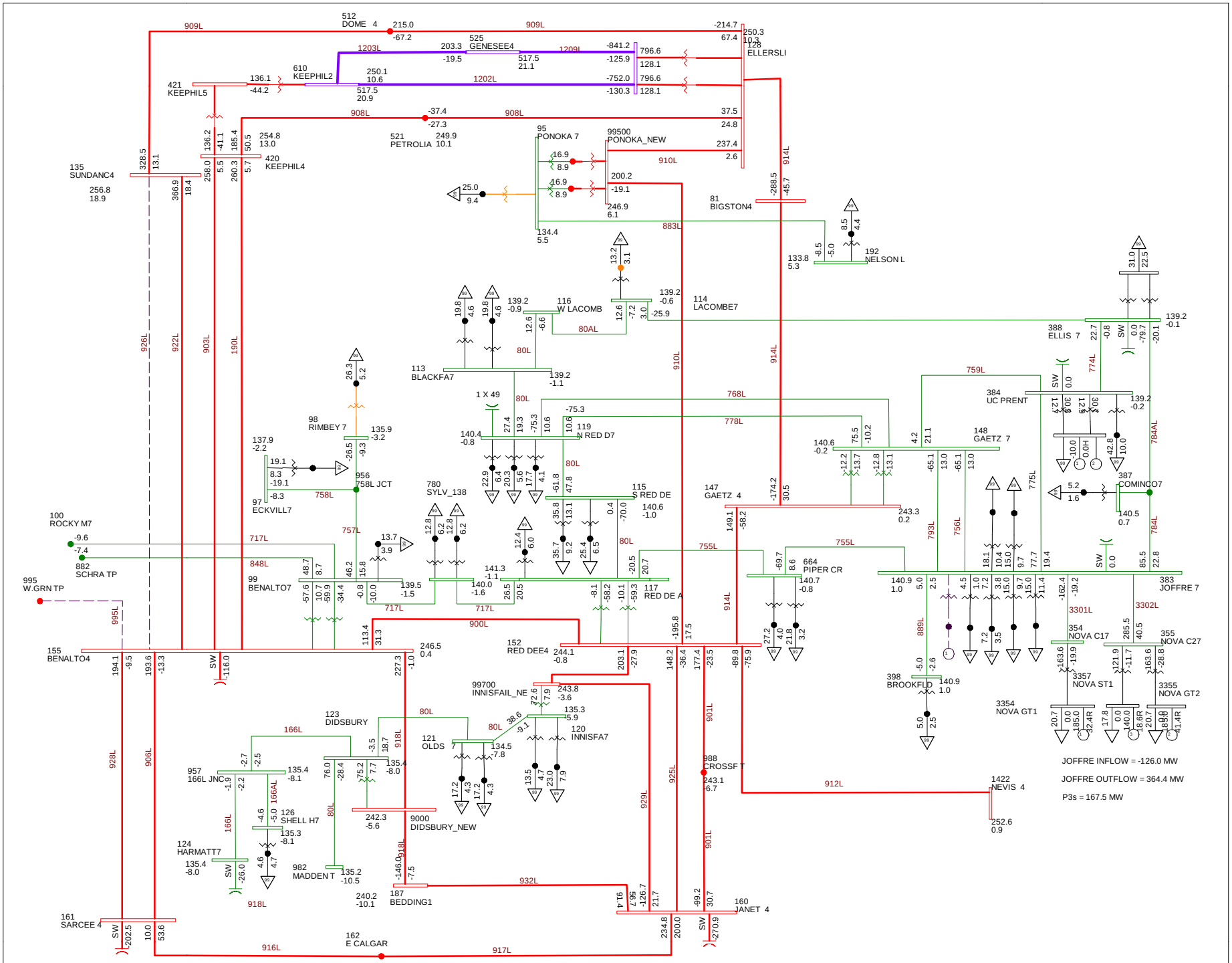


RED DEER REGION STUDY
2012 WINTER PEAK BASE CASE REVISION 6.5

FIG 2012-ALT2-LOAD-WP-C5-2: 190/903L
KEEPHILLS 320PS TO BENALTO 17S OUTAGE
WED, MAR 02 2011 8:34

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-435



RED DEER REGION STUDY

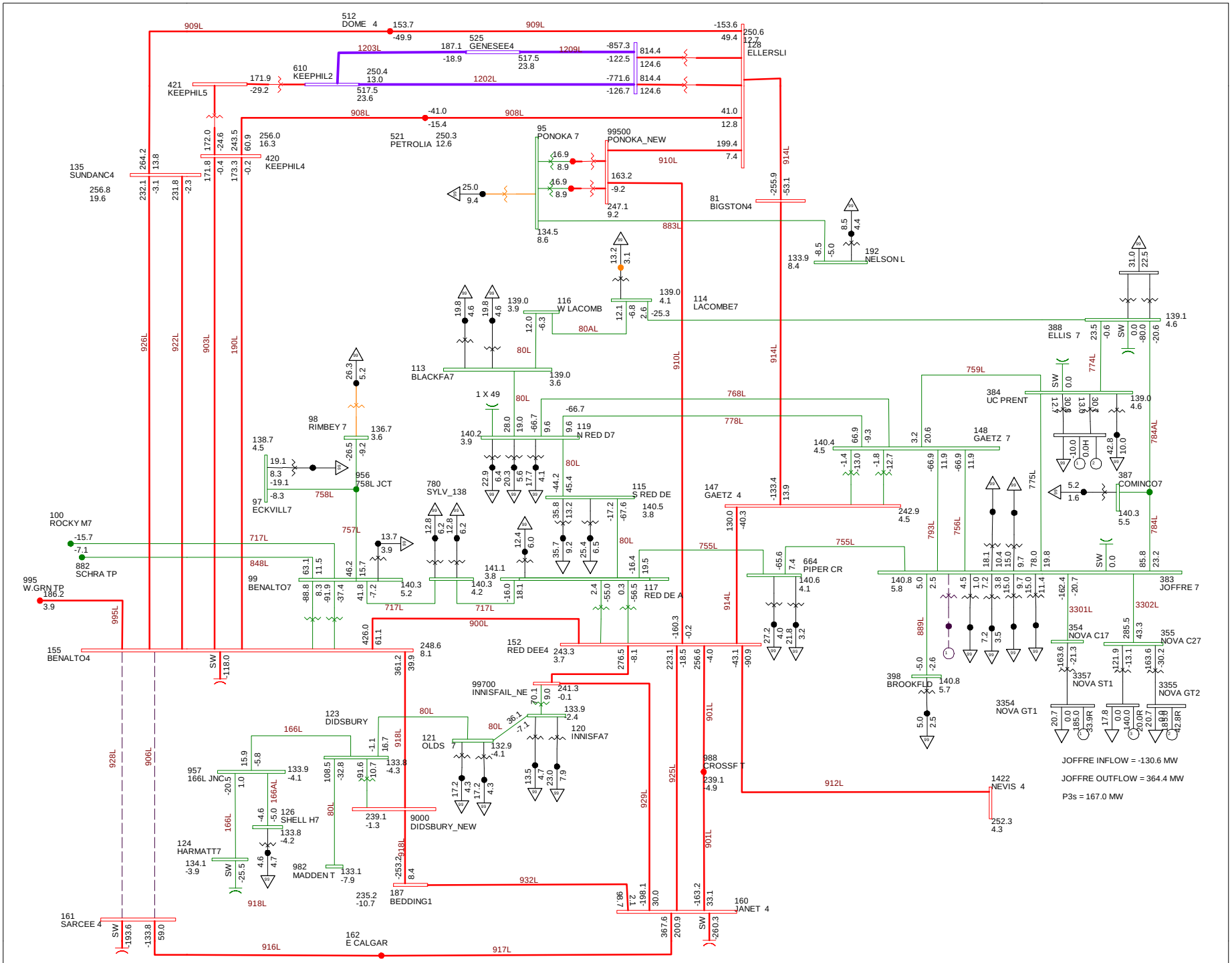
2012 WINTER PEAK BASE CASE REVISION 6.5

FIG 2012-ALT2-LOAD-WP-C5-3: 926L SUNDANCE 821S TO BENALTO 17
995L AMOCO WILLESDEN 68S TO BENALTO 17S OUTAGE
WED, MAR 02 2011 8:34

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR

<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-436

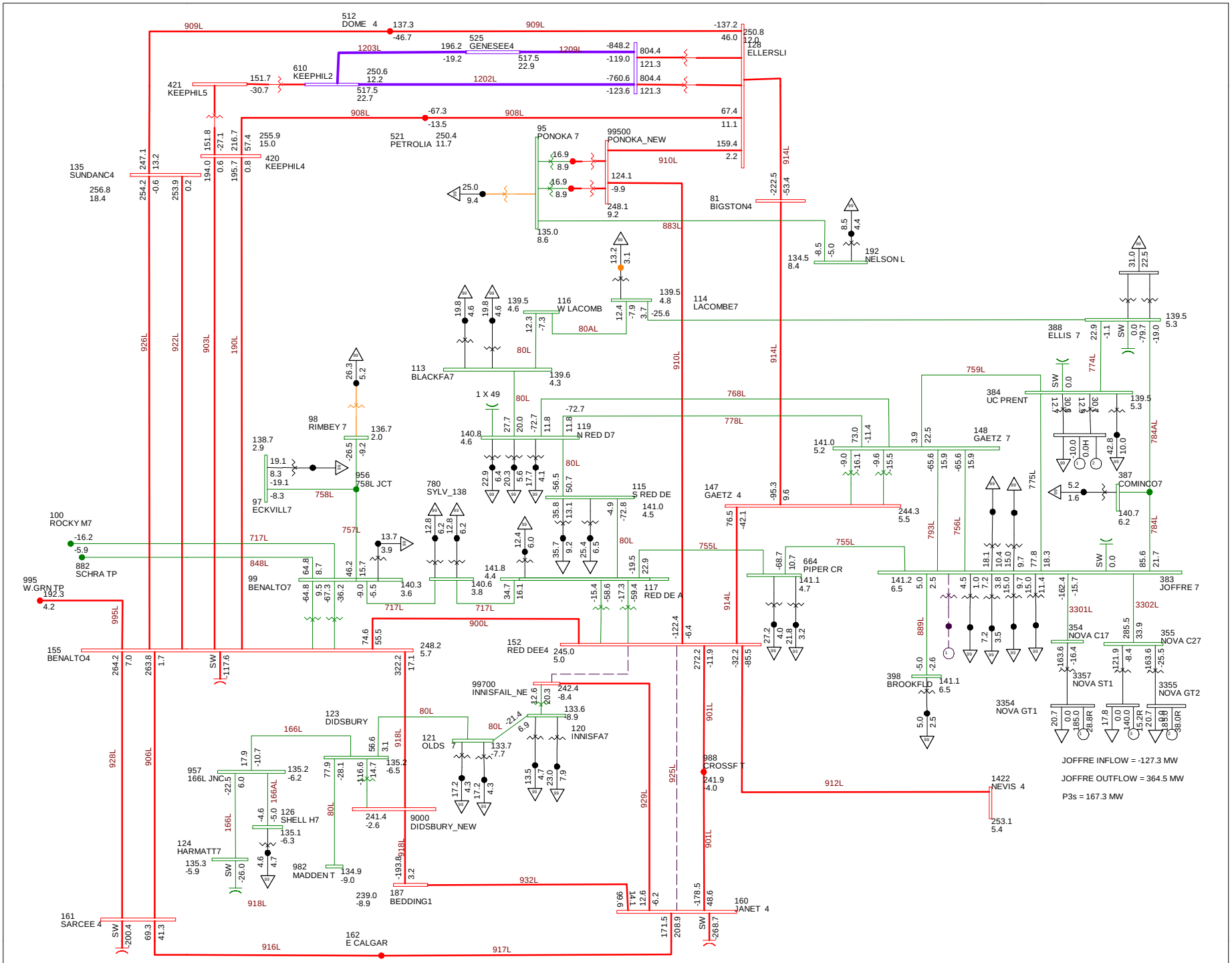


RED DEER REGION STUDY
2012 WINTER PEAK BASE CASE REVISION 6.5

FIG 2012-ALT2-LOAD-WP-C5-4: 928/906L
BENALTO 17S TO SARCEE575S OUTAGE
WED, MAR 02 2011 8:34

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-437



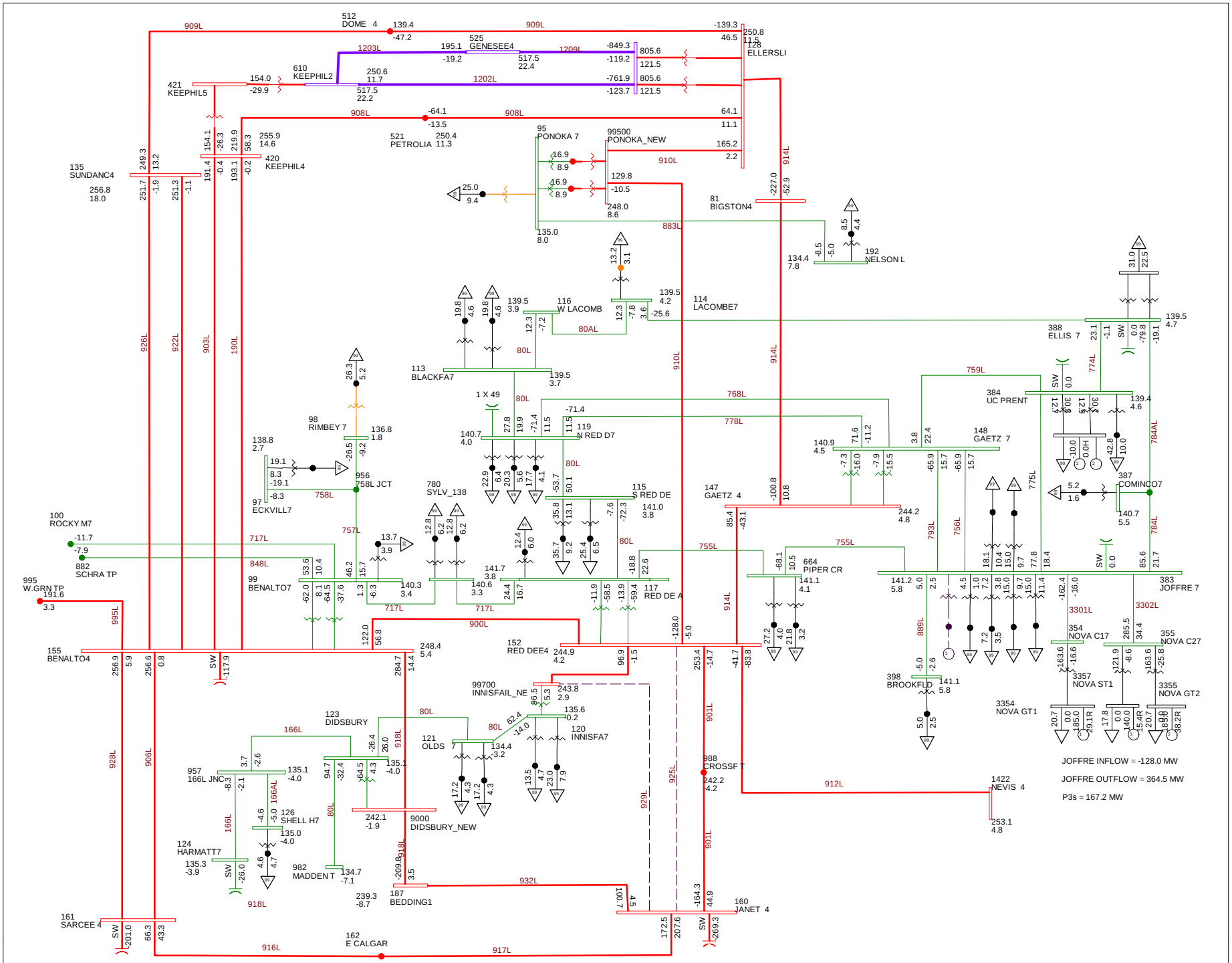
RED DEER REGION STUDY

2012 WINTER PEAK BASE CASE REVISION 6.5

FIG 2012-ALT2-LOAD-WP-C5-5: 925L RED DEER 63S TO JANET 74S
RED DEER 63S TO INNISFAILS 214S OUTAGE
WED, MAR 02 2011 8:34

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-438

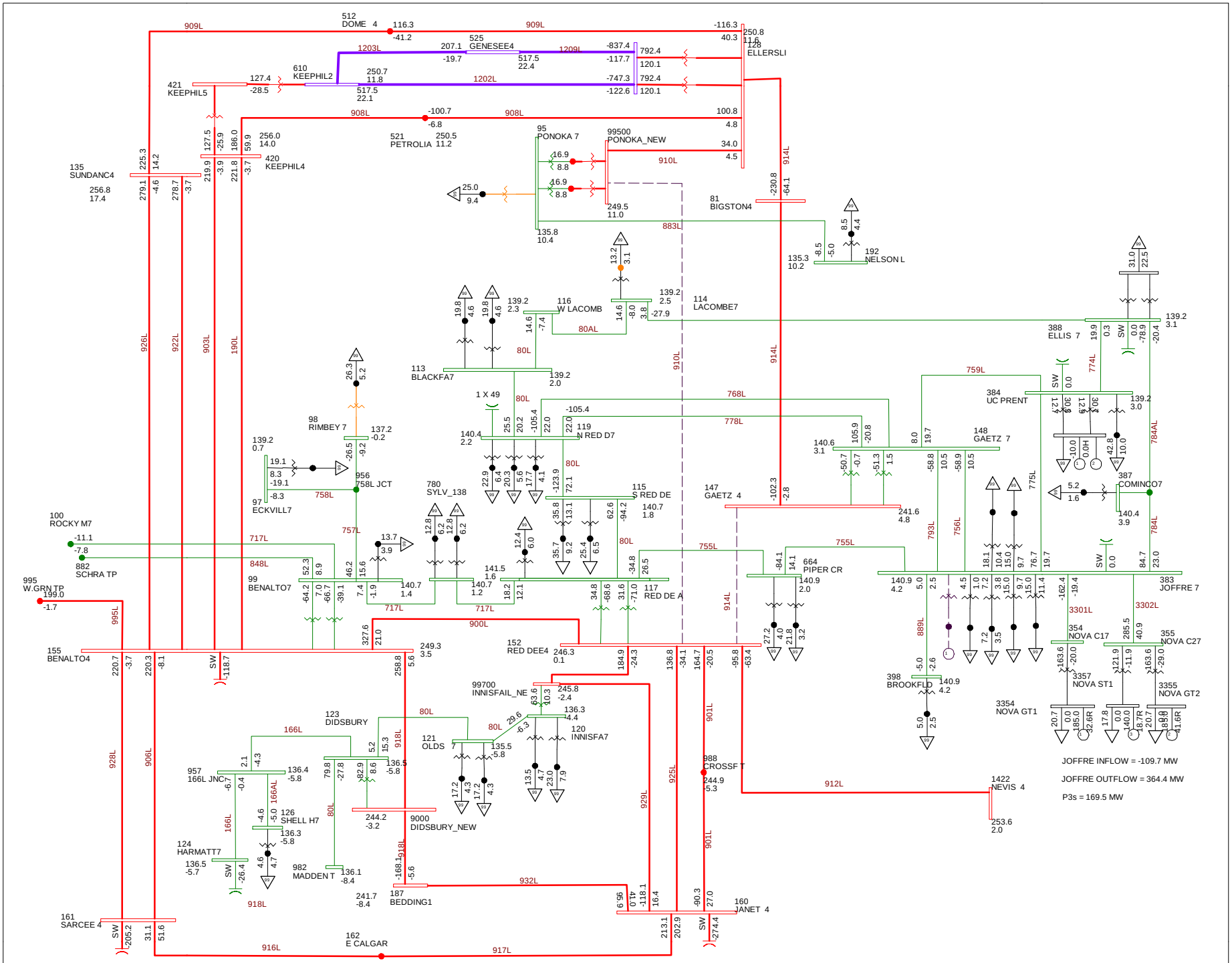


RED DEER REGION STUDY
2012 WINTER PEAK BASE CASE REVISION 6.5

FIG 2012-ALT2-LOAD-WP-C5-6: 925L RED DEER 63S TO JANET 74S
INNISFAILS 214S TO JANET 74S OUTAGE
WED, MAR 02 2011 8:34

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-439



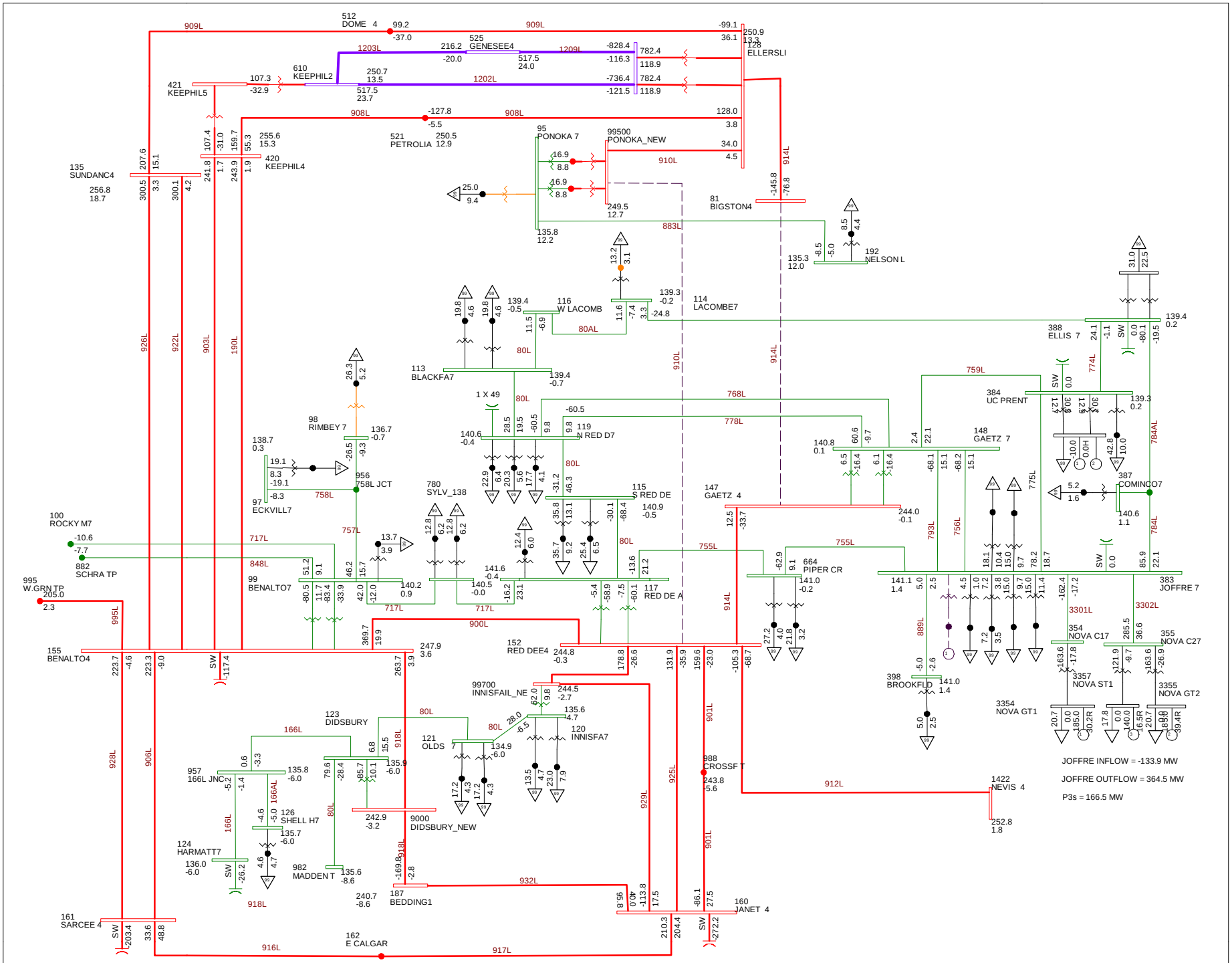
RED DEER REGION STUDY

2012 WINTER PEAK BASE CASE REVISION 6.5

FIG 2012-ALT2-LOAD-WP-C5-7: 910L RED DEER 63S TO GAETZ 87S
914L RED DEER 63S TO PONOKA 331S OUTAGE
WED, MAR 02 2011 8:34

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-440



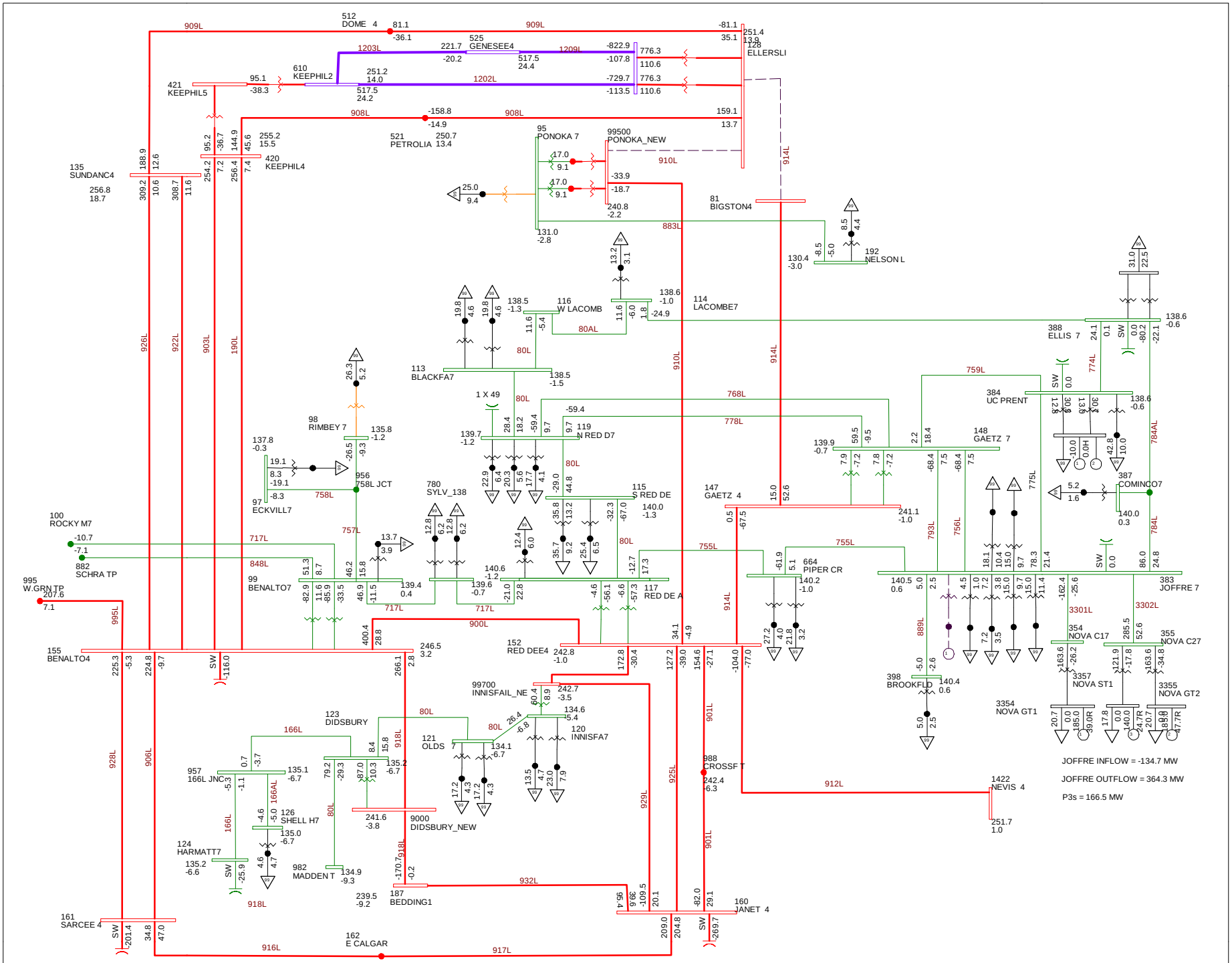
RED DEER REGION STUDY

2012 WINTER PEAK BASE CASE REVISION 6.5

FIG 2012-ALT2-LOAD-WP-C5-8: 910L BIGSTONE 86S TO GAETZ 87S
914L RED DEER 63S TO PONOKA 331S OUTAGE
WED, MAR 02 2011 8:34

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-441

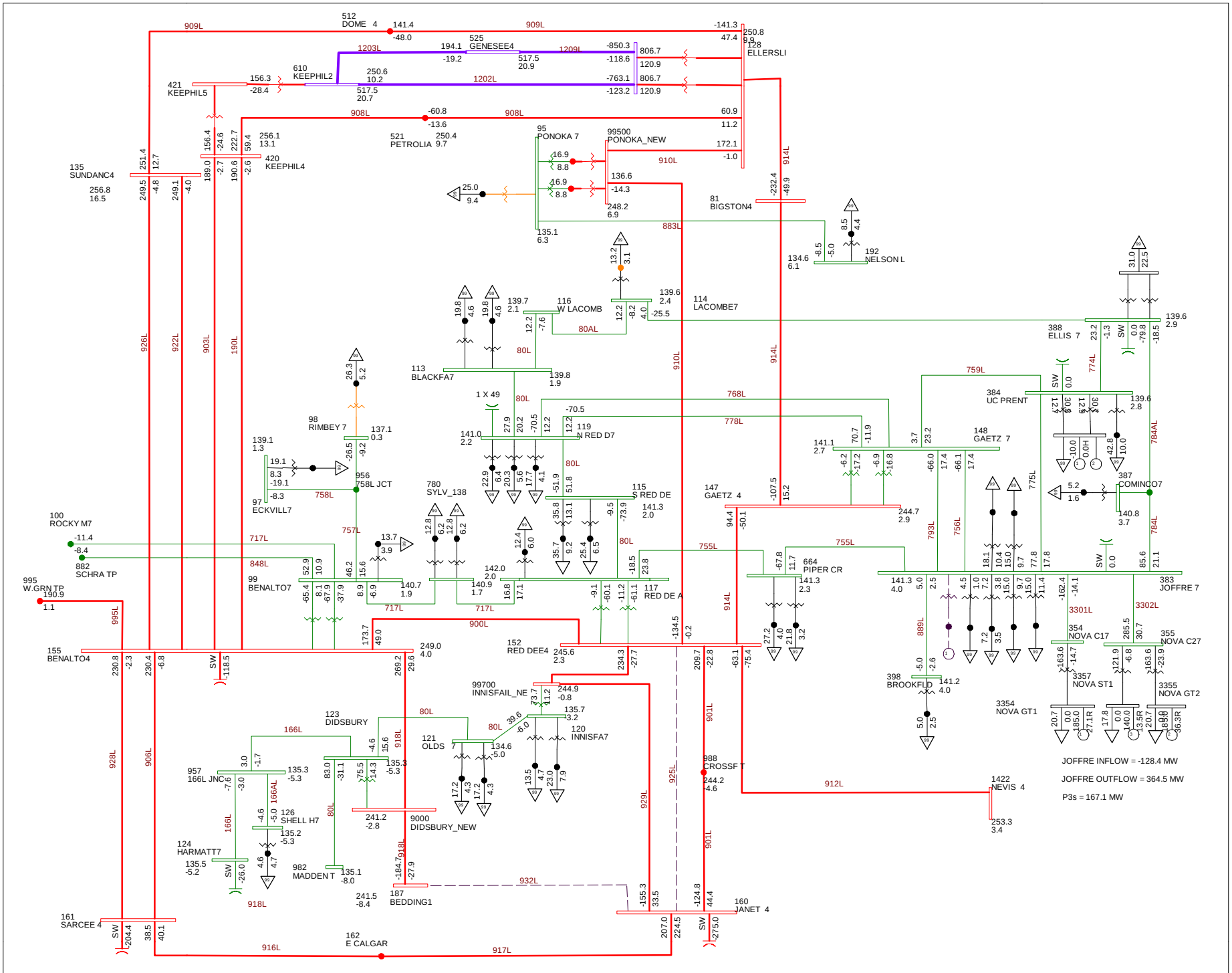


RED DEER REGION STUDY

2012 WINTER PEAK BASE CASE REVISION 6.5

FIG 2012-ALT2-LOAD-WP-C5-9: 910L ELLERSLIE 89S TO PONOKA 331
914L ELLERSLIE 89S TO BIGSTONE 86S OUTAGE
WED, MAR 02 2011 8:34

D-2012-442



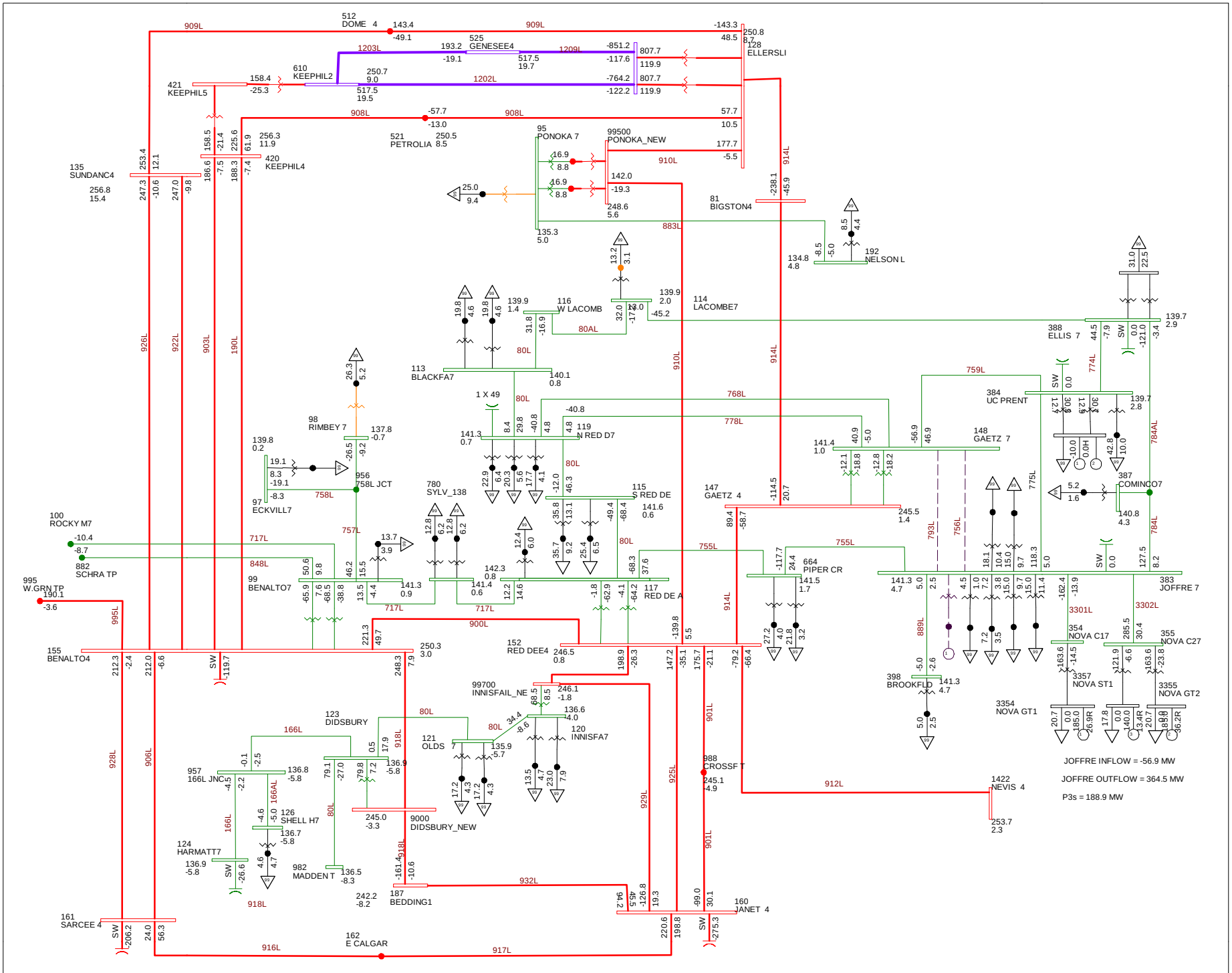
RED DEER REGION STUDY

2012 WINTER PEAK BASE CASE REVISION 6.5

FIG 2012-ALT2-LOAD-WP-C5-10: 918L BEDDING 162S TO JANET 74S
929L RED DEER 63S TO JANET 74S OUTAGE
WED, MAR 02 2011 8:34

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-443

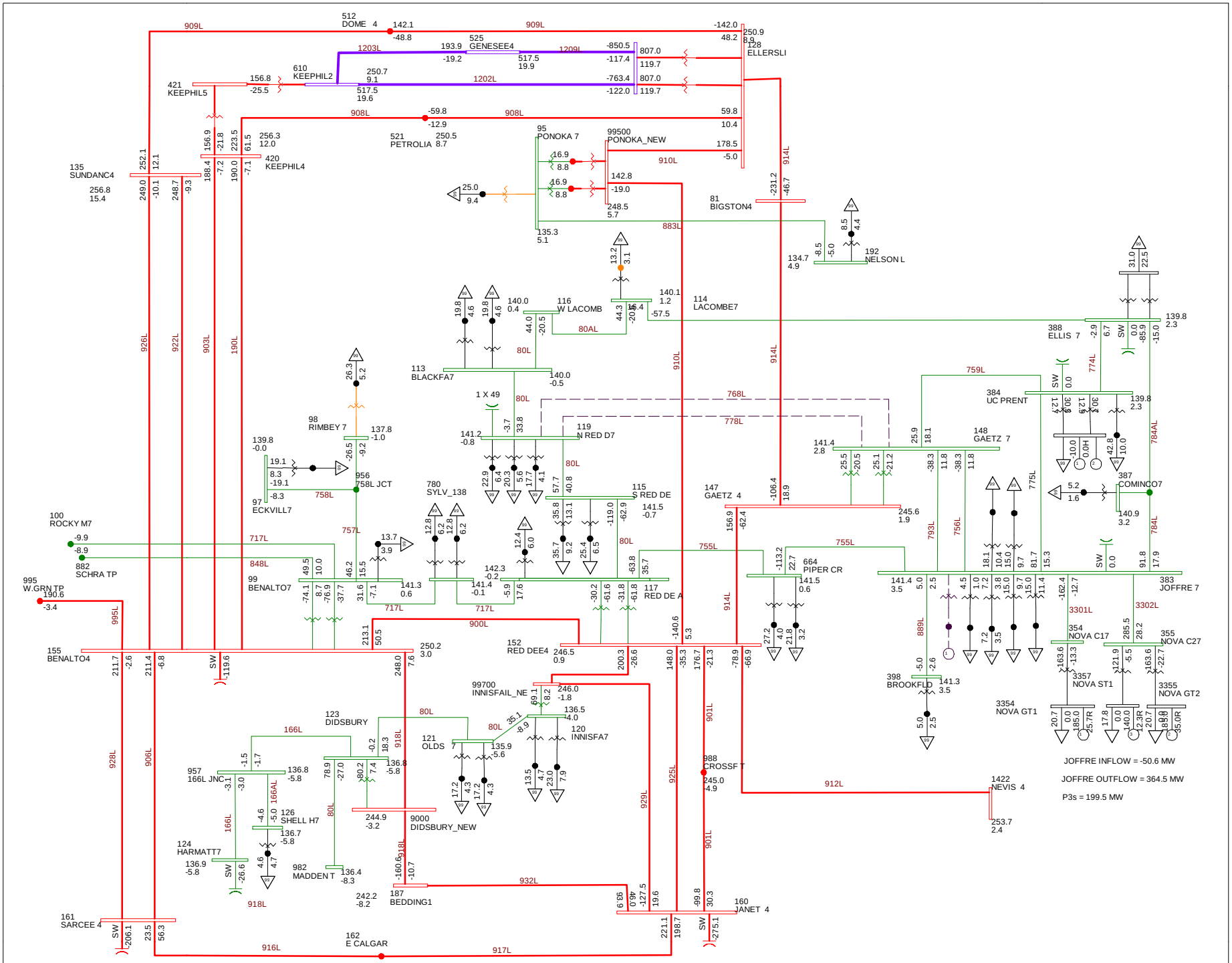


RED DEER REGION STUDY
2012 WINTER PEAK BASE CASE REVISION 6.5

FIG 2012-ALT2-LOAD-WP-C5-11: 756L/793L
GAETZ 87S TO JOFFRE 535S OUTAGE
WED, MAR 02 2011 8:34

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-444

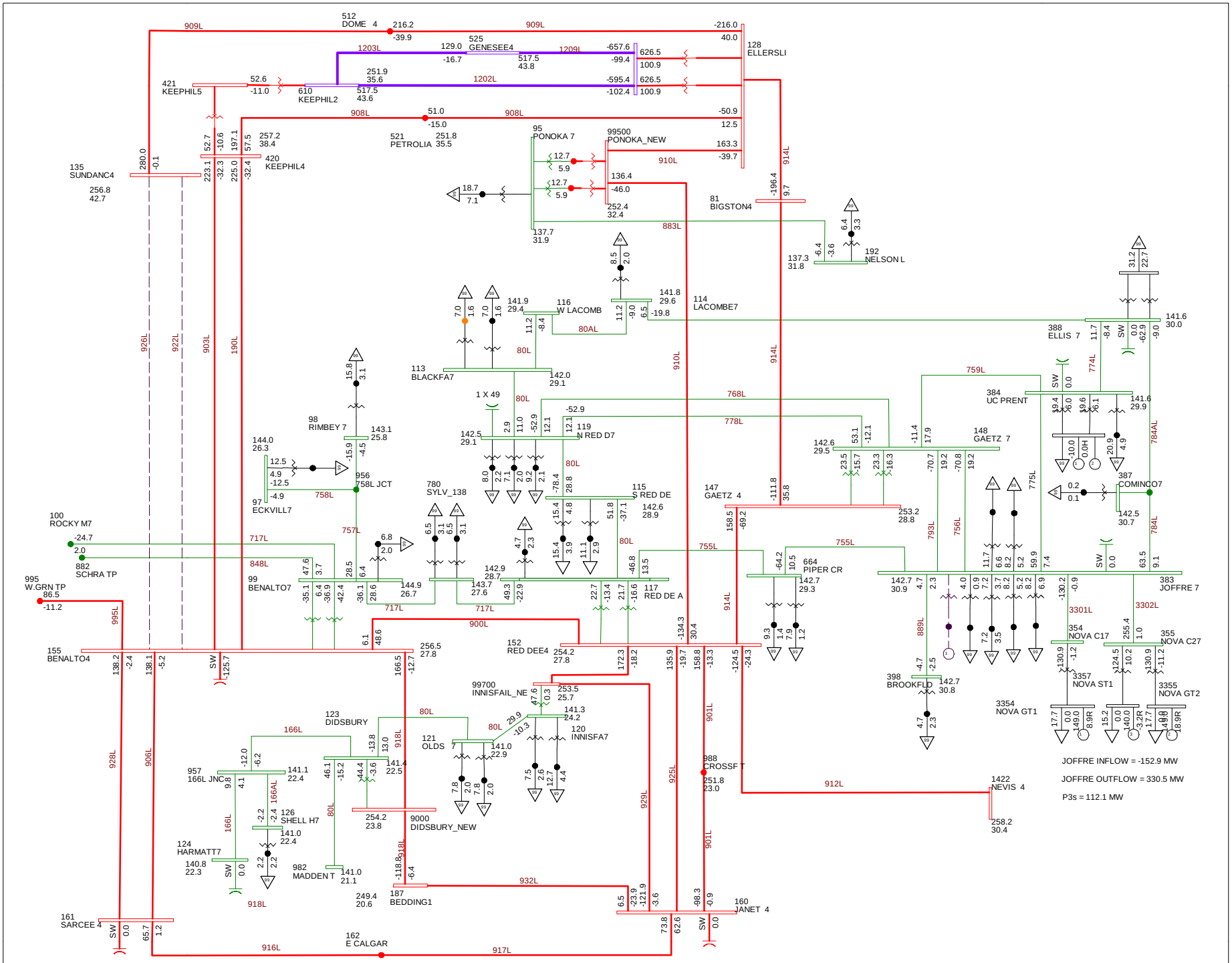


RED DEER REGION STUDY
2012 WINTER PEAK BASE CASE REVISION 6.5

FIG 2012-ALT2-LOAD-WP-C5-12: 768L/778L
N. RED DEER 217S TO GAETZ 87S OUTAGE
WED, MAR 02 2011 8:34

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-445



RED DEER REGION STUDY

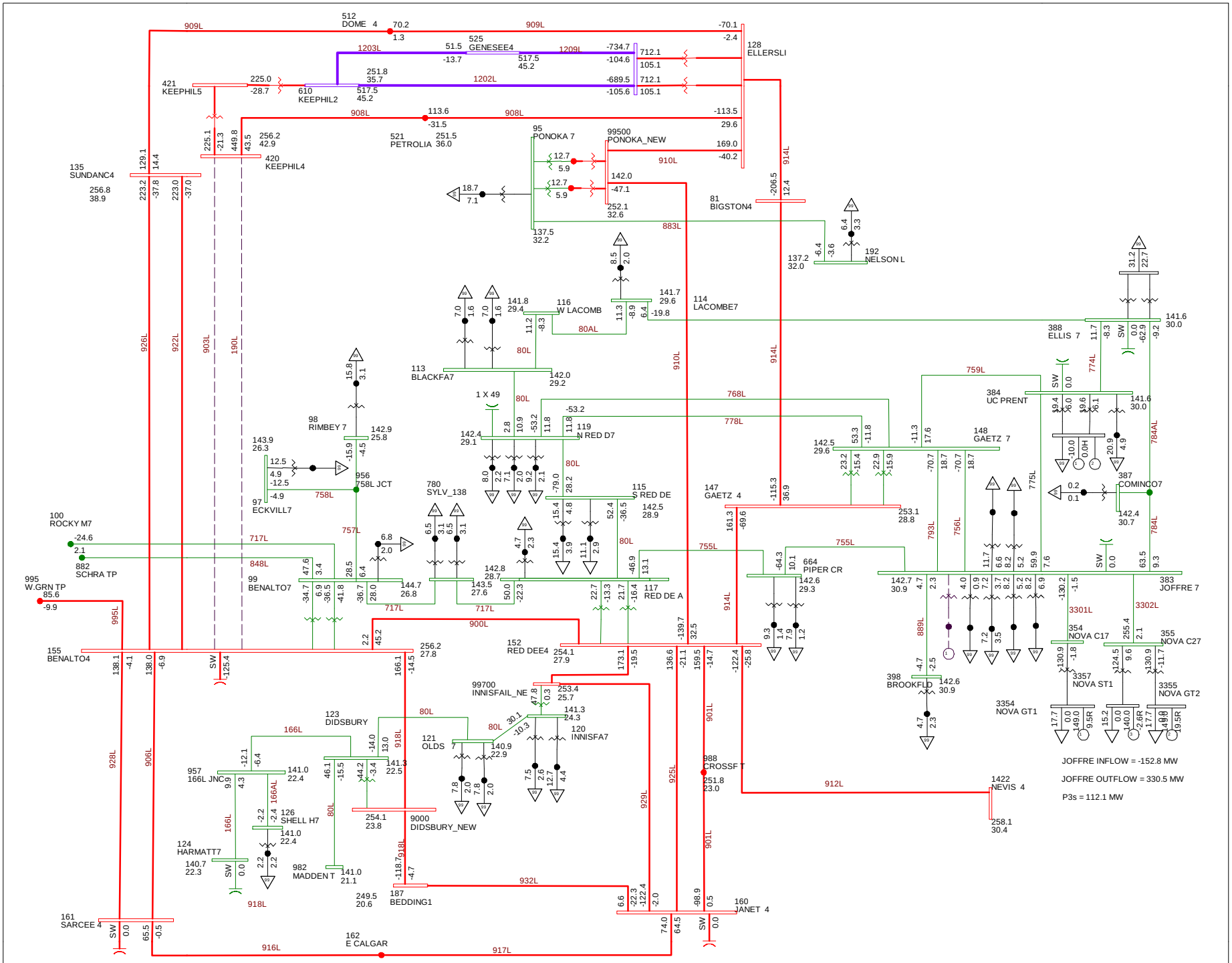
2012 SUMMER LIGHT BASE CASE REVISION 6.5

FIG 2012-ALT2-LOAD-SL-C5-1: 922/926L
SUNDANCE 821S TO BENALTO 17S OUTAGE
WED, MAR 02 2011 8:31

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR

<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-446



RED DEER REGION STUDY

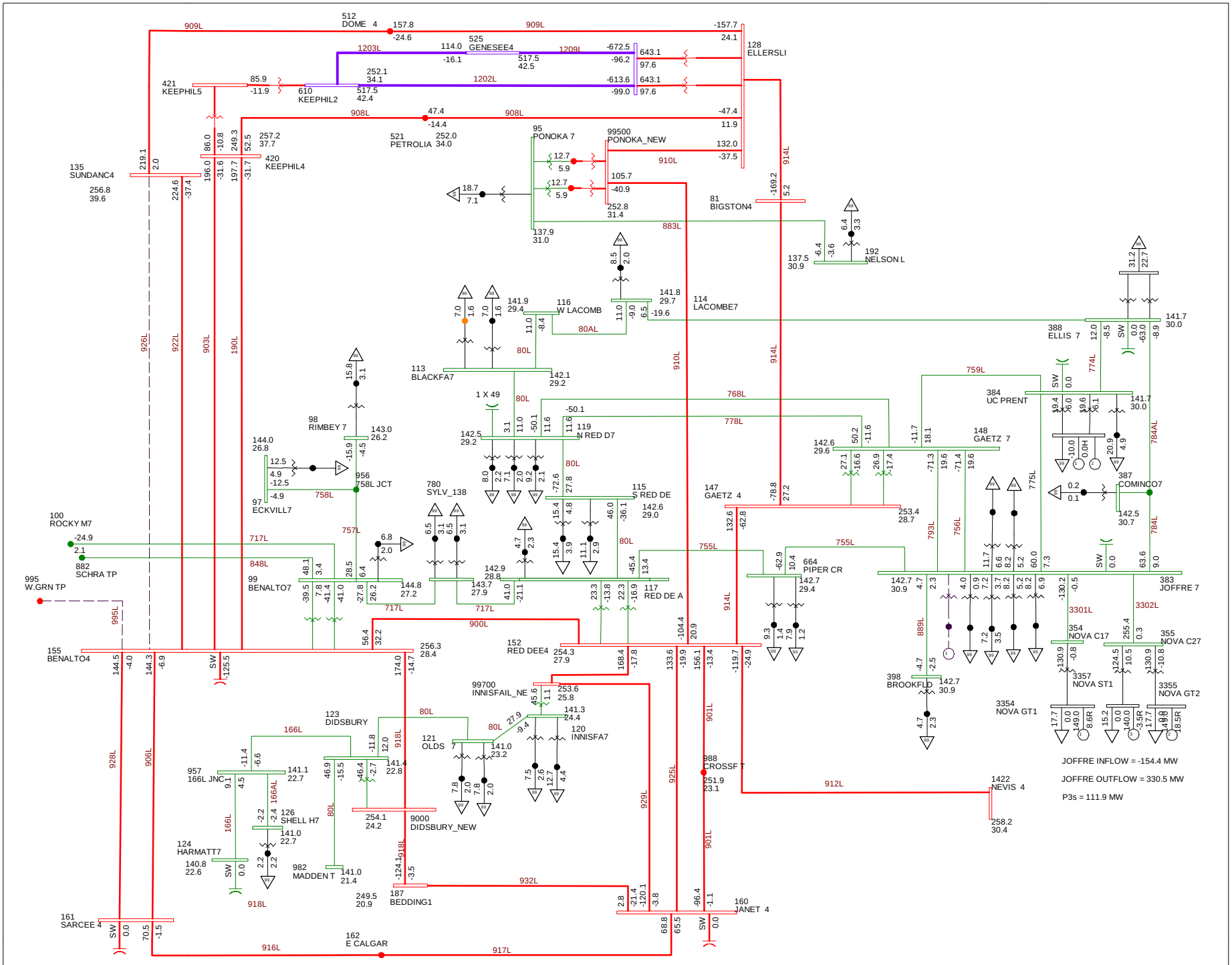
2012 SUMMER LIGHT BASE CASE REVISION 6.5

FIG 2012-ALT2-LOAD-SL-C5-2: 190/903L
KEEPHILLS 320PS TO BENALTO 17S OUTAGE
WED, MAR 02 2011 8:31

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR

<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-447



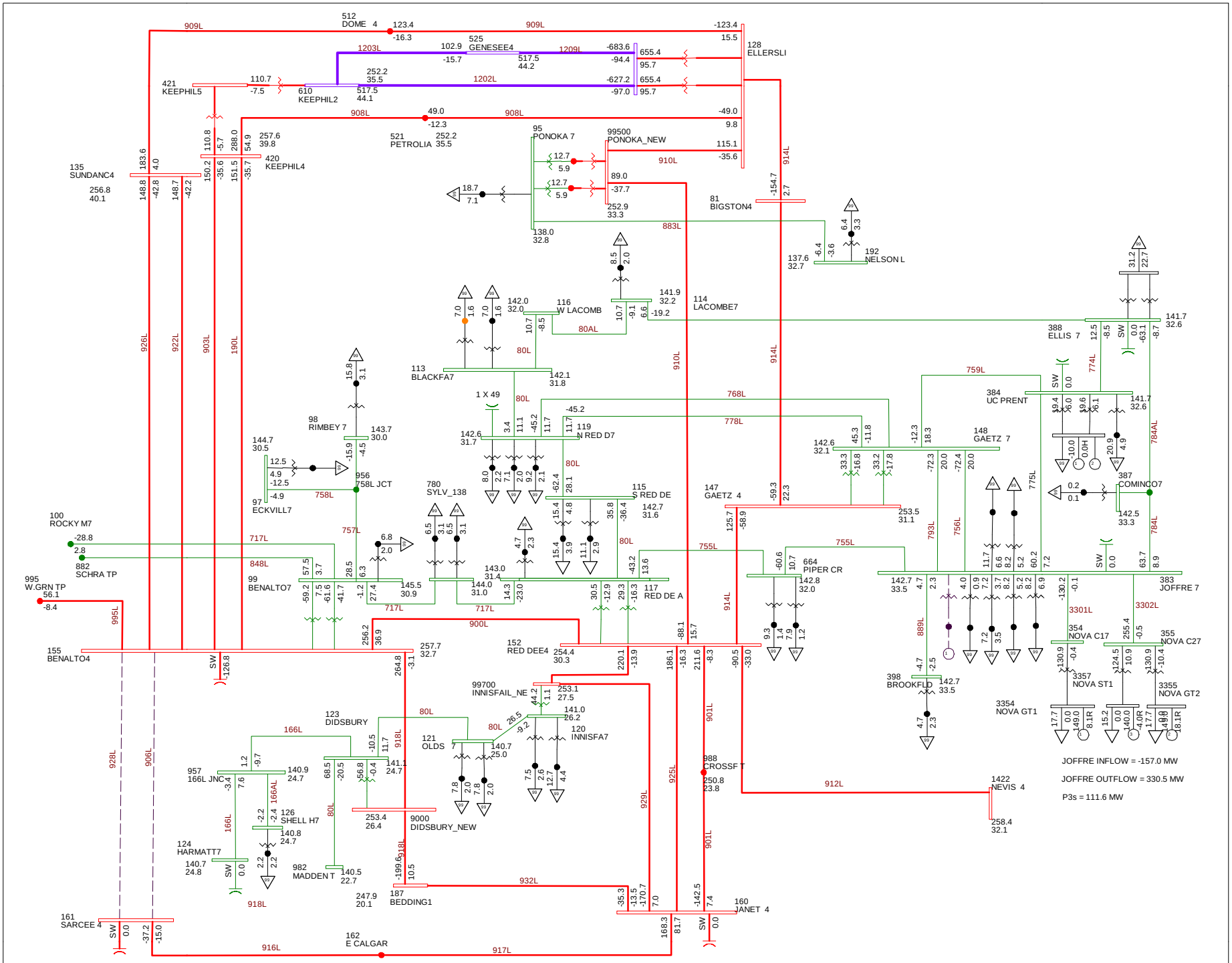
RED DEER REGION STUDY

2012 SUMMER LIGHT BASE CASE REVISION 6.5

FIG 2012-ALT2-LOAD-SL-C5-3: 926L SUNDANCE 821S TO BENALTO 17
995L AMOCO WILLESDEN 68S TO BENALTO 17S OUTAGE
WED, MAR 02 2011 8:31

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-448



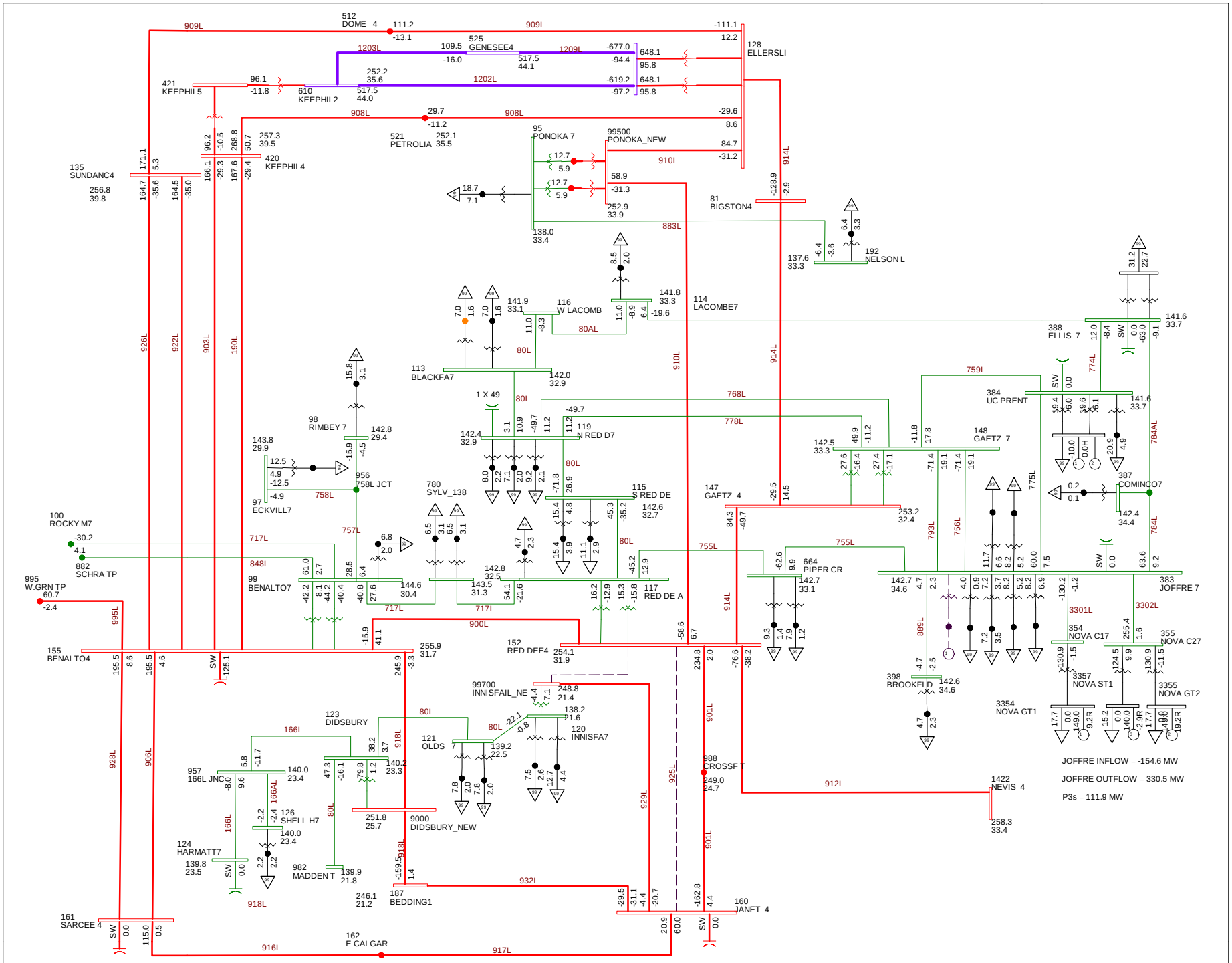
RED DEER REGION STUDY

2012 SUMMER LIGHT BASE CASE REVISION 6.5

FIG 2012-ALT2-LOAD-SL-C5-4: 928/906L
BENALTO 17S TO SARCEE575S OUTAGE
WED, MAR 02 2011 8:31

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-449



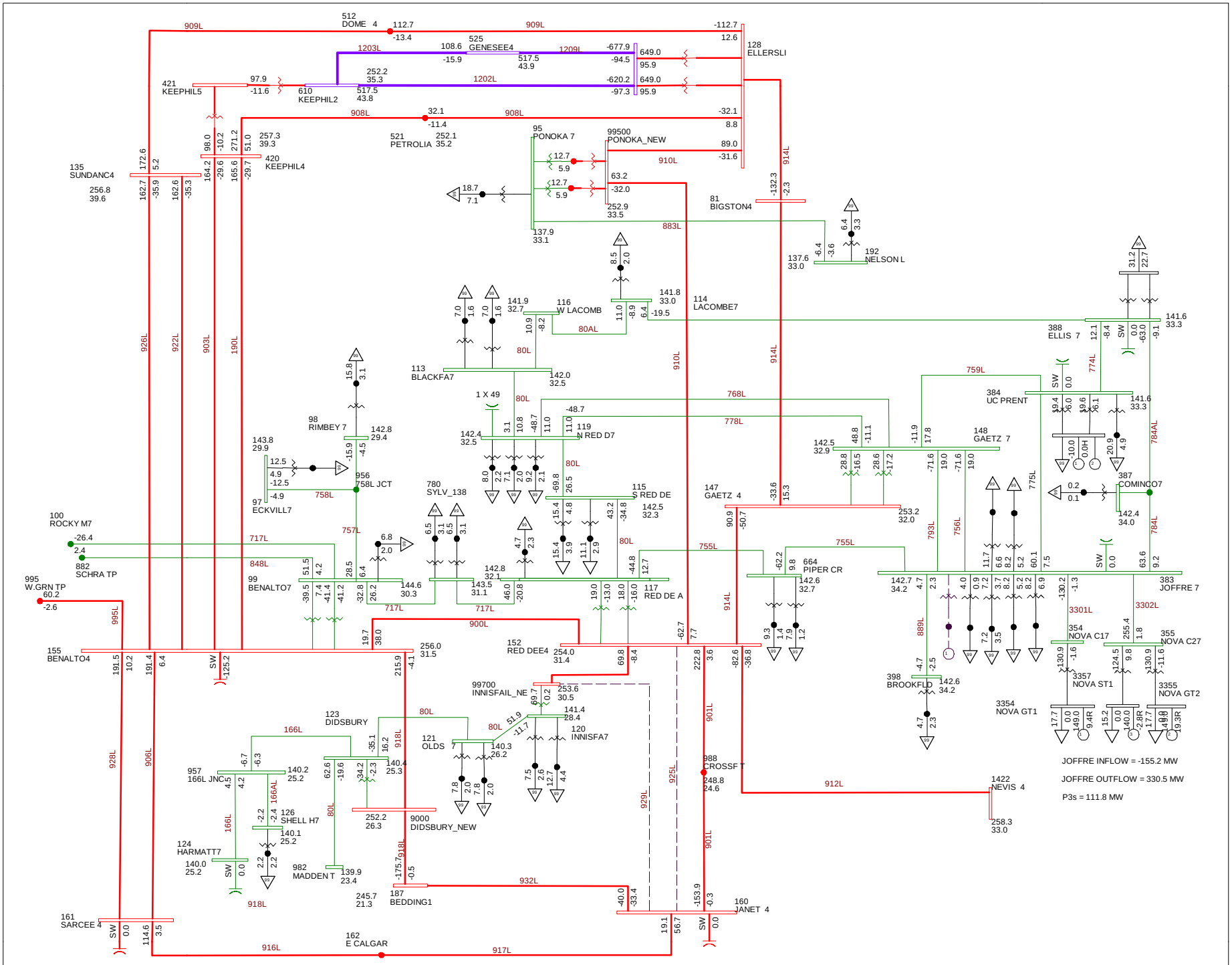
RED DEER REGION STUDY

2012 SUMMER LIGHT BASE CASE REVISION 6.5

FIG 2012-ALT2-LOAD-SL-C5-5: 925L RED DEER 63S TO JANET 74S
RED DEER 63S TO INNISFAILS 214S OUTAGE
WED, MAR 02 2011 8:31

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-450



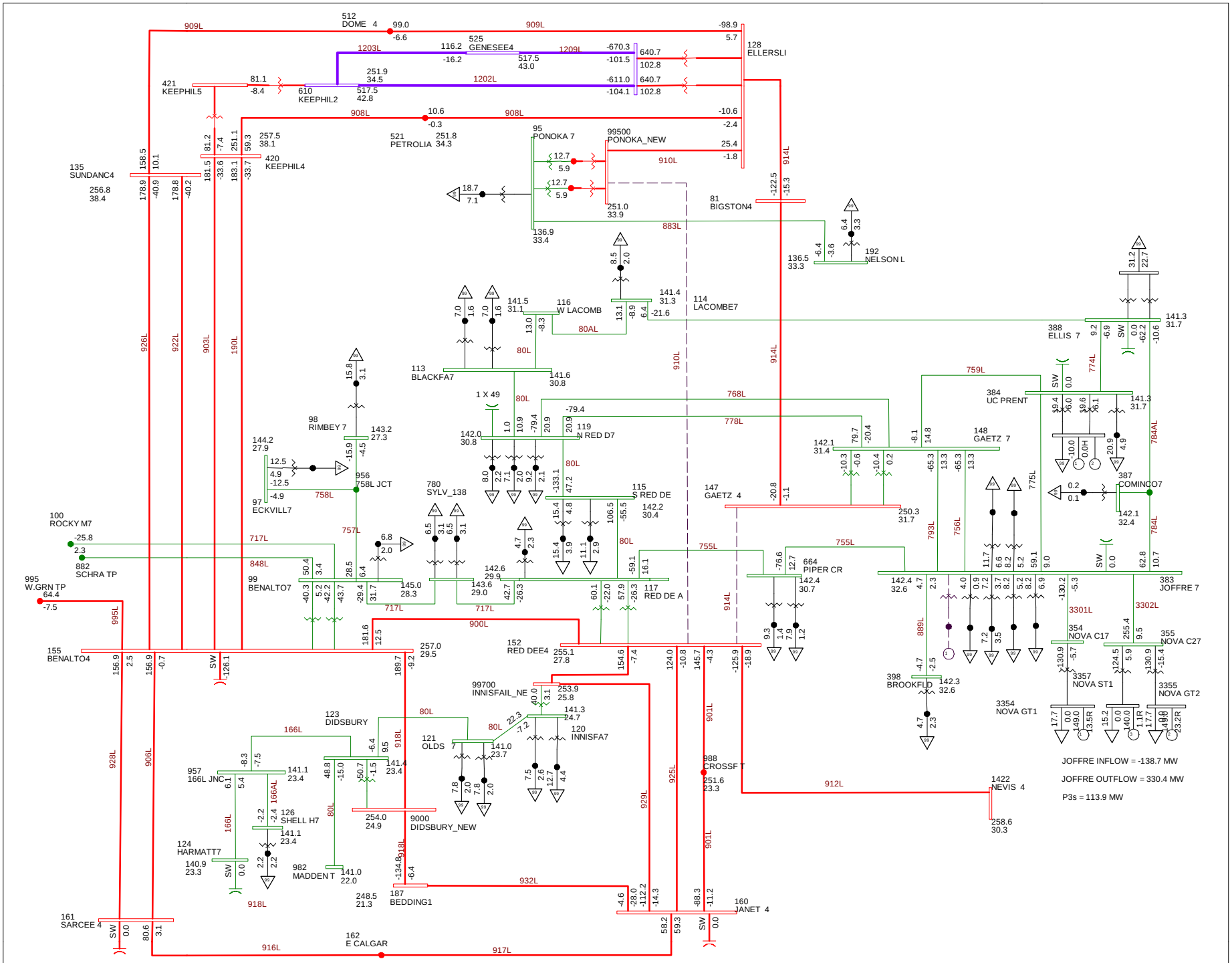
RED DEER REGION STUDY

2012 SUMMER LIGHT BASE CASE REVISION 6.5

FIG 2012-ALT2-LOAD-SL-C5-6: 925L RED DEER 63S TO JANET 74S
INNISFAILS 214S TO JANET 74S OUTAGE
WED, MAR 02 2011 8:31

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-451



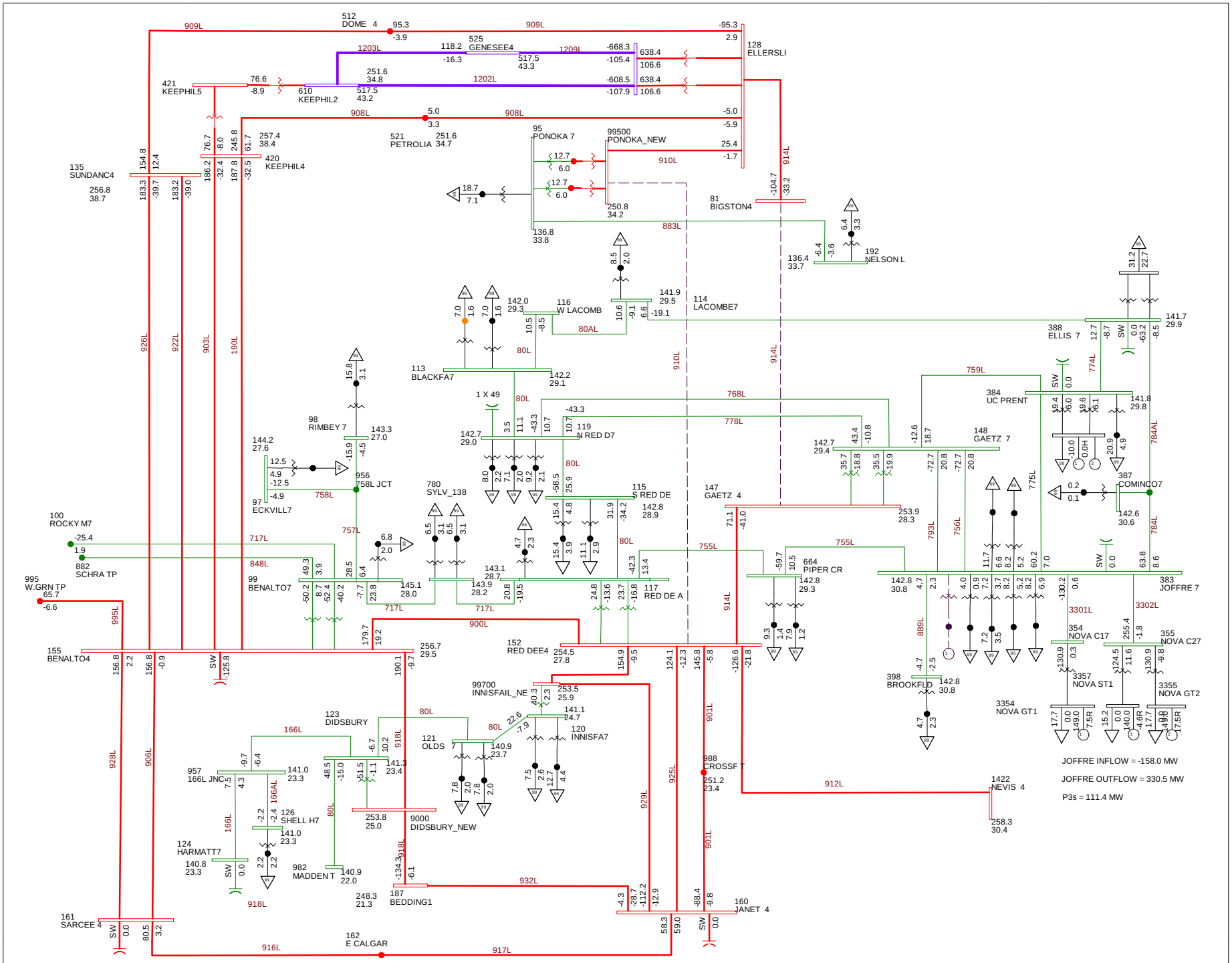
RED DEER REGION STUDY

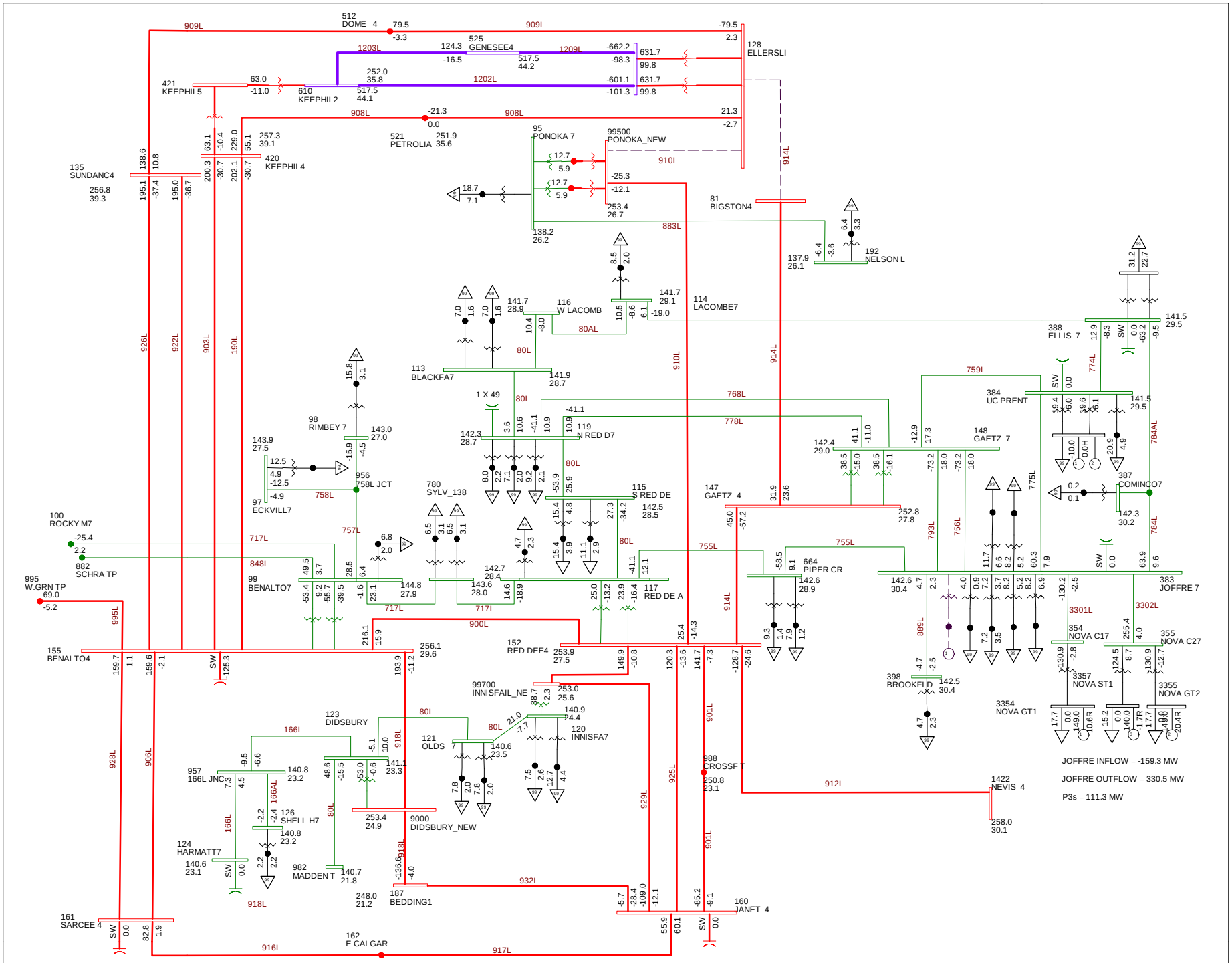
2012 SUMMER LIGHT BASE CASE REVISION 6.5

FIG 2012-ALT2-LOAD-SL-C5-7: 910L RED DEER 63S TO GAETZ 87S
914L RED DEER 63S TO PONOKA 331S OUTAGE
WED, MAR 02 2011 8:31

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-452


512
DOME 4
95.3
-3.9
909L
-95.3
2.9
525
GENESEE4
1203L
118.2
-16.3
517.5
43.3
1209L
-668.3
-105.4
638.4
106.6
128
ELLERSLI
251.6
34.8
1202L
-608.5
-107.9
638.4
106.6
421
KEEPHIL5
76.6
-8.9
610
KEEPHIL2
517.5
43.2
908L
5.0
3.3
908L
-5.0
-5.9
521
PETROLIA
251.6
34.7
95
PONOKA 7
99500
PONOKA_NEW
12.7
6.0
910L
25.4
-1.7
914L
135
SUNDANC4
256.8
38.7
420
KEEPHIL4
257.4
38.4
18.7
7.1
250.8
34.2
136.8
33.8
81
BIGSTON4
-104.7
-33.2
883L
192
NELSON L
136.4
33.7
6.4
3.3
6.4
-3.6
8.5
2.0
141.9
29.5
-19.1
114
LACOMBE7
116
W LACOMB
142.0
29.3
10.6
-9.1
6.6
80AL
926L
922L
903L
190L
910L
914L
113
BLACKFA7
142.2
29.1
80L
1 X 49
768L
759L
388
ELLIS 7
141.7
29.9
774L
784AL
98
RIMBEY 7
143.3
27.0
144.2
27.6
12.5
4.9
-12.5
-4.9
97
ECKVILL7
956
758L JCT
758L
119
N RED D7
142.7
29.0
778L
384
UC PRENT
141.8
29.8
148
GAETZ 7
142.7
29.4
387
COMINCO7
142.6
30.6
775L
780
SYLV_138
115
S RED DE
142.8
28.9
147
GAETZ 4
253.9
28.3
100
ROCKY M7
-25.4
1.9
882
SCHRA TP
717L
848L
757L
99
BENALTO7
145.1
28.0
143.9
28.2
143.1
28.7
117
RED DE A
755L
664
PIPER CR
142.8
29.3
793L
756L
784L
383
JOFFRE 7
995
W.GRN TP
65.7
-6.6
995L
900L
155
BENALTO4
256.7
29.5
152
RED DEE4
254.5
27.8
914L
889L
3301L
3302L
354
NOVA C17
355
NOVA C27
3357
NOVA ST1
3355
NOVA GT2
3354
NOVA GT1
398
BROOKFLD
142.8
30.8
99700
INNISFAIL_NE
253.5
25.9
141.1
24.7
120
INNISFA7
123
DIDSBURY
166L
121
OLDS 7
140.9
23.7
80L
928L
906L
957
166L JNC
141.0
23.3
126
SHELL H7
124
HARMATT7
140.8
23.3
982
MADDEN T
140.9
22.0
253.8
25.0
9000
DIDSBURY_NEW
929L
925L
901L
988
CROSSFT
251.2
23.4
912L
1422
NEVIS 4
258.3
30.4
JOFFRE INFLOW = -158.0 MW
JOFFRE OUTFLOW = 330.5 MW
P3s = 111.4 MW
161
SARCEE 4
162
E CALGAR
916L
917L
918L
187
BEDDING1
248.3
21.3
932L
160
JANET 4
58.3
59.0
RED DEER REGION STUDY
2012 SUMMER LIGHT BASE CASE REVISION 6.5
FIG 2012-ALT2-LOAD-SL-C5-8: 910L BIGSTONE 86S TO GAETZ 87S
914L RED DEER 63S TO PONOKA 331S OUTAGE
WED, MAR 02 2011 8:31
Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000
<=138.000
>500.000
<=34.500
<=240.000
<=500.000
D-2012-453



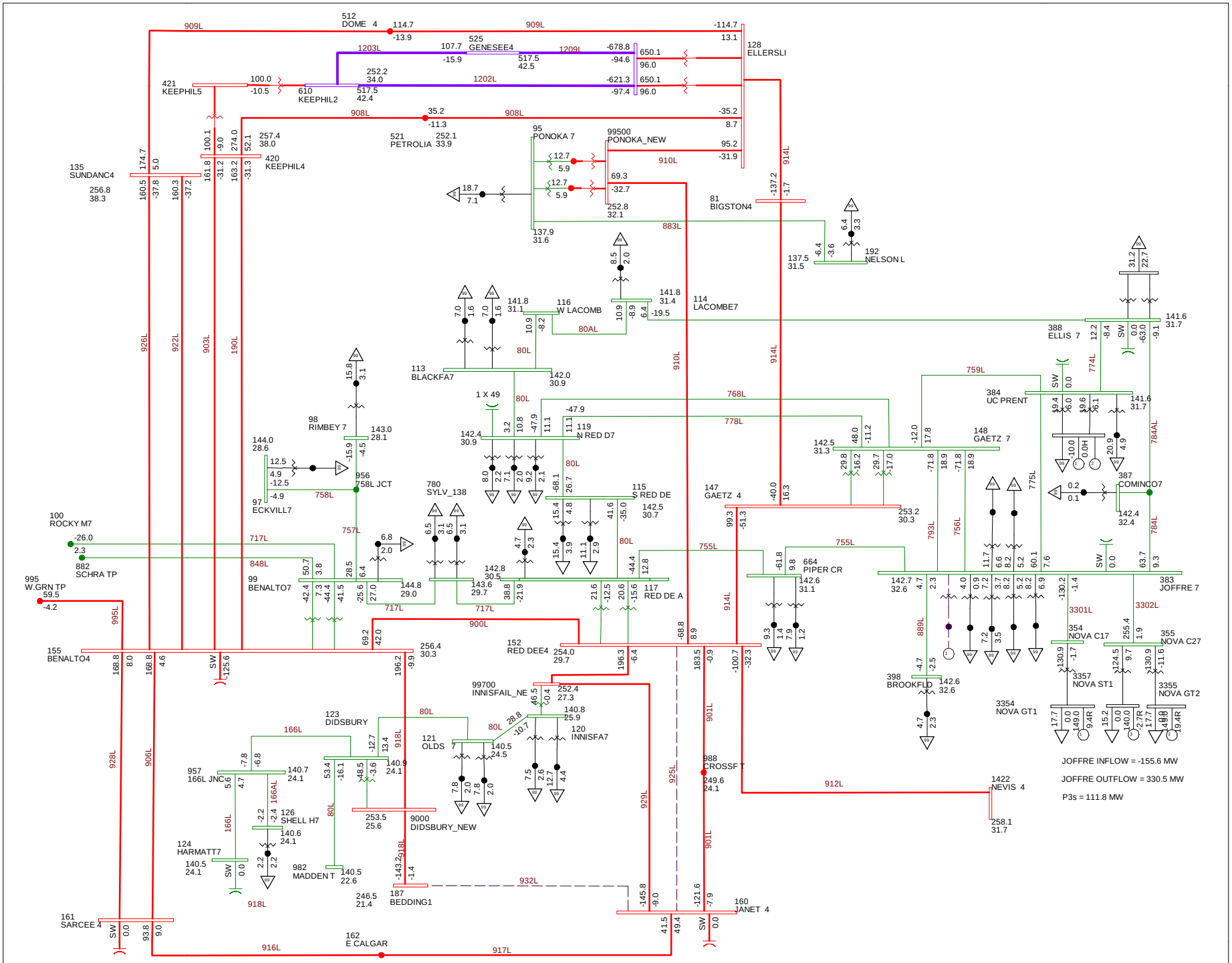
RED DEER REGION STUDY

2012 SUMMER LIGHT BASE CASE REVISION 6.5

FIG 2012-ALT2-LOAD-SL-C5-9: 910L ELLERSLIE 89S TO PONOKA 331
914L ELLERSLIE 89S TO BIGSTONE 86S OUTAGE
WED, MAR 02 2011 8:31

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-454



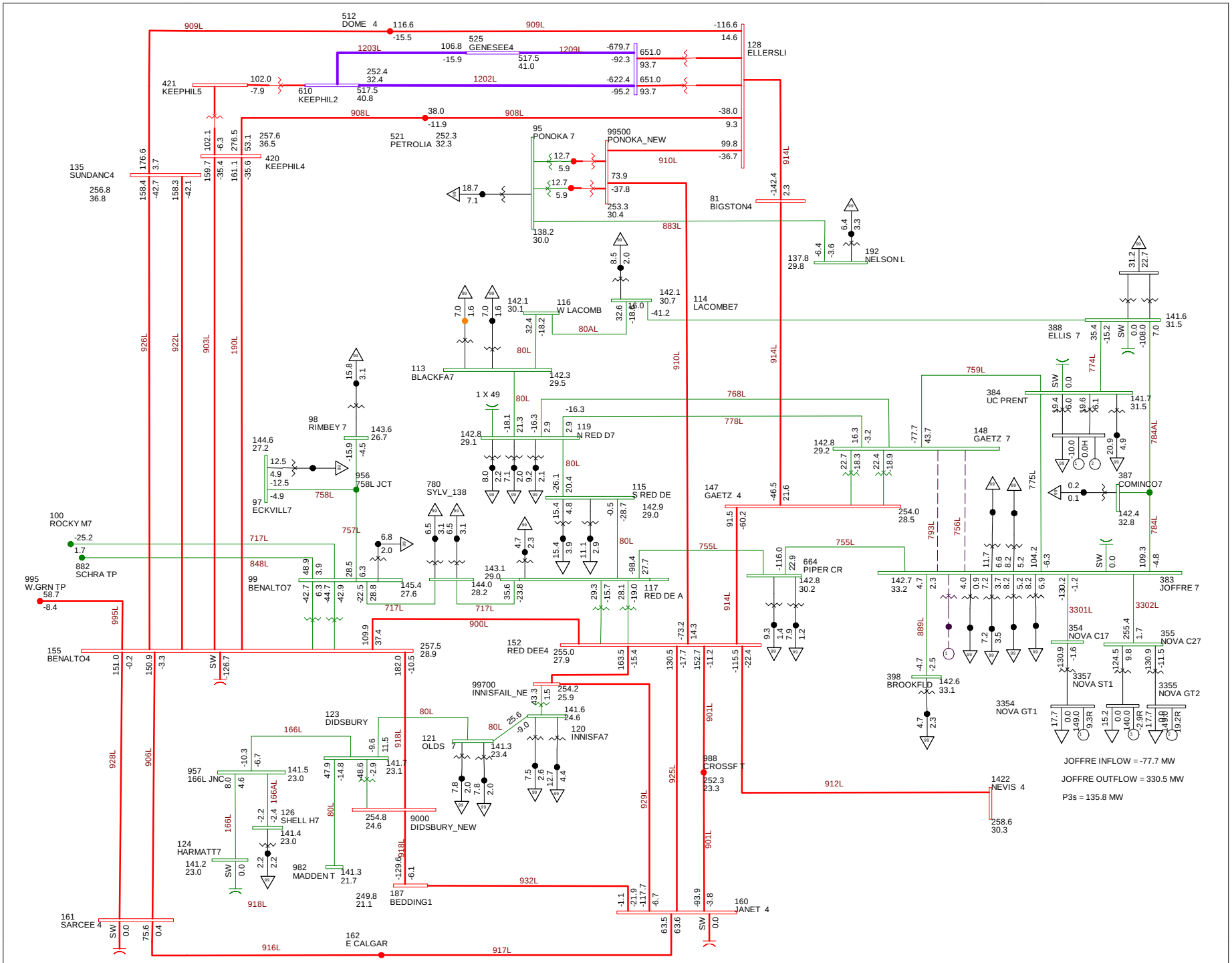
RED DEER REGION STUDY

2012 SUMMER LIGHT BASE CASE REVISION 6.5

FIG 2012-ALT2-LOAD-SL-C5-10: 918L BEDDING 162S TO JANET 74S
929L RED DEER 63S TO JANET 74S OUTAGE
WED, MAR 02 2011 8:31

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-455



RED DEER REGION STUDY

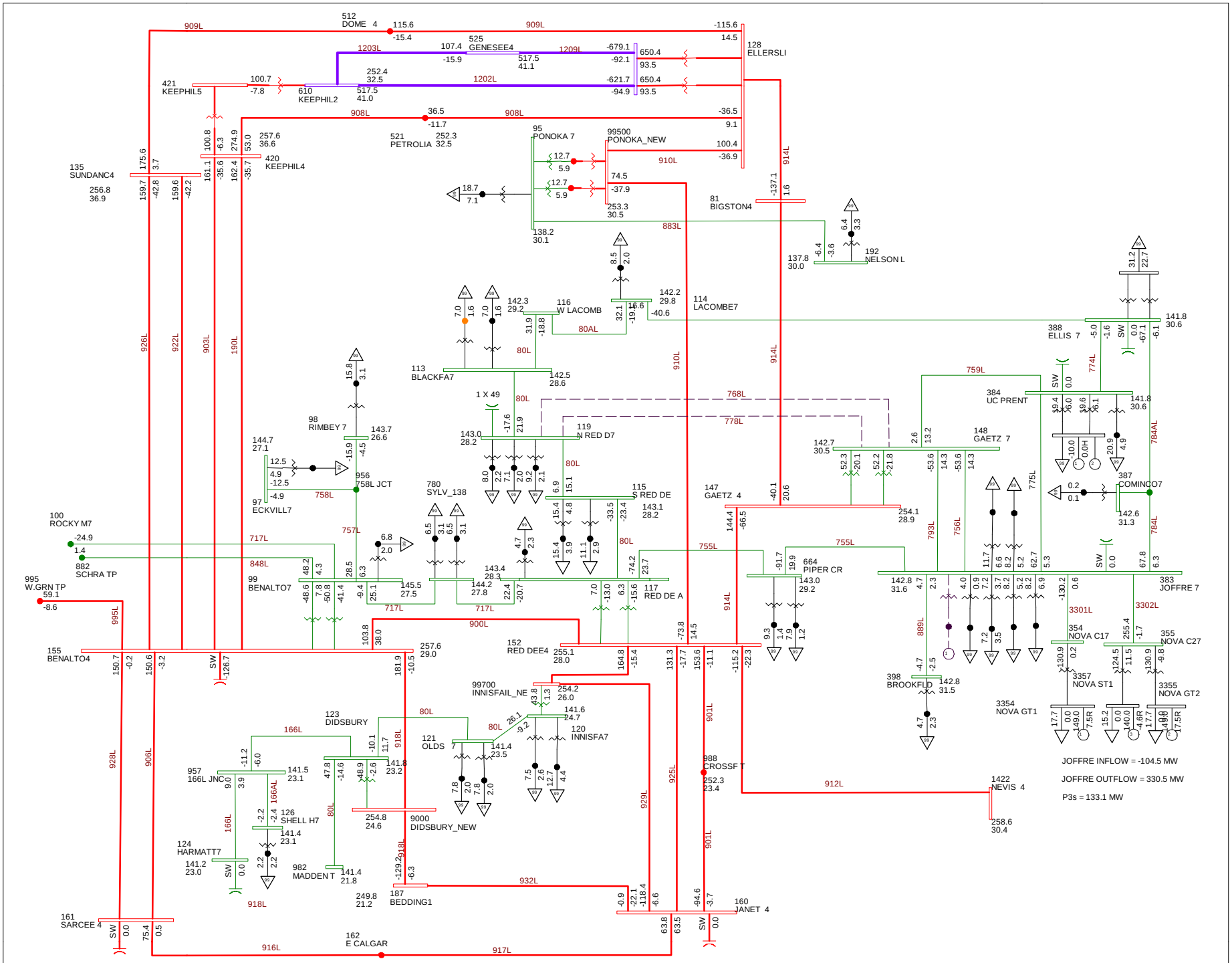
2012 SUMMER LIGHT BASE CASE REVISION 6.5

FIG 2012-ALT2-LOAD-SL-C5-11: 756L/793L
GAETZ 87S TO JOFFRE 535S OUTAGE
WED, MAR 02 2011 8:31

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR

<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-456



RED DEER REGION STUDY

2012 SUMMER LIGHT BASE CASE REVISION 6.5

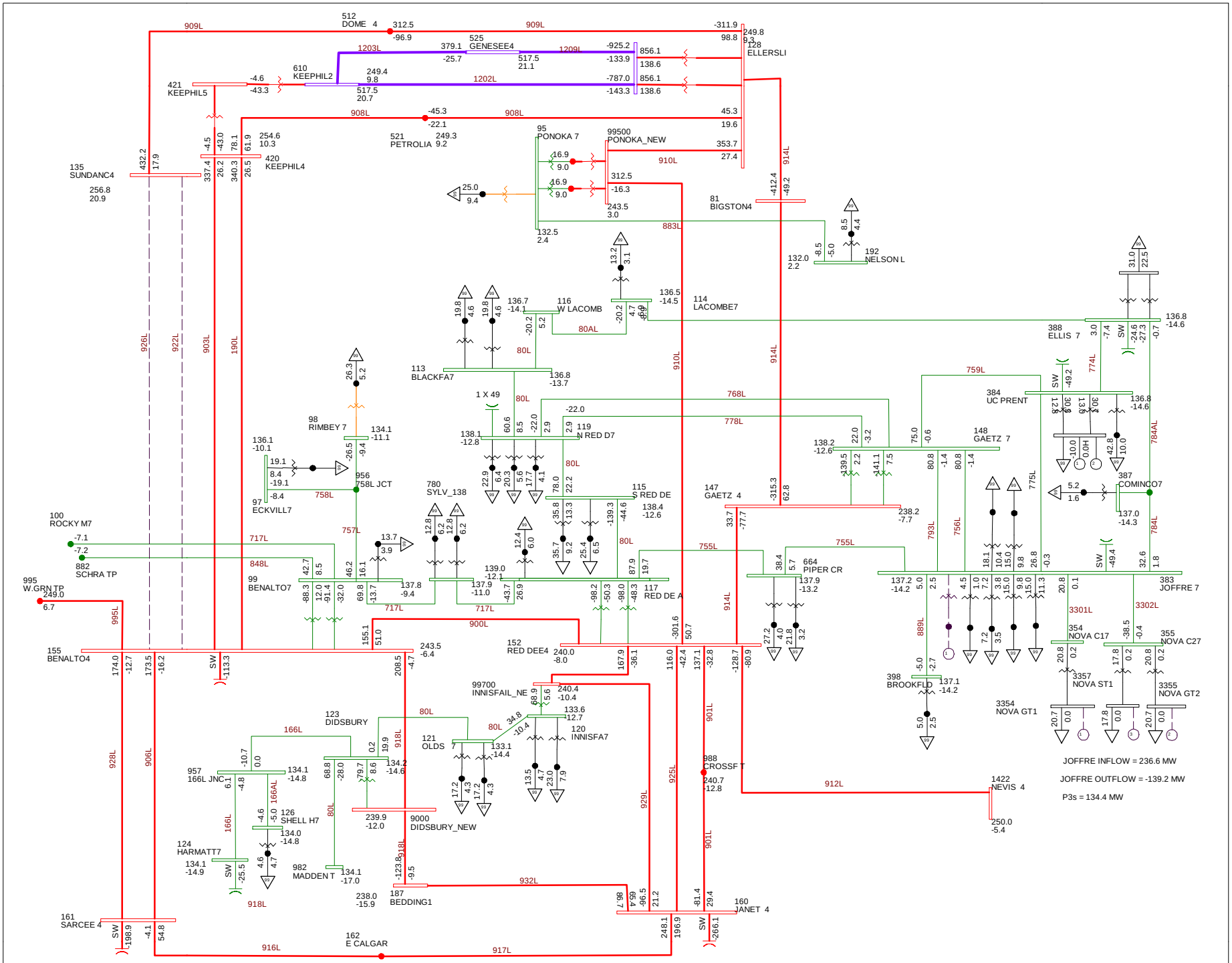
FIG 2012-ALT2-LOAD-SL-C5-12: 768L/778L
N. RED DEER 217S TO GAETZ 87S OUTAGE
WED, MAR 02 2011 8:31

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-457

Table D-2012-11: Summary of 2012 Load Adequacy Power Flow Analysis - Alternative 2 Category C5 (WP with Nova OFF)

Figure No.	Contingency	Overloaded Element	Percent Overload	Other System Performance Concerns	SPS
Winter Peak					
Fig 2012-Alt2-Load-WP-C5-1 (Nova OFF)	922/926L (Sundance 821S to Benalto 17S)	None	N/A	None	None
Fig 2012-Alt2-Load-WP-C5-2 (Nova OFF)	190/903L(Keephills 320P to Benalto 17S)	None	N/A	None	None
Fig 2012-Alt2-Load-WP-C5-3 (Nova OFF)	926L (Sundance 821S to Benalto 17S) 995L (Amoco Willesden 68S to Benalto 17S)	None	N/A	None	None
Fig 2012-Alt2-Load-WP-C5-4 (Nova OFF)	928/906L(Benalto 17S to Sarcee 575S)	None	N/A	None	None
Fig 2012-Alt2-Load-WP-C5-5 (Nova OFF)	925L(Red Deer 63S to Janet 74S) 929L (Red Deer 63S to Innisfail 214S)	None	N/A	None	None
Fig 2012-Alt2-Load-WP-C5-6 (Nova OFF)	925L(Red Deer 63S to Janet 74S) 929L (Innisfail 214S to Janet 74S)	None	N/A	None	None
Fig 2012-Alt2-Load-WP-C5-7 (Nova OFF)	910L (Red Deer 63S to Gaetz 87S) 914L (Red Deer 63S to Ponoka 331S)	None	N/A	None	None
Fig 2012-Alt2-Load-WP-C5-8 (Nova OFF)	910L (Bigstone 86S to Gaetz 87S) 914L (Red Deer 63S to Ponoka 331S)	None	N/A	None	None
Fig 2012-Alt2-Load-WP-C5-9 (Nova OFF)	910L (Ellerslie 89S to Ponoka 331S) 914L (Ellerslie 89s to Bigstone 86S)	None	N/A	None	None
Fig 2012-Alt2-Load-WP-C5-10 (Nova OFF)	918L (Bedding 162S to Janet 74S) 929L (Red Deer 63S to Janet 74S)	None	N/A	None	None
Fig 2012-Alt2-Load-WP-C5-11(Nova OFF)	756/793L(Gaetz 87S to Joffre 535S)	None	N/A	None	None
Fig 2012-Alt2-Load-WP-C5-12 (Nova OFF)	768/778L(N. Red Deer 217S to Gaetz 87S)	None	N/A	None	None



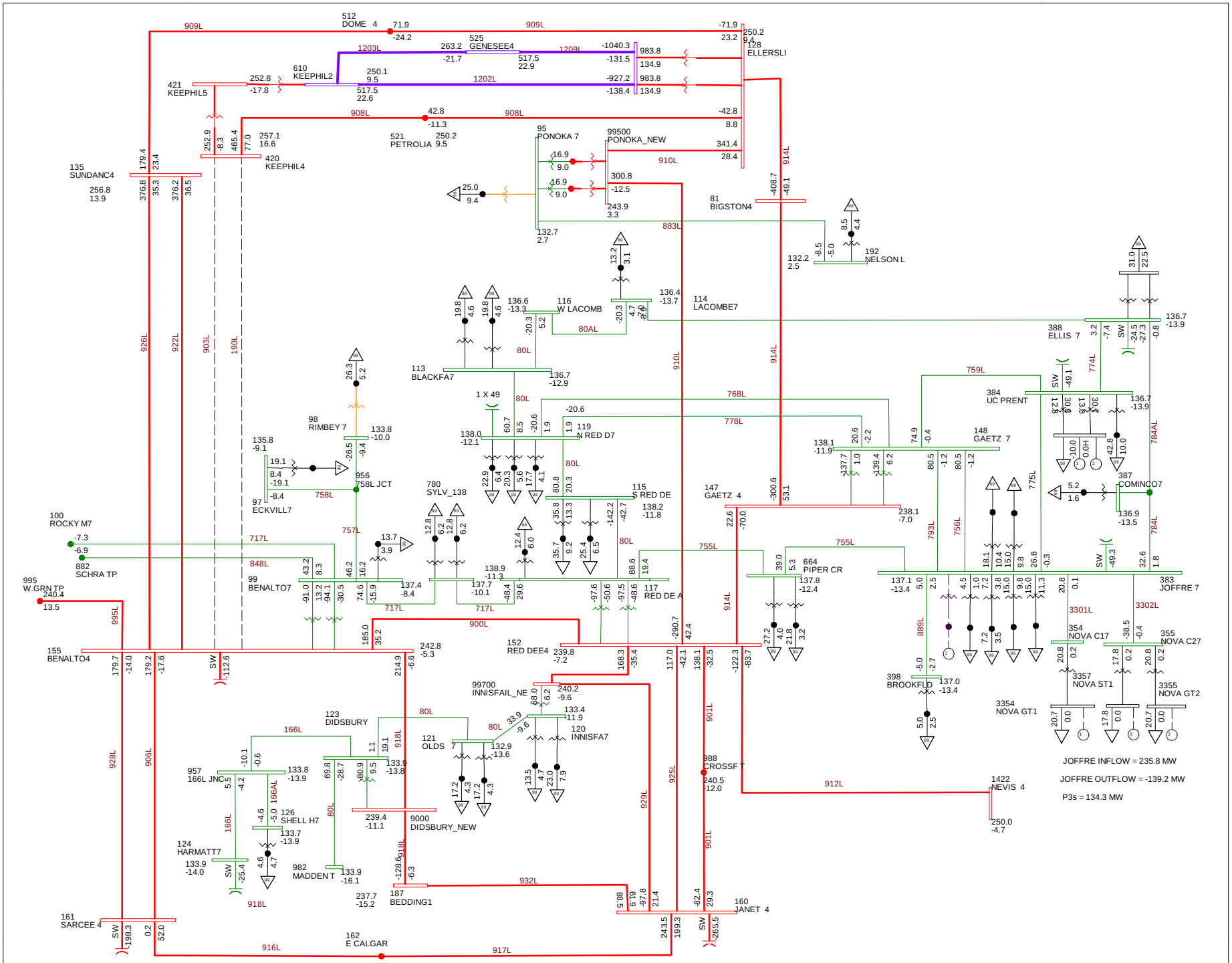
RED DEER REGION STUDY

2012 WINTER PEAK BASE CASE REVISION 6.5

FIG 2012-ALT2-LOAD-WP-C5-1: 922/926L
SUNDANCE 821S TO BENALTO 17S OUTAGE (NOVA OFF)
WED, MAR 02 2011 8:40

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-459



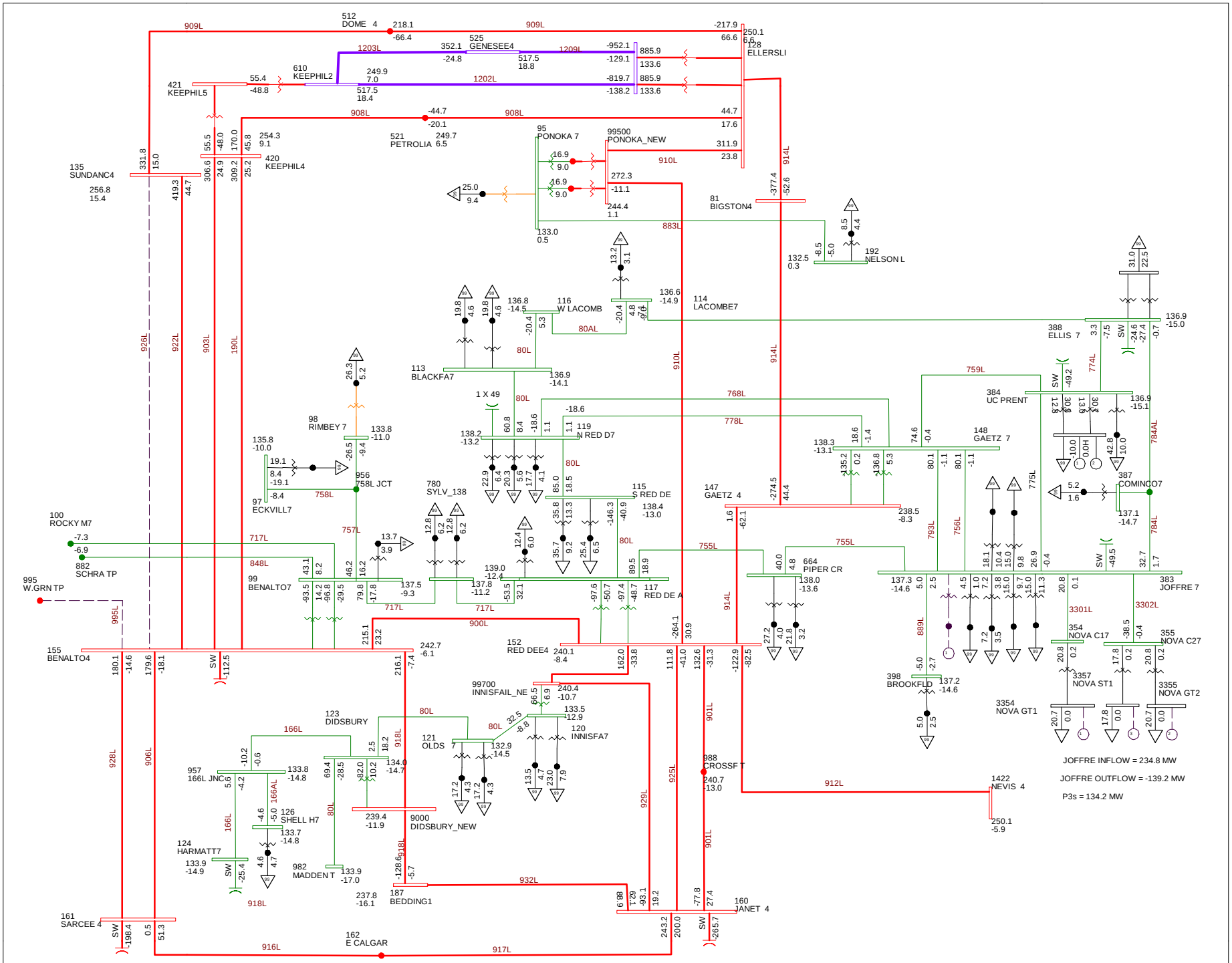
RED DEER REGION STUDY

2012 WINTER PEAK BASE CASE REVISION 6.5

FIG 2012-ALT2-LOAD-WP-C5-2: 190/903L
KEEPHILLS 320PS TO BENALTO 17S OUTAGE (NOVA OFF)
WED, MAR 02 2011 8:40

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-460

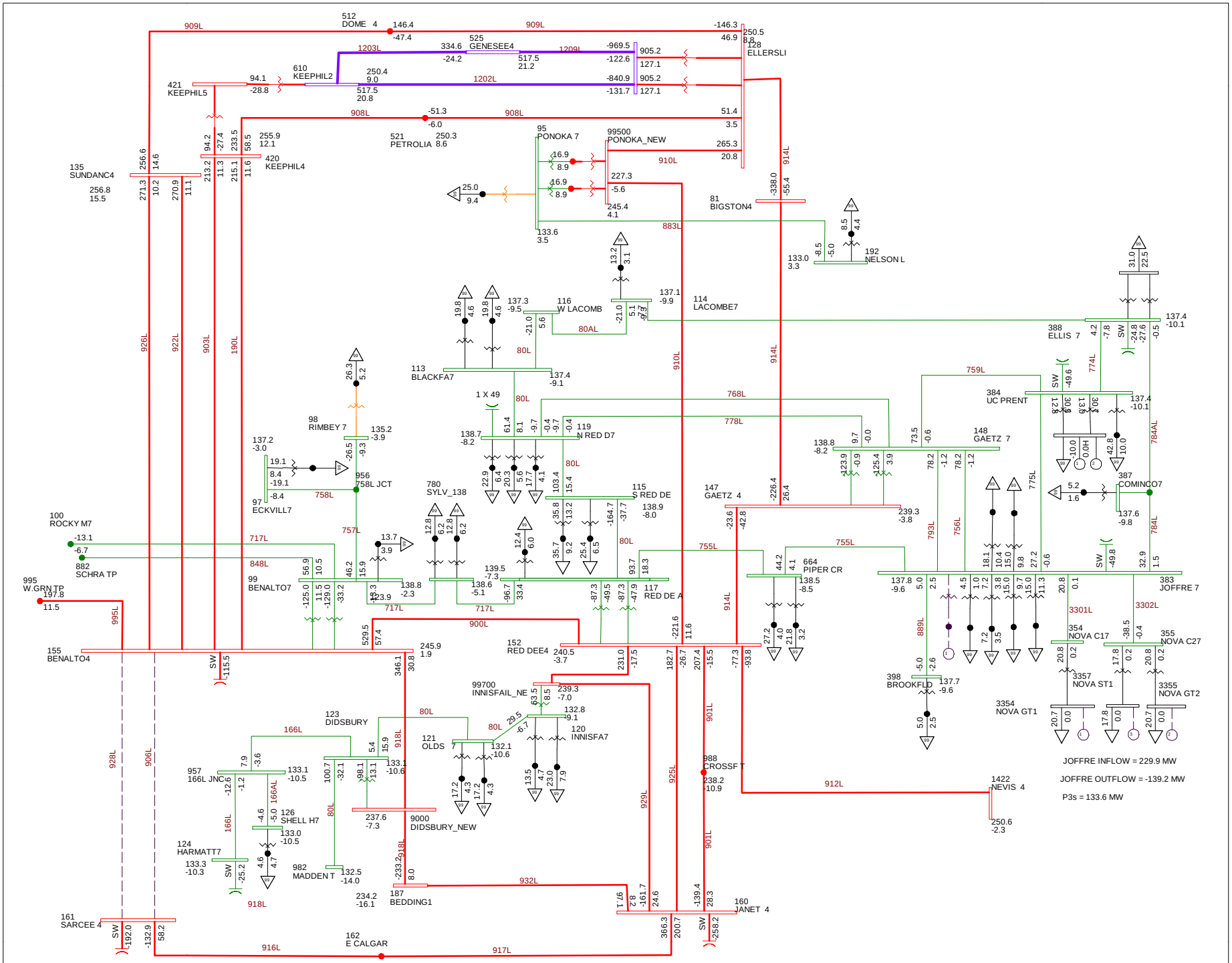


RED DEER REGION STUDY
2012 WINTER PEAK BASE CASE REVISION 6.5

FIG 2012-ALT2-LOAD-WP-C5-3: 926L SUNDANCE 821S TO BENALTO 17
995L AMOCO WILLESDEN 68S TO BENALTO 17S OUTAGE (NOVA OFF)
WED, MAR 02 2011 8:40

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-461

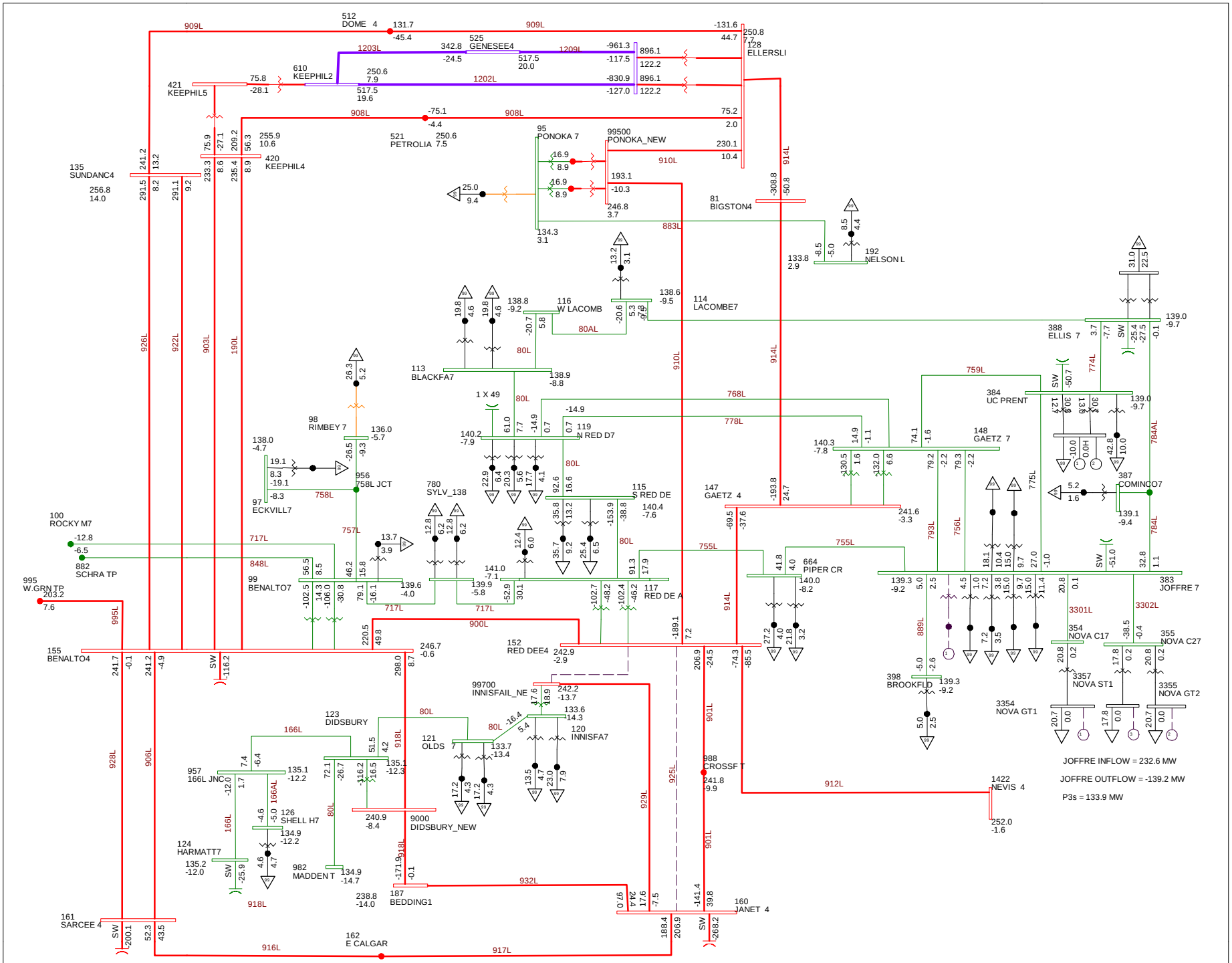


RED DEER REGION STUDY
2012 WINTER PEAK BASE CASE REVISION 6.5

FIG 2012-ALT2-LOAD-WP-C5-4: 928/906L
BENALTO 17S TO SARCEE575S OUTAGE (NOVA OFF)
WED, MAR 02 2011 8:40

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-462

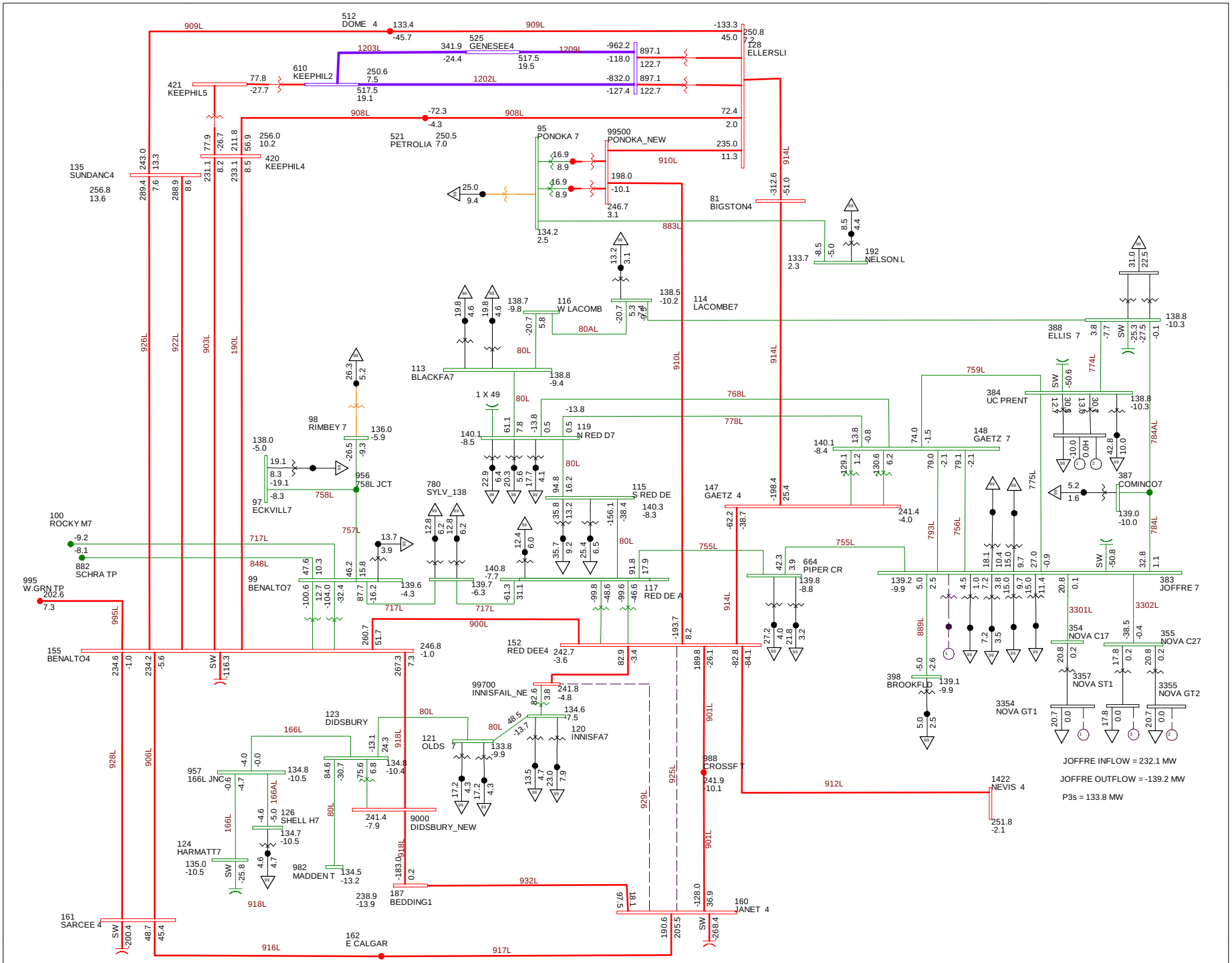


RED DEER REGION STUDY
2012 WINTER PEAK BASE CASE REVISION 6.5

FIG 2012-ALT2-LOAD-WP-C5-5: 925L RED DEER 63S TO JANET 74S
RED DEER 63S TO INNISFAILS 214S OUTAGE (NOVA OFF)
WED, MAR 02 2011 8:40

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-463

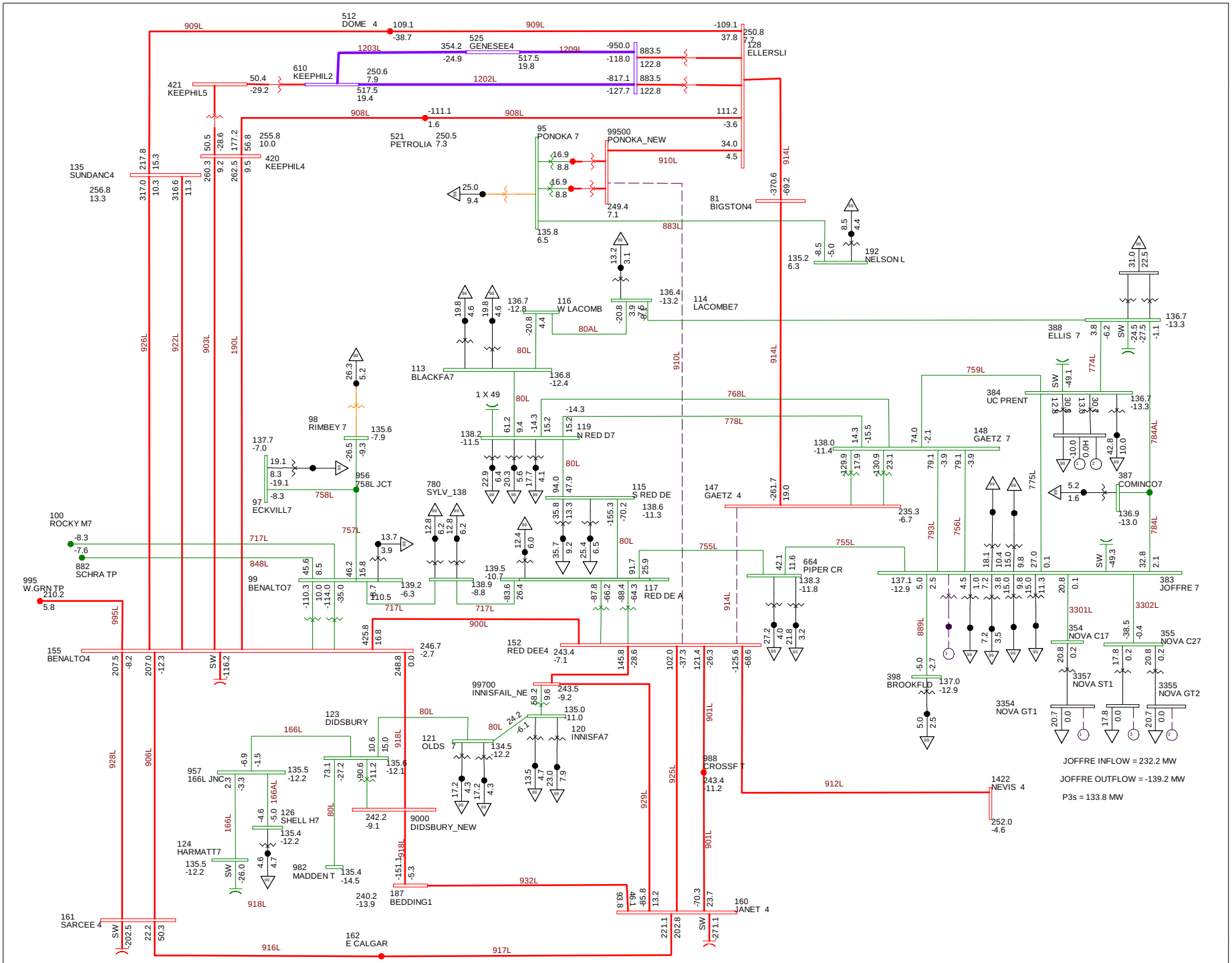


RED DEER REGION STUDY
2012 WINTER PEAK BASE CASE REVISION 6.5

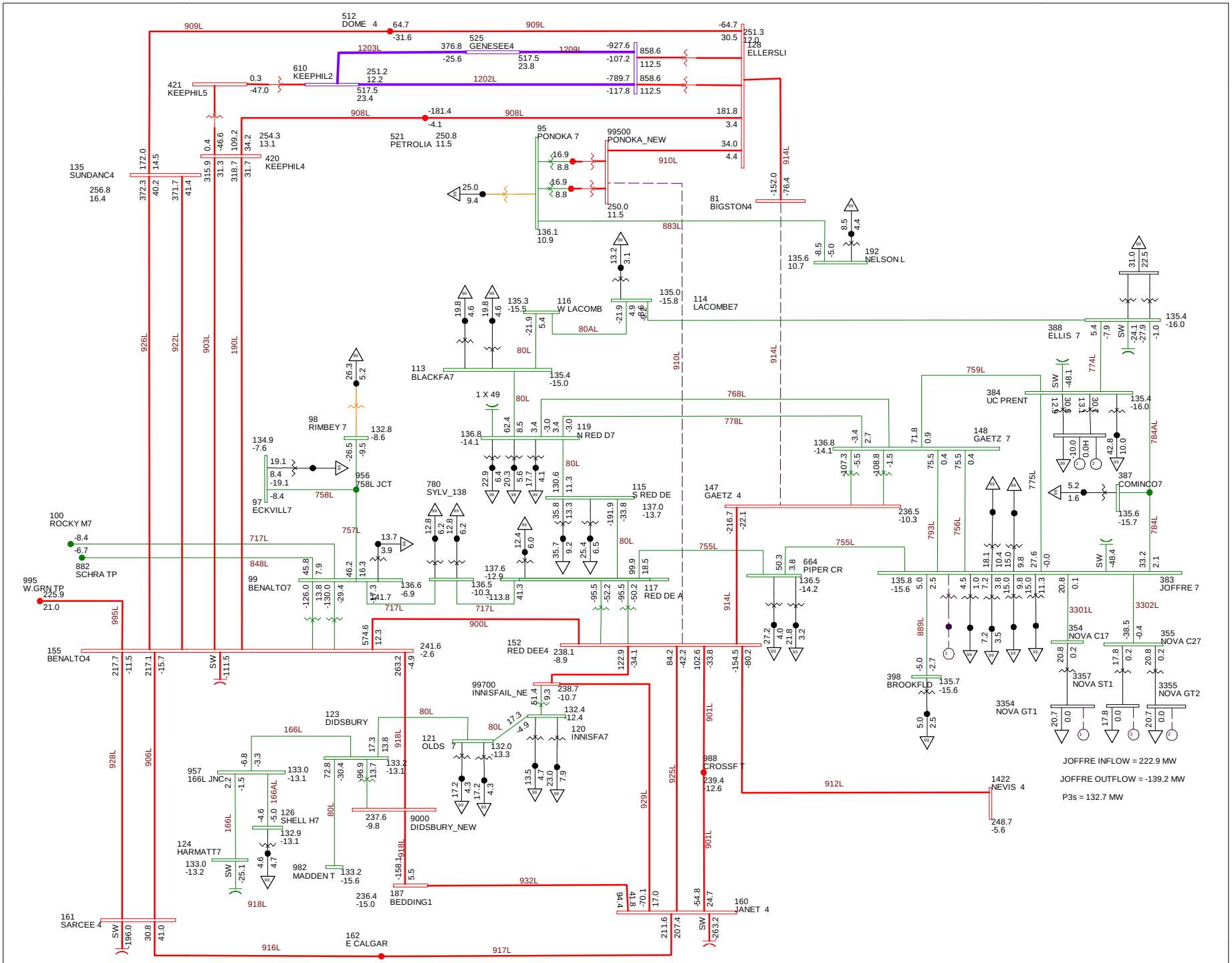
FIG 2012-ALT2-LOAD-WP-C5-6: 925L RED DEER 63S TO JANET 74S
INNISFAILS 214S TO JANET 74S OUTAGE (NOVA OFF)
WED, MAR 02 2011 8:40

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-464


512
DOME 4
109.1
-38.7
909L
525
GENESEE4
354.2
-24.9
1203L
517.5
19.8
1209L
-950.0
-118.0
883.5
122.8
-109.1
37.8
250.8
7.7
128
ELLERSLI
610
KEEPHIL2
250.6
7.9
517.5
19.4
1202L
-817.1
-127.7
883.5
122.8
421
KEEPHIL5
50.4
-29.2
908L
-111.1
1.6
908L
111.2
-3.6
521
PETROLIA
250.5
7.3
95
PONOKA 7
16.9
8.8
99500
PONOKA_NEW
34.0
4.5
910L
914L
-370.6
-69.2
249.4
7.1
135.8
6.5
883L
81
BIGSTON4
8.5
4.4
135.2
6.3
8.5
-5.0
192
NELSON L
135
SUNDANC4
256.8
13.3
420
KEEPHIL4
255.8
10.0
25.0
9.4
926L
922L
903L
190L
116
W LACOMB
136.7
-12.8
136.4
-13.2
114
LACOMBE7
80AL
80L
113
BLACKFA7
136.8
-12.4
910L
914L
759L
768L
778L
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ELLIS 7
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784AL
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UC PRENT
136.7
-13.3
98
RIMBEY 7
135.6
-7.9
137.7
-7.0
956
758L JCT
758L
97
ECKVILL7
1 X 49
119
N RED D7
138.2
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-14.3
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SYLV_138
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S RED DE
138.6
-11.3
147
GAETZ 4
235.3
-6.7
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148
GAETZ 7
387
COMINCO7
136.9
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775L
793L
756L
784L
100
ROCKY M7
-8.3
-7.6
882
SCHRA TP
717L
848L
757L
99
BENALTO7
139.2
-6.3
139.5
-10.7
138.9
-8.8
117
RED DE A
755L
664
PIPER CR
138.3
-11.8
383
JOFFRE 7
995
W.GRN TP
210.2
5.8
995L
155
BENALTO4
207.5
-8.2
207.0
-12.3
SW
-116.2
900L
246.7
-2.7
248.8
0.0
152
RED DEE4
243.4
-7.1
914L
889L
398
BROOKFLD
137.0
-12.9
3301L
3302L
354
NOVA C17
355
NOVA C27
3357
NOVA ST1
3355
NOVA GT2
3354
NOVA GT1
JOFFRE INFLOW = 232.2 MW
JOFFRE OUTFLOW = -139.2 MW
P3s = 133.8 MW
99700
INNISFAIL_NE
243.5
-9.2
120
INNISFA7
123
DIDSBURY
166L
121
OLDS 7
134.5
-12.2
928L
906L
957
166L JNC
135.5
-12.2
126
SHELL H7
135.4
-12.2
124
HARMATT7
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-12.2
982
MADDEN T
135.4
-14.5
242.2
-9.1
9000
DIDSBURY_NEW
918L
929L
925L
988
CROSSFT
243.4
-11.2
901L
912L
1422
NEVIS 4
252.0
-4.6
161
SARCEE 4
202.5
50.3
916L
162
E CALGAR
917L
187
BEDDING1
240.2
-13.9
932L
160
JANET 4
221.1
202.8
-271.1
RED DEER REGION STUDY
2012 WINTER PEAK BASE CASE REVISION 6.5
FIG 2012-ALT2-LOAD-WP-C5-7: 910L RED DEER 63S TO GAETZ 87S
914L RED DEER 63S TO PONOKA 331S OUTAGE (NOVA OFF)
WED, MAR 02 2011 8:40
Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000
<=138.000
>500.000
<=34.500
<=240.000
<=500.000

D-2012-465



RED DEER REGION STUDY

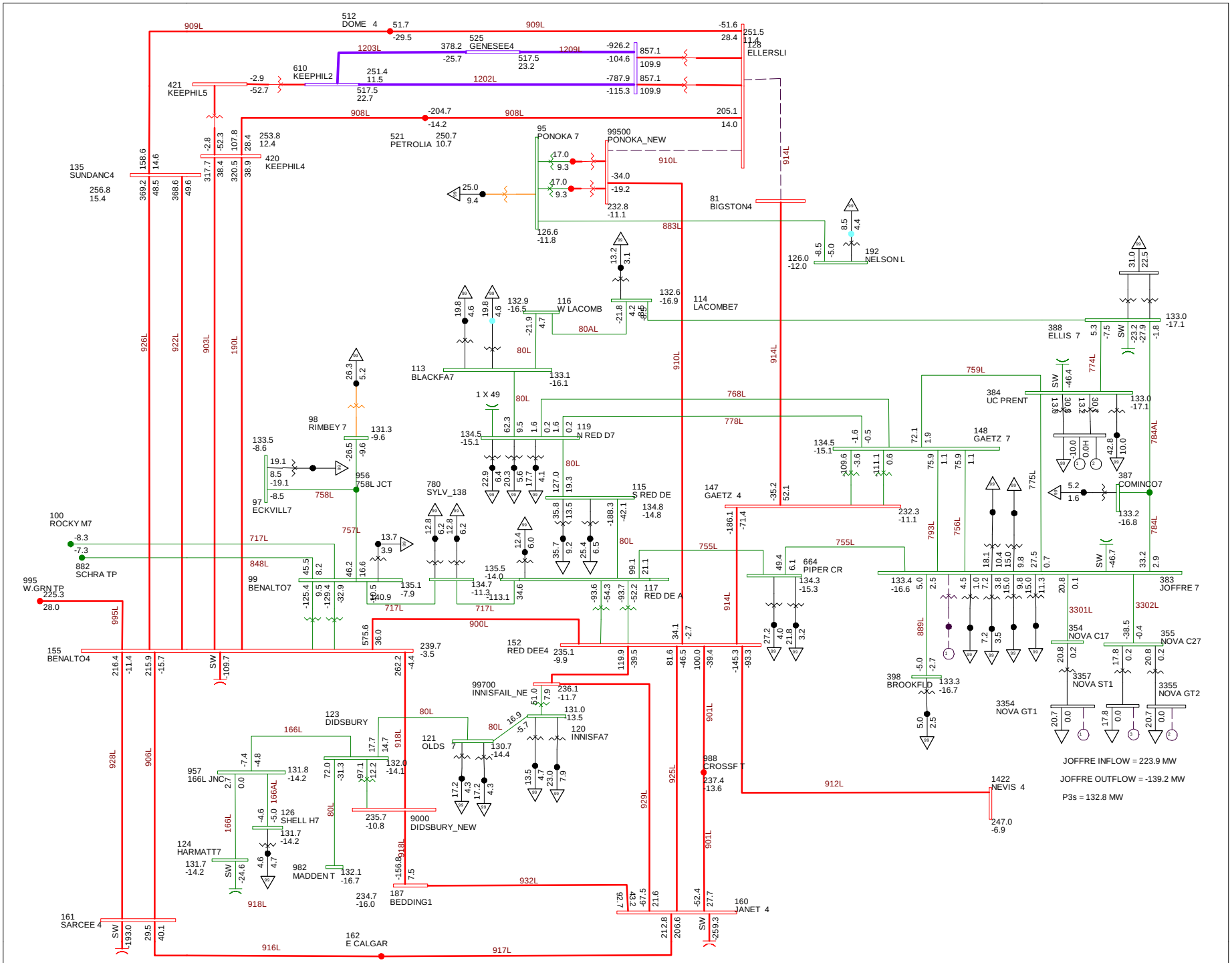
2012 WINTER PEAK BASE CASE REVISION 6.5

FIG 2012-ALT2-LOAD-WP-C5-8: 910L BIGSTONE 86S TO GAETZ 87S
914L RED DEER 63S TO PONOKA 331S OUTAGE (NOVA OFF)
WED, MAR 02 2011 8:40

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR

<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-466



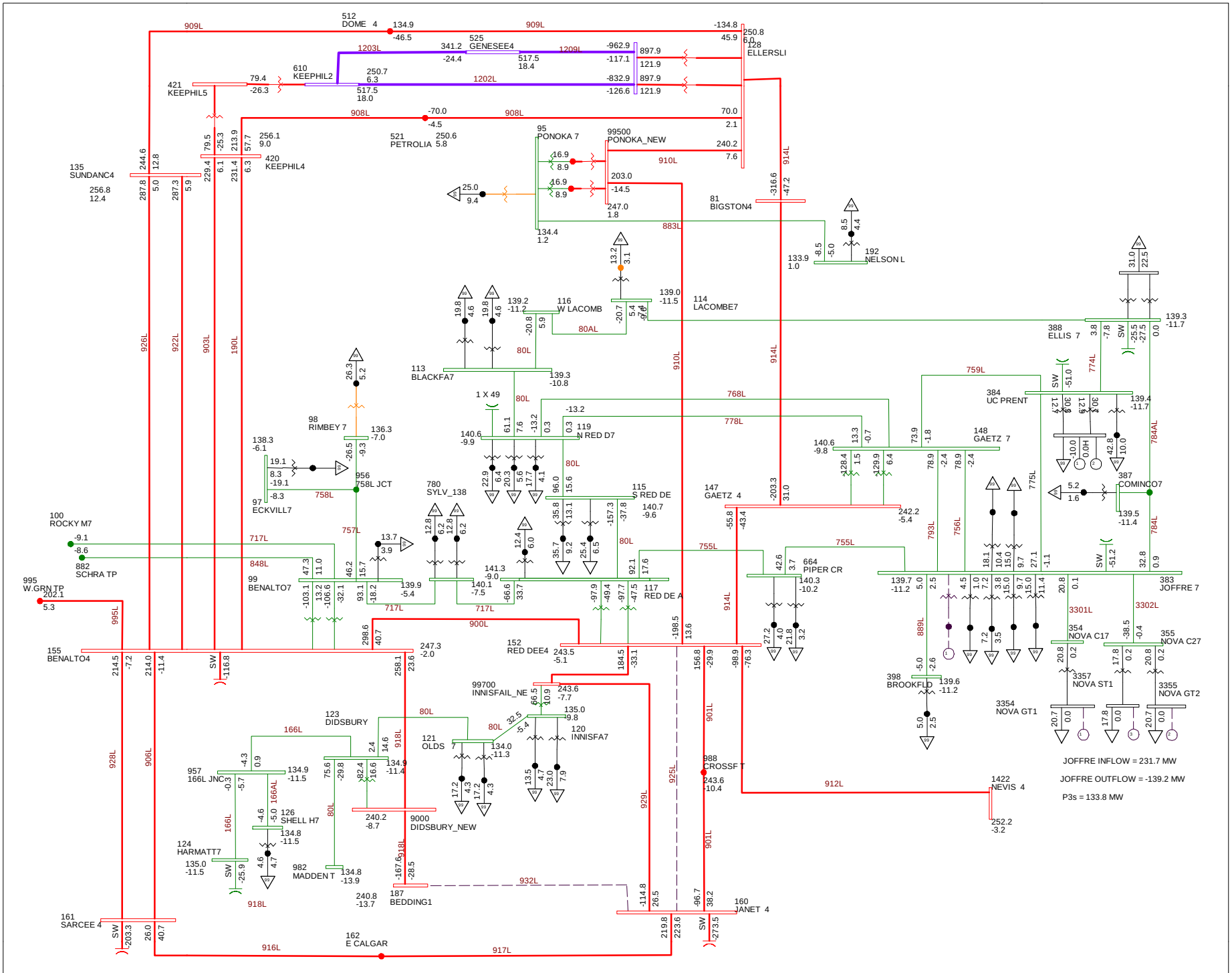
RED DEER REGION STUDY

2012 WINTER PEAK BASE CASE REVISION 6.5

FIG 2012-ALT2-LOAD-WP-C5-9: 910L ELLERSLIE 89S TO PONOKA 331
914L ELLERSLIE 89S TO BIGSTONE 86S OUTAGE (NOVA OFF)
WED, MAR 02 2011 8:40

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-467



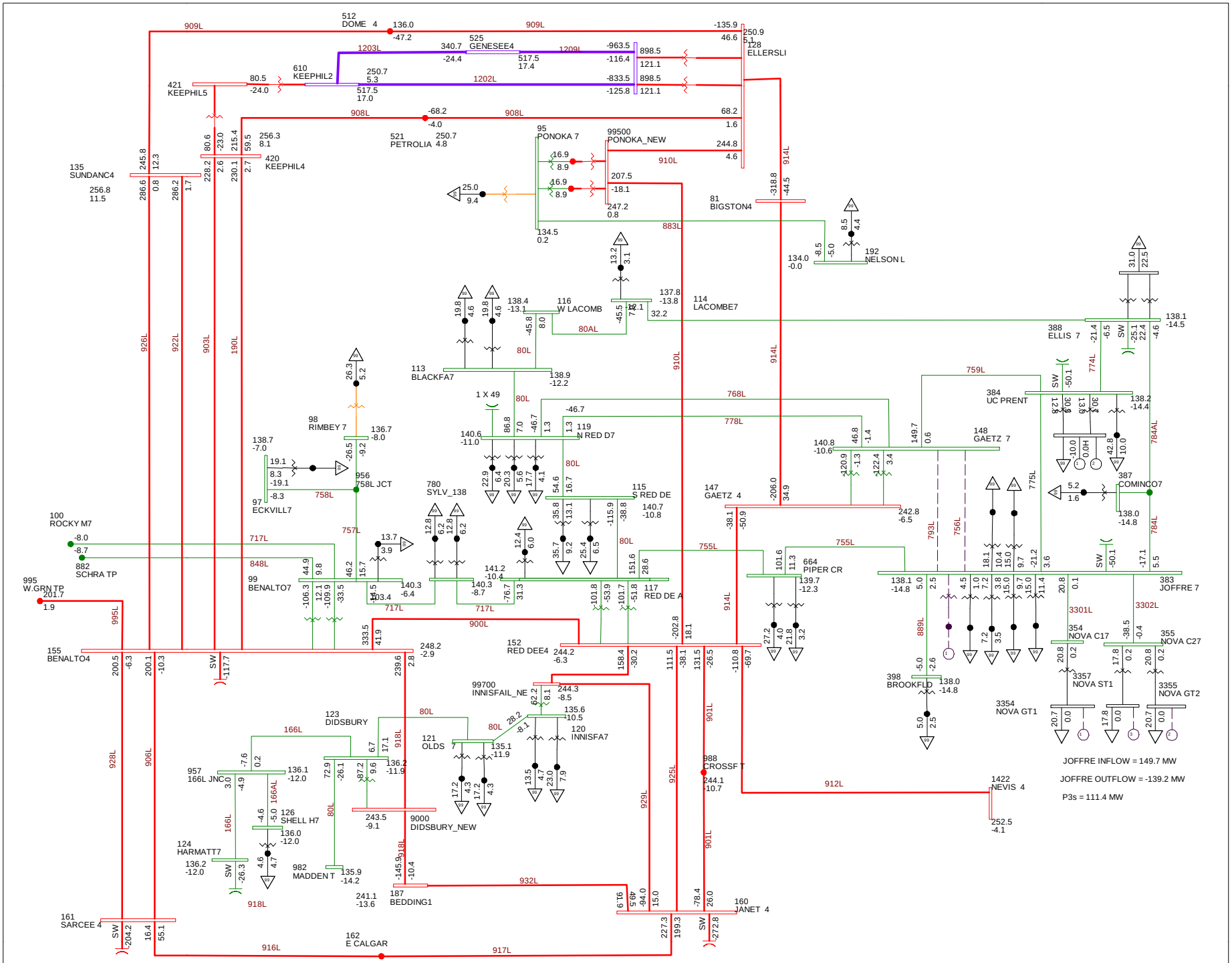
RED DEER REGION STUDY

2012 WINTER PEAK BASE CASE REVISION 6.5

FIG 2012-ALT2-LOAD-WP-C5-10: 918L BEDDING 162S TO JANET 74S
929L RED DEER 63S TO JANET 74S OUTAGE (NOVA OFF)
WED, MAR 02 2011 8:40

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-468

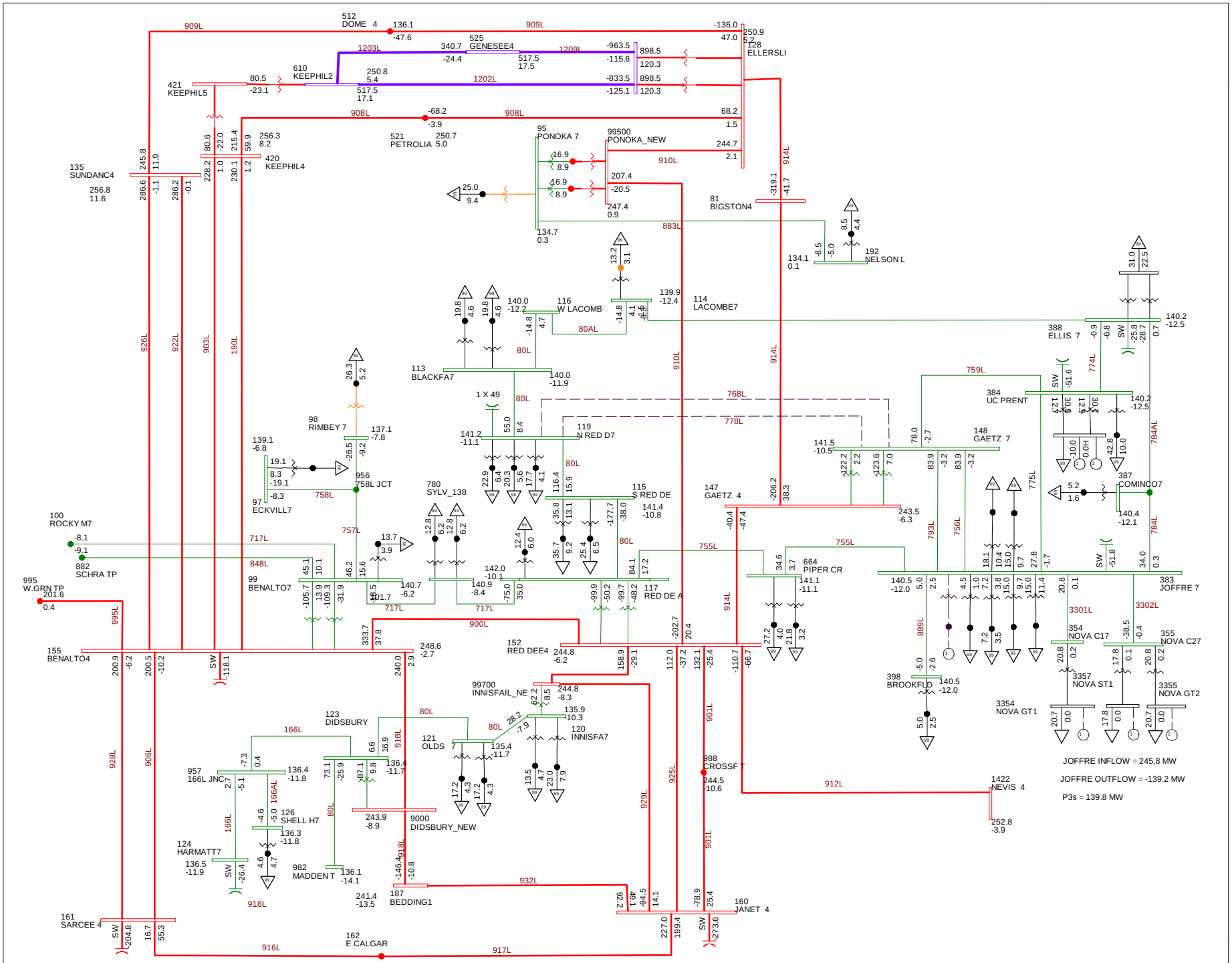


RED DEER REGION STUDY
2012 WINTER PEAK BASE CASE REVISION 6.5

FIG 2012-ALT2-LOAD-WP-C5-11: 756L/793L
GAETZ 87S TO JOFFRE 535S OUTAGE (NOVA OFF)
WED, MAR 02 2011 8:40

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-469



RED DEER REGION STUDY
2012 WINTER PEAK BASE CASE REVISION 6.5

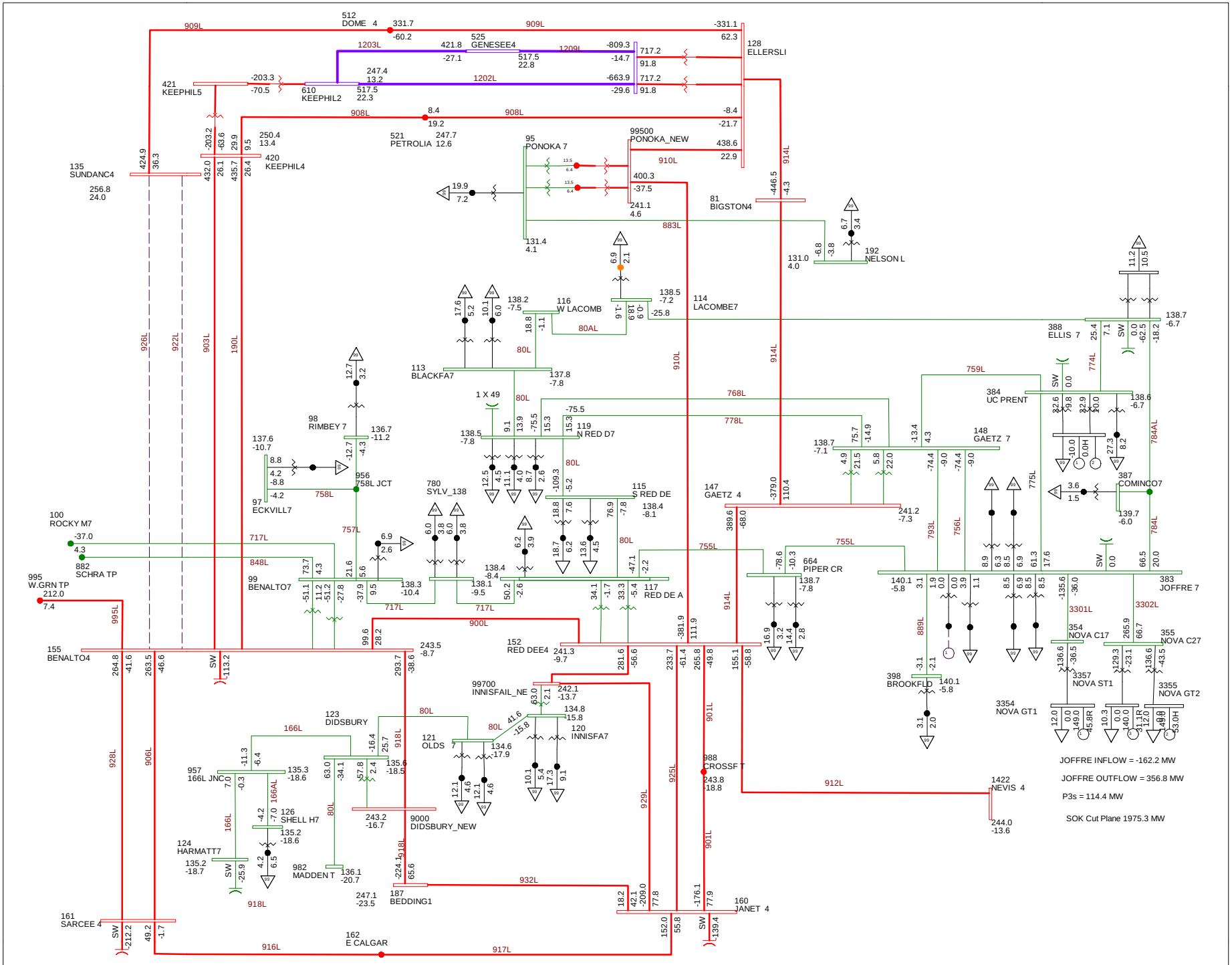
FIG 2012-ALT2-LOAD-WP-C5-12: 768L/778L
N. RED DEER 217S TO GAETZ 87S OUTAGE (NOVA OFF)
WED, MAR 02 2011 8:40

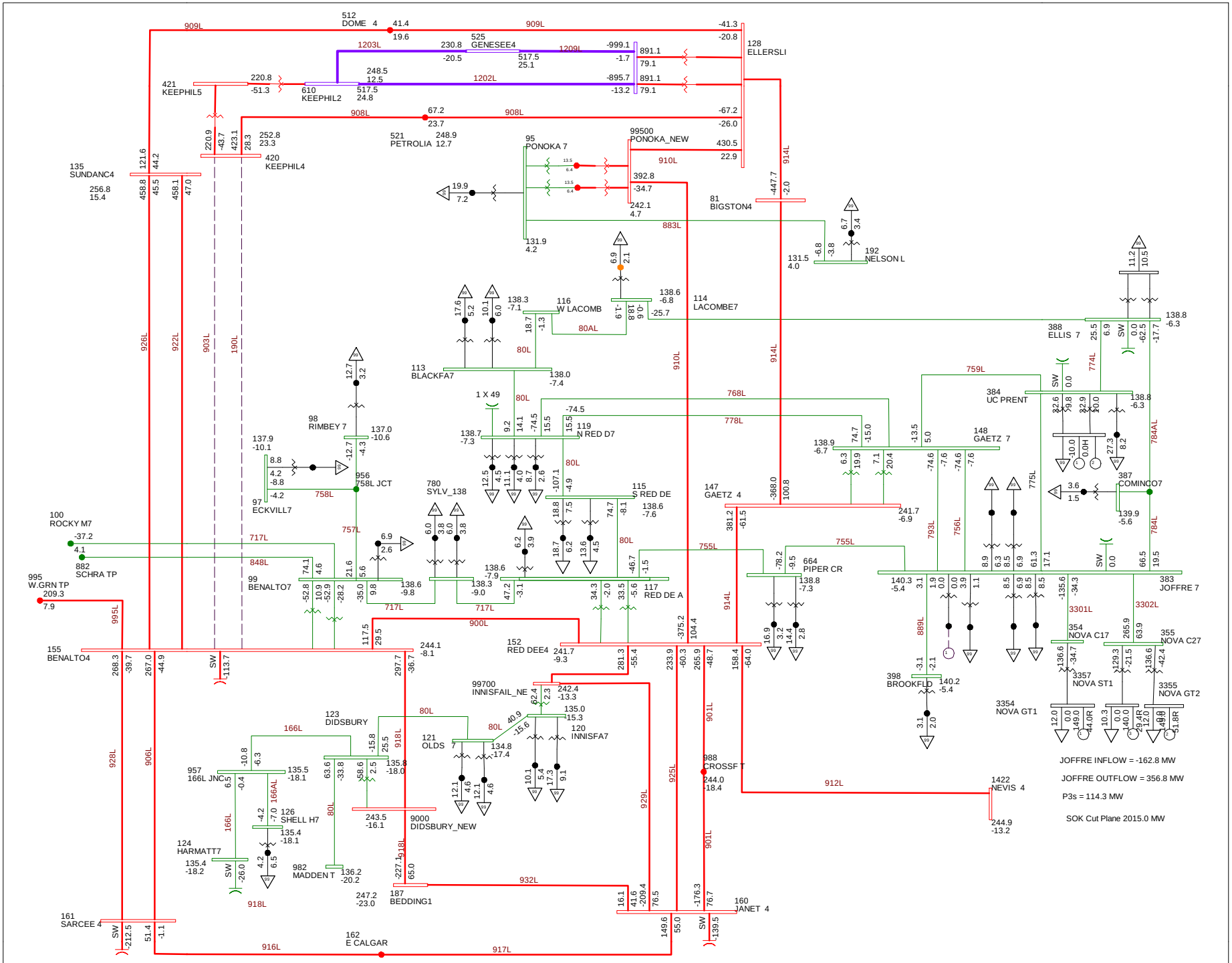
Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-470

Table D-2012-12: Summary of 2012 Load Adequacy Power Flow Analysis - Alternative 2 Category C5 (SP with High SOK Plane)

Figure No.	Contingency	Overloaded Element	Percent Overload	Other System Performance Concerns	SPS
Summer Peak					
Fig 2012-Alt2-Load-SP-C5-1 (High SOK)	922/926L (Sundance 821S to Benalto 17S)	None	N/A	None	None
Fig 2012-Alt2-Load-SP-C5-2 (High SOK)	190/903L(Keephills 320P to Benalto 17S)	None	N/A	None	None
Fig 2012-Alt2-Load-SP-C5-3 (High SOK)	926L (Sundance 821S to Benalto 17S) 995L (Amoco Willesden 68S to Benalto 17S)	None	N/A	None	None
Fig 2012-Alt2-Load-SP-C5-4 (High SOK) / Fig 2012-Alt2-Load-SP-C5-4-1 (High SOK)	928/906L(Benalto 17S to Sarcee 575S)	900L Red Deer 63S to Benalto 17S	102%	None	330MW Generation Curtailment at Sundance
		918L Benalto 17 S to Didsbury 152S	116%		
Fig 2012-Alt2-Load-SP-C5-5 (High SOK) / Fig 2012-Alt2-Load-SP-C5-5-1 (High SOK)	925L(Red Deer 63S to Janet 74S) 929L (Red Deer 63S to Innisfail 214S)	918L Benalto 17S to Didsbury 152S	104%	None	80MW Generation Curtailment at Sundance
Fig 2012-Alt2-Load-SP-C5-6 (High SOK)	925L(Red Deer 63S to Janet 74S) 929L (Innisfail 214S to Janet 74S)	None	N/A	None	None
Fig 2012-Alt2-Load-SP-C5-7 (High SOK)	910L (Red Deer 63S to Gaetz 87S) 914L (Red Deer 63S to Ponoka 331S)	None	N/A	None	None
Fig 2012-Alt2-Load-SP-C5-8 (High SOK)/ Fig 2012-Alt2-Load-SP-C5-8-1 (High SOK)	910L (Bigstone 86S to Gaetz 87S) 914L (Red Deer 63S to Ponoka 331S)	900L Red Deer 63S to Benalto 17S	105%	None	Curtail load of Red Deer area by 50% and Hanna area by 35%
Fig 2012-Alt2-Load-SP-C5-9 (High SOK) / Fig 2012-Alt2-Load-SP-C5-9 -1(High SOK)	910L (Ellerslie 89S to Ponoka 331S) 914L (Ellerslie 89s to Bigstone 86S)	900L Red Deer 63S to Benalto 17S	100%	None	Curtail load of Red Deer area by 25%
Fig 2012-Alt2-Load-SP-C5-10 (High SOK)	918L (Bedding 162S to Janet 74S) 929L (Red Deer 63S to Janet 74S)	None	N/A	None	None
Fig 2012-Alt2-Load-SP-C5-11(High SOK)	756/793L(Gaetz 87S to Joffre 535S)	None	N/A	None	None
Fig 2012-Alt2-Load-SP-C5-12 (High SOK)	768/778L(N. Red Deer 217S to Gaetz 87S)	None	N/A	None	None


512
DOME 4
331.7
-60.2
909L
525
GENESEE4
421.8
-27.1
517.5
22.8
1203L
1209L
1202L
-809.3
-14.7
717.2
91.8
-663.9
-29.6
247.4
13.2
517.5
22.3
-331.1
62.3
128
ELLERSLI
421
KEEPHIL5
-203.3
-70.5
610
KEEPHIL2
908L
8.4
19.2
-8.4
-21.7
521
PETROLIA
247.7
12.6
250.4
13.4
420
KEEPHIL4
135
SUNDANC4
256.8
24.0
424.9
36.3
95
PONOKA 7
99500
PONOKA_NEW
438.6
22.9
910L
914L
400.3
-37.5
241.1
4.6
19.9
7.2
131.4
4.1
81
BIGSTON4
-446.5
-4.3
883L
6.7
3.4
192
NELSON L
131.0
4.0
6.8
-3.8
6.9
2.1
138.5
-7.2
-25.8
114
LACOMBE7
116
W LACOMB
138.2
-7.5
80AL
80L
113
BLACKFA7
137.8
-7.8
17.6
5.2
10.1
6.0
18.8
-1.1
926L
922L
903L
190L
910L
914L
759L
768L
778L
784AL
774L
775L
793L
756L
784L
3301L
3302L
889L
901L
929L
925L
912L
906L
928L
995L
900L
848L
757L
758L
717L
932L
916L
917L
918L
918L
388
ELLIS 7
138.7
-6.7
25.4
7.1
SW
0.0
-62.5
-18.2
11.2
10.5
384
UC PRENT
138.6
-6.7
32.6
29.8
32.9
30.0
10.0
0.0H
27.3
8.2
SW
0.0
148
GAETZ 7
138.7
-7.1
75.7
-14.9
4.9
21.5
5.8
22.0
-13.4
4.3
-74.4
-9.0
-74.4
-9.0
147
GAETZ 4
-379.0
110.4
241.2
-7.3
389.6
-68.0
387
COMINCO7
3.6
1.5
139.7
-6.0
784L
SW
0.0
66.5
20.0
383
JOFFRE 7
140.1
-5.8
1.9
0.0
3.9
1.1
3.1
0.0
8.5
6.9
8.5
8.5
-135.6
-36.0
265.9
66.7
354
NOVA C17
355
NOVA C27
136.6
-36.5
129.3
-23.1
136.6
-43.5
3357
NOVA ST1
3355
NOVA GT2
3354
NOVA GT1
398
BROOKFLD
140.1
-5.8
3.1
2.0
-3.1
-2.1
JOFFRE INFLOW = -162.2 MW
JOFFRE OUTFLOW = 356.8 MW
P3s = 114.4 MW
SOK Cut Plane 1975.3 MW
1422
NEVIS 4
244.0
-13.6
988
CROSSFT
243.8
-18.8
901L
100
ROCKY M7
-37.0
4.3
882
SCHRA TP
995
W.GRN TP
212.0
7.4
155
BENALTO4
264.8
-41.6
263.5
-46.6
SW
113.2
293.7
-38.6
243.5
-8.7
99.6
28.2
99
BENALTO7
73.7
4.3
-51.1
11.2
-51.2
-27.8
21.6
5.6
-37.9
9.5
138.3
-10.4
6.9
2.6
97
ECKVILL7
137.6
-10.7
8.8
4.2
-8.8
-4.2
98
RIMBEY 7
136.7
-11.2
12.7
3.2
-12.7
-4.3
956
758L JCT
780
SYLV_138
138.4
-8.4
138.1
-9.5
50.2
-2.6
6.0
3.8
6.0
3.8
6.2
3.9
18.7
6.2
13.6
4.5
76.9
-7.8
138.4
-8.1
115
S RED DE
-109.3
-5.2
12.5
4.5
11.1
4.0
8.7
2.6
1 X 49
80L
119
N RED D7
-75.5
15.3
15.3
9.1
13.9
-75.5
138.5
-7.8
-18.8
7.6
-47.1
-2.2
34.1
-1.7
33.3
-5.4
117
RED DE A
664
PIPER CR
138.7
-7.8
-78.6
-10.3
16.9
3.2
14.4
2.8
152
RED DEE4
241.3
-9.7
99.6
28.2
243.5
-8.7
-381.9
111.9
281.6
-56.6
233.7
-61.4
265.8
-49.8
155.1
-58.8
99700
INNISFAIL_NE
242.1
-13.7
63.0
2.1
134.8
-15.8
41.6
-15.8
120
INNISFA7
123
DIDSBURY
166L
957
166L JNC
135.3
-18.6
7.0
-0.3
-11.3
-6.4
63.0
-34.1
-16.4
25.7
57.8
2.4
135.6
-18.5
243.2
-16.7
9000
DIDSBURY_NEW
121
OLDS 7
134.6
-17.9
12.1
4.6
12.1
4.6
10.1
5.4
17.3
9.1
126
SHELL H7
135.2
-18.6
-4.2
-7.0
166AL
124
HARMATT7
135.2
-18.7
SW
-25.9
4.2
6.5
982
MADDEN T
136.1
-20.7
247.1
-23.5
187
BEDDING1
-224.1
65.6
18.2
42.1
-209.0
77.8
-176.1
77.9
160
JANET 4
152.0
55.8
SW
-139.4
161
SARCEE 4
SW
-212.2
49.2
-1.7
162
E CALGAR
D-2012-472
RED DEER REGION STUDY
2012 S3_SOK_PK (2012 SUMMER PEAK CASE)
FIG 2012-ALT2-LOAD-SP-C5-1(HIGH SOK): 922/926L
SUNDANCE 821S TO BENALTO 17S OUTAGE
WED, MAR 02 2011 8:25
Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000
<=138.000
>500.000
<=34.500
<=240.000
<=500.000

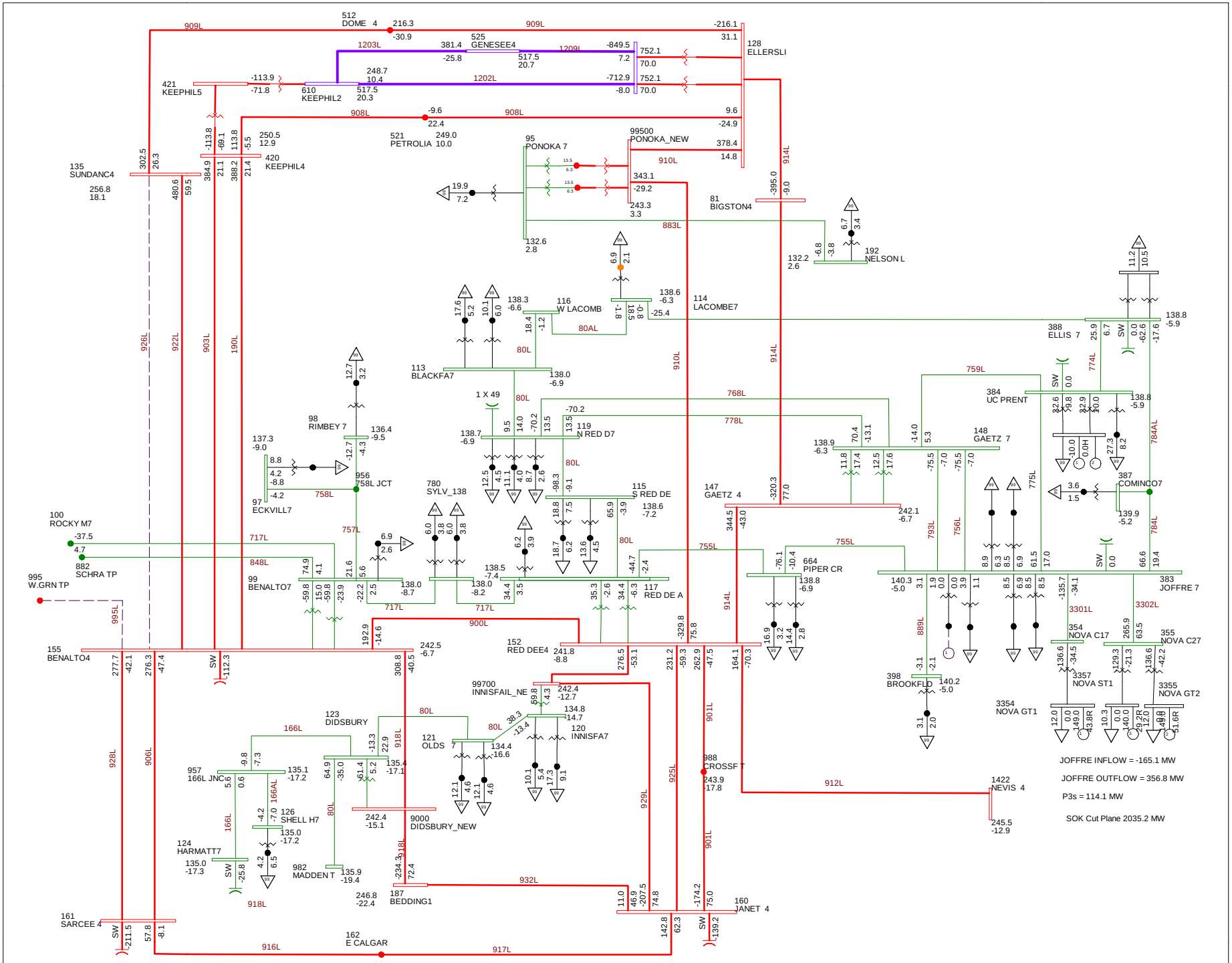


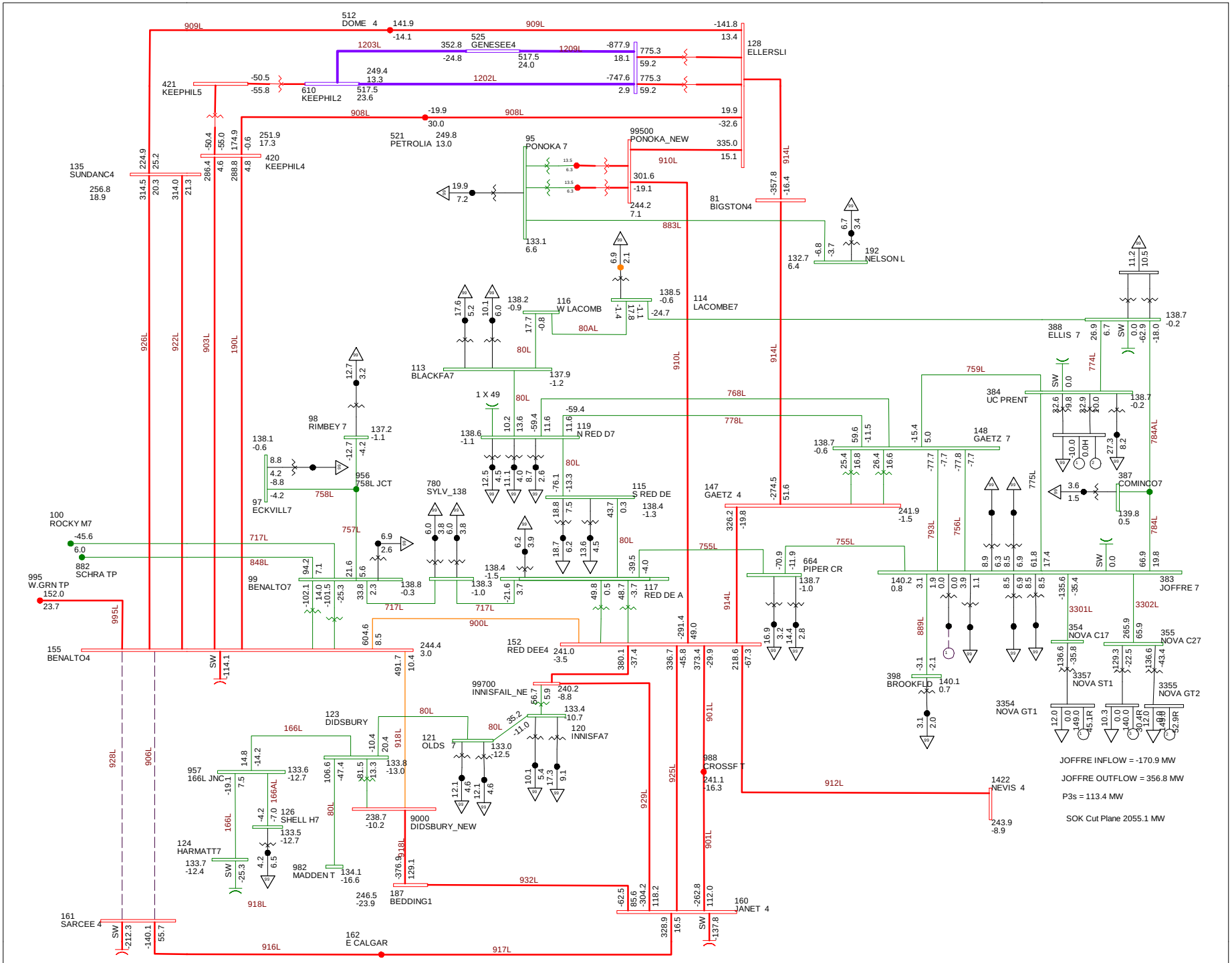
RED DEER REGION STUDY
2012 S3_SOK_PK (2012 SUMMER PEAK CASE)

FIG 2012-ALT2-LOAD-SP-C5-2(HIGH SOK): 190/903L
KEEPHILLS 320PS TO BENALTO 17S OUTAGE
WED, MAR 02 2011 8:25

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-473


512
DOME 4
216.3
-30.9
909L
525
GENESEE4
381.4
-25.8
517.5
20.7
1203L
1209L
-849.5
7.2
752.1
70.0
752.1
70.0
-712.9
-8.0
1202L
248.7
10.4
517.5
20.3
610
KEEPHIL2
-113.9
-71.8
421
KEEPHIL5
909L
-216.1
31.1
128
ELLERSLI
908L
-9.6
22.4
908L
9.6
-24.9
521
PETROLIA
249.0
10.0
250.5
12.9
-113.8
-69.1
113.8
-5.5
420
KEEPHIL4
135
SUNDANC4
256.8
18.1
302.5
26.3
480.6
59.5
384.9
21.1
388.2
21.4
95
PONOKA 7
99500
PONOKA_NEW
378.4
14.8
910L
343.1
-29.2
243.3
3.3
19.9
7.2
132.6
2.8
914L
-395.0
-9.0
81
BIGSTON4
883L
6.7
3.4
192
NELSON L
132.2
2.6
6.8
-3.8
6.9
2.1
138.6
-6.3
-25.4
114
LACOMBE7
138.3
-6.6
116
W LACOMB
18.4
-1.2
80AL
8.8
10.5
-8.8
17.6
5.2
10.1
6.0
113
BLACKFA7
138.0
-6.9
80L
910L
914L
926L
922L
903L
190L
759L
768L
778L
1 X 49
80L
98
RIMBEY 7
136.4
-9.5
12.7
3.2
-12.7
-4.3
137.3
-9.0
8.8
4.2
-8.8
-4.2
956
758L JCT
758L
97
ECKVILL7
780
SYLV_138
138.7
-6.9
9.5
14.0
-70.2
13.5
119
N RED D7
-70.2
13.5
80L
12.5
4.5
11.1
4.0
8.7
2.6
-98.3
-9.1
115
S RED DE
138.6
-7.2
65.9
-3.9
-18.8
7.5
18.7
6.2
13.6
4.5
-44.7
-2.4
80L
6.0
3.8
6.0
3.8
6.2
3.9
138.5
-7.4
138.0
-8.2
34.4
3.5
35.3
-2.6
34.4
-6.3
117
RED DE A
138.0
-8.7
717L
757L
6.9
2.6
100
ROCKY M7
-37.5
4.7
882
SCHRA TP
995
W.GRN TP
717L
848L
99
BENALTO7
74.9
4.1
21.6
5.6
-59.8
15.0
-59.8
-23.9
-22.2
2.5
995L
155
BENALTO4
277.7
-42.1
276.3
-47.4
SW
-112.3
308.8
-40.5
242.5
-6.7
192.9
-14.6
900L
152
RED DEE4
241.8
-8.8
276.5
-53.1
231.2
-59.3
262.9
-47.5
164.1
-70.3
-329.8
75.8
914L
147
GAETZ 4
-320.3
77.0
344.5
-43.0
242.1
-6.7
-14.0
5.3
-75.5
-7.0
-75.5
-7.0
148
GAETZ 7
138.9
-6.3
70.4
-13.1
11.8
17.4
12.5
17.6
755L
664
PIPER CR
138.8
-6.9
-76.1
-10.4
16.9
3.2
14.4
2.8
140.3
-5.0
3.1
1.9
0.0
0.0
3.9
1.1
889L
-3.1
-2.1
398
BROOKFLD
140.2
-5.0
3.1
2.0
8.5
6.9
8.5
8.5
-135.7
-34.1
3301L
354
NOVA C17
136.6
-34.5
3357
NOVA ST1
129.3
-21.3
265.9
63.5
3302L
355
NOVA C27
136.6
-42.2
3355
NOVA GT2
3354
NOVA GT1
12.0
0.0
149.0
43.8R
10.3
0.0
140.0
29.2R
12.0
0.0
149.0
51.6R
793L
756L
775L
784L
784AL
774L
759L
768L
778L
383
JOFFRE 7
388
ELLIS 7
25.9
6.7
SW
0.0
-62.6
-17.6
138.8
-5.9
384
UC PRENT
SW
0.0
32.6
29.8
32.9
30.0
10.0
0.0H
27.3
8.2
138.8
-5.9
387
COMINCO7
3.6
1.5
139.9
-5.2
SW
0.0
66.6
19.4
11.2
10.5
JOFFRE INFLOW = -165.1 MW
JOFFRE OUTFLOW = 356.8 MW
P3s = 114.1 MW
SOK Cut Plane 2035.2 MW
99700
INNISFAIL_NE
242.4
-12.7
59.8
4.3
134.8
-14.7
38.3
-13.4
80L
123
DIDSBURY
166L
-13.3
22.9
918L
121
OLDS 7
134.4
-16.6
120
INNISFA7
12.1
4.6
12.1
4.6
10.1
5.4
17.3
9.1
957
166L JNC
135.1
-17.2
-9.8
-7.3
5.8
0.6
64.9
-35.0
61.4
5.2
135.4
-17.1
242.4
-15.1
9000
DIDSBURY_NEW
928L
906L
929L
925L
901L
988
CROSSFT
243.9
-17.8
912L
1422
NEVIS 4
245.5
-12.9
126
SHELL H7
135.0
-17.2
166L
166AL
-4.2
-7.0
80L
124
HARMATT7
135.0
-17.3
SW
-25.8
4.2
6.5
982
MADDEN T
135.9
-19.4
-234.3
72.4
918L
932L
246.8
-22.4
187
BEDDING1
11.0
46.9
-207.5
74.8
-174.2
75.0
160
JANET 4
142.8
62.3
SW
-139.2
161
SARCEE 4
SW
-211.5
57.8
-8.1
916L
162
E CALGAR
917L
D-2012-474
RED DEER REGION STUDY
2012 S3_SOK_PK (2012 SUMMER PEAK CASE)
FIG 2012-ALT2-LOAD-SP-C5-3(HIGH SOK): 926L SUNDANCE 821S TO
995L AMOCO WILLESDEN 68S TO BENALTO 17S OUTAGE
WED, MAR 02 2011 8:25
Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000
<=138.000
>500.000
<=34.500
<=240.000
<=500.000

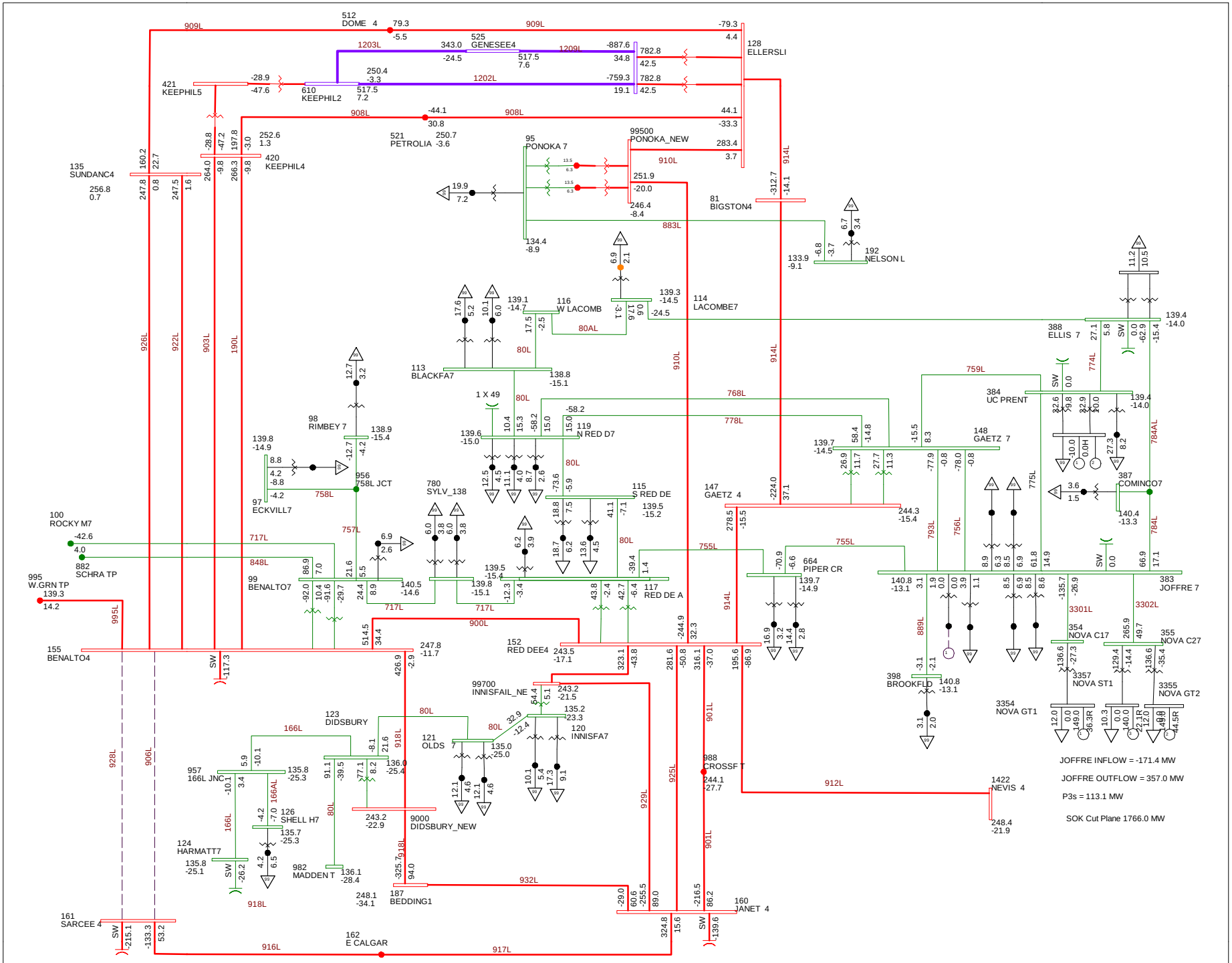


RED DEER REGION STUDY
2012 S3_SOK_PK (2012 SUMMER PEAK CASE)

FIG 2012-ALT2-LOAD-SP-C5-4(HIGH SOK): 928/906L
BENALTO 17S TO SARCEE575S OUTAGE
WED, MAR 02 2011 8:25

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-475

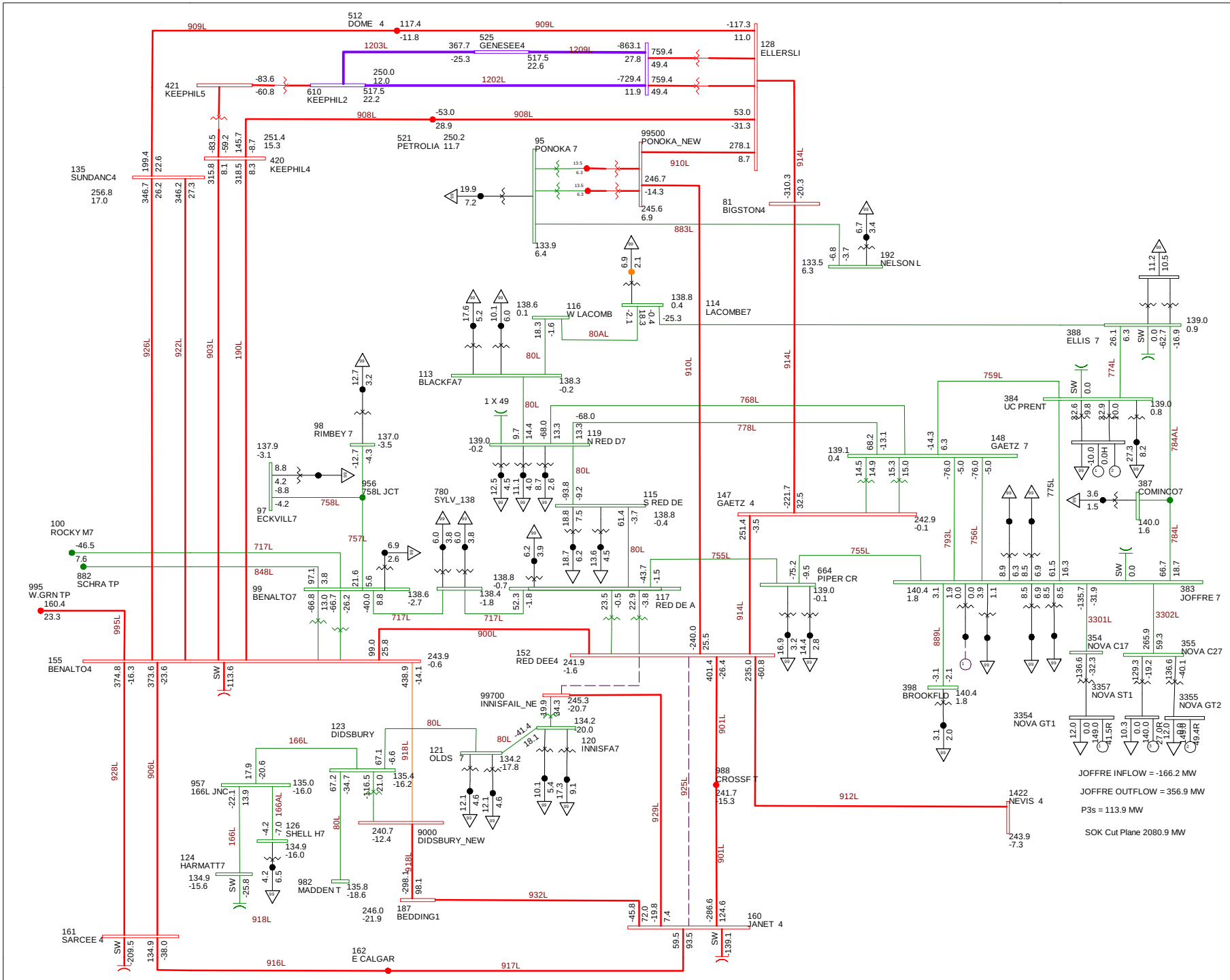


RED DEER REGION STUDY
2012 S3_SOK_PK (2012 SUMMER PEAK CASE)

FIG 2012-ALT2-LOAD-SP-C5-4-1(HIGH SOK): 928/906L
BENALTO 17S TO SARCEE575S OUTAGE WITH RAS
WED, MAR 02 2011 8:25

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-476

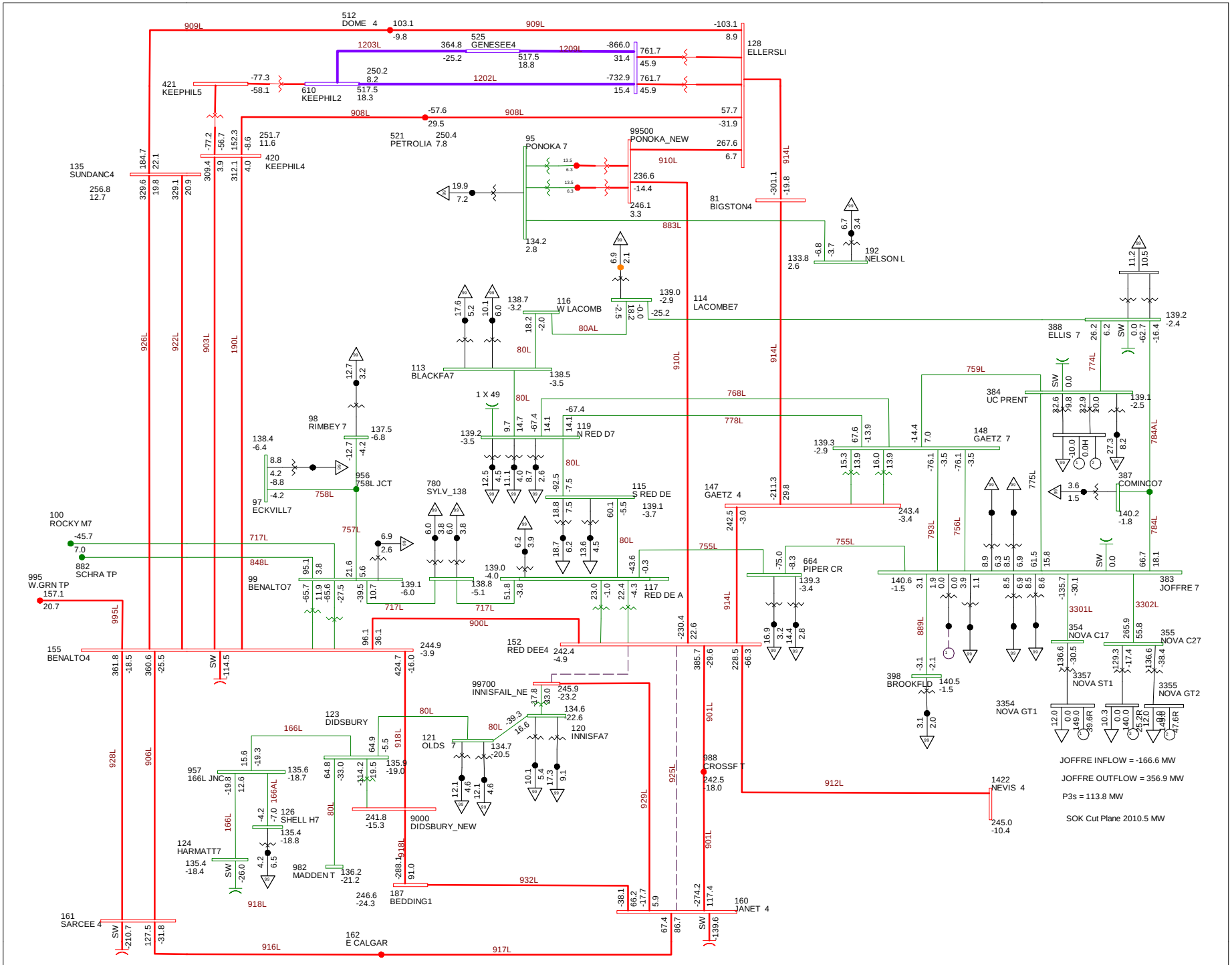


RED DEER REGION STUDY
2012 S3_SOK_PK (2012 SUMMER PEAK CASE)

FIG 2012-ALT2-LOAD-SP-C5-5(HIGH SOK): 925L RED DEER 63S TO J
RED DEER 63S TO INNISFAILS 214S OUTAGE
WED, MAR 02 2011 8:25

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-477

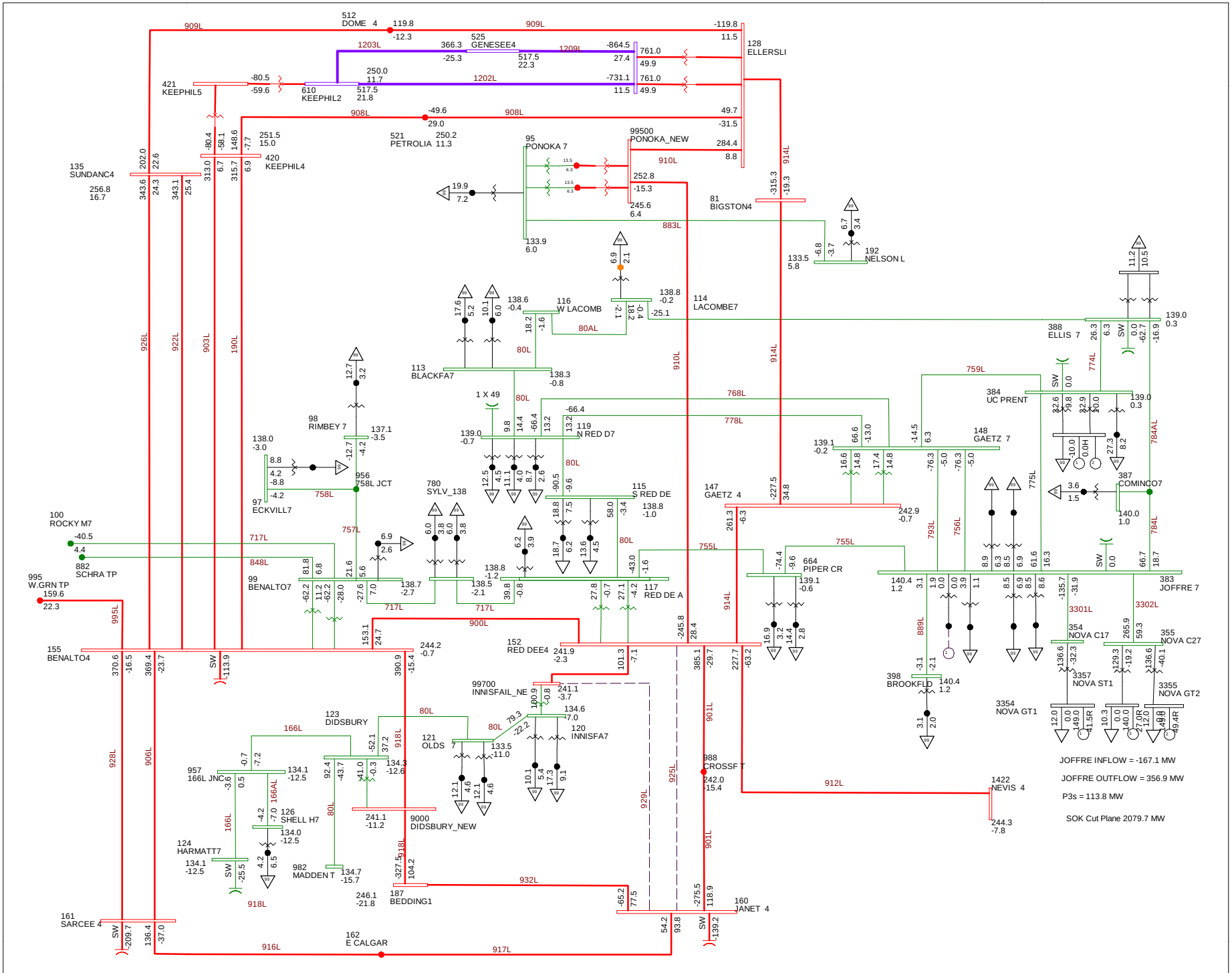


RED DEER REGION STUDY
2012 S3_SOK_PK (2012 SUMMER PEAK CASE)

FIG 2012-ALT2-LOAD-SP-C5-5-1(HIGH SOK): 925L RED DEER 63S TO RED DEER 63S TO INNISFAILS 214S OUTAGE WITH RAS
WED, MAR 02 2011 8:25

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-478

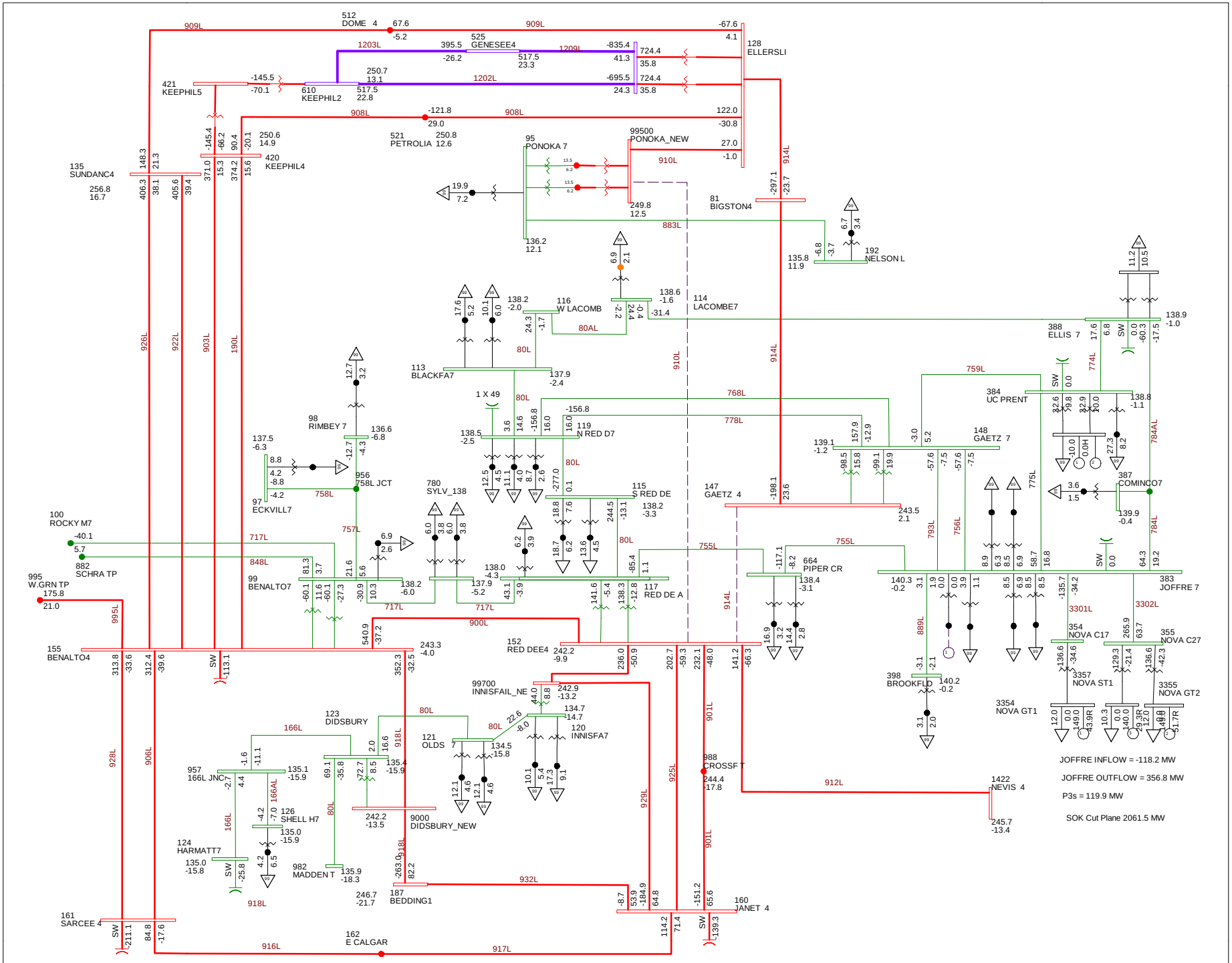


RED DEER REGION STUDY
2012 S3_SOK_PK (2012 SUMMER PEAK CASE)

FIG 2012-ALT2-LOAD-SP-C5-6(HIGH SOK): 925L RED DEER 63S TO J
INNISFAILS 214S TO JANET 74S OUTAGE
WED, MAR 02 2011 8:25

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-479

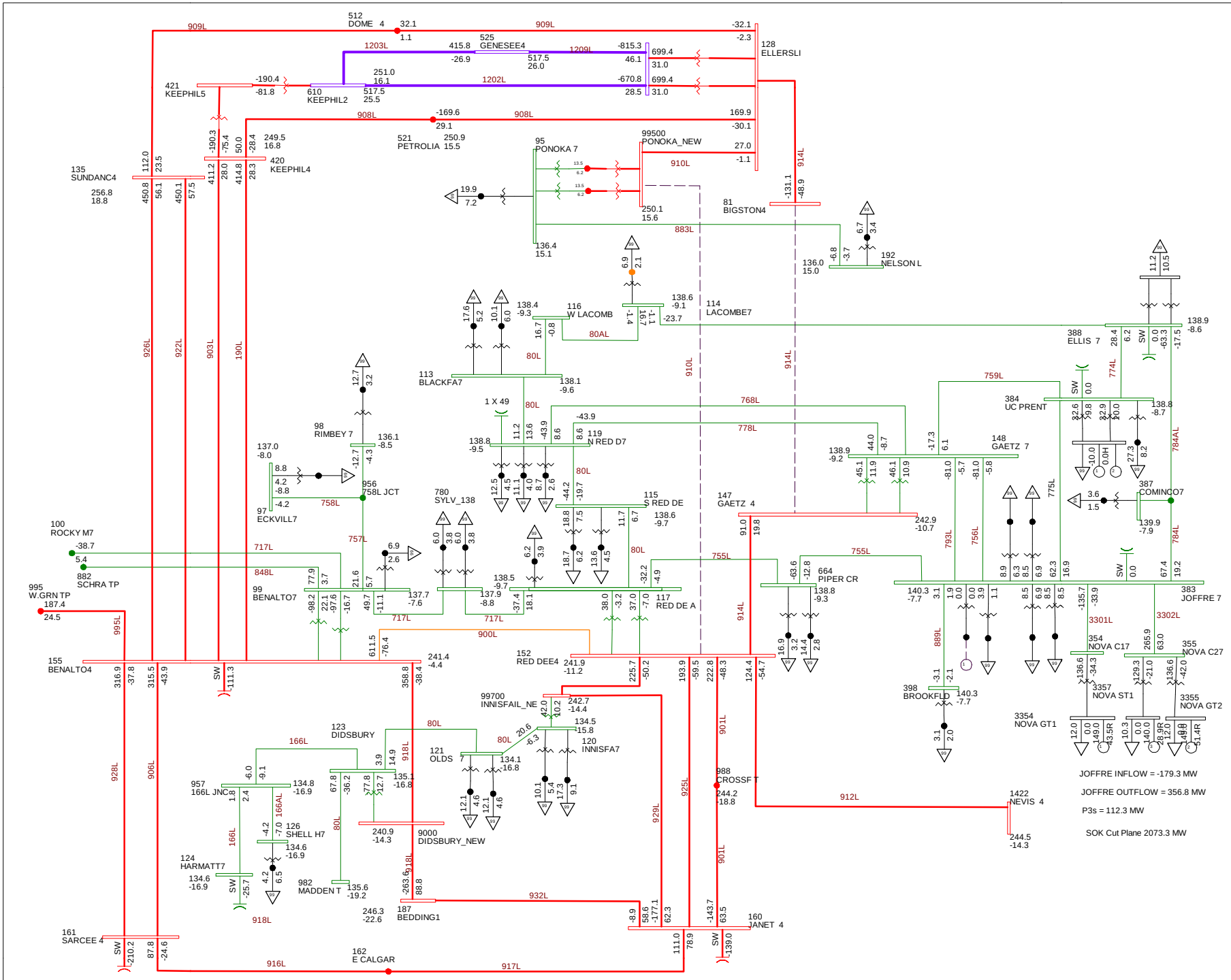


RED DEER REGION STUDY
2012 S3_SOK_PK (2012 SUMMER PEAK CASE)

FIG 2012-ALT2-LOAD-SP-C5-7(HIGH SOK): 910L RED DEER 63S TO G
914L RED DEER 63S TO PONOKA 331S OUTAGE
WED, MAR 02 2011 8:25

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-480



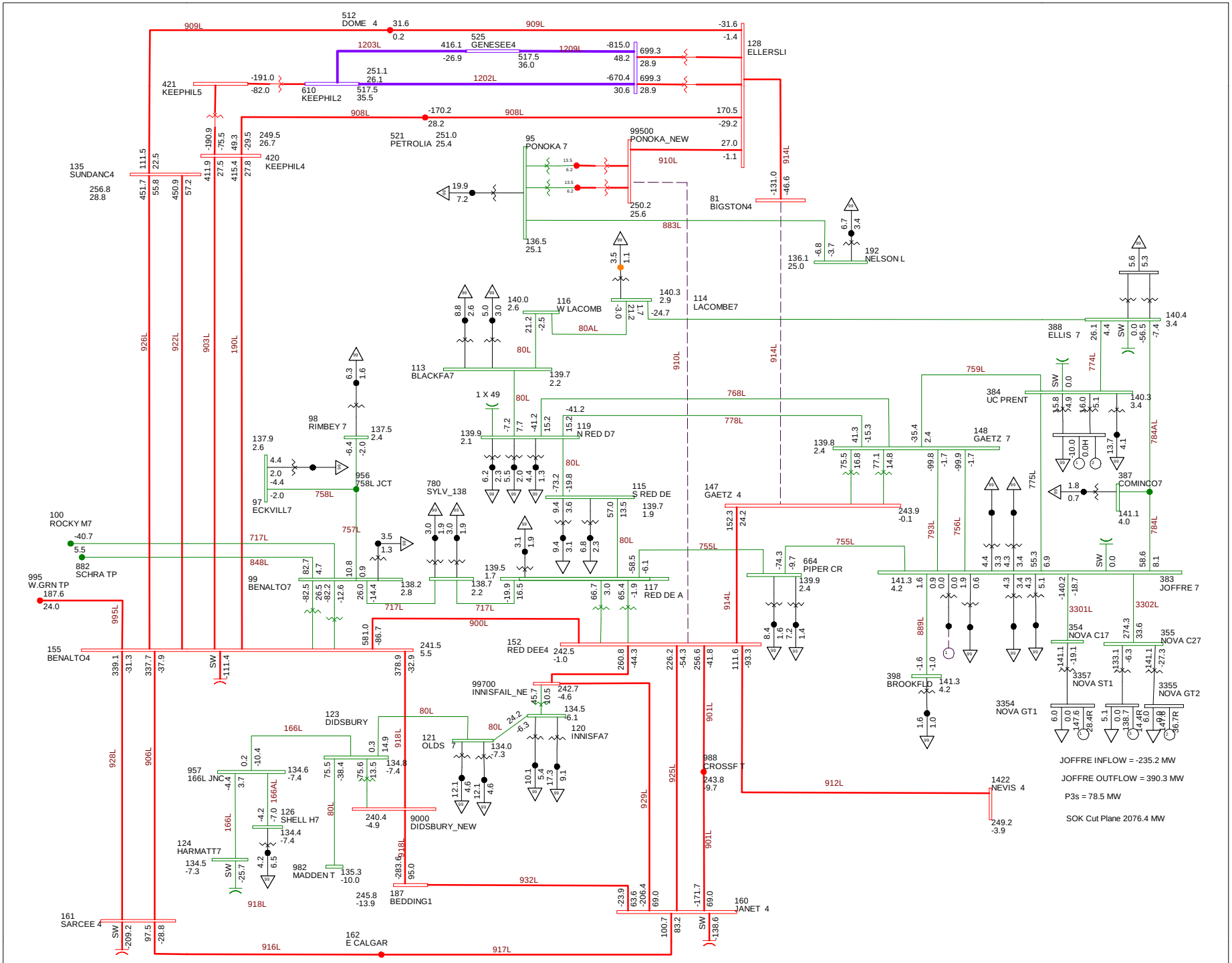
RED DEER REGION STUDY

2012 S3_SOK_PK (2012 SUMMER PEAK CASE)

FIG 2012-ALT2-LOAD-SP-C5-8(HIGH SOK): 910L BIGSTONE 86S TO G
914L RED DEER 63S TO PONOKA 331S OUTAGE
WED, MAR 02 2011 8:25

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-481

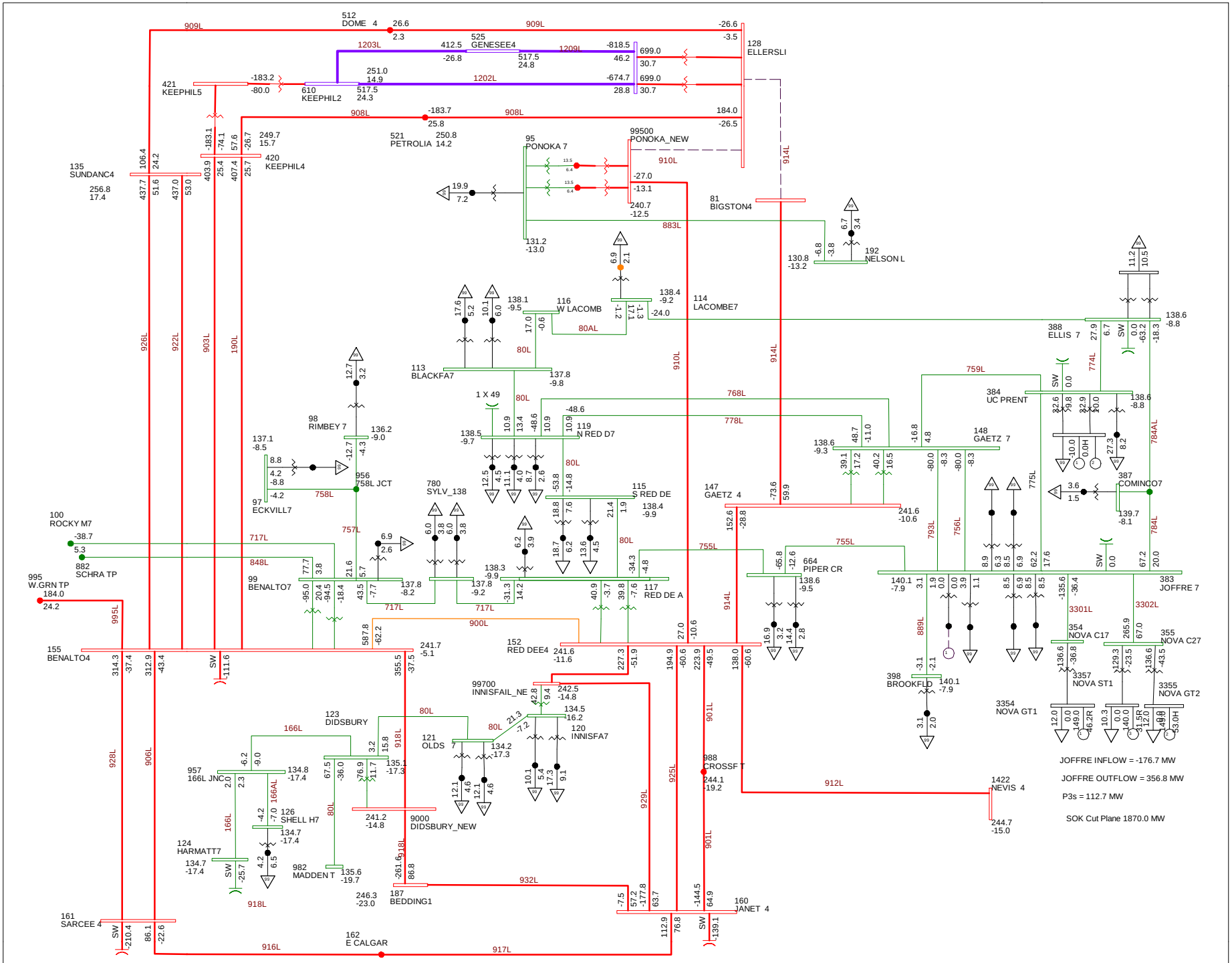


RED DEER REGION STUDY
2012 S3_SOK_PK (2012 SUMMER PEAK CASE)

FIG 2012-ALT2-LOAD-SP-C5-8-1(HIGH SOK): 910L BIGSTONE 86S TO 914L RED DEER 63S TO PONOKA 331S OUTAGE WITH RAS
WED, MAR 02 2011 8:26

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-482

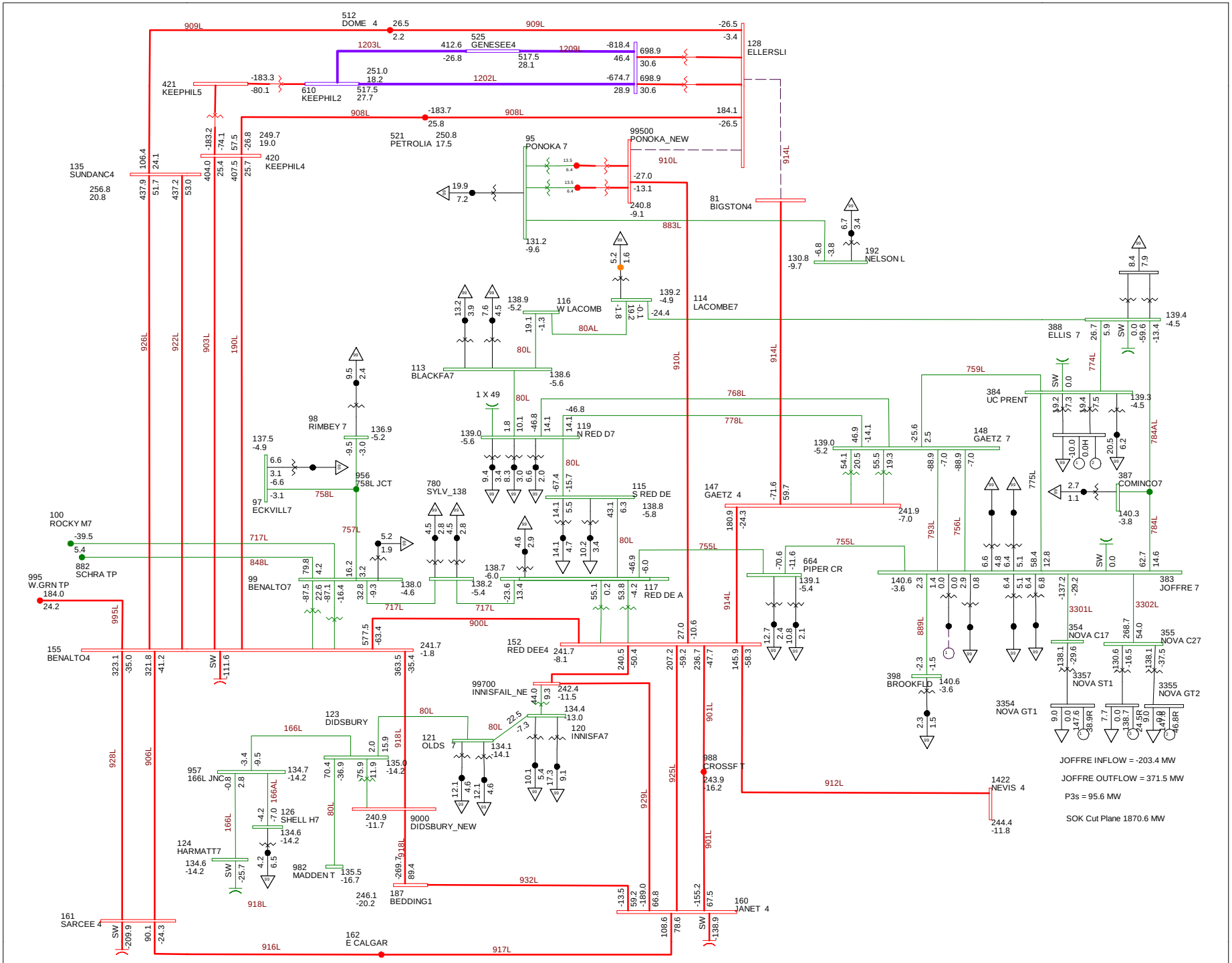


RED DEER REGION STUDY
2012 S3_SOK_PK (2012 SUMMER PEAK CASE)

FIG 2012-ALT2-LOAD-SP-C5-9(HIGH SOK): 910L ELLERSLIE 89S TO 914L ELLERSLIE 89S TO BIGSTONE 86S OUTAGE
WED, MAR 02 2011 8:26

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-483

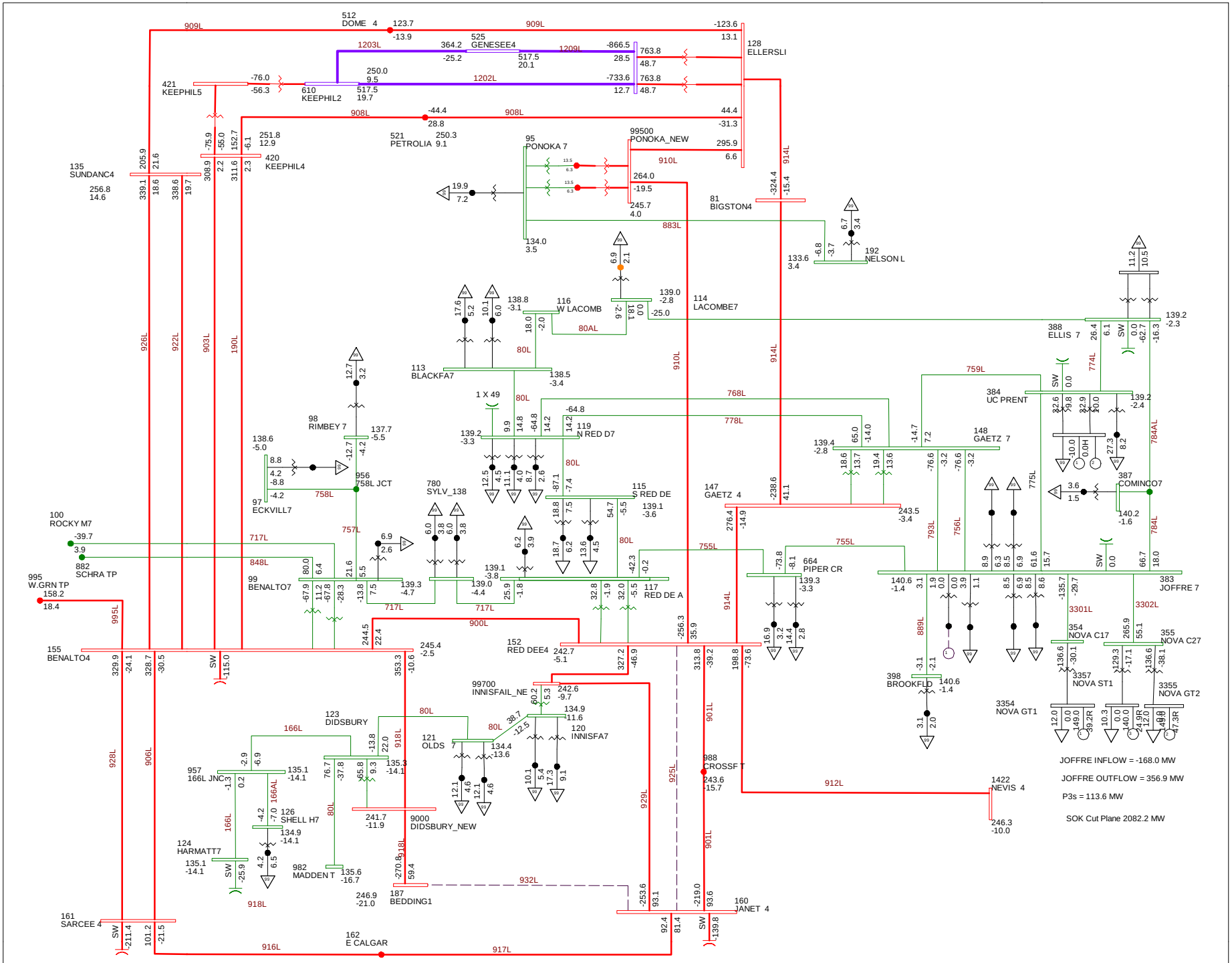


RED DEER REGION STUDY
2012 S3_SOK_PK (2012 SUMMER PEAK CASE)

FIG 2012-ALT2-LOAD-SP-C5-9-1(HIGH SOK): 910L ELLERSLIE 89S T
914L ELLERSLIE 89S TO BIGSTONE 86S OUTAGE WITH RAS
WED, MAR 02 2011 8:26

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-484

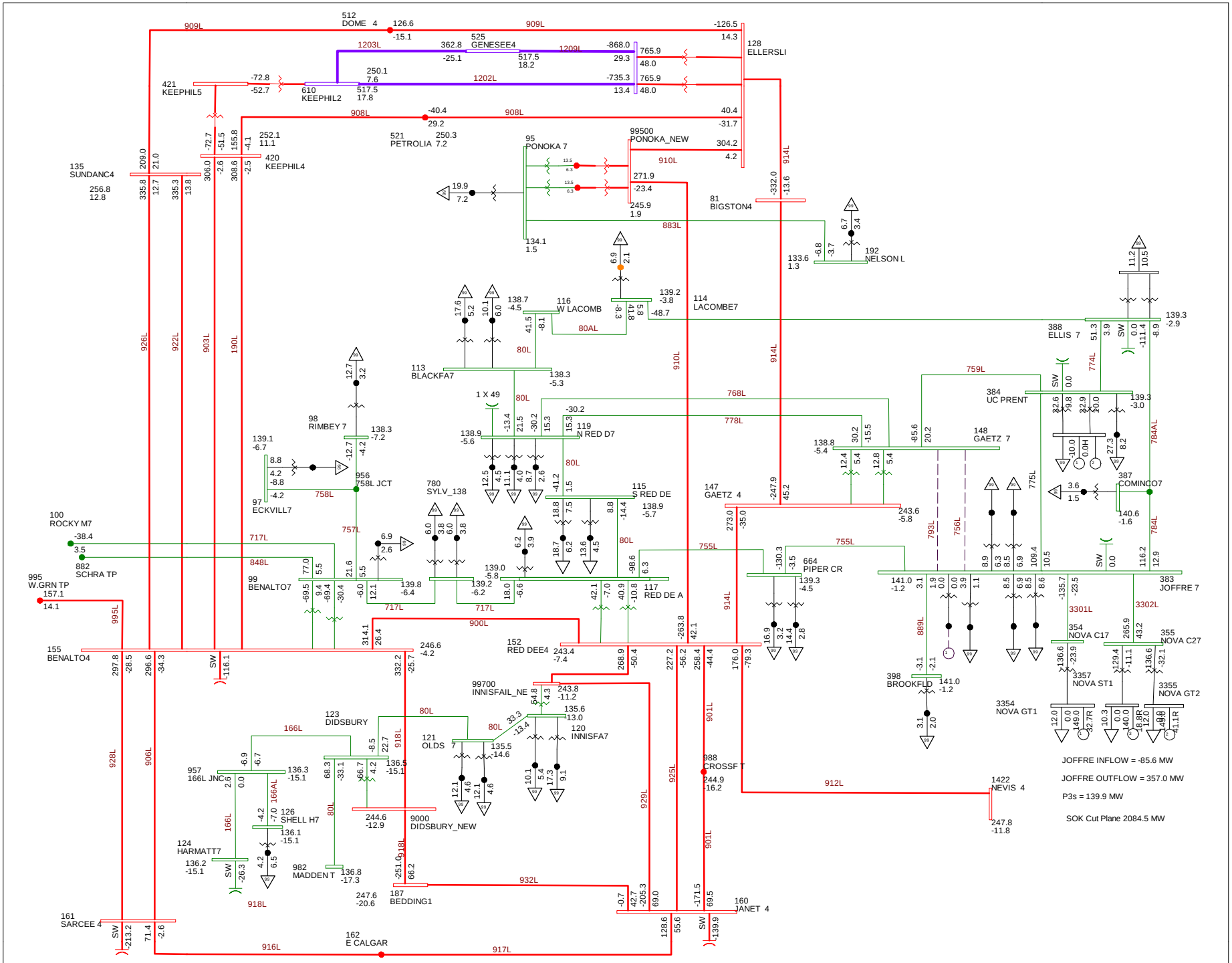


RED DEER REGION STUDY
2012 S3_SOK_PK (2012 SUMMER PEAK CASE)

FIG 2012-ALT2-LOAD-SP-C5-10(HIGH SOK): 918L BEDDING 162S TO 929L RED DEER 63S TO JANET 74S OUTAGE
WED, MAR 02 2011 8:26

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-485

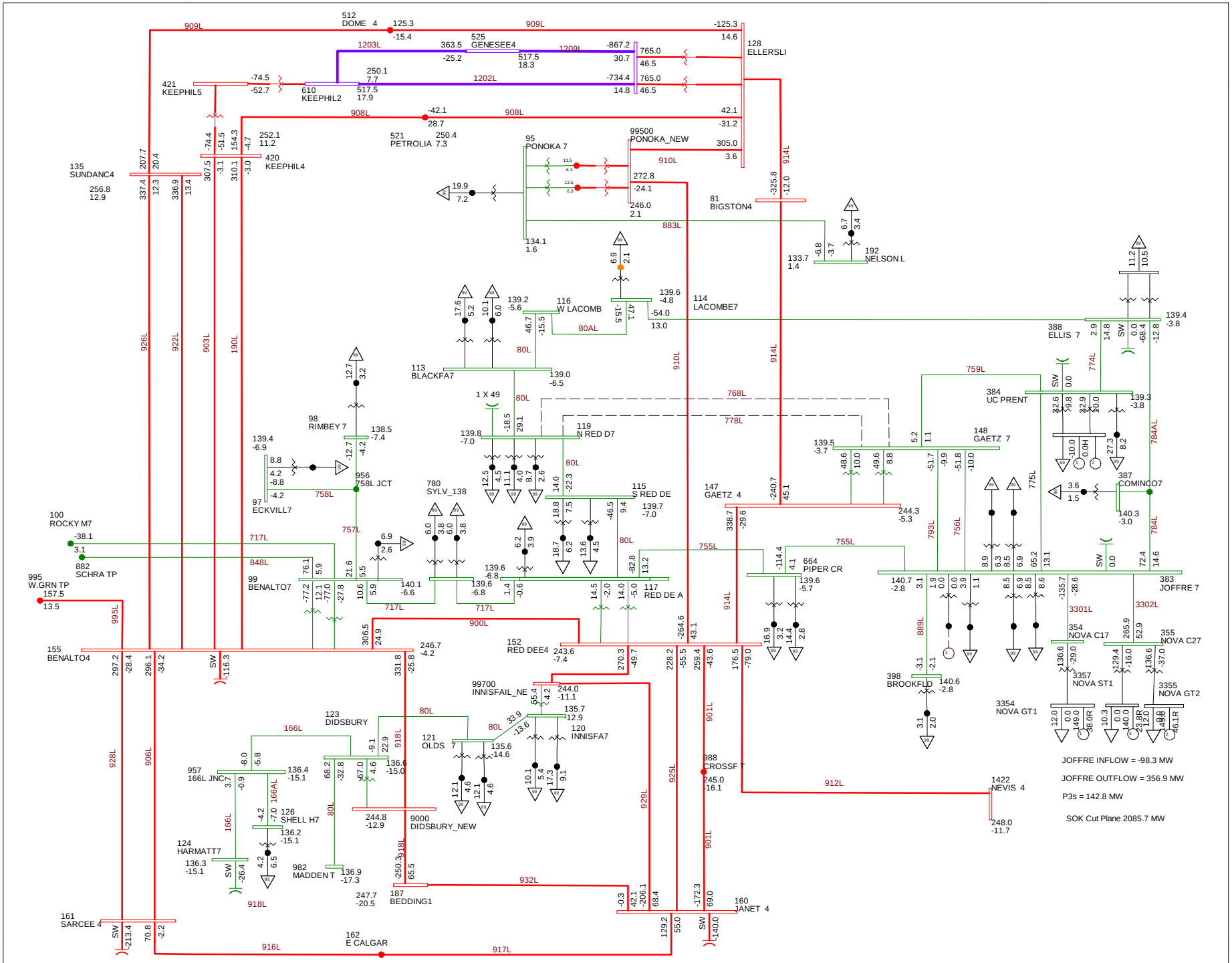


RED DEER REGION STUDY
2012 S3_SOK_PK (2012 SUMMER PEAK CASE)

FIG 2012-ALT2-LOAD-SP-C5-11(HIGH SOK): 756L/793L
GAETZ 87S TO JOFFRE 535S OUTAGE
WED, MAR 02 2011 8:26

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-486



RED DEER REGION STUDY
2012 S3_SOK_PK (2012 SUMMER PEAK CASE)

FIG 2012-ALT2-LOAD-SP-C5-12(HIGH SOK): 768L/778L
N. RED DEER 217S TO GAETZ 87S OUTAGE
WED, MAR 02 2011 8:26

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-487

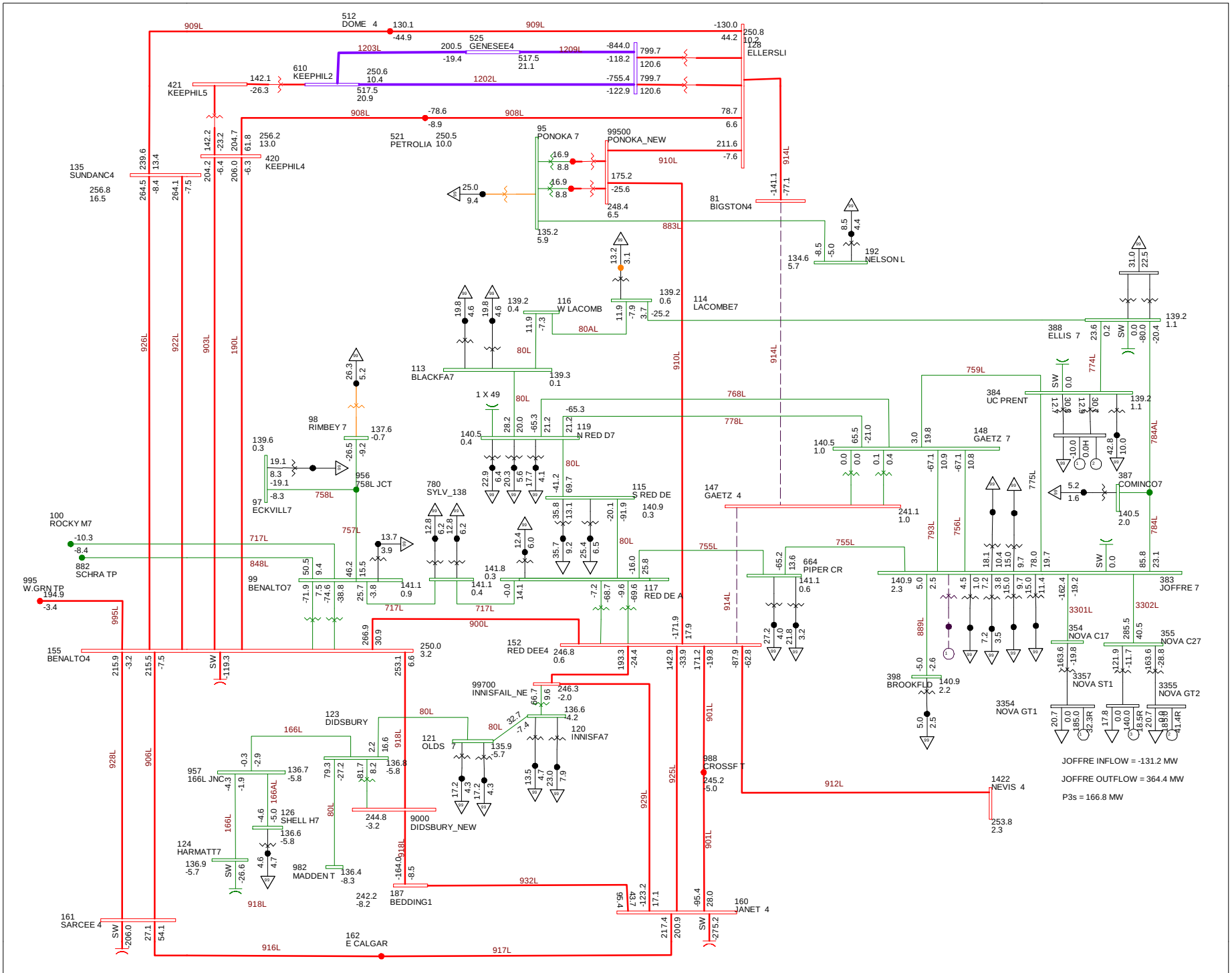
Table D-2012-13: Summary of 2012 Load Adequacy Power Flow Analysis - Alternative 2 Category C7

Figure No.	Contingency	Overloaded Element	Percent Overload	Other System Performance Concerns	SPS
Winter Peak					
Fig 2012-Alt2-Load-WP-C7-1	914L(Gaetz 87S to Red Deer 63S) 914L(Gaetz 87S to Bigstone 86S)	None	N/A	None	None
Fig 2012-Alt2-Load-WP-C7-2	793L(Gaetz 87S to Joffre 535S) 778L(Gaetz 87S to N.Red Deer 217S)	None	N/A	None	None
Fig 2012-Alt2-Load-WP-C7-3	778L(Gaetz 87S to N. Red Deer 217S) 759L(Gaetz 87S to Prentiss 276S)	None	N/A	None	None
Fig 2012-Alt2-Load-WP-C7-4	80L(S. Red Deer 194S to N. Red Deer 217S) 80L(S. Red Deer 194S to Red Deer 63S)	None	N/A	None	None
Fig 2012-Alt2-Load-WP-C7-5	80L(Blackfalds 198S to W. Lacombe 958S) 80L(Blackfalds 198S to N. Red Deer 217S)	None	N/A	None	None
Fig 2012-Alt2-Load-WP-C7-6	80L(N. Red Deer 217S to Gaetz 87S) 80L(Blackfalds 198S to N. Red Deer 217S)	None	N/A	None	None
Fig 2012-Alt2-Load-WP-C7-7	755L(Piper Cr. 274S to Red Deer 63S) 755L(Piper Cr. 274S to Joffre 535S)	None	N/A	None	None
Fig 2012-Alt2-Load-WP-C7-8	New Line(N.E.Lacombe 212S to Ellis 332S) 784L(Ellis 332S to Haynes 482S to Joffre 535S)	None	N/A	None	None
Fig 2012-Alt2-Load-WP-C7-9	717L(Benalto 17S to Sylvan Lake 580S) 717L(Red Deer 63S to Sylvan Lake 580S)	None	N/A	None	None
Fig 2012-Alt2-Load-WP-C7-10	900L(Red Deer 63S to Benalto 17S) 925L(Red Deer 63S to Janet 74S)	None	N/A	None	None
Fig 2012-Alt2-Load-WP-C7-11	901L(Red Deer 63S to Crossfield 64S) 910L(Red Deer 63S to Ponoka 331S)	None	N/A	None	None
Fig 2012-Alt2-Load-WP-C7-12	914L(Red Deer 63S to Gaetz 87S) 912L(Red Deer 63S to Nevis 766S)	None	N/A	None	None
Fig 2012-Alt2-Load-WP-C7-13	755L(Red Deer 63S to Piper Cr. 274S) 717L(Red Deer 63S to Sylvan Lake 580S)	None	N/A	None	None
Fig 2012-Alt2-Load-WP-C7-14	903L(Benalto 17S to Keephills 320P) 928L(Benalto 17S to Sarcee 42S)	None	N/A	None	None
Fig 2012-Alt2-Load-WP-C7-15	190L(Benalto 17S to Keephills 320P) 918L(Benalto 17S to Didsbury 152S)	None	N/A	None	None

Figure No.	Contingency	Overloaded Element	Percent Overload	Other System Performance Concerns	SPS
Fig 2012-Alt2-Load-WP-C7-16	922L(Benalto 17S to Sundance 310P) 906L(Benalto 17S to Sarcee 42S)	None	N/A	None	None
Fig 2012-Alt2-Load-WP-C7-17	757L(Benalto 17S to Eckville 534S to Rimbey 297S) 717L(Benalto 17S to Sylvan Lake 580S) 717L (Benalto 17S to Rocky 262S)	None	N/A	None	None
Fig 2012-Alt2-Load-WP-C7-18	784L(Joffre 535S to Haynes 482S to Ellis 332S) 775L(Joffre 535S to Prentiss 276S)	None	N/A	None	None
Fig 2012-Alt2-Load-WP-C7-19	756L(Joffre 535S to Gaetz 87S) 1330L (Joffre 535S to Nova 355S	None	N/A	None	None
Fig 2012-Alt2-Load-WP-C7-20	755L(Joffre 535S to Piper Creek 247S) 1330L(Joffre 535S to Nova 355S)	None	N/A	None	None
Fig 2012-Alt2-Load-WP-C7-21	80AL(N.E.Lacombe 212S to W. Lacombe 958S) New line (N.E.Lacombe 212S to Ellis 332S)	None	N/A	None	None
Fig 2012-Alt2-Load-WP-C7-22	775L(Prentiss 276S to Joffre 535S) 759L(Prentiss 276S to Gaetz 87S)	None	N/A	None	None
Fig 2012-Alt2-Load-WP-C7-23	774L(Prentiss 276S to Ellis 332S) 759L(Prentiss 276S to Gaetz 87S)	None	N/A	None	None
Fig 2012-Alt2-Load-WP-C7-24	80L(Olds 55S to Innisfail 214S) 80L(Olds 55S to Didsbury 152S)	None	N/A	None	None
Fig 2012-Alt2-Load-WP-C7-25	80L(Olds 55S to Didsbury 152S) 80L(Didsbury 152S to Madden 373S) 166L(Didsbury 152S to Harmattan 256S)	None	N/A	None	None
Fig 2012-Alt2-Load-WP-C7-26	166L(Harmattan 256S to Shell Harmattan 238S to Didsbury 152S) 166L(Harmattan 256S to Shell Eagle Cr. 412S to Sundre 575S)	None	N/A	None	None
Fig 2012-Alt2-Load-WP-C7-27	929L(Red Deer 63S to Innisfail 214S) 929L(Innisfail 214S to Janet 74S) Outage	None	N/A	None	None
Summer Light					
Fig 2012-Alt2-Load-SL-C7-1	914L(Gaetz 87S to Red Deer 63S) 914L(Gaetz 87S to Bigstone 86S)	None	N/A	None	None
Fig 2012-Alt2-Load-SL-C7-2	793L(Gaetz 87S to Joffre 535S) 778L(Gaetz 87S to N.Red Deer 217S)	None	N/A	None	None
Fig 2012-Alt2-Load-SL-C7-3	778L(Gaetz 87S to N. Red Deer 217S) 759L(Gaetz 87S to Prentiss 276S)	None	N/A	None	None
Fig 2012-Alt2-Load-SL-C7-4	80L(S. Red Deer 194S to N. Red Deer 217S) 80L(S. Red Deer 194S to Red Deer 63S)	None	N/A	None	None

Figure No.	Contingency	Overloaded Element	Percent Overload	Other System Performance Concerns	SPS
Fig 2012-Alt2-Load-SL-C7-5	80L(Blackfalds 198S to W. Lacombe 958S) 80L(Blackfalds 198S to N. Red Deer 217S)	None	N/A	None	None
Fig 2012-Alt2-Load-SL-C7-6	80L(N. Red Deer 217S to Gaetz 87S) 80L(Blackfalds 198S to N. Red Deer 217S)	None	N/A	None	None
Fig 2012-Alt2-Load-SL-C7-7	755L(Piper Cr. 274S to Red Deer 63S) 755L(Piper Cr. 274S to Joffre 535S)	None	N/A	None	None
Fig 2012-Alt2-Load-SL-C7-8	New Line(N.E.Lacombe 212S to Ellis 332S) 784L(Ellis 332S to Haynes 482S to Joffre 535S)	None	N/A	None	None
Fig 2012-Alt2-Load-SL-C7-9	717L(Benalto 17S to Sylvan Lake 580S) 717L(Red Deer 63S to Sylvan Lake 580S)	None	N/A	None	None
Fig 2012-Alt2-Load-SL-C7-10	900L(Red Deer 63S to Benalto 17S) 925L(Red Deer 63S to Janet 74S)	None	N/A	None	None
Fig 2012-Alt2-Load-SL-C7-11	901L(Red Deer 63S to Crossfield 64S) 910L(Red Deer 63S to Ponoka 331S)	None	N/A	None	None
Fig 2012-Alt2-Load-SL-C7-12	914L(Red Deer 63S to Gaetz 87S) 912L(Red Deer 63S to Nevis 766S)	None	N/A	None	None
Fig 2012-Alt2-Load-SL-C7-13	755L(Red Deer 63S to Piper Cr. 274S) 717L(Red Deer 63S to Sylvan Lake 580S)	None	N/A	None	None
Fig 2012-Alt2-Load-SL-C7-14	903L(Benalto 17S to Keephills 320P) 928L(Benalto 17S to Sarcee 42S)	None	N/A	None	None
Fig 2012-Alt2-Load-SL-C7-15	190L(Benalto 17S to Keephills 320P) 918L(Benalto 17S to Didsbury 152S)	None	N/A	None	None
Fig 2012-Alt2-Load-SL-C7-16	922L(Benalto 17S to Sundance 310P) 906L(Benalto 17S to Sarcee 42S)	None	N/A	None	None
Fig 2012-Alt2-Load-SL-C7-17	757L(Benalto 17S to Eckville 534S to Rimbey 297S) 717L(Benalto 17S to Sylvan Lake 580S) 717L (Benalto 17S to Rocky 262S)	None	N/A	None	None
Fig 2012-Alt2-Load-SL-C7-18	784L(Joffre 535S to Haynes 482S to Ellis 332S) 775L(Joffre 535S to Prentiss 276S)	None	N/A	None	None
Fig 2012-Alt2-Load-SL-C7-19	756L(Joffre 535S to Gaetz 87S) 1330L (Joffre 535S to Nova 355S	None	N/A	None	None
Fig 2012-Alt2-Load-SL-C7-20	755L(Joffre 535S to Piper Creek 247S) 1330L(Joffre 535S to Nova 355S)	None	N/A	None	None

Figure No.	Contingency	Overloaded Element	Percent Overload	Other System Performance Concerns	SPS
Fig 2012-Alt2-Load-SL-C7-21	80AL(N.E.Lacombe 212S to W. Lacombe 958S) New line (N.E.Lacombe 212S to Ellis 332S)	None	N/A	None	None
Fig 2012-Alt2-Load-SL-C7-22	775L(Prentiss 276S to Joffre 535S) 759L(Prentiss 276S to Gaetz 87S)	None	N/A	None	None
Fig 2012-Alt2-Load-SL-C7-23	774L(Prentiss 276S to Ellis 332S) 759L(Prentiss 276S to Gaetz 87S)	None	N/A	None	None
Fig 2012-Alt2-Load-SL-C7-24	80L(Olds 55S to Innisfail 214S) 80L(Olds 55S to Didsbury 152S)	None	N/A	None	None
Fig 2012-Alt2-Load-SL-C7-25	80L(Olds 55S to Didsbury 152S) 80L(Didsbury 152S to Madden 373S) 166L(Didsbury 152S to Harmattan 256S)	None	N/A	None	None
Fig 2012-Alt2-Load-SL-C7-26	166L(Harmattan 256S to Shell Harmattan 238S to Didsbury 152S) 166L(Harmattan 256S to Shell Eagle Cr. 412S to Sundre 575S)	None	N/A	None	None
Fig 2012-Alt2-Load-SL-C7-27	929L(Red Deer 63S to Innisfail 214S) 929L(Innisfail 214S to Janet 74S) Outage	None	N/A	None	None



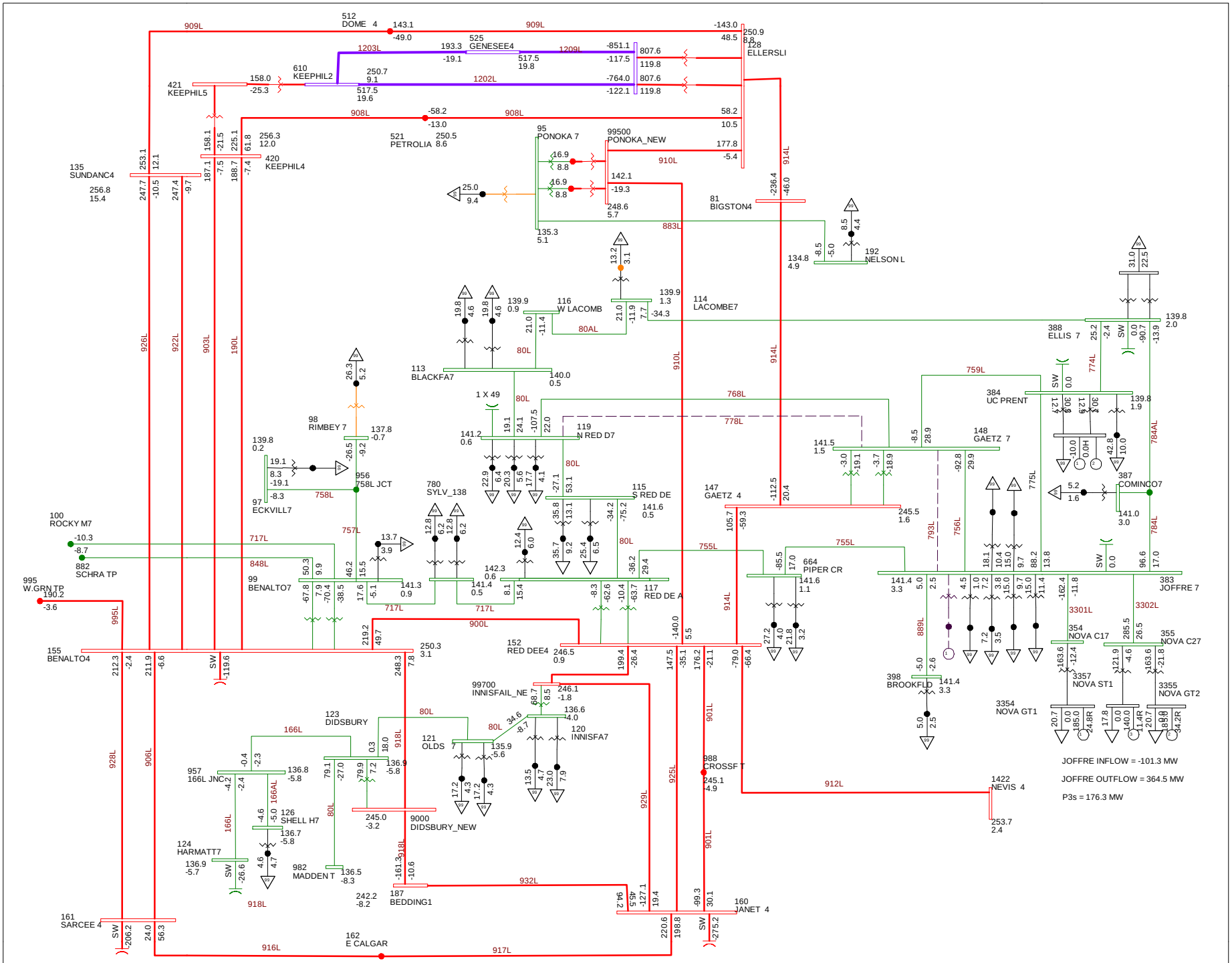
RED DEER REGION STUDY

2012 WINTER PEAK BASE CASE REVISION 6.5

FIG 2012-ALT2-LOAD-WP-C7-1: 914L(GAETZ 87S TO RED DEER 63S)
914L(GAETZ 87S TO BIGSTONE 86S) OUTAGE
WED, MAR 02 2011 9:11

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-492



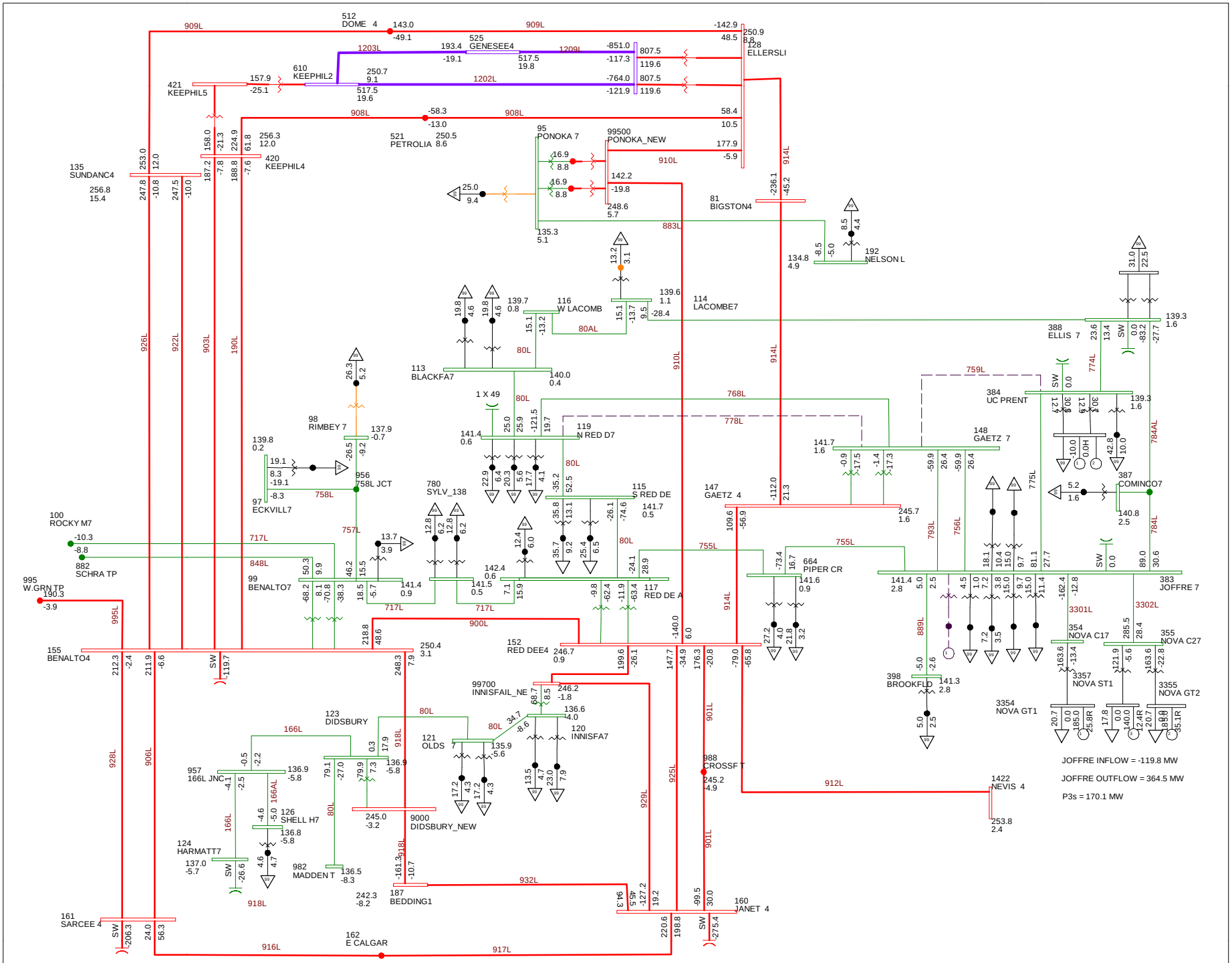
RED DEER REGION STUDY

2012 WINTER PEAK BASE CASE REVISION 6.5

FIG 2012-ALT2-LOAD-WP-C7-2: 793L(GAETZ 87S TO JOFFRE 535S) & 778L(GAETZ 87S TO N.RED DEER 217S) OUTAGE
WED, MAR 02 2011 9:11

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-493



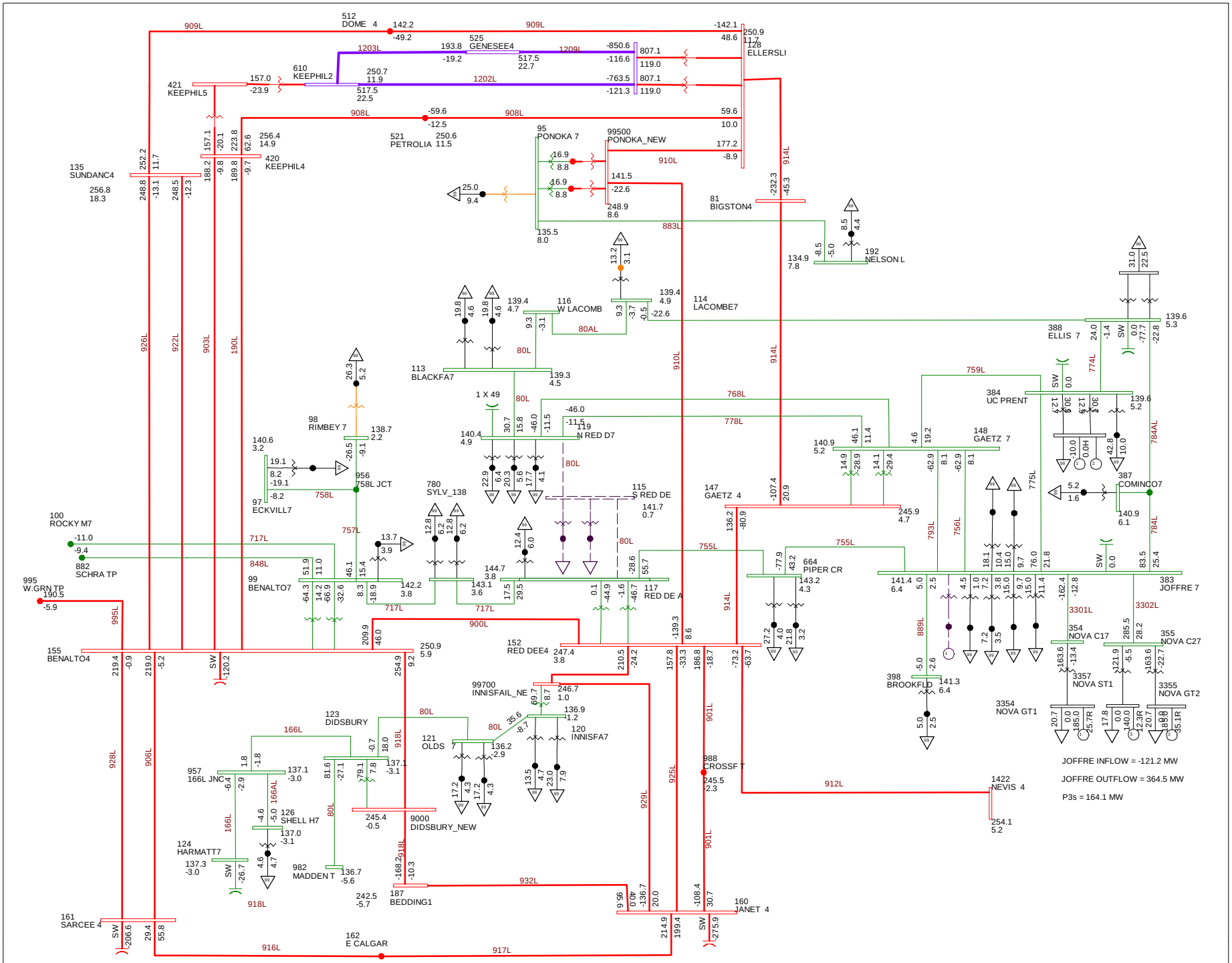
RED DEER REGION STUDY

2012 WINTER PEAK BASE CASE REVISION 6.5

FIG 2012-ALT2-LOAD-WP-C7-3: 778L(GAETZ 87S TO N. RED DEER 21 759L(GAETZ 87S TO PRENTISS 276S) OUTAGE
WED, MAR 02 2011 9:11

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-494



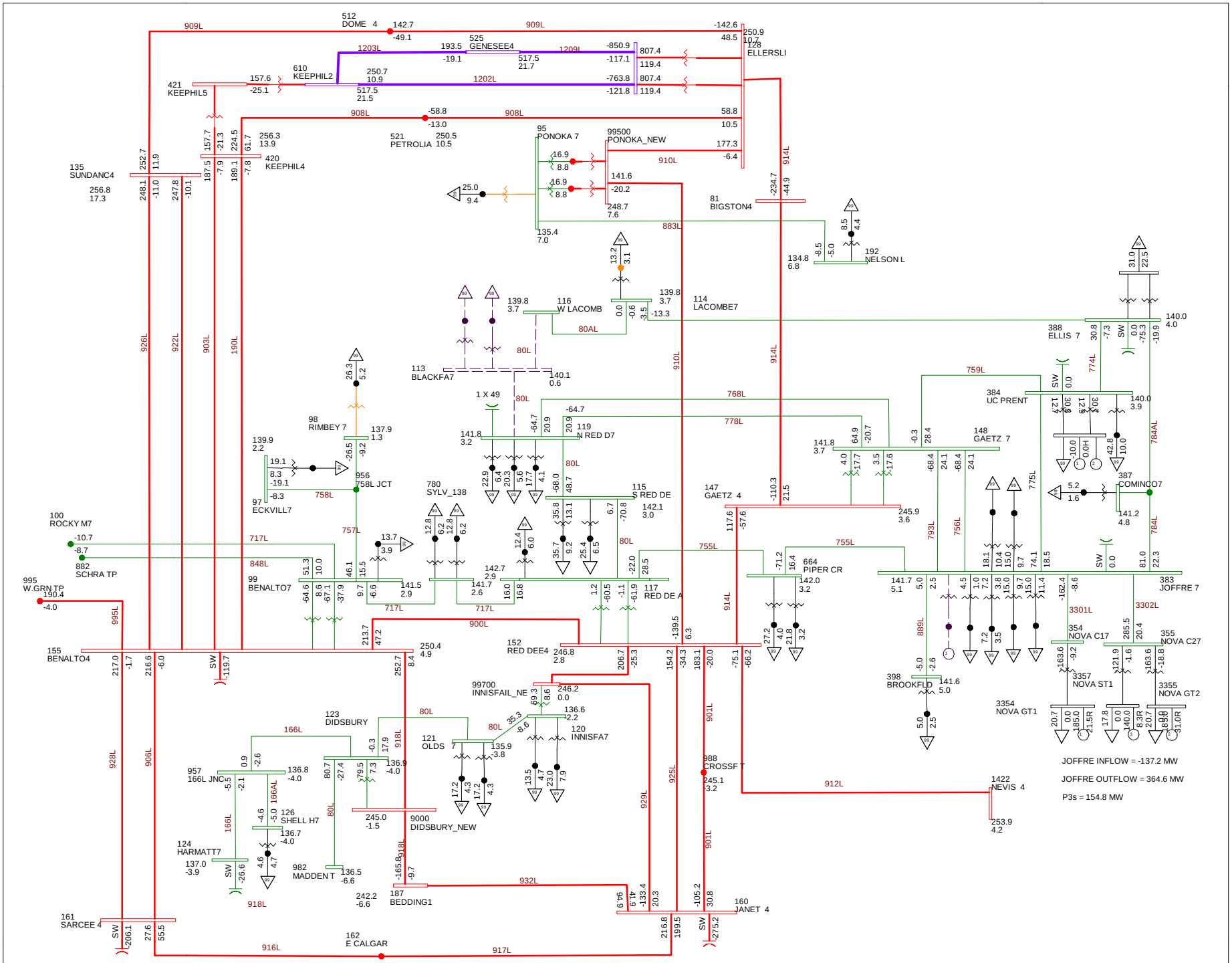
RED DEER REGION STUDY

2012 WINTER PEAK BASE CASE REVISION 6.5

FIG 2012-ALT2-LOAD-WP-C7-4: 80L(S. RED D. 194S TO N. RED D. 80L(S. RED D. 194S TO RED DEER 63S) OUTAGE
WED, MAR 02 2011 9:11

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-495



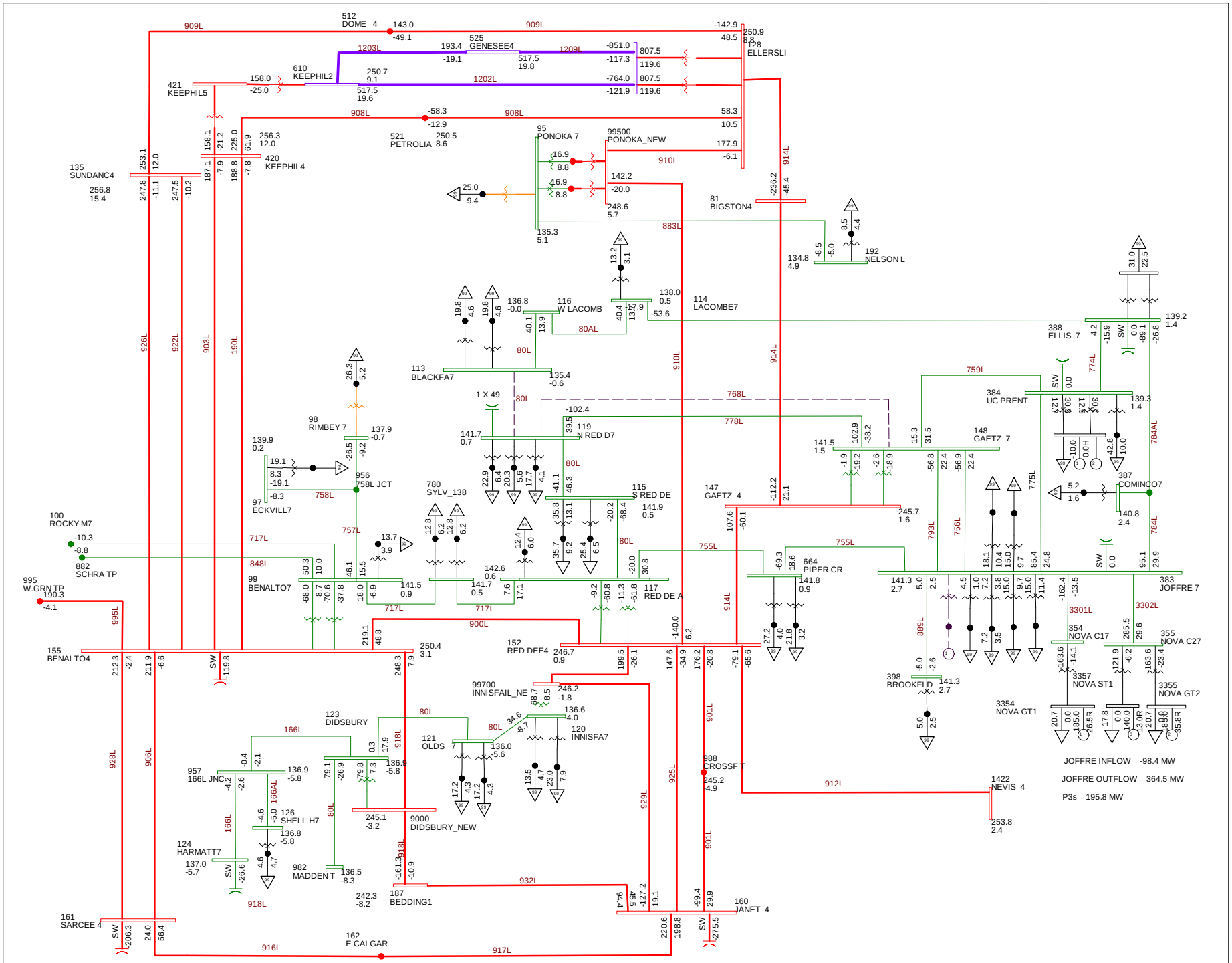
RED DEER REGION STUDY

2012 WINTER PEAK BASE CASE REVISION 6.5

FIG 2012-ALT2-LOAD-WP-C7-5: 80L(BLACKFALDS 198S TO W. LACOMB 80L(BLACKFALDS 198S TO N. RED D. 217S) OUTAGE
WED, MAR 02 2011 9:11

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-496



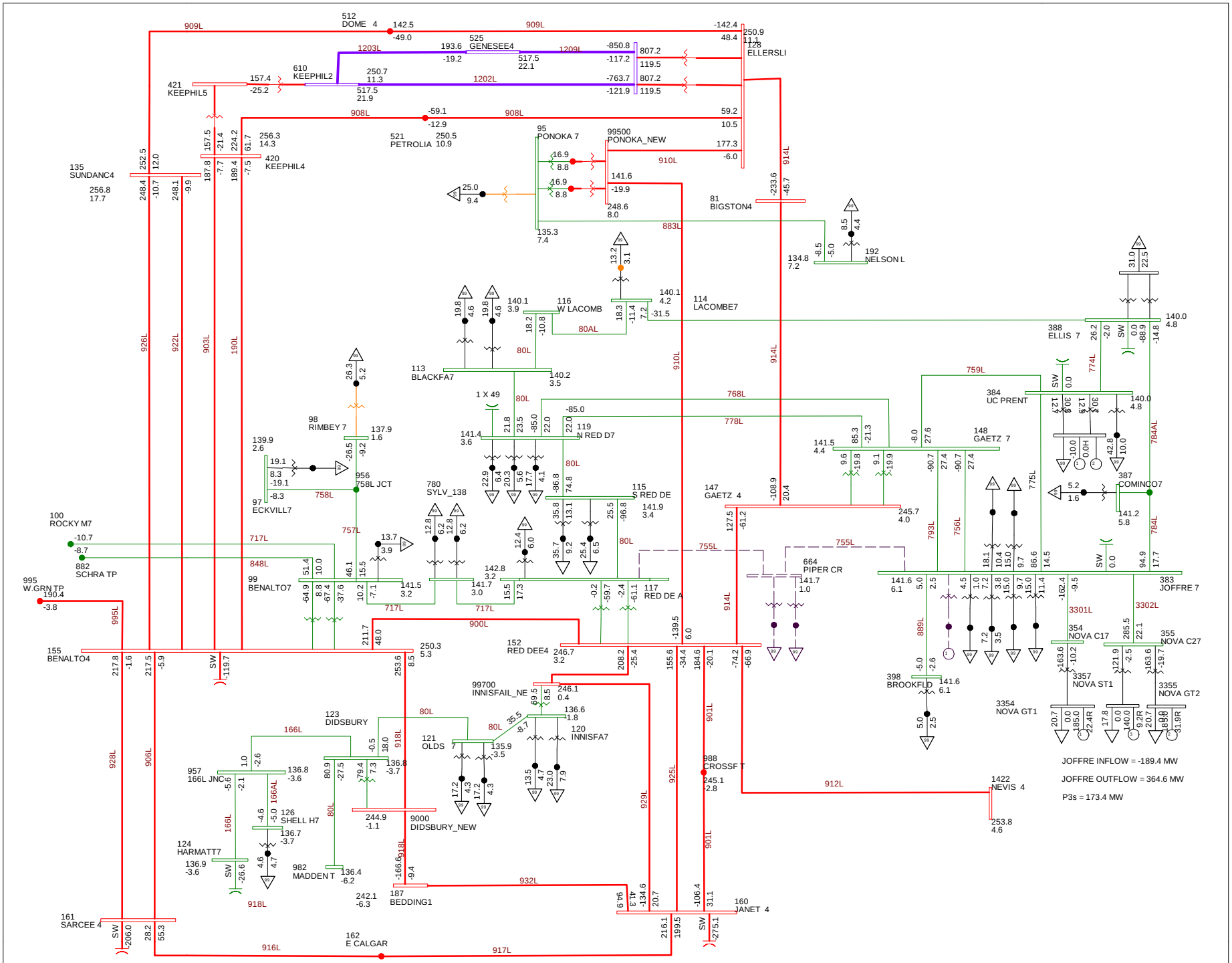
RED DEER REGION STUDY

2012 WINTER PEAK BASE CASE REVISION 6.5

FIG 2012-ALT2-LOAD-WP-C7-6: 80L(N. RED D. 217S TO GAETZ 87S)
80L(BLACKFALDS 198S TO N. RED D. 217S) OUTAGE
WED, MAR 02 2011 9:11

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-497



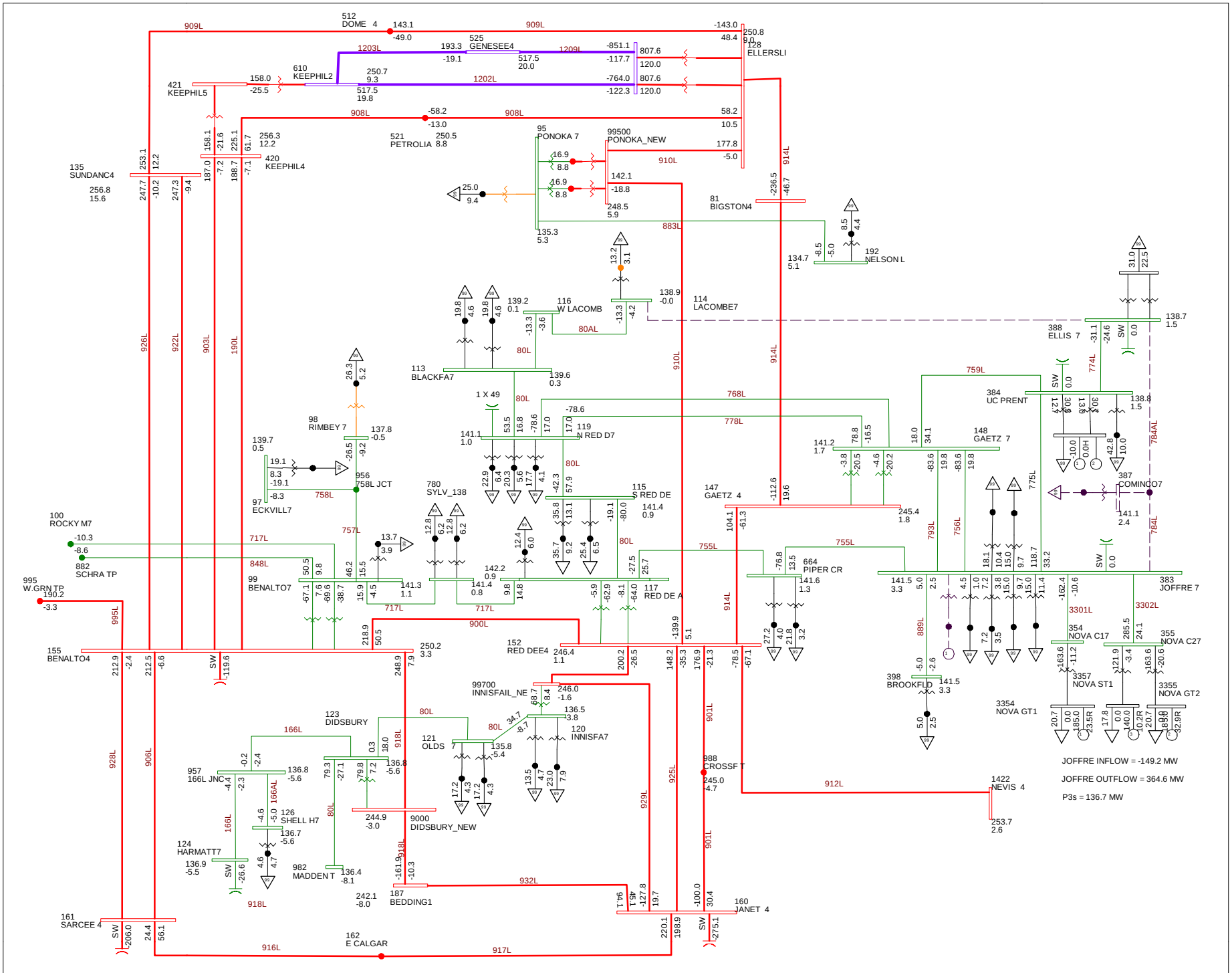
RED DEER REGION STUDY

2012 WINTER PEAK BASE CASE REVISION 6.5

FIG 2012-ALT2-LOAD-WP-C7-7: 755L(PIPER CR. 274S TO RED DEER 755L(PIPER CR. 274S TO JOFFRE 535S) OUTAGE
WED, MAR 02 2011 9:11

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-498



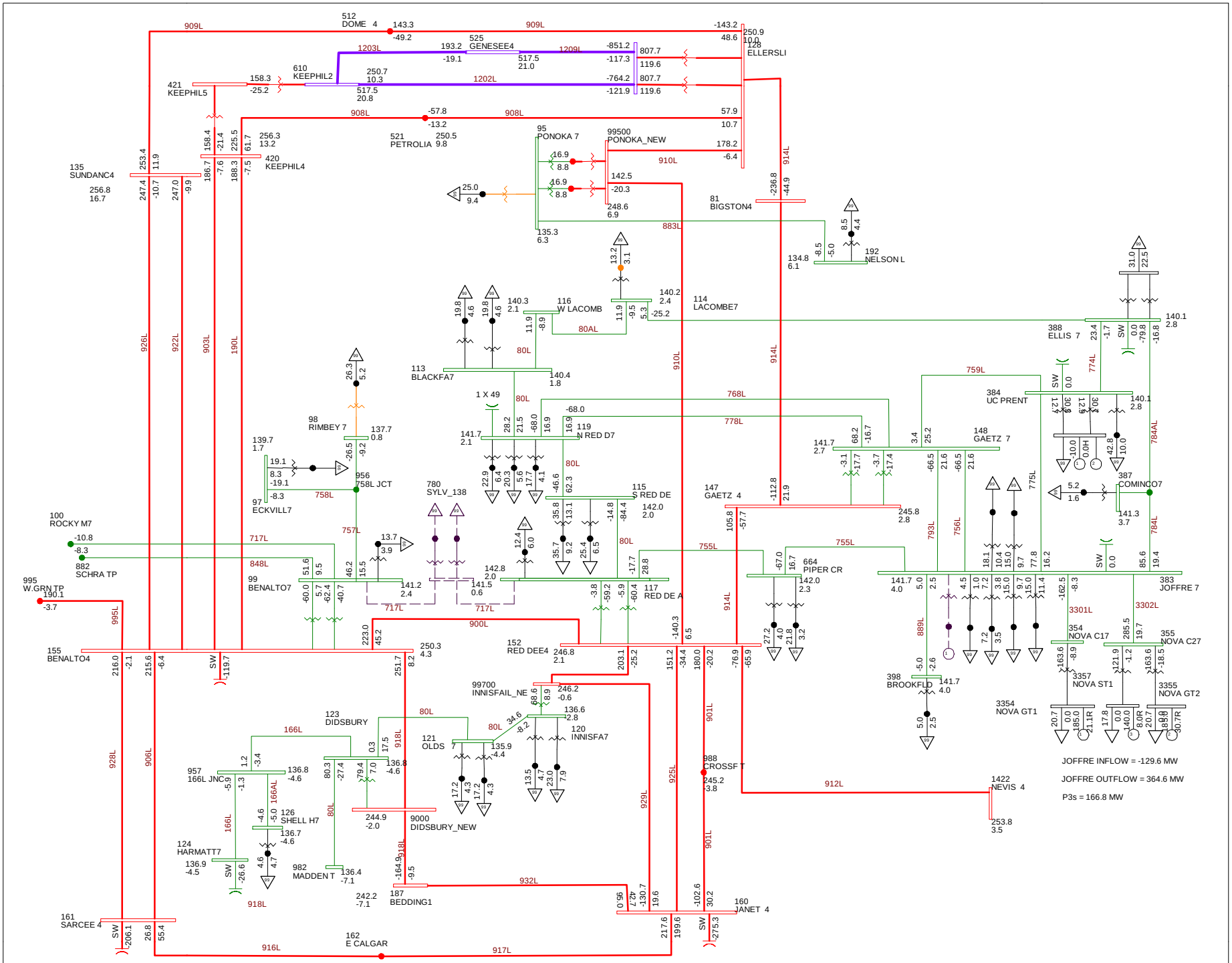
RED DEER REGION STUDY

2012 WINTER PEAK BASE CASE REVISION 6.5

FIG 2012-ALT2-LOAD-WP-C7-8: NEW LINE(N.E.LACOMBE 212S TO ELL 784L(ELLIS 332S TO HAYNES 482S TO JOFFRE 535S) OUTAGE
WED, MAR 02 2011 9:11

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-499



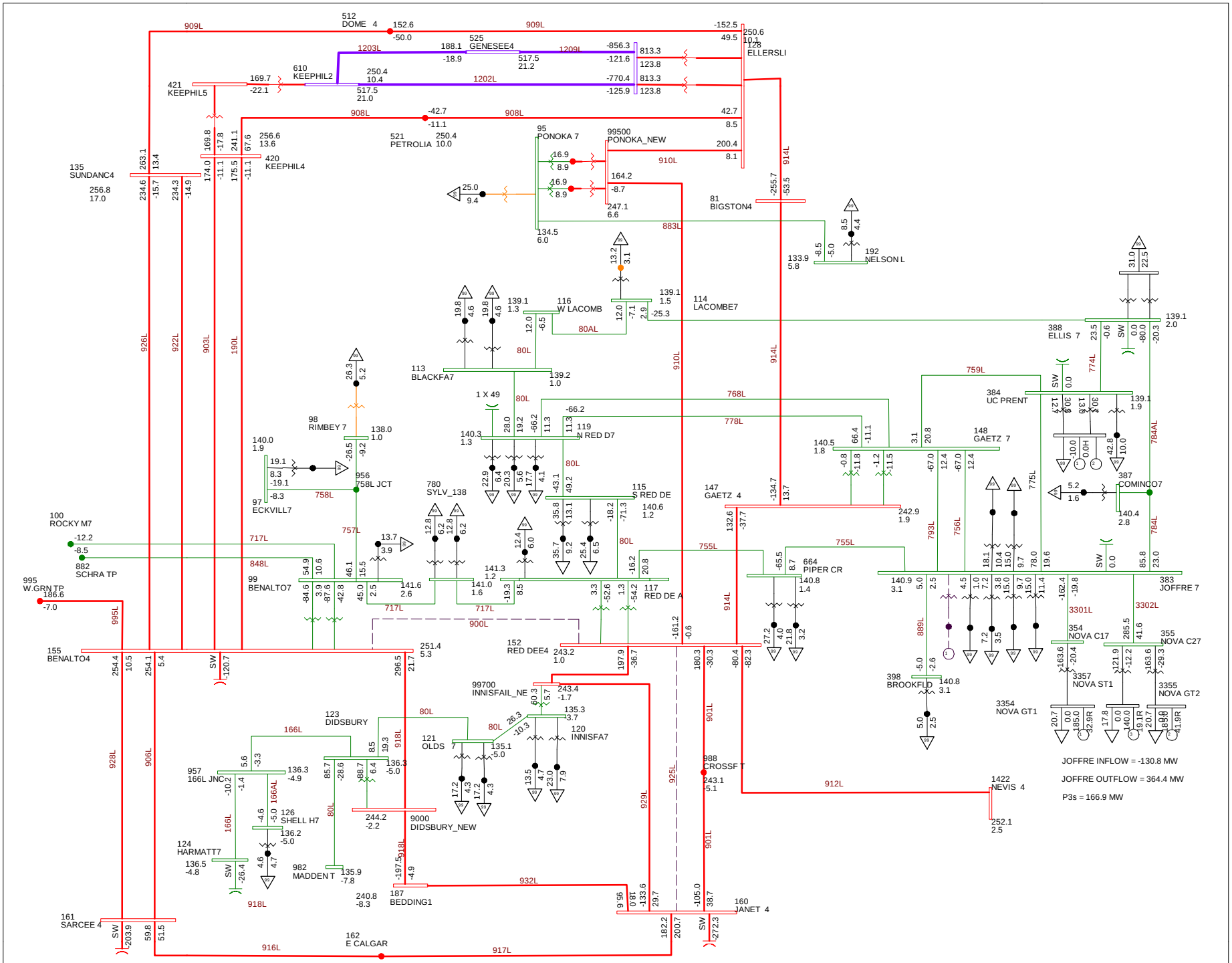
RED DEER REGION STUDY

2012 WINTER PEAK BASE CASE REVISION 6.5

FIG 2012-ALT2-LOAD-WP-C7-9: 717L(BENALTO 17S TO SYLVAN LAKE 717L(RED DEER 63S TO SYLVAN LAKE 580S) OUTAGE
WED, MAR 02 2011 9:11

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-500



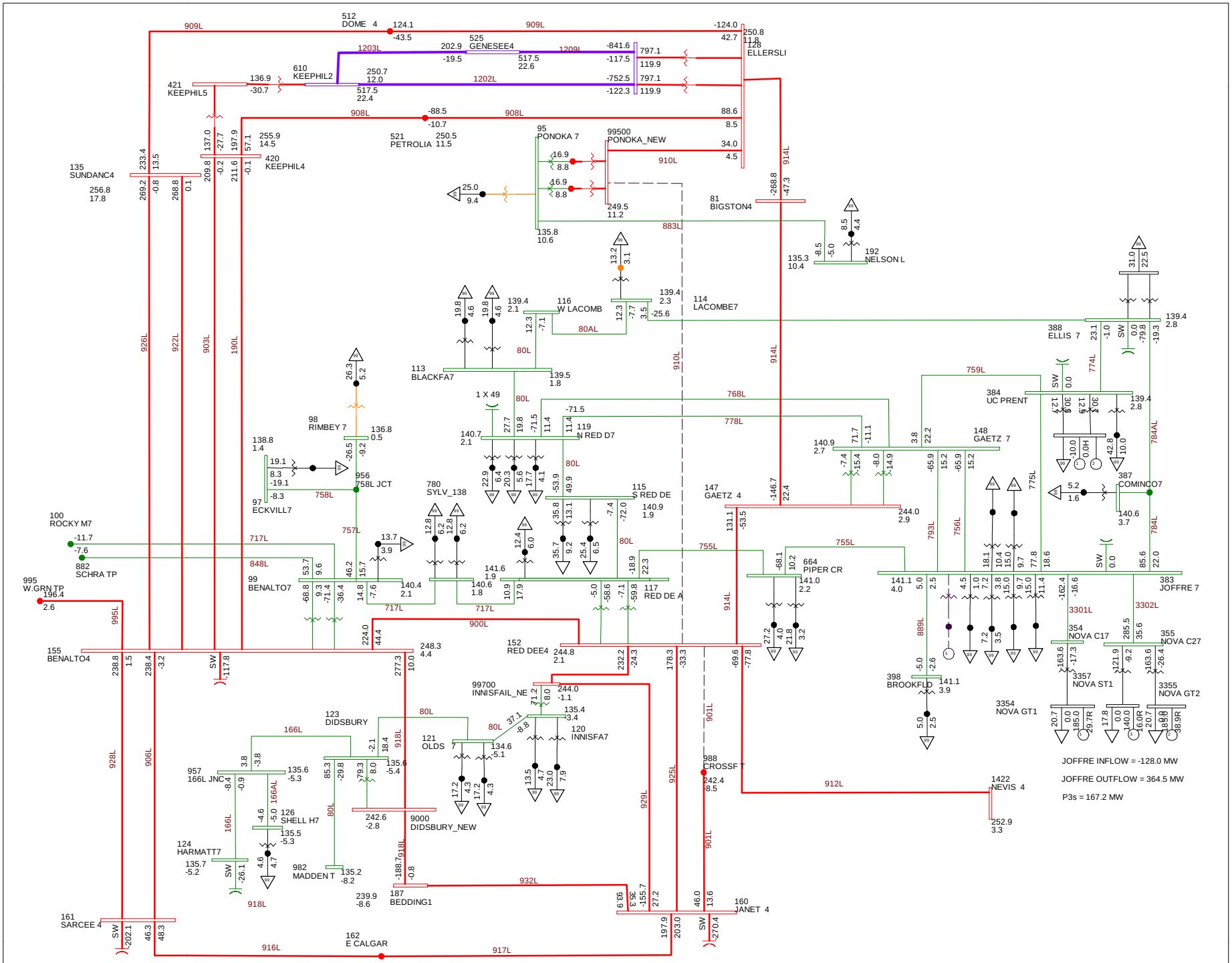
RED DEER REGION STUDY

2012 WINTER PEAK BASE CASE REVISION 6.5

FIG 2012-ALT2-LOAD-WP-C7-10: 900L(RED DEER 63S TO BENALTO 17 925L(RED DEER 63S TO JANET 74S) OUTAGE
WED, MAR 02 2011 9:11

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-501



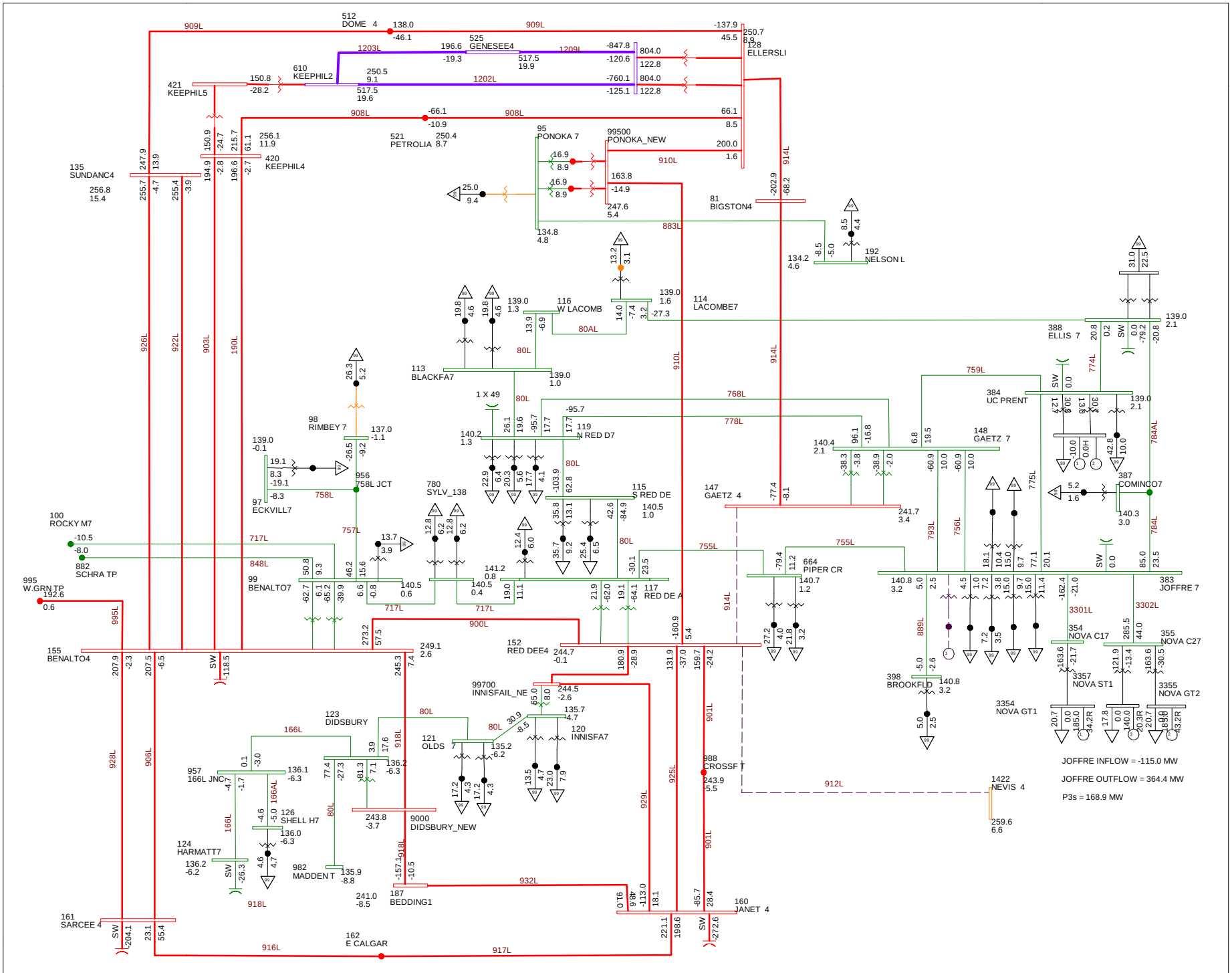
RED DEER REGION STUDY

2012 WINTER PEAK BASE CASE REVISION 6.5

FIG 2012-ALT2-LOAD-WP-C7-11: 901L(RED DEER 63S TO CROSSFIELD 910L(RED DEER 63S TO PONOKA 331S) OUTAGE
WED, MAR 02 2011 9:11

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-502



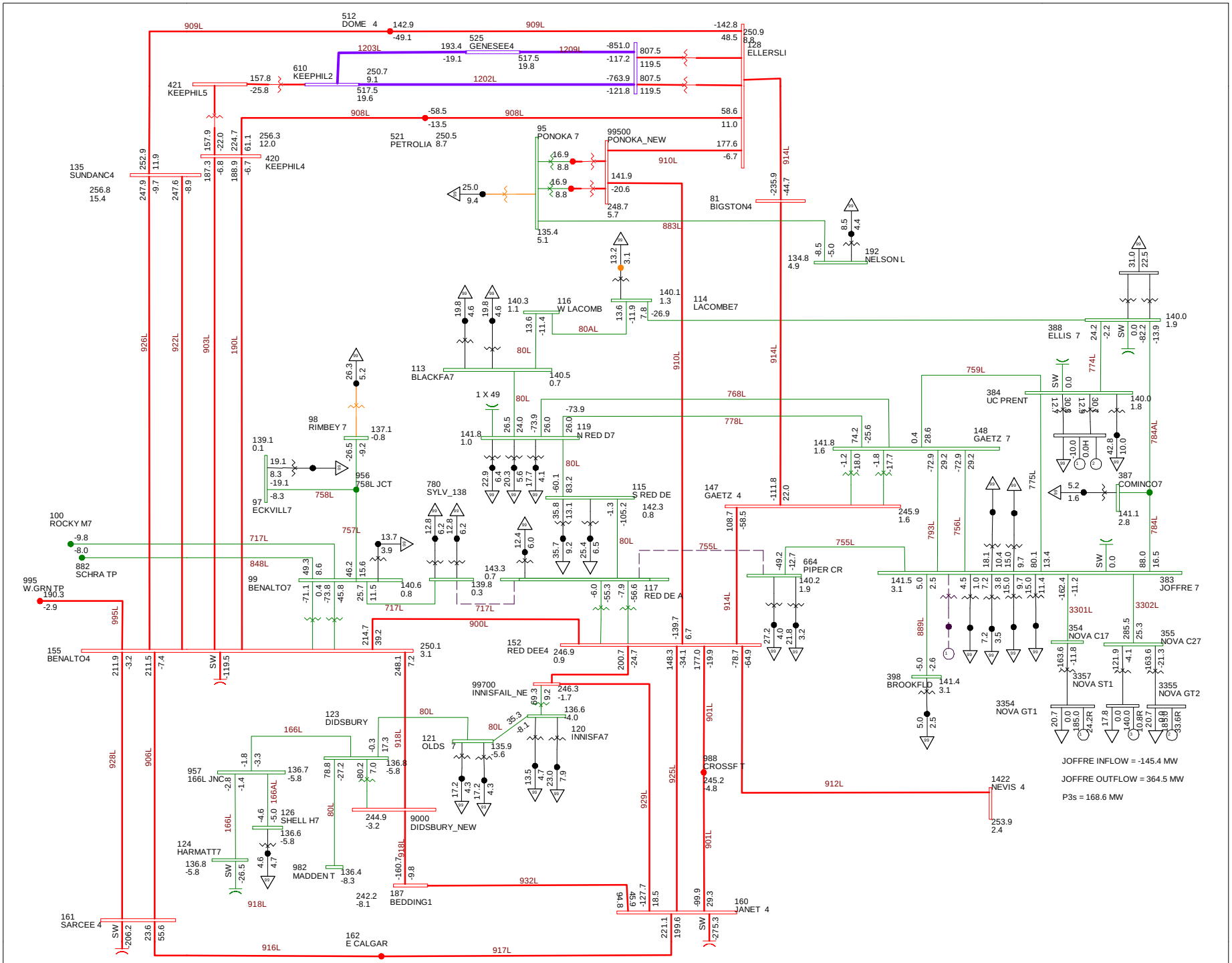
RED DEER REGION STUDY

2012 WINTER PEAK BASE CASE REVISION 6.5

FIG 2012-ALT2-LOAD-WP-C7-12: 914L(RED DEER 63S TO GAETZ 87S)
912L(RED DEER 63S TO NEVIS 766S) OUTAGE
WED, MAR 02 2011 9:11

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-503



RED DEER REGION STUDY

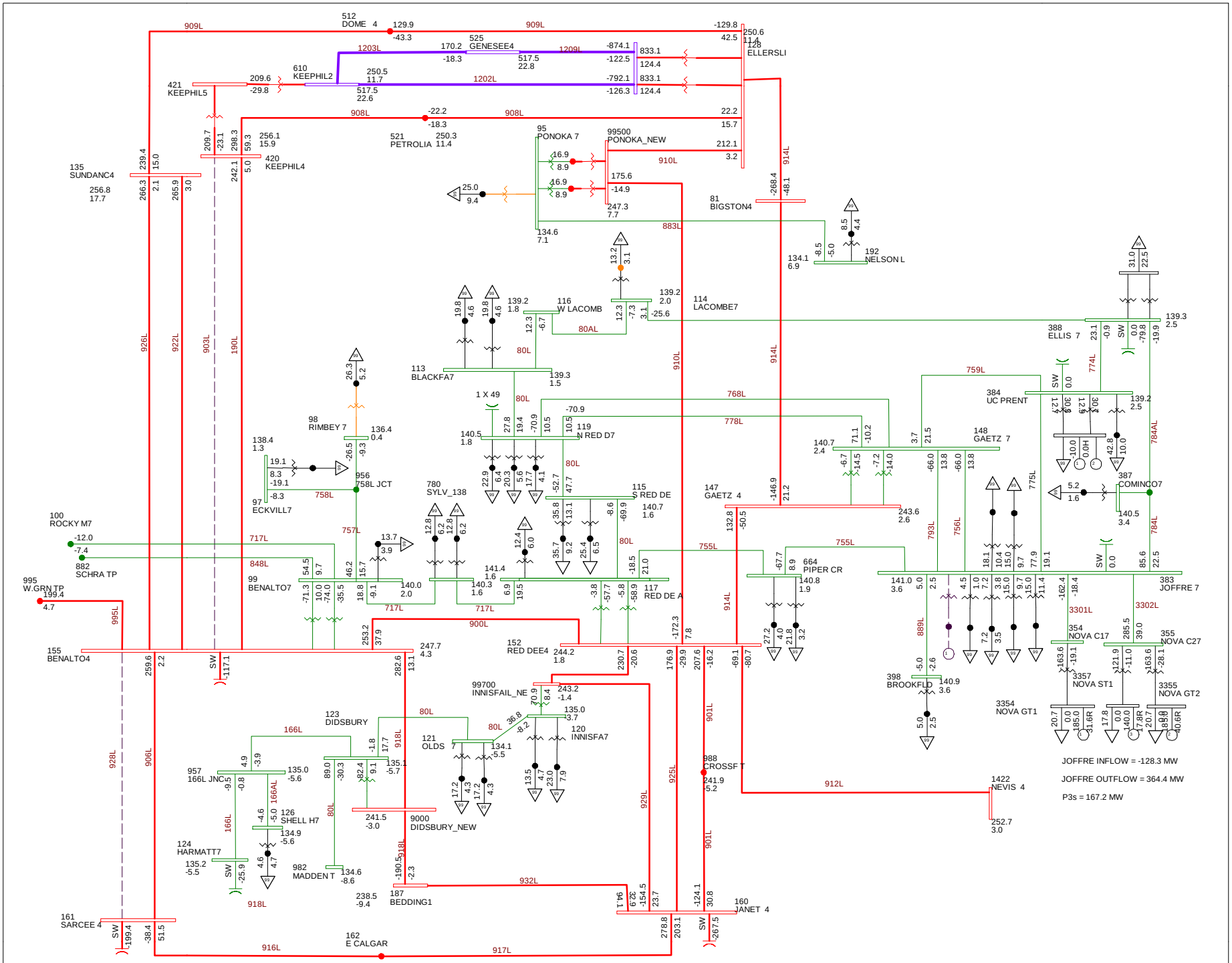
2012 WINTER PEAK BASE CASE REVISION 6.5

FIG 2012-ALT2-LOAD-WP-C7-13: 755L(RED DEER 63S TO PIPER CR. 717L(RED DEER 63S TO SYLVAN LAKE 580S) OUTAGE
WED, MAR 02 2011 9:11

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR

<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-504

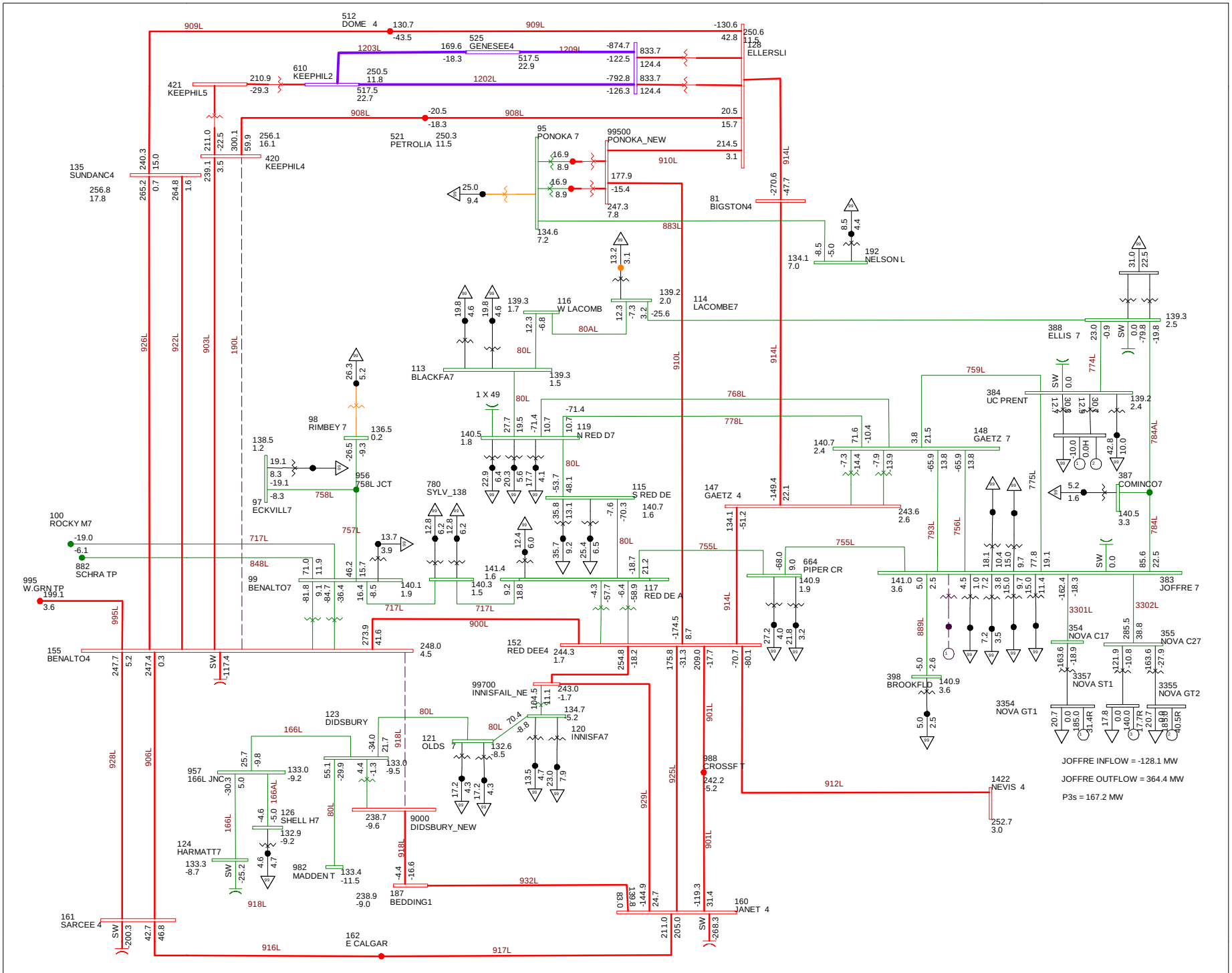


RED DEER REGION STUDY
2012 WINTER PEAK BASE CASE REVISION 6.5

FIG 2012-ALT2-LOAD-WP-C7-14: 903L(BENALTO 17S TO KEEPHILLS 3 928L(BENALTO 17S TO SARCEE 42S) OUTAGE
WED, MAR 02 2011 9:11

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-505

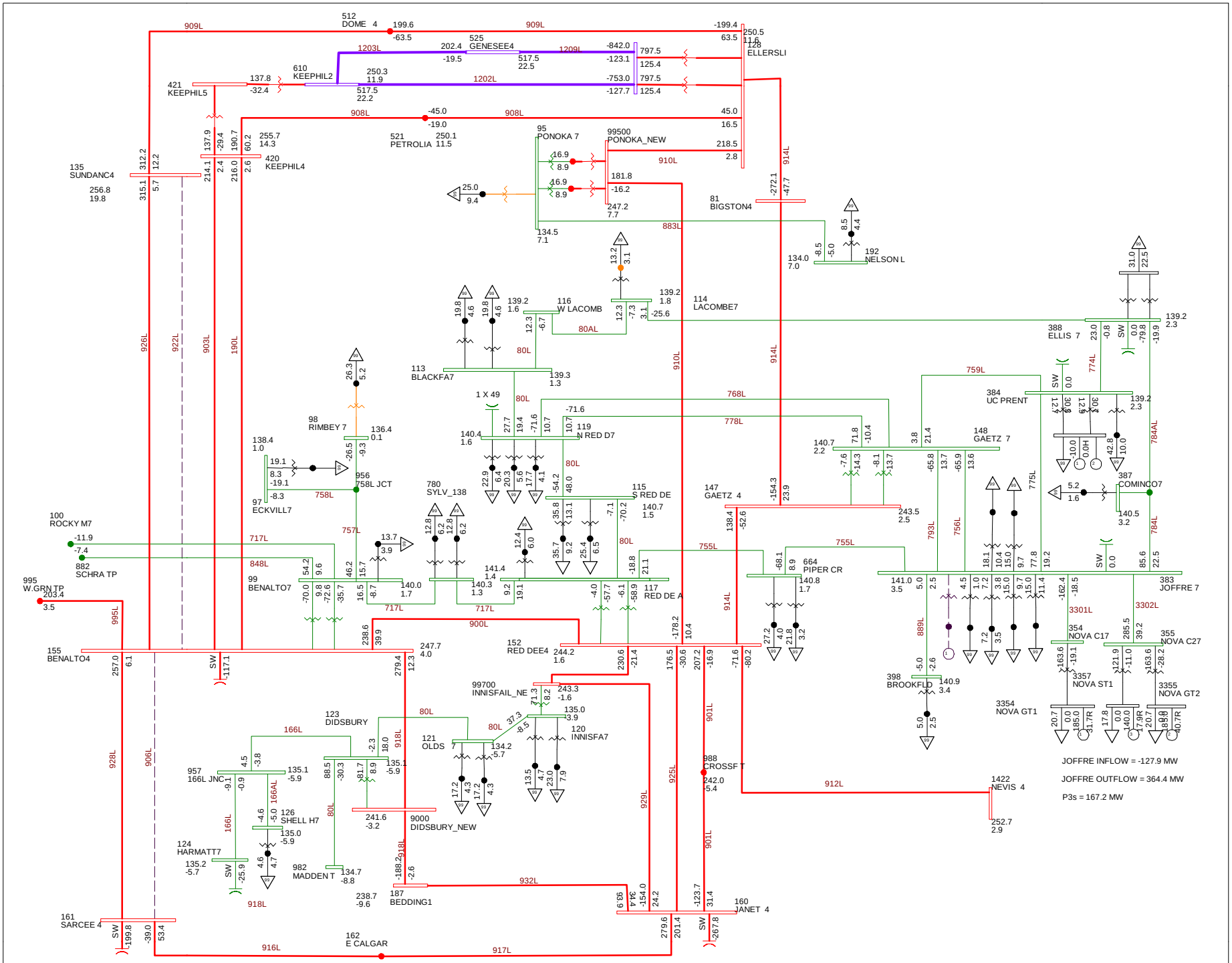


RED DEER REGION STUDY
2012 WINTER PEAK BASE CASE REVISION 6.5

FIG 2012-ALT2-LOAD-WP-C7-15: 190L(BENALTO 17S TO KEEPHILLS 3 918L(BENALTO 17S TO DIDSBURY 152S) OUTAGE
WED, MAR 02 2011 9:11

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-506



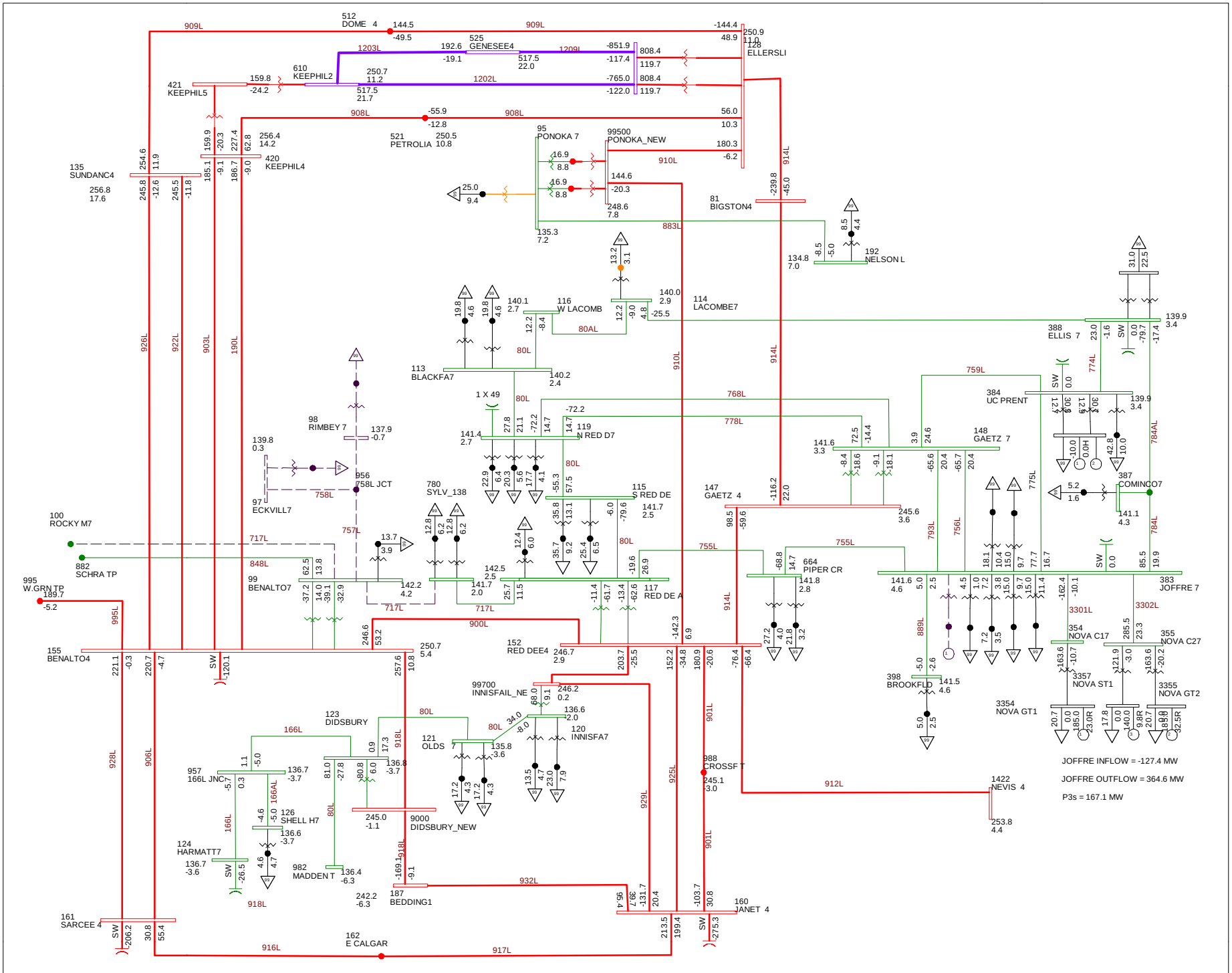
RED DEER REGION STUDY

2012 WINTER PEAK BASE CASE REVISION 6.5

FIG 2012-ALT2-LOAD-WP-C7-16: 922L(BENALTO 17S TO SUNDANCE 31 906L(BENALTO 17S TO SARCEE 42S) OUTAGE
WED, MAR 02 2011 9:11

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-507



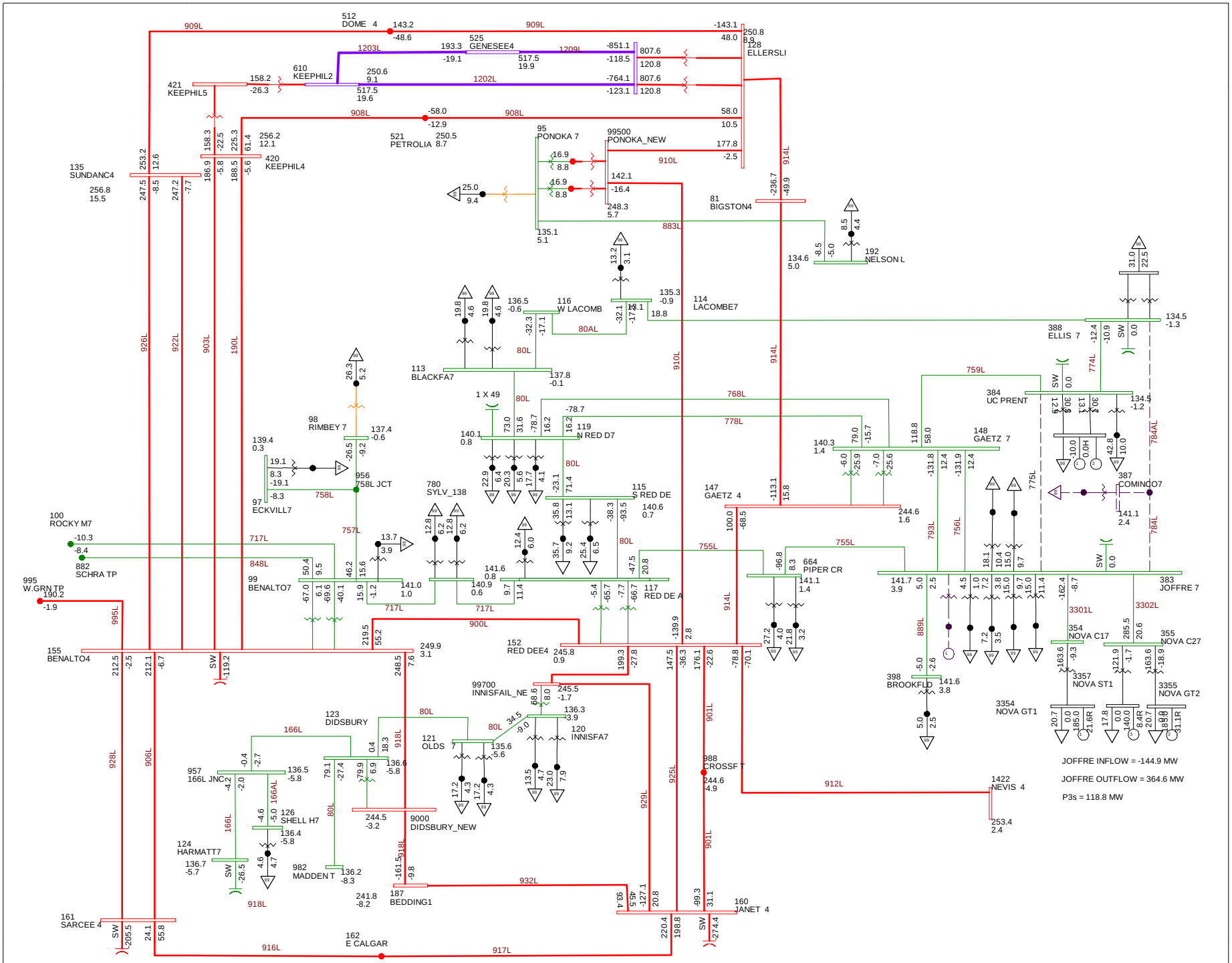
RED DEER REGION STUDY

2012 WINTER PEAK BASE CASE REVISION 6.5

FIG 2012-ALT2-LOAD-WP-C7-17: 757L(BENALTO 17S THROUGH ECKVIL 717L(BENALTO 17S TO SYLVAN LAKE 580S & 717L BENALTO 17S TO R
WED, MAR 02 2011 9:11

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-508



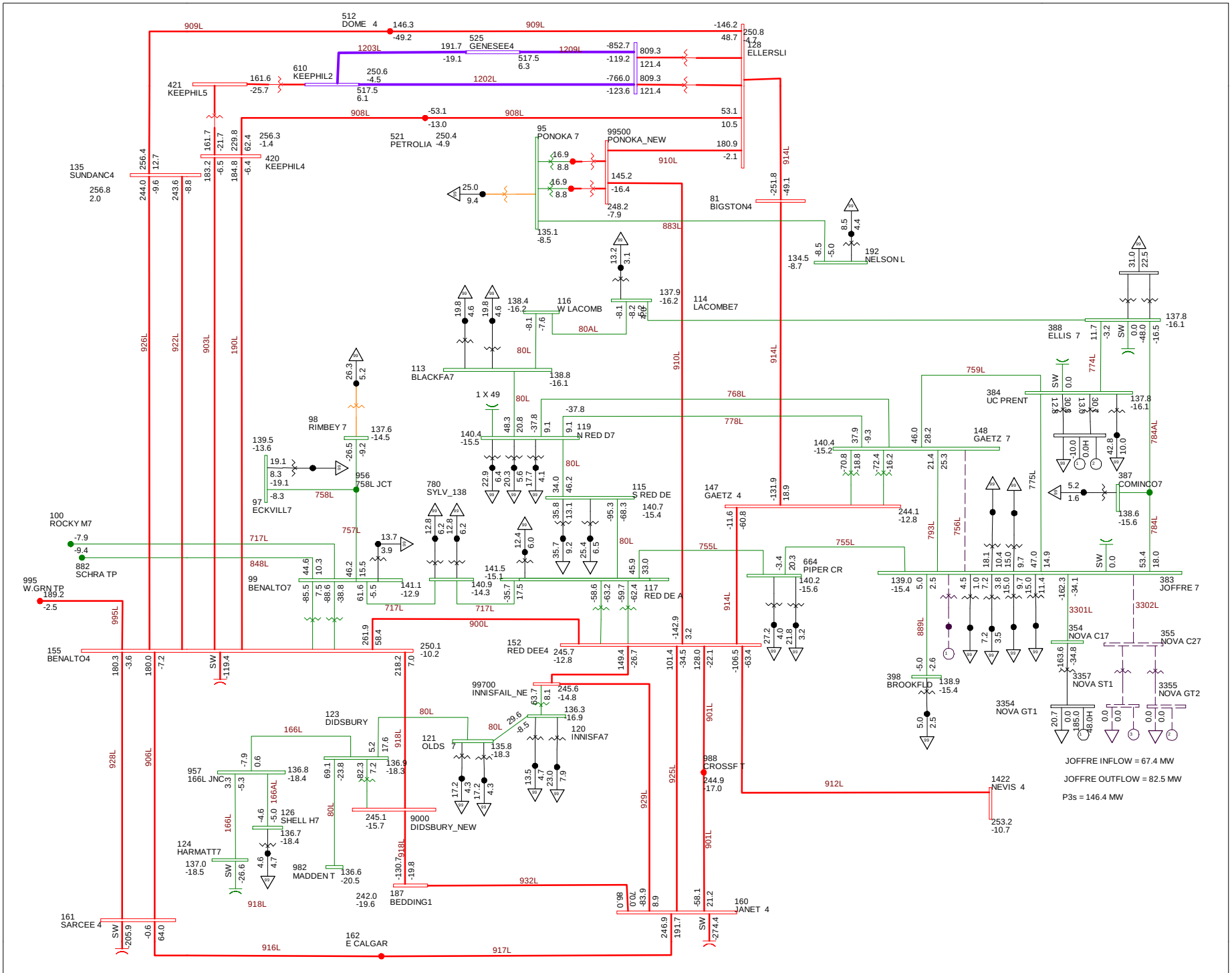
RED DEER REGION STUDY

2012 WINTER PEAK BASE CASE REVISION 6.5

FIG 2012-ALT2-LOAD-WP-C7-18: 784L(JOFFRE 535S TO HAYNES 482S 775L(JOFFRE 535S TO PRENTISS 276S) OUTAGE
WED, MAR 02 2011 9:11

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-509

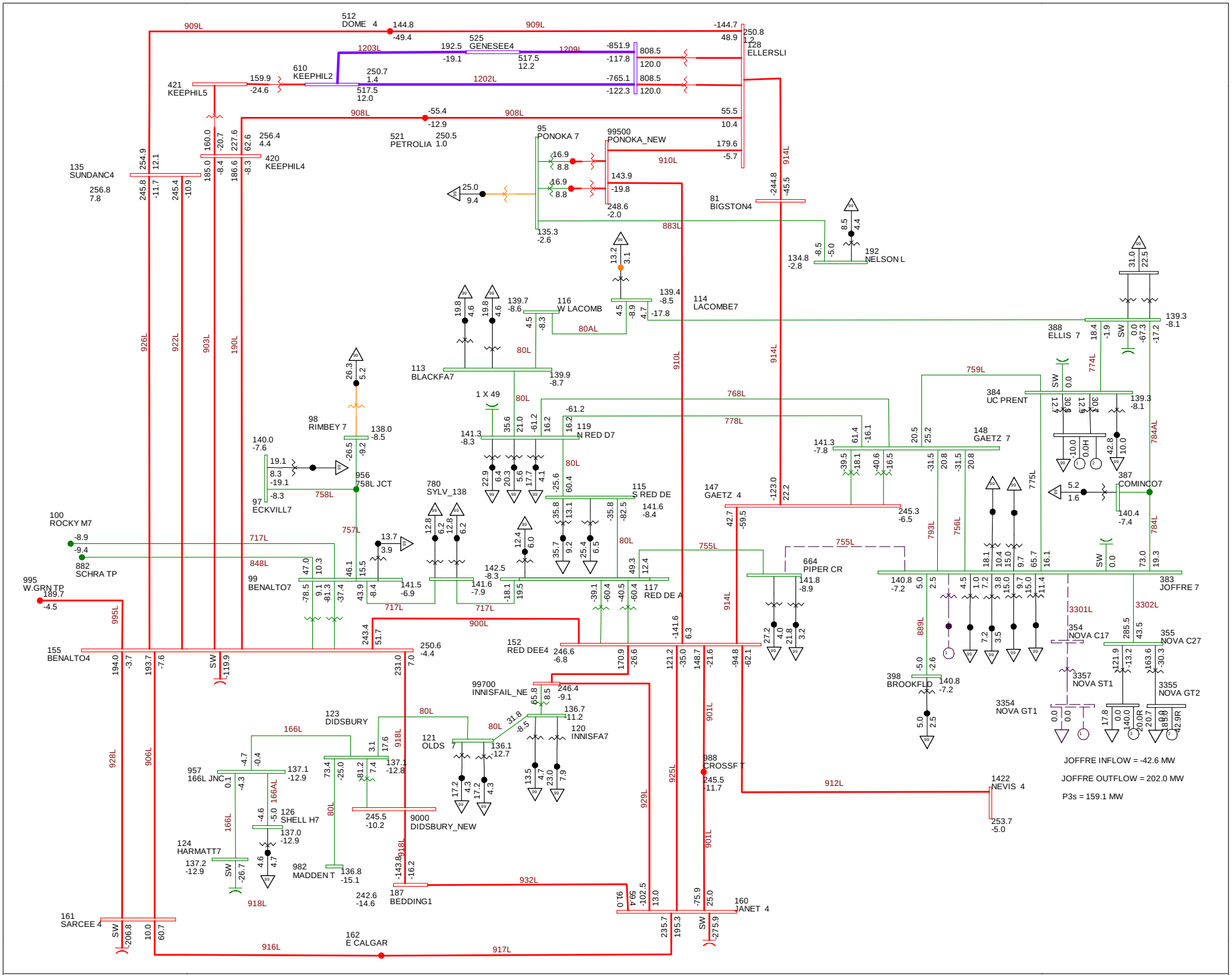


RED DEER REGION STUDY
2012 WINTER PEAK BASE CASE REVISION 6.5

FIG 2012-ALT2-LOAD-WP-C7-19: 756L(JOFFRE 535S TO GAETZ 87S)
1330L(JOFFRE 535S TO NOVA 355S) OUTAGE
WED, MAR 02 2011 9:11

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-510



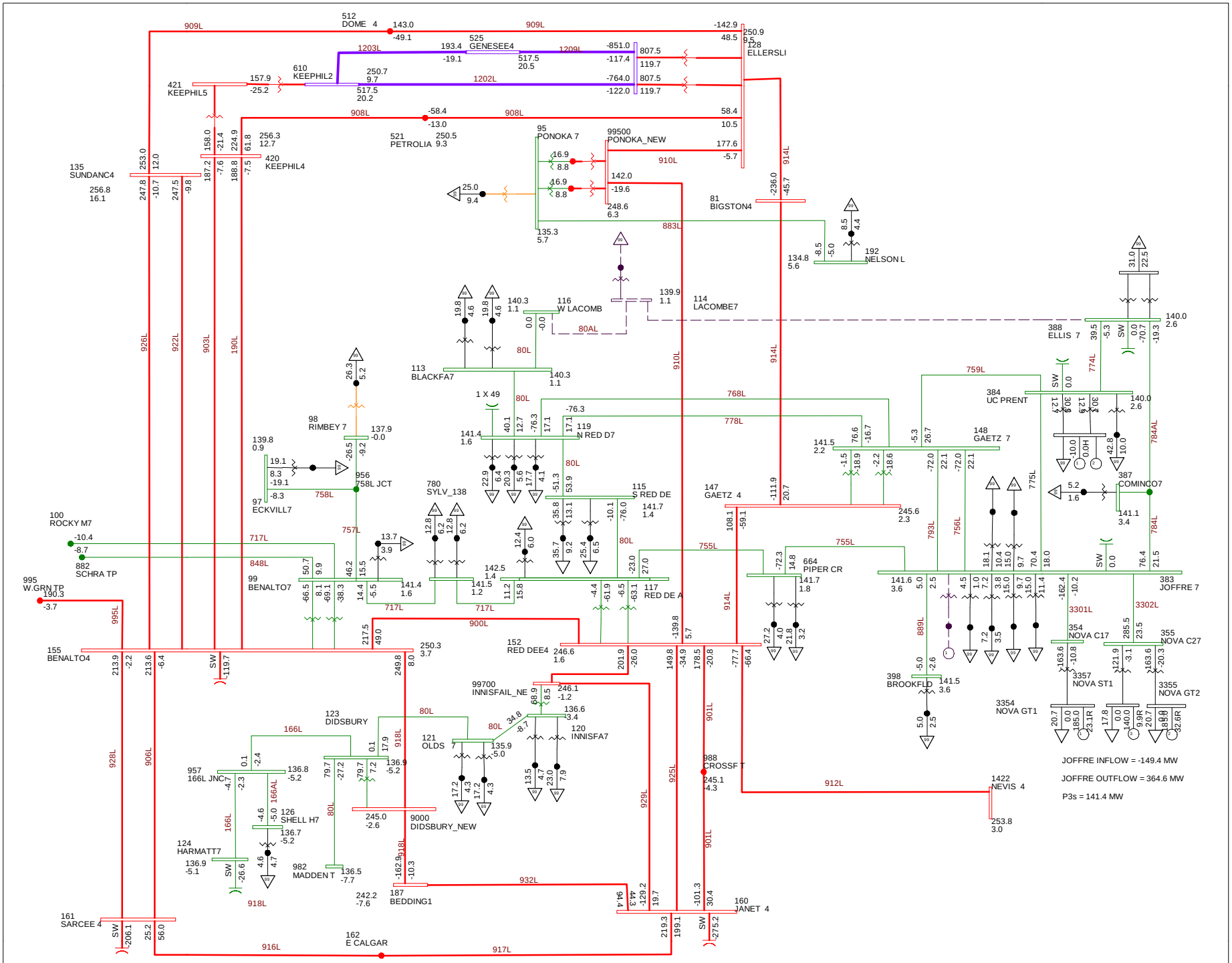
RED DEER REGION STUDY

2012 WINTER PEAK BASE CASE REVISION 6.5

FIG 2012-ALT2-LOAD-WP-C7-20: 755L(JOFFRE 535S TO PIPER CREEK 1330L(JOFFRE 535S TO NOVA 355S) OUTAGE
WED, MAR 02 2011 9:11

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR

D-2012-511



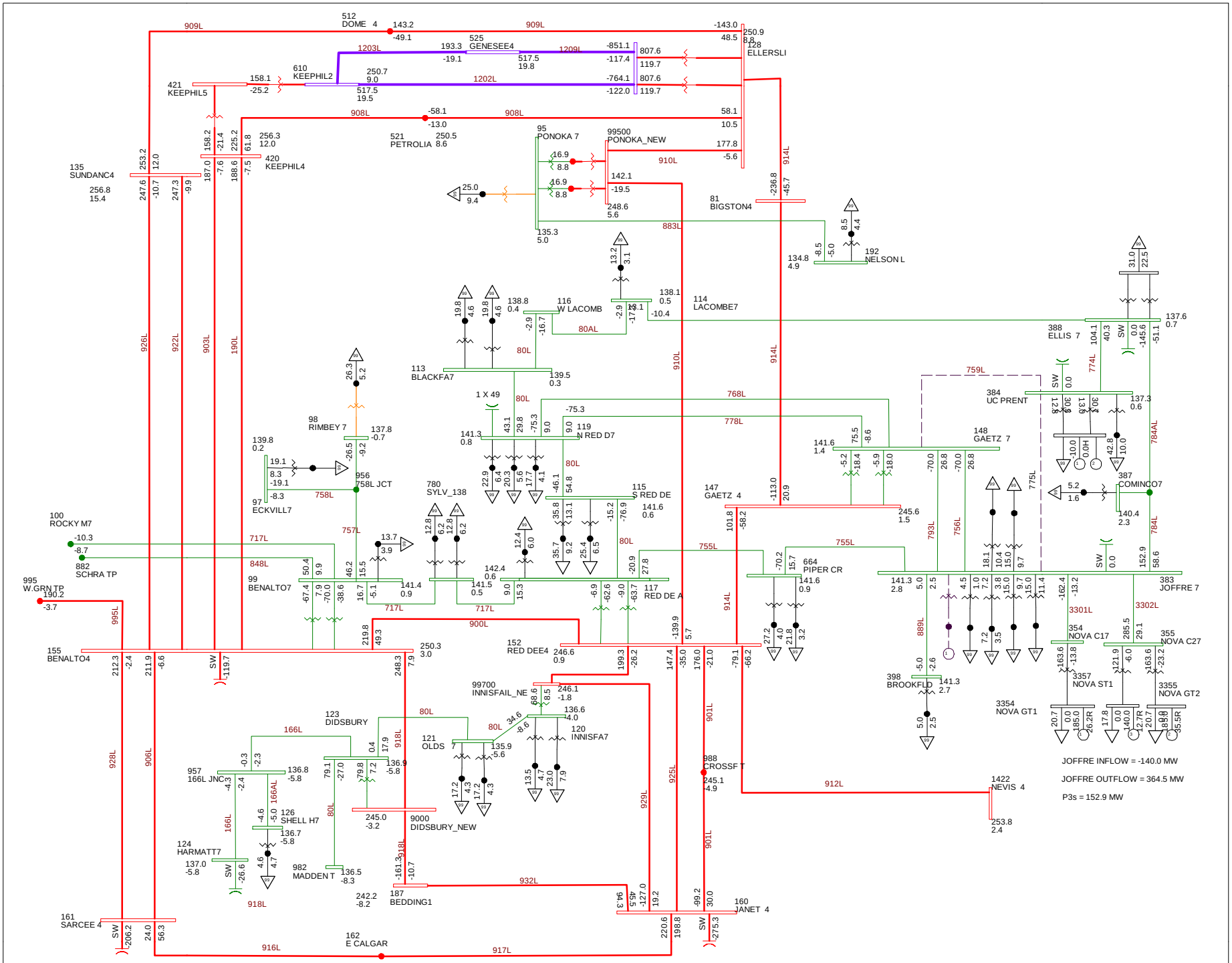
RED DEER REGION STUDY

2012 WINTER PEAK BASE CASE REVISION 6.5

FIG 2012-ALT2-LOAD-WP-C7-21: 80AL(N.E.LACOMBE 212S TO W. LAC NEW LINE(N.E.LACOMBE 212S TO ELLIS 332S) OUTAGE
WED, MAR 02 2011 9:11

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-512



RED DEER REGION STUDY

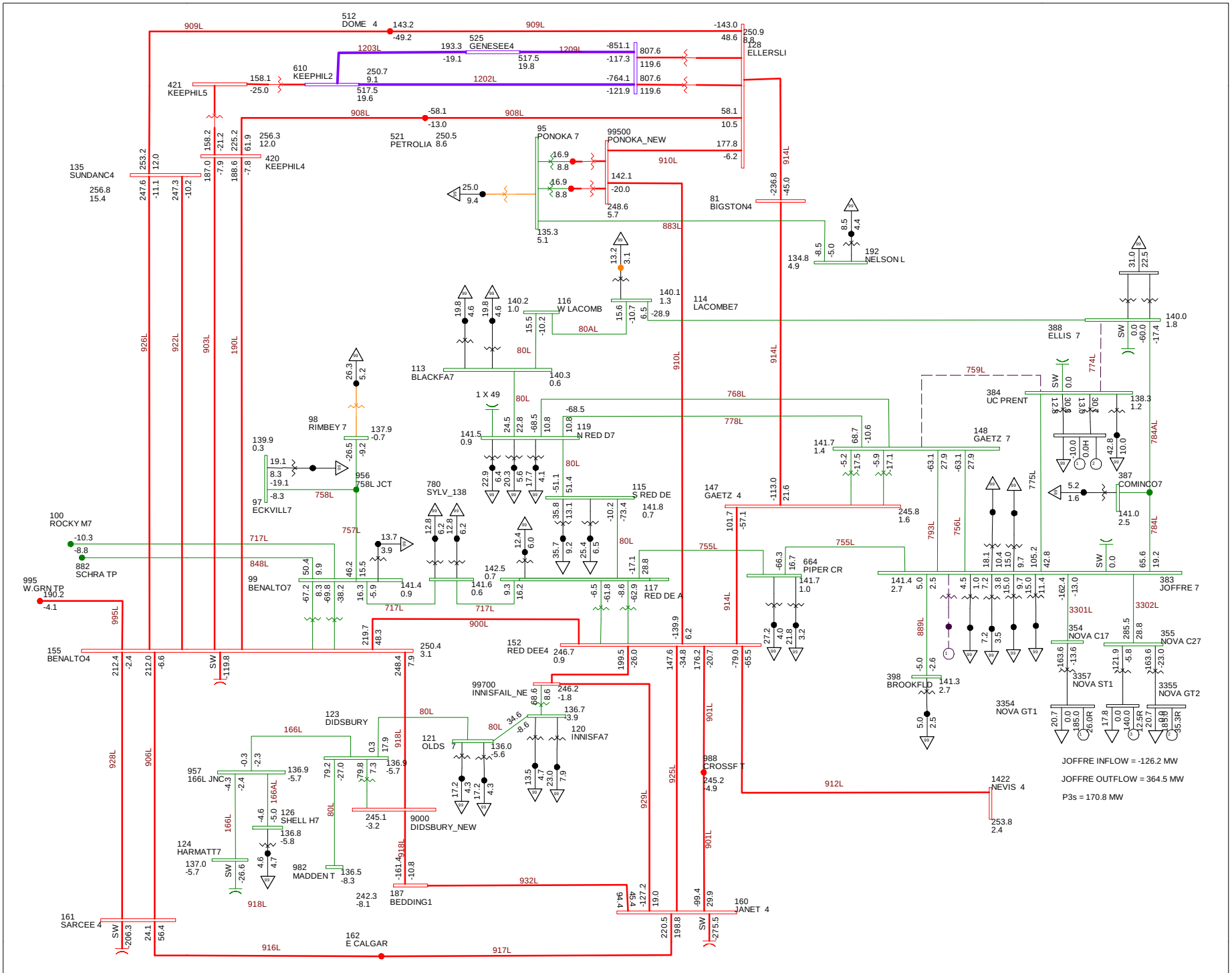
2012 WINTER PEAK BASE CASE REVISION 6.5

FIG 2012-ALT2-LOAD-WP-C7-22: 775L(PRENTISS 276S TO JOFFRE 53 759L(PRENTISS 276S TO GAETZ 87S) OUTAGE
WED, MAR 02 2011 9:11

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR

<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-513



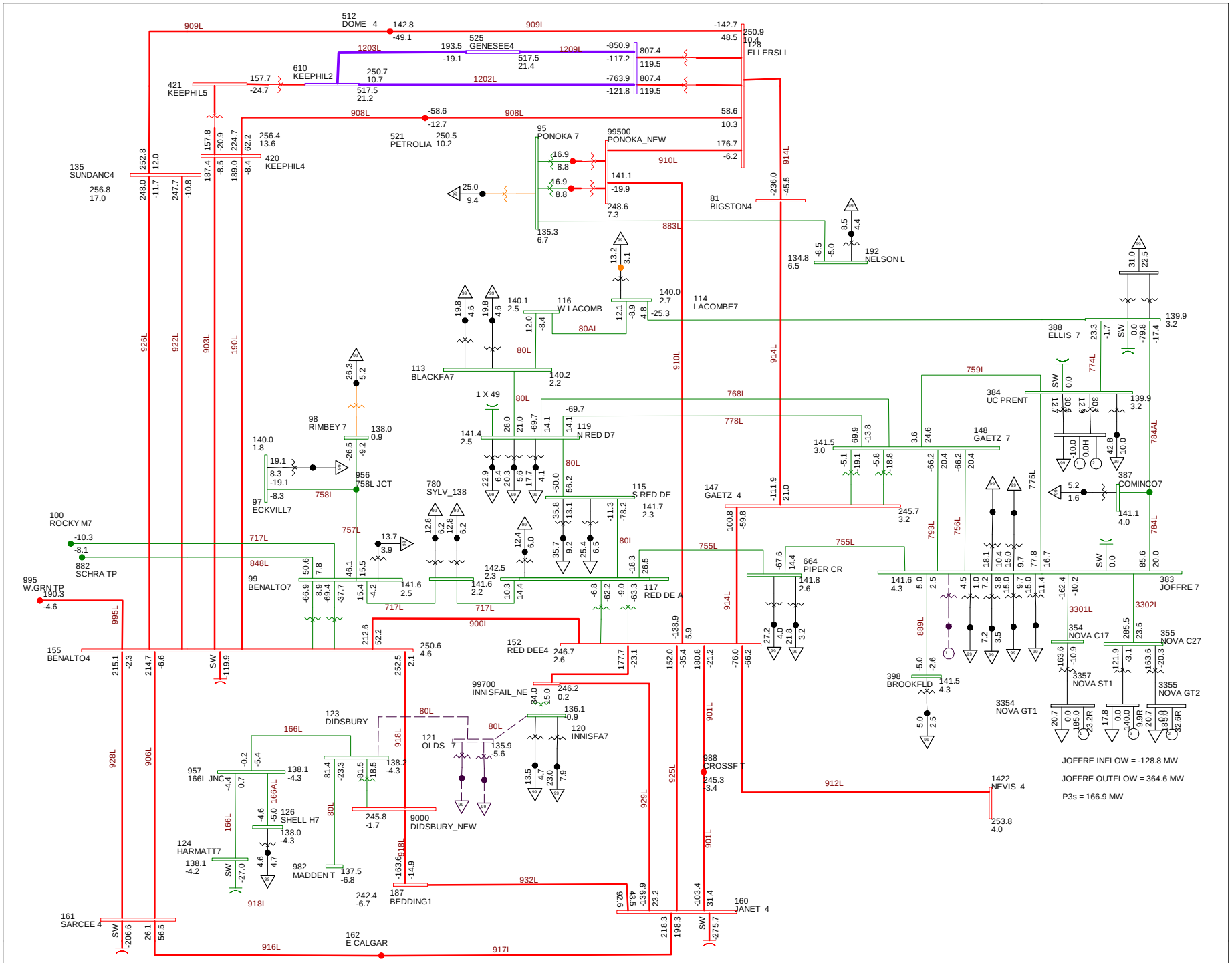
RED DEER REGION STUDY

2012 WINTER PEAK BASE CASE REVISION 6.5

FIG 2012-ALT2-LOAD-WP-C7-23: 774L(PRENTISS 276S TO ELLIS 332 759L(PRENTISS 276S TO GAETZ 87S) OUTAGE
WED, MAR 02 2011 9:11

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-514



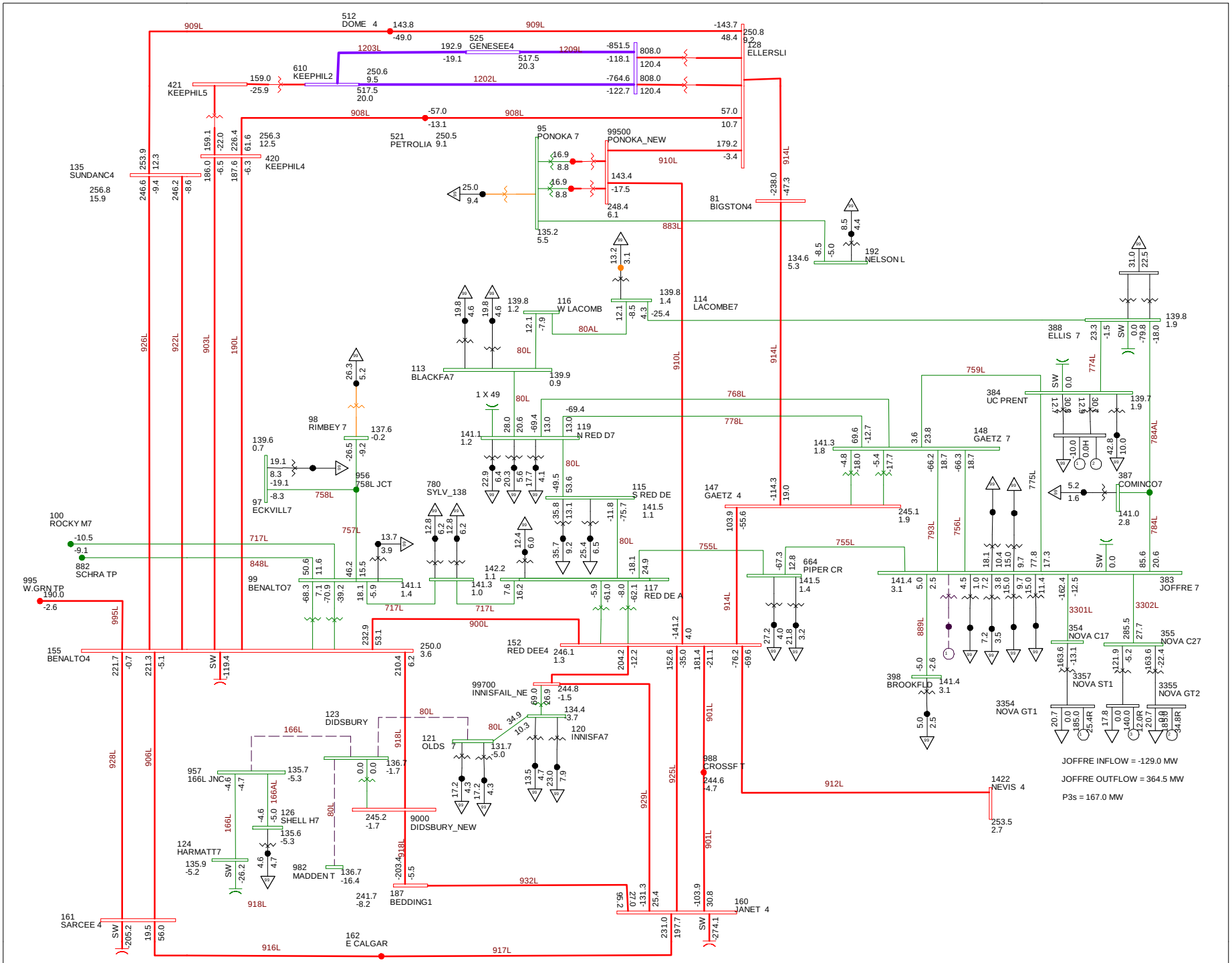
RED DEER REGION STUDY

2012 WINTER PEAK BASE CASE REVISION 6.5

FIG 2012-ALT2-LOAD-WP-C7-24: 80L(OLDS 55S TO INNISFAIL 214S)
80L(OLDS 55S TO DIDSBURY 152S) OUTAGE
WED, MAR 02 2011 9:11

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-515



RED DEER REGION STUDY

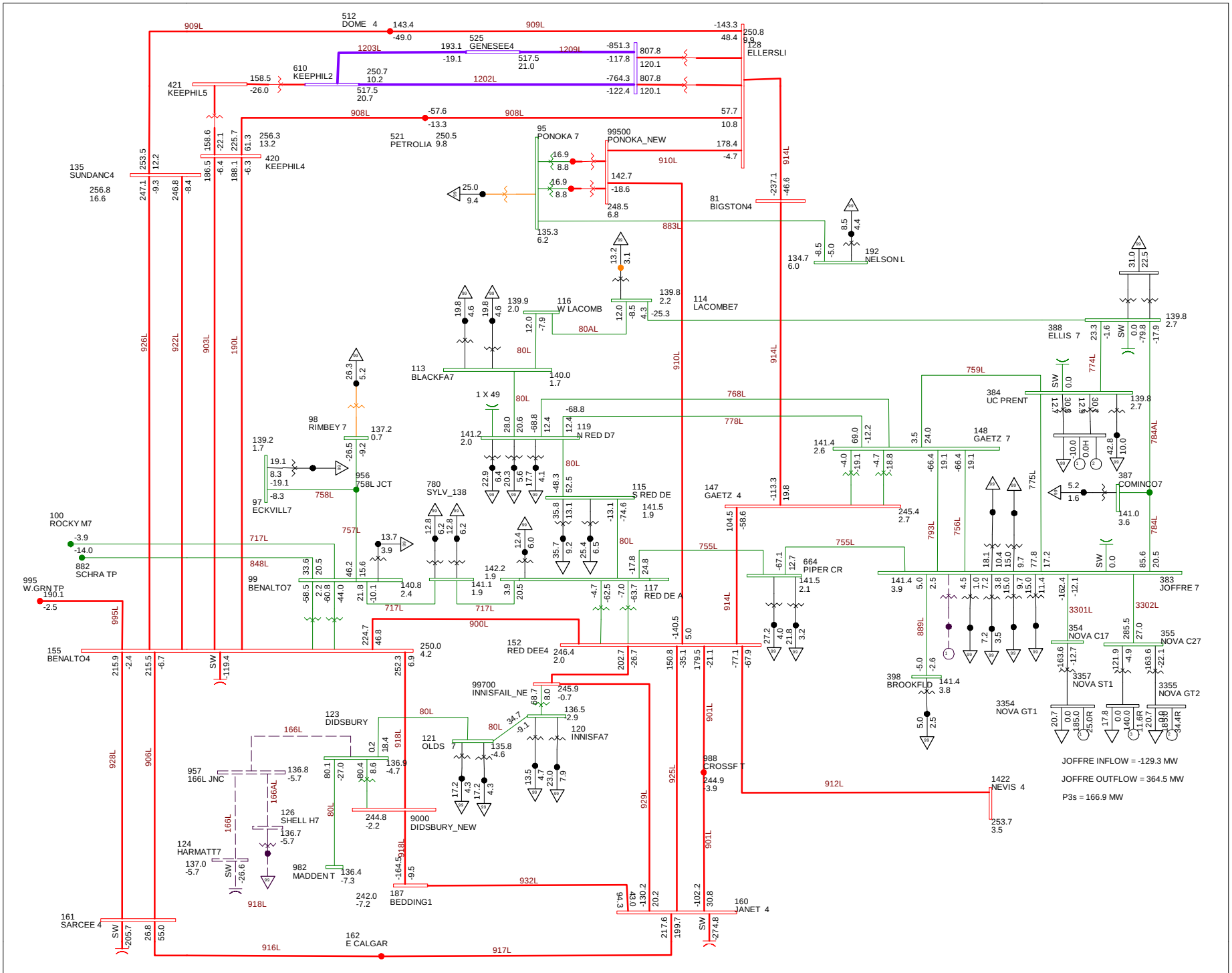
2012 WINTER PEAK BASE CASE REVISION 6.5

FIG 2012-ALT2-LOAD-WP-C7-25: 80L(OLDS 55S TO DIDSBURY 152S)
80L(DIDSBURY 152S TO TO MADDEN 373S) & 166L(DIDSBURY 152S T
WED, MAR 02 2011 9:11

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR

<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-516



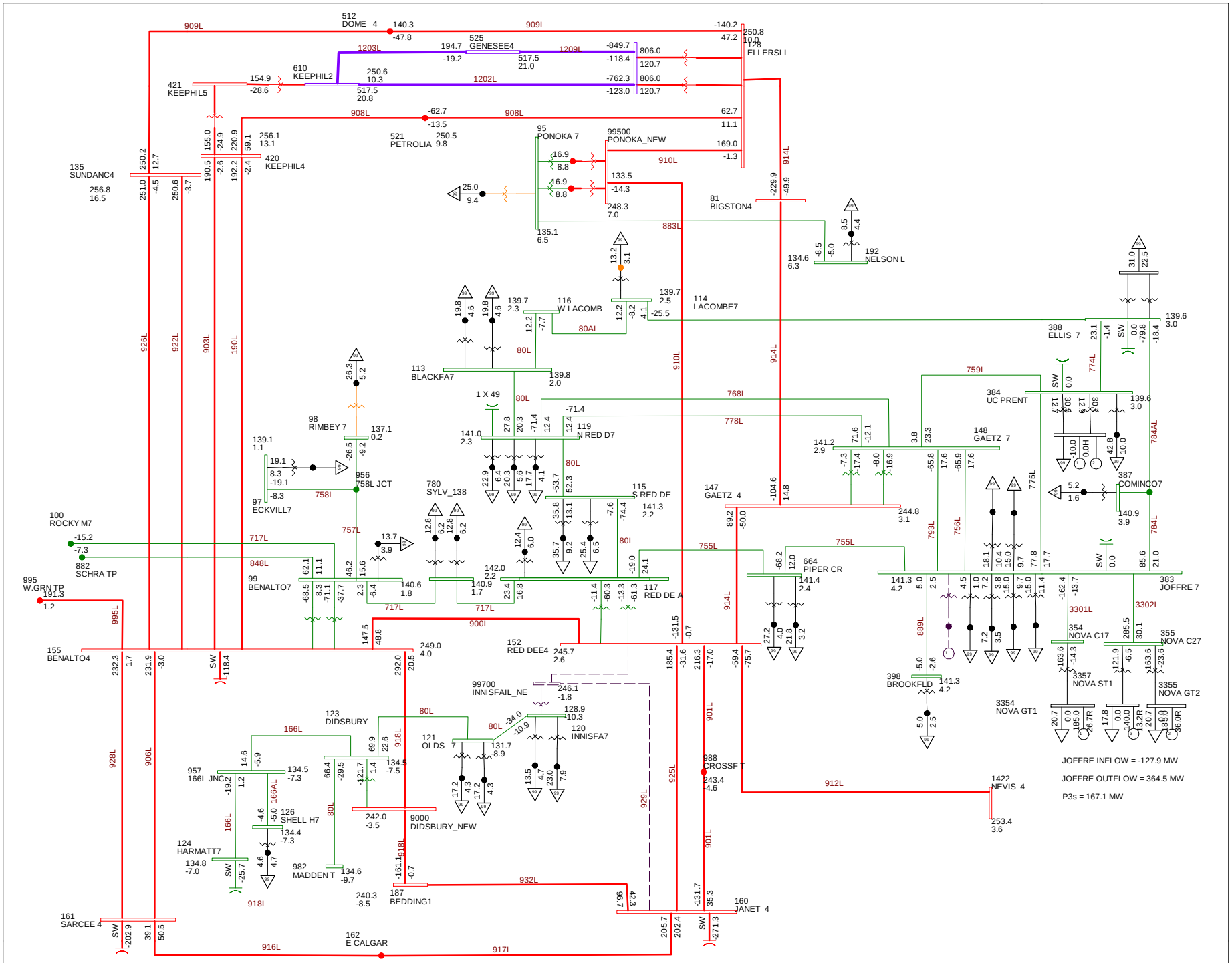
RED DEER REGION STUDY

2012 WINTER PEAK BASE CASE REVISION 6.5

FIG 2012-ALT2-LOAD-WP-C7-26: 166L(HARMATTAN 256S TO SHELL HA 166L(HARMATTAN 256S TO SHELL EAGLE CR. 412S TO SUNDRE 575S)
WED, MAR 02 2011 9:11

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-517



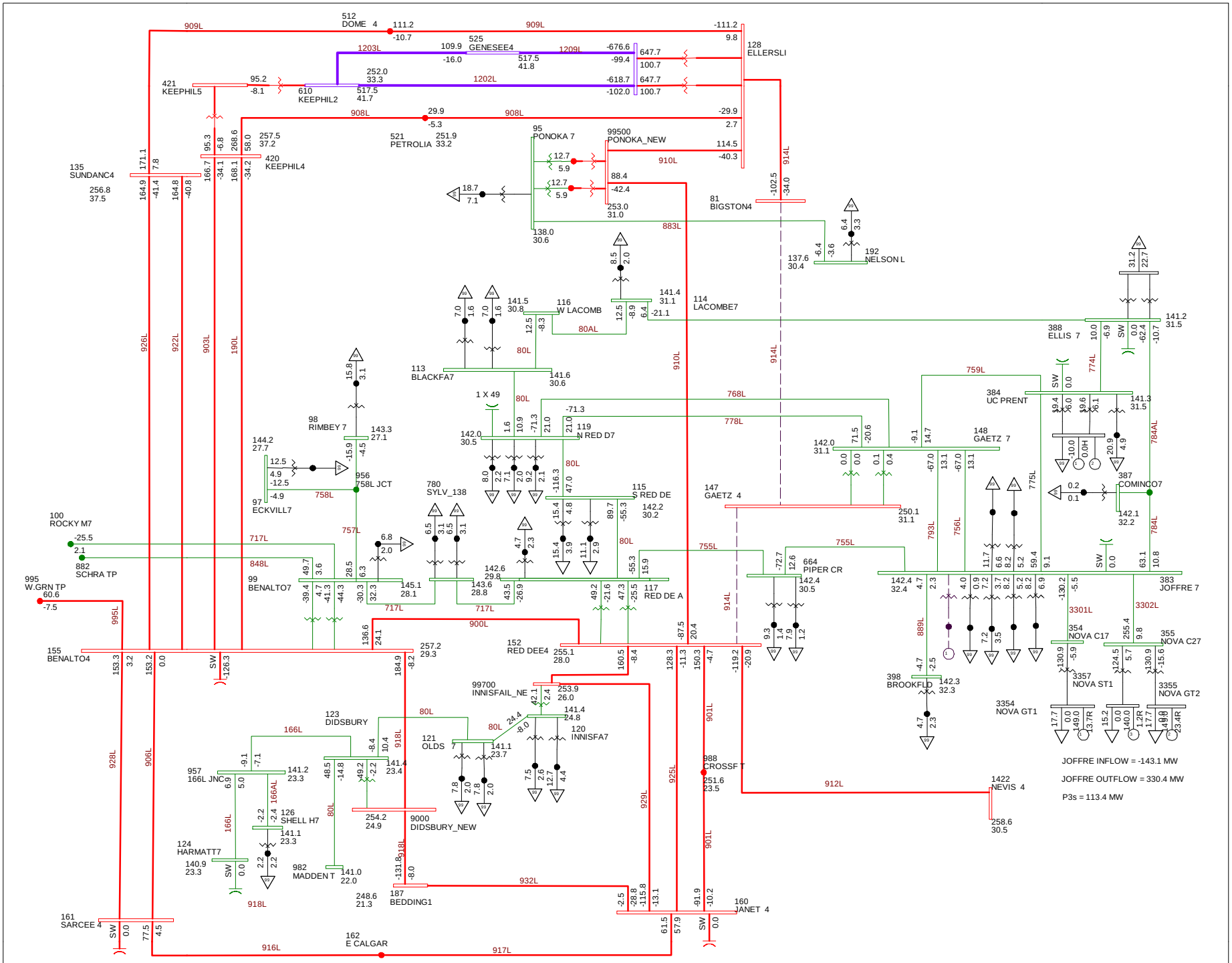
RED DEER REGION STUDY

2012 WINTER PEAK BASE CASE REVISION 6.5

FIG 2012-ALT2-LOAD-WP-C7-27: 929L(RED DEER 63S TO INNISFAIL 929L(INNISFAIL 214S TO JANET 74S) OUTAGE
WED, MAR 02 2011 9:11

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-518



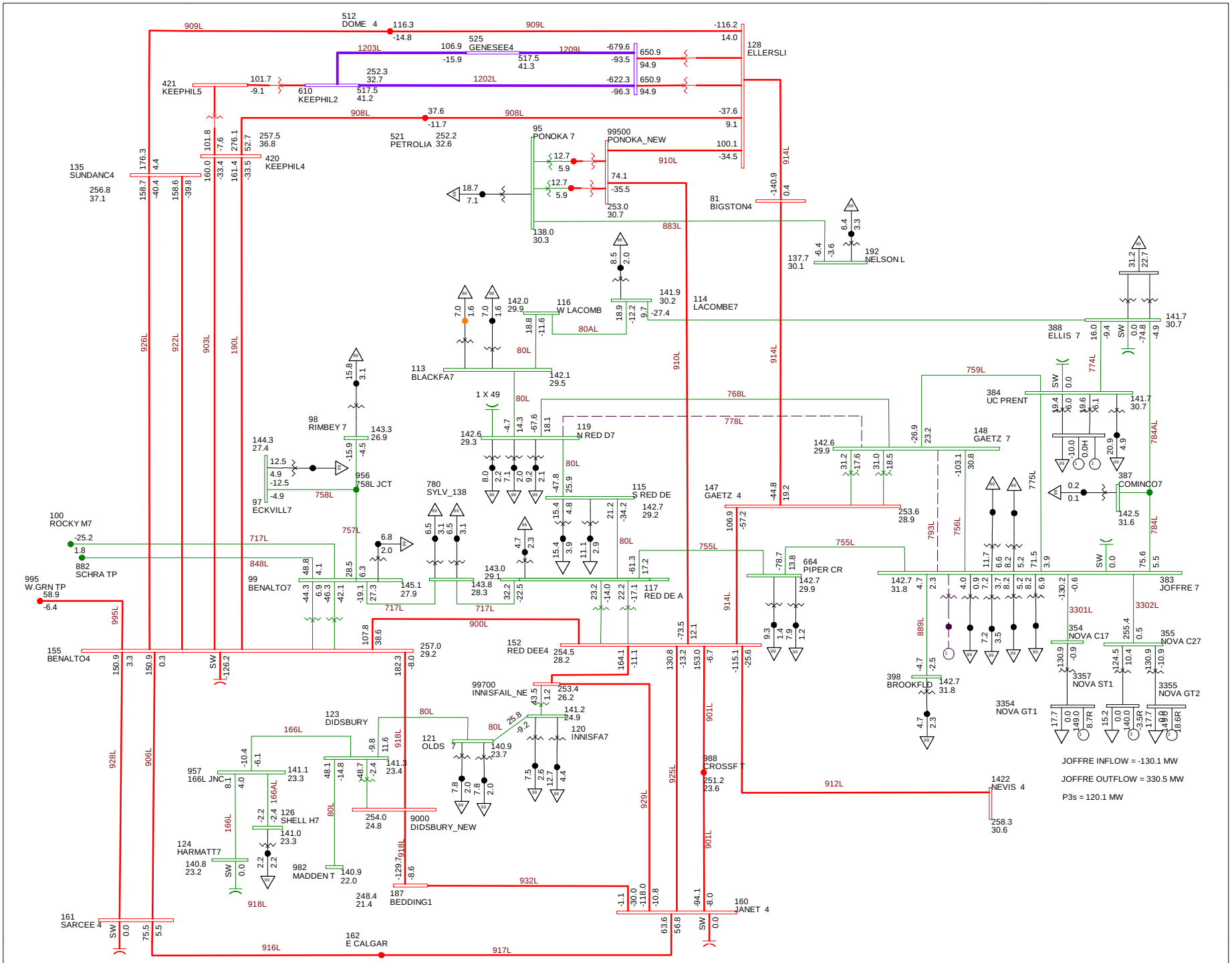
RED DEER REGION STUDY

2012 SUMMER LIGHT BASE CASE REVISION 6.5

FIG 2012-ALT2-LOAD-SL-C7-1: 914L(GAETZ 87S TO RED DEER 63S)
914L(GAETZ 87S TO BIGSTONE 86S) OUTAGE
WED, MAR 02 2011 9:06

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-519



RED DEER REGION STUDY

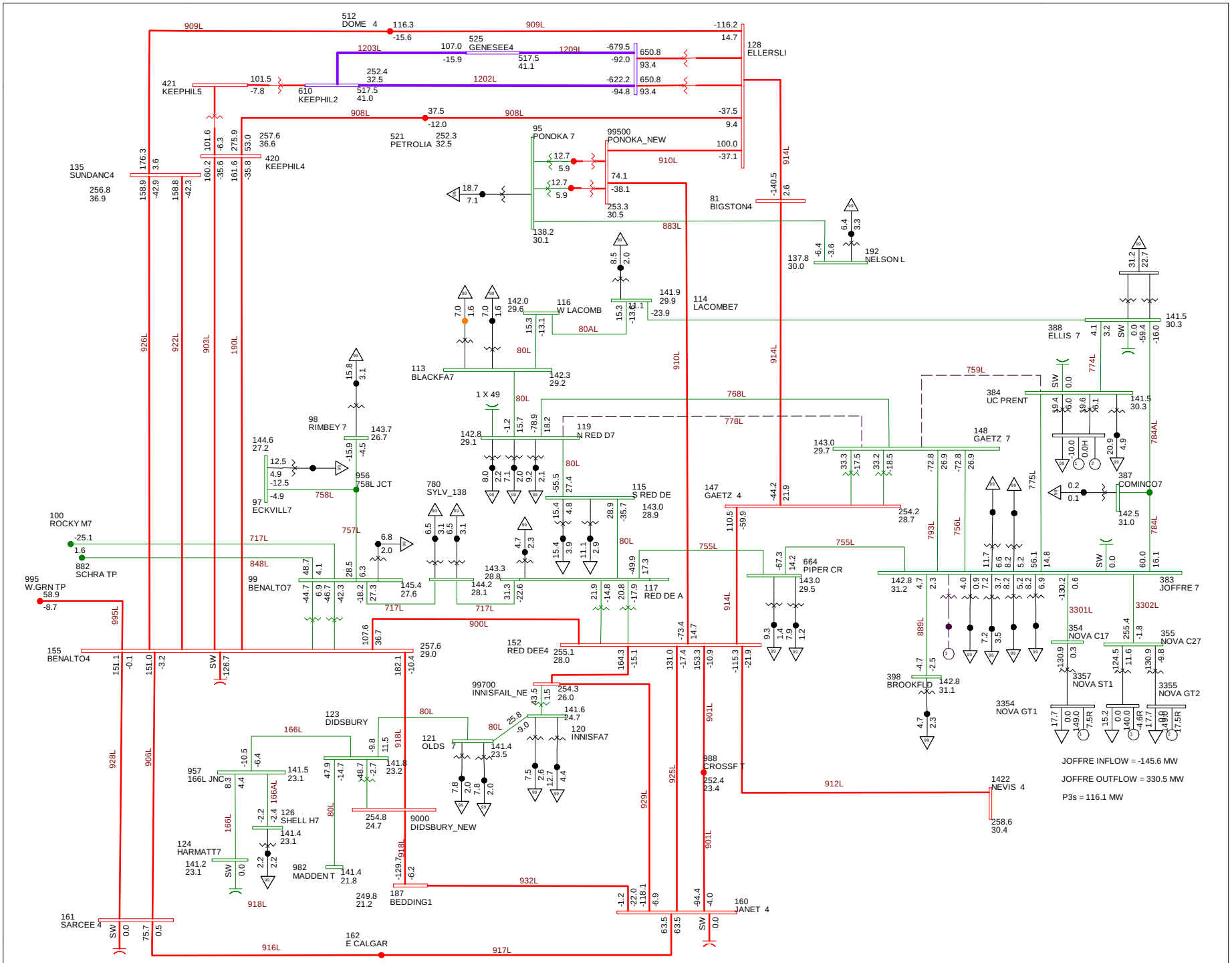
2012 SUMMER LIGHT BASE CASE REVISION 6.5

FIG 2012-ALT2-LOAD-SL-C7-2: 793L(GAETZ 87S TO JOFFRE 535S) & 778L(GAETZ 87S TO N.RED DEER 217S) OUTAGE
WED, MAR 02 2011 9:06

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR

<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-520



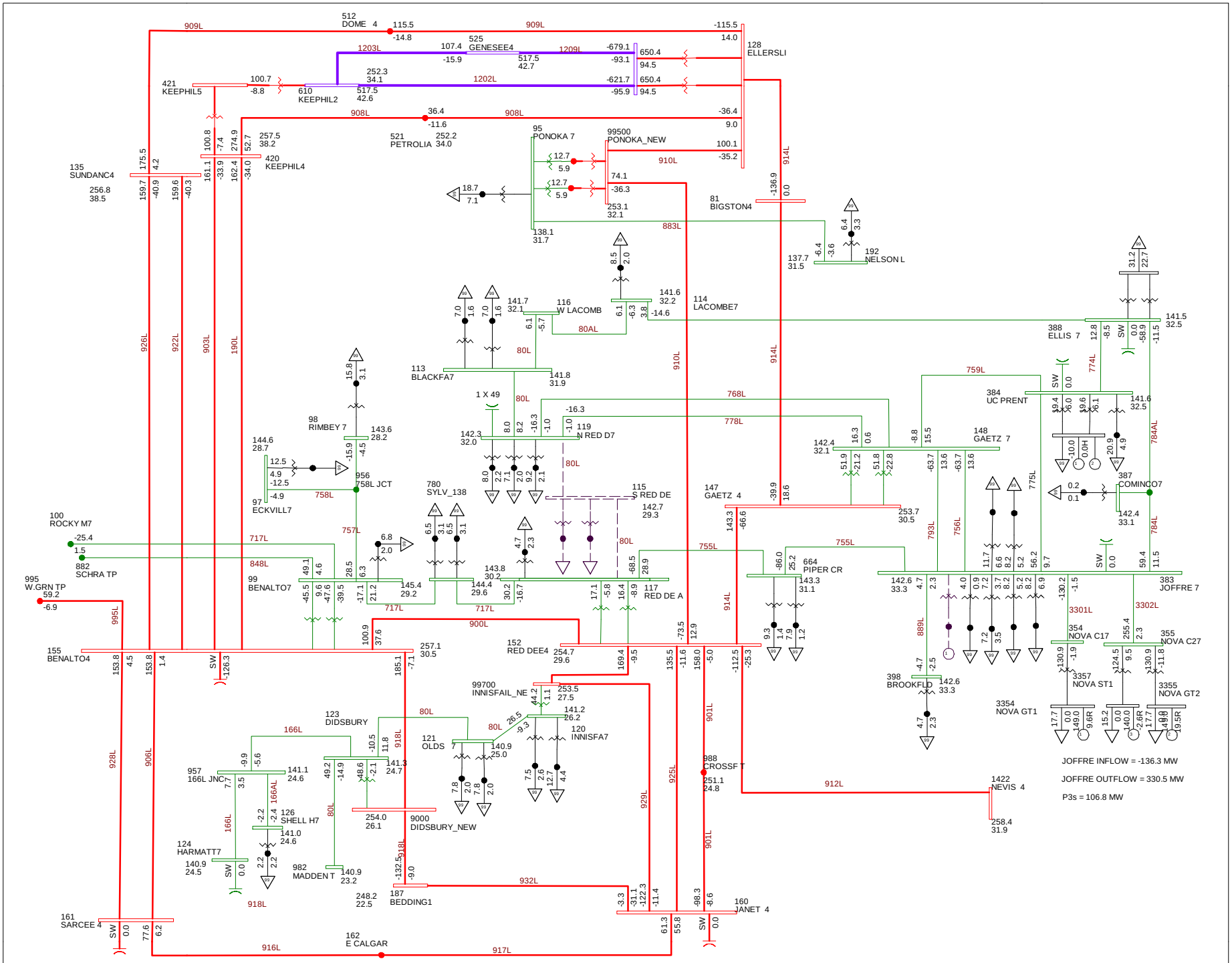
RED DEER REGION STUDY

2012 SUMMER LIGHT BASE CASE REVISION 6.5

FIG 2012-ALT2-LOAD-SL-C7-3: 778L(GAETZ 87S TO N. RED DEER 21 759L(GAETZ 87S TO PRENTISS 276S) OUTAGE
WED, MAR 02 2011 9:06

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-521



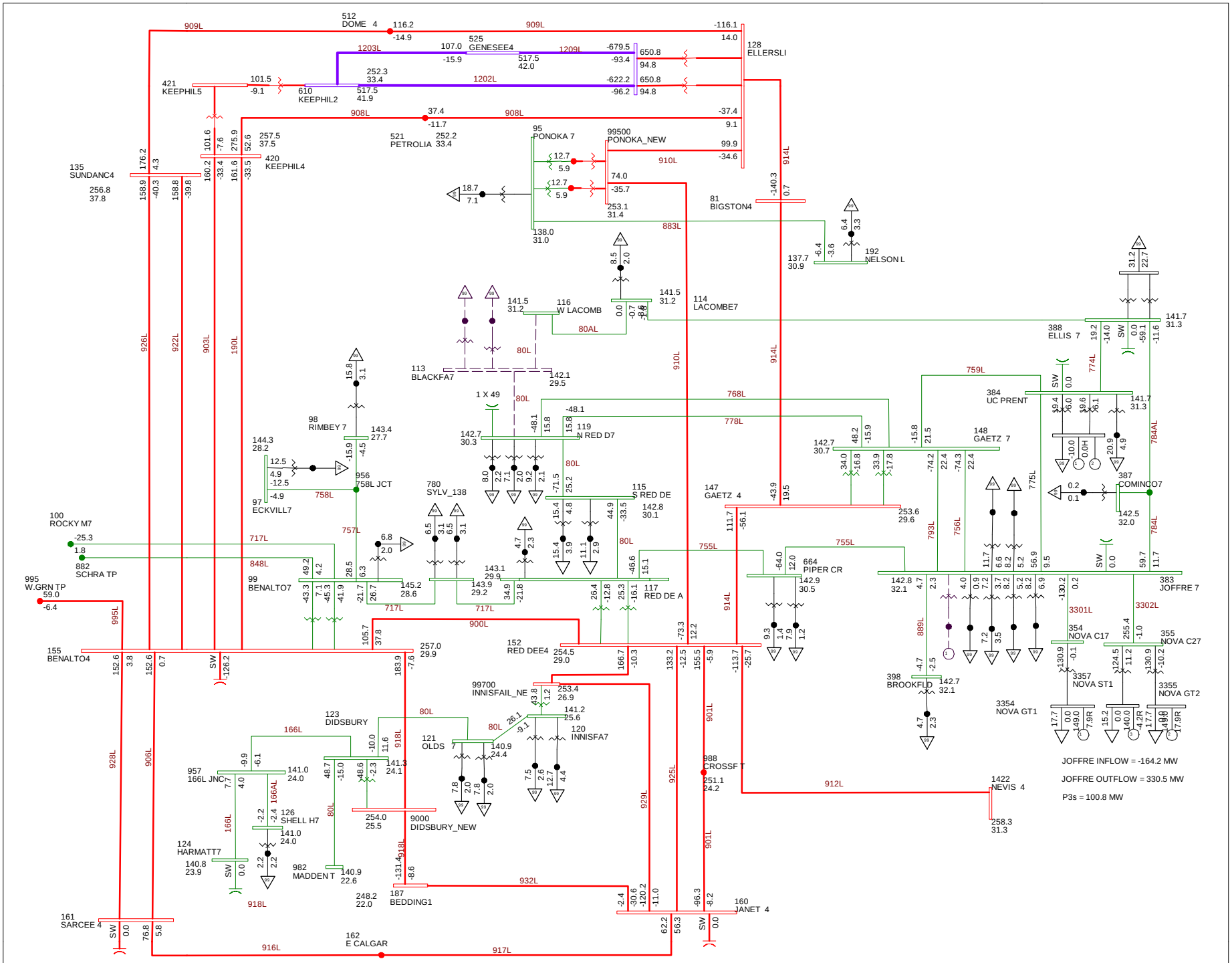
RED DEER REGION STUDY

2012 SUMMER LIGHT BASE CASE REVISION 6.5

FIG 2012-ALT2-LOAD-SL-C7-4: 80L(S. RED D. 194S TO N. RED D. 80L(S. RED D. 194S TO RED DEER 63S) OUTAGE
WED, MAR 02 2011 9:06

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-522



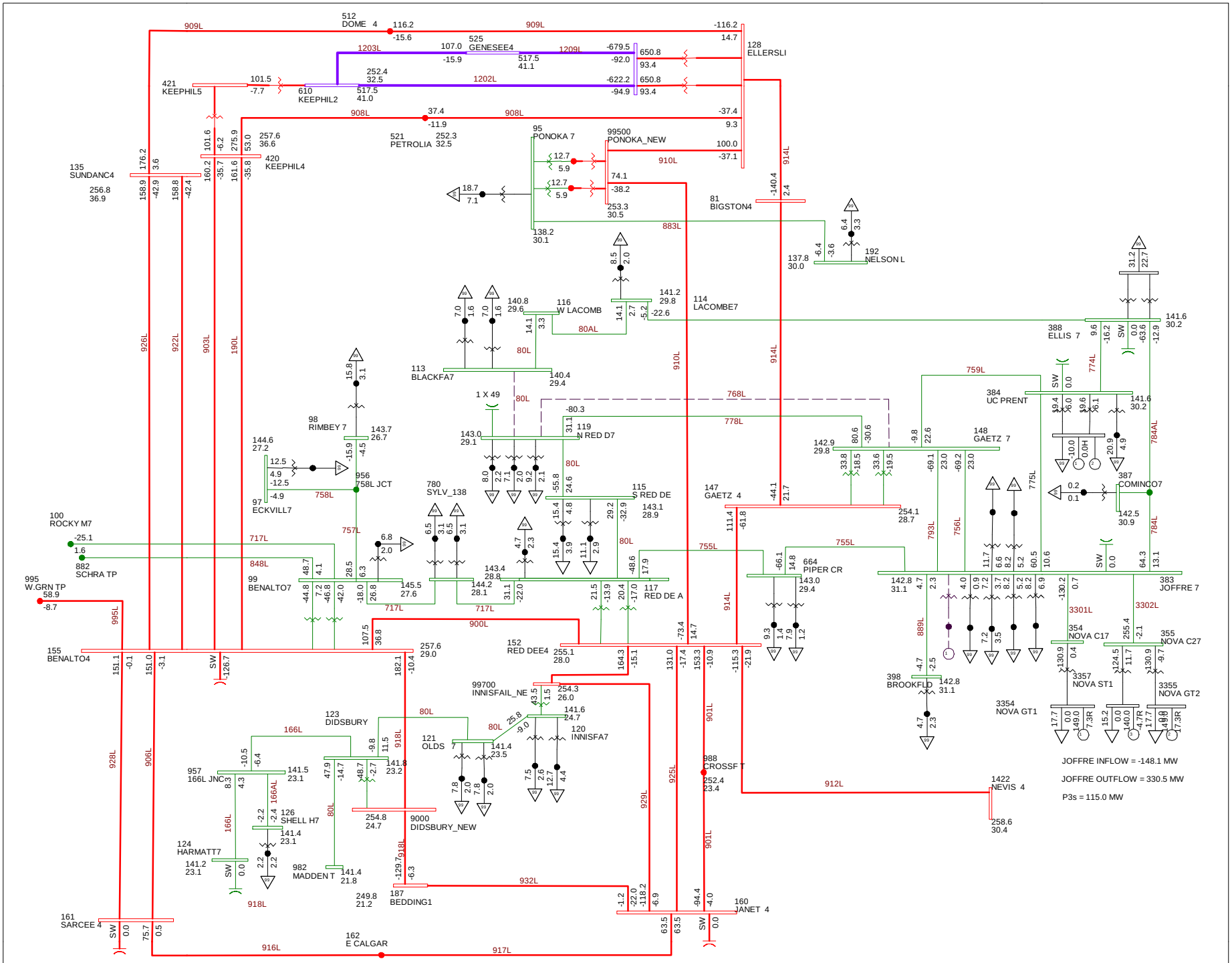
RED DEER REGION STUDY

2012 SUMMER LIGHT BASE CASE REVISION 6.5

FIG 2012-ALT2-LOAD-SL-C7-5: 80L(BLACKFALDS 198S TO W. LACOMB 80L(BLACKFALDS 198S TO N. RED D. 217S) OUTAGE
WED, MAR 02 2011 9:06

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-523



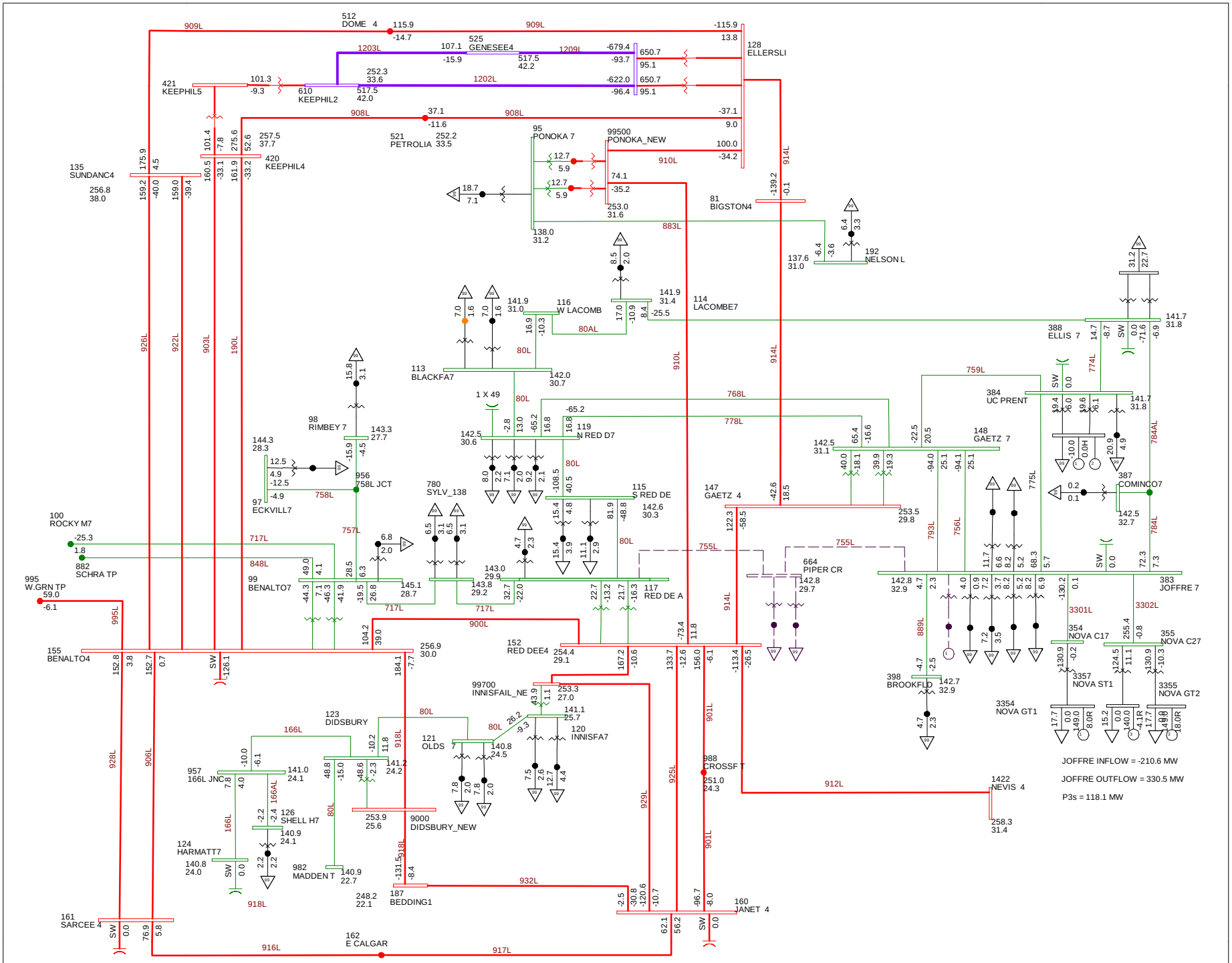
RED DEER REGION STUDY

2012 SUMMER LIGHT BASE CASE REVISION 6.5

FIG 2012-ALT2-LOAD-SL-C7-6: 80L(N. RED D. 217S TO GAETZ 87S)
80L(BLACKFALDS 198S TO N. RED D. 217S) OUTAGE
WED, MAR 02 2011 9:07

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-524



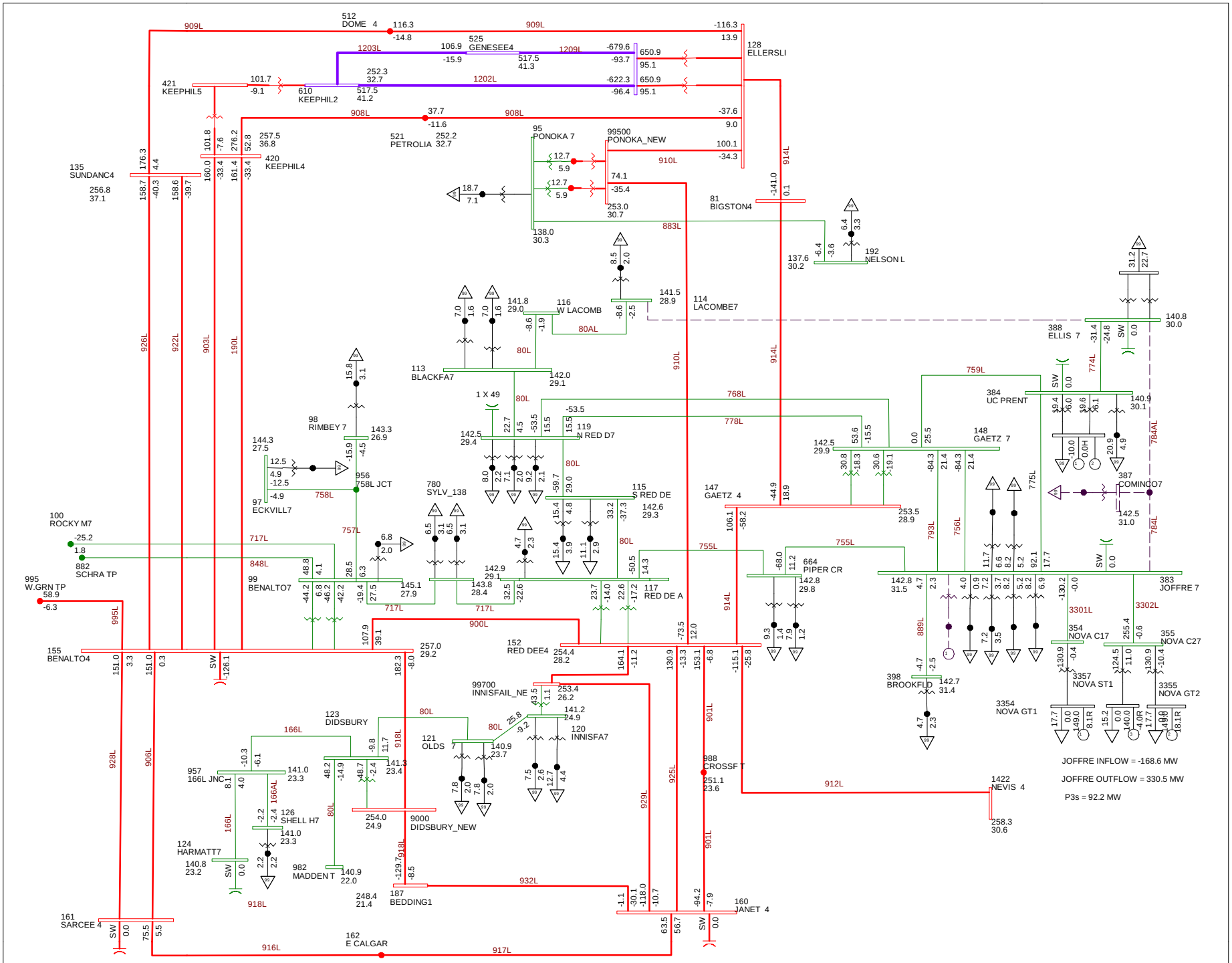
RED DEER REGION STUDY

2012 SUMMER LIGHT BASE CASE REVISION 6.5

FIG 2012-ALT2-LOAD-SL-C7-7: 755L(PIPER CR. 274S TO RED DEER
755L(PIPER CR. 274S TO JOFFRE 535S) OUTAGE
WED, MAR 02 2011 9:07

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-525



RED DEER REGION STUDY

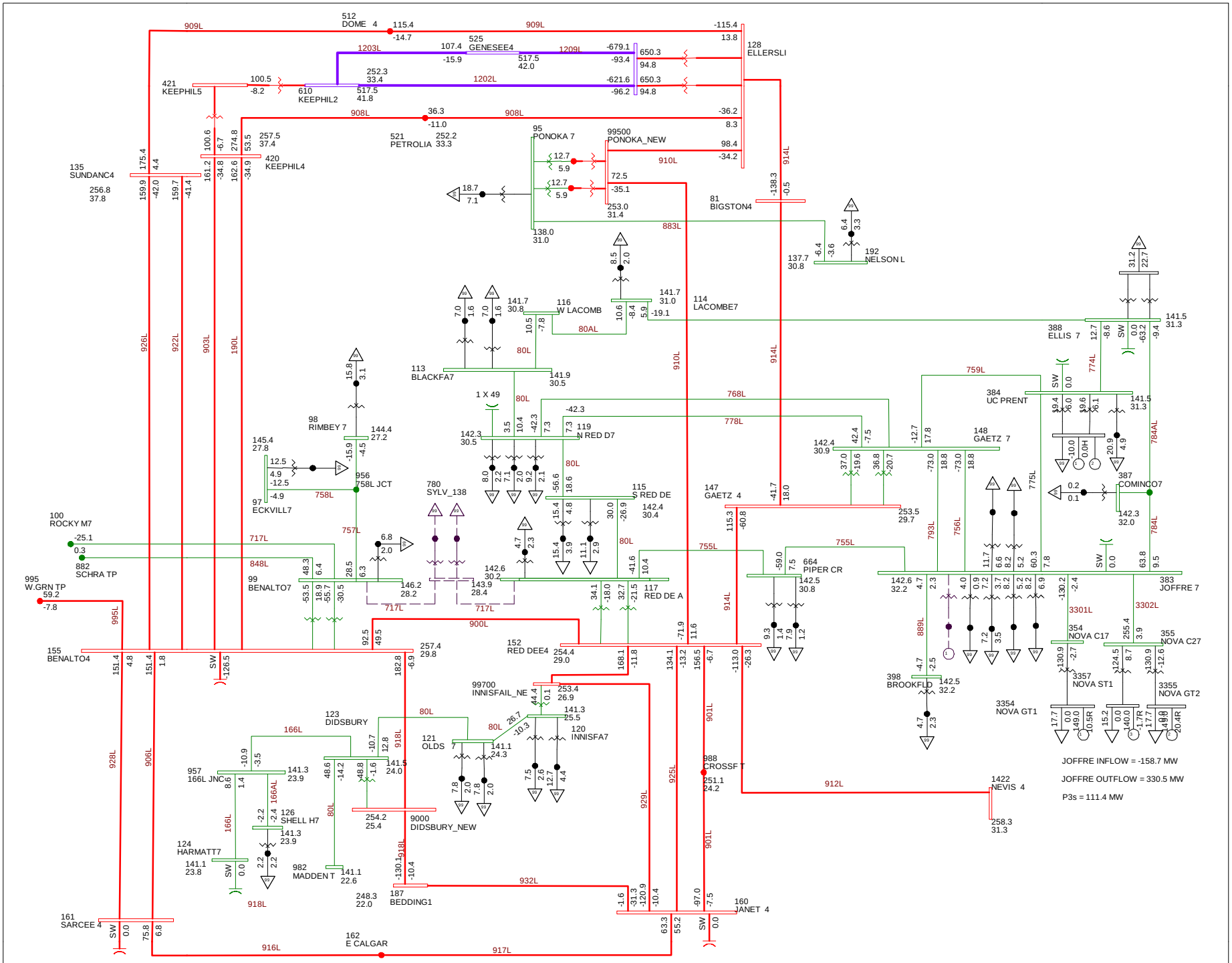
2012 SUMMER LIGHT BASE CASE REVISION 6.5

FIG 2012-ALT2-LOAD-SL-C7-8: NEW LINE(N.E.LACOMBE 212S TO ELL 784L(ELLIS 332S TO HAYNES 482S TO JOFFRE 535S) OUTAGE
WED, MAR 02 2011 9:07

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR

<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-526



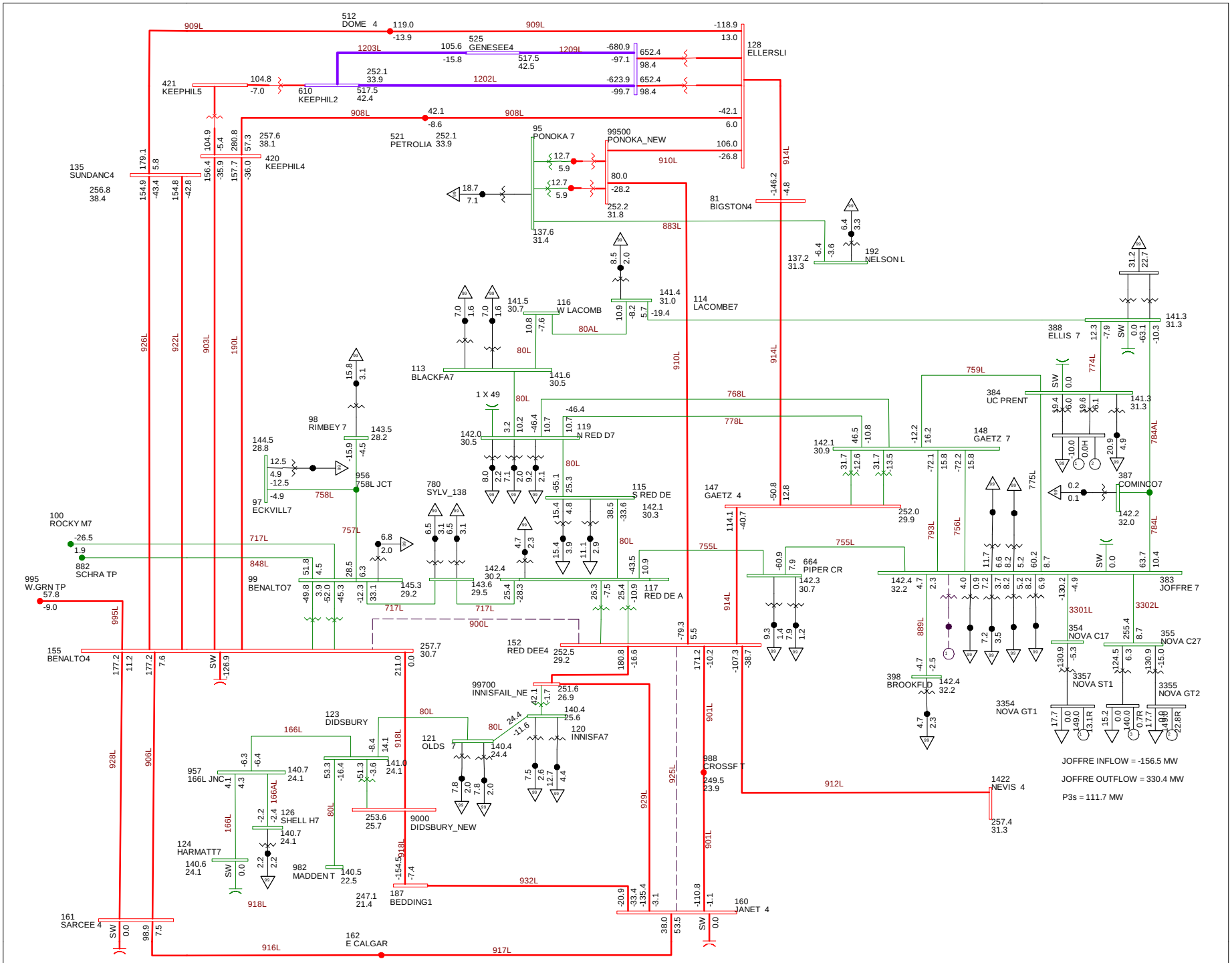
RED DEER REGION STUDY

2012 SUMMER LIGHT BASE CASE REVISION 6.5

FIG 2012-ALT2-LOAD-SL-C7-9: 717L(BENALTO 17S TO SYLVAN LAKE 717L(RED DEER 63S TO SYLVAN LAKE 580S) OUTAGE
WED, MAR 02 2011 9:07

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR

D-2012-527

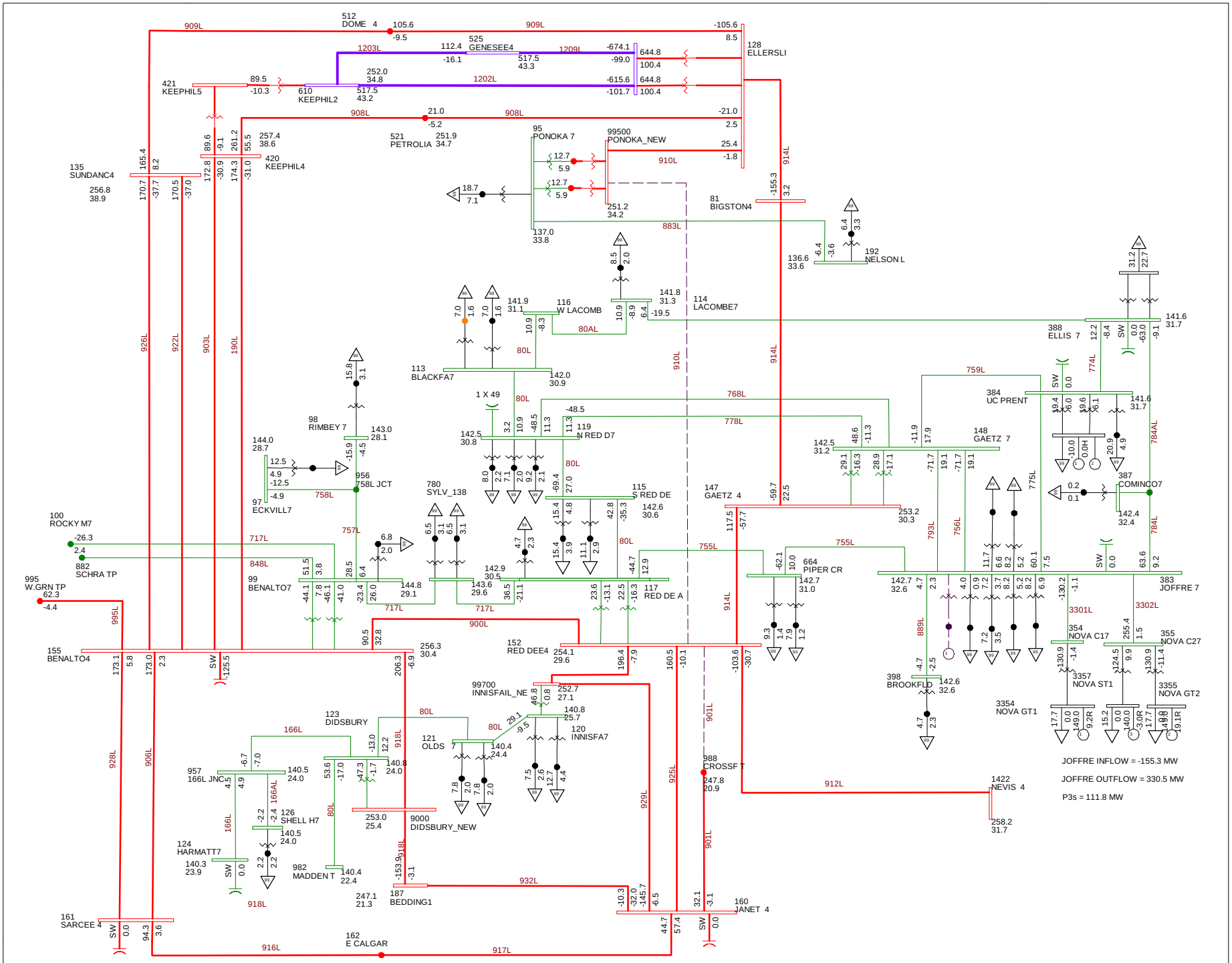


RED DEER REGION STUDY

2012 SUMMER LIGHT BASE CASE REVISION 6.5

FIG 2012-ALT2-LOAD-SL-C7-10: 900L(RED DEER 63S TO BENALTO 17
925L(RED DEER 63S TO JANET 74S) OUTAGE
WED, MAR 02 2011 9:07

D-2012-528



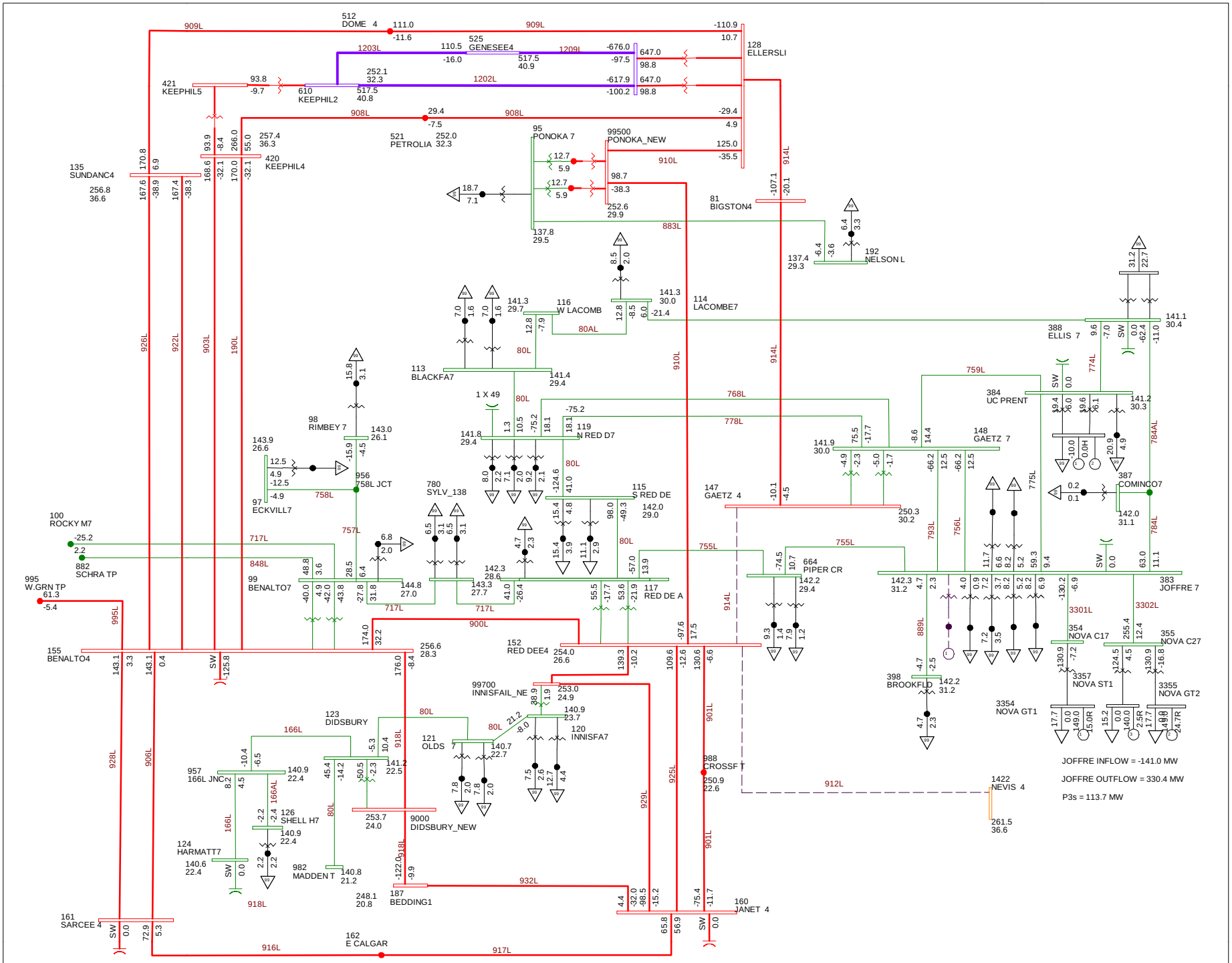
RED DEER REGION STUDY

2012 SUMMER LIGHT BASE CASE REVISION 6.5

FIG 2012-ALT2-LOAD-SL-C7-11: 901L(RED DEER 63S TO CROSSFIELD 910L(RED DEER 63S TO PONOKA 331S) OUTAGE
WED, MAR 02 2011 9:07

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-529



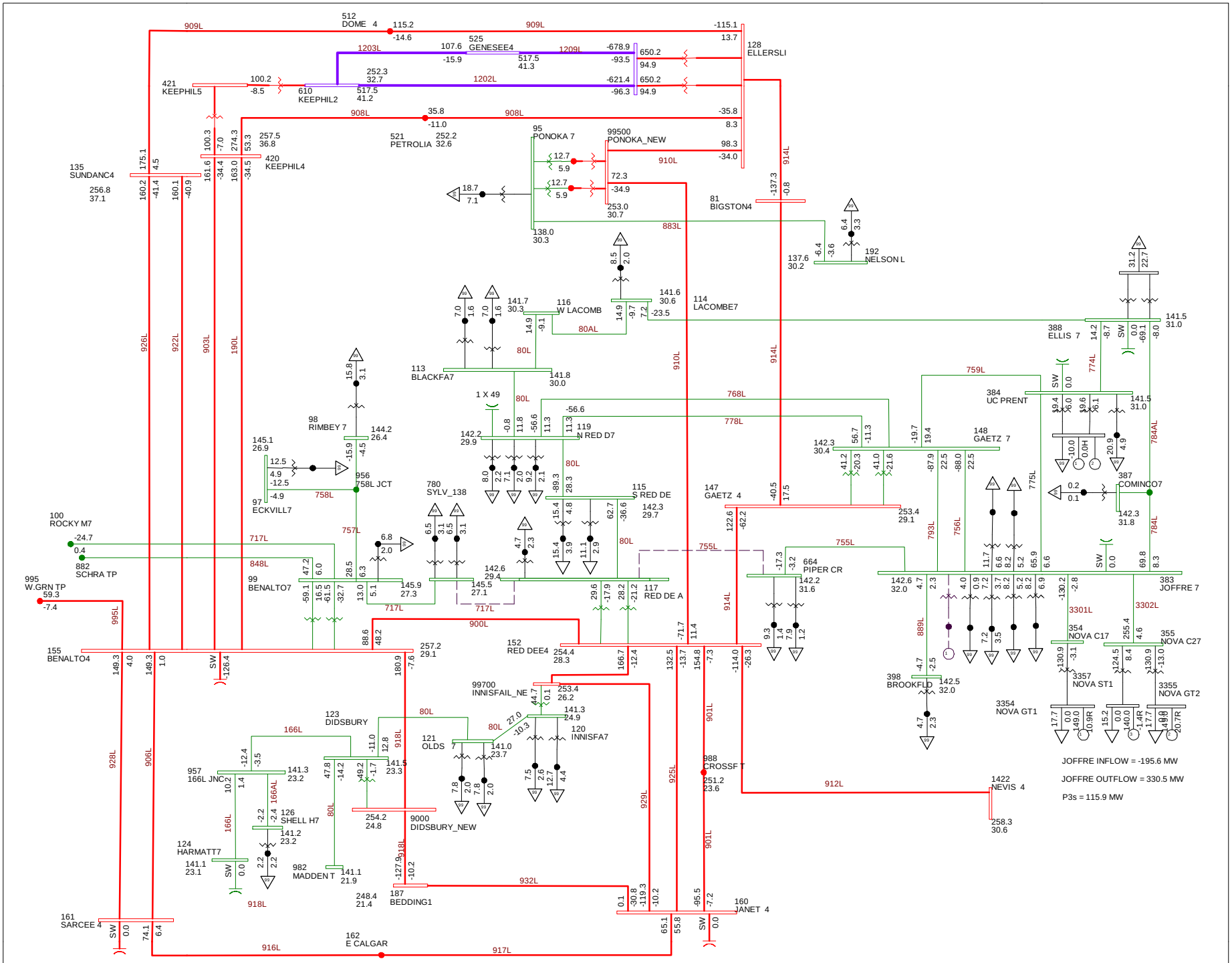
RED DEER REGION STUDY

2012 SUMMER LIGHT BASE CASE REVISION 6.5

FIG 2012-ALT2-LOAD-SL-C7-12: 914L(RED DEER 63S TO GAETZ 87S)
912L(RED DEER 63S TO NEVIS 766S) OUTAGE
WED, MAR 02 2011 9:07

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-530



RED DEER REGION STUDY

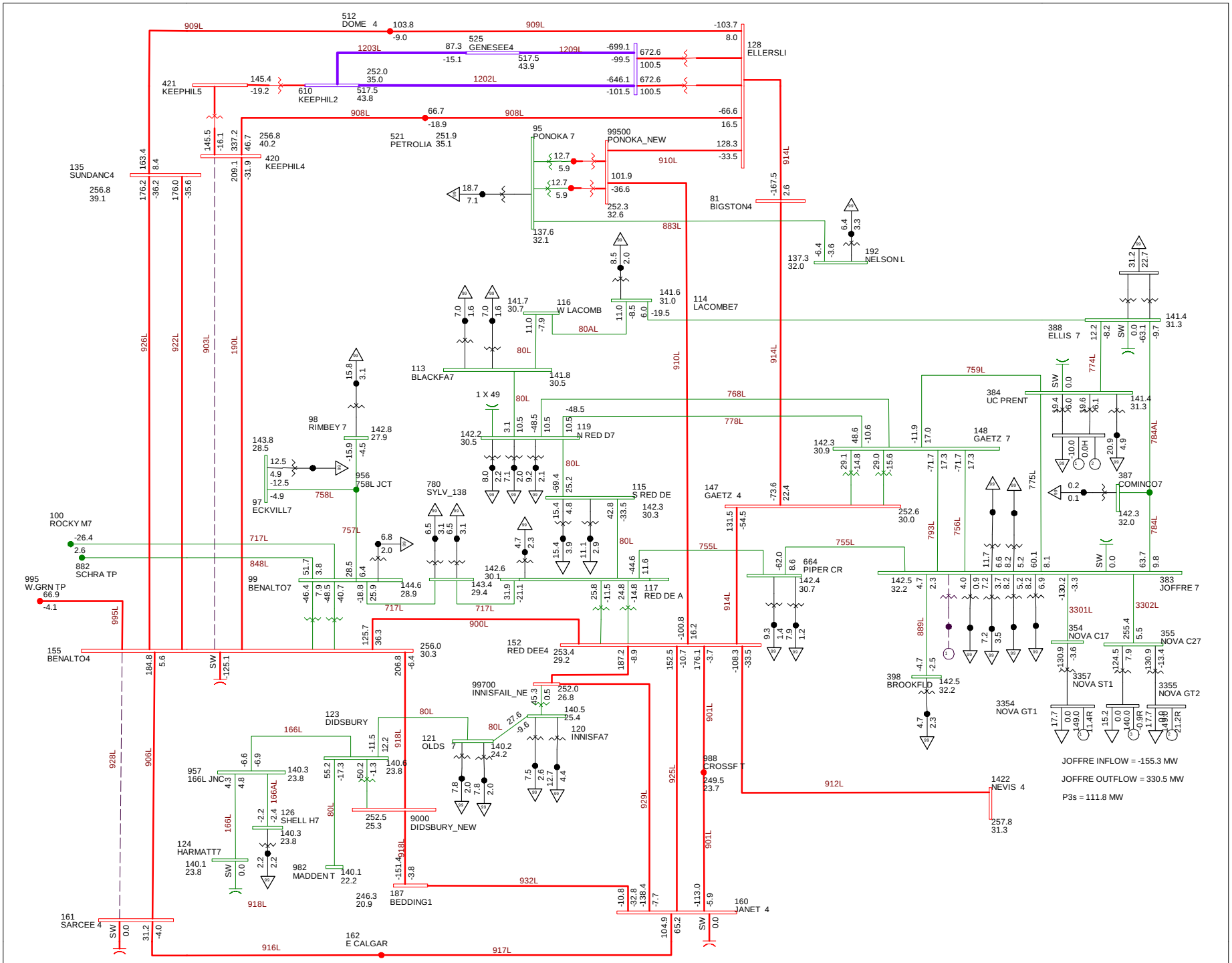
2012 SUMMER LIGHT BASE CASE REVISION 6.5

FIG 2012-ALT2-LOAD-SL-C7-13: 755L(RED DEER 63S TO PIPER CR. 717L(RED DEER 63S TO SYLVAN LAKE 580S) OUTAGE
WED, MAR 02 2011 9:07

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR

<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-531



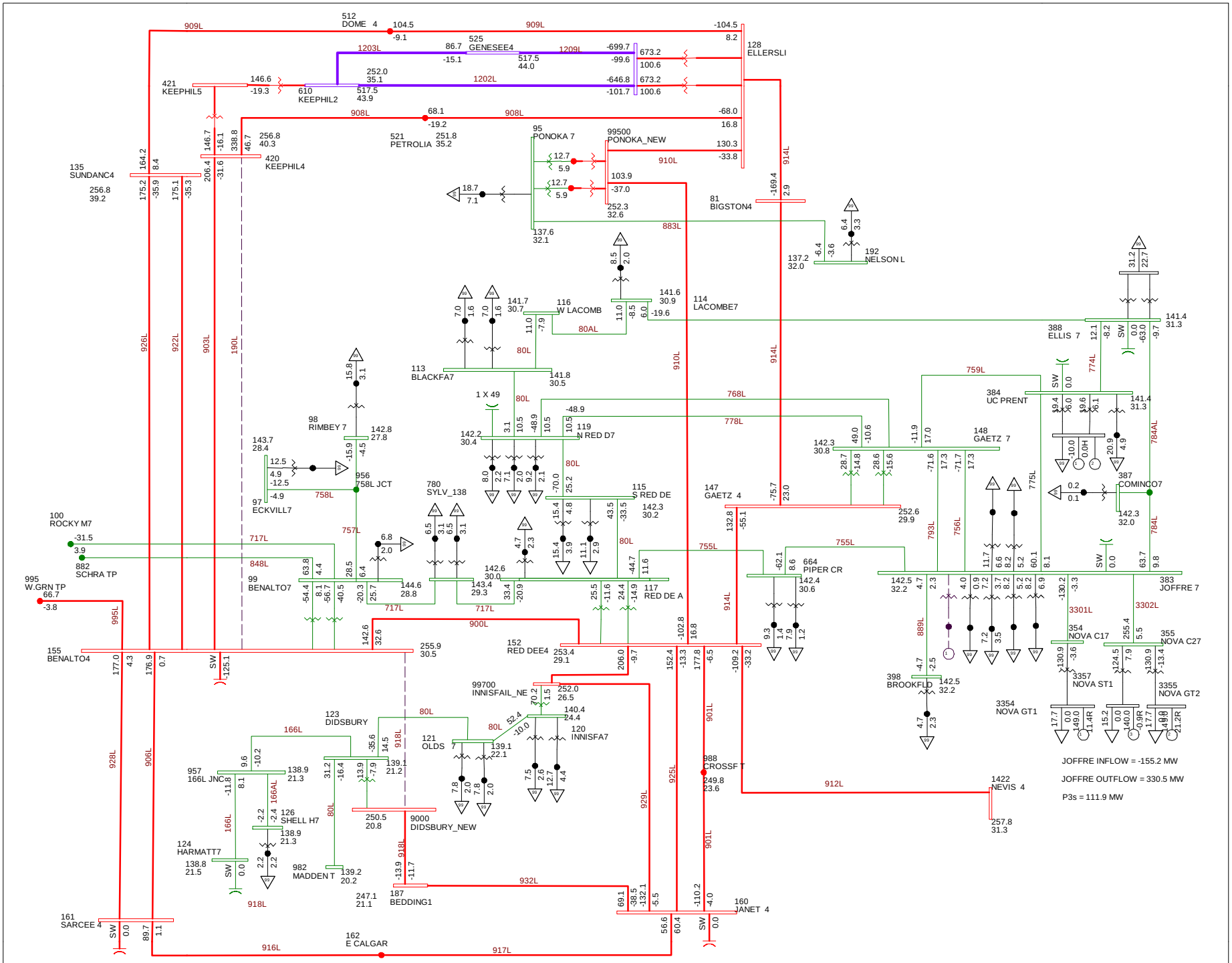
RED DEER REGION STUDY

2012 SUMMER LIGHT BASE CASE REVISION 6.5

FIG 2012-ALT2-LOAD-SL-C7-14: 903L(BENALTO 17S TO KEEPHILLS 3 928L(BENALTO 17S TO SARCEE 42S) OUTAGE
WED, MAR 02 2011 9:07

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-532



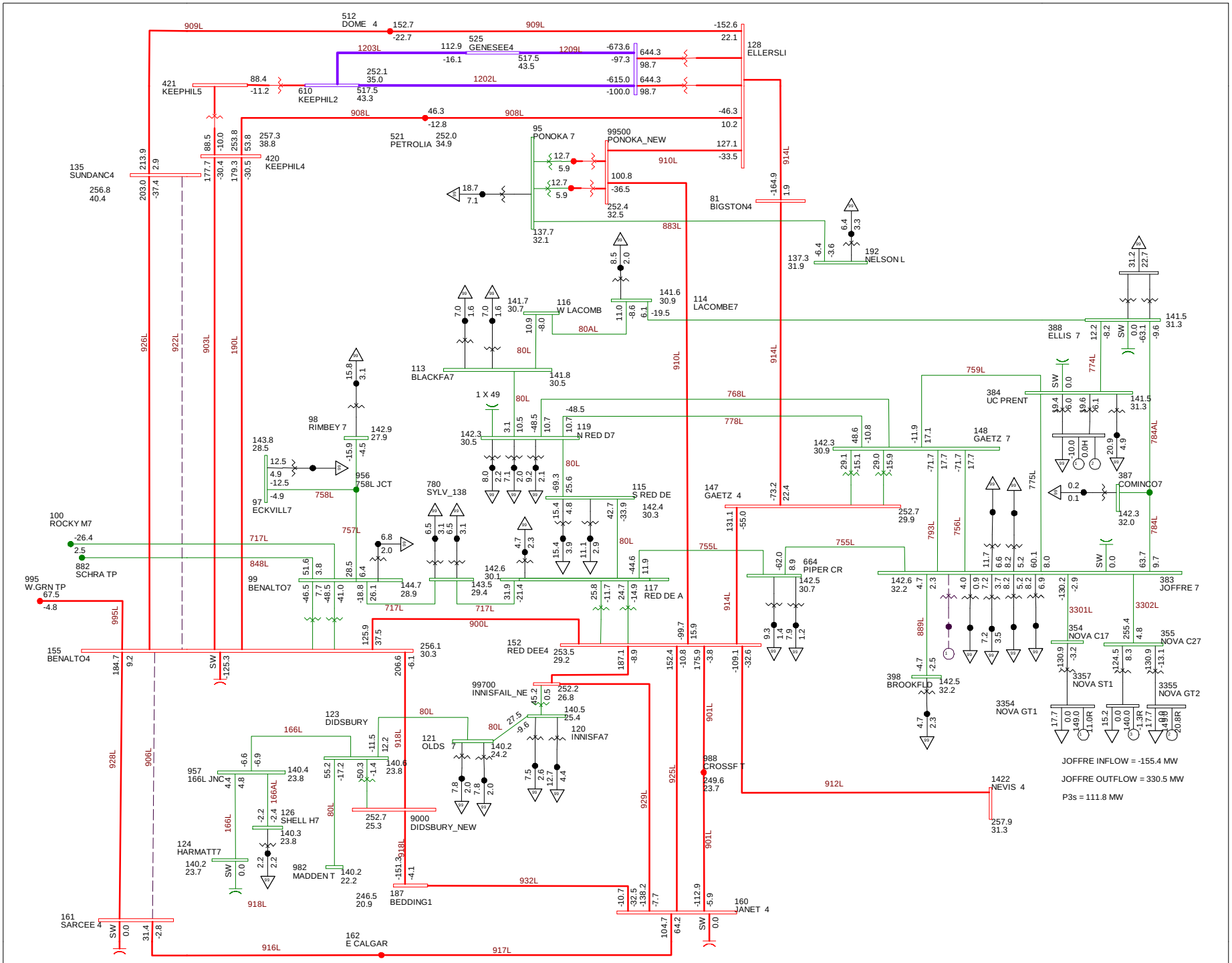
RED DEER REGION STUDY

2012 SUMMER LIGHT BASE CASE REVISION 6.5

FIG 2012-ALT2-LOAD-SL-C7-15: 190L(BENALTO 17S TO KEEPHILLS 3 918L(BENALTO 17S TO DIDSBURY 152S) OUTAGE
WED, MAR 02 2011 9:07

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-533



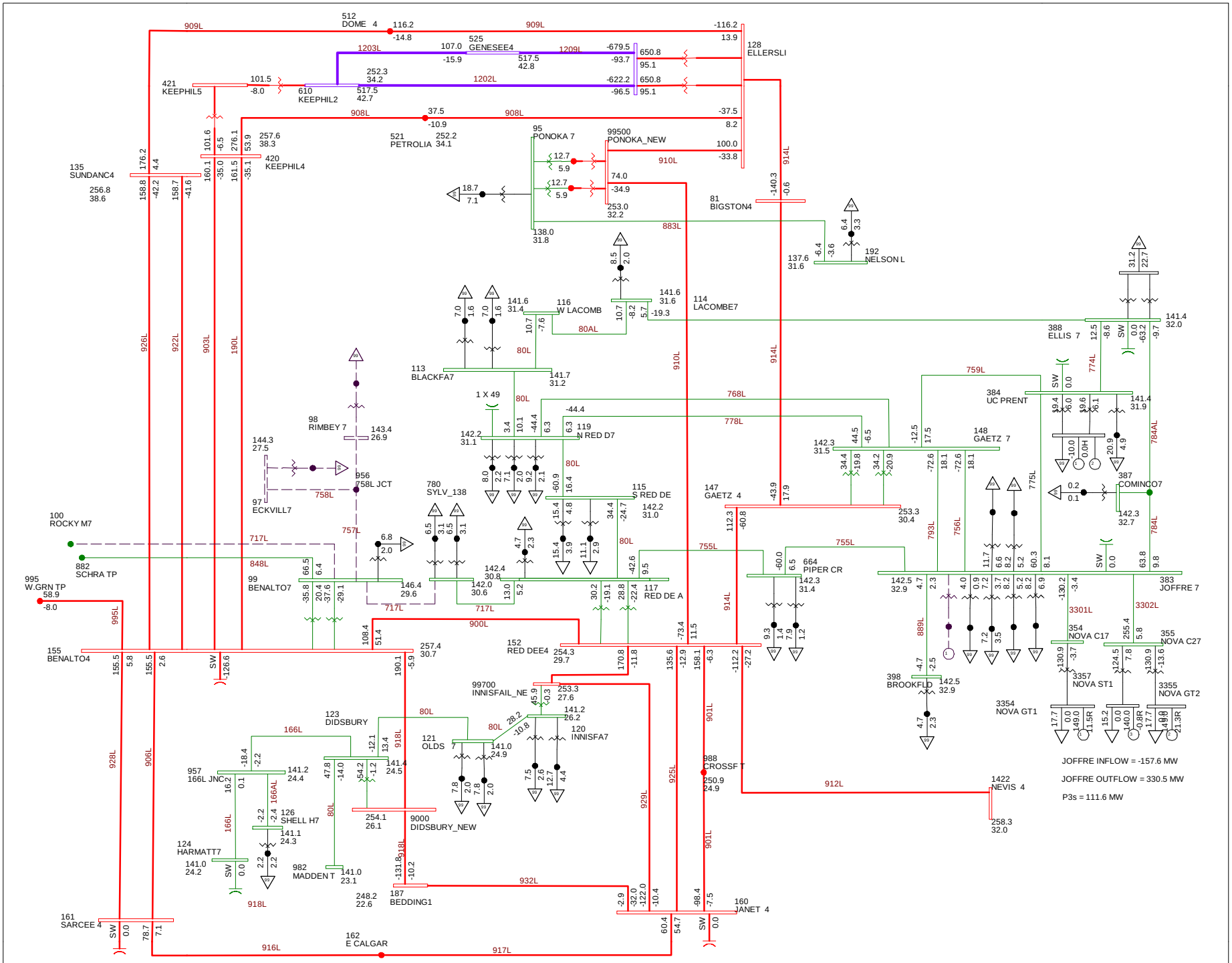
RED DEER REGION STUDY

2012 SUMMER LIGHT BASE CASE REVISION 6.5

FIG 2012-ALT2-LOAD-SL-C7-16: 922L(BENALTO 17S TO SUNDANCE 31
906L(BENALTO 17S TO SARCEE 42S) OUTGAE
WED, MAR 02 2011 9:07

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-534



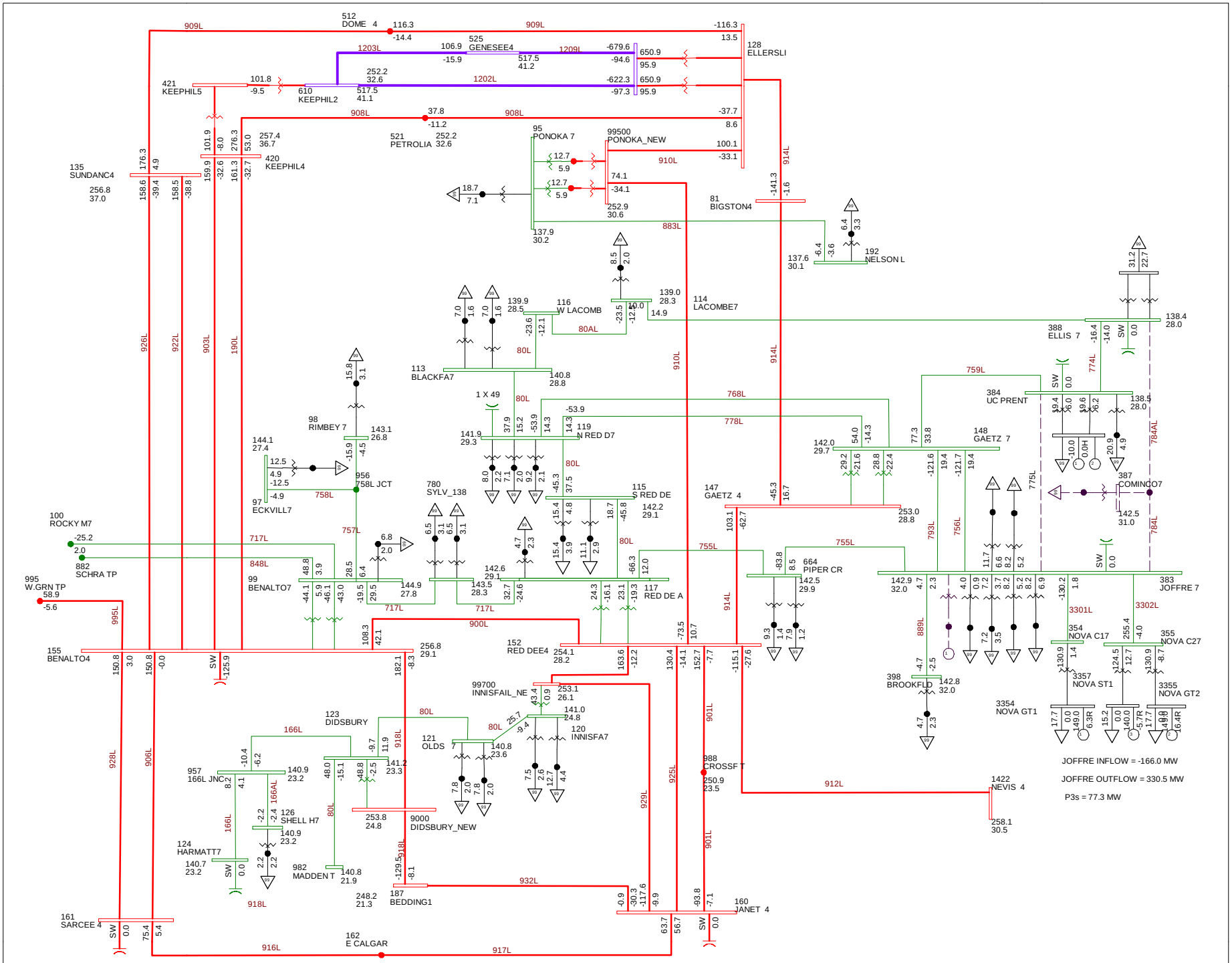
RED DEER REGION STUDY

2012 SUMMER LIGHT BASE CASE REVISION 6.5

FIG 2012-ALT2-LOAD-SL-C7-17: 757L(BENALTO 17S THROUGH ECKVIL 717L(BENALTO 17S TO SYLVAN LAKE 580S & 717L BENALTO 17S TO R
WED, MAR 02 2011 9:07

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-535



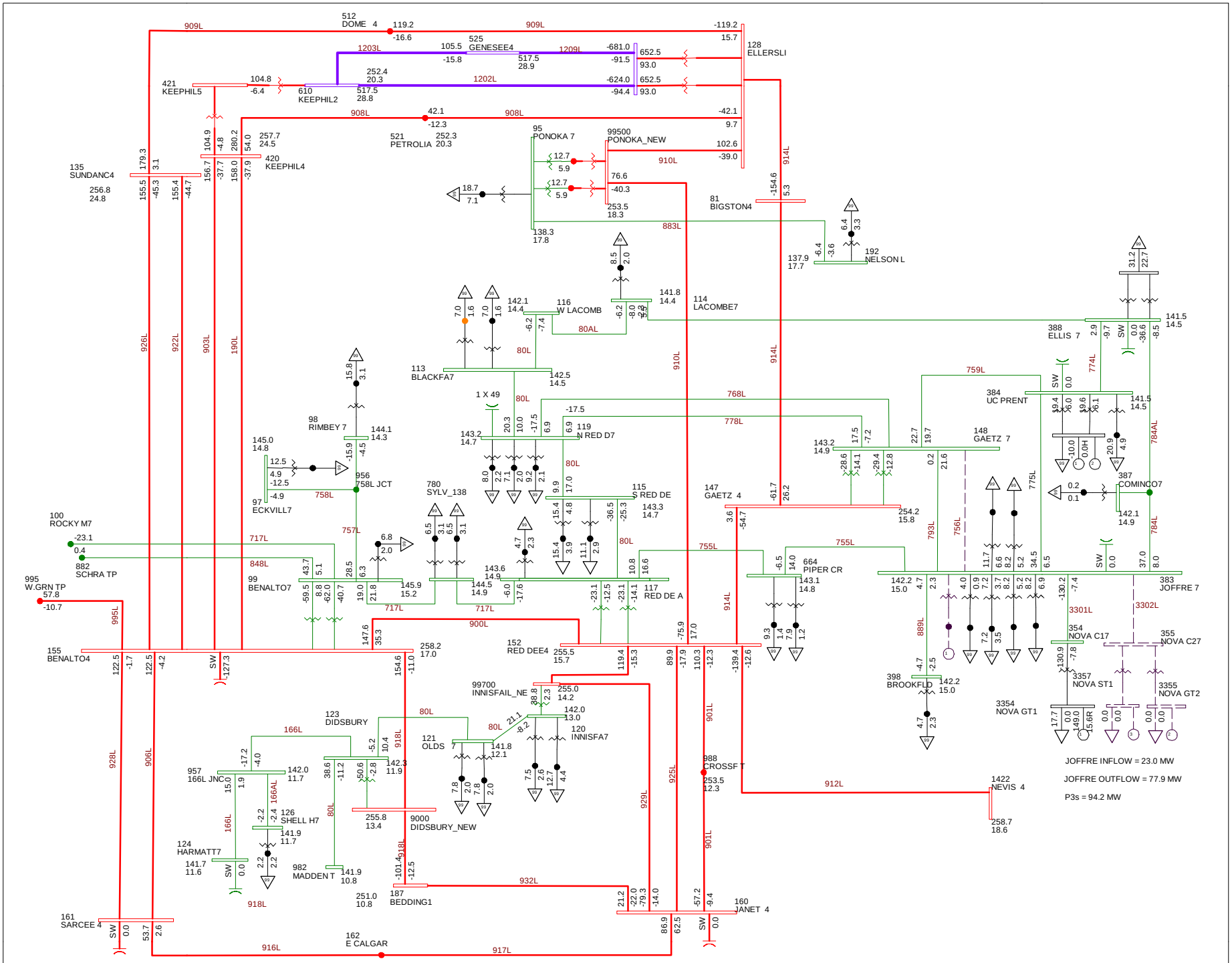
RED DEER REGION STUDY

2012 SUMMER LIGHT BASE CASE REVISION 6.5

FIG 2012-ALT2-LOAD-SL-C7-18: 784L(JOFFRE 535S TO HAYNES 482S
775L(JOFFRE 535S TO PRENTISS 276S) OUTAGE
WED, MAR 02 2011 9:07

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-536



RED DEER REGION STUDY

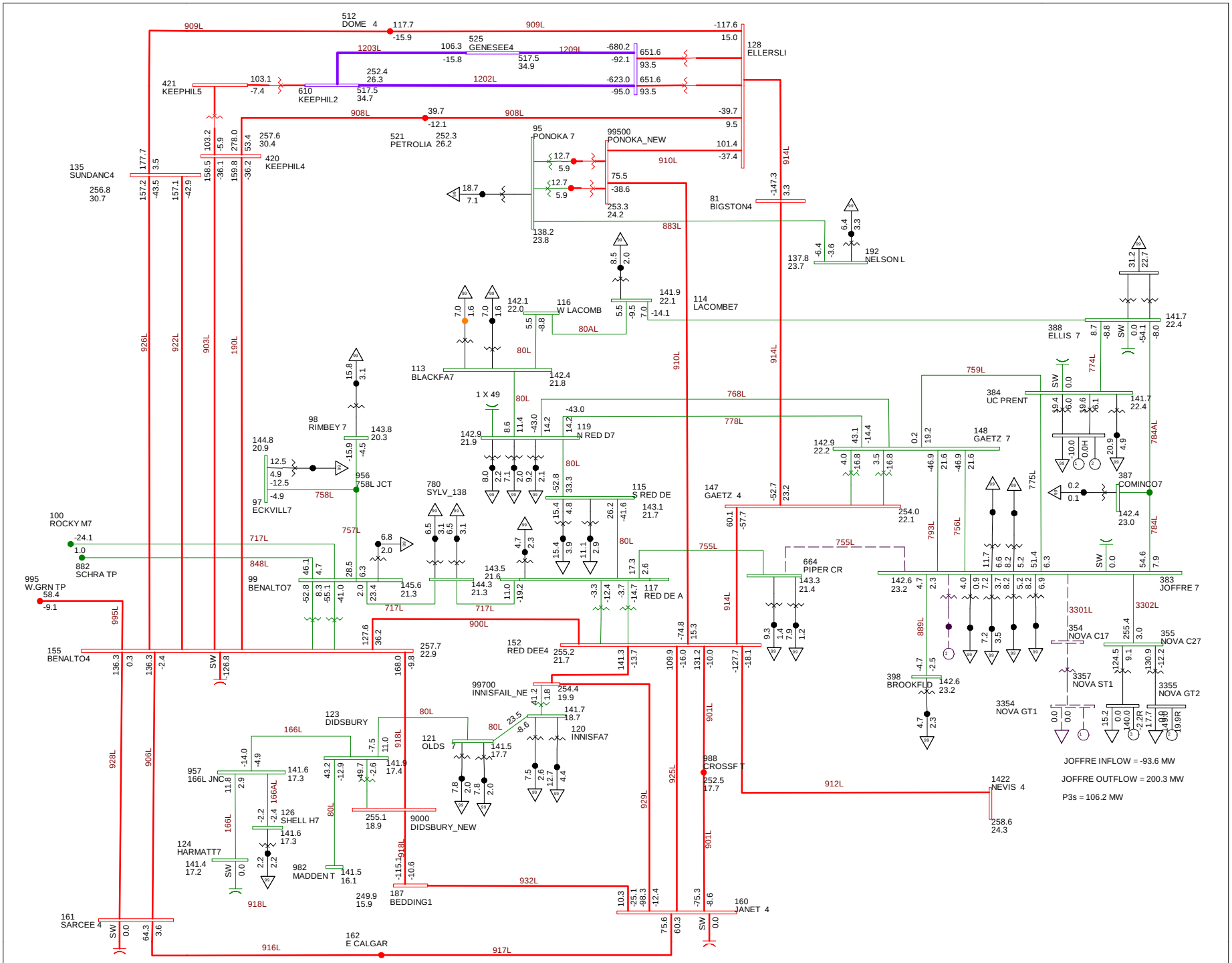
2012 SUMMER LIGHT BASE CASE REVISION 6.5

FIG 2012-ALT2-LOAD-SL-C7-19: 756L(JOFFRE 535S TO GAETZ 87S)
1330L(JOFFRE 535S TO NOVA 355S) OUTAGE
WED, MAR 02 2011 9:07

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR

<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-537



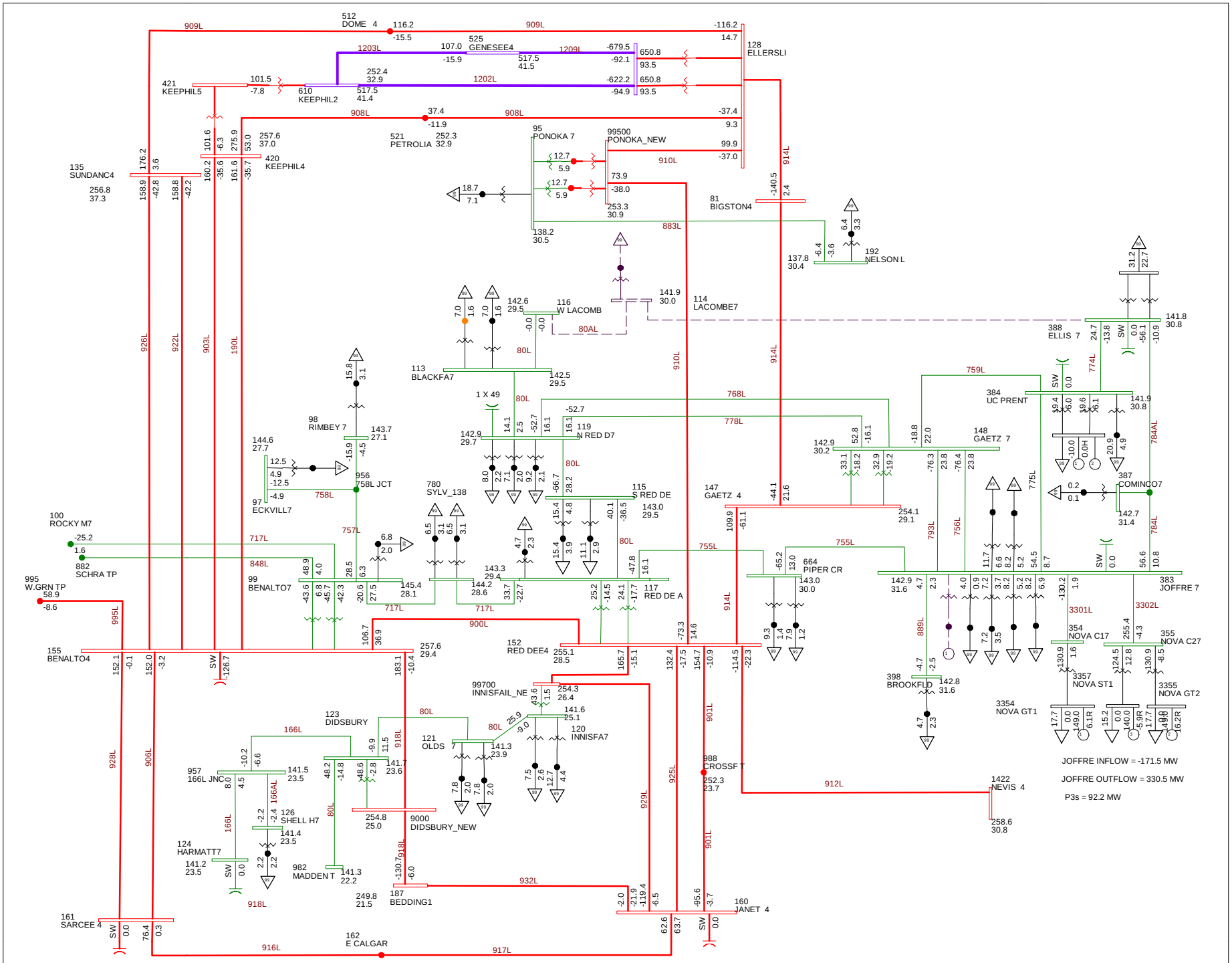
RED DEER REGION STUDY

2012 SUMMER LIGHT BASE CASE REVISION 6.5

FIG 2012-ALT2-LOAD-SL-C7-20: 755L(JOFFRE 535S TO PIPER CREEK 1330L(JOFFRE 535S TO NOVA 355S) OUTAGE
WED, MAR 02 2011 9:07

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-538



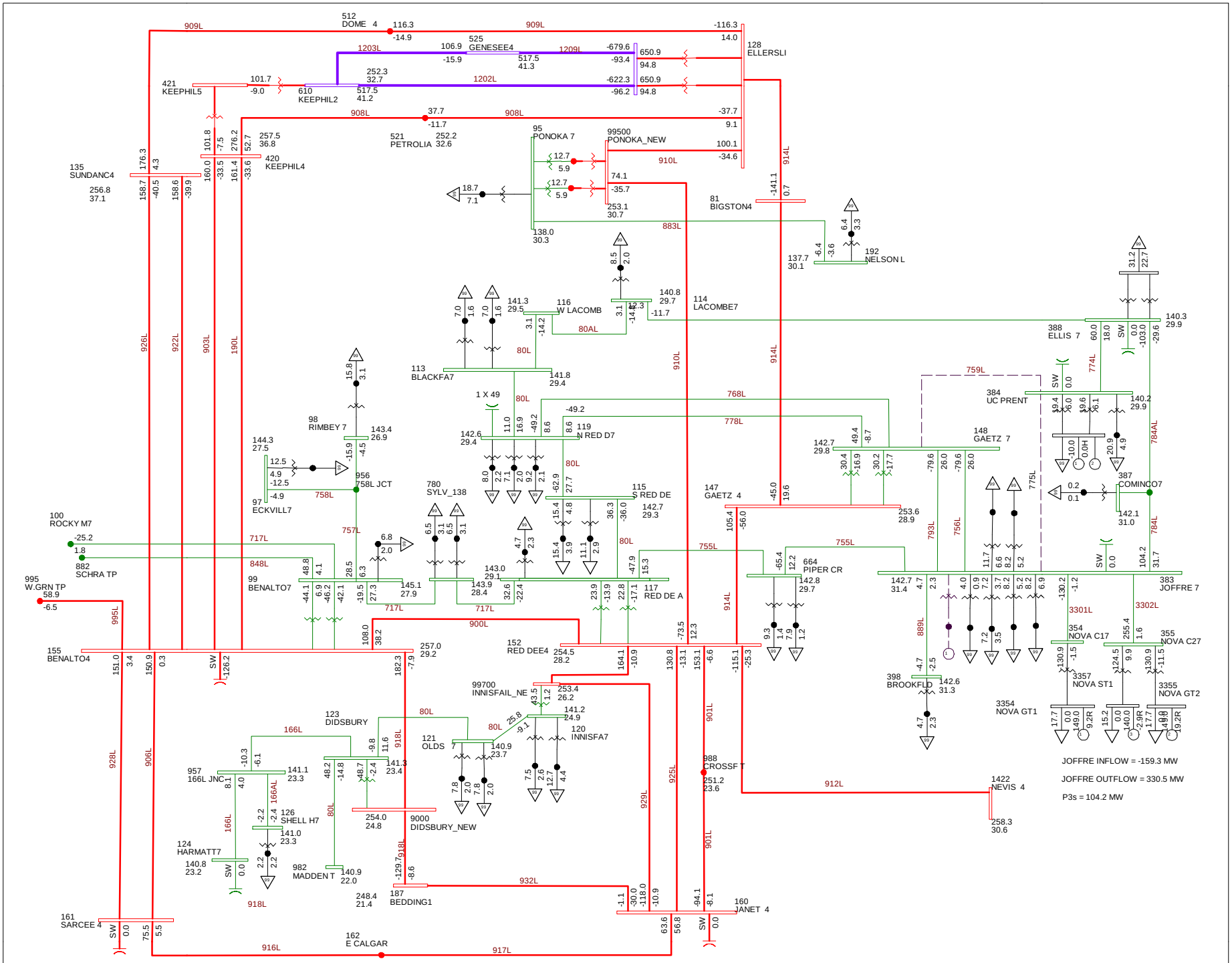
RED DEER REGION STUDY

2012 SUMMER LIGHT BASE CASE REVISION 6.5

FIG 2012-ALT2-LOAD-SL-C7-21: 80AL(N.E.LACOMBE 212S TO W. LAC NEW LINE(N.E.LACOMBE 212S TO ELLIS 332S) OUTAGE
WED, MAR 02 2011 9:07

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-539



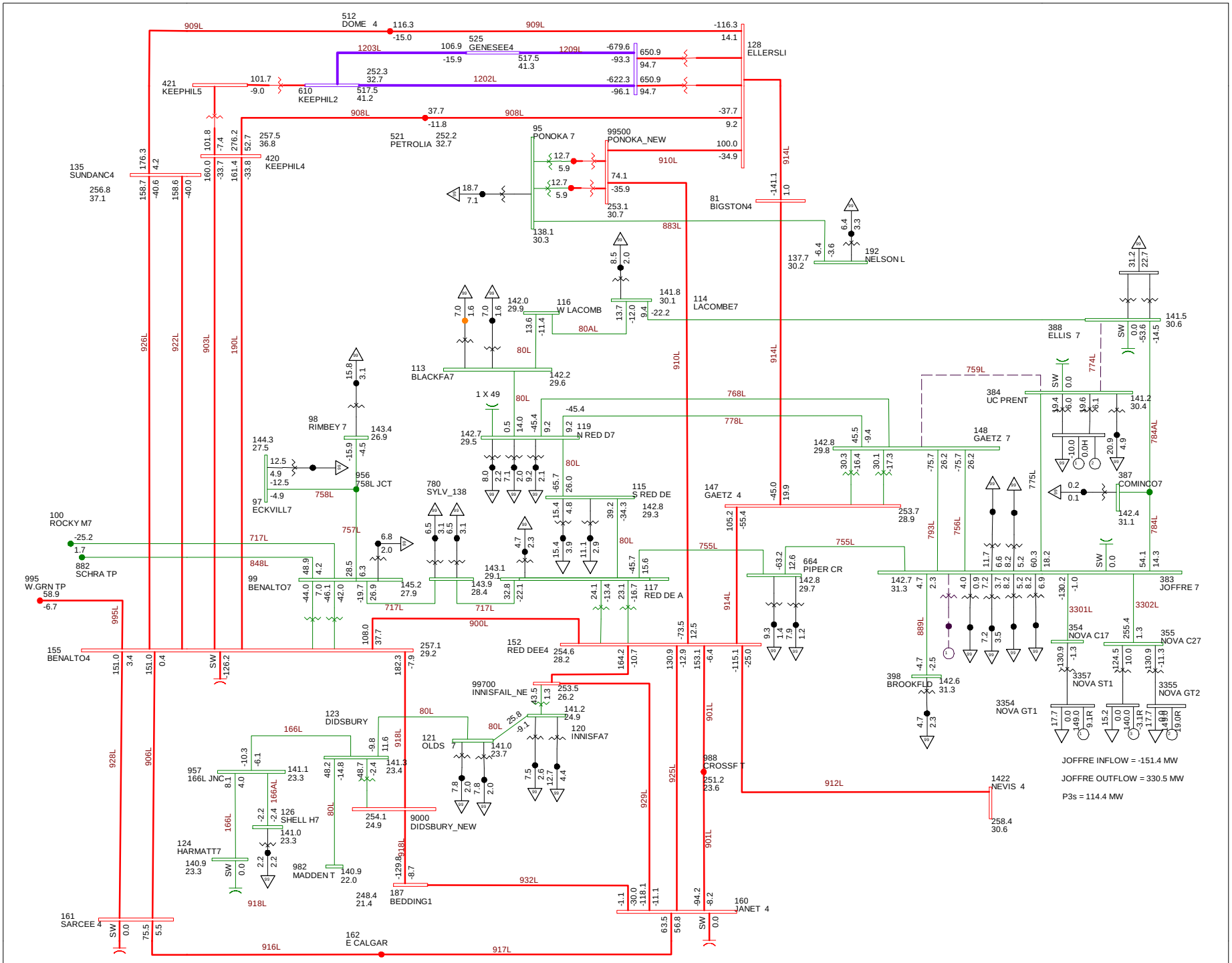
RED DEER REGION STUDY

2012 SUMMER LIGHT BASE CASE REVISION 6.5

FIG 2012-ALT2-LOAD-SL-C7-22: 775L(PRENTISS 276S TO JOFFRE 53
759L(PRENTISS 276S TO GAETZ 87S) OUTAGE
WED, MAR 02 2011 9:07

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-540



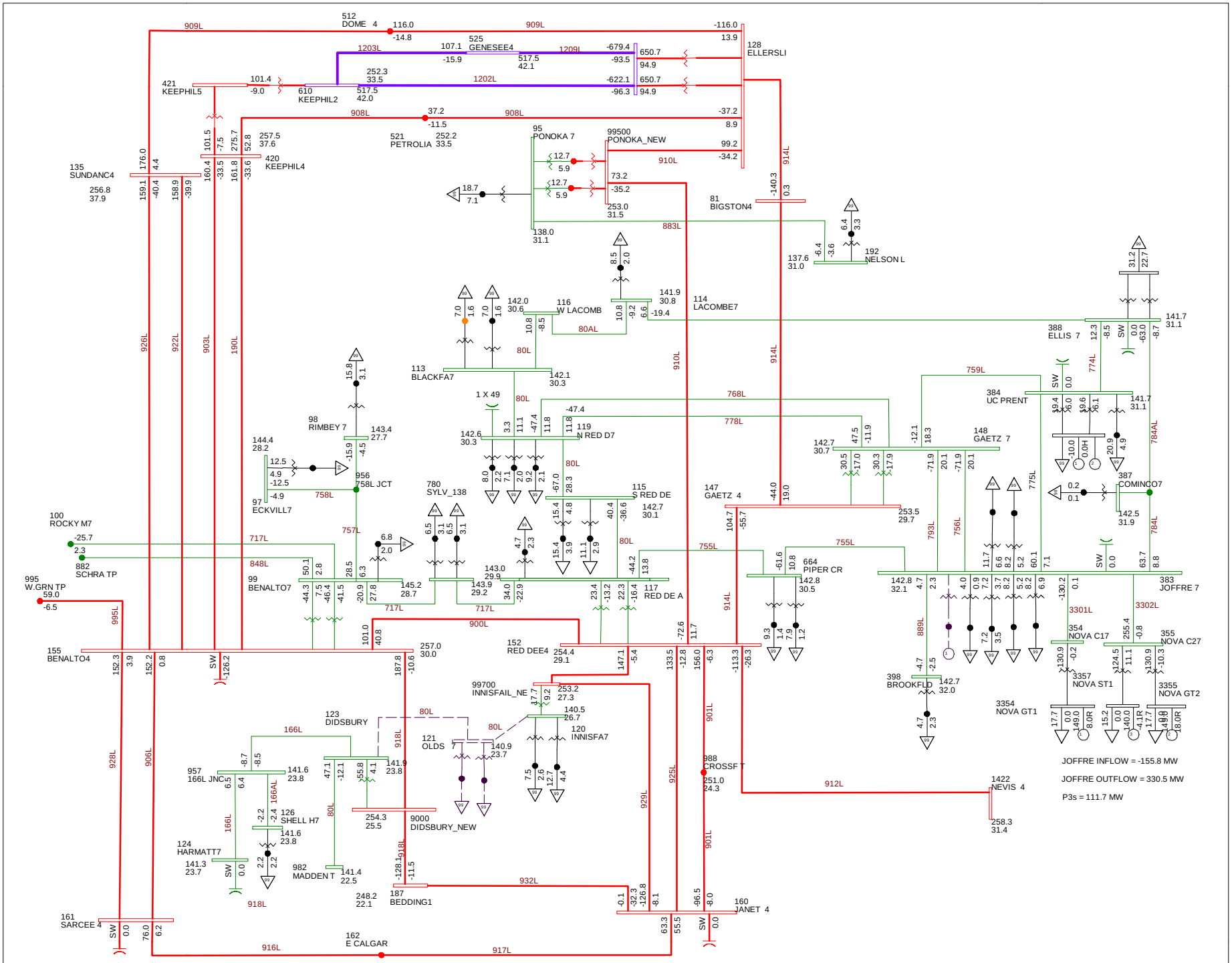
RED DEER REGION STUDY

2012 SUMMER LIGHT BASE CASE REVISION 6.5

FIG 2012-ALT2-LOAD-SL-C7-23: 774L(PRENTISS 276S TO ELLIS 332 759L(PRENTISS 276S TO GAETZ 87S) OUTAGE
WED, MAR 02 2011 9:07

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-541



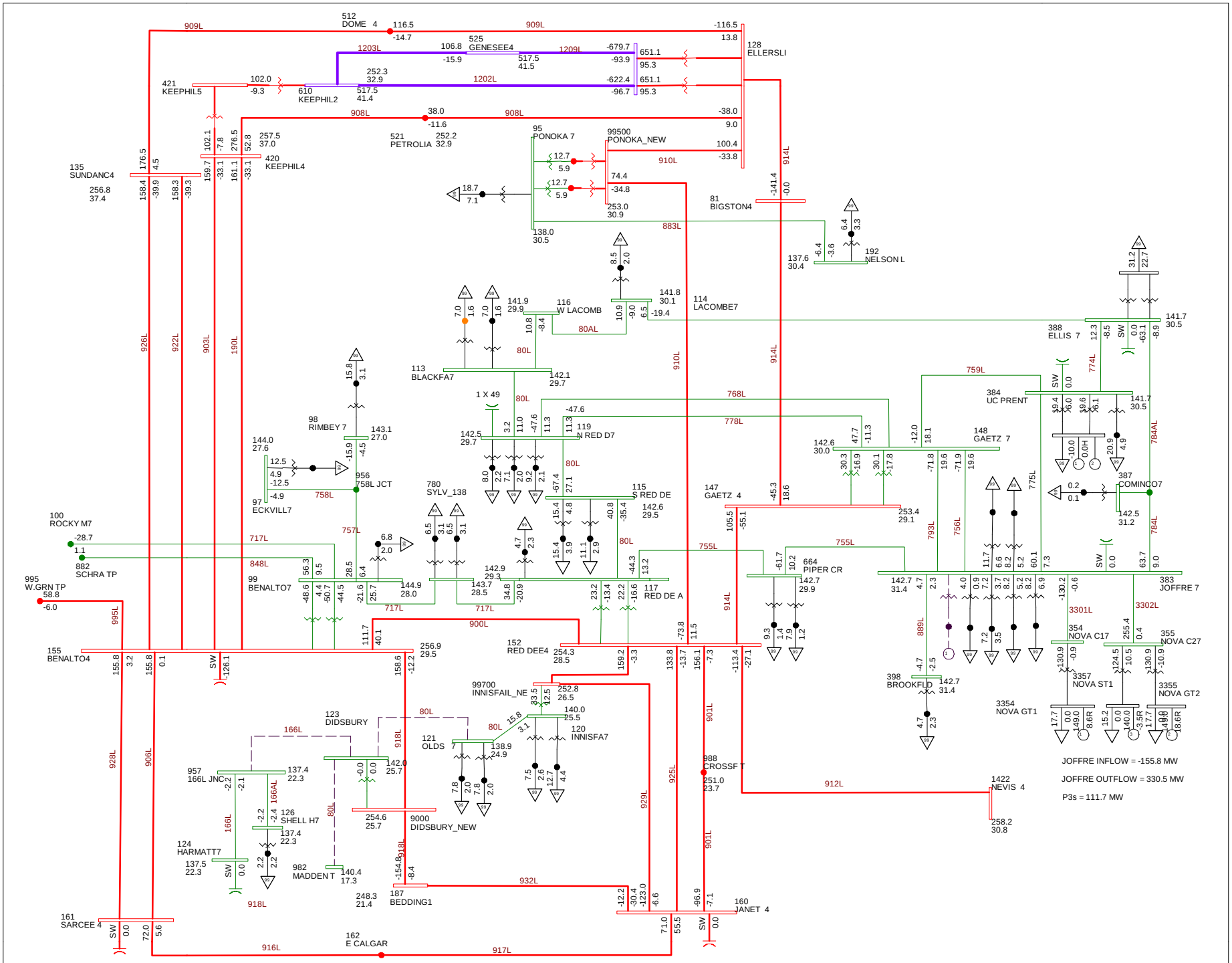
RED DEER REGION STUDY

2012 SUMMER LIGHT BASE CASE REVISION 6.5

FIG 2012-ALT2-LOAD-SL-C7-24: 80L(OLDS 55S VIA INNISFAIL 214S 80L(OLDS 55S TO DIDSBURY 152S) OUTAGE
WED, MAR 02 2011 9:07

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-542



RED DEER REGION STUDY

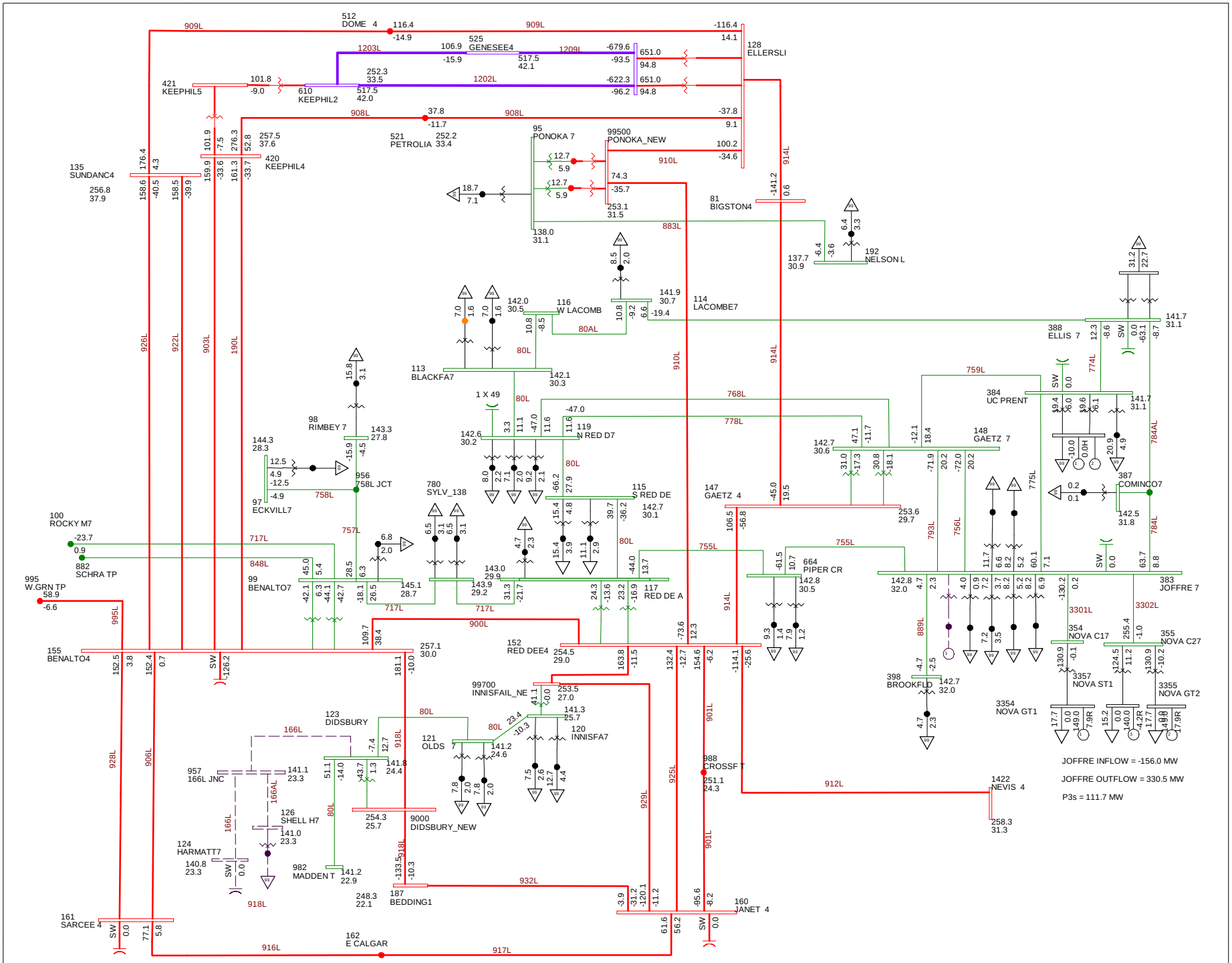
2012 SUMMER LIGHT BASE CASE REVISION 6.5

FIG 2012-ALT2-LOAD-SL-C7-25: 80L(OLDS 55S TO DIDSBURY 152S)
80L(DIDSBURY 152S TO TO MADDEN 373S) & 166L(DIDSBURY 152S T
WED, MAR 02 2011 9:07

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR

<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-543



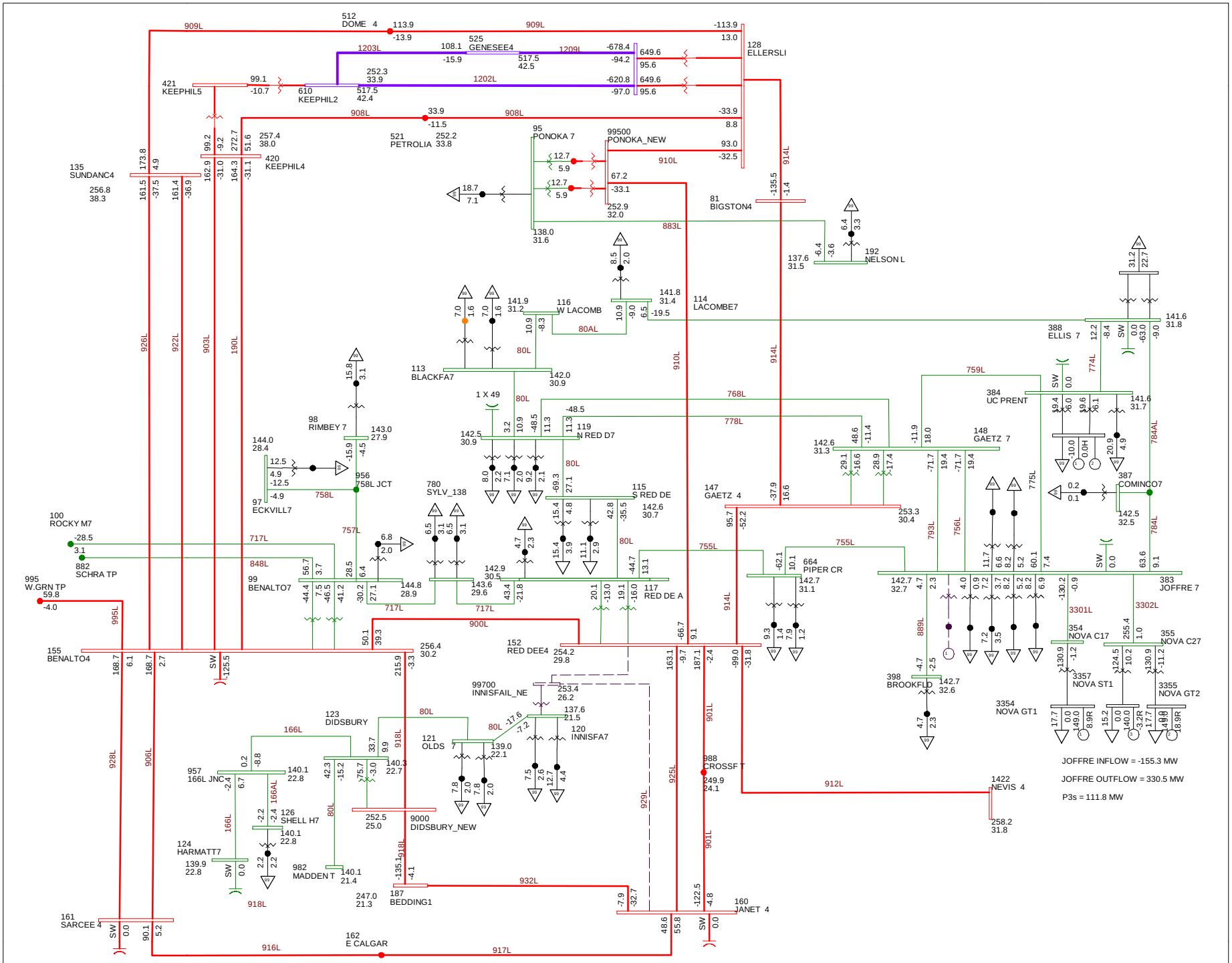
RED DEER REGION STUDY

2012 SUMMER LIGHT BASE CASE REVISION 6.5

FIG 2012-ALT2-LOAD-SL-C7-26: 166L(HARMATTAN 256S TO SHELL HA 166L(HARMATTAN 256S TO SHELL EAGLE CR. 412S TO SUNDRE 575S)
WED, MAR 02 2011 9:07

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-544



RED DEER REGION STUDY

2012 SUMMER LIGHT BASE CASE REVISION 6.5

FIG 2012-ALT2-LOAD-SL-C7-27: 929L(RED DEER 63S TO INNISFAIL 929L(INNISFAIL 214S TO JANET 74S) OUTAGE
WED, MAR 02 2011 9:07

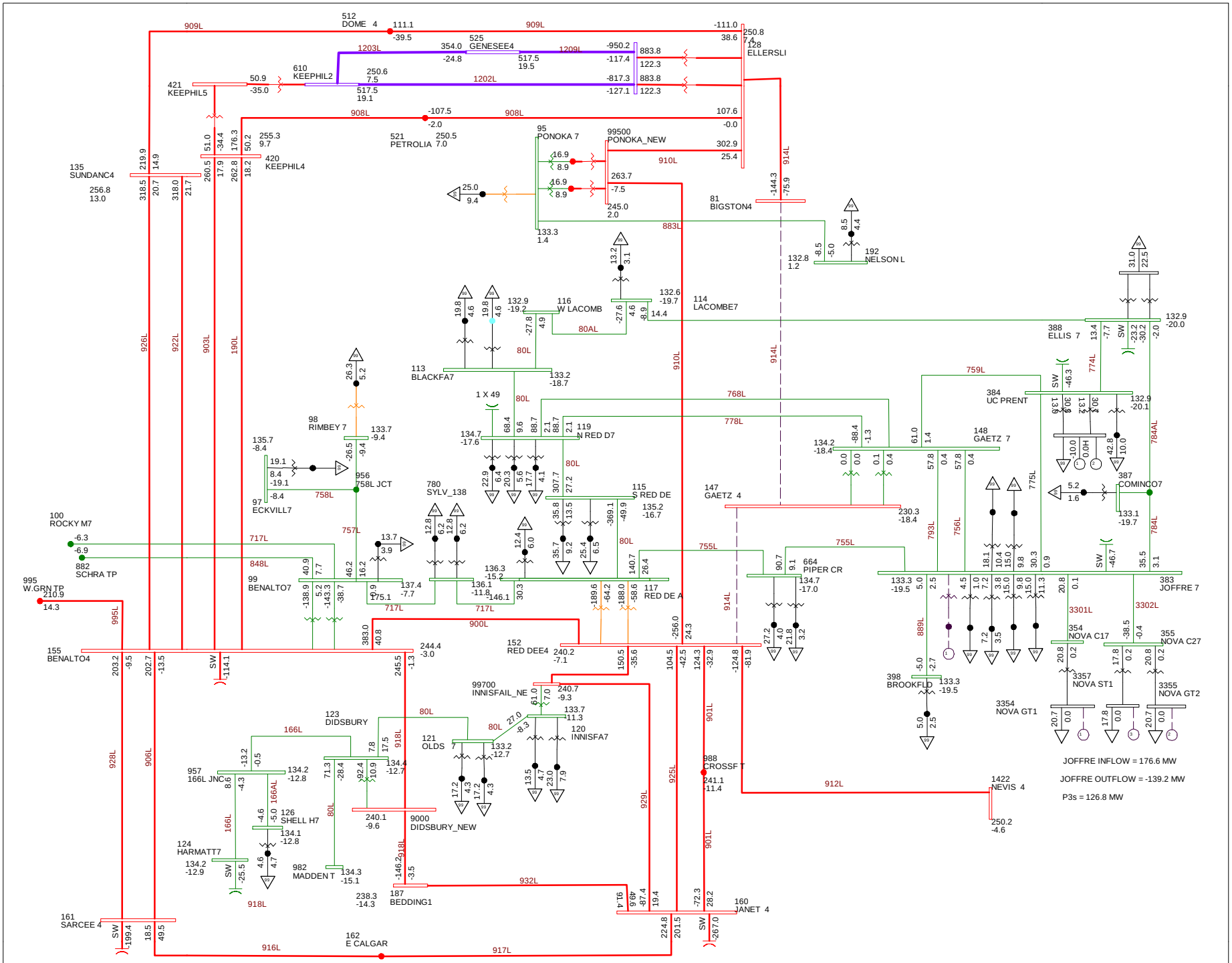
Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-545

Table D-2012-14: Summary of 2012 Load Adequacy Power Flow Analysis - Alternative 2 Category C7 (WP with Nova OFF)

Figure No.	Contingency	Overloaded Element	Percent Overload	Other System Performance Concerns	SPS
Winter Peak					
Fig 2012-Alt2-Load-WP-C7-1 (Nova OFF)/ Fig 2012-Alt2-Load-WP-C7-1-1(Nova OFF)	914L(Gaetz 87S to Red Deer 63S) 914L(Gaetz 87S to Bigstone 86S)	138/240kV Transformer at Red Deer 63S	107%	None	Curtail load of Red Deer area by 10%
Fig 2012-Alt2-Load-WP-C7-2 (Nova OFF)	793L(Gaetz 87S to Joffre 535S) 778L(Gaetz 87S to N.Red Deer 217S)	None	N/A	None	None
Fig 2012-Alt2-Load-WP-C7-3 (Nova OFF)	778L(Gaetz 87S to N. Red Deer 217S) 759L(Gaetz 87S to Prentiss 276S)	None	N/A	None	None
Fig 2012-Alt2-Load-WP-C7-4 (Nova OFF)	80L(S. Red Deer 194S to N. Red Deer 217S) 80L(S. Red Deer 194S to Red Deer 63S)	None	N/A	None	None
Fig 2012-Alt2-Load-WP-C7-5 (Nova OFF)	80L(Blackfalds 198S to W. Lacombe 958S) 80L(Blackfalds 198S to N. Red Deer 217S)	None	N/A	None	None
Fig 2012-Alt2-Load-WP-C7-6 (Nova OFF)	80L(N. Red Deer 217S to Gaetz 87S) 80L(Blackfalds 198S to N. Red Deer 217S)	None	N/A	None	None
Fig 2012-Alt2-Load-WP-C7-7 (Nova OFF)	755L(Piper Cr. 274S to Red Deer 63S) 755L(Piper Cr. 274S to Joffre 535S)	None	N/A	None	None
Fig 2012-Alt2-Load-WP-C7-8 (Nova OFF)	New Line (N.E.Lacombe 212S to Ellis 332S) 784L(Ellis 332S to Haynes 482S to Joffre 535S)	None	N/A	None	None
Fig 2012-Alt2-Load-WP-C7-9 (Nova OFF)	717L(Benalto 17S to Sylvan Lake 580S) 717L(Red Deer 63S to Sylvan Lake 580S)	None	N/A	None	None
Fig 2012-Alt2-Load-WP-C7-10 (Nova OFF)	900L(Red Deer 63S to Benalto 17S) 925L(Red Deer 63S to Janet 74S)	None	N/A	None	None
Fig 2012-Alt2-Load-WP-C7-11 (Nova OFF)	901L(Red Deer 63S to Crossfield 64S) 910L(Red Deer 63S to Ponoka 331S)	None	N/A	None	None
Fig 2012-Alt2-Load-WP-C7-12 (Nova OFF)	914L(Red Deer 63S to Gaetz 87S) 912L(Red Deer 63S to Nevis 766S)	None	N/A	None	None
Fig 2012-Alt2-Load-WP-C7-13 (Nova OFF)	755L(Red Deer 63S to Piper Cr. 274S) 717L(Red Deer 63S to Sylvan Lake 580S)	None	N/A	None	None

Figure No.	Contingency	Overloaded Element	Percent Overload	Other System Performance Concerns	SPS
Fig 2012-Alt2-Load-WP-C7-14 (Nova OFF)	903L(Benalto 17S to Keephills 320P) 928L(Benalto 17S to Sarcee 42S)	None	N/A	None	None
Fig 2012-Alt2-Load-WP-C7-15 (Nova OFF)	190L(Benalto 17S to Keephills 320P) 918L(Benalto 17S to Didsbury 152S)	None	N/A	None	None
Fig 2012-Alt2-Load-WP-C7-16 (Nova OFF)	922L(Benalto 17S to Sundance 310P) 906L(Benalto 17S to Sarcee 42S)	None	N/A	None	None
Fig 2012-Alt2-Load-WP-C7-17 (Nova OFF)	757L(Benalto 17S to Eckville 534S to Rimbey 297S) 717L(Benalto 17S to Sylvan Lake 580S) 717L (Benalto 17S to Rocky 262S)	None	N/A	None	None
Fig 2012-Alt2-Load-WP-C7-18 (Nova OFF)	784L(Joffre 535S to Haynes 482S to Ellis 332S) 775L(Joffre 535S to Prentiss 276S)	None	N/A	None	None
Fig 2012-Alt2-Load-WP-C7-19 (Nova OFF)	756L(Joffre 535S to Gaetz 87S) 1330L (Joffre 535S to Nova 355S	None	N/A	None	None
Fig 2012-Alt2-Load-WP-C7-20 (Nova OFF)	755L(Joffre 535S to Piper Creek 247S) 1330L(Joffre 535S to Nova 355S)	None	N/A	None	None
Fig 2012-Alt2-Load-WP-C7-21 (Nova OFF)	80AL(N.E.Lacombe 212S to W. Lacombe 958S) New line (N.E.Lacombe 212S to Ellis 332S)	None	N/A	None	None
Fig 2012-Alt2-Load-WP-C7-22 (Nova OFF)	775L(Prentiss 276S to Joffre 535S) 759L(Prentiss 276S to Gaetz 87S)	None	N/A	None	None
Fig 2012-Alt2-Load-WP-C7-23 (Nova OFF)	774L(Prentiss 276S to Ellis 332S) 759L(Prentiss 276S to Gaetz 87S)	None	N/A	None	None
Fig 2012-Alt2-Load-WP-C7-24 (Nova OFF)	80L(Olds 55S to Innisfail 214S) 80L(Olds 55S to Didsbury 152S)	None	N/A	None	None
Fig 2012-Alt2-Load-WP-C7-25 (Nova OFF)	80L(Olds 55S to Didsbury 152S) 80L(Didsbury 152S to Madden 373S) 166L(Didsbury 152S to Harmattan 256S)	None	N/A	None	None
Fig 2012-Alt2-Load-WP-C7-26 (Nova OFF)	166L(Harmattan 256S to Shell Harmattan 238S to Didsbury 152S) 166L(Harmattan 256S to Shell Eagle Cr. 412S to Sundre 575S)	None	N/A	None	None
Fig 2012-Alt2-Load-WP-C7-27 (Nova OFF)	929L(Red Deer 63S to Innisfail 214S) 929L(Innisfail 214S to Janet 74S) Outage	None	N/A	None	None



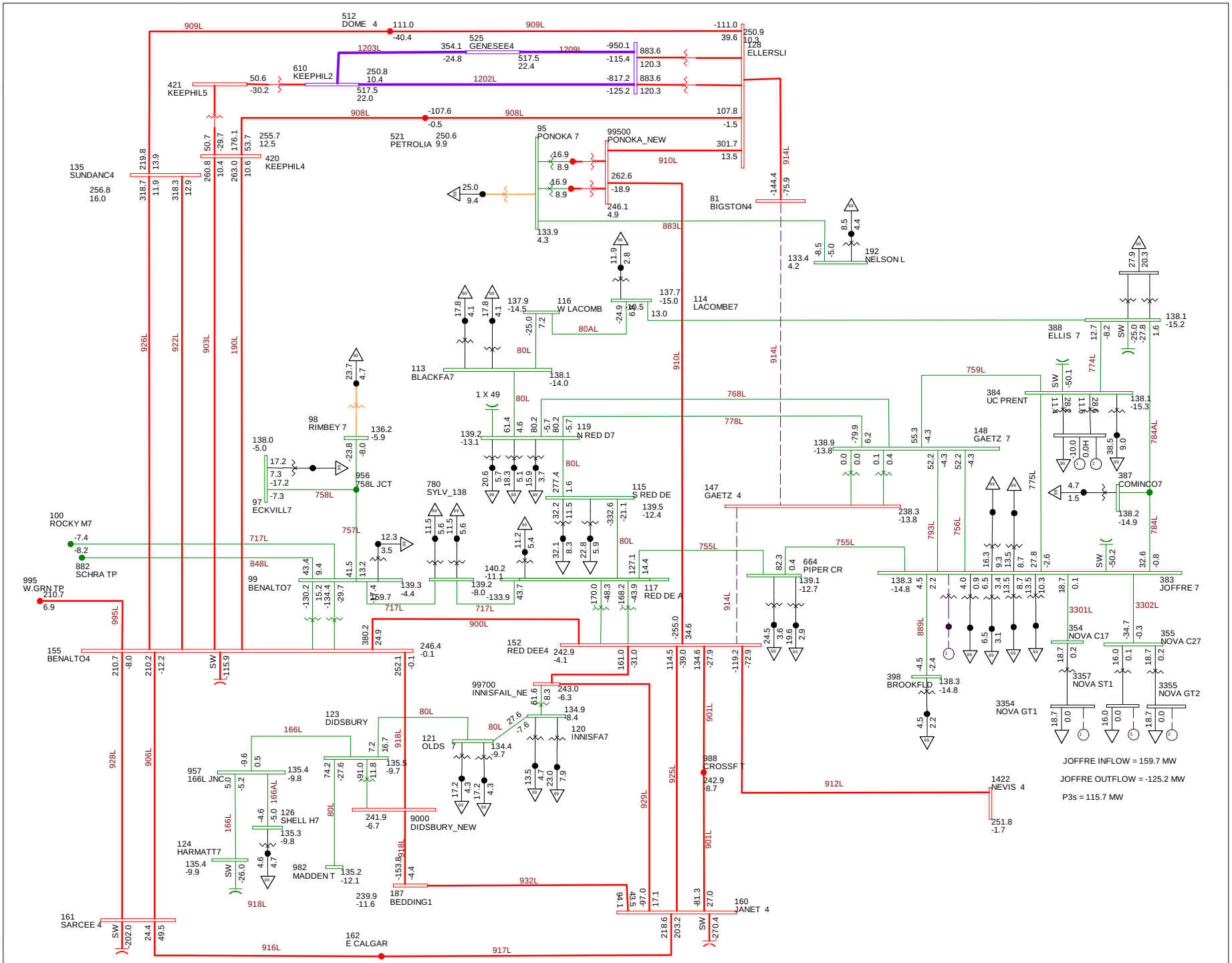
RED DEER REGION STUDY

2012 WINTER PEAK BASE CASE REVISION 6.5

FIG 2012-ALT2-LOAD-WP-C7-1: 914L(GAETZ 87S TO RED DEER 63S)
914L(GAETZ 87S TO BIGSTONE 86S) OUTAGE(NOVA OFF)
WED, MAR 02 2011 9:16

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-548



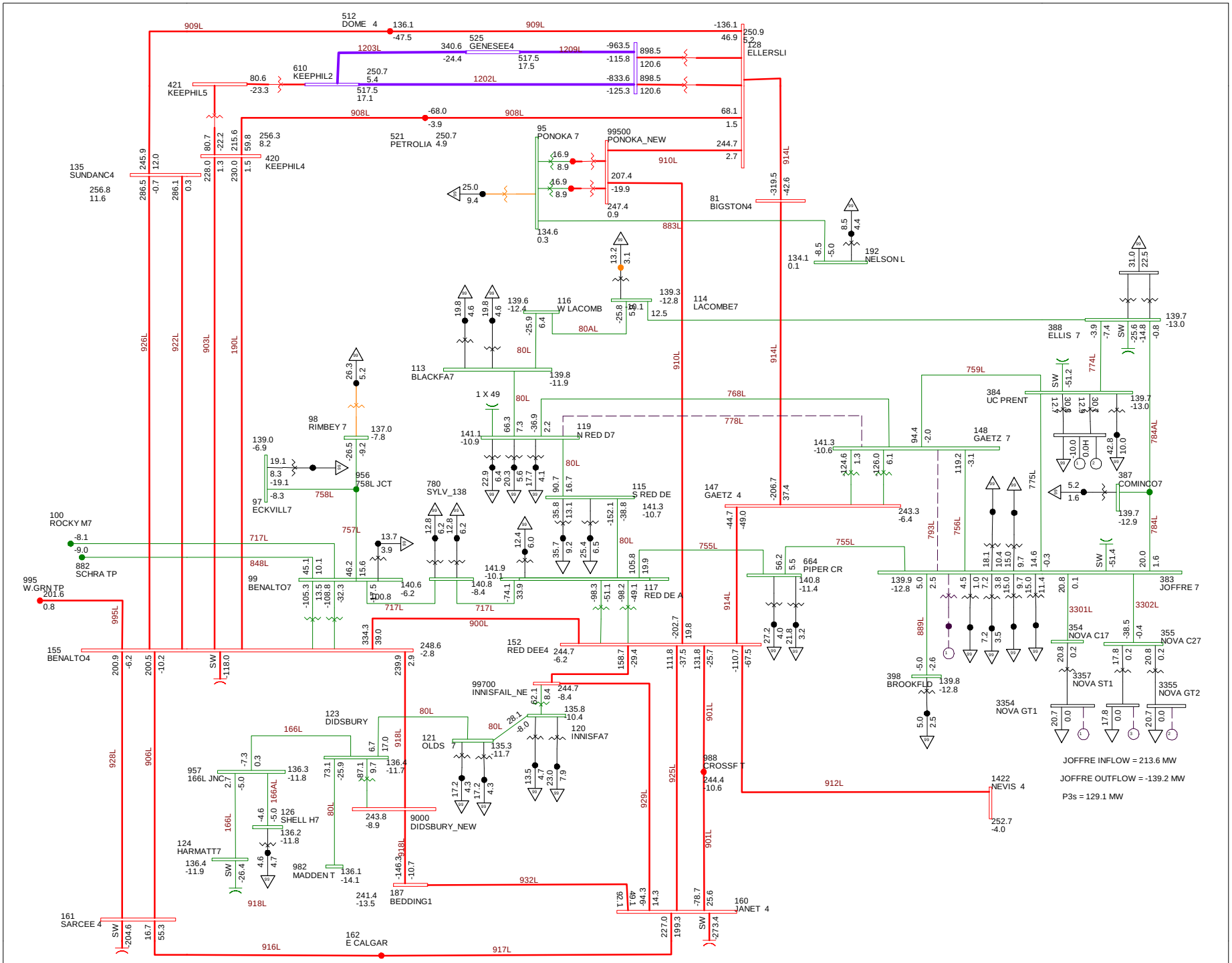
RED DEER REGION STUDY

2012 WINTER PEAK BASE CASE REVISION 6.5

FIG 2012-ALT2-LOAD-WP-C7-1-1: 914L(GAETZ 87S TO RED DEER 63S 914L(GAETZ 87S TO BIGSTONE 86S) OUTAGE(NOVA OFF) WITH RAS
WED, MAR 02 2011 9:16

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-549



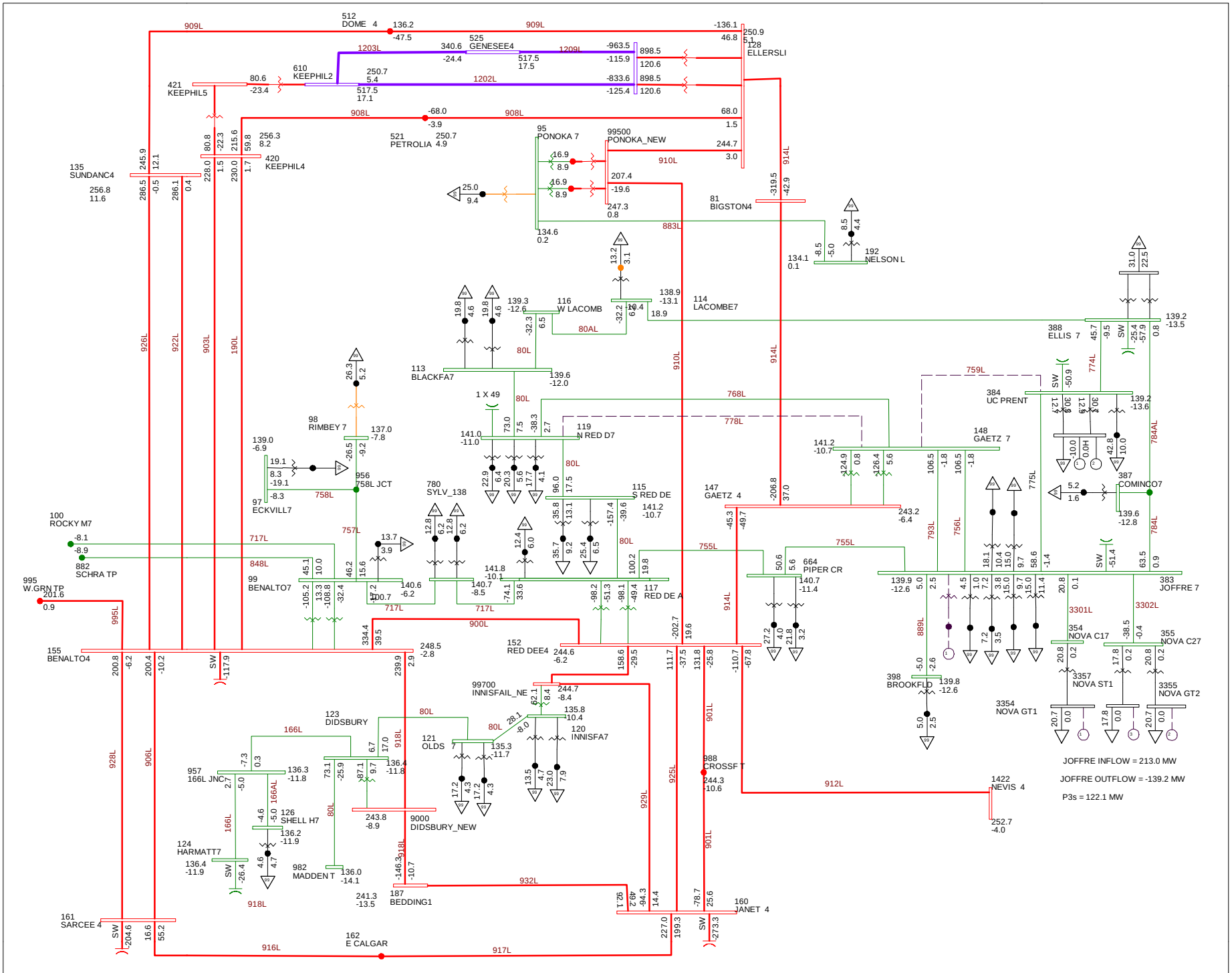
RED DEER REGION STUDY

2012 WINTER PEAK BASE CASE REVISION 6.5

FIG 2012-ALT2-LOAD-WP-C7-2: 793L(GAETZ 87S TO JOFFRE 535S) & 778L(GAETZ 87S TO N.RED DEER 217S) OUTAGE(NOVA OFF)
WED, MAR 02 2011 9:16

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-550

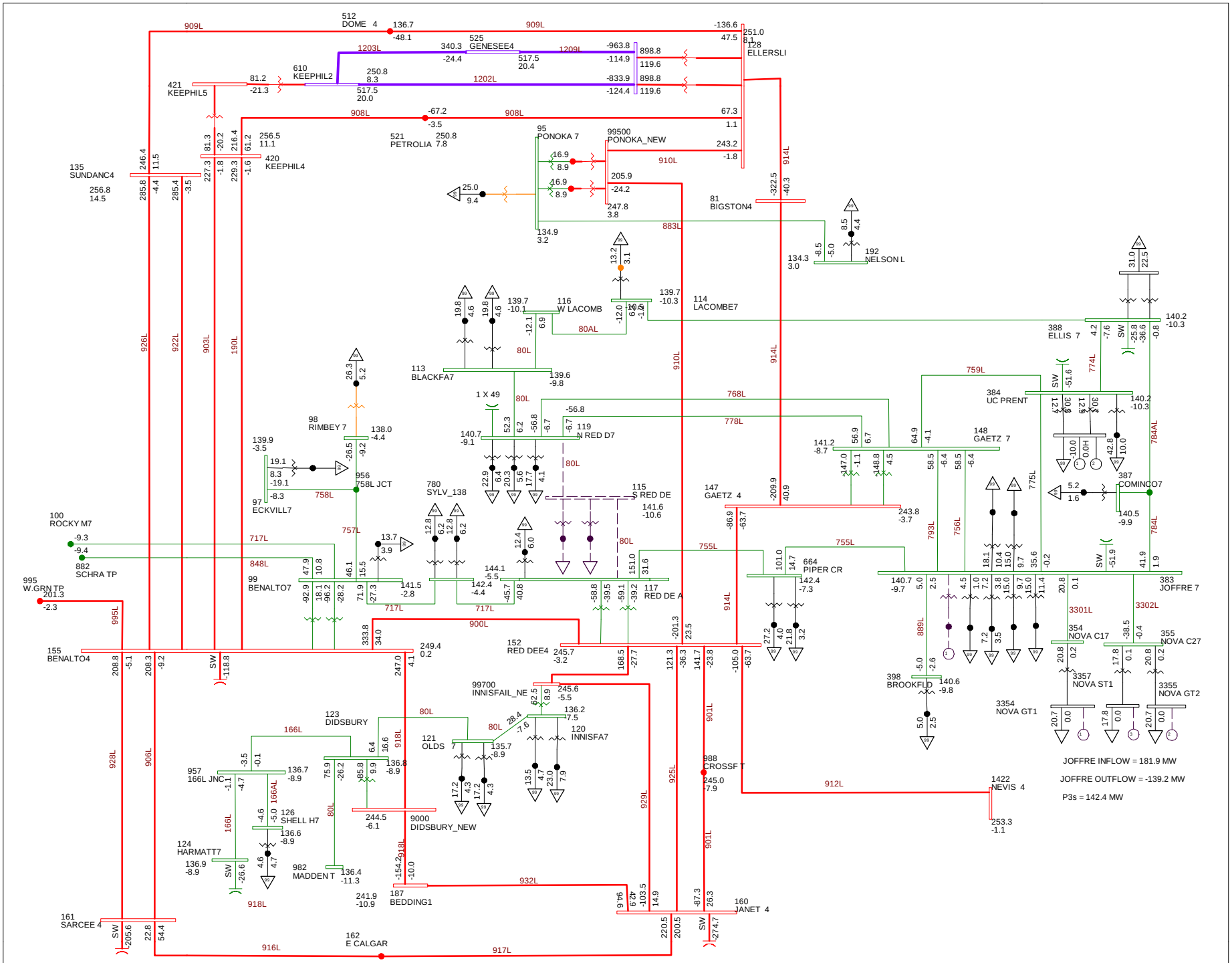


RED DEER REGION STUDY

2012 WINTER PEAK BASE CASE REVISION 6.5

FIG 2012-ALT2-LOAD-WP-C7-3: 778L(GAETZ 87S TO N. RED DEER 21 759L(GAETZ 87S TO PRENTISS 276S) OUTAGE(NOVA OFF)
WED, MAR 02 2011 9:16

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000



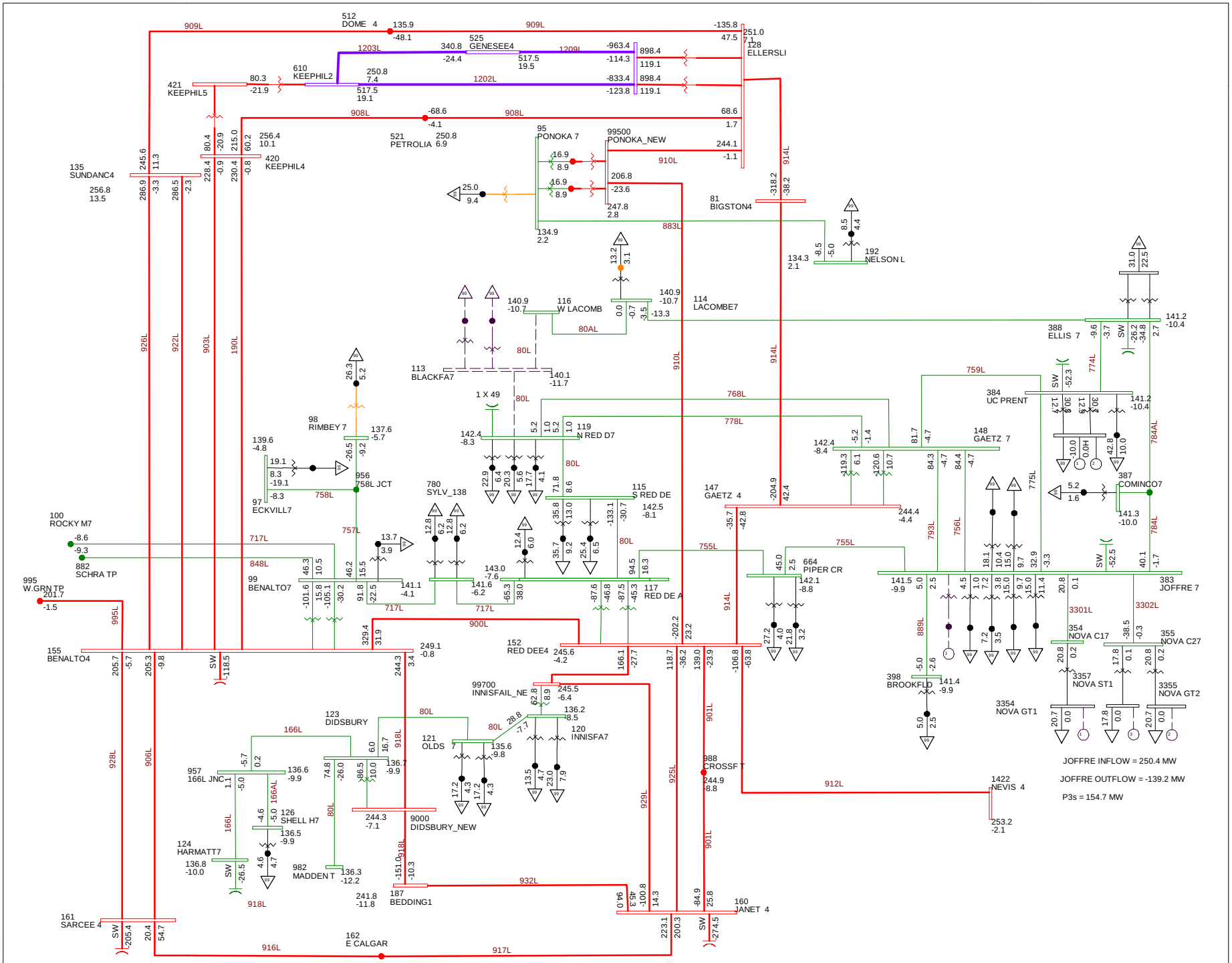
RED DEER REGION STUDY

2012 WINTER PEAK BASE CASE REVISION 6.5

FIG 2012-ALT2-LOAD-WP-C7-4: 80L(S. RED D. 194S TO N. RED D. 80L(S. RED D. 194S TO RED DEER 63S) OUTAGE(NOVA OFF)
WED, MAR 02 2011 9:16

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-552



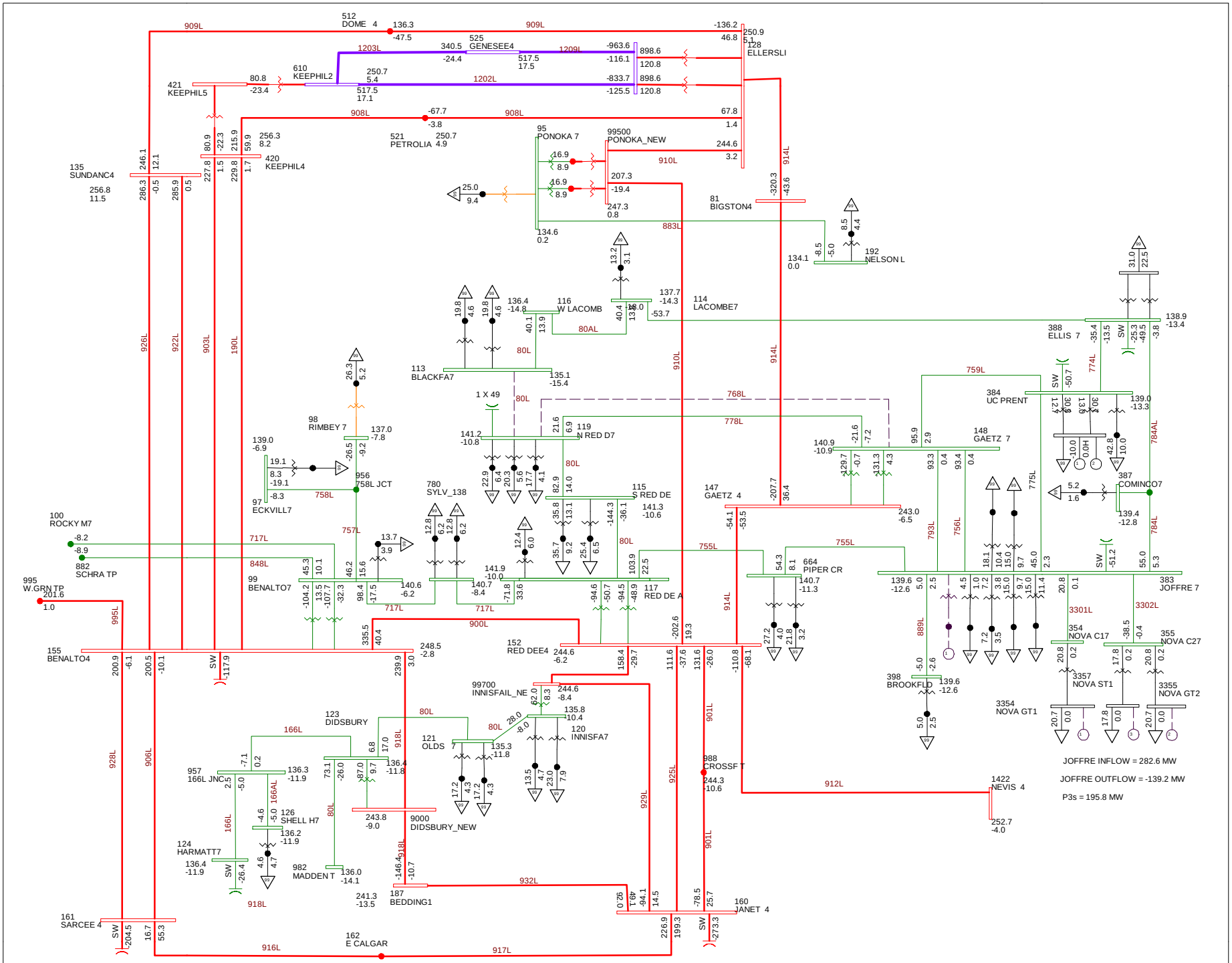
RED DEER REGION STUDY

2012 WINTER PEAK BASE CASE REVISION 6.5

FIG 2012-ALT2-LOAD-WP-C7-5: 80L(BLACKFALDS 198S TO W. LACOMB 80L(BLACKFALDS 198S TO N. RED D. 217S) OUTAGE(NOVA OFF)
WED, MAR 02 2011 9:16

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-553



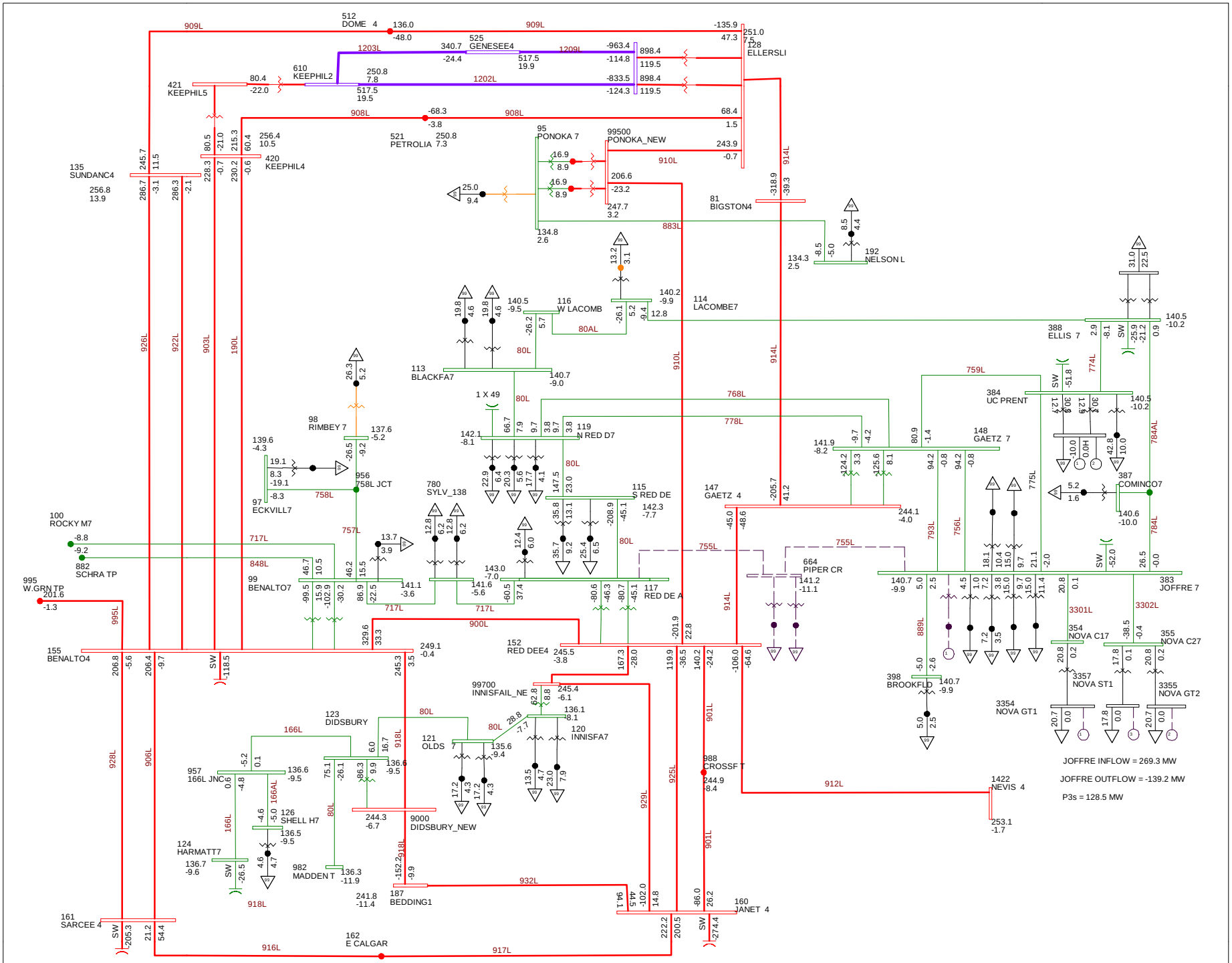
RED DEER REGION STUDY

2012 WINTER PEAK BASE CASE REVISION 6.5

FIG 2012-ALT2-LOAD-WP-C7-6: 80L(N. RED D. 217S TO GAETZ 87S)
80L(BLACKFALDS 198S TO N. RED D. 217S) OUTAGE(NOVA OFF)
WED, MAR 02 2011 9:16

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-554



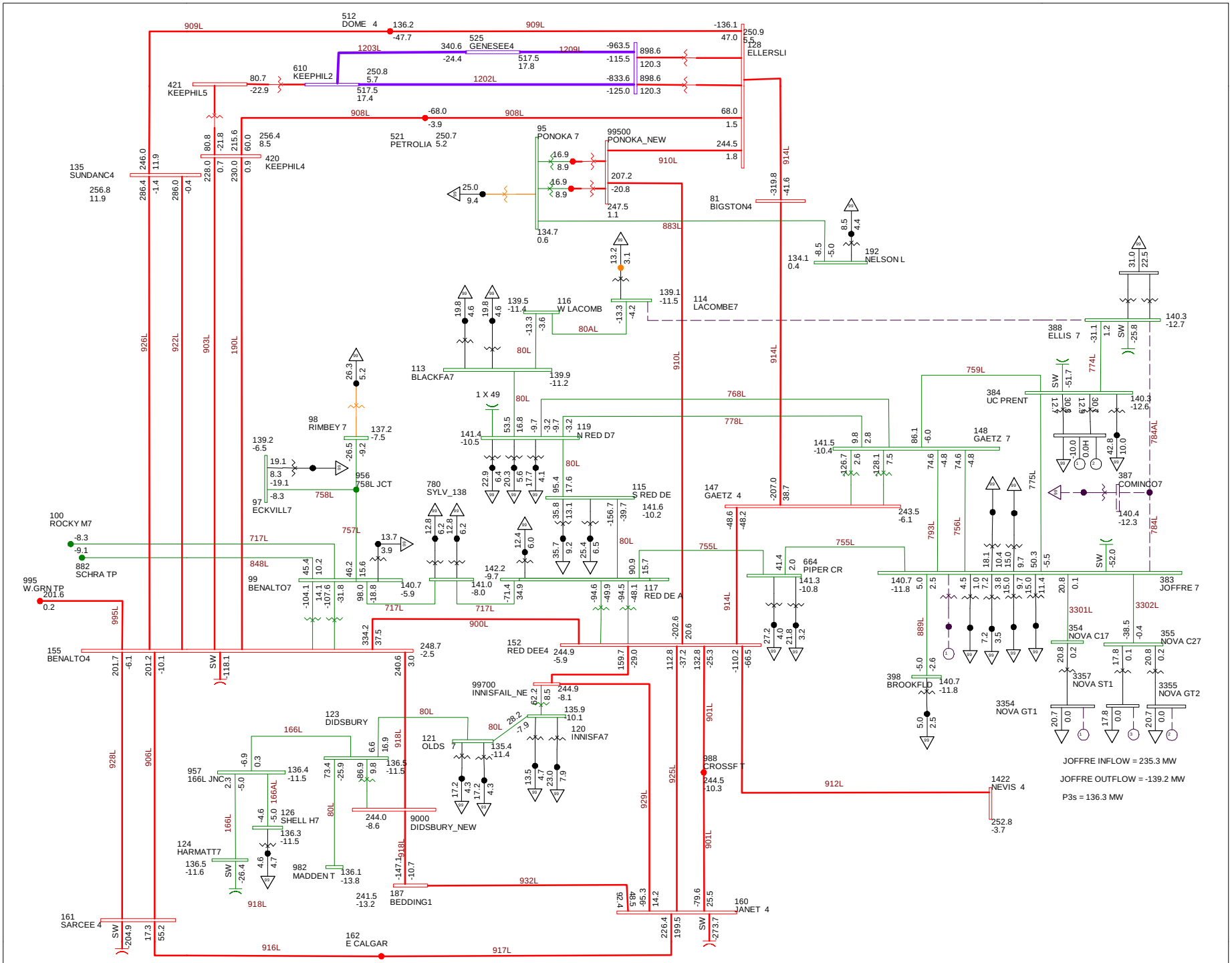
RED DEER REGION STUDY

2012 WINTER PEAK BASE CASE REVISION 6.5

FIG 2012-ALT2-LOAD-WP-C7-7: 755L(PIPER CR. 274S TO RED DEER 755L(PIPER CR. 274S TO JOFFRE 535S) OUTAGE(NOVA OFF)
WED, MAR 02 2011 9:16

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-555

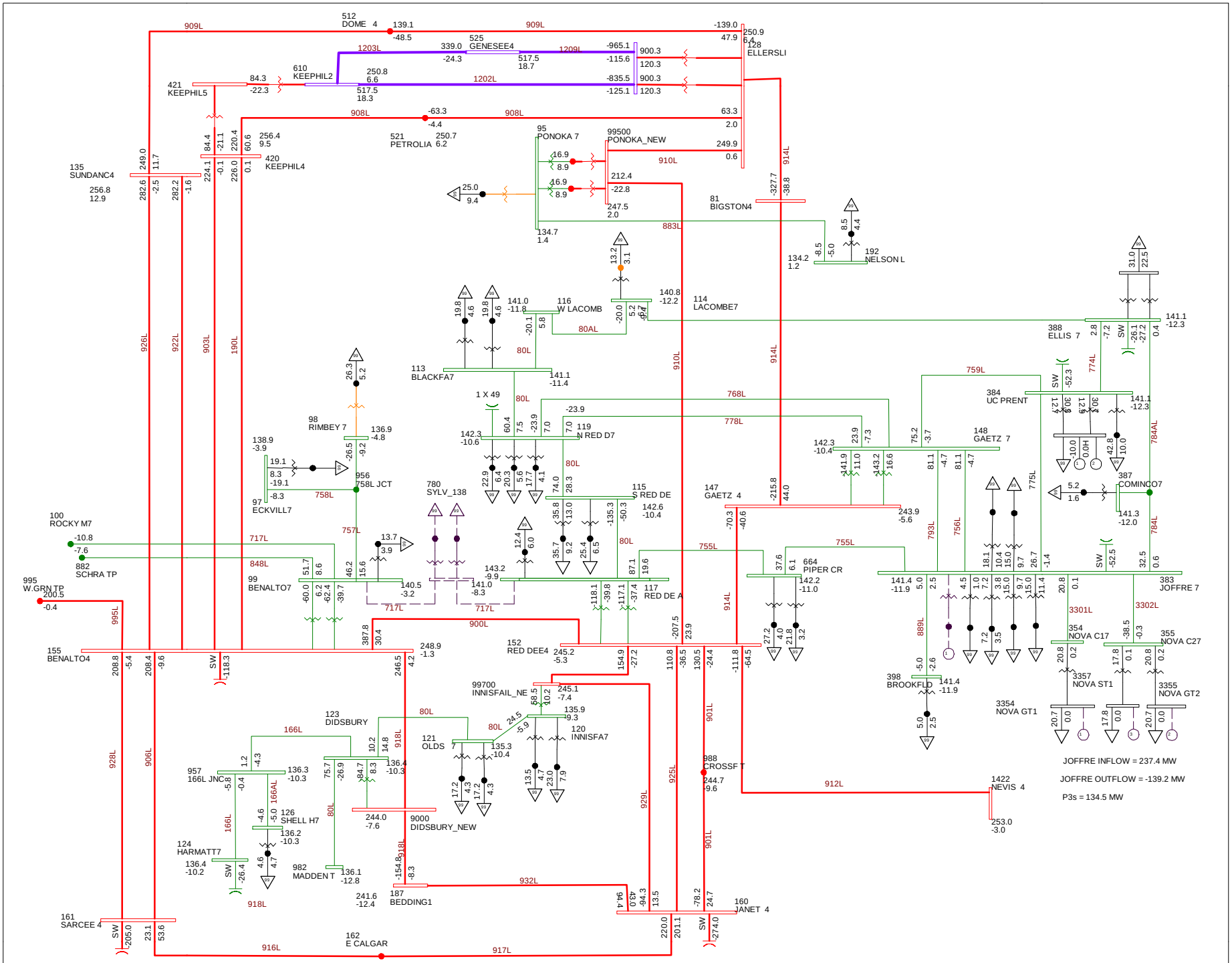


RED DEER REGION STUDY

2012 WINTER PEAK BASE CASE REVISION 6.5

FIG 2012-ALT2-LOAD-WP-C7-8: NEW LINE(N.E.LACOMBE 212S TO ELL 784L(ELLIS 332S TO HAYNES 482S TO JOFFRE 535S) OUTAGE(NOVA
WED, MAR 02 2011 9:16

D-2012-556



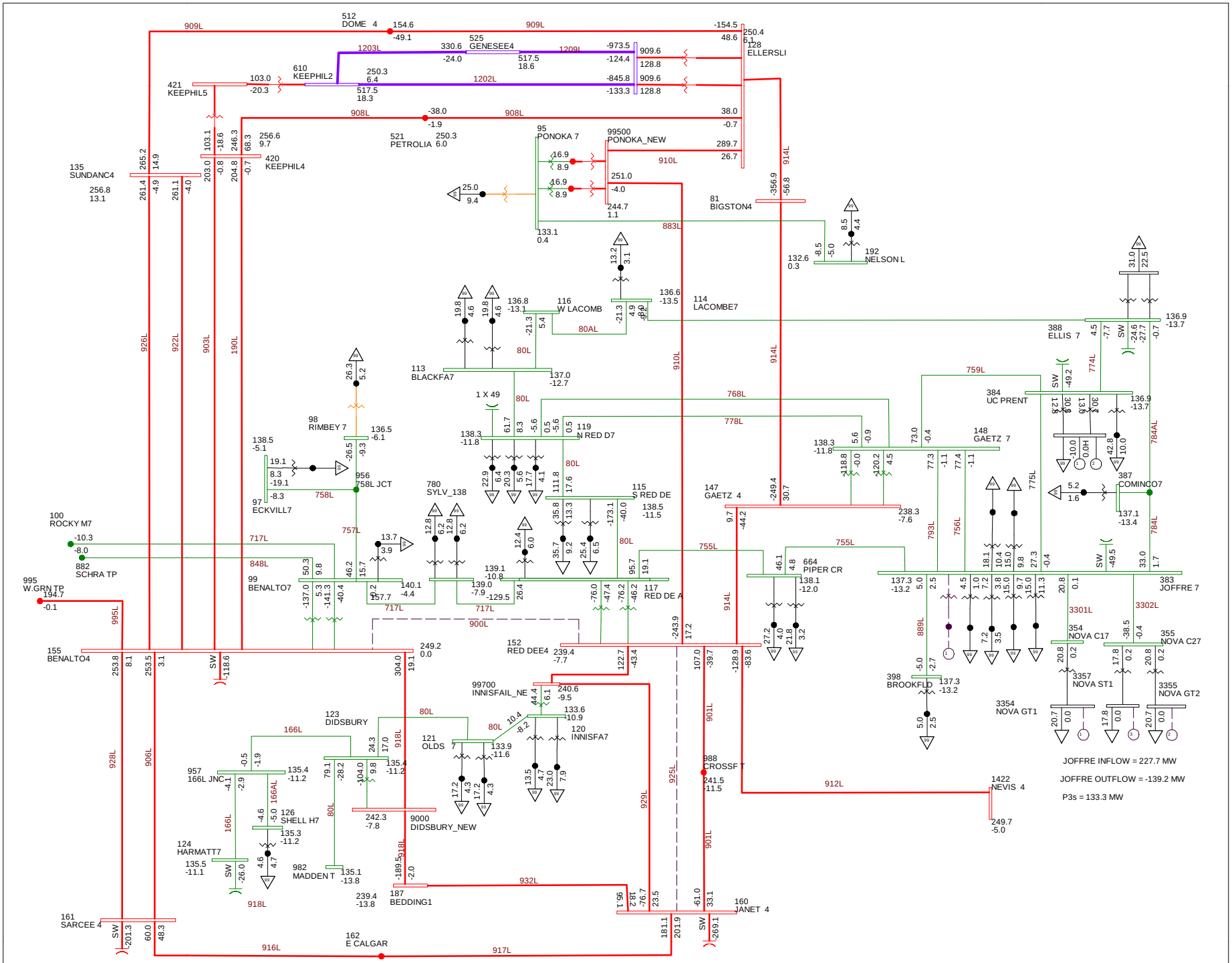
RED DEER REGION STUDY

2012 WINTER PEAK BASE CASE REVISION 6.5

FIG 2012-ALT2-LOAD-WP-C7-9: 717L(BENALTO 17S TO SYLVAN LAKE 717L(RED DEER 63S TO SYLVAN LAKE 580S) OUTAGE(NOVA OFF)
WED, MAR 02 2011 9:16

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-557



RED DEER REGION STUDY

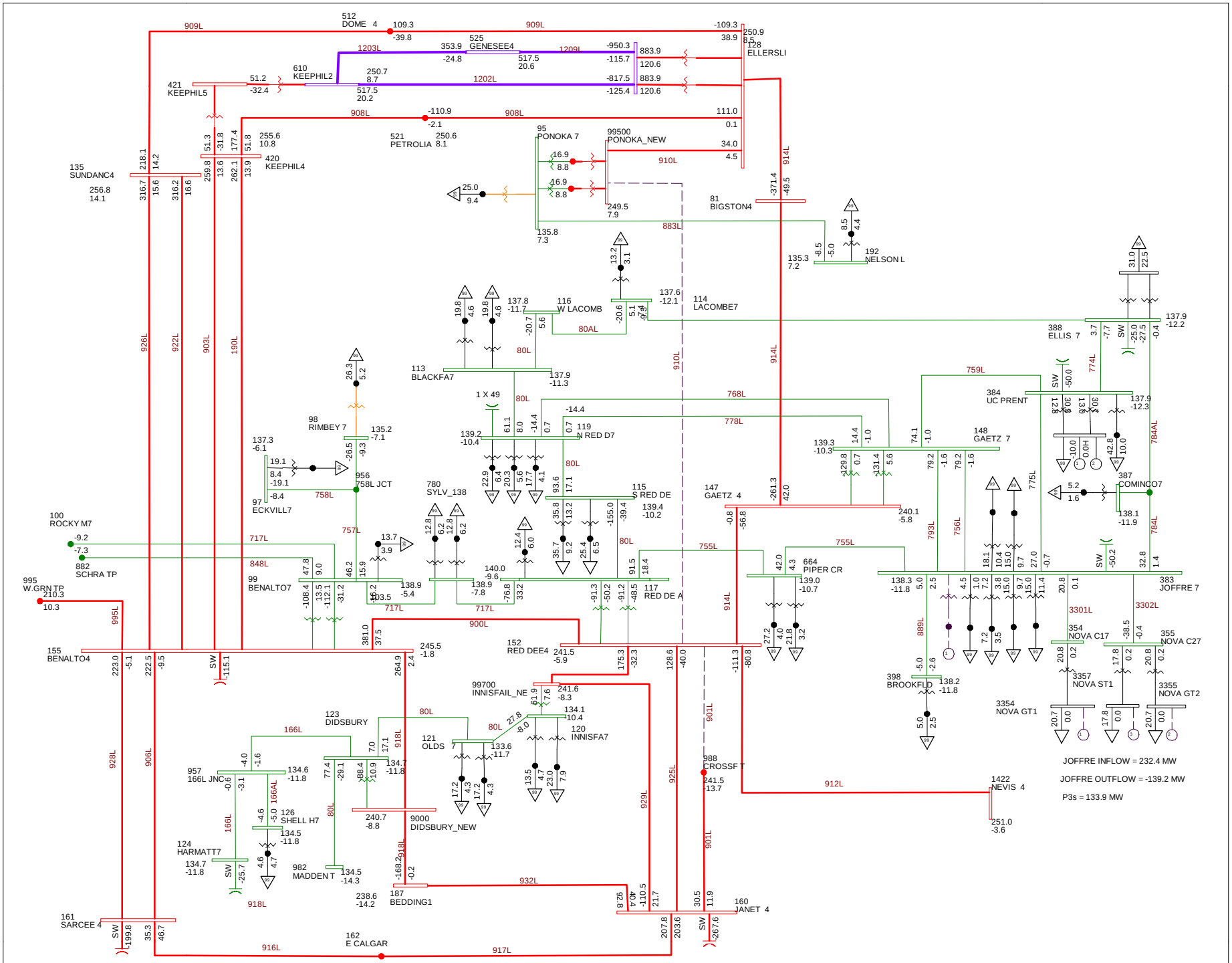
2012 WINTER PEAK BASE CASE REVISION 6.5

FIG 2012-ALT2-LOAD-WP-C7-10: 900L(RED DEER 63S TO BENALTO 17
925L(RED DEER 63S TO JANET 74S) OUTAGE(NOVA OFF)
WED, MAR 02 2011 9:16

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR

<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-558



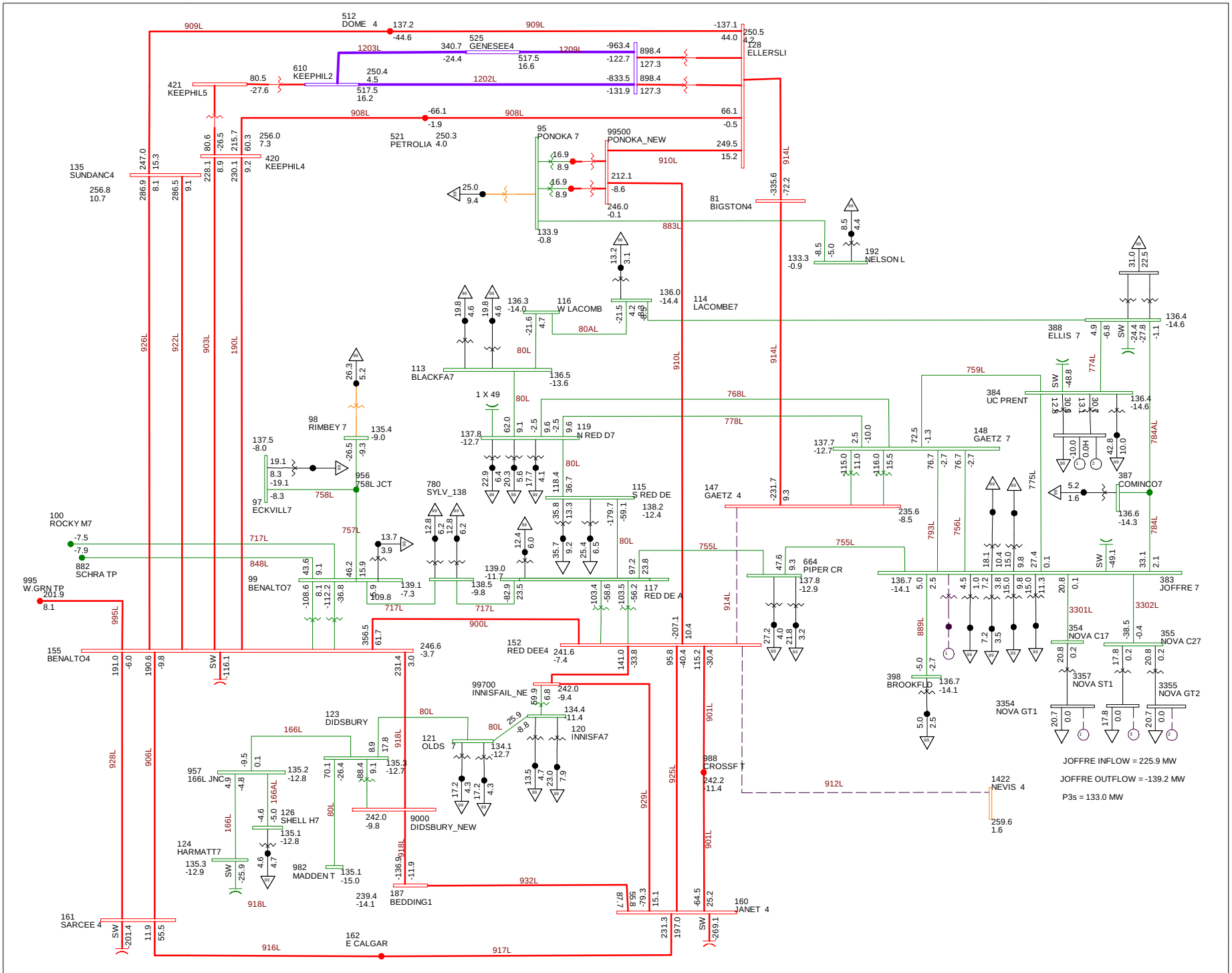
RED DEER REGION STUDY

2012 WINTER PEAK BASE CASE REVISION 6.5

FIG 2012-ALT2-LOAD-WP-C7-11: 901L(RED DEER 63S TO CROSSFIELD 910L(RED DEER 63S TO PONOKA 331S) OUTAGE(NOVA OFF)
WED, MAR 02 2011 9:16

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-559



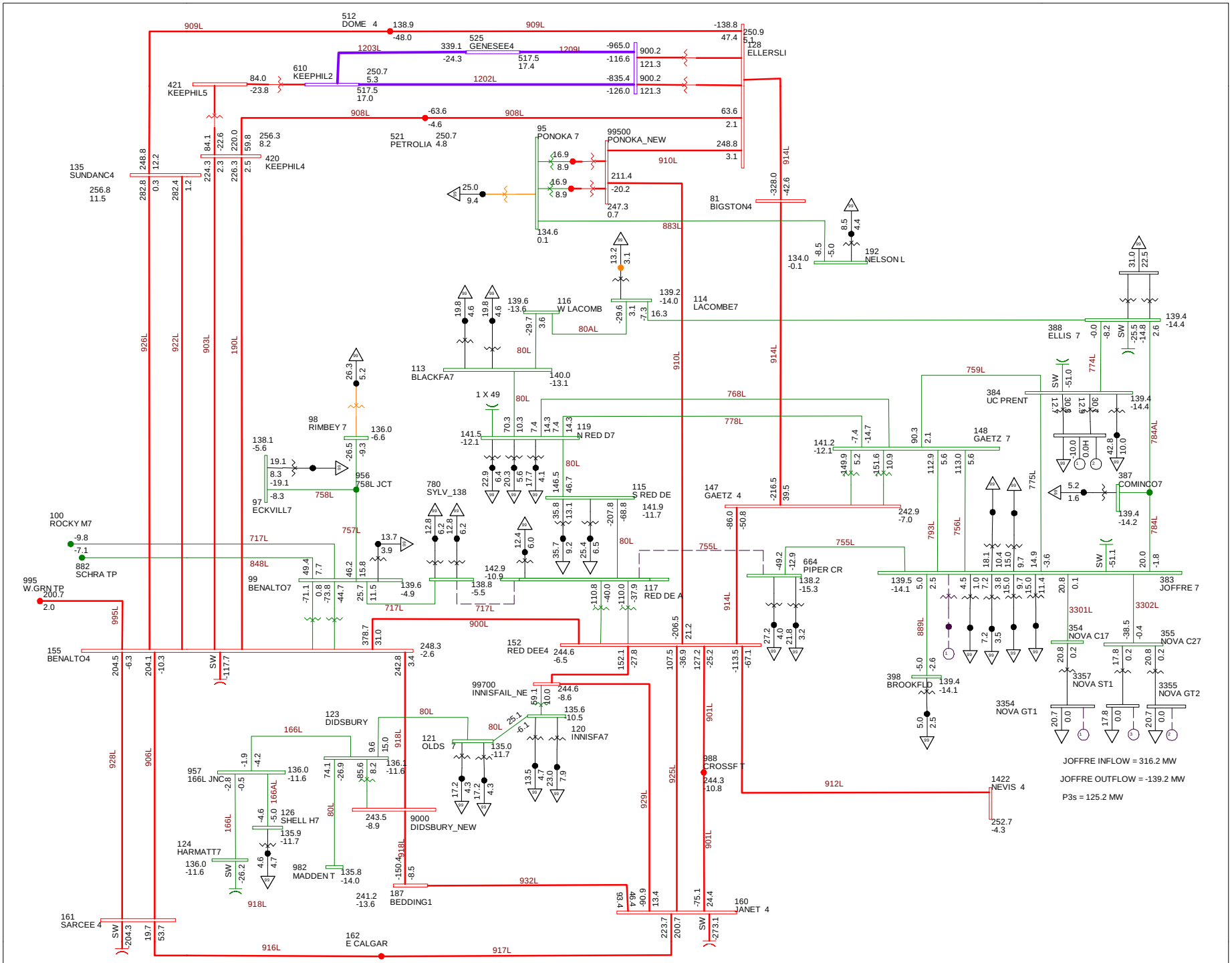
RED DEER REGION STUDY

2012 WINTER PEAK BASE CASE REVISION 6.5

FIG 2012-ALT2-LOAD-WP-C7-12: 914L(RED DEER 63S TO GAETZ 87S)
912L(RED DEER 63S TO NEVIS 766S) OUTAGE(NOVA OFF)
WED, MAR 02 2011 9:16

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-560



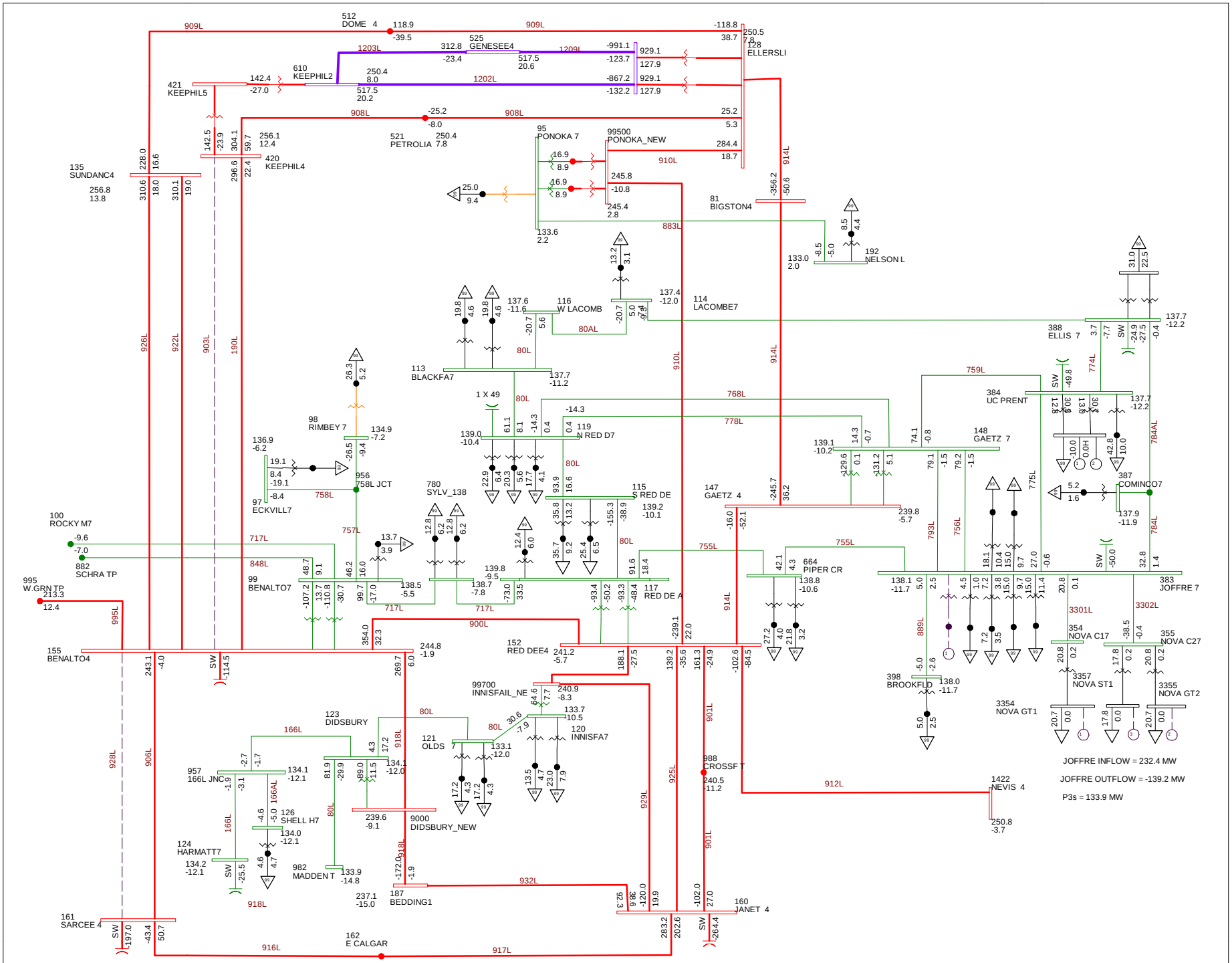
RED DEER REGION STUDY

2012 WINTER PEAK BASE CASE REVISION 6.5

FIG 2012-ALT2-LOAD-WP-C7-13: 755L(RED DEER 63S TO PIPER CR. 717L(RED DEER 63S TO SYLVAN LAKE 580S) OUTAGE(NOVA OFF)
WED, MAR 02 2011 9:16

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-561

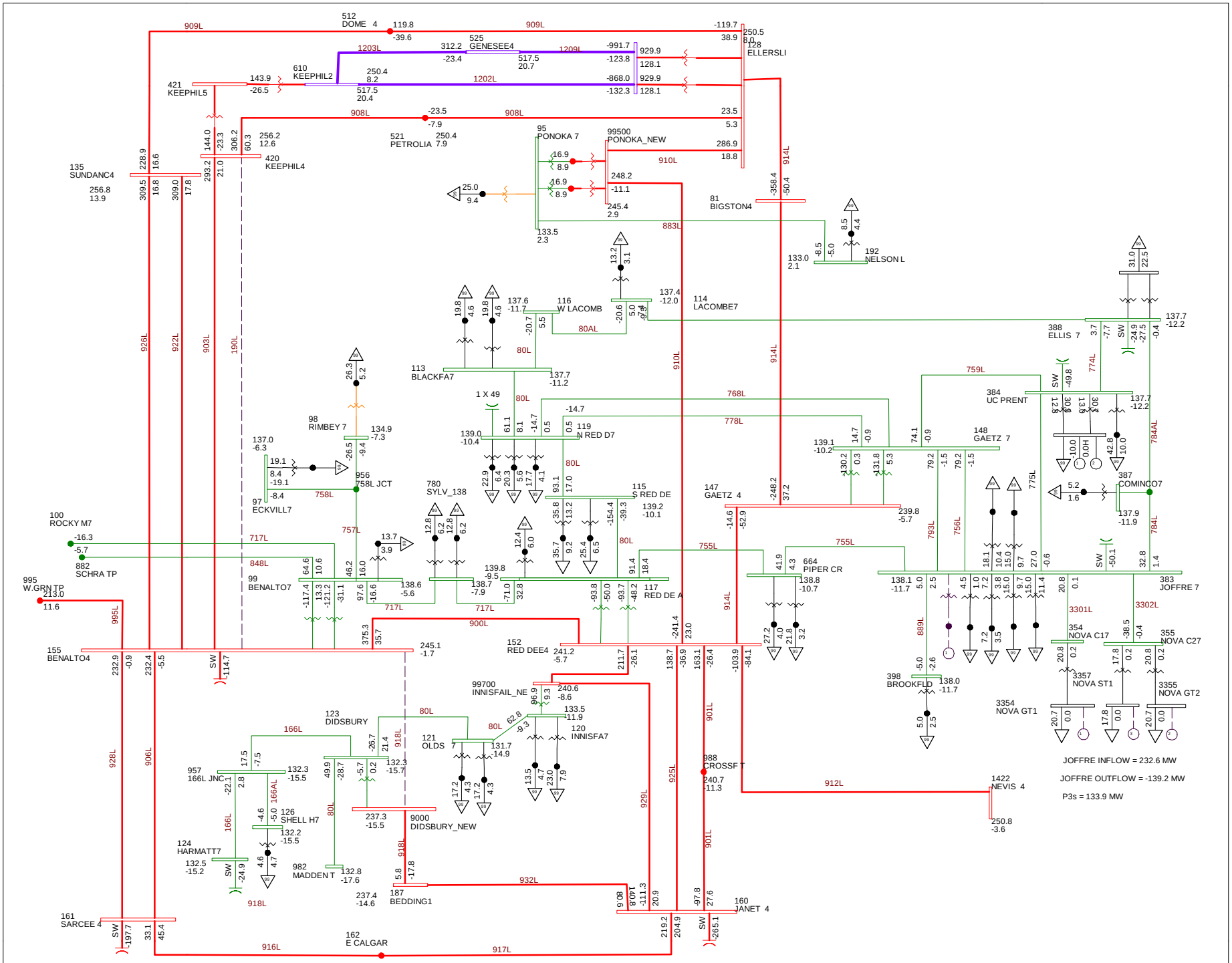


RED DEER REGION STUDY
2012 WINTER PEAK BASE CASE REVISION 6.5

FIG 2012-ALT2-LOAD-WP-C7-14: 903L(BENALTO 17S TO KEEPHILLS 3 928L(BENALTO 17S TO SARCEE 42S) OUTAGE(NOVA OFF)
WED, MAR 02 2011 9:16

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-562



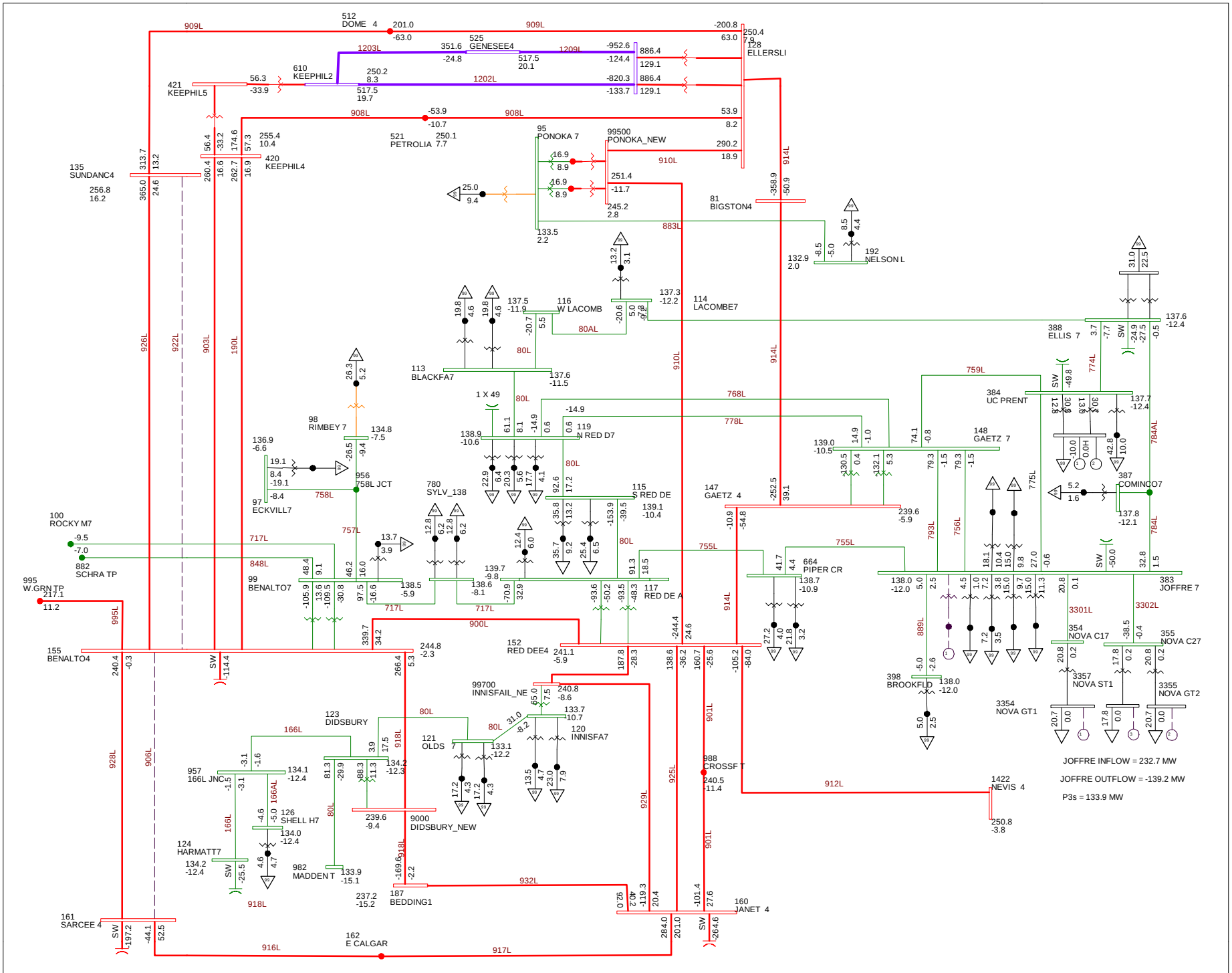
RED DEER REGION STUDY

2012 WINTER PEAK BASE CASE REVISION 6.5

FIG 2012-ALT2-LOAD-WP-C7-15: 190L(BENALTO 17S TO KEEPHILLS 3 918L(BENALTO 17S TO DIDSBURY 152S) OUTAGE(NOVA OFF)
WED, MAR 02 2011 9:16

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-563

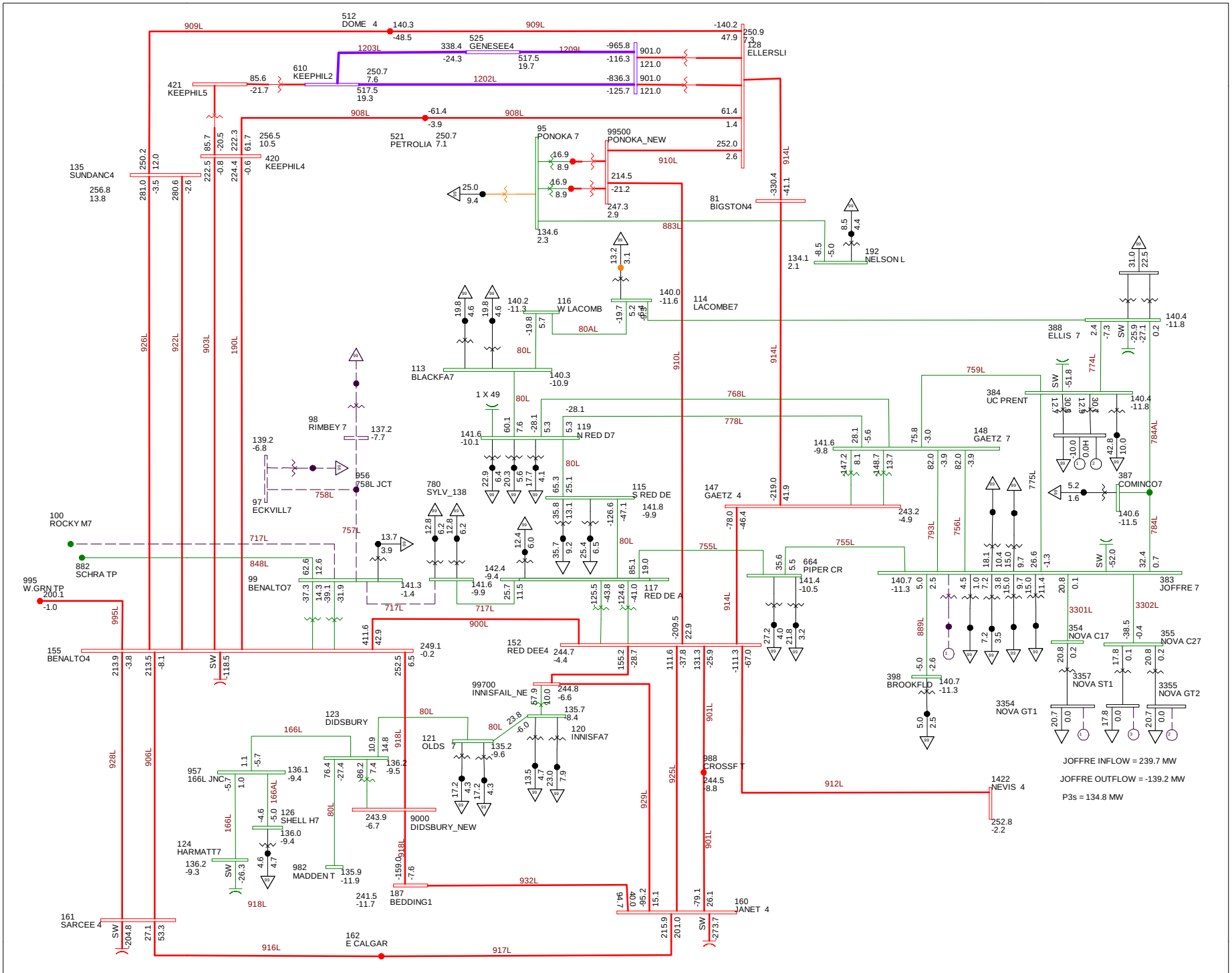


RED DEER REGION STUDY

2012 WINTER PEAK BASE CASE REVISION 6.5

FIG 2012-ALT2-LOAD-WP-C7-16: 922L(BENALTO 17S TO SUNDANCE 31
906L(BENALTO 17S TO SARCEE 42S) OUTAGE (NOVA OFF)
WED, MAR 02 2011 9:16

D-2012-564



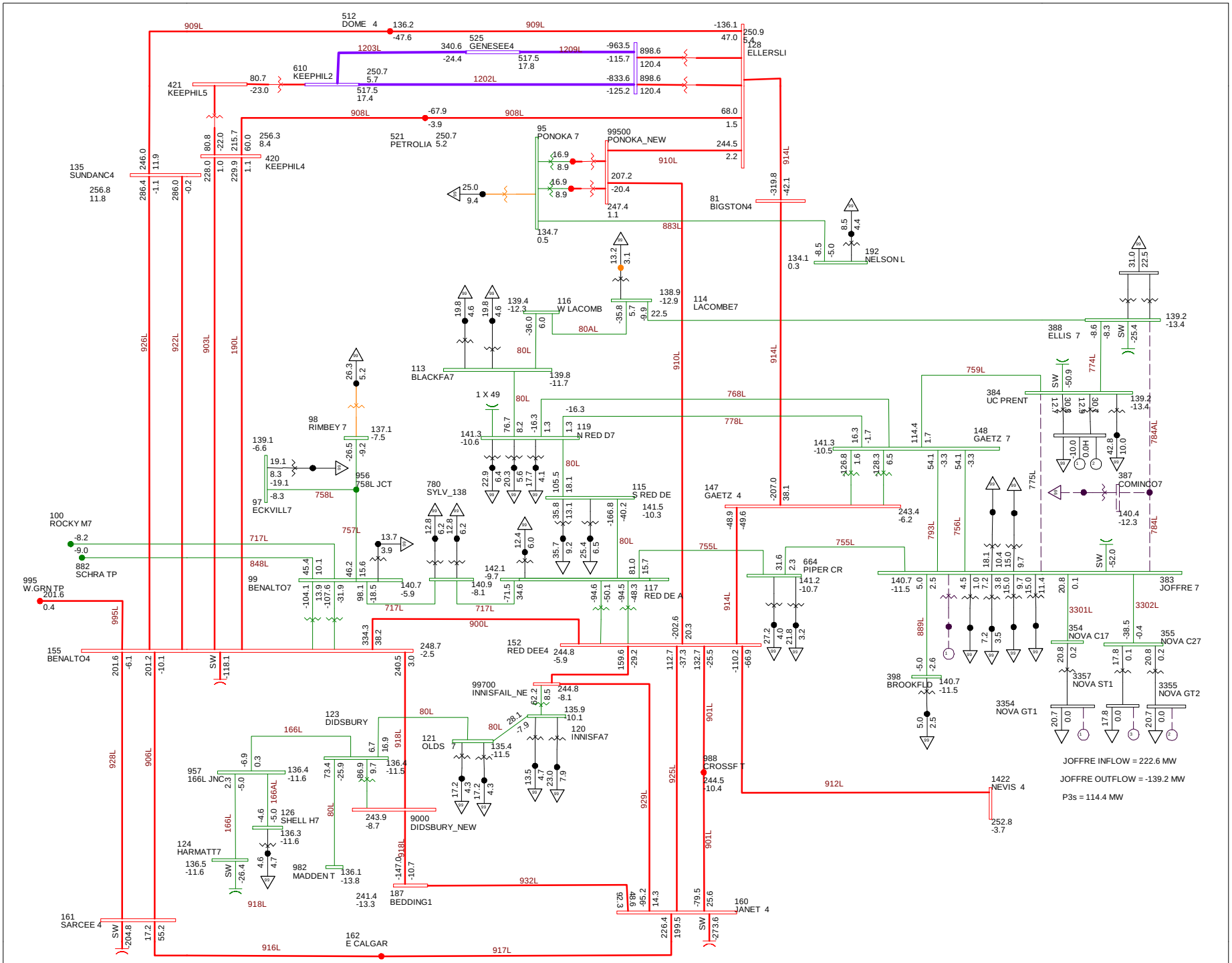
RED DEER REGION STUDY

2012 WINTER PEAK BASE CASE REVISION 6.5

FIG 2012-ALT2-LOAD-WP-C7-17: 757L(BENALTO 17S THROUGH ECKVIL 717L(BENALTO 17S TO SYLVAN LAKE 580S & 717L BENALTO 17S TO R
WED, MAR 02 2011 9:16

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-565



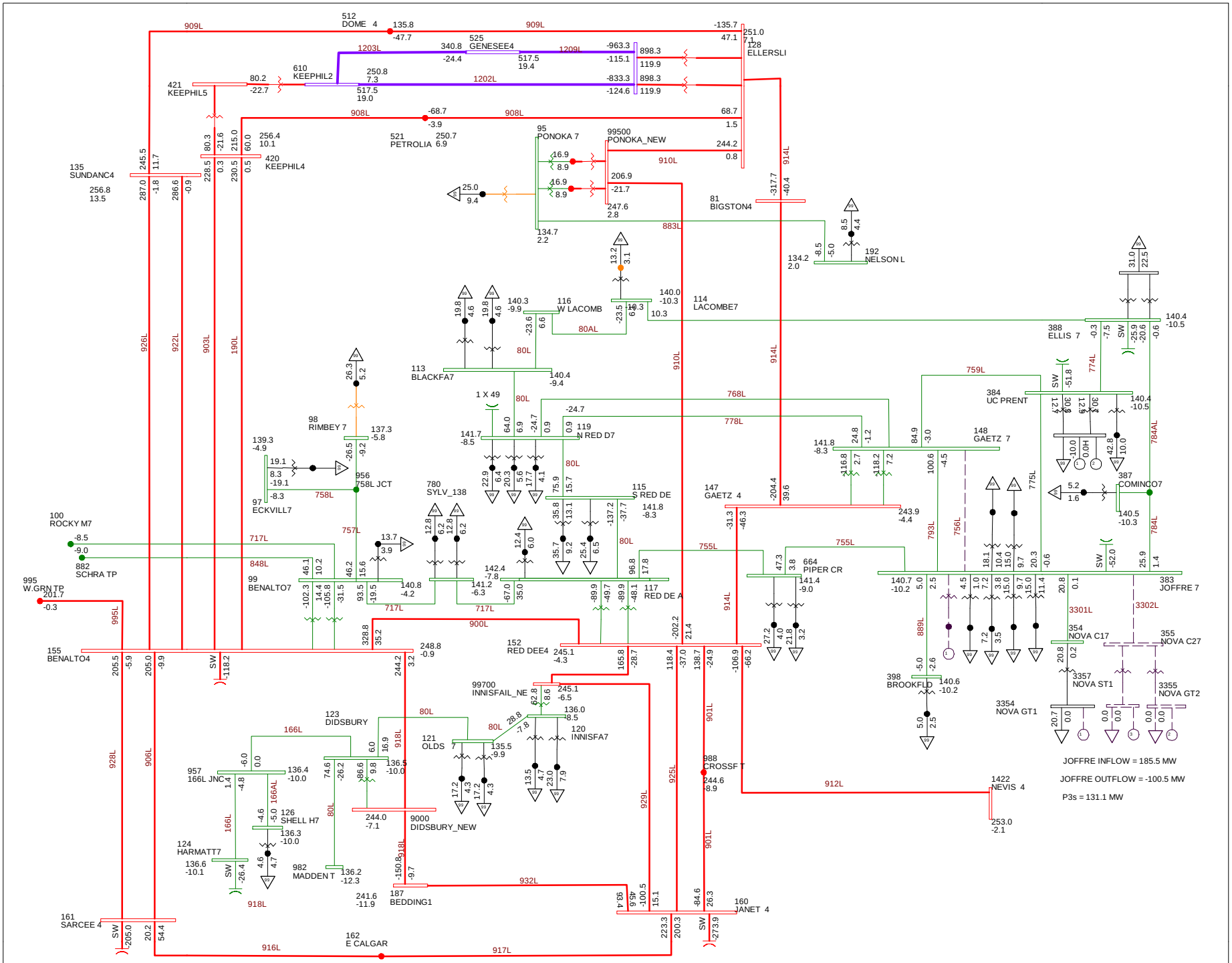
RED DEER REGION STUDY

2012 WINTER PEAK BASE CASE REVISION 6.5

FIG 2012-ALT2-LOAD-WP-C7-18: 784L(JOFFRE 535S TO HAYNES 482S 775L(JOFFRE 535S TO PRENTISS 276S) OUTAGE(NOVA OFF)
WED, MAR 02 2011 9:16

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-566



RED DEER REGION STUDY

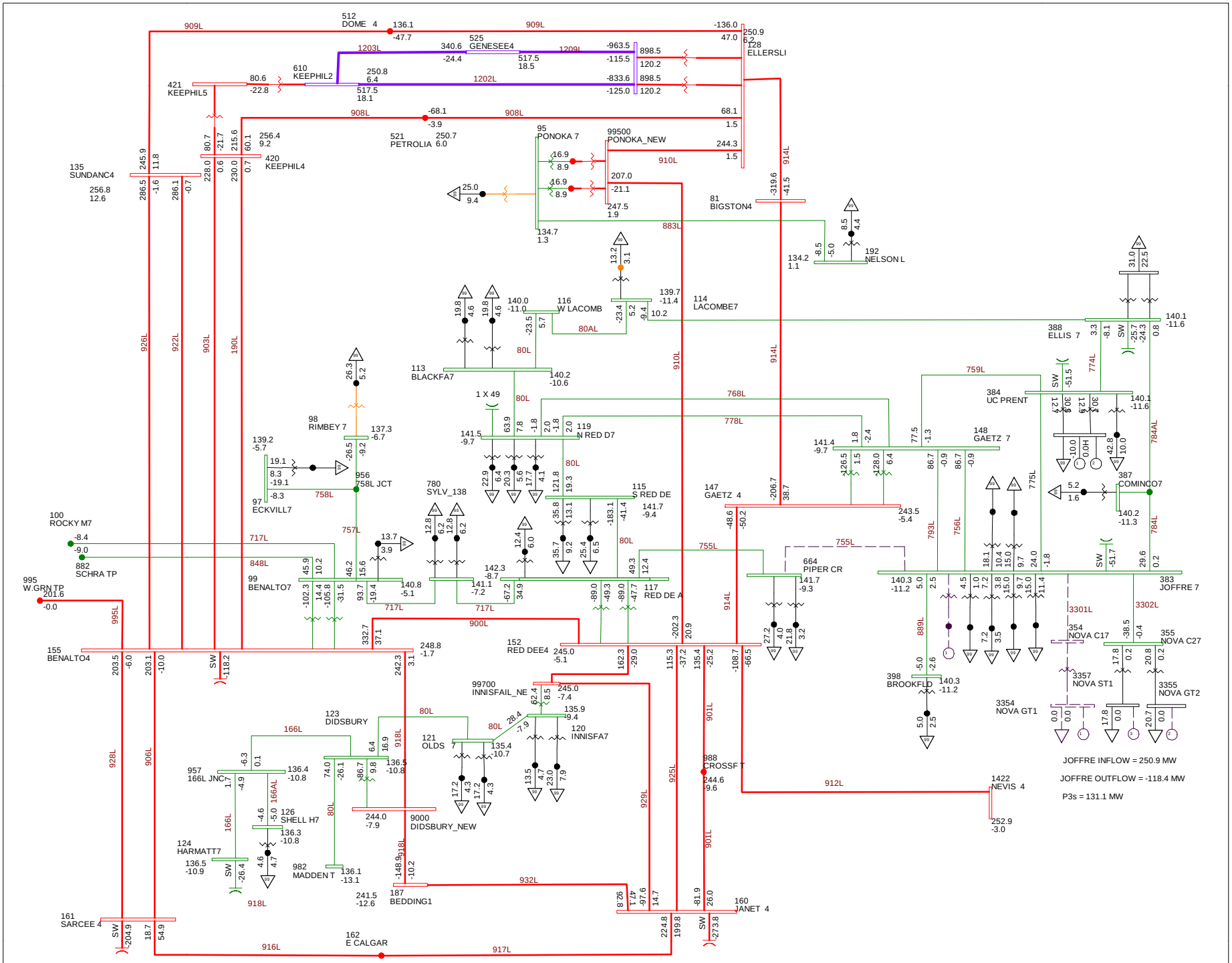
2012 WINTER PEAK BASE CASE REVISION 6.5

FIG 2012-ALT2-LOAD-WP-C7-19: 756L(JOFFRE 535S TO GAETZ 87S)
1330L(JOFFRE 535S TO NOVA 355S) OUTAGE(NOVA OFF)
WED, MAR 02 2011 9:16

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR

<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-567



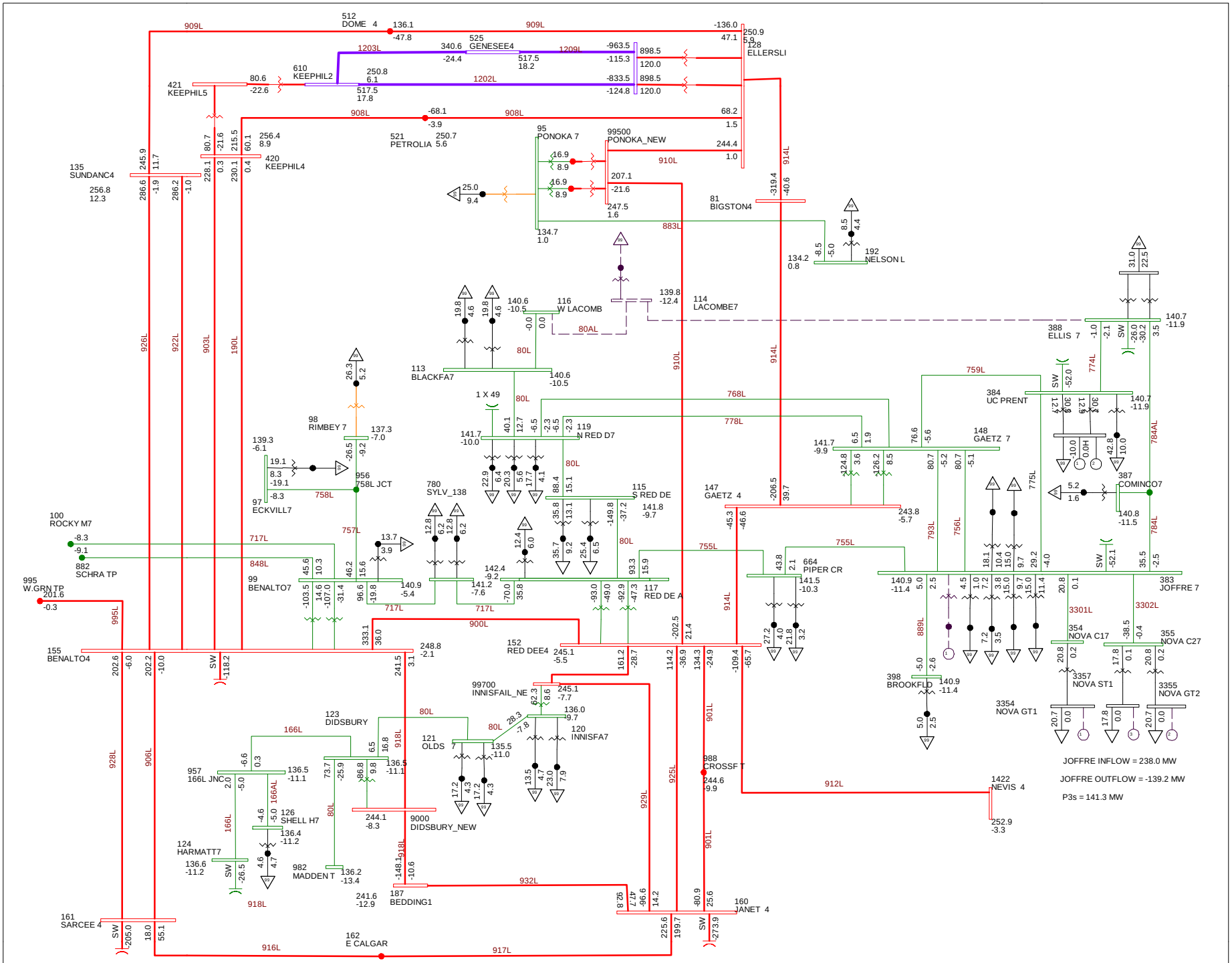
RED DEER REGION STUDY

2012 WINTER PEAK BASE CASE REVISION 6.5

FIG 2012-ALT2-LOAD-WP-C7-20: 755L(JOFFRE 535S TO PIPER CREEK 1330L(JOFFRE 535S TO NOVA 355S) OUTAGE(NOVA OFF)
WED, MAR 02 2011 9:16

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-568



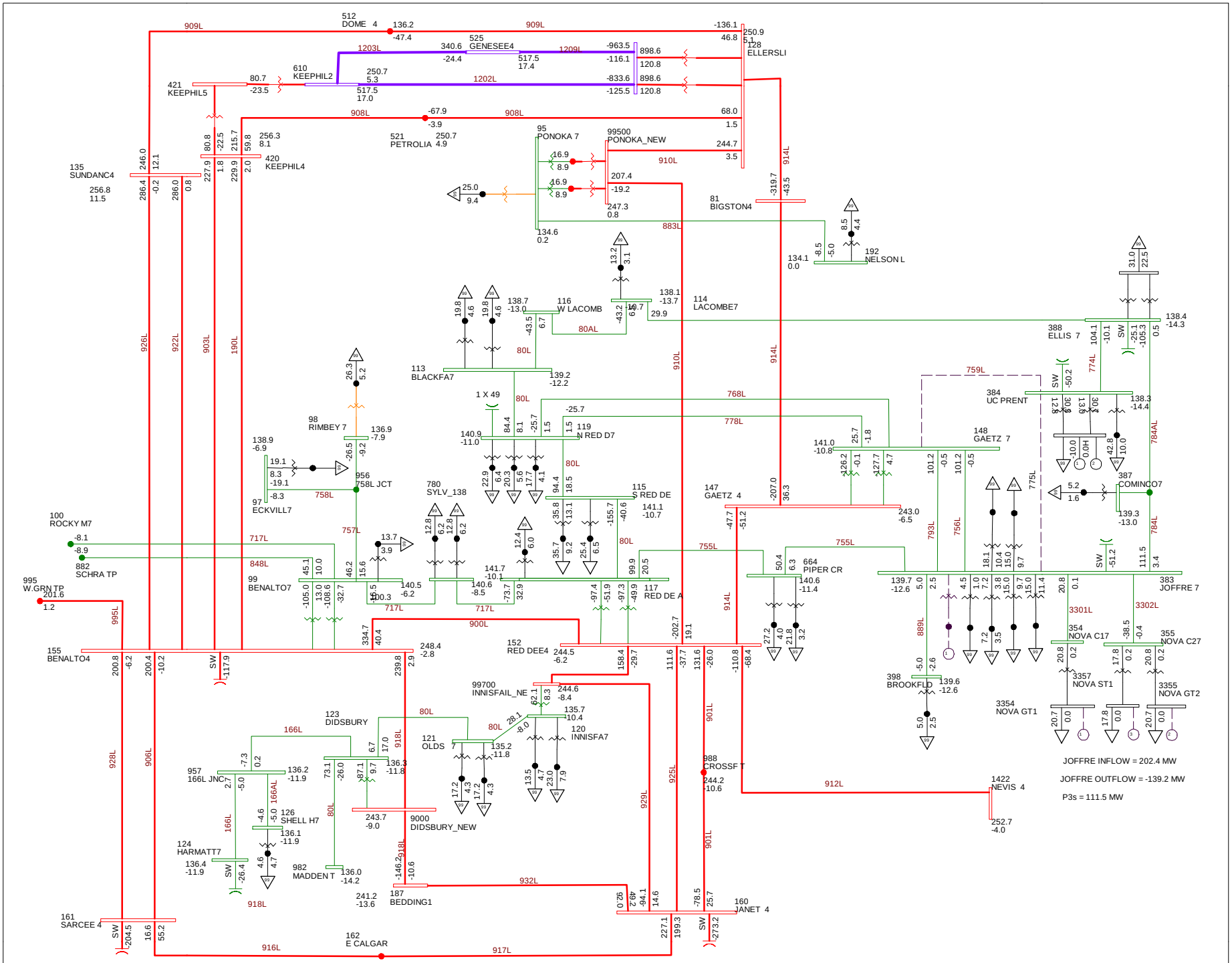
RED DEER REGION STUDY

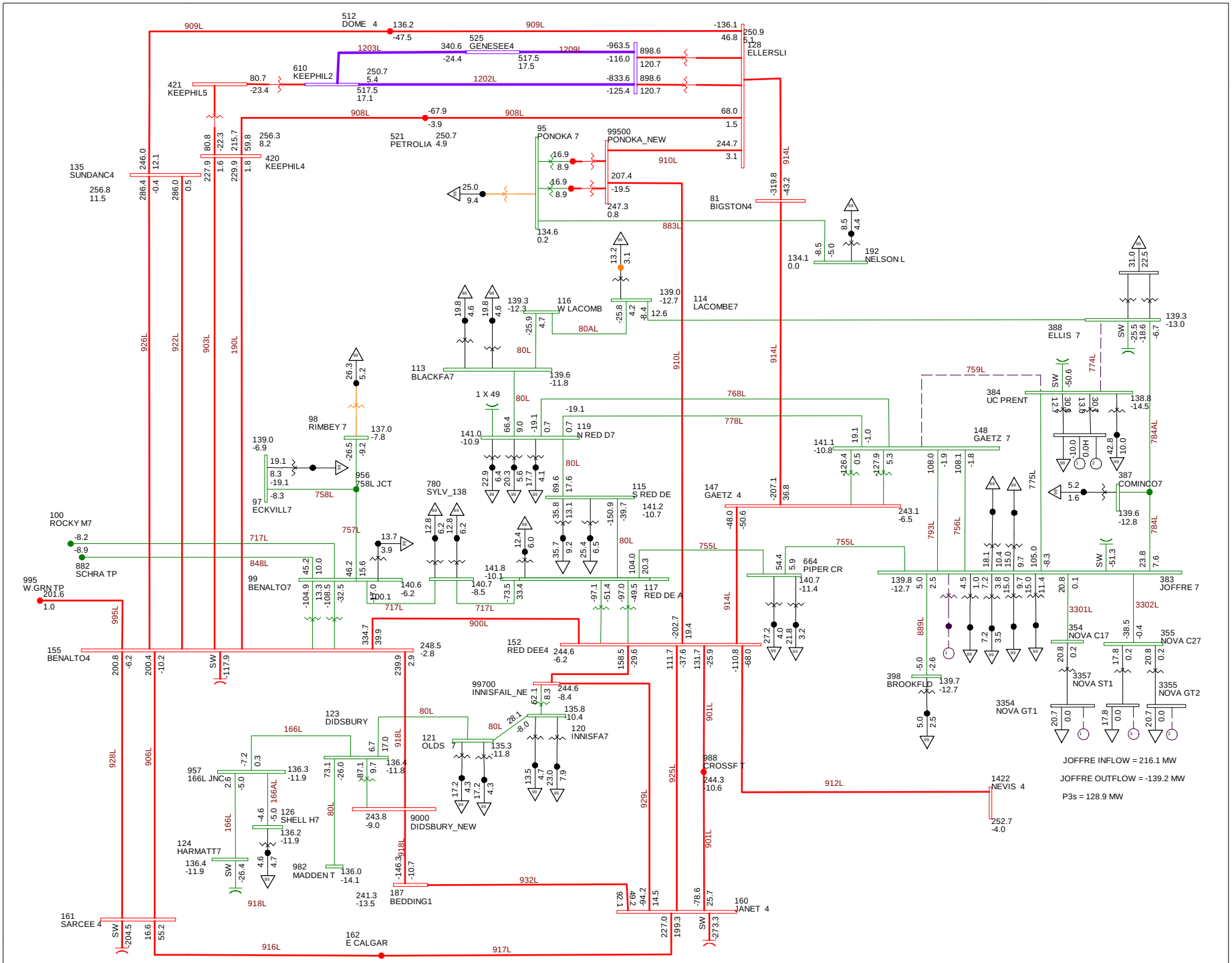
2012 WINTER PEAK BASE CASE REVISION 6.5

FIG 2012-ALT2-LOAD-WP-C7-21: 80AL(N.E.LACOMBE 212S TO W. LAC NEW LINE(N.E.LACOMBE 212S TO ELLIS 332S) OUTAGE(NOVA OFF)
WED, MAR 02 2011 9:17

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-569


512
DOME 4
136.2
-47.4
909L
525
GENESEE4
340.6
-24.4
1203L
517.5
17.4
1209L
-963.5
-116.1
898.6
120.8
-136.1
46.8
250.9
5.1
128
ELLERSLI
610
KEEPHIL2
80.7
-23.5
250.7
5.3
517.5
17.0
1202L
-833.6
-125.5
898.6
120.8
421
KEEPHIL5
908L
-67.9
-3.9
68.0
1.5
521
PETROLIA
250.7
4.9
95
PONOKA 7
99500
PONOKA_NEW
244.7
3.5
910L
914L
16.9
8.9
207.4
-19.2
247.3
0.8
883L
-319.7
-43.5
81
BIGSTON4
25.0
9.4
134.6
0.2
8.5
4.4
134.1
0.0
8.5
-5.0
192
NELSON L
135
SUNDANC4
256.8
11.5
246.0
12.1
286.4
-0.2
286.0
0.8
256.3
8.1
420
KEEPHIL4
80.8
-22.5
215.7
59.8
227.9
1.8
229.9
2.0
926L
922L
903L
190L
13.2
3.1
138.1
-13.7
29.9
114
LACOMBE7
138.7
-13.0
116
W LACOMB
-43.5
6.7
-43.2
6.9
80AL
19.8
4.6
19.8
4.6
80L
113
BLACKFA7
139.2
-12.2
910L
914L
759L
768L
778L
1 X 49
80L
-25.7
98
RIMBEY 7
136.9
-7.9
138.9
-6.9
26.3
5.2
26.5
-9.2
19.1
8.3
-19.1
-8.3
956
758L JCT
758L
97
ECKVILL7
140.9
-11.0
84.4
8.1
-25.7
1.5
1.5
119
N RED D7
22.9
6.4
20.3
5.6
17.7
4.1
94.4
18.5
80L
780
SYLV_138
115
S RED DE
141.1
-10.7
35.8
13.1
-155.7
-40.6
35.7
9.2
25.4
6.5
12.8
6.2
12.8
6.2
12.4
6.0
141.0
-10.8
25.7
-1.8
126.2
-0.1
127.7
4.7
147
GAETZ 4
-207.0
36.3
243.0
-6.5
-47.7
-51.2
148
GAETZ 7
101.2
-0.5
101.2
-0.5
384
UC PRENT
138.3
-14.4
784AL
775L
793L
756L
774L
SW
-50.2
104.1
-10.1
SW
-25.1
-105.3
0.5
138.4
-14.3
388
ELLIS 7
31.0
22.5
10.0
0.0H
42.9
10.0
5.2
1.6
387
COMINCO7
139.3
-13.0
784L
100
ROCKY M7
-8.1
-8.9
882
SCHRA TP
717L
848L
757L
13.7
3.9
99
BENALTO7
45.1
10.0
46.2
15.6
-105.0
13.0
-108.6
-32.7
-5.5
-100.3
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717L
141.7
-10.1
140.6
-8.5
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32.9
99.9
20.5
-97.4
-51.9
-97.3
-49.9
117
RED DE A
140.6
-11.4
664
PIPER CR
50.4
6.3
755L
139.7
-12.6
5.0
2.5
4.5
1.0
7.2
3.8
15.0
9.7
15.0
11.4
20.8
0.1
3301L
3302L
383
JOFFRE 7
111.5
3.4
-51.2
SW
-38.5
-0.4
354
NOVA C17
355
NOVA C27
995
W.GRN TP
201.6
1.2
995L
155
BENALTO4
200.8
-6.2
200.4
-10.2
SW
-117.9
239.8
2.9
248.4
-2.8
334.7
40.4
900L
152
RED DEE4
244.5
-6.2
158.4
-29.7
111.6
-37.7
131.6
-26.0
-110.8
-68.4
-202.7
19.1
914L
889L
-5.0
-2.6
398
BROOKFLD
139.6
-12.6
5.0
2.5
3354
NOVA GT1
3357
NOVA ST1
3355
NOVA GT2
JOFFRE INFLOW = 202.4 MW
JOFFRE OUTFLOW = -139.2 MW
P3s = 111.5 MW
99700
INNISFAIL_NE
244.6
-8.4
62.1
8.3
28.1
-8.0
135.7
10.4
120
INNISFA7
123
DIDSBURY
80L
166L
121
OLDS 7
135.2
-11.8
13.5
4.7
23.0
7.9
17.2
4.3
17.2
4.3
6.7
17.0
918L
929L
925L
901L
988
CROSSFT
244.2
-10.6
912L
1422
NEVIS 4
252.7
-4.0
928L
906L
957
166L JNCT
136.2
-11.9
-7.3
0.2
2.7
-5.0
166AL
73.1
-26.0
87.1
9.7
136.3
-11.8
243.7
-9.0
9000
DIDSBURY_NEW
126
SHELL H7
136.1
-11.9
-4.6
-5.0
166AL
124
HARMATT7
136.4
-11.9
SW
-26.4
4.6
4.7
982
MADDEN T
136.0
-14.2
-146.2
-10.6
187
BEDDING1
241.2
-13.6
932L
-94.1
14.6
-78.5
25.7
160
JANET 4
227.1
199.3
SW
-273.2
161
SARCEE 4
SW
-204.5
16.6
55.2
162
E CALGAR
916L
917L
RED DEER REGION STUDY
2012 WINTER PEAK BASE CASE REVISION 6.5
FIG 2012-ALT2-LOAD-WP-C7-22: 775L(PRENTISS 276S TO JOFFRE 53
759L(PRENTISS 276S TO GAETZ 87S) OUTAGE(NOVA OFF)
WED, MAR 02 2011 9:17
Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000
<=138.000
>500.000
<=34.500
<=240.000
<=500.000
D-2012-570



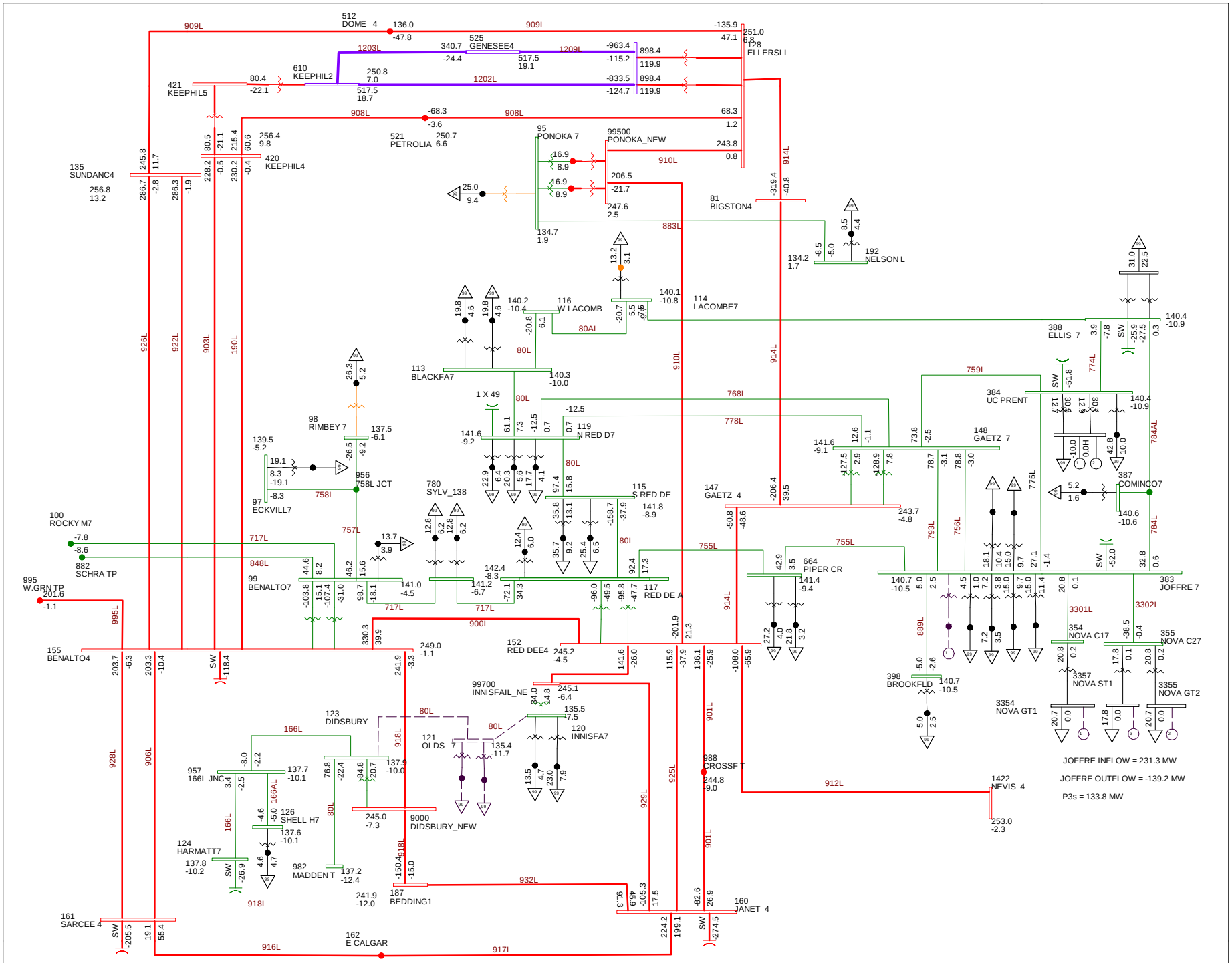
RED DEER REGION STUDY

2012 WINTER PEAK BASE CASE REVISION 6.5

FIG 2012-ALT2-LOAD-WP-C7-23: 774L(PRENTISS 276S TO ELLIS 332 759L(PRENTISS 276S TO GAETZ 87S) OUTAGE(NOVA OFF)
WED, MAR 02 2011 9:17

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-571

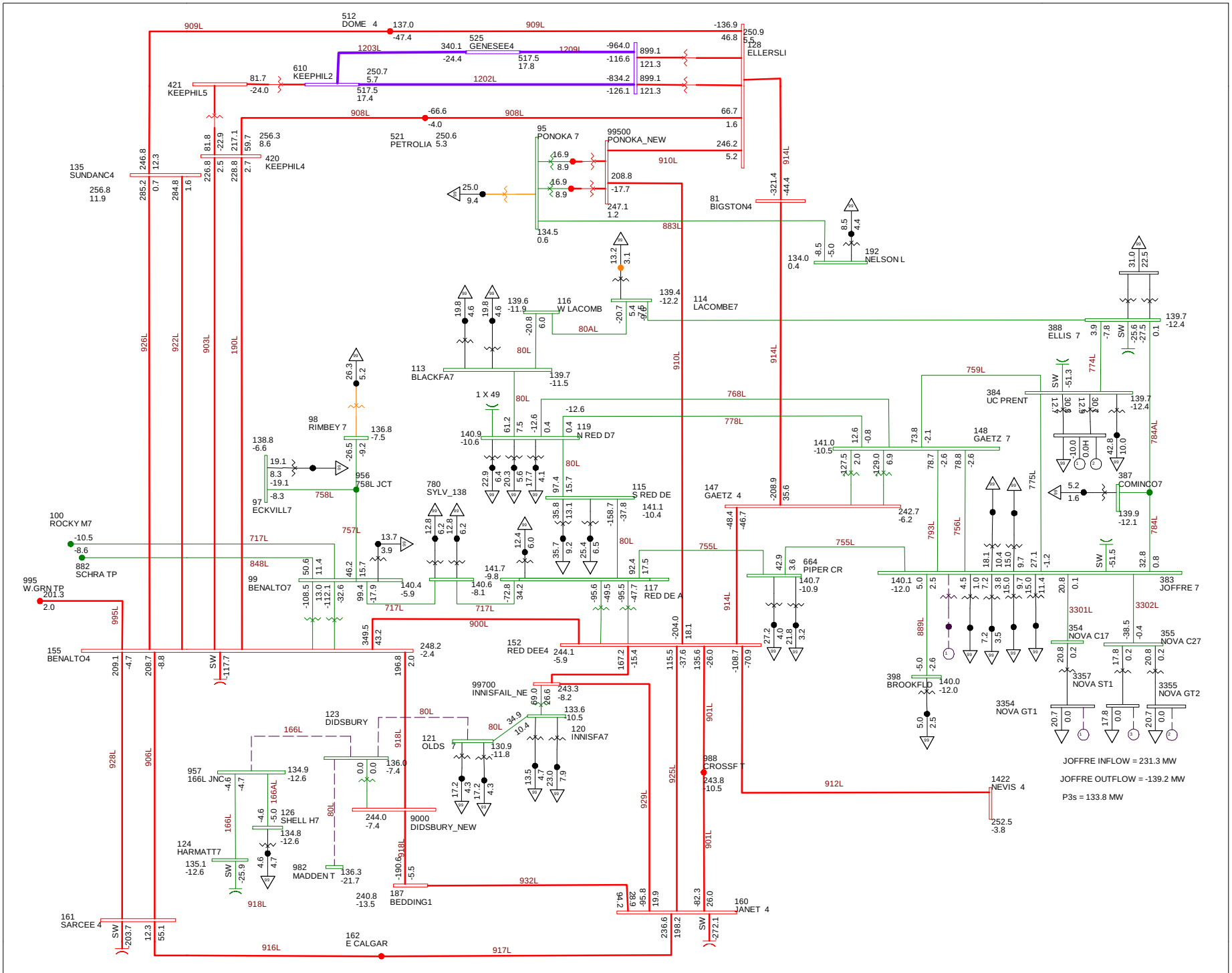


RED DEER REGION STUDY
2012 WINTER PEAK BASE CASE REVISION 6.5

FIG 2012-ALT2-LOAD-WP-C7-24: 80L(OLDS 55S VIA INNISFAIL 214S 80L(OLDS 55S TO DIDSBURY 152S) OUTAGE(NOVA OFF)
WED, MAR 02 2011 9:17

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-572



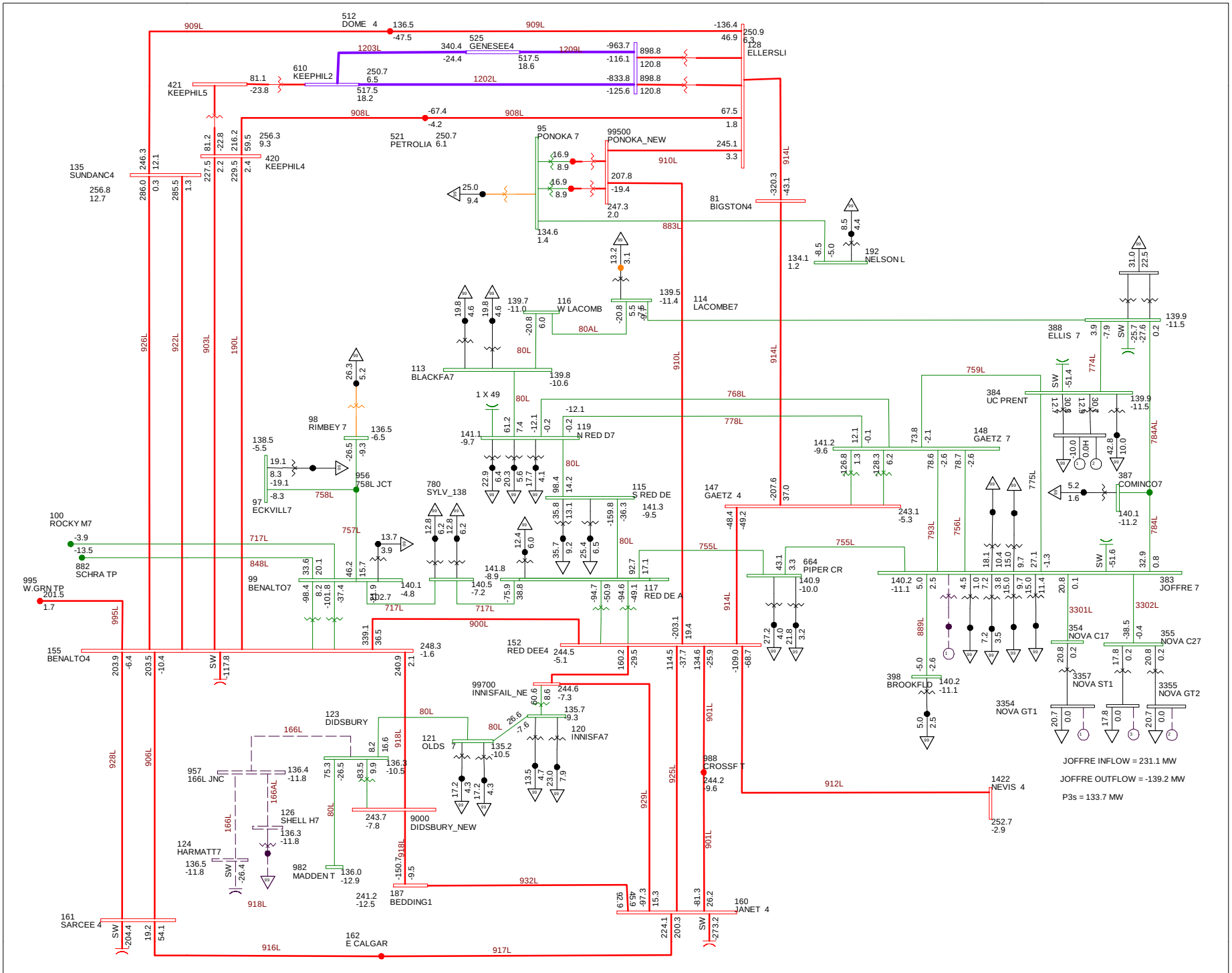
RED DEER REGION STUDY

2012 WINTER PEAK BASE CASE REVISION 6.5

FIG 2012-ALT2-LOAD-WP-C7-25: 80L(OLDS 55S TO DIDSBURY 152S)
80L(DIDSBURY 152S TO TO MADDEN 373S) & 166L(DIDSBURY 152S T
WED, MAR 02 2011 9:17

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-573



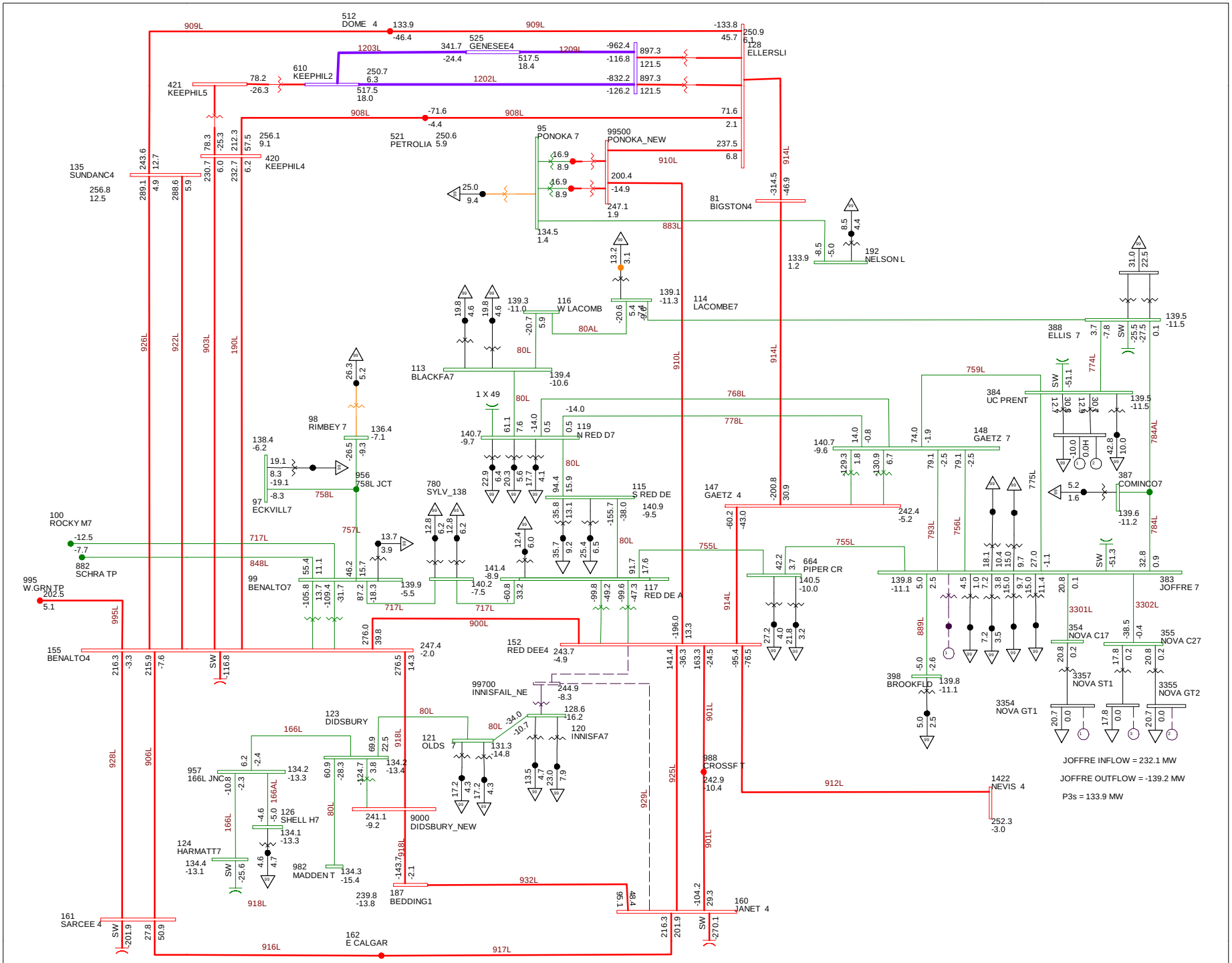
RED DEER REGION STUDY

2012 WINTER PEAK BASE CASE REVISION 6.5

FIG 2012-ALT2-LOAD-WP-C7-26: 166L(HARMATTAN 256S TO SHELL HA 166L(HARMATTAN 256S TO SHELL EAGLE CR. 412S TO SUNDRE 575S)
WED, MAR 02 2011 9:17

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-574



RED DEER REGION STUDY

2012 WINTER PEAK BASE CASE REVISION 6.5

FIG 2012-ALT2-LOAD-WP-C7-27: 929L(RED DEER 63S TO INNISFAIL 929L(INNISFAIL 214S TO JANET 74S) OUTAGE(NOVA OFF)
WED, MAR 02 2011 9:17

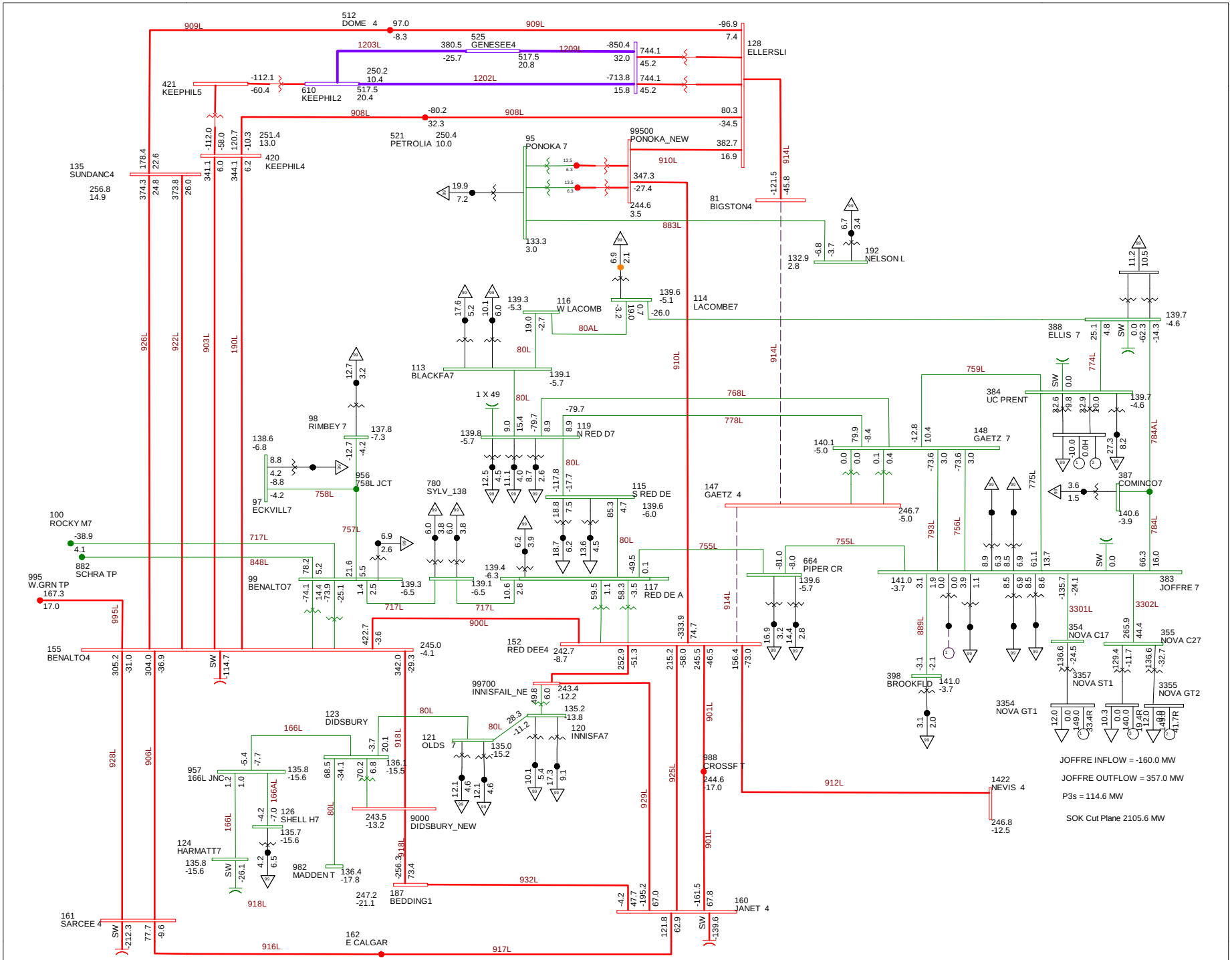
Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-575

Table D-2012-15: Summary of 2012 Load Adequacy Power Flow Analysis - Alternative 2 Category C7 (SP with High SOK Plane)

Figure No.	Contingency	Overloaded Element	Percent Overload	Other System Performance Concerns	SPS
Summer Peak					
Fig 2012-Alt2-Load-SP-C7-1 (High SOK)	914L(Gaetz 87S to Red Deer 63S) 914L(Gaetz 87S to Bigstone 86S)	None	N/A	None	None
Fig 2012-Alt2-Load-SP-C7-2 (High SOK)	793L(Gaetz 87S to Joffre 535S) 778L(Gaetz 87S to N.Red Deer 217S)	None	N/A	None	None
Fig 2012-Alt2-Load-SP-C7-3 (High SOK)	778L(Gaetz 87S to N. Red Deer 217S) 759L(Gaetz 87S to Prentiss 276S)	None	N/A	None	None
Fig 2012-Alt2-Load-SP-C7-4 (High SOK)	80L(S. Red Deer 194S to N. Red Deer 217S) 80L(S. Red Deer 194S to Red Deer 63S)	None	N/A	None	None
Fig 2012-Alt2-Load-SP-C7-5 (High SOK)	80L(Blackfalds 198S to W. Lacombe 958S) 80L(Blackfalds 198S to N. Red Deer 217S)	None	N/A	None	None
Fig 2012-Alt2-Load-SP-C7-6 (High SOK)	80L(N. Red Deer 217S to Gaetz 87S) 80L(Blackfalds 198S to N. Red Deer 217S)	None	N/A	None	None
Fig 2012-Alt2-Load-SP-C7-7 (High SOK)	755L(Piper Cr. 274S to Red Deer 63S) 755L(Piper Cr. 274S to Joffre 535S)	None	N/A	None	None
Fig 2012-Alt2-Load-SP-C7-8 (High SOK)	New Line(N.E.Lacombe 212S to Ellis 332S) 784L(Ellis 332S to Haynes 482S to Joffre 535S)	None	N/A	None	None
Fig 2012-Alt2-Load-SP-C7-9 (High SOK)	717L(Benalto 17S to Sylvan Lake 580S) 717L(Red Deer 63S to Sylvan Lake 580S)	None	N/A	None	None
Fig 2012-Alt2-Load-SP-C7-10 (High SOK)	900L(Red Deer 63S to Benalto 17S) 925L(Red Deer 63S to Janet 74S)	None	N/A	None	None
Fig 2012-Alt2-Load-SP-C7-11 (High SOK)	901L(Red Deer 63S to Crossfield 64S) 910L(Red Deer 63S to Ponoka 331S)	None	N/A	None	None
Fig 2012-Alt2-Load-SP-C7-12 (High SOK)	914L(Red Deer 63S to Gaetz 87S) 912L(Red Deer 63S to Nevis 766S)	None	N/A	None	None
Fig 2012-Alt2-Load-SP-C7-13 (High SOK)	755L(Red Deer 63S to Piper Cr. 274S) 717L(Red Deer 63S to Sylvan Lake 580S)	None	N/A	None	None
Fig 2012-Alt2-Load-SP-C7-14 (High SOK)	903L(Benalto 17S to Keephills 320P) 928L(Benalto 17S to Sarcee 42S)	None	N/A	None	None
Fig 2012-Alt2-Load-SP-C7-15 (High SOK)	190L(Benalto 17S to Keephills 320P) 918L(Benalto 17S to Didsbury 152S)	None	N/A	None	None

Figure No.	Contingency	Overloaded Element	Percent Overload	Other System Performance Concerns	SPS
Fig 2012-Alt2-Load-SP-C7-16 (High SOK)	922L(Benalto 17S to Sundance 310P) 906L(Benalto 17S to Sarcee 42S)	None	N/A	None	None
Fig 2012-Alt2-Load-SP-C7-17 (High SOK)	757L(Benalto 17S to Eckville 534S to Rimbey 297S) 717L(Benalto 17S to Sylvan Lake 580S) 717L (Benalto 17S to Rocky 262S)	None	N/A	None	None
Fig 2012-Alt2-Load-SP-C7-18 (High SOK)	784L(Joffre 535S to Haynes 482S to Ellis 332S) 775L(Joffre 535S to Prentiss 276S)	None	N/A	None	None
Fig 2012-Alt2-Load-SP-C7-19 (High SOK)	756L(Joffre 535S to Gaetz 87S) 1330L (Joffre 535S to Nova 355S	None	N/A	None	None
Fig 2012-Alt2-Load-SP-C7-20 (High SOK)	755L(Joffre 535S to Piper Creek 247S) 1330L(Joffre 535S to Nova 355S)	None	N/A	None	None
Fig 2012-Alt2-Load-SP-C7-21 (High SOK)	80AL(N.E.Lacombe 212S to W. Lacombe 958S) New line (N.E.Lacombe 212S to Ellis 332S)	None	N/A	None	None
Fig 2012-Alt2-Load-SP-C7-22 (High SOK)	775L(Prentiss 276S to Joffre 535S) 759L(Prentiss 276S to Gaetz 87S)	None	N/A	None	None
Fig 2012-Alt2-Load-SP-C7-23 (High SOK)	774L(Prentiss 276S to Ellis 332S) 759L(Prentiss 276S to Gaetz 87S)	None	N/A	None	None
Fig 2012-Alt2-Load-SP-C7-24 (High SOK)	80L(Olds 55S to Innisfail 214S) 80L(Olds 55S to Didsbury 152S)	None	N/A	None	None
Fig 2012-Alt2-Load-SP-C7-25 (High SOK)	80L(Olds 55S to Didsbury 152S) 80L(Didsbury 152S to Madden 373S) 166L(Didsbury 152S to Harmattan 256S)	None	N/A	None	None
Fig 2012-Alt2-Load-SP-C7-26 (High SOK)	166L(Harmattan 256S to Shell Harmattan 238S to Didsbury 152S) 166L(Harmattan 256S to Shell Eagle Cr. 412S to Sundre 575S)	None	N/A	None	None
Fig 2012-Alt2-Load-SP-C7-27 (High SOK)	929L(Red Deer 63S to Innisfail 214S) 929L(Innisfail 214S to Janet 74S) Outage	None	N/A	None	None

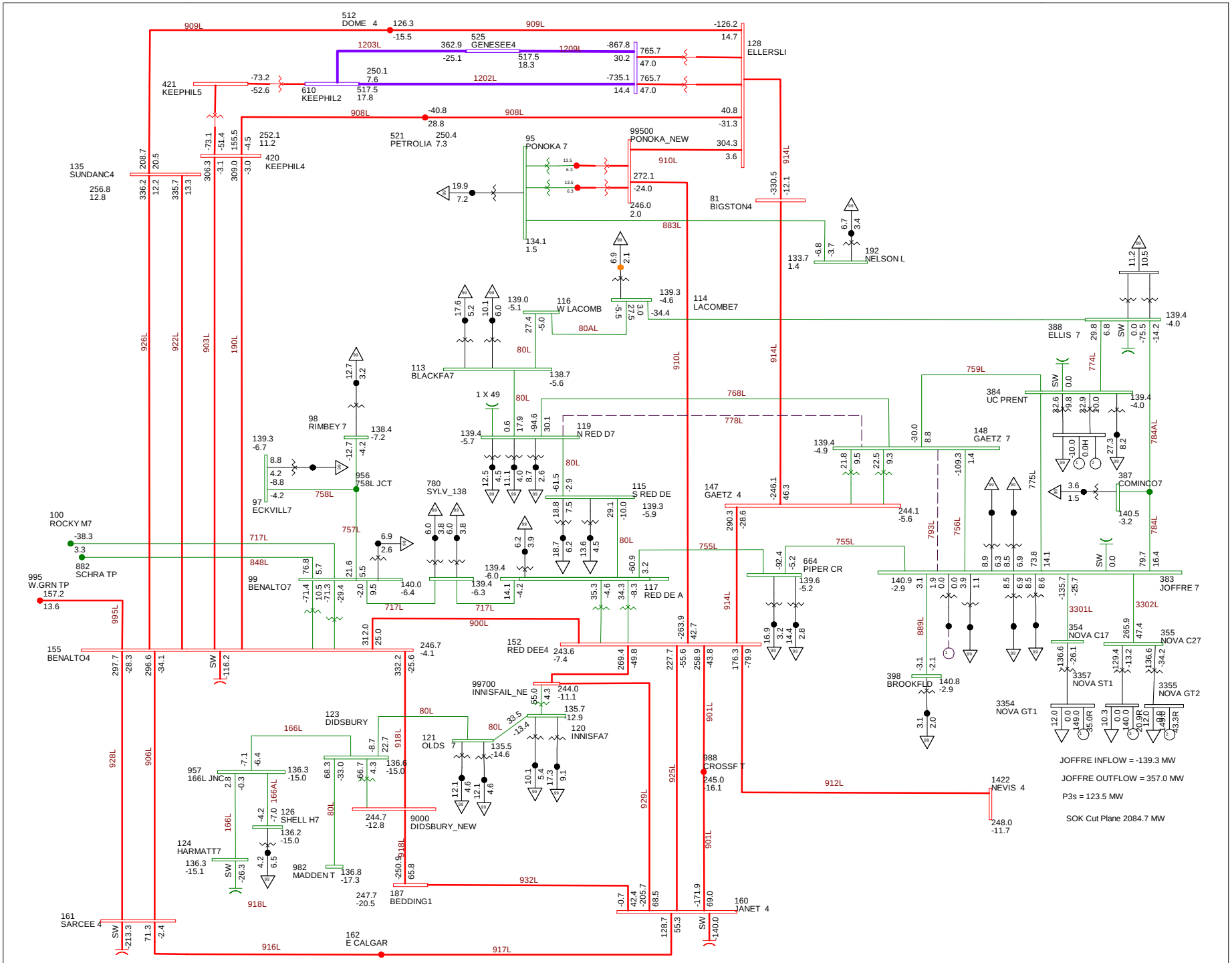


RED DEER REGION STUDY
2012 S3_SOK_PK (2012 SUMMER PEAK CASE)

FIG 2012-ALT2-LOAD-SP-C7-1(HIGH SOK): 914L(GAETZ 87S TO RED 914L(GAETZ 87S TO BIGSTONE 86S) OUTAGE
WED, MAR 02 2011 9:00

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-578

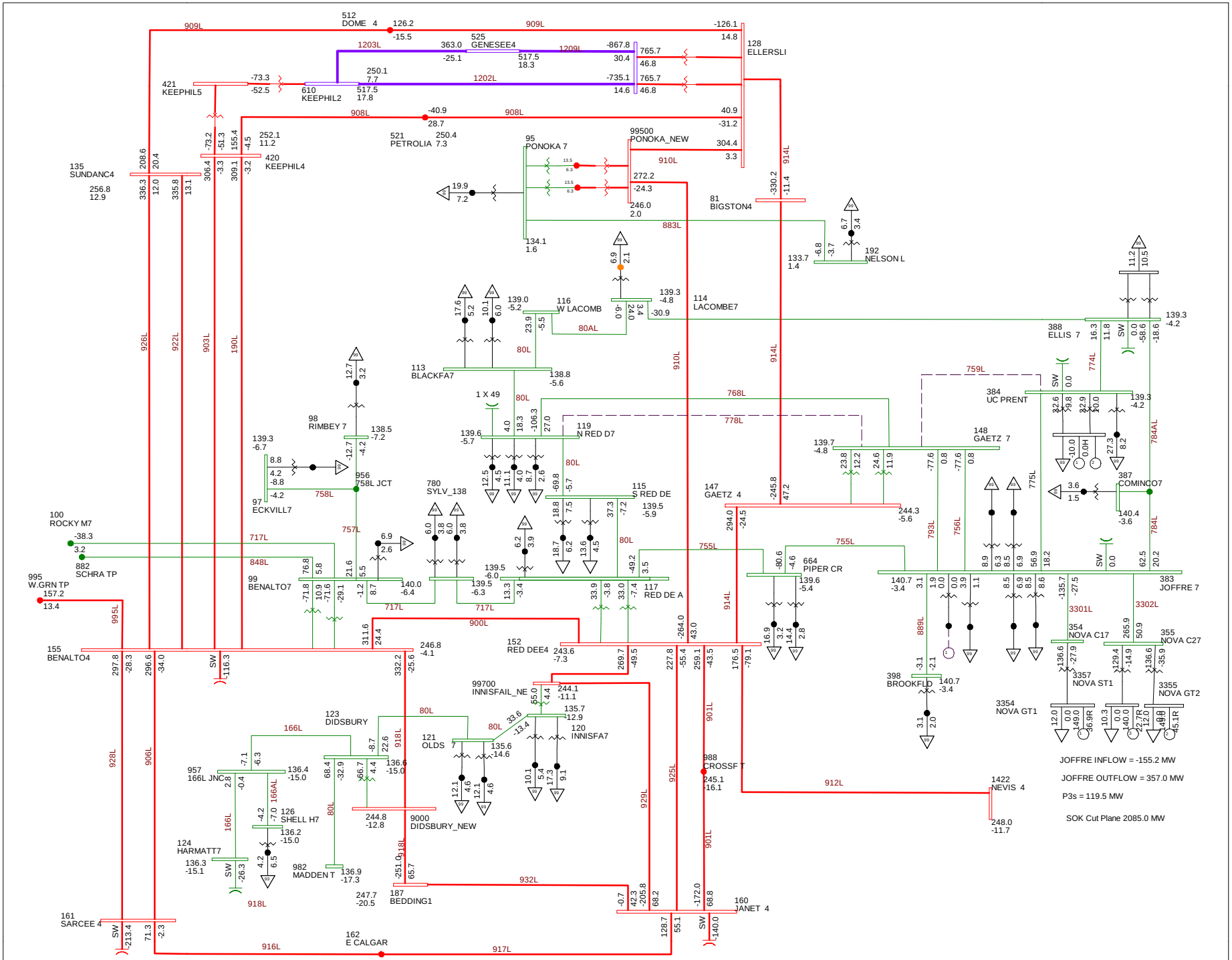


RED DEER REGION STUDY
2012 S3_SOK_PK (2012 SUMMER PEAK CASE)

FIG 2012-ALT2-LOAD-SP-C7-2(HIGH SOK): 793L(GAETZ 87S TO JOFF 778L(GAETZ 87S TO N.RED DEER 217S) OUTAGE
WED, MAR 02 2011 9:00

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-579

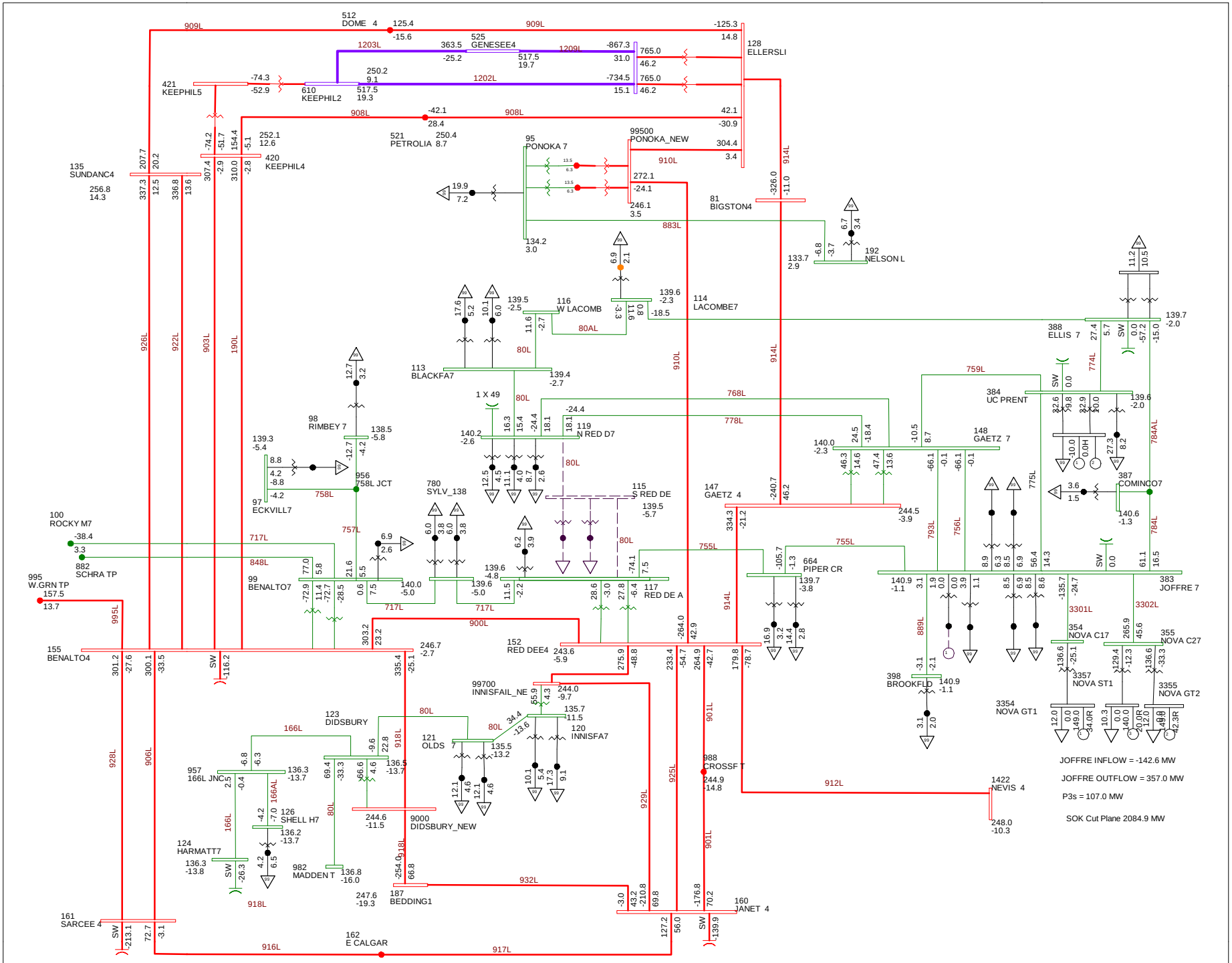


RED DEER REGION STUDY
2012 S3_SOK_PK (2012 SUMMER PEAK CASE)

FIG 2012-ALT2-LOAD-SP-C7-3(HIGH SOK): 778L(GAETZ 87S TO N. R 759L(GAETZ 87S TO PRENTISS 276S) OUTAGE
WED, MAR 02 2011 9:00

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-580

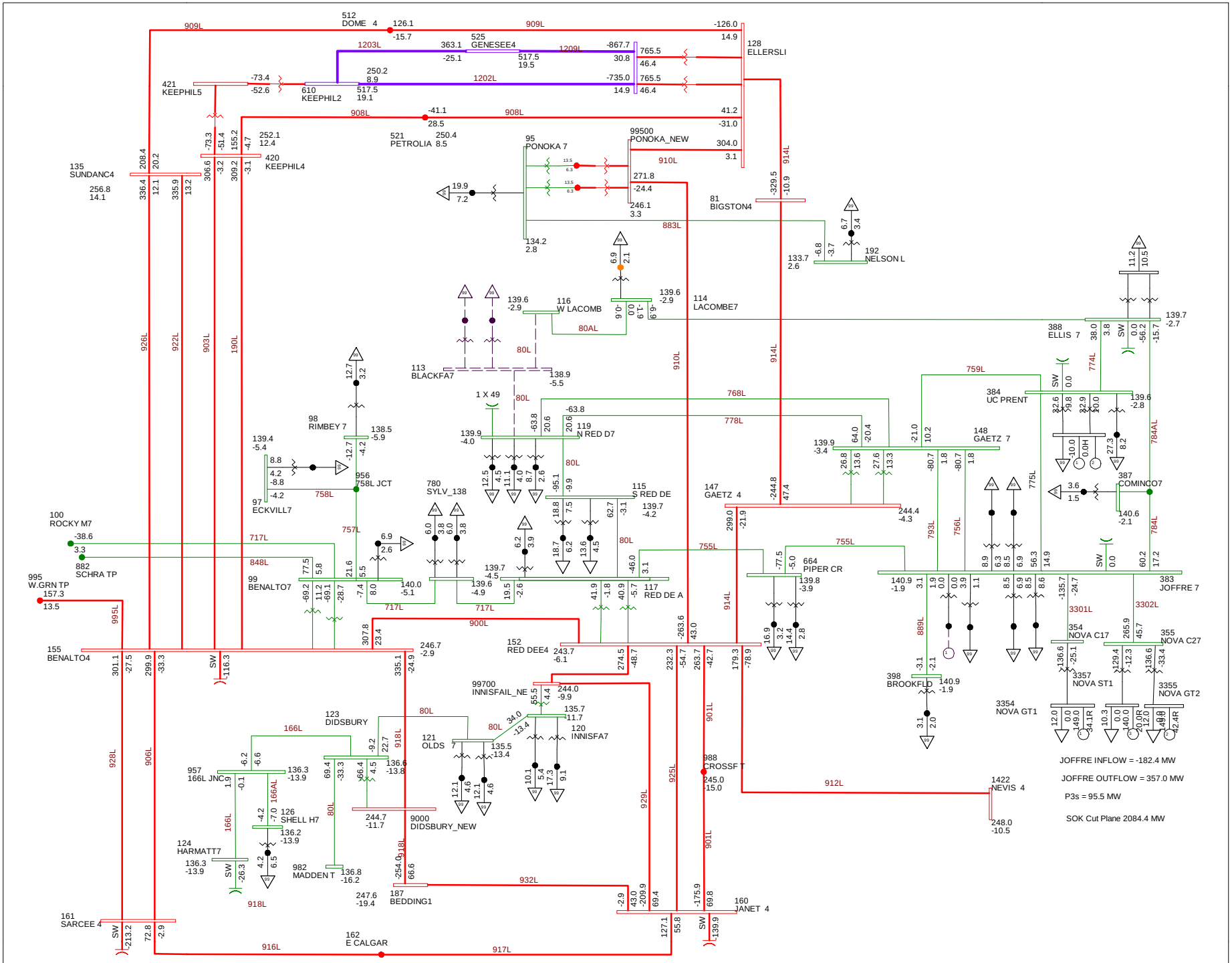


RED DEER REGION STUDY
2012 S3_SOK_PK (2012 SUMMER PEAK CASE)

FIG 2012-ALT2-LOAD-SP-C7-4(HIGH SOK): 80L(S. RED D. 194S TO 80L(S. RED D. 194S TO RED DEER 63S) OUTAGE
WED, MAR 02 2011 9:00

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-581

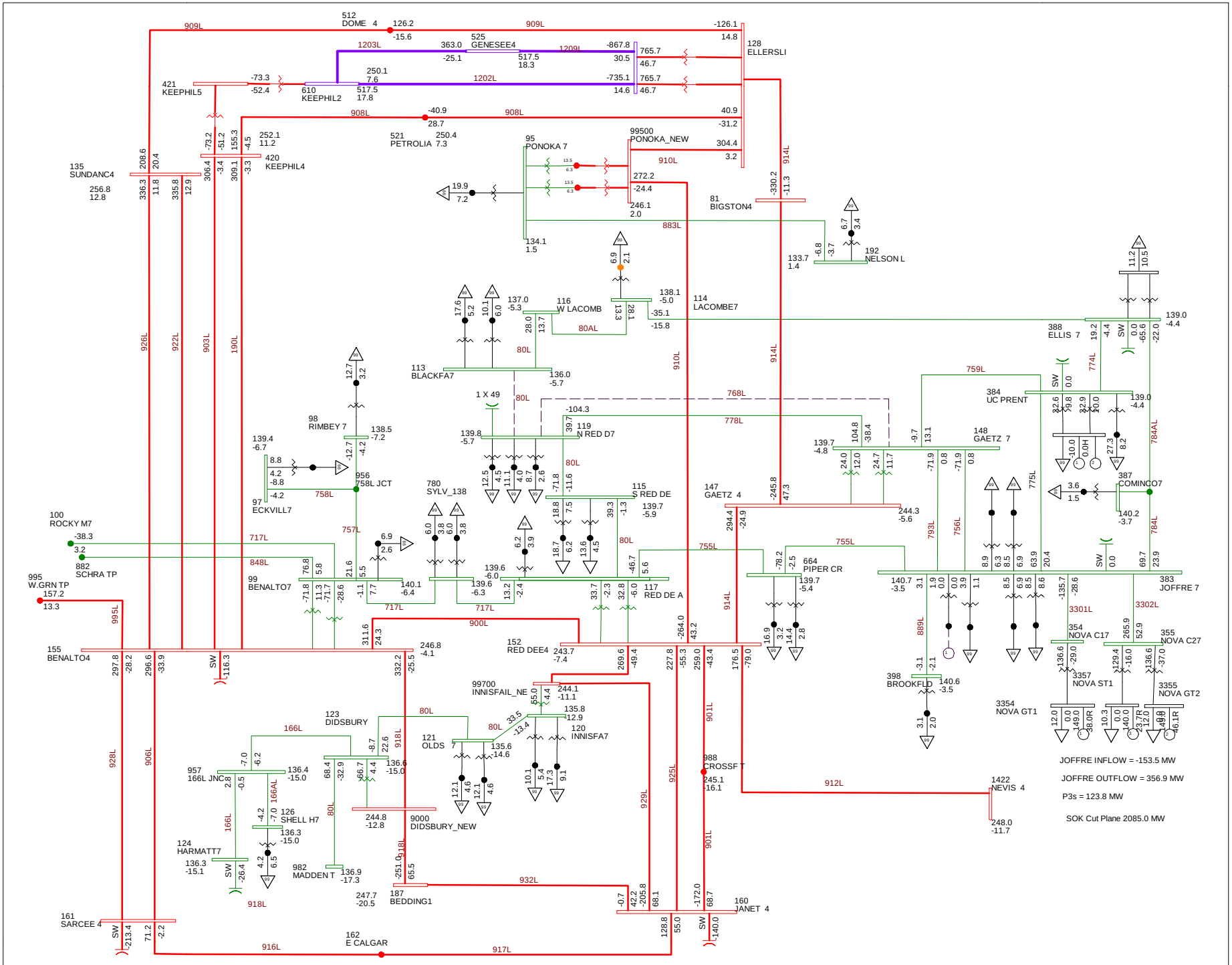


RED DEER REGION STUDY
2012 S3_SOK_PK (2012 SUMMER PEAK CASE)

FIG 2012-ALT2-LOAD-SP-C7-5(HIGH SOK): 80L(BLACKFALDS 198S TO 80L(BLACKFALDS 198S TO N. RED D. 217S) OUTAGE
WED, MAR 02 2011 9:00

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-582

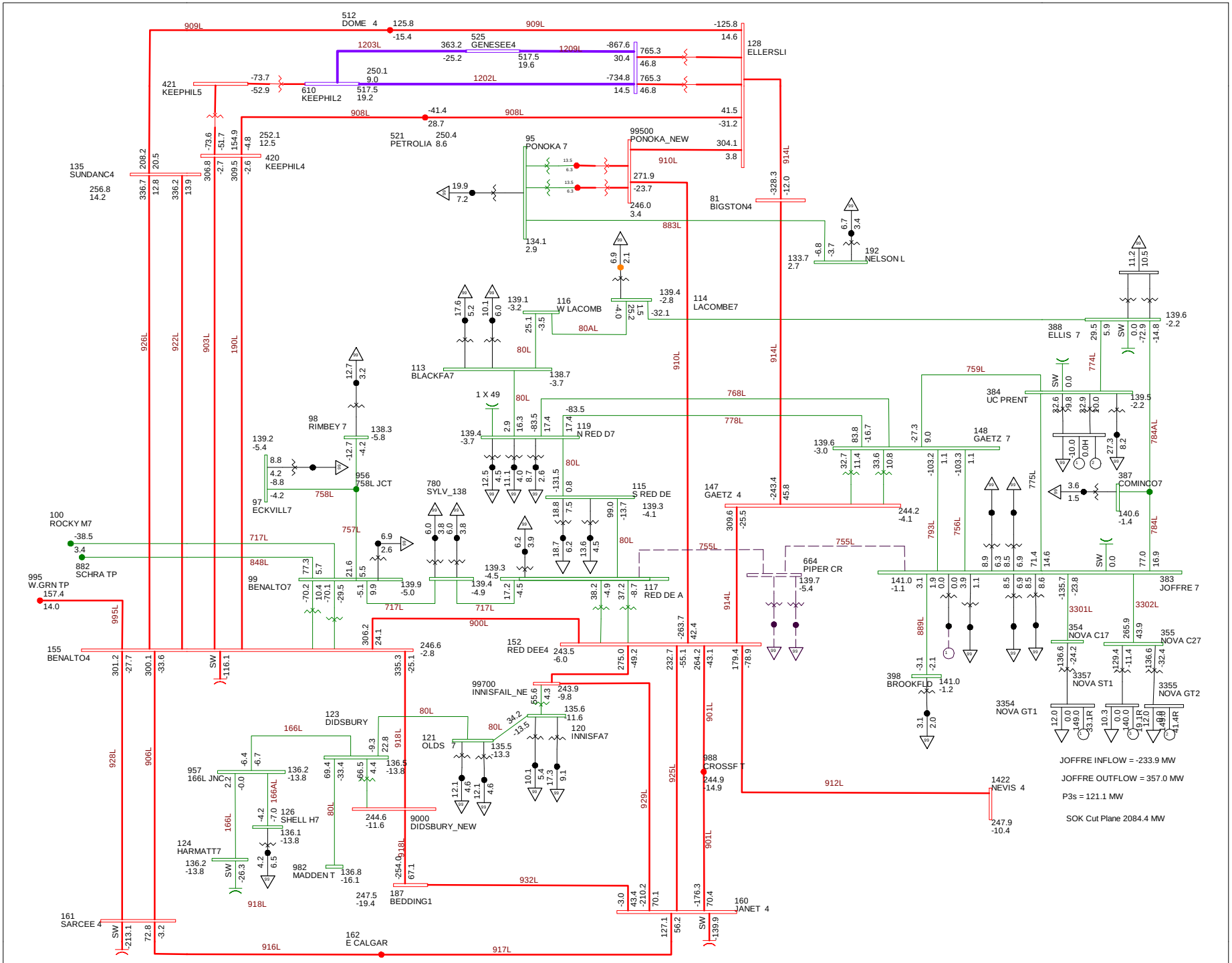


RED DEER REGION STUDY
2012 S3_SOK_PK (2012 SUMMER PEAK CASE)

FIG 2012-ALT2-LOAD-SP-C7-6(HIGH SOK): 80L(N. RED D. 217S TO 80L(BLACKFALDS 198S TO N. RED D. 217S) OUTAGE
WED, MAR 02 2011 9:00

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-583

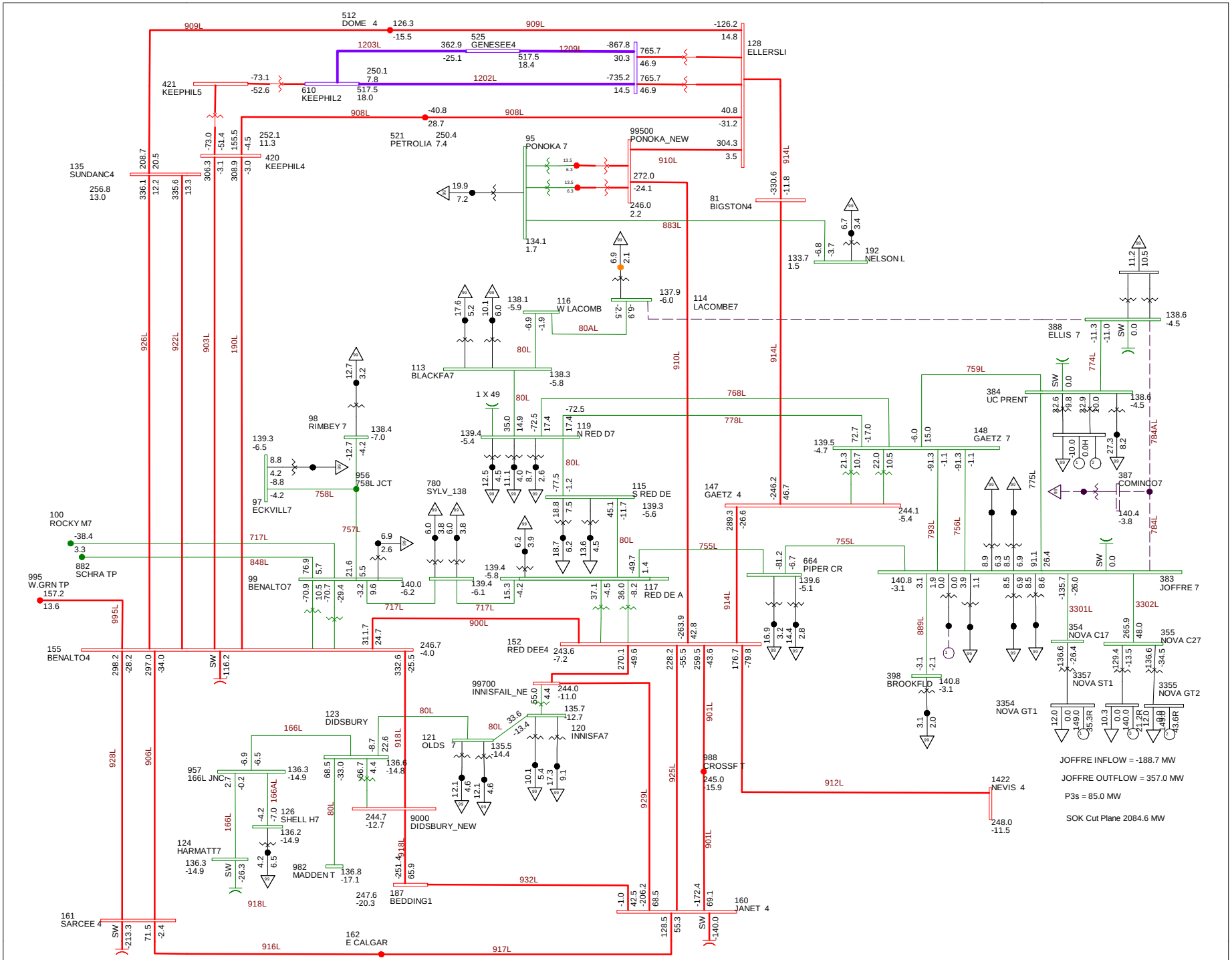


RED DEER REGION STUDY
2012 S3_SOK_PK (2012 SUMMER PEAK CASE)

FIG 2012-ALT2-LOAD-SP-C7-7(HIGH SOK): 755L(PIPER CR. 274S TO 755L(PIPER CR. 274S TO JOFFRE 535S) OUTAGE
WED, MAR 02 2011 9:00

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-584



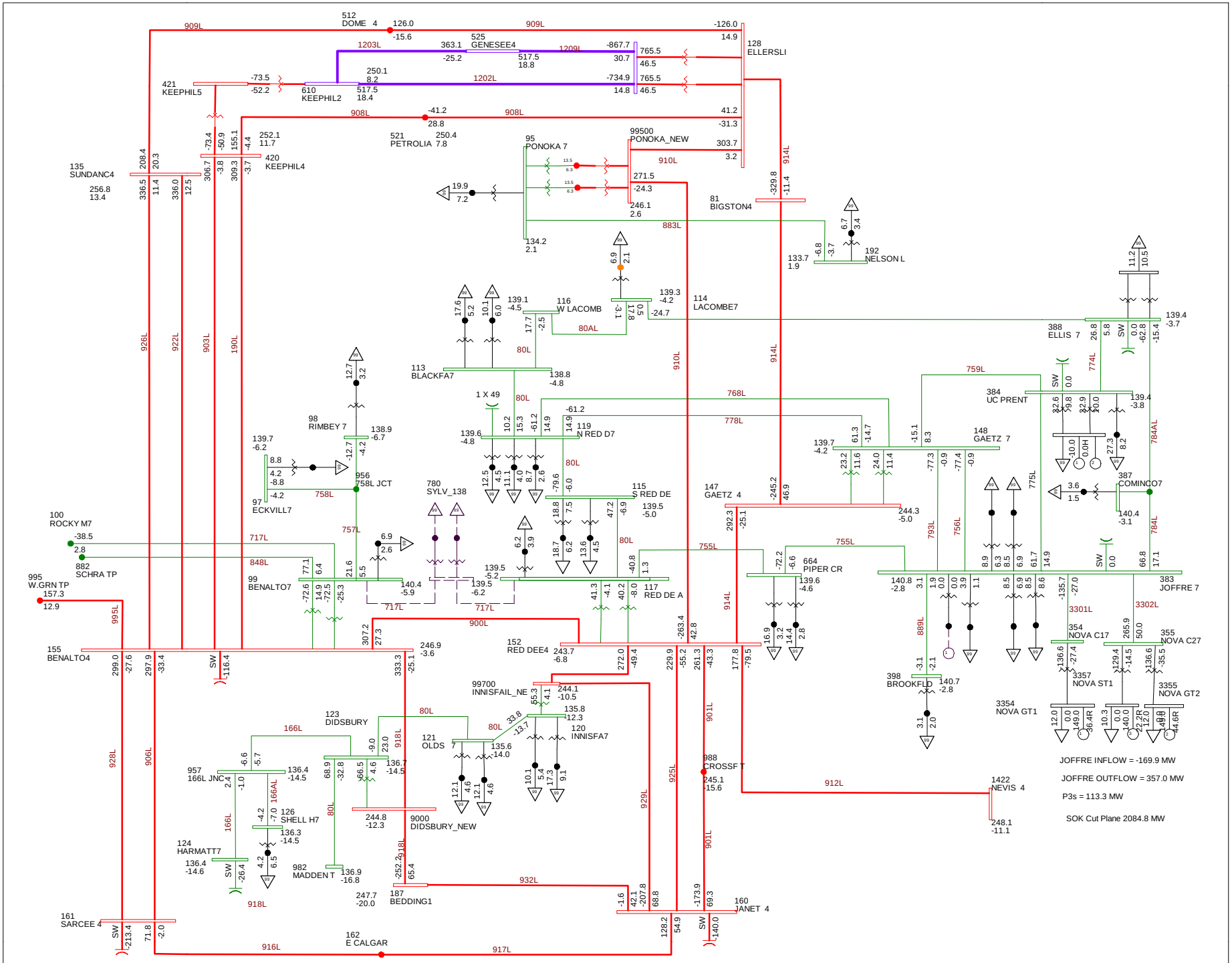
RED DEER REGION STUDY

2012 S3_SOK_PK (2012 SUMMER PEAK CASE)

FIG 2012-ALT2-LOAD-SP-C7-8(HIGH SOK): NEW LINE(N.E.LACOMBE 2 784L(ELLIS 332S TO HAYNES 482S TO JOFFRE 535S) OUTAGE
WED, MAR 02 2011 9:00

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-585



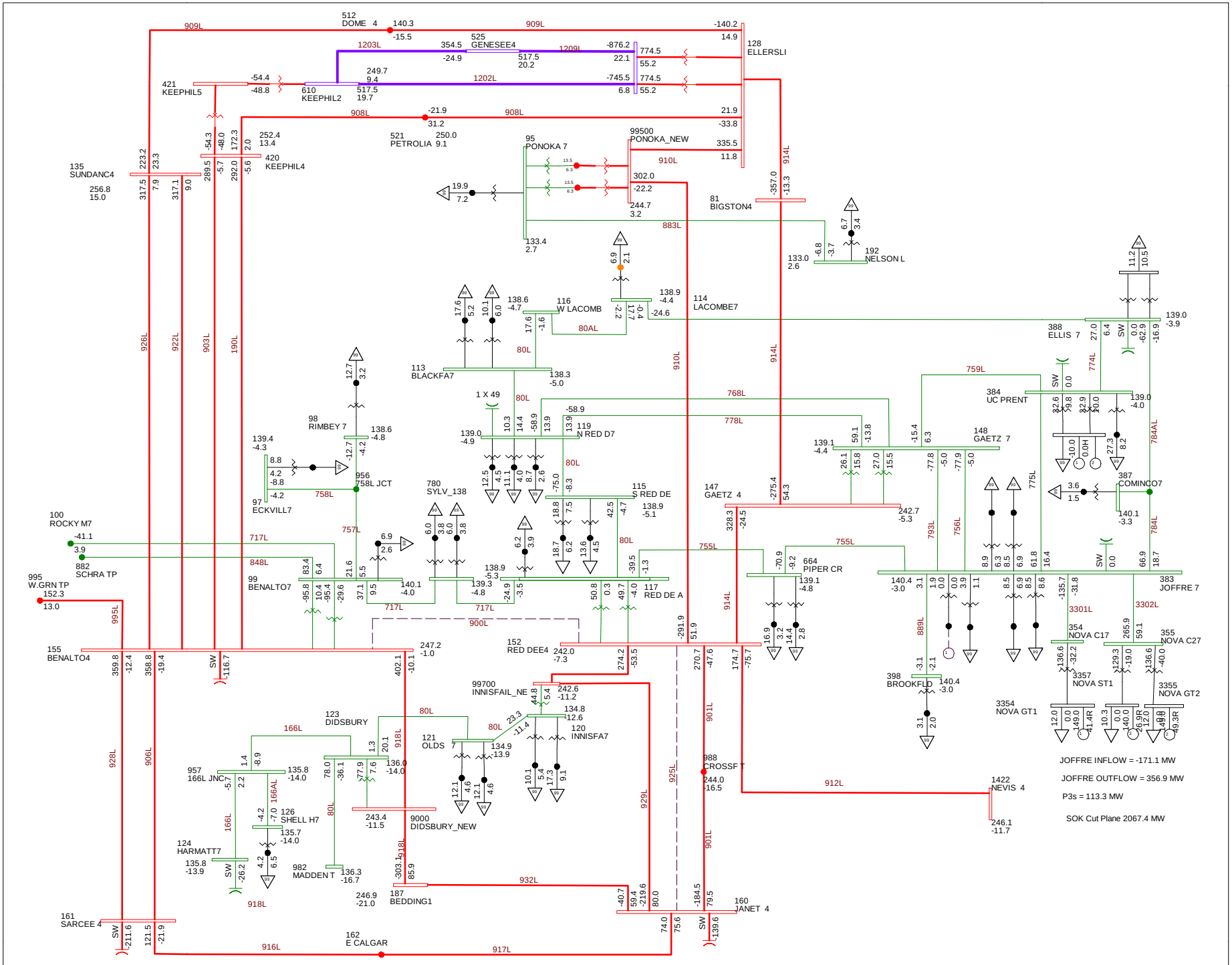
RED DEER REGION STUDY

2012 S3_SOK_PK (2012 SUMMER PEAK CASE)

FIG 2012-ALT2-LOAD-SP-C7-9(HIGH SOK): 717L(BENALTO 17S TO SY 717L(RED DEER 63S TO SYLVAN LAKE 580S) OUTAGE
WED, MAR 02 2011 9:00

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-586

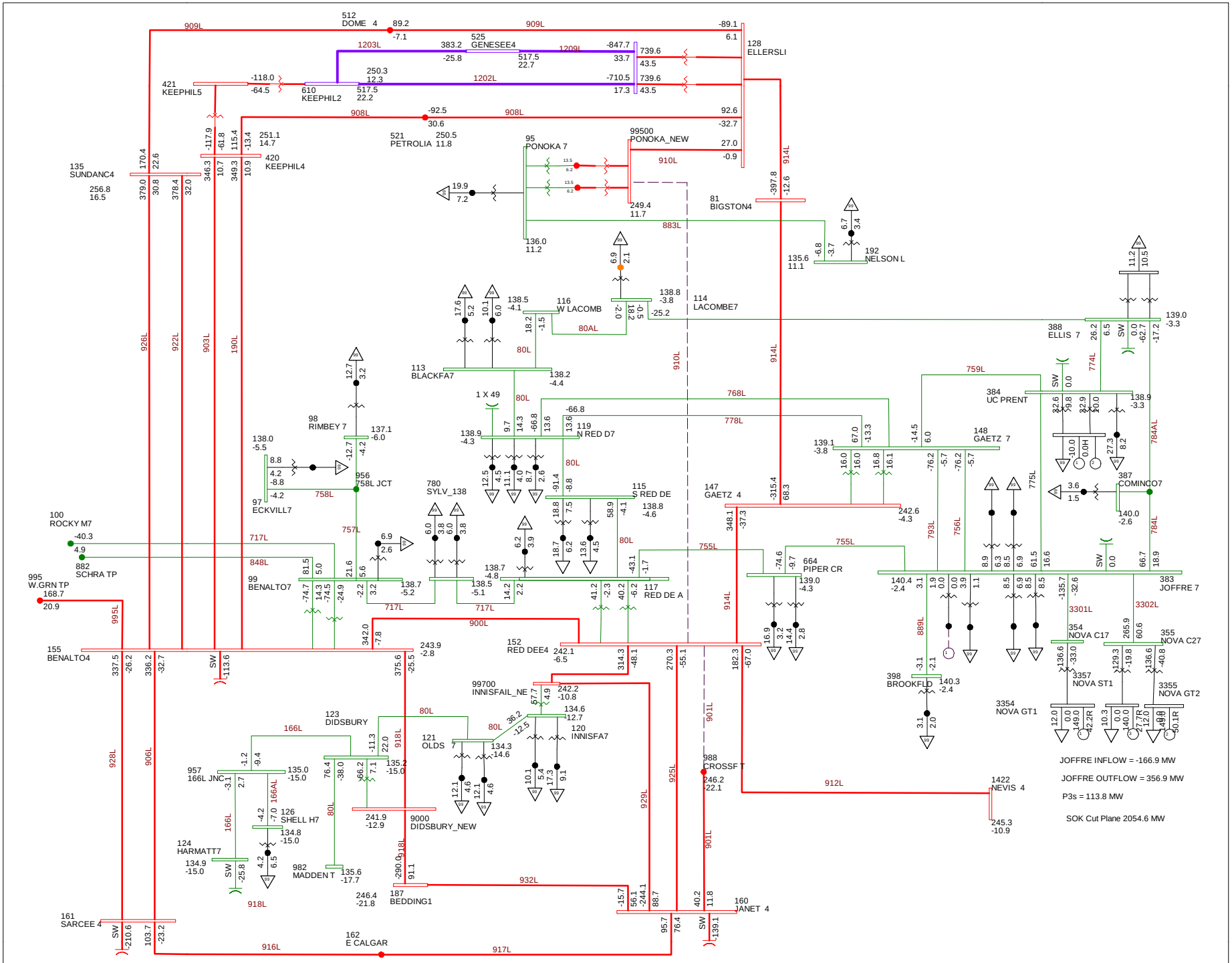


RED DEER REGION STUDY
2012 S3_SOK_PK (2012 SUMMER PEAK CASE)

FIG 2012-ALT2-LOAD-SP-C7-10(HIGH SOK): 900L(RED DEER 63S TO 925L(RED DEER 63S TO JANET 74S) OUTAGE
WED, MAR 02 2011 9:00

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-587

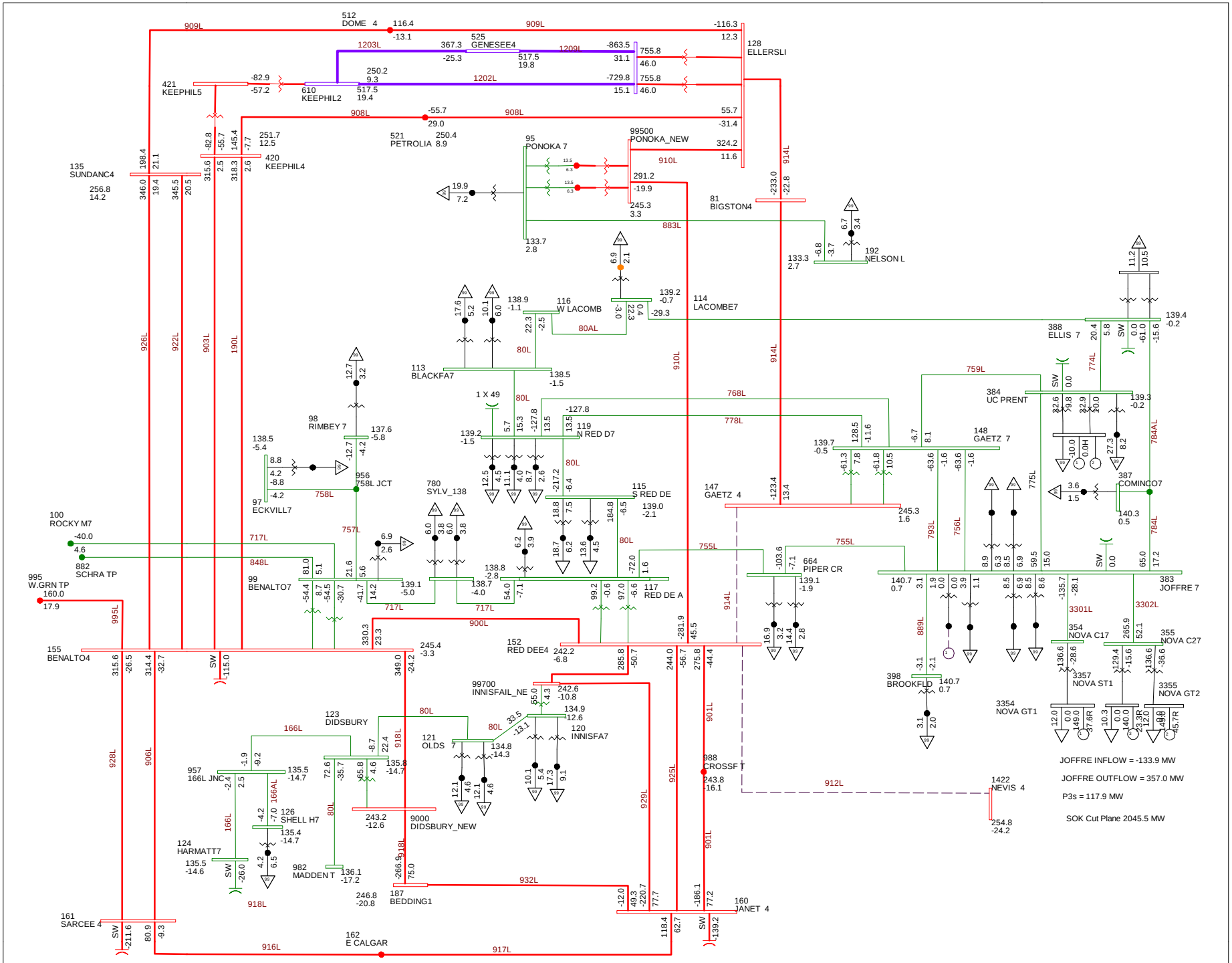


RED DEER REGION STUDY
2012 S3_SOK_PK (2012 SUMMER PEAK CASE)

FIG 2012-ALT2-LOAD-SP-C7-11(HIGH SOK): 901L(RED DEER 63S TO 910L(RED DEER 63S TO PONOKA 331S) OUTAGE
WED, MAR 02 2011 9:00

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-588

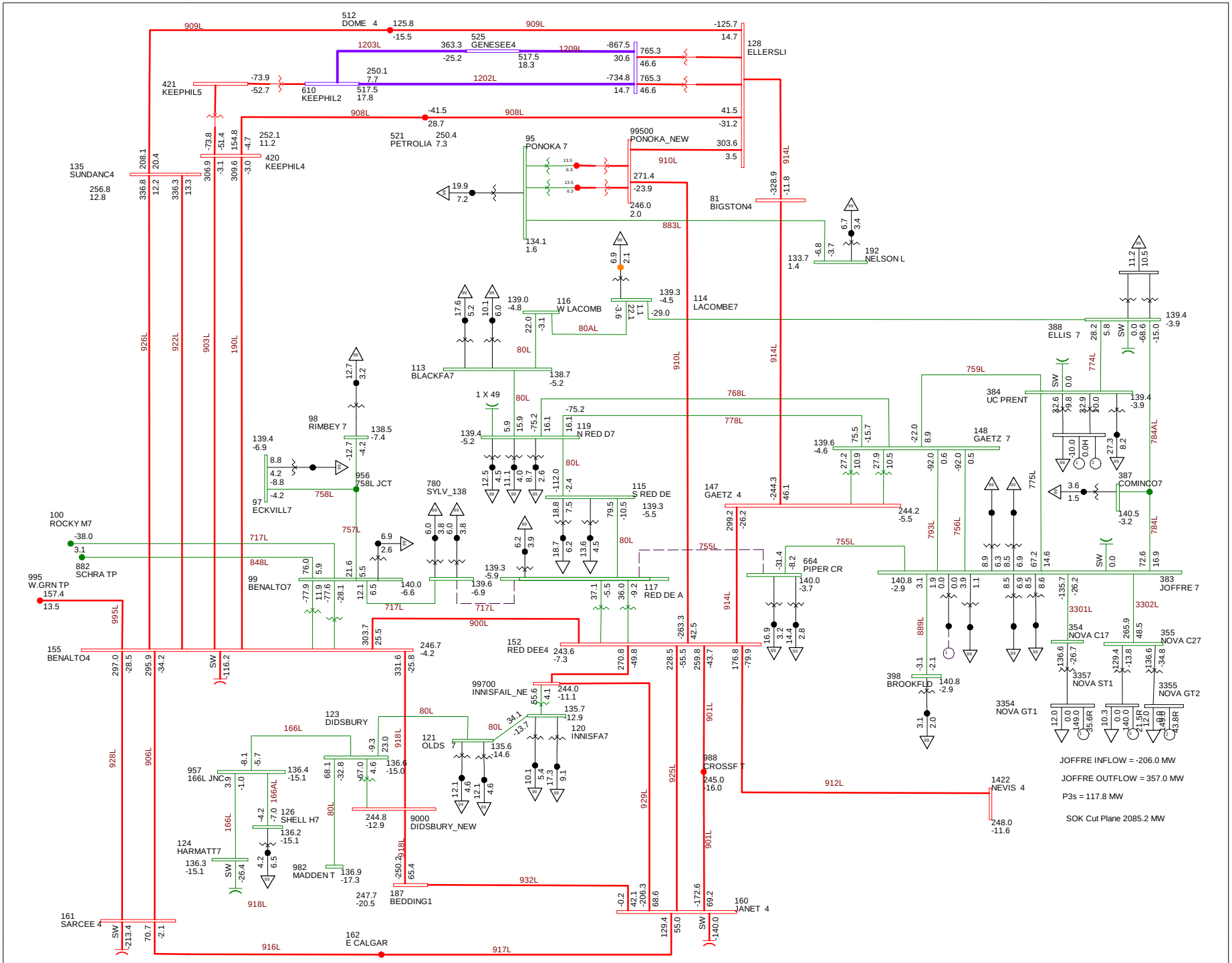


RED DEER REGION STUDY
2012 S3_SOK_PK (2012 SUMMER PEAK CASE)

FIG 2012-ALT2-LOAD-SP-C7-12(HIGH SOK): 914L(RED DEER 63S TO 912L(RED DEER 63S TO NEVIS 766S) OUTAGE
WED, MAR 02 2011 9:00

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-589



RED DEER REGION STUDY

2012 S3_SOK_PK (2012 SUMMER PEAK CASE)

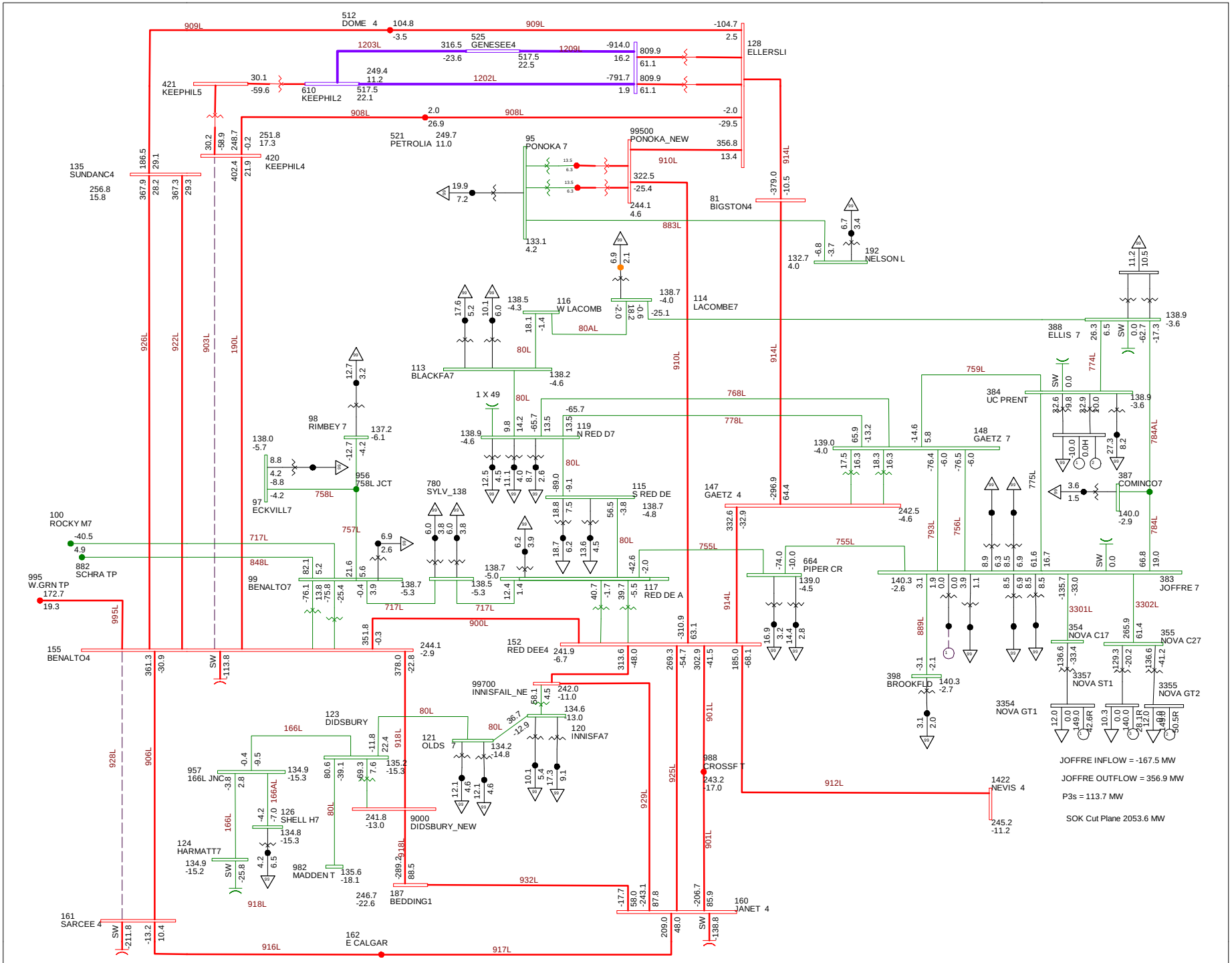
FIG 2012-ALT2-LOAD-SP-C7-13(HIGH SOK): 755L(RED DEER 63S TO 717L(RED DEER 63S TO SYLVAN LAKE 580S) OUTAGE

WED, MAR 02 2011 9:00

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR

<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-590

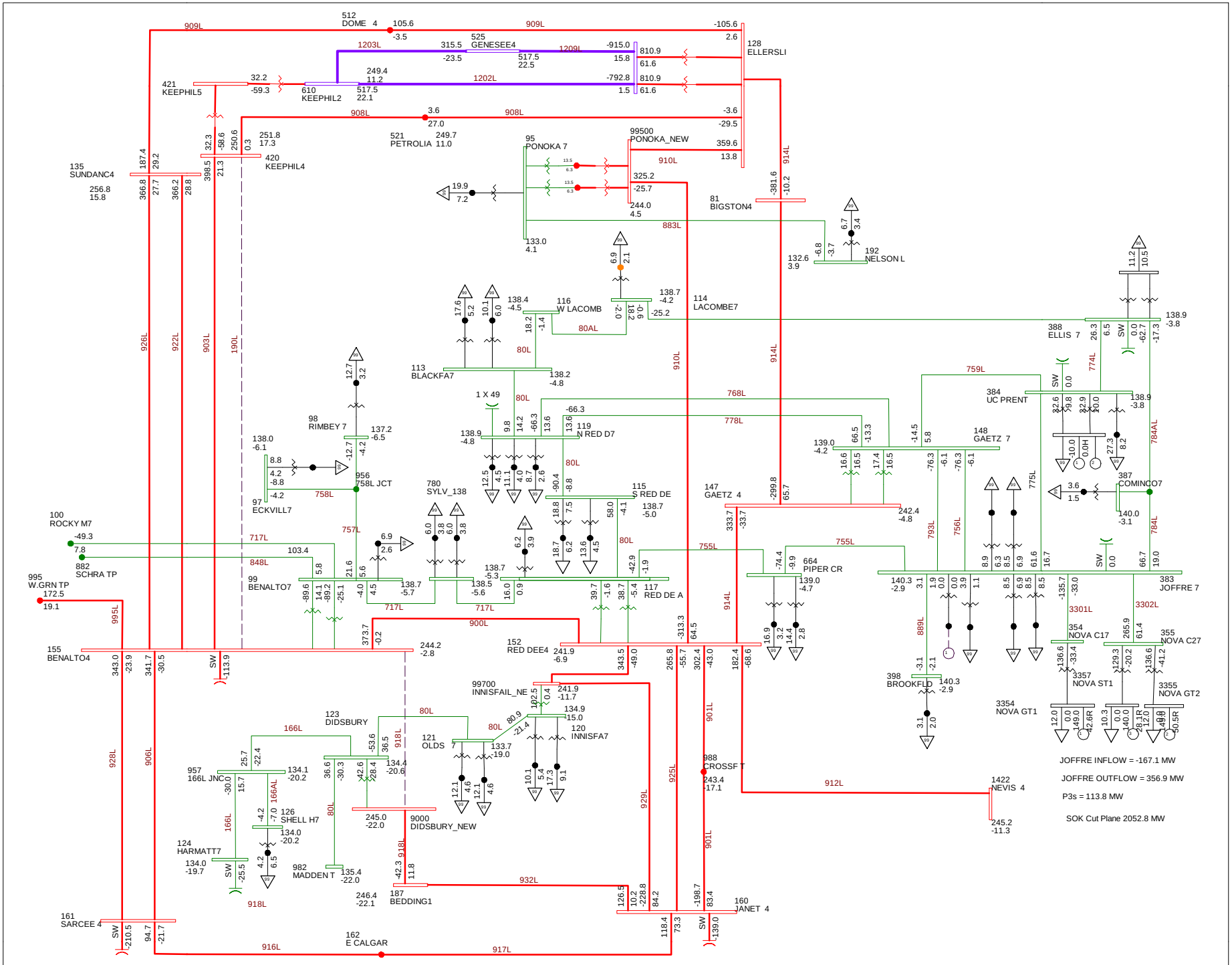


RED DEER REGION STUDY
2012 S3_SOK_PK (2012 SUMMER PEAK CASE)

FIG 2012-ALT2-LOAD-SP-C7-14(HIGH SOK): 903L(BENALTO 17S TO K 928L(BENALTO 17S TO SARCEE 42S) OUTAGE
WED, MAR 02 2011 9:00

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-591



RED DEER REGION STUDY

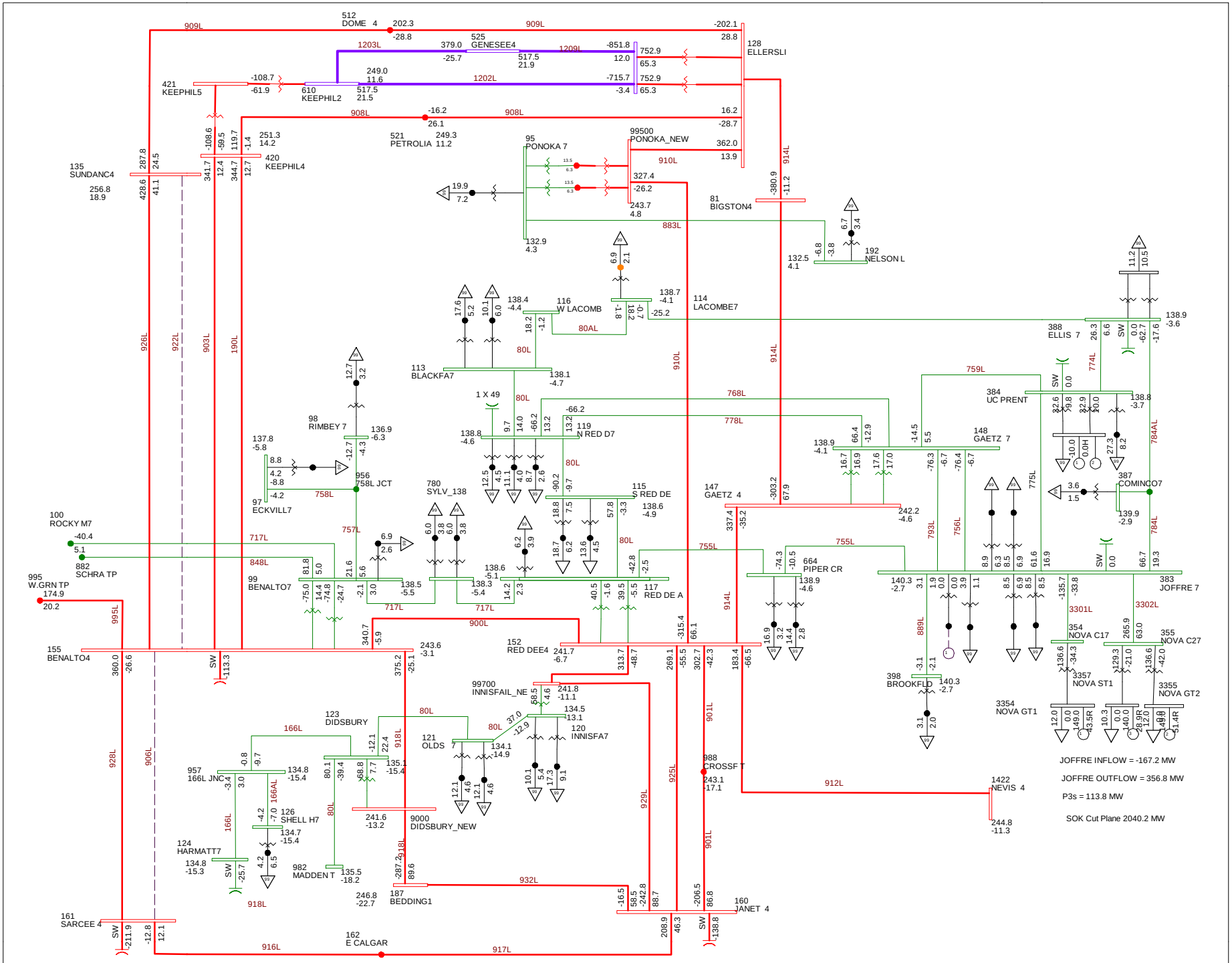
2012 S3_SOK_PK (2012 SUMMER PEAK CASE)

FIG 2012-ALT2-LOAD-SP-C7-15(HIGH SOK): 190L(BENALTO 17S TO K 918L(BENALTO 17S TO DIDSBURY 152S) OUTAGE

WED, MAR 02 2011 9:00

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-592



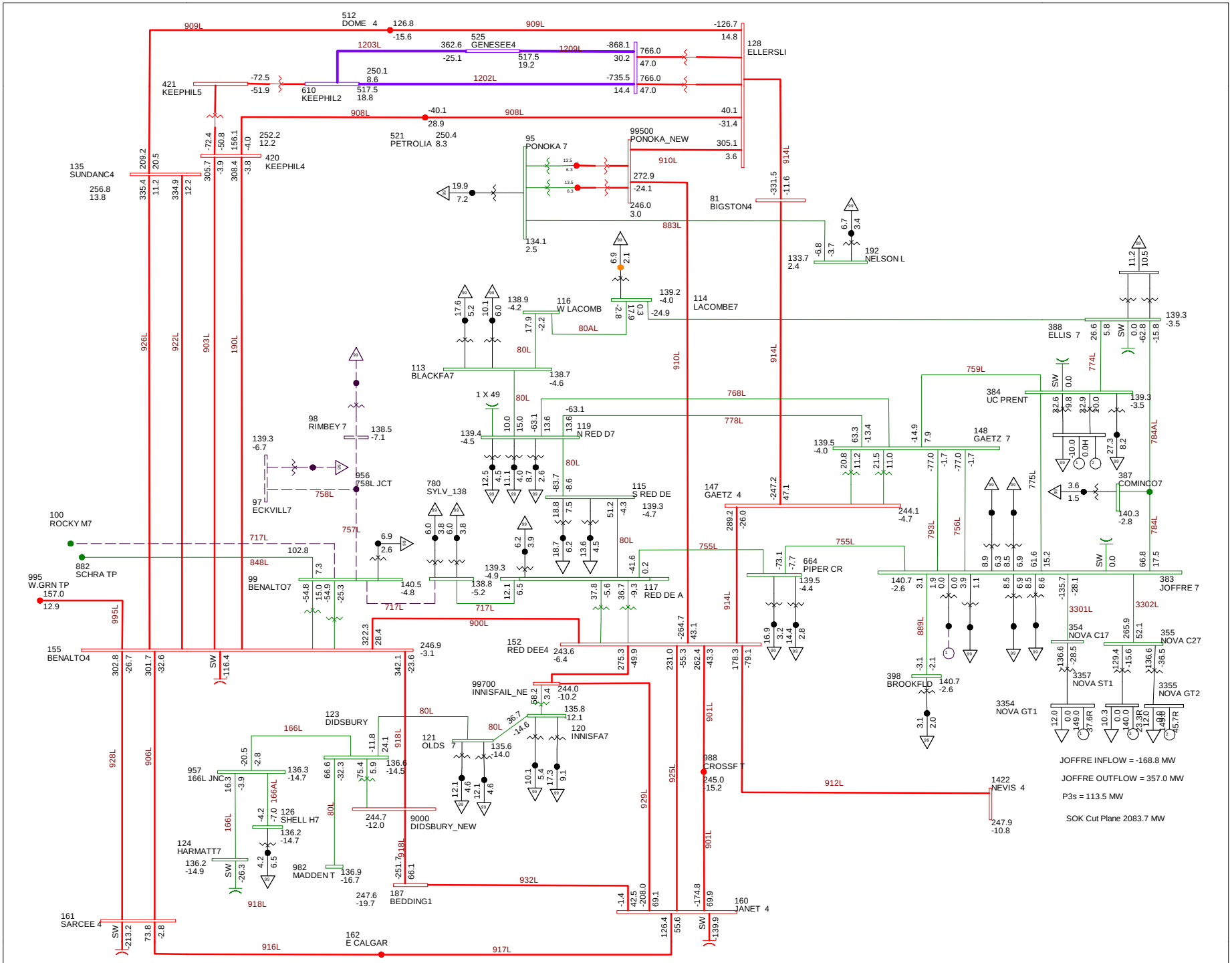
RED DEER REGION STUDY

2012 S3_SOK_PK (2012 SUMMER PEAK CASE)

FIG 2012-ALT2-LOAD-SP-C7-16(HIGH SOK): 922L(BENALTO 17S TO S 906L(BENALTO 17S TO SARCEE 42S) OUTAGE
WED, MAR 02 2011 9:00

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-593



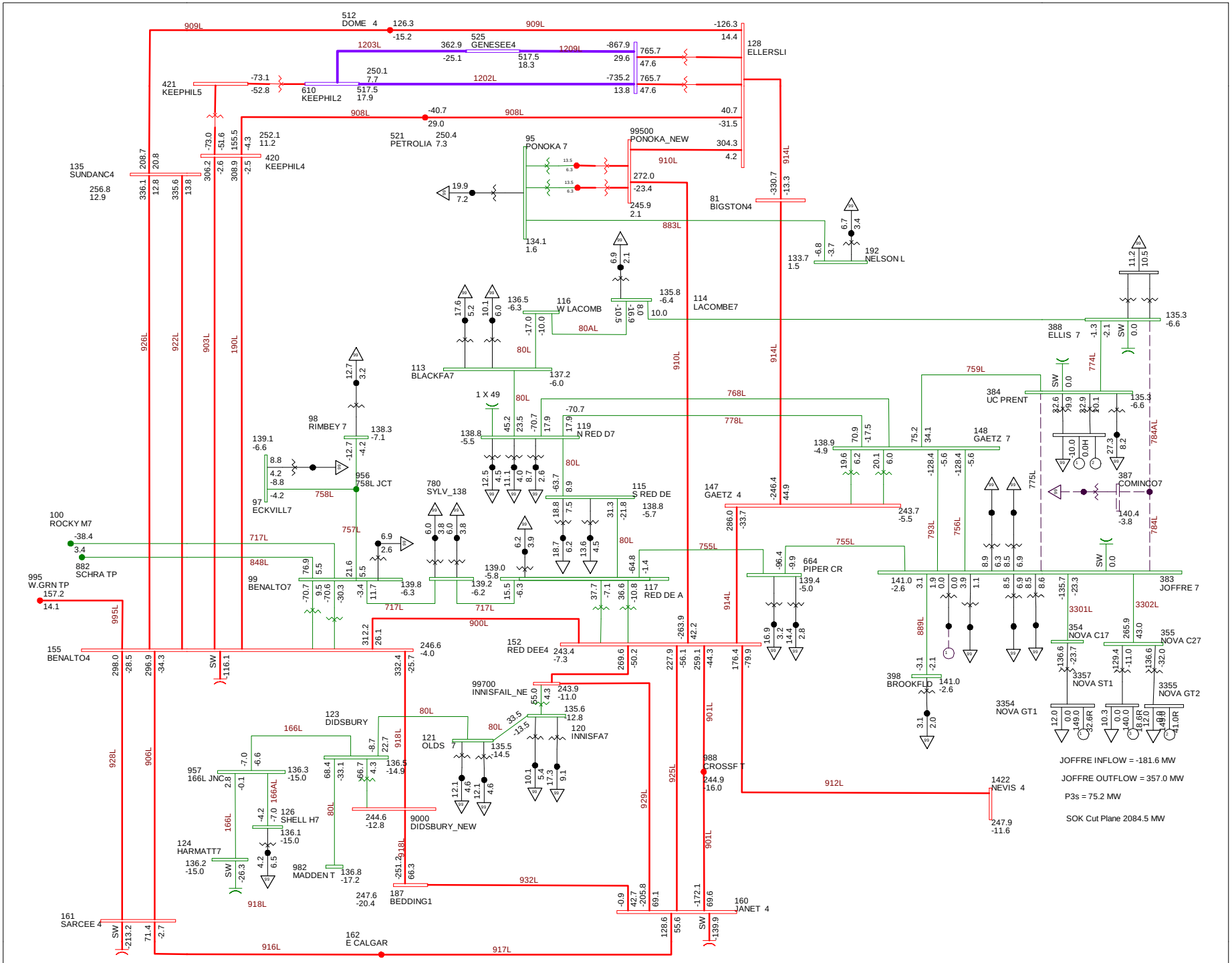
RED DEER REGION STUDY

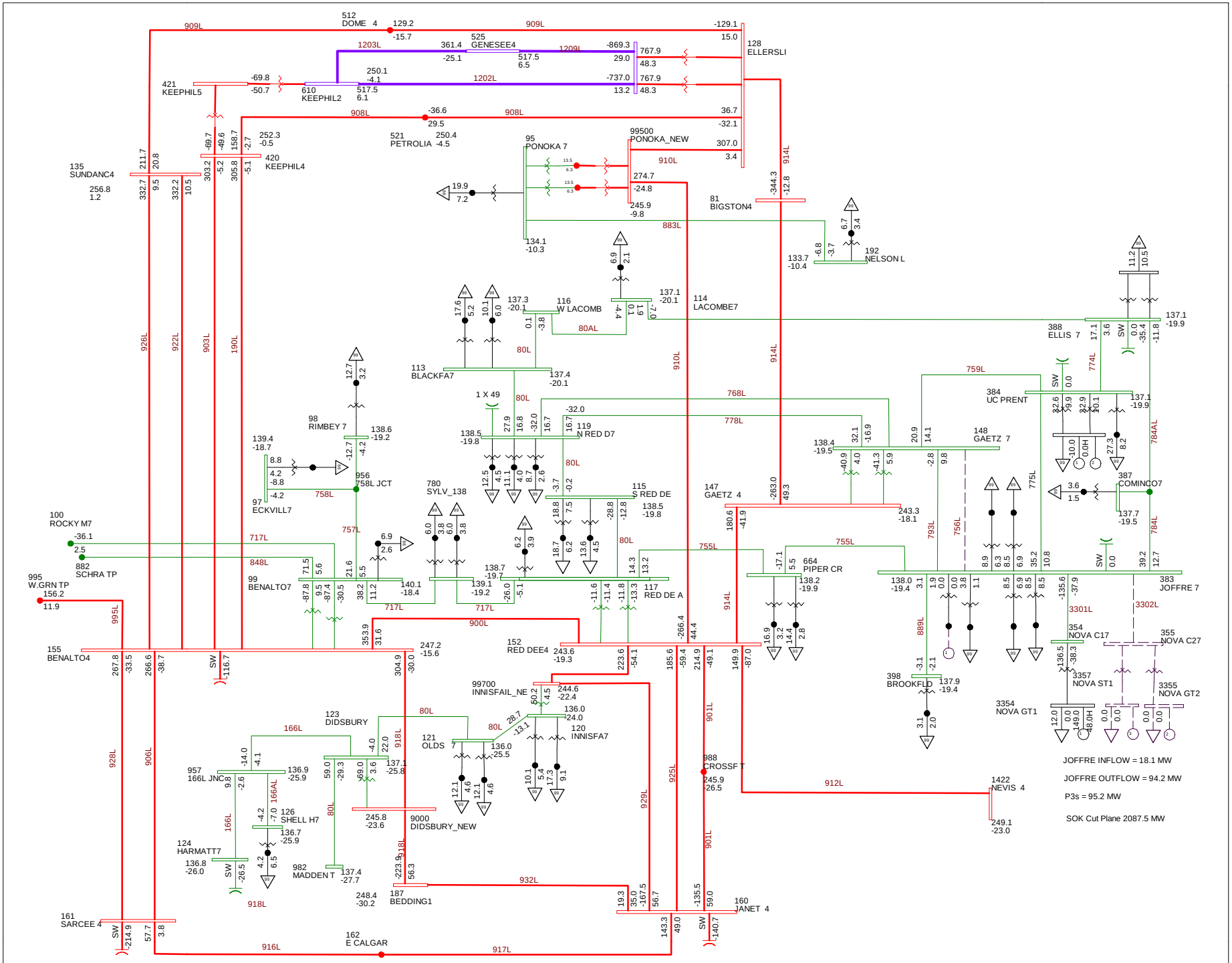
2012 S3_SOK_PK (2012 SUMMER PEAK CASE)

FIG 2012-ALT2-LOAD-SP-C7-17(HIGH SOK): 757L(BENALTO 17S THRO 717L(BENALTO 17S TO SYLVAN LAKE 580S & 717L BENALTO 17S TO R
WED, MAR 02 2011 9:00

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-594


512
DOME 4
126.3
-15.2
909L
525
GENESEE4
362.9
-25.1
517.5
18.3
1203L
1209L
-867.9
29.6
765.7
47.6
128
ELLERSLI
-126.3
14.4
909L
421
KEEPHIL5
-73.1
-52.8
610
KEEPHIL2
250.1
7.7
517.5
17.9
1202L
-735.2
13.8
765.7
47.6
908L
-40.7
29.0
908L
40.7
-31.5
521
PETROLIA
250.4
7.3
252.1
11.2
420
KEEPHIL4
135
SUNDANC4
256.8
12.9
95
PONOKA 7
99500
PONOKA_NEW
304.3
4.2
910L
272.0
-23.4
245.9
2.1
914L
-330.7
-13.3
81
BIGSTON4
19.9
7.2
883L
134.1
1.6
6.7
3.4
192
NELSON L
133.7
1.5
-6.8
-3.7
6.9
2.1
135.8
-6.4
10.0
114
LACOMBE7
116
W LACOMB
136.5
-6.3
-17.0
-10.0
80AL
17.6
5.2
10.1
6.0
113
BLACKFA7
137.2
-6.0
80L
910L
914L
759L
768L
778L
388
ELLIS 7
-1.3
-2.1
SW
0.0
135.3
-6.6
774L
784AL
384
UC PRENT
32.6
29.9
32.9
30.1
10.0
0.0H
27.3
8.2
135.3
-6.6
148
GAETZ 7
138.9
-4.9
70.9
-17.5
75.2
34.1
-128.4
-5.6
-128.4
-5.6
19.6
6.2
20.1
6.0
147
GAETZ_4
-246.4
44.9
243.7
-5.5
286.0
-33.7
1 X 49
80L
45.2
23.5
-70.7
17.9
119
N RED D7
138.8
-5.5
12.5
4.5
11.1
4.0
8.7
2.6
-63.7
8.9
115
S RED DE
138.8
-5.7
780
SYLV_138
6.0
3.8
6.0
3.8
6.2
3.9
18.8
7.5
18.7
6.2
13.6
4.5
31.3
-21.8
64.8
-1.4
139.0
-5.8
139.2
-6.2
15.5
-6.3
37.7
-7.1
36.6
-10.8
117
RED DE A
263.9
42.2
914L
755L
664
PIPER CR
-96.4
-9.9
139.4
-5.0
16.9
3.2
14.4
2.8
141.0
-2.6
3.1
1.9
0.0
0.0
3.9
1.1
8.5
6.9
8.5
8.6
-135.7
-23.3
383
JOFFRE 7
3301L
3302L
793L
756L
775L
784L
387
COMINCO7
140.4
-3.8
SW
0.0
354
NOVA C17
265.9
43.0
355
NOVA C27
136.6
-23.7
129.4
-11.0
136.6
-32.0
3357
NOVA ST1
3355
NOVA GT2
889L
398
BROOKFLD
141.0
-2.6
3.1
-3.1
2.0
-2.1
3354
NOVA GT1
12.0
0.0
149.0
32.6R
10.3
0.0
140.0
18.6R
12.0
0.0
149.0
41.0R
JOFFRE INFLOW = -181.6 MW
JOFFRE OUTFLOW = 357.0 MW
P3s = 75.2 MW
SOK Cut Plane 2084.5 MW
98
RIMBEY 7
138.3
-7.1
12.7
3.2
-12.7
-4.2
139.1
-6.6
8.8
4.2
-8.8
-4.2
956
758L JCT
758L
97
ECKVILL7
100
ROCKY M7
-38.4
3.4
882
SCHRA TP
995
W.GRN TP
157.2
14.1
848L
717L
757L
6.9
2.6
99
BENALTO7
76.9
5.5
-70.7
9.5
-70.6
-30.3
21.6
5.5
-3.4
11.7
139.8
-6.3
717L
995L
928L
906L
155
BENALTO4
298.0
-28.5
296.9
-34.3
SW
116.1
332.4
-25.7
312.2
26.1
246.6
-4.0
900L
152
RED DEE4
243.4
-7.3
269.6
-50.2
227.9
-56.1
259.1
-44.3
176.4
-79.9
914L
99700
INNISFAIL_NE
55.0
4.3
243.9
-11.0
123
DIDSBURY
166L
80L
8.7
22.7
918L
957
166L JNC
-7.0
-6.6
136.3
-15.0
2.8
-0.1
166AL
126
SHELL H7
-4.2
-7.0
136.1
-15.0
166L
124
HARMATT7
136.2
-15.0
SW
-26.3
4.2
6.5
918L
68.4
-33.1
66.7
4.3
136.5
-14.9
244.6
-12.8
9000
DIDSBURY_NEW
80L
982
MADDEN T
136.8
-17.2
247.6
-20.4
187
BEDDING1
-251.2
66.3
918L
932L
121
OLDS 7
33.5
-13.5
135.5
-14.5
12.1
4.6
12.1
4.6
10.1
5.4
17.3
9.1
120
INNISFA7
135.6
-12.8
901L
925L
929L
988
CROSSFT
244.9
-16.0
912L
1422
NEVIS 4
247.9
-11.6
-0.9
42.7
-205.8
69.1
-172.1
69.6
160
JANET 4
128.6
55.6
SW
-139.9
161
SARCEE 4
SW
213.2
71.4
-2.7
916L
162
E CALGAR
917L
D-2012-595
RED DEER REGION STUDY
2012 S3_SOK_PK (2012 SUMMER PEAK CASE)
FIG 2012-ALT2-LOAD-SP-C7-18(HIGH SOK): 784L(JOFFRE 535S TO H
775L(JOFFRE 535S TO PRENTISS 276S) OUTAGE
WED, MAR 02 2011 9:00
Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000
<=138.000
>500.000
<=34.500
<=240.000
<=500.000

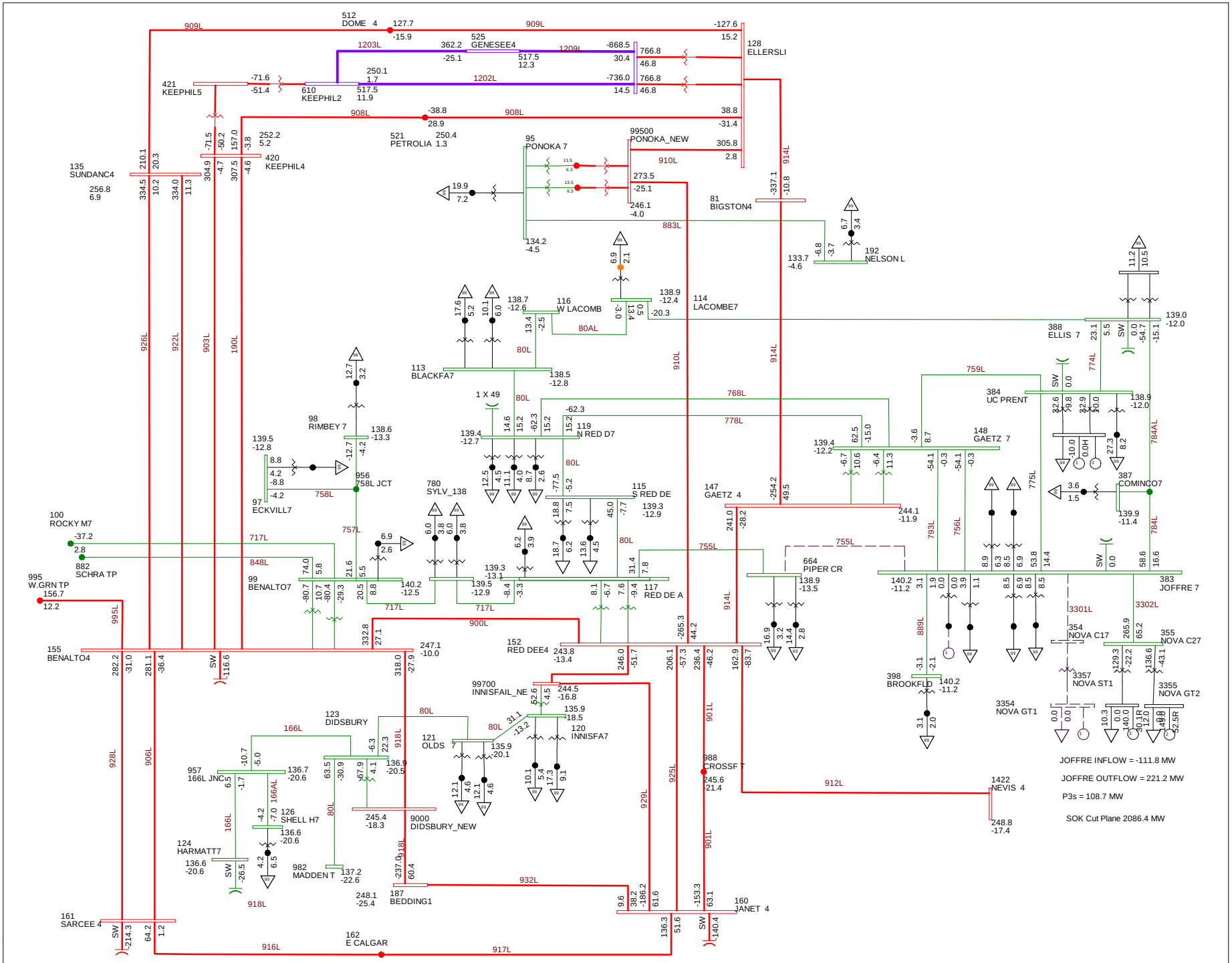


RED DEER REGION STUDY
2012 S3_SOK_PK (2012 SUMMER PEAK CASE)

FIG 2012-ALT2-LOAD-SP-C7-19(HIGH SOK): 756L(JOFFRE 535S TO G 1330L(JOFFRE 535S TO NOVA 355S) OUTAGE
WED, MAR 02 2011 9:00

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-596



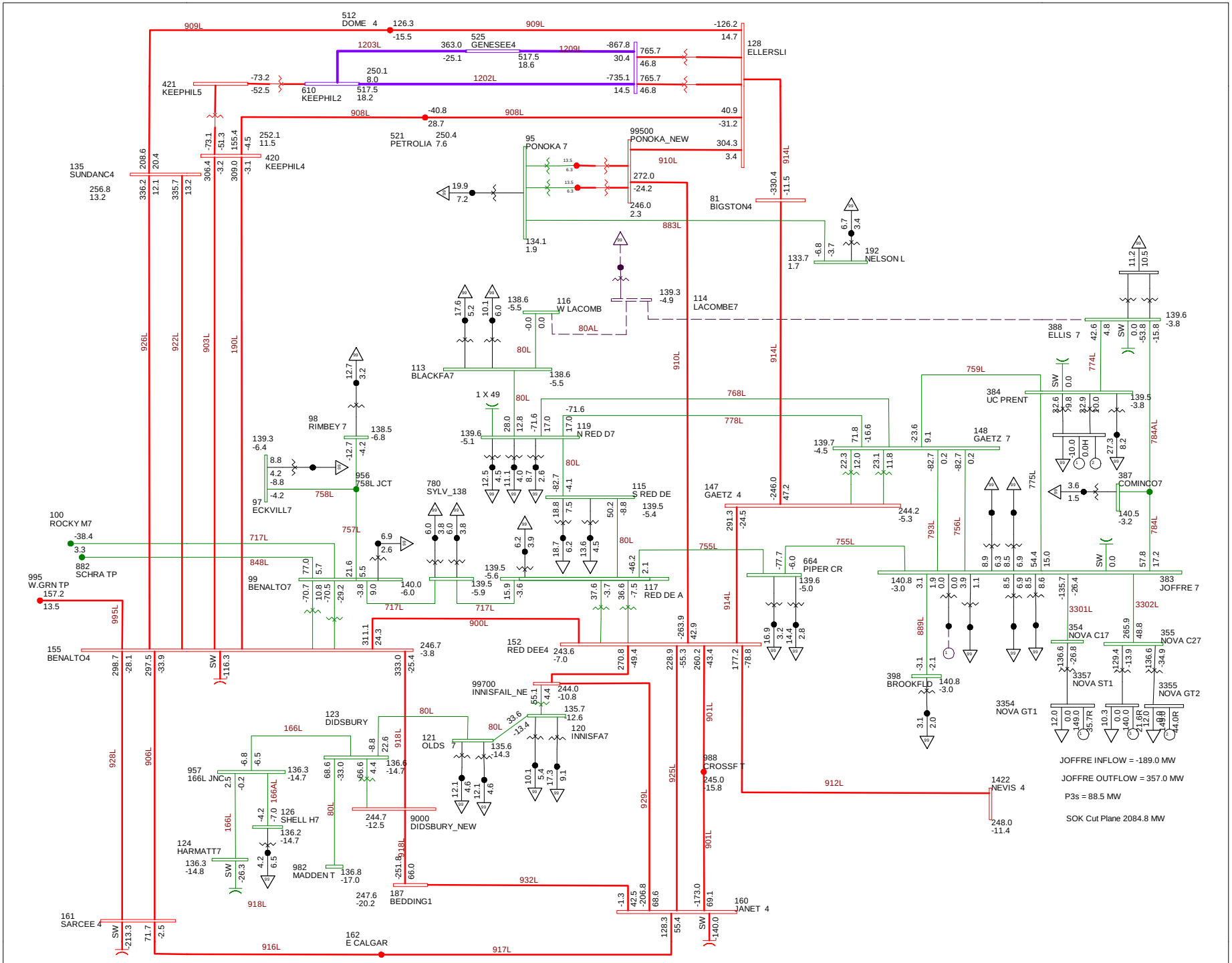
RED DEER REGION STUDY

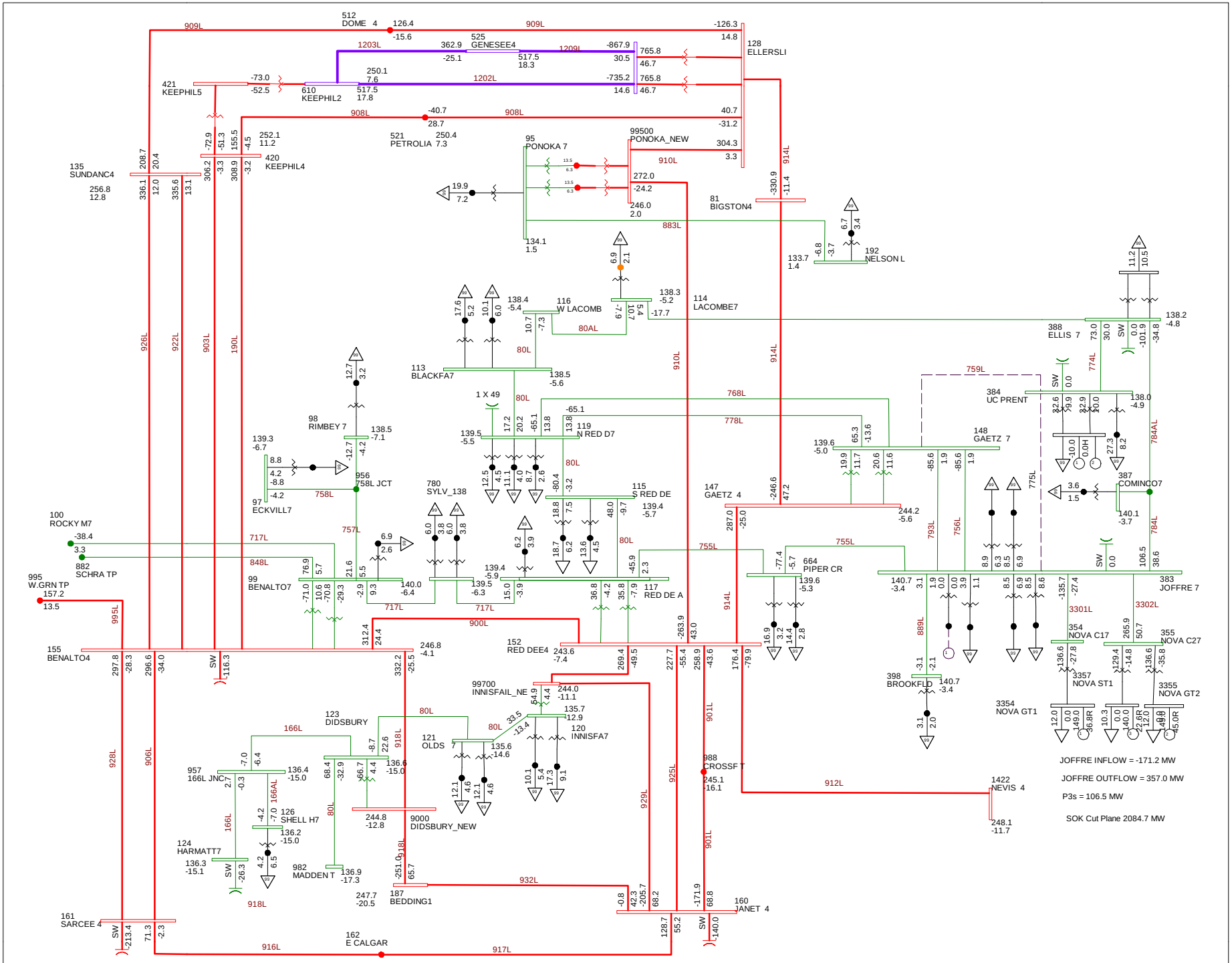
2012 S3_SOK_PK (2012 SUMMER PEAK CASE)

FIG 2012-ALT2-LOAD-SP-C7-20(HIGH SOK): 755L(JOFFRE 535S TO P 1330L(JOFFRE 535S TO NOVA 355S) OUTAGE
WED, MAR 02 2011 9:00

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-597


512
DOME 4
126.3
-15.5
909L
525
GENESEE4
363.0
-25.1
1203L
517.5
18.6
1209L
-867.8
30.4
765.7
46.8
-126.2
14.7
128
ELLERSLI
250.1
8.0
1202L
-735.1
14.5
765.7
46.8
421
KEEPHIL5
-73.2
-52.5
610
KEEPHIL2
517.5
18.2
908L
-40.8
28.7
908L
40.9
-31.2
252.1
11.5
521
PETROLIA
250.4
7.6
95
PONOKA 7
99500
PONONA_NEW
304.3
3.4
910L
272.0
-24.2
246.0
2.3
914L
-330.4
-11.5
81
BIGSTON4
883L
19.9
7.2
134.1
1.9
6.7
3.4
192
NELSON L
133.7
1.7
-6.8
-3.7
135
SUNDANC4
256.8
13.2
208.6
20.4
336.2
12.1
335.7
13.2
306.4
-3.2
309.0
-3.1
-73.1
-51.3
155.4
-4.5
420
KEEPHIL4
926L
922L
903L
190L
139.3
-4.9
114
LACOMBE7
116
W LACOMB
138.6
-5.5
80AL
80L
113
BLACKFA7
138.6
-5.5
17.6
5.2
10.1
6.0
-0.0
0.0
388
ELLIS 7
139.6
-3.8
42.6
4.8
SW
0.0
-53.8
-15.8
11.2
10.5
759L
774L
768L
778L
384
UC PRENT
139.5
-3.8
32.6
29.8
32.9
30.0
SW
0.0
10.0
0.0H
27.3
8.2
784AL
1 X 49
80L
-71.6
98
RIMBEY 7
138.5
-6.8
12.7
3.2
-12.7
-4.2
139.3
-6.4
8.8
4.2
-8.8
-4.2
956
758L JCT
97
ECKVILL7
758L
139.6
-5.1
28.0
12.8
-71.6
17.0
17.0
119
N RED D7
80L
12.5
4.5
11.1
4.0
8.7
2.6
-82.7
-4.1
115
S RED DE
139.5
-5.4
780
SYLV_138
6.0
3.8
6.0
3.8
6.2
3.9
18.7
7.5
6.2
13.6
4.5
50.2
-8.8
-46.2
2.1
80L
139.5
-5.6
139.5
-5.9
15.9
-3.6
37.6
-3.7
36.6
-7.5
117
RED DE A
6.9
2.6
757L
717L
717L
717L
100
ROCKY M7
-38.4
3.3
882
SCHRA TP
848L
995
W.GRN TP
157.2
13.5
99
BENALTO7
77.0
5.7
-70.7
10.8
-70.5
-29.2
21.6
5.5
-3.8
9.0
140.0
-6.0
995L
155
BENALTO4
298.7
-28.1
297.5
-33.9
SW
116.3
333.0
-25.4
246.7
-3.8
311.1
24.3
900L
152
RED DEE4
243.6
-7.0
270.8
-49.4
228.9
-55.3
260.2
-43.4
177.2
-78.8
263.9
42.9
914L
147
GAETZ 4
-246.0
47.2
244.2
-5.3
291.3
-24.5
139.7
-4.5
71.8
-16.6
-23.6
9.1
148
GAETZ 7
22.3
12.0
23.1
11.8
-82.7
0.2
-82.7
0.2
793L
756L
775L
755L
755L
664
PIPER CR
139.6
-5.0
-77.7
-6.0
16.9
3.2
14.4
2.8
140.8
-3.0
3.1
1.9
0.0
0.0
3.9
1.1
8.5
6.3
8.5
6.9
8.5
8.6
54.4
15.0
-135.7
-26.4
SW
0.0
57.8
17.2
784L
383
JOFFRE 7
3301L
3302L
889L
398
BROOKFLD
140.8
-3.0
3.1
-3.1
2.0
-2.1
354
NOVA C17
136.6
-26.8
265.9
48.8
355
NOVA C27
3357
NOVA ST1
129.4
-13.9
136.6
-34.9
3355
NOVA GT2
3354
NOVA GT1
12.0
0.0
149.0
-55.7R
10.3
0.0
140.0
-21.6R
12.0
0.0
149.0
-44.0R
JOFFRE INFLOW = -189.0 MW
JOFFRE OUTFLOW = 357.0 MW
P3s = 88.5 MW
SOK Cut Plane 2084.8 MW
99700
INNISFAIL_NE
244.0
-10.8
65.1
4.4
123
DIDSBURY
166L
80L
8.8
22.6
918L
-6.8
-6.5
957
166L JNC
136.3
-14.7
2.9
-0.2
166AL
68.6
-33.0
66.6
4.4
136.6
-14.7
121
OLDS 7
80L
33.6
-13.4
135.6
-14.3
135.7
-12.6
120
INNISFA7
12.1
4.6
12.1
4.6
10.1
5.4
17.3
9.1
988
CROSSFT
245.0
-15.8
912L
1422
NEVIS 4
248.0
-11.4
928L
906L
166L
-4.2
-7.0
126
SHELL H7
136.2
-14.7
124
HARMATT7
136.3
-14.8
SW
-26.3
4.2
6.5
80L
244.7
-12.5
9000
DIDSBURY_NEW
929L
925L
901L
901L
982
MADDEN T
136.8
-17.0
-251.8
66.0
918L
247.6
-20.2
187
BEDDING1
932L
-1.3
42.5
-206.8
68.6
-173.0
69.1
160
JANET 4
128.3
55.4
SW
-140.0
161
SARCEE 4
SW
-213.3
71.7
-2.5
916L
162
E CALGAR
917L
D-2012-598
RED DEER REGION STUDY
2012 S3_SOK_PK (2012 SUMMER PEAK CASE)
FIG 2012-ALT2-LOAD-SP-C7-21(HIGH SOK): 80AL(N.E.LACOMBE 212S
NEW LINE(N.E.LACOMBE 212S TO ELLIS 332S) OUTAGE
WED, MAR 02 2011 9:00
Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000
<=138.000
>500.000
<=34.500
<=240.000
<=500.000

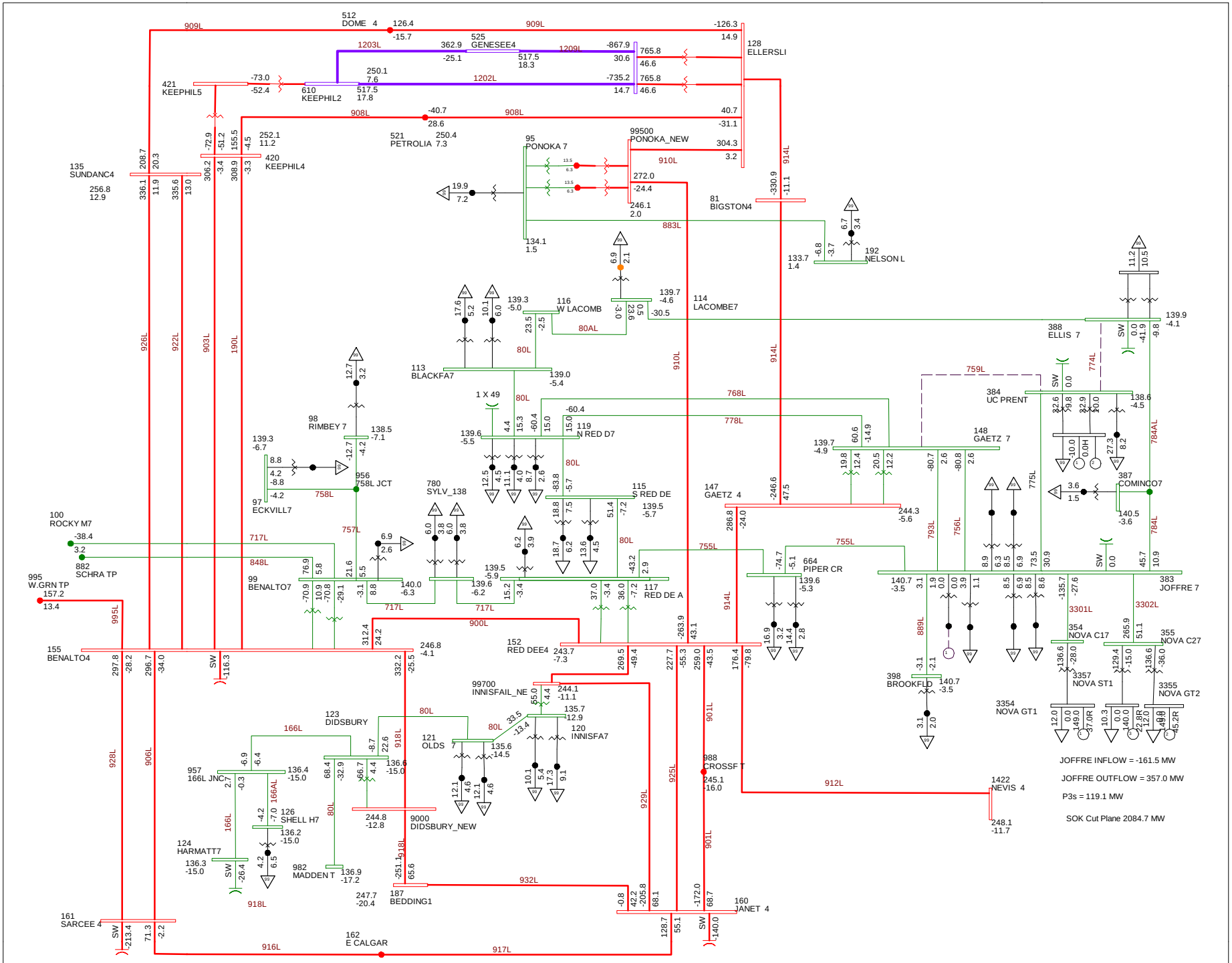


RED DEER REGION STUDY
2012 S3_SOK_PK (2012 SUMMER PEAK CASE)

FIG 2012-ALT2-LOAD-SP-C7-22(HIGH SOK): 775L(PRENTISS 276S TO 759L(PRENTISS 276S TO GAETZ 87S) OUTAGE
WED, MAR 02 2011 9:00

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-599

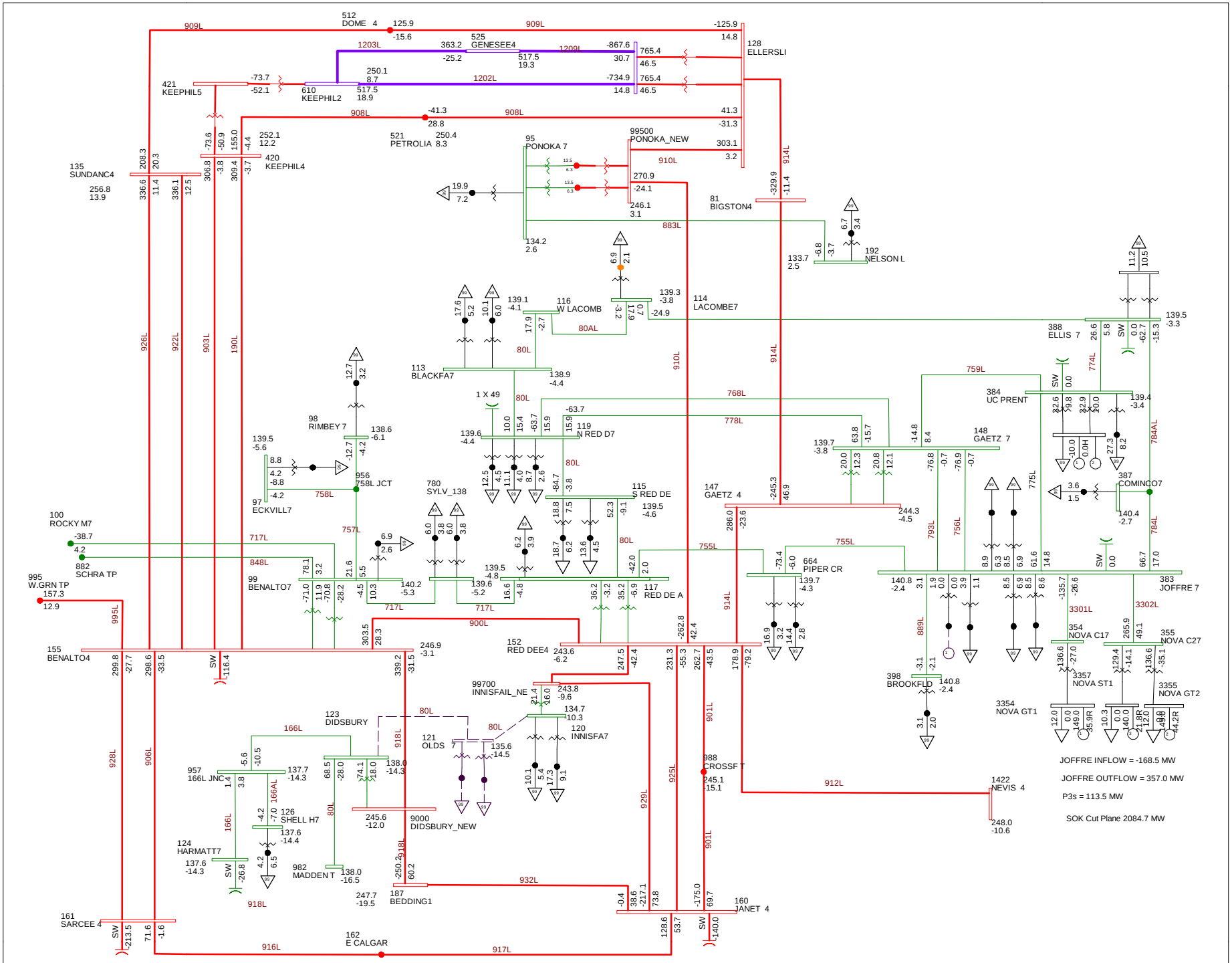


RED DEER REGION STUDY
2012 S3_SOK_PK (2012 SUMMER PEAK CASE)

FIG 2012-ALT2-LOAD-SP-C7-23(HIGH SOK): 774L(PRENTISS 276S TO 759L(PRENTISS 276S TO GAETZ 87S) OUTAGE
WED, MAR 02 2011 9:00

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-600

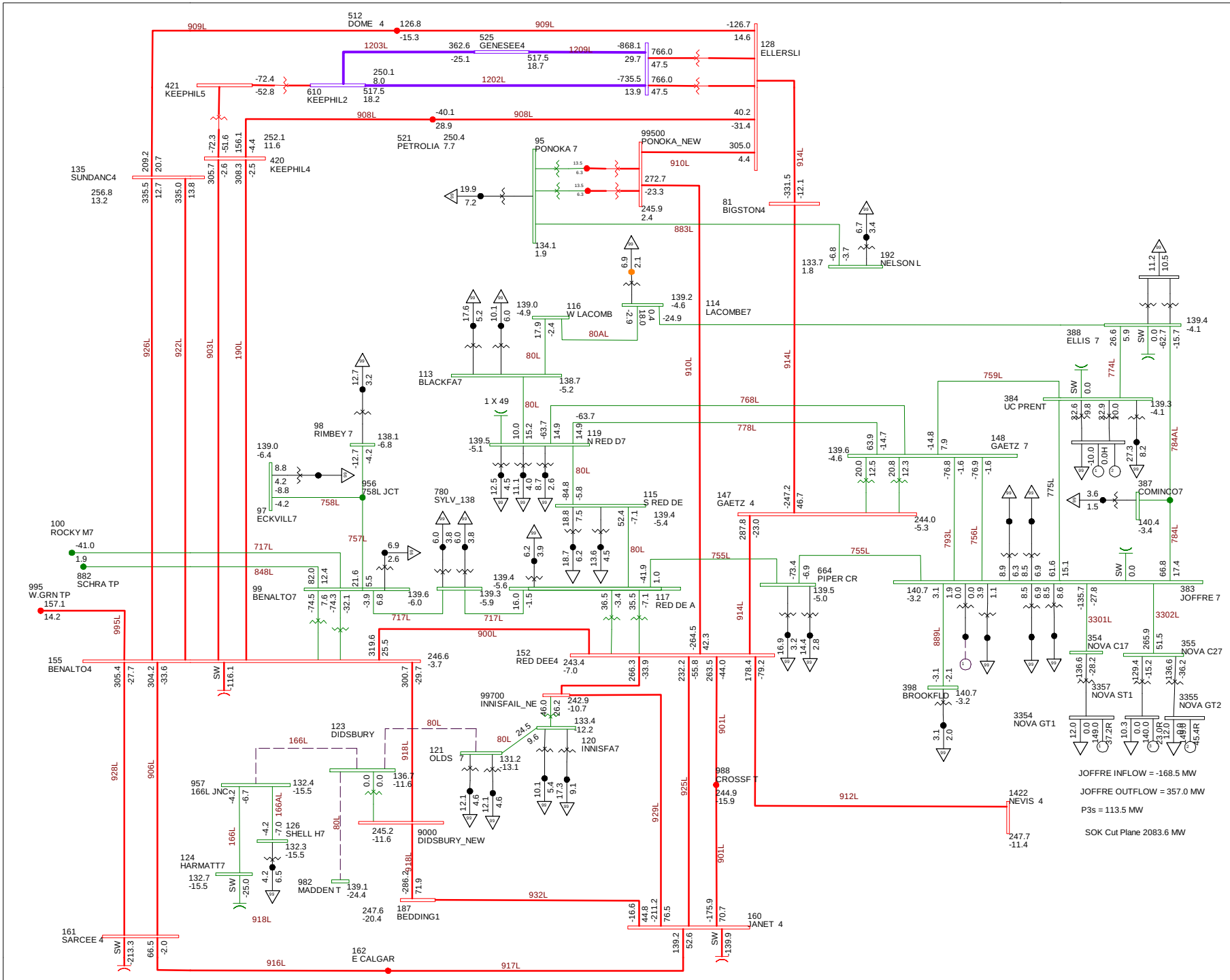


RED DEER REGION STUDY
2012 S3_SOK_PK (2012 SUMMER PEAK CASE)

FIG 2012-ALT2-LOAD-SP-C7-24(HIGH SOK): 80L(OLDS 55S VIA INNI 80L(OLDS 55S TO DIDSBURY 152S) OUTAGE
WED, MAR 02 2011 9:00

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-601



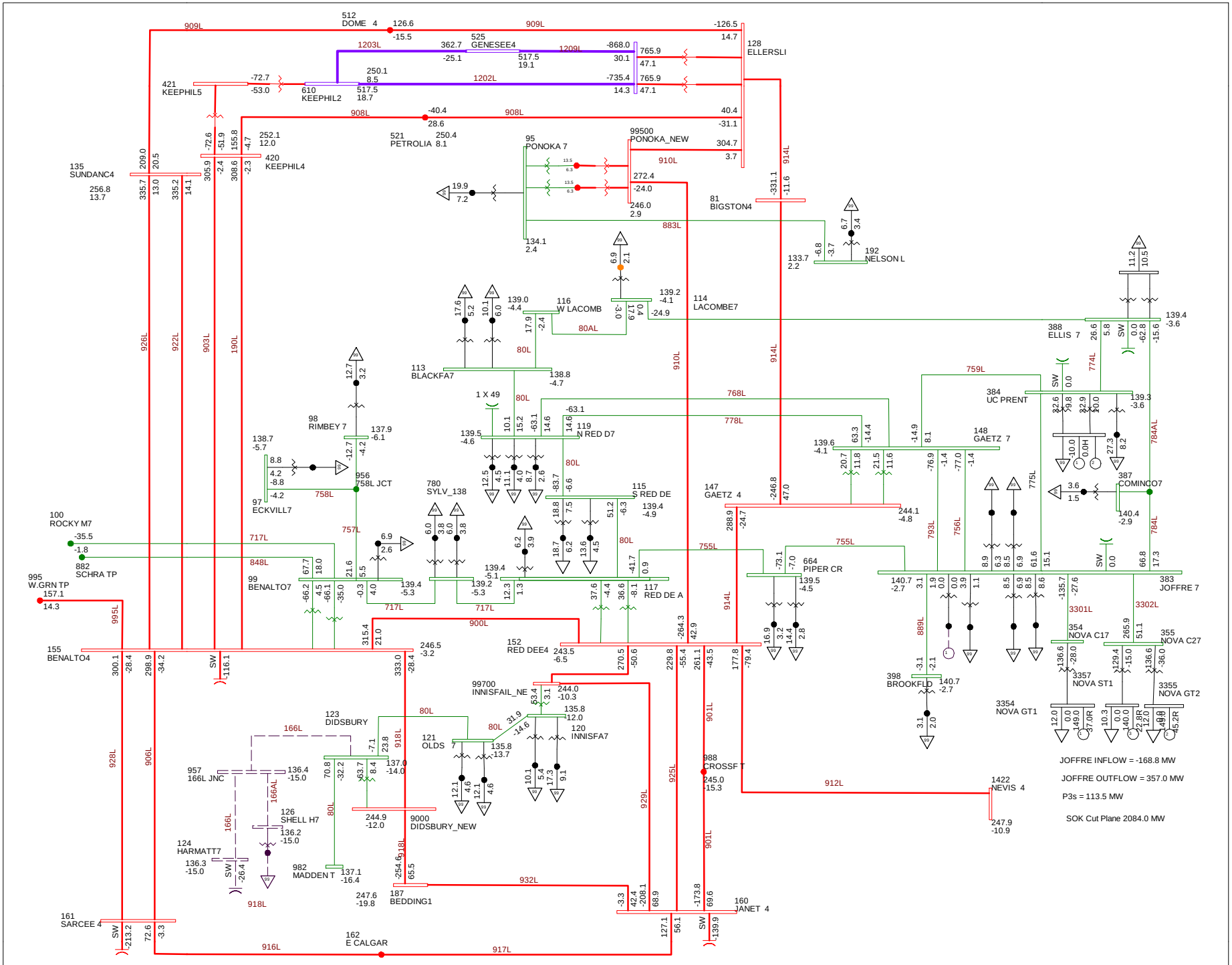
RED DEER REGION STUDY

2012 S3_SOK_PK (2012 SUMMER PEAK CASE)

FIG 2012-ALT2-LOAD-SP-C7-25(HIGH SOK): 80L(OLDS 55S TO DIDSB
80L(DIDSBURY 152S TO TO MADDEN 373S) & 166L(DIDSBURY 152S T
WED, MAR 02 2011 9:00

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-602

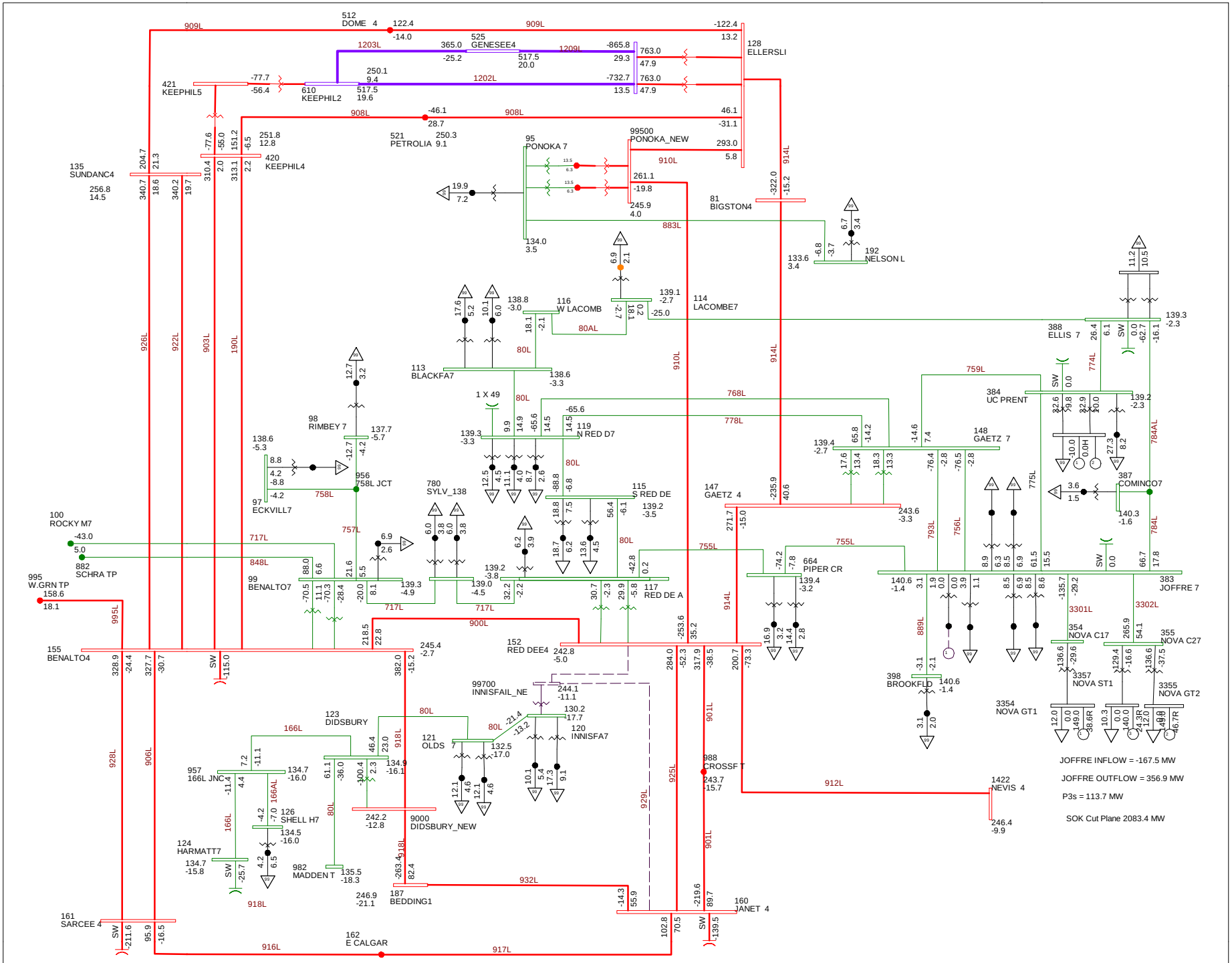


RED DEER REGION STUDY
2012 S3_SOK_PK (2012 SUMMER PEAK CASE)

FIG 2012-ALT2-LOAD-SP-C7-26(HIGH SOK): 166L(HARMATTAN 256S T 166L(HARMATTAN 256S TO SHELL EAGLE CR. 412S TO SUNDRE 575S)
WED, MAR 02 2011 9:00

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-603



RED DEER REGION STUDY
2012 S3_SOK_PK (2012 SUMMER PEAK CASE)

FIG 2012-ALT2-LOAD-SP-C7-27(HIGH SOK): 929L(RED DEER 63S TO 929L(INNISFAIL 214S TO JANET 74S) OUTAGE
WED, MAR 02 2011 9:00

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-604

Table D-2012-16: Summary of 2012 Load Adequacy Power Flow Analysis - Alternative 2 Category D8

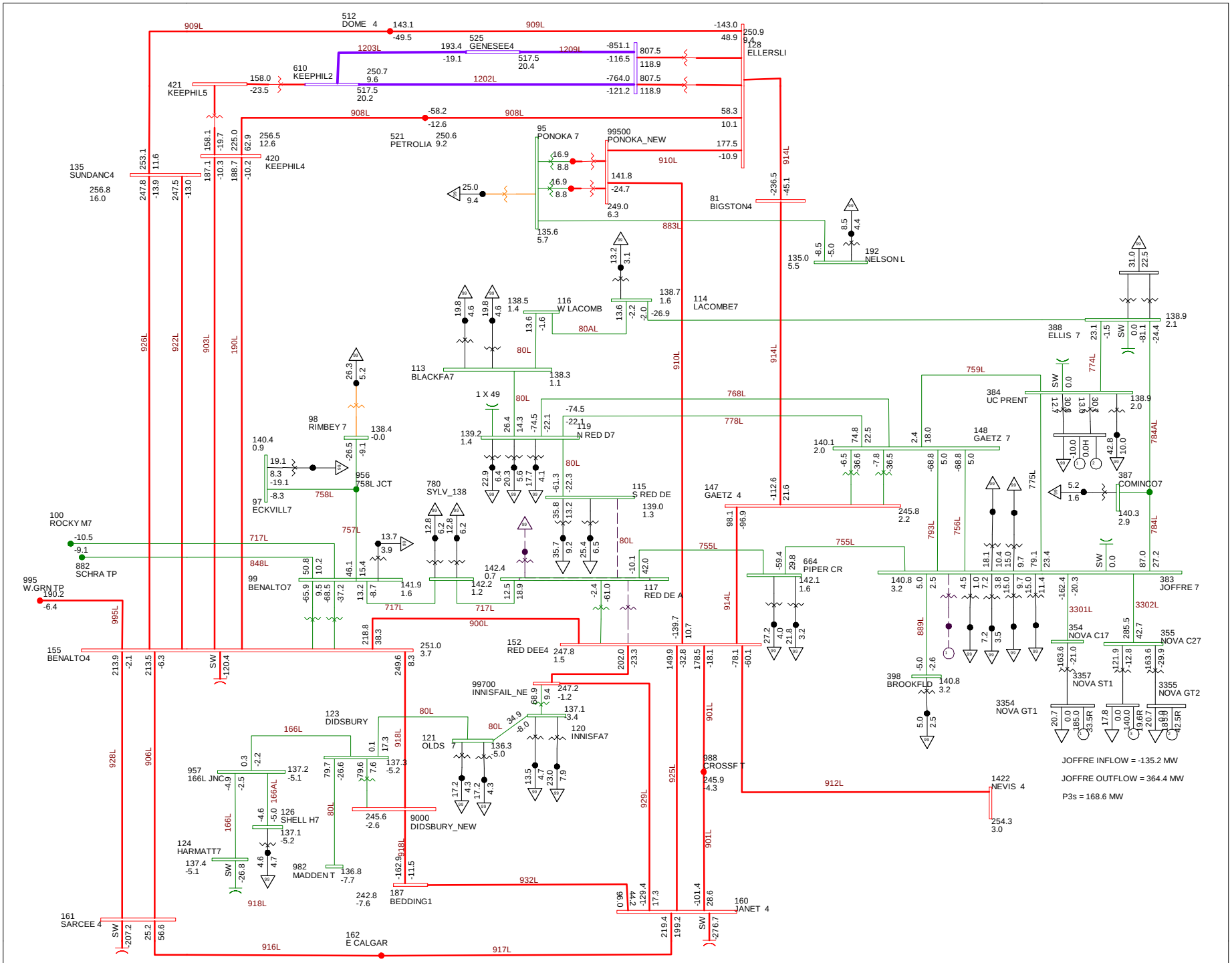
Figure No.	Contingency	Overloaded Element	Percent Overload	Other System Performance Concerns	SPS
Winter Peak					
Fig 2012-Alt2-Load-WP-D8-1	138 kV lines and transformer at substation Red Deer 63S-A	None	N/A	None	None
Fig 2012-Alt2-Load-WP-D8-2	138 kV lines and transformer at substation Red Deer 63S-B	None	N/A	None	None
Fig 2012-Alt2-Load-WP-D8-3	240 kV lines and transformer at substation Red Deer 63S	None	N/A	None	None
Fig 2012-Alt2-Load-WP-D8-4	138 kV lines and transformer at substation Gaetz 87S	None	N/A	None	None
Fig 2012-Alt2-Load-WP-D8-5	240 kV lines and transformer at substation Gaetz 87S	None	N/A	None	None
Fig 2012-Alt2-Load-WP-D8-6	138 kV lines and transformer at substation Benalto 17S	None	N/A	None	None
Fig 2012-Alt2-Load-WP-D8-7/ Fig 2012-Alt2-Load-WP-D8-7-1	240 kV lines and transformer at substation Benalto 17S	914L Bigstone 86S to Gaetz 87S	109%	Voltage violation at Rimbey, Eckville, Didsbury and Ponoka areas	500MW Generation curtailment at Sundance
		910L Ellerslie 89S to Bigstone 86S	124%		
		910L Ellerslie 89S via Ponoka 3322 to Red Deer 63S	114%		
Fig 2012-Alt2-Load-WP-D8-8	138 kV lines and transformer at substation Didsbury (152S)	None	N/A	None	None
Fig 2012-Alt2-Load-WP-D8-9	240 kV lines and transformer at substation Didsbury (152S)	None	N/A	None	None
Fig 2012-Alt2-Load-WP-D8-10	240 kV lines and transformer at Substation Ponoka 331S	None	N/A	No resource for Ponoka and Nelson Lake areas	None
Fig 2012-Alt2-Load-WP-D8-11	138 kV lines and transformer at Substation Ponoka 331S	None	N/A	None	None
Fig 2012-Alt2-Load-WP-D8-12	138 kV Substation W. Lacombe 958S	None	N/A	None	None
Fig 2012-Alt2-Load-WP-D8-13	138 kV Substation N.E. Lacombe 212S	None	N/A	None	None
Fig 2012-Alt2-Load-WP-D8-14	138 kV Substation Blackfalds 198S	None	N/A	None	None
Fig 2012-Alt2-Load-WP-D8-15	138 kV Substation N. Red Deer 217S	None	N/A	None	None

Figure No.	Contingency	Overloaded Element	Percent Overload	Other System Performance Concerns	SPS
Fig 2012-Alt2-Load-WP-D8-16	138 kV Substation S. Red Deer 194S	None	N/A	None	None
Fig 2012-Alt2-Load-WP-D8-17	138 kV Substation Ellis 332S	None	N/A	None	None
Fig 2012-Alt2-Load-WP-D8-18	138 kV Substation U.C. Prentiss 276S	None	N/A	None	None
Fig 2012-Alt2-Load-WP-D8-19	138 kV Substation Sylvan Lake 580S	None	N/A	None	None
Fig 2012-Alt2-Load-WP-D8-20	138 kV Substation Piper Creek 274S	None	N/A	None	None
Fig 2012-Alt2-Load-WP-D8-21	138 kV Substation Joffre 535S	None	N/A	None	None
Fig 2012-Alt2-Load-WP-D8-22	138 kV Substation Harmattan 256S	None	N/A	None	None
Fig 2012-Alt2-Load-WP-D8-23	138 kV Substation Olds 55S	None	N/A	None	None
Fig 2012-Alt2-Load-WP-D8-24	240 kV lines and transformer at Substation Innisfail 214S	None	N/A	None	None
Fig 2012-Alt2-Load-WP-D8-25	138 kV lines and transformer at Substation Innisfail 214S	None	N/A	None	None
Fig 2012-Alt2-Load-WP-D8-26	240 kV lines and transformer at substation Sarcee 42S	None	N/A	None	None
Fig 2012-Alt2-Load-WP-D8-27	240 kV lines and transformer at substation Nevis 766S	None	N/A	None	None
Fig 2012-Alt2-Load-WP-D8-28 /Fig 2012-Alt2-Load-WP-D8-28-1	240 kV lines and transformer at substation Janet 74S	80L Didsbury 152S to Madden TAP	123%	Voltage violation at Didsbury area and Area 6 plus some elements overloaded in Area 6	420MW Generation curtailment at Sundance; Curtail load of Didsbury by 20% and area 6 by 15%
Fig 2012-Alt2-Load-WP-D8-29	240 kV lines and transformer at substation Beddington 162S	None	N/A	None	None
Fig 2012-Alt2-Load-WP-D8-30	240 kV lines and transformer at substation Crossfield 64S	None	N/A	None	None

Figure No.	Contingency	Overloaded Element	Percent Overload	Other System Performance Concerns	SPS
Fig 2012-Alt2-Load-WP-D8-31 /Fig 2012-Alt2-Load-WP-D8-31-1	240 kV lines and transformer at substation Ellerslie 89S	None	N/A	Transformer 500/240 kV at Keephills 868S heavily overloaded and Some elements overloaded in Area 40	900MW Generation curtailment at Genesee; Curtail load of Red Deer area by 20% and area 60 by 15%
Fig 2012-Alt2-Load-WP-D8-32 / Fig 2012-Alt2-Load-WP-D8-32-1	500 kV lines and transformer at substation Ellerslie 89S	None	N/A	Transformer 500/240 kV at Keephills 868S heavily overloaded and Some elements overloaded in Area 40	900MW Generation curtailment at Genesee; Curtail load of Red Deer area by 20% and area 60 by 15%
Fig 2012-Alt2-Load-WP-D8-33	240 kV lines and transformer at substation Bigstone 86S	None	N/A	None	None
Fig 2012-Alt2-Load-WP-D8-34	240 kV lines and transformer at substation Keephills 568S	None	N/A	None	None
Fig 2012-Alt2-Load-WP-D8-35	240 kV lines and transformer at substation Sundance 821S	N/A	N/A	Diverge	Curtail load of areas 40 & 60 by 50%
Summer Light					
Fig 2012-Alt2-Load-SL-D8-1	138 kV lines and transformer at substation Red Deer 63S-A	None	N/A	None	None
Fig 2012-Alt2-Load-SL-D8-2	138 kV lines and transformer at substation Red Deer 63S-B	None	N/A	None	None
Fig 2012-Alt2-Load-SL-D8-3	240 kV lines and transformer at substation Red Deer 63S	None	N/A	None	None
Fig 2012-Alt2-Load-SL-D8-4	138 kV lines and transformer at substation Gaetz 87S	None	N/A	None	None
Fig 2012-Alt2-Load-SL-D8-5	240 kV lines and transformer at substation Gaetz 87S	None	N/A	None	None
Fig 2012-Alt2-Load-SL-D8-6 /Fig 2012-Alt2-Load-SL-D8-6-1	138 kV lines and transformer at substation Benalto 17S	166L Didsbury 152S to Harmattan 256S	107%	None	Curtail load of Caroline area by 8%
Fig 2012-Alt2-Load-SL-D8-7	240 kV lines and transformer at substation Benalto 17S	None	N/A	None	None
Fig 2012-Alt2-Load-SL-D8-8	138 kV lines and transformer at substation Didsbury (152S)	None	N/A	None	None
Fig 2012-Alt2-Load-SL-D8-9	240 kV lines and transformer at substation Didsbury (152S)	None	N/A	None	None
Fig 2012-Alt2-Load-SL-D8-10	240 kV lines and transformer at Substation Ponoka 331S	None	N/A	No resource for Ponoka and Nelson Lake areas	None

Figure No.	Contingency	Overloaded Element	Percent Overload	Other System Performance Concerns	SPS
Fig 2012-Alt2-Load-SL-D8-11	138 kV lines and transformer at Substation Ponoka 331S	None	N/A	None	None
Fig 2012-Alt2-Load-SL-D8-12	138 kV Substation W. Lacombe 958S	None	N/A	None	None
Fig 2012-Alt2-Load-SL-D8-13	138 kV Substation N.E. Lacombe 212S	None	N/A	None	None
Fig 2012-Alt2-Load-SL-D8-14	138 kV Substation Blackfalds 198S	None	N/A	None	None
Fig 2012-Alt2-Load-SL-D8-15	138 kV Substation N. Red Deer 217S	None	N/A	None	None
Fig 2012-Alt2-Load-SL-D8-16	138 kV Substation S. Red Deer 194S	None	N/A	None	None
Fig 2012-Alt2-Load-SL-D8-17	138 kV Substation Ellis 332S	None	N/A	None	None
Fig 2012-Alt2-Load-SL-D8-18	138 kV Substation U.C. Prentiss 276S	None	N/A	None	None
Fig 2012-Alt2-Load-SL-D8-19	138 kV Substation Sylvan Lake 580S	None	N/A	None	None
Fig 2012-Alt2-Load-SL-D8-20	138 kV Substation Piper Creek 274S	None	N/A	None	None
Fig 2012-Alt2-Load-SL-D8-21	138 kV Substation Joffre 535S	None	N/A	None	None
Fig 2012-Alt2-Load-SL-D8-22	138 kV Substation Harmattan 256S	None	N/A	None	None
Fig 2012-Alt2-Load-SL-D8-23	138 kV Substation Olds 55S	None	N/A	None	None
Fig 2012-Alt2-Load-SL-D8-24	240 kV lines and transformer at Substation Innisfail 214S	None	N/A	None	None
Fig 2012-Alt2-Load-SL-D8-25	138 kV lines and transformer at Substation Innisfail 214S	None	N/A	None	None
Fig 2012-Alt2-Load-SL-D8-26	240 kV lines and transformer at substation Sarcee 42S	None	N/A	None	None
Fig 2012-Alt2-Load-SL-D8-27	240 kV lines and transformer at substation Nevis 766S	None	N/A	None	None
Fig 2012-Alt2-Load-SL-D8-28	240 kV lines and transformer at substation Janet 74S	None	N/A	None	None
Fig 2012-Alt2-Load-SL-D8-29	240 kV lines and transformer at substation Beddington 162S	None	N/A	None	None
Fig 2012-Alt2-Load-SL-D8-30	240 kV lines and transformer at substation Crossfield 64S	None	N/A	None	None
Fig 2012-Alt2-Load-SL-D8-31 /Fig 2012-Alt2-Load-SL-D8-31-1	240 kV lines and transformer at substation Ellerslie 89S	None	N/A	Transformer 500/240 kV at Keephills 868S heavily overloaded and Some elements overloaded in Area 40	700MW Generation curtailment at Genesee

Figure No.	Contingency	Overloaded Element	Percent Overload	Other System Performance Concerns	SPS
Fig 2012-Alt2-Load-SL-D8-32	500 kV lines and transformer at substation Ellerslie 89S	None	N/A	Transformer 500/240 kV at Keephills 868S heavily overloaded and Some elements overloaded in Area 40	700MW Generation curtailment at Genesee
Fig 2012-Alt2-Load-SL-D8-33	240 kV lines and transformer at substation Bigstone 86S	None	N/A	None	None
Fig 2012-Alt2-Load-SL-D8-34	240 kV lines and transformer at substation Keephills 568S	None	N/A	None	None
Fig 2012-Alt2-Load-SL-D8-35	240 kV lines and transformer at substation Sundance 821S	N/A	N/A	Diverge	Curtail load of areas 40 & 60 by 50%



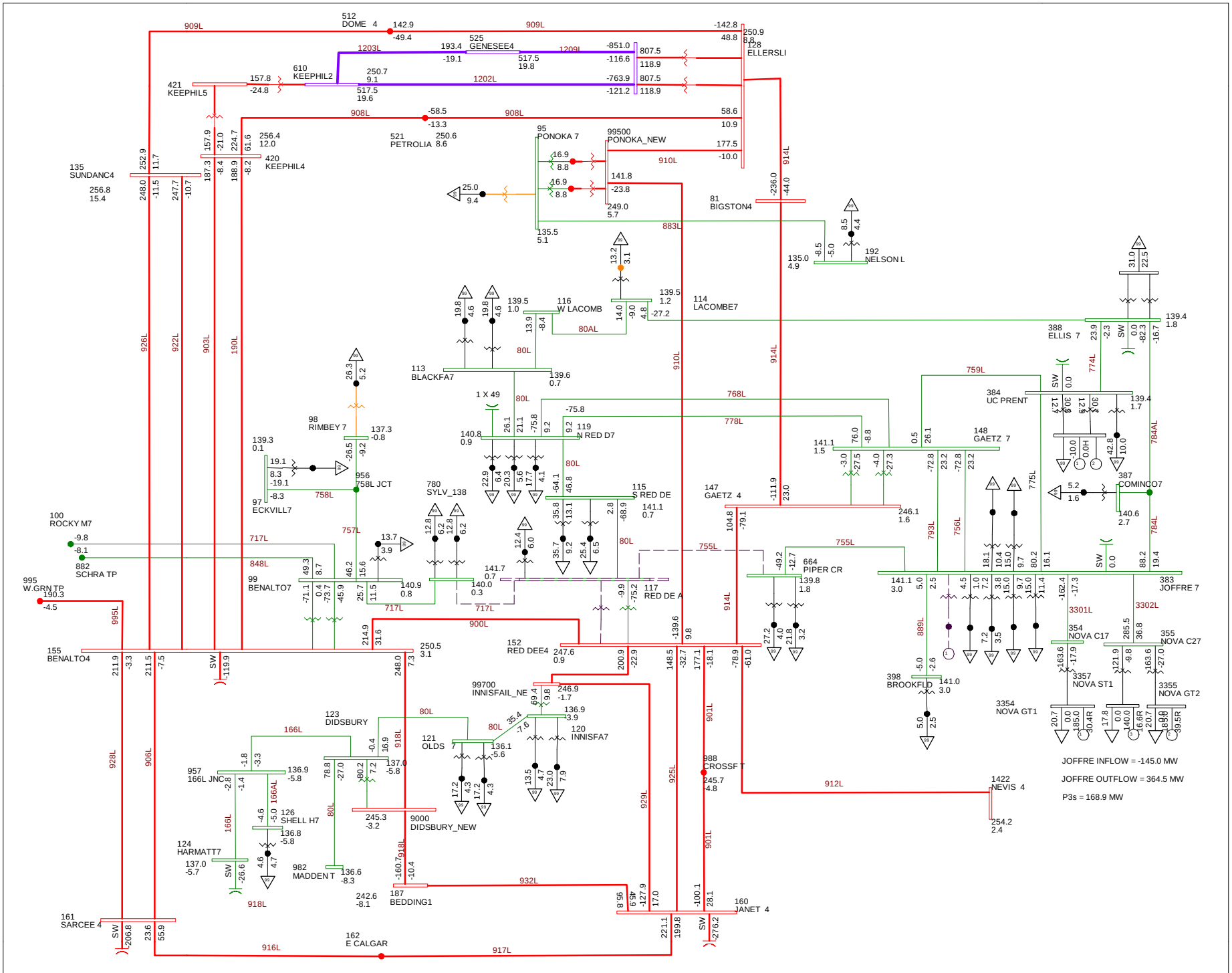
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2012 WINTER PEAK BASE CASE REVISION 6.5

FIG 2012-ALT2-LOAD-WP-D8-1: 138 KV LINES AND TRANSFORMER AT SUBSTATION RED DEER 63S-A OUTAGE
WED, MAR 02 2011 10:33

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-610



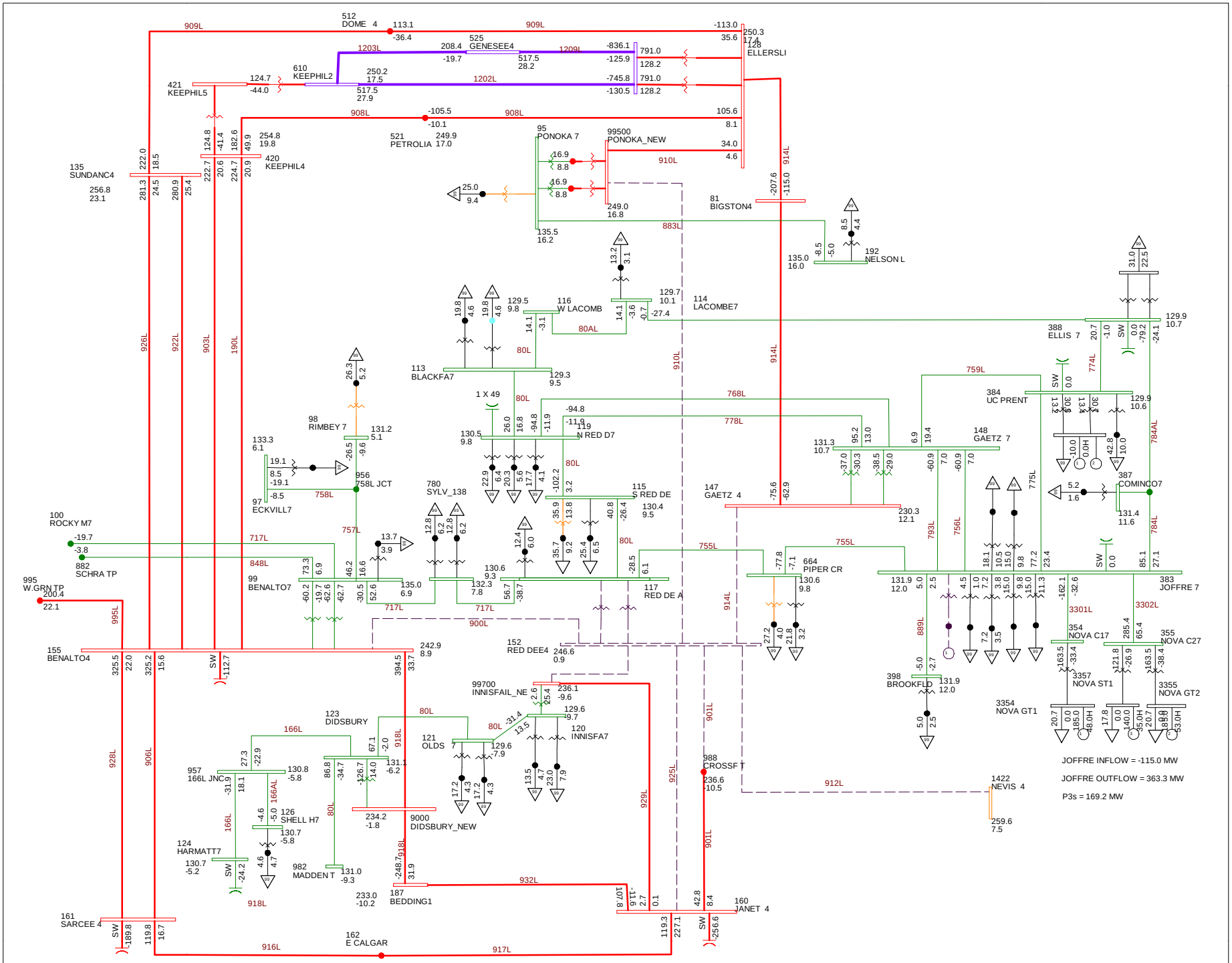
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2012 WINTER PEAK BASE CASE REVISION 6.5

FIG 2012-ALT2-LOAD-WP-D8-2: 138 KV LINES AND TRANSFORMER AT SUBSTATION RED DEER 63S-B OUTAGE
WED, MAR 02 2011 10:33

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-611



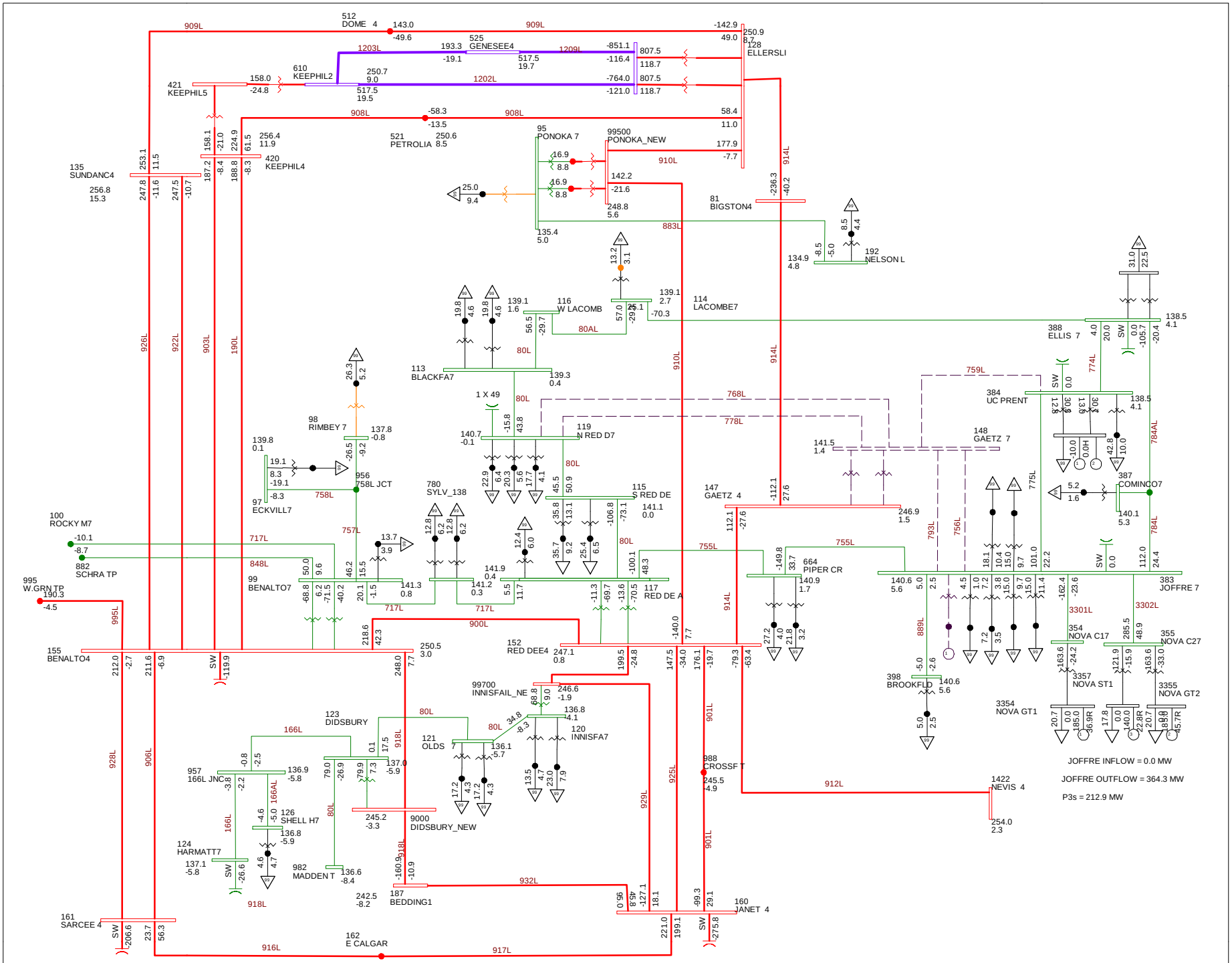
RED DEER REGION STUDY

2012 WINTER PEAK BASE CASE REVISION 6.5

FIG 2012-ALT2-LOAD-WP-D8-3: 240 KV LINES AND TRANSFORMER AT SUBSTATION RED DEER 63S OUTAGE
WED, MAR 02 2011 10:33

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-612



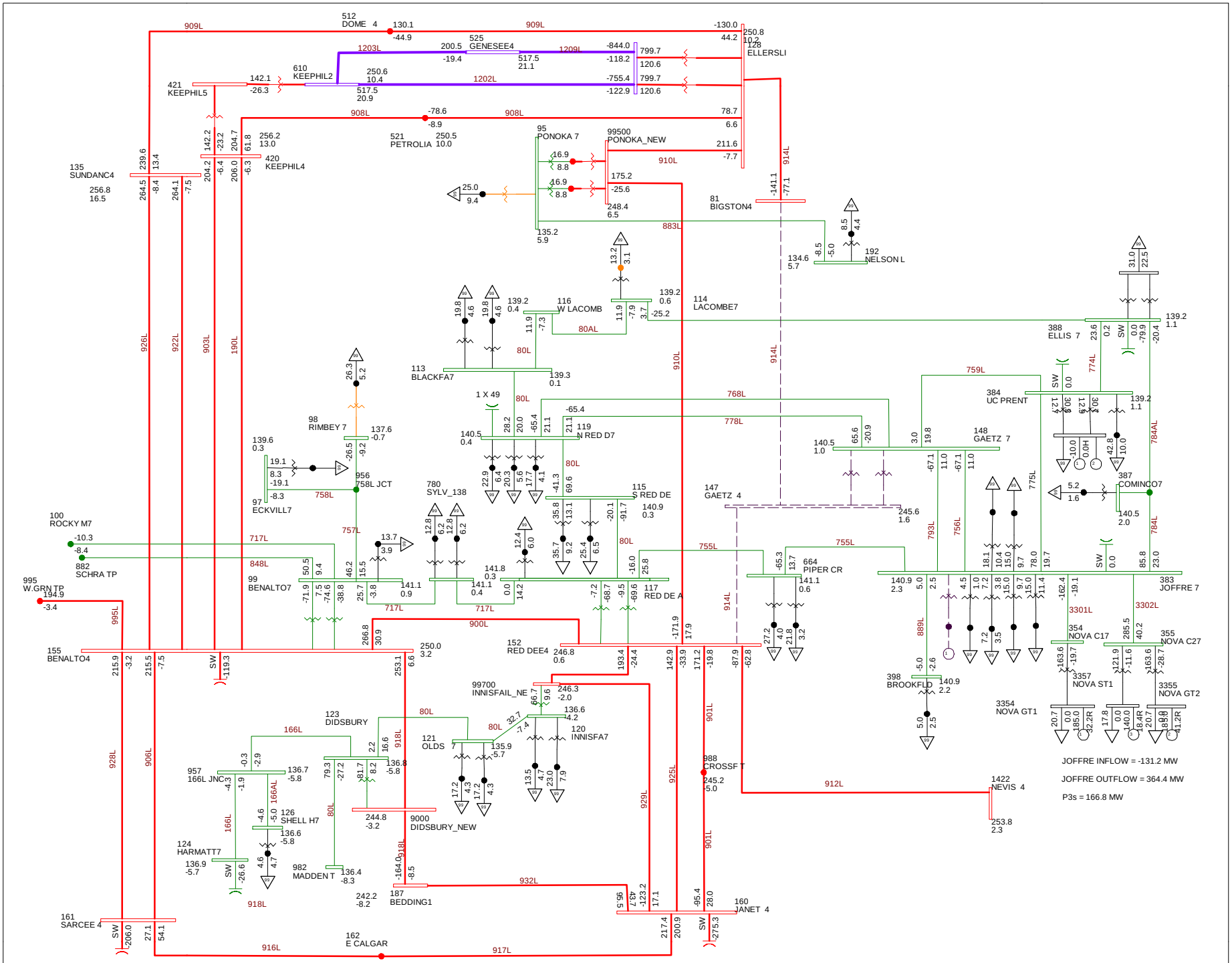
RED DEER REGION STUDY

2012 WINTER PEAK BASE CASE REVISION 6.5

FIG 2012-ALT2-LOAD-WP-D8-4: 138 KV LINES AND TRANSFORMER AT SUBSTATION GAETZ 87S OUTAGE
WED, MAR 02 2011 10:33

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-613



RED DEER REGION STUDY

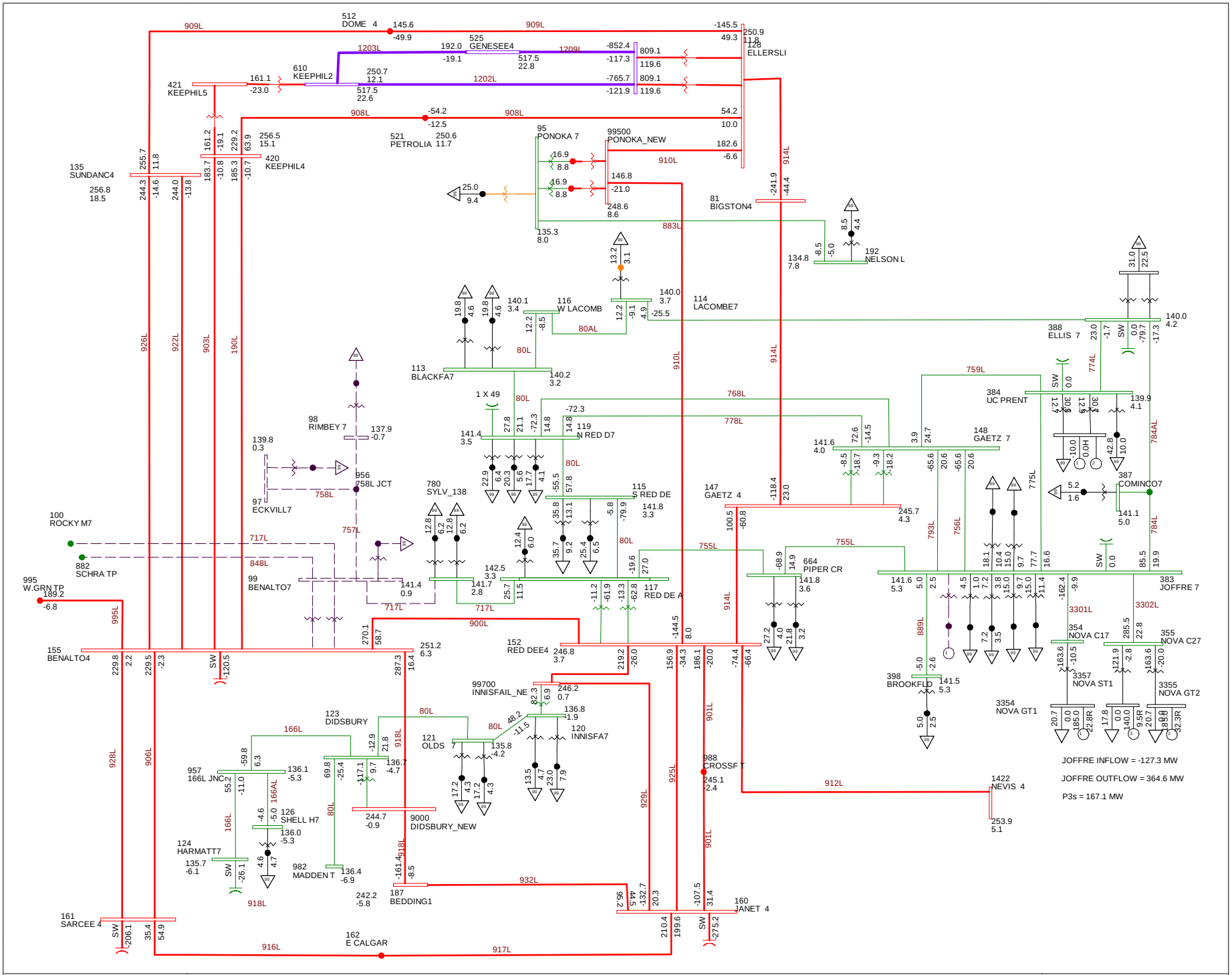
2012 WINTER PEAK BASE CASE REVISION 6.5

FIG 2012-ALT2-LOAD-WP-D8-5: 240 KV LINES AND TRANSFORMER AT SUBSTATION GAETZ 87S OUTAGE
WED, MAR 02 2011 10:33

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR

<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-614



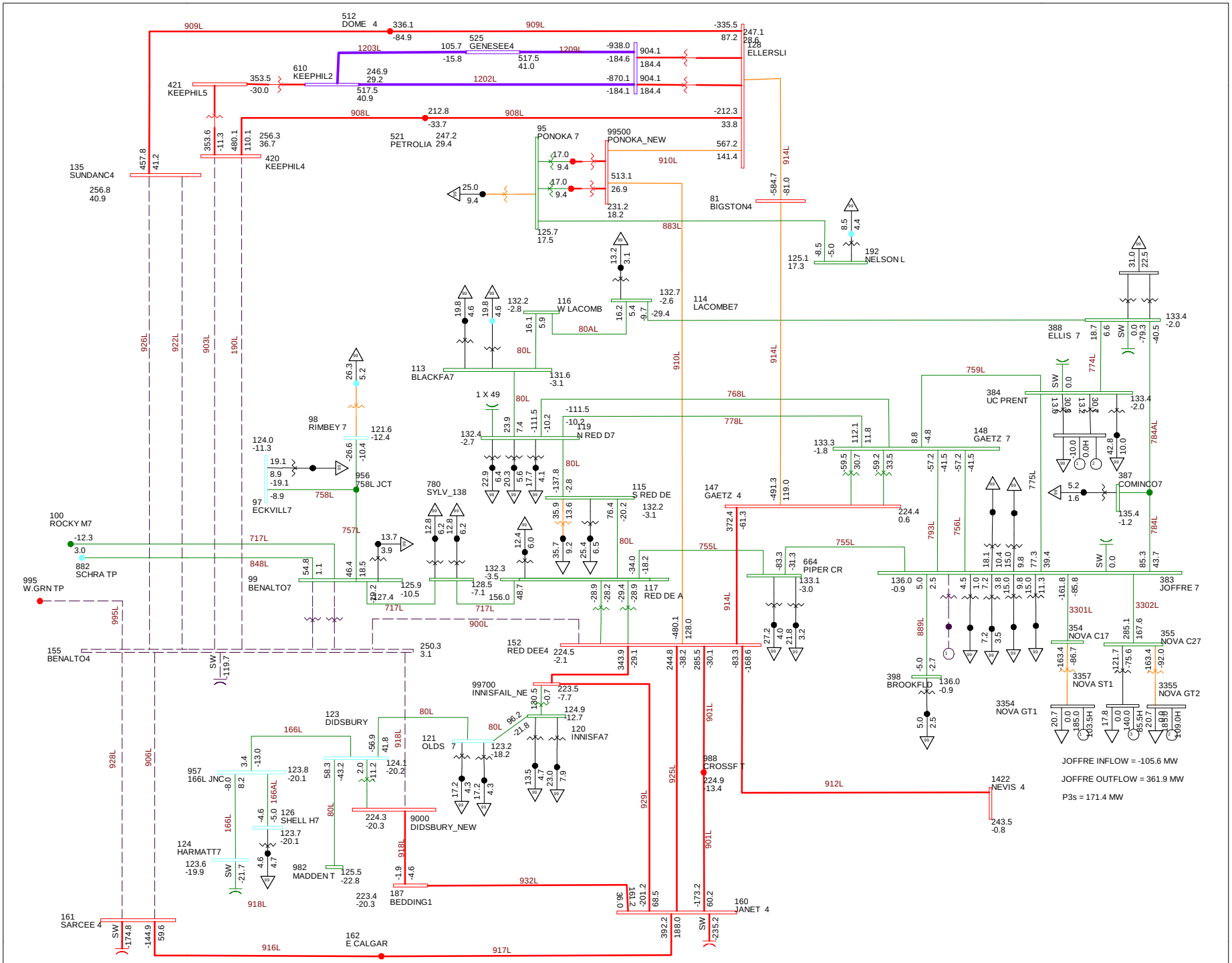
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FIG 2012-ALT2-LOAD-WP-D8-6: 138 KV LINES AND TRANSFORMER AT SUBSTATION BENALTO 17S OUTAGE
WED, MAR 02 2011 10:33

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-615



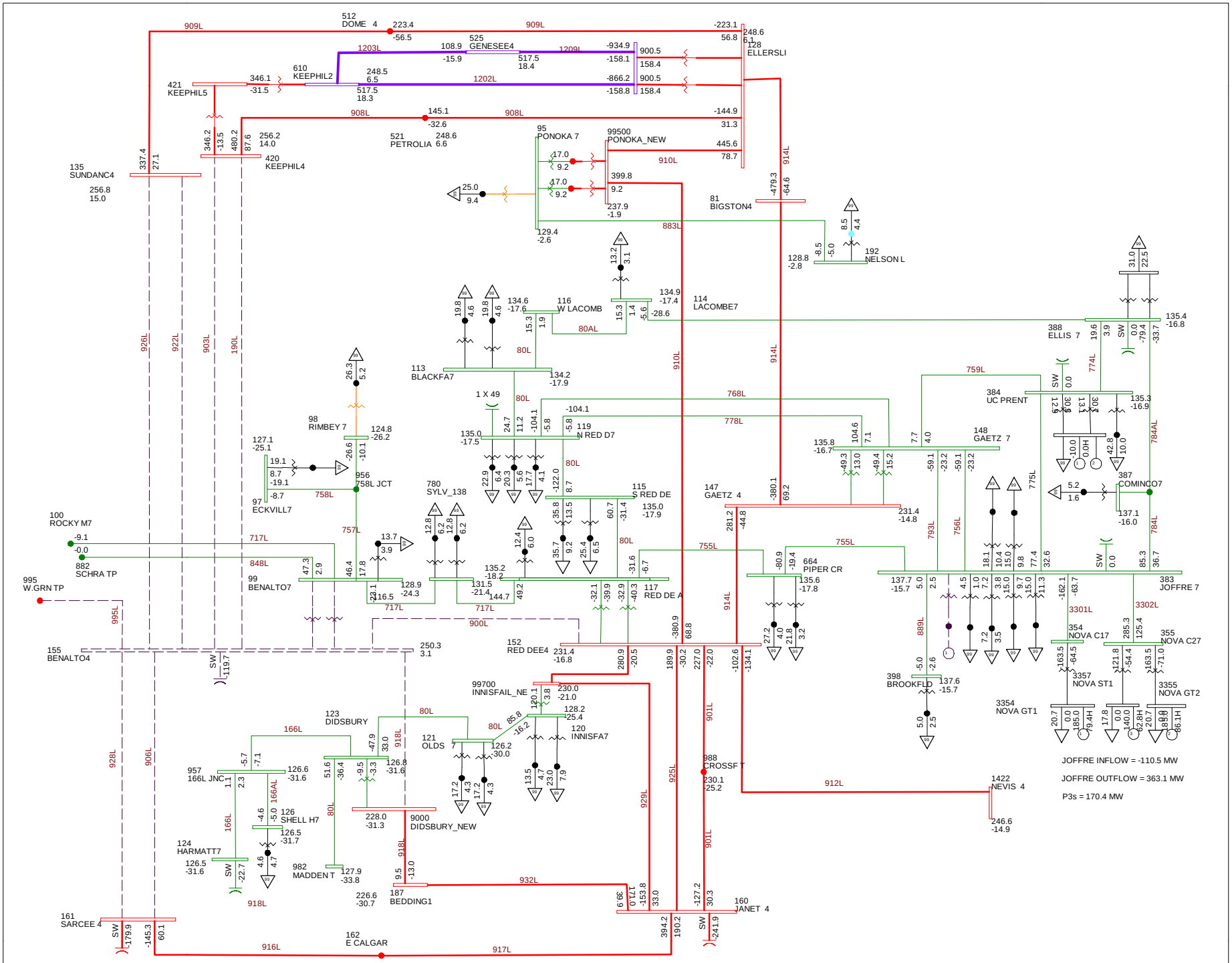
RED DEER REGION STUDY

2012 WINTER PEAK BASE CASE REVISION 6.5

FIG 2012-ALT2-LOAD-WP-D8-7: 240 KV LINES AND TRANSFORMER AT SUBSTATION BENALTO 17S OUTAGE
WED, MAR 02 2011 10:33

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-616



RED DEER REGION STUDY

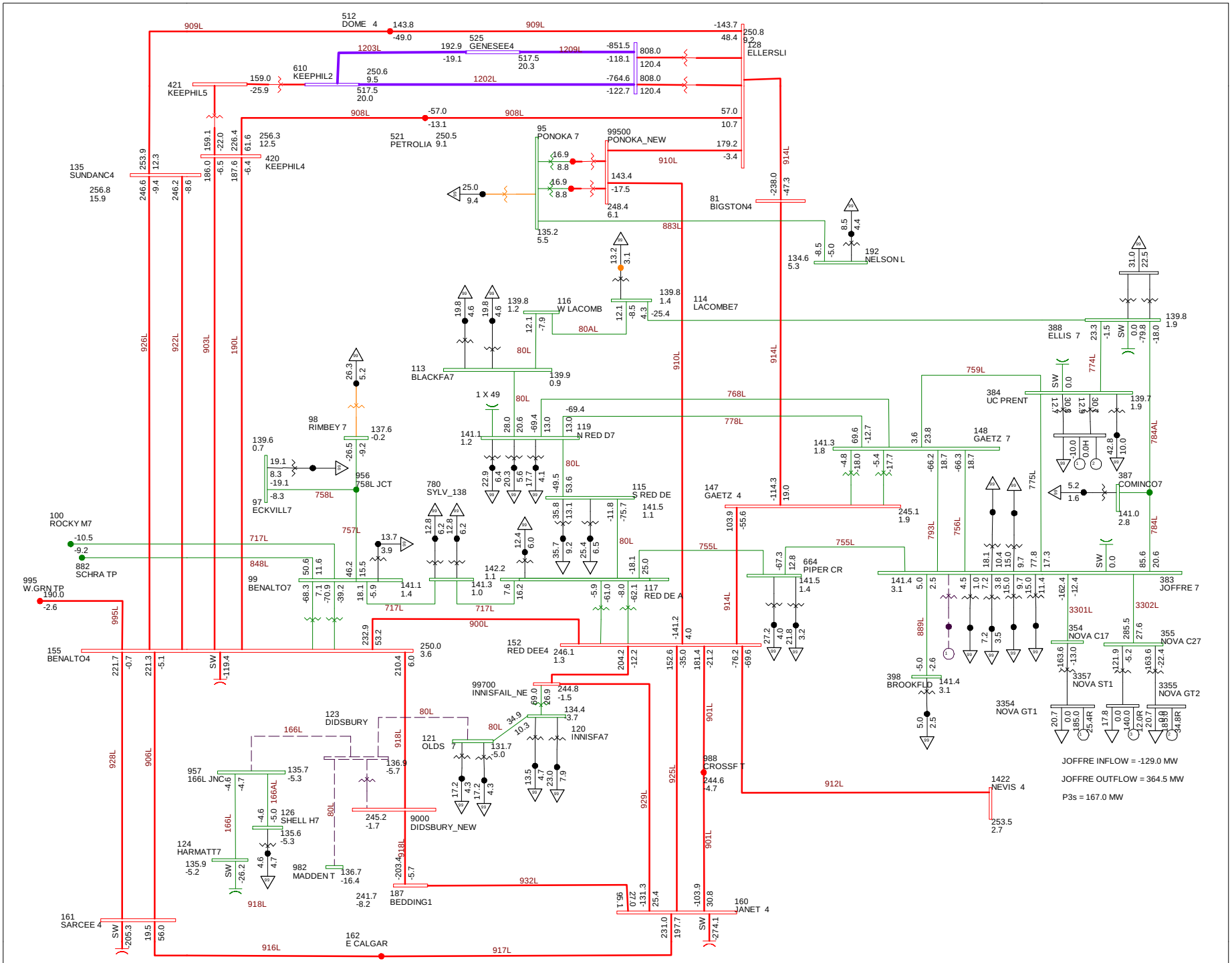
2012 WINTER PEAK BASE CASE REVISION 6.5

FIG 2012-ALT2-LOAD-WP-D8-7-1: 240 KV LINES AND TRANSFORMER A SUBSTATION BENALTO 17S OUTAGE WITH RAS
WED, MAR 02 2011 10:33

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR

<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-617



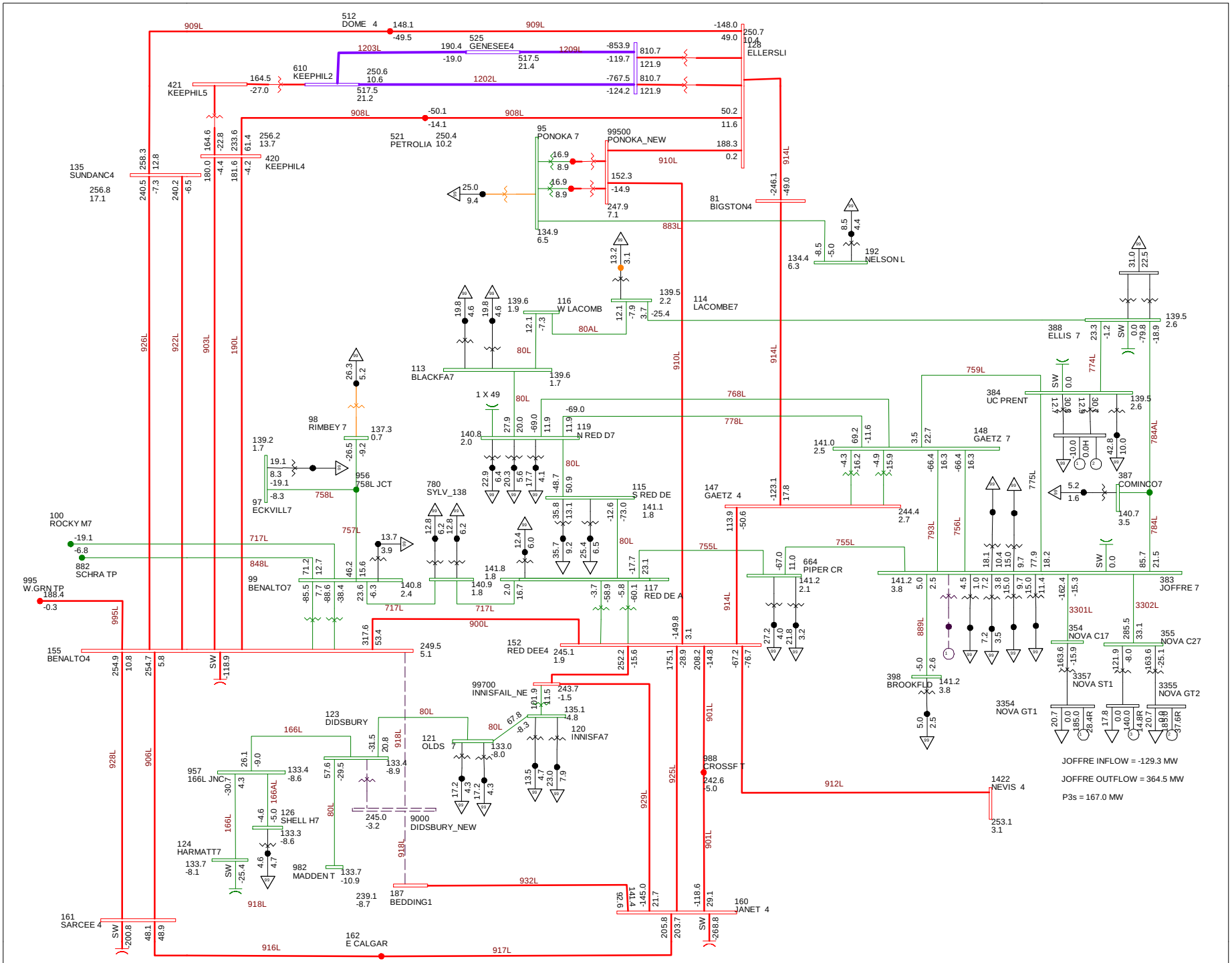
RED DEER REGION STUDY

2012 WINTER PEAK BASE CASE REVISION 6.5

FIG 2012-ALT2-LOAD-WP-D8-8: 138 KV LINES AND TRANSFORMER AT SUBSTATION DIDSBURY (152S) OUTAGE
WED, MAR 02 2011 10:33

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-618

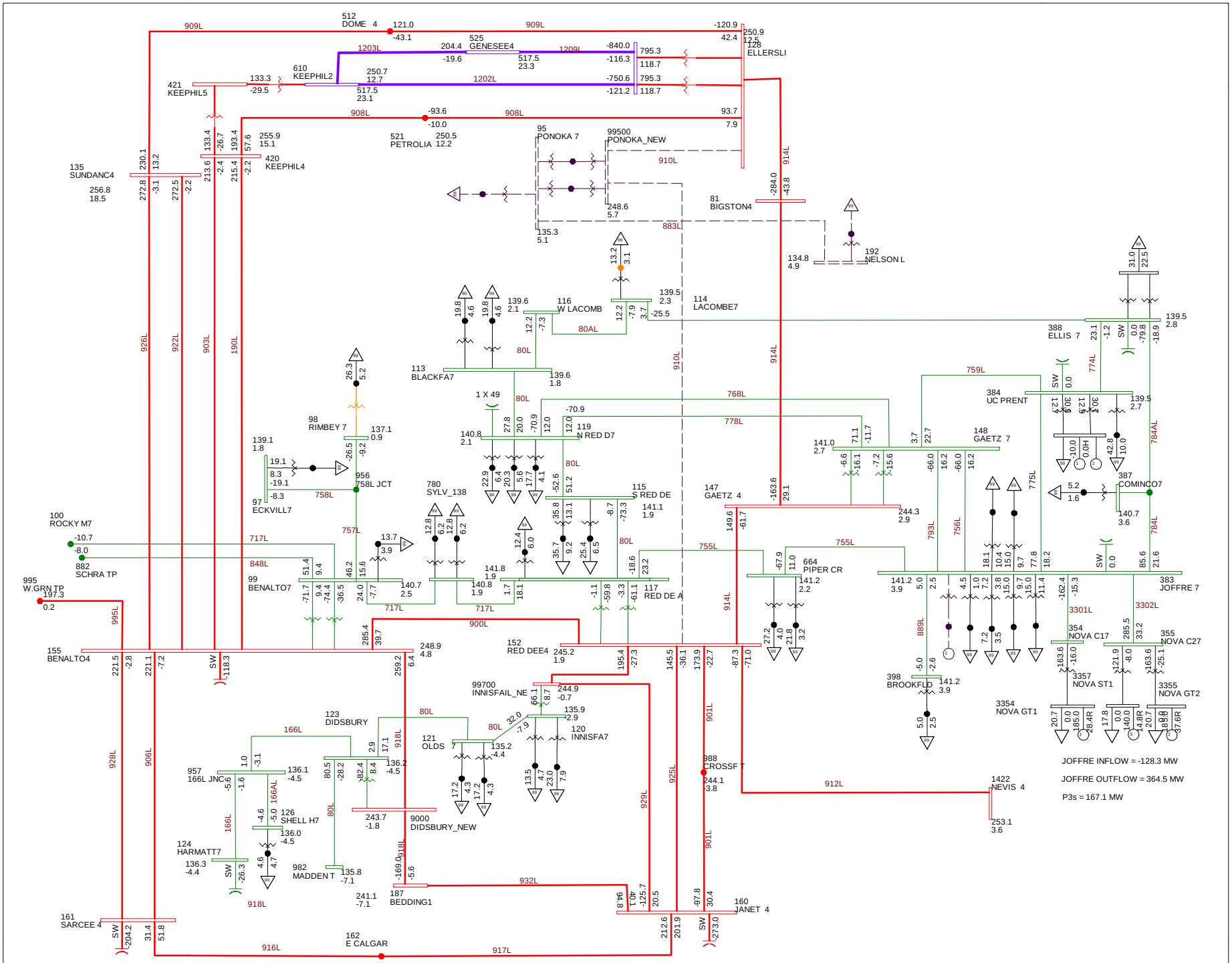


RED DEER REGION STUDY
2012 WINTER PEAK BASE CASE REVISION 6.5

FIG 2012-ALT2-LOAD-WP-D8-9:
240 KV LINES AND TRANSFORMER AT SUBSTATION DIDSBURY (152S)
WED, MAR 02 2011 10:33

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-619



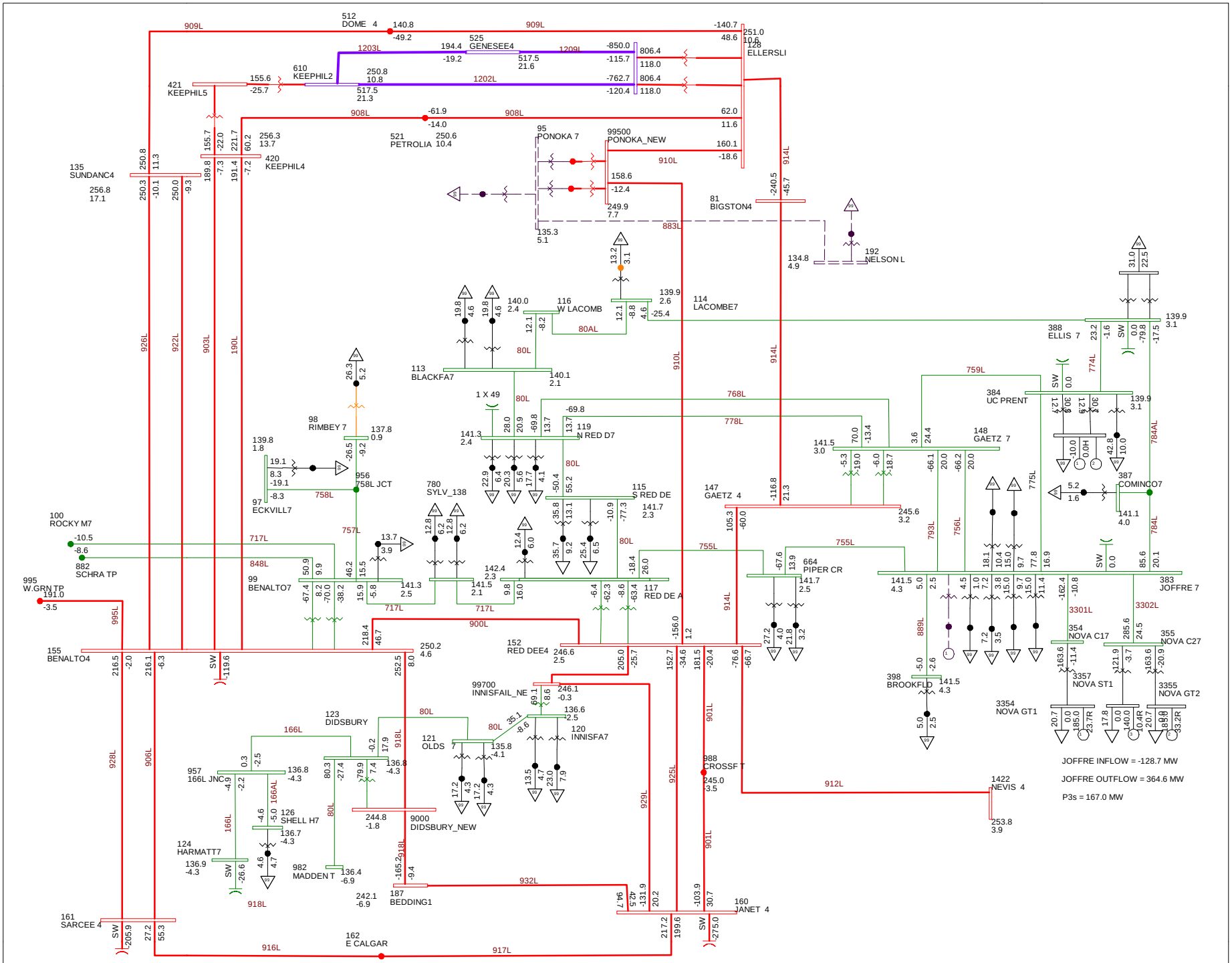
RED DEER REGION STUDY

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FIG 2012-ALT2-LOAD-WP-D8-10: 240 KV LINES AND TRANSFORMER AT SUBSTATION PONOKA 331S OUTAGE
WED, MAR 02 2011 10:33

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-620

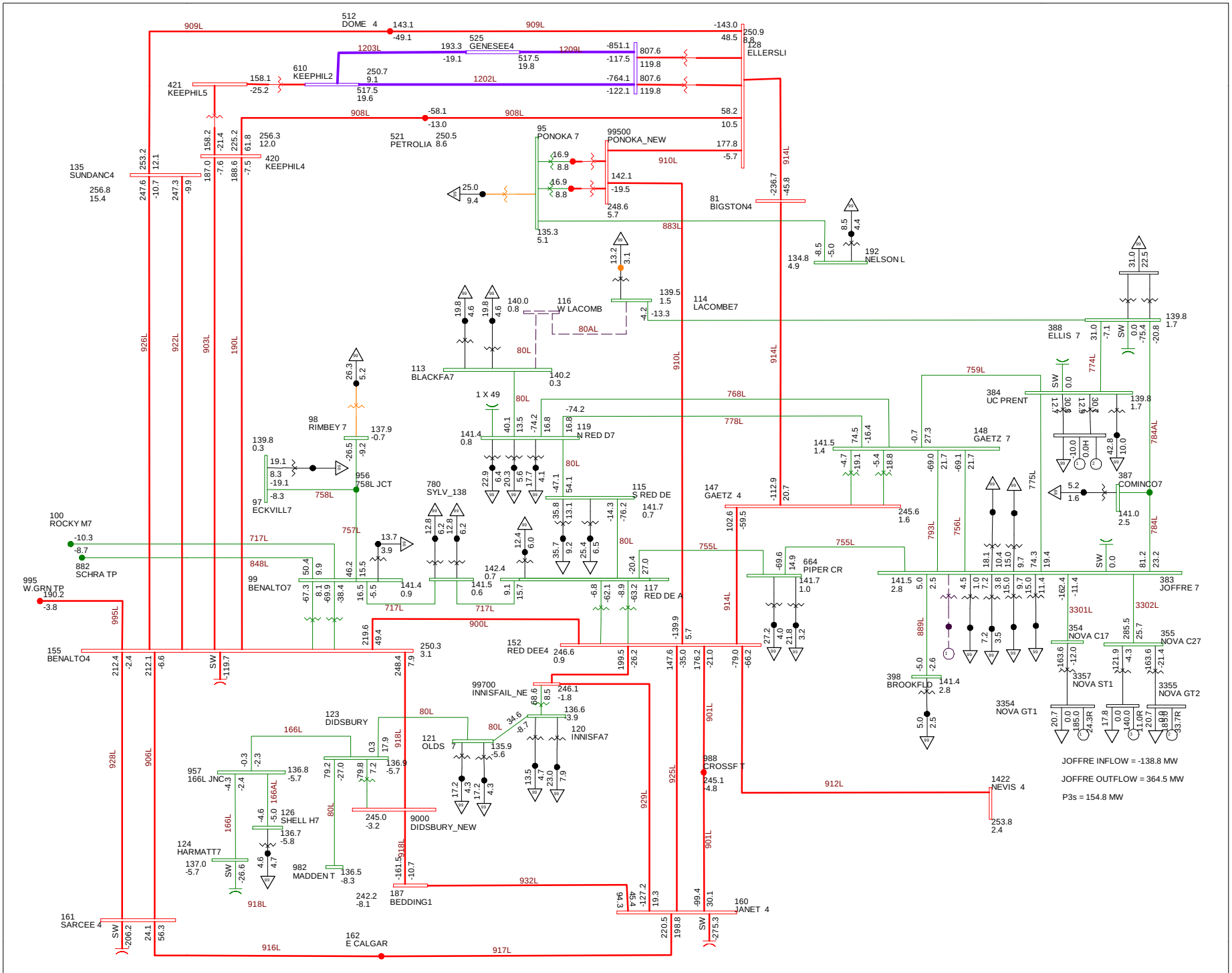


RED DEER REGION STUDY

2012 WINTER PEAK BASE CASE REVISION 6.5

FIG 2012-ALT2-LOAD-WP-D8-11: 138 KV LINES AND TRANSFORMER AT SUBSTATION PONOKA 331S OUTAGE
WED, MAR 02 2011 10:33

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000



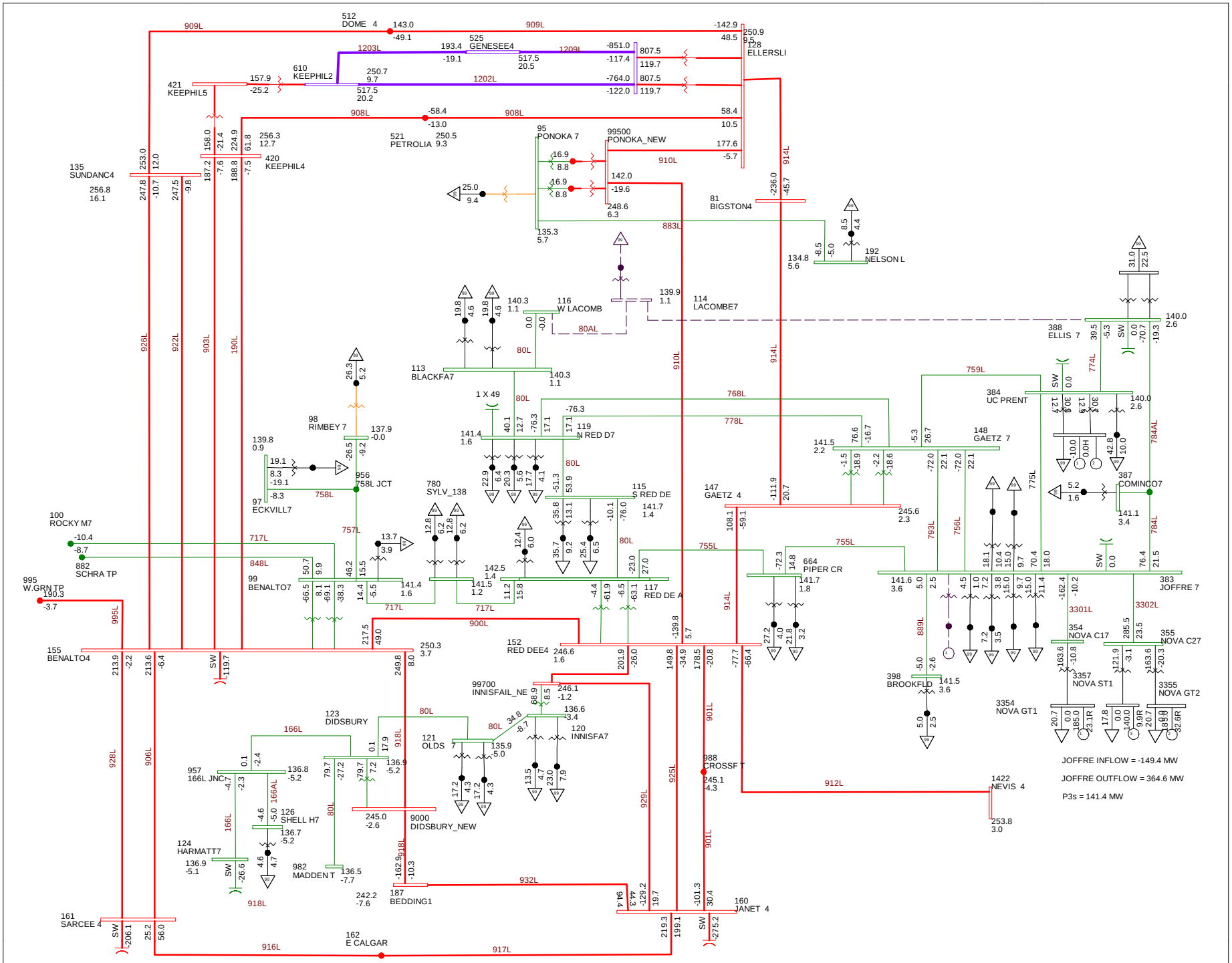
RED DEER REGION STUDY

2012 WINTER PEAK BASE CASE REVISION 6.5

FIG 2012-ALT2-LOAD-WP-D8-12:
138 KV SUBSTATION W. LACOMBE 958S OUTAGE
WED, MAR 02 2011 10:33

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-622

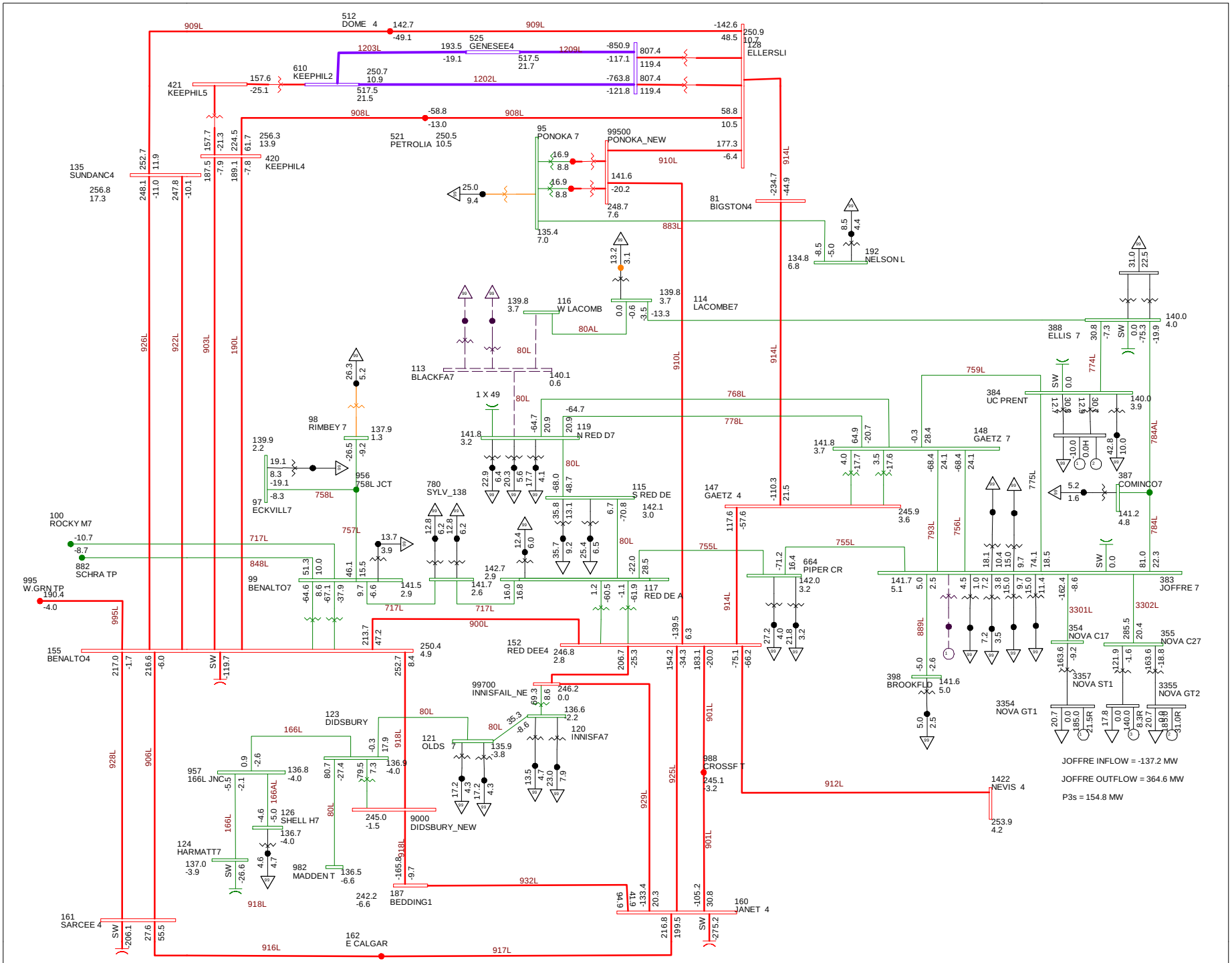


RED DEER REGION STUDY
2012 WINTER PEAK BASE CASE REVISION 6.5

FIG 2012-ALT2-LOAD-WP-D8-13:
138 KV SUBSTATION N.E. LACOMBE 212S OUTAGE
WED, MAR 02 2011 10:33

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-623

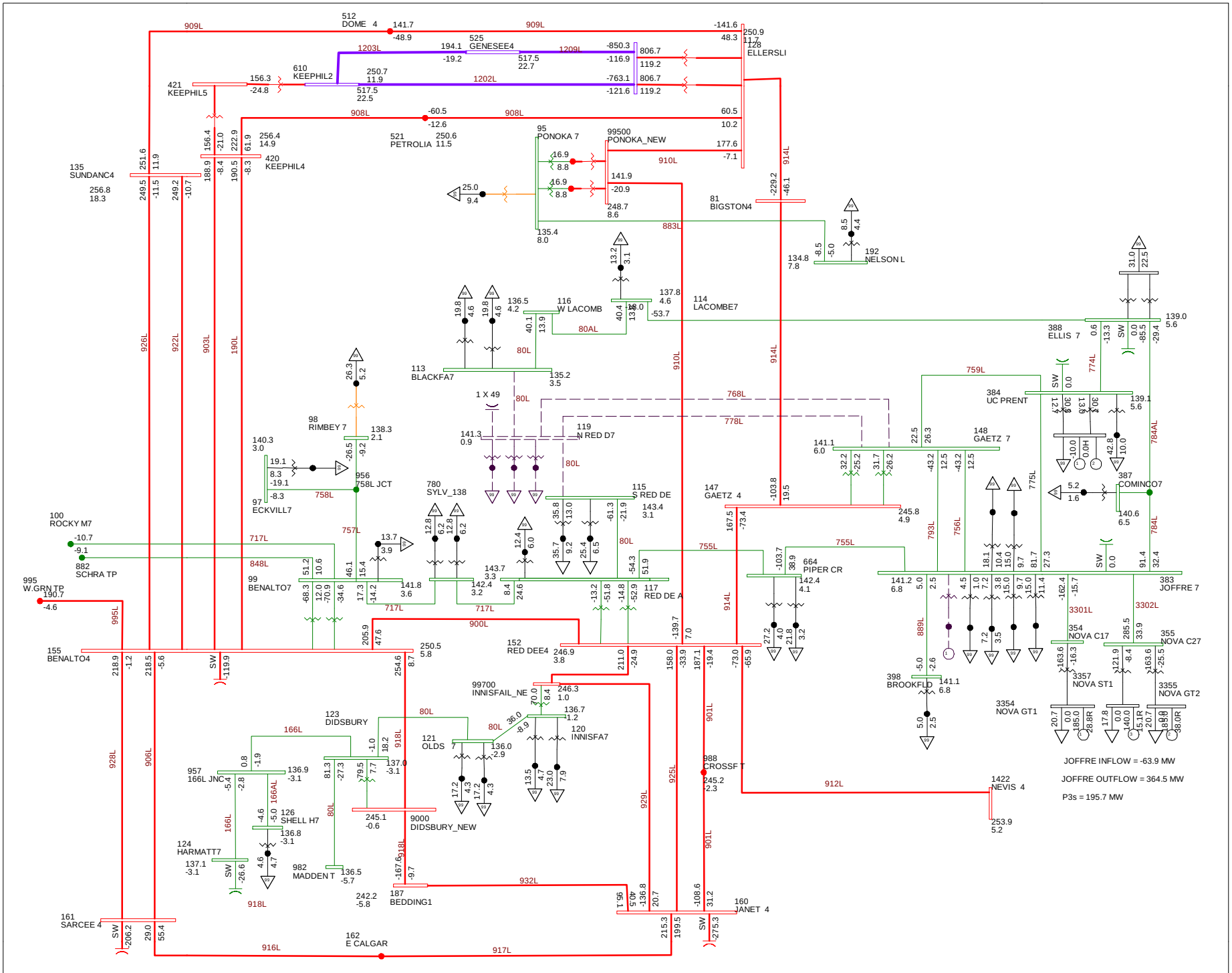


RED DEER REGION STUDY

2012 WINTER PEAK BASE CASE REVISION 6.5

FIG 2012-ALT2-LOAD-WP-D8-14:
138 KV SUBSTATION BLACKFALDS 198S OUTAGE
WED, MAR 02 2011 10:33

D-2012-624



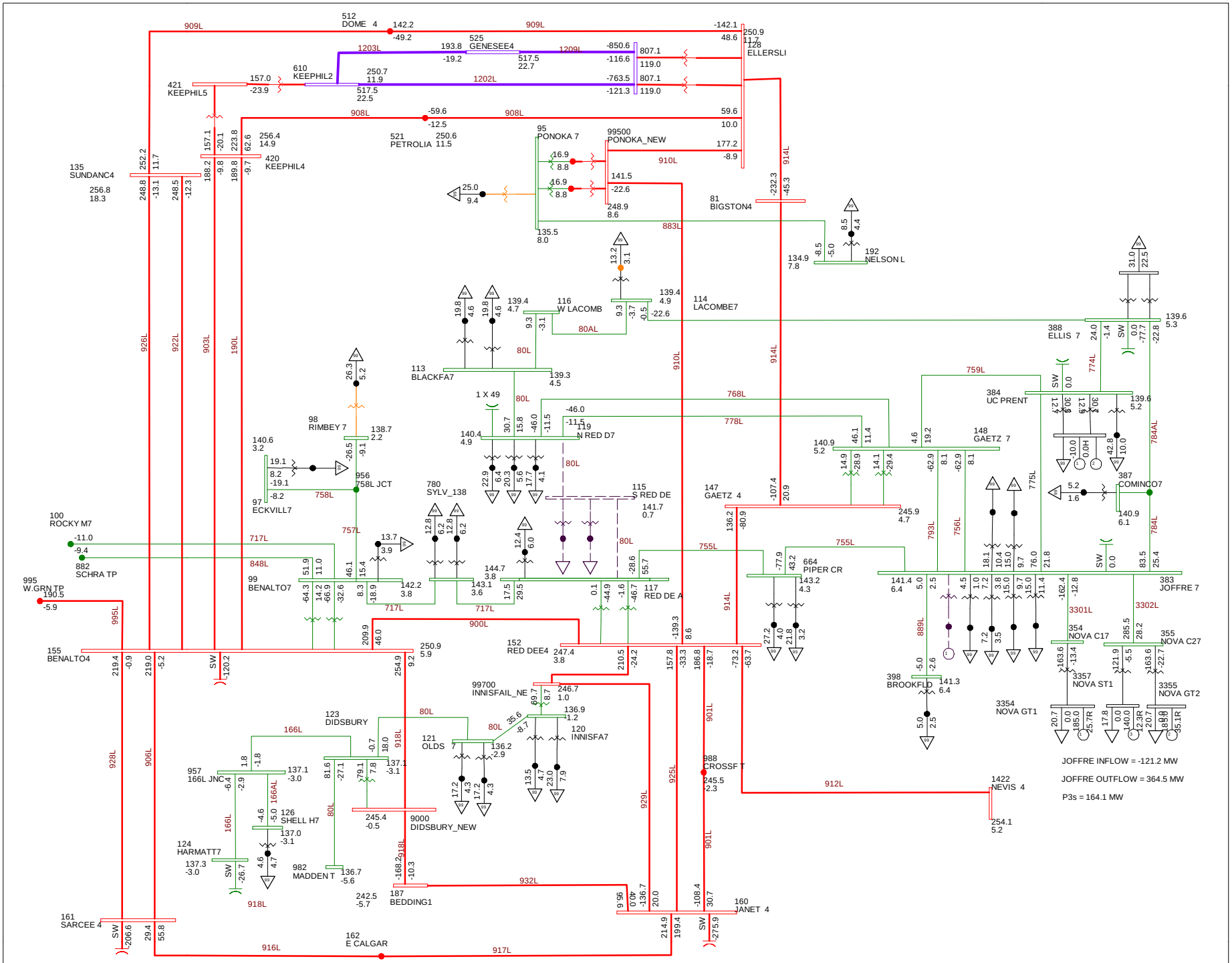
RED DEER REGION STUDY

2012 WINTER PEAK BASE CASE REVISION 6.5

FIG 2012-ALT2-LOAD-WP-D8-15:
138 KV SUBSTATION N. RED DEER 217S OUTAGE
WED, MAR 02 2011 10:33

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-625



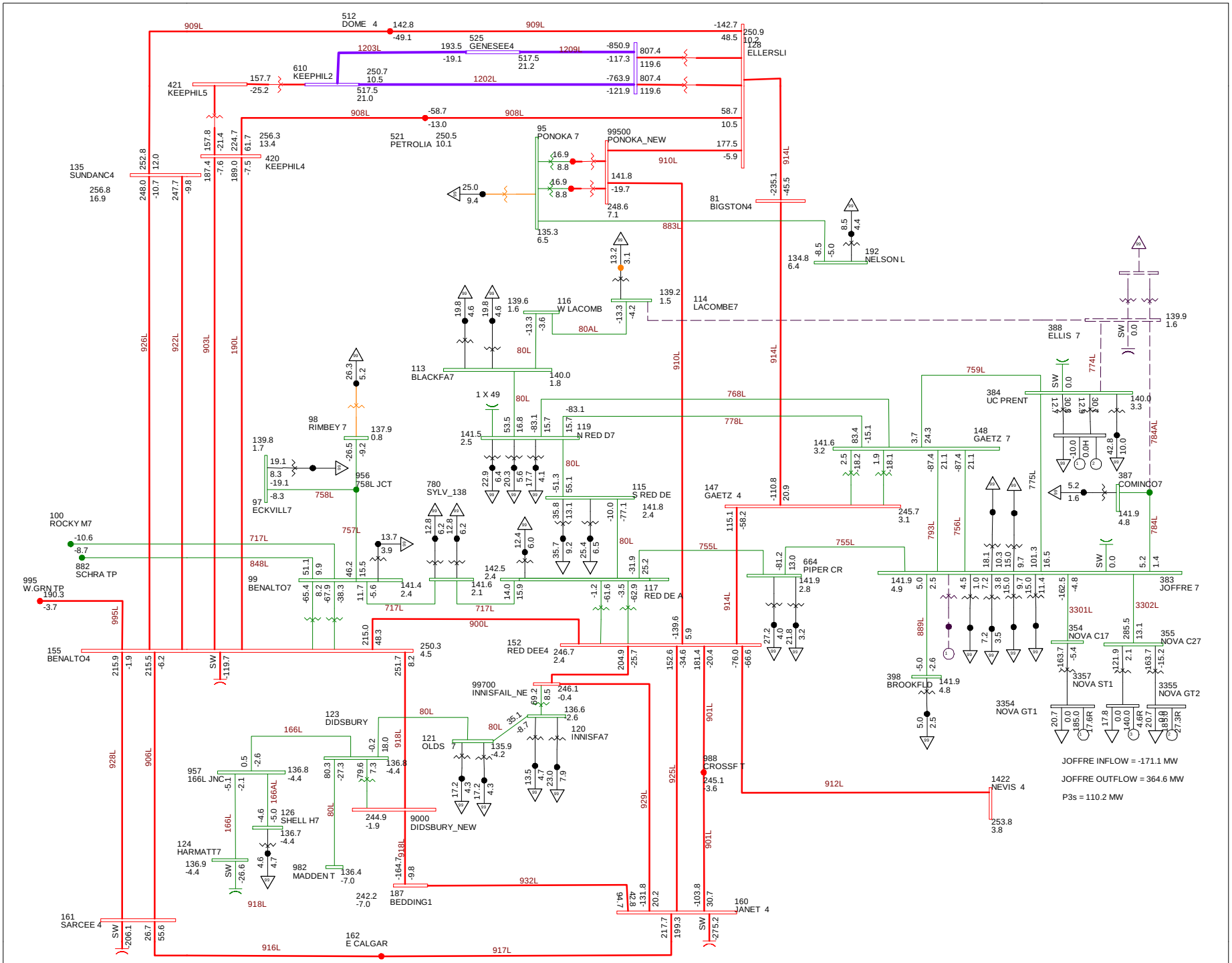
RED DEER REGION STUDY

2012 WINTER PEAK BASE CASE REVISION 6.5

FIG 2012-ALT2-LOAD-WP-D8-16:
138 KV SUBSTATION S. RED DEER 194S OUTAGE
WED, MAR 02 2011 10:33

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-626

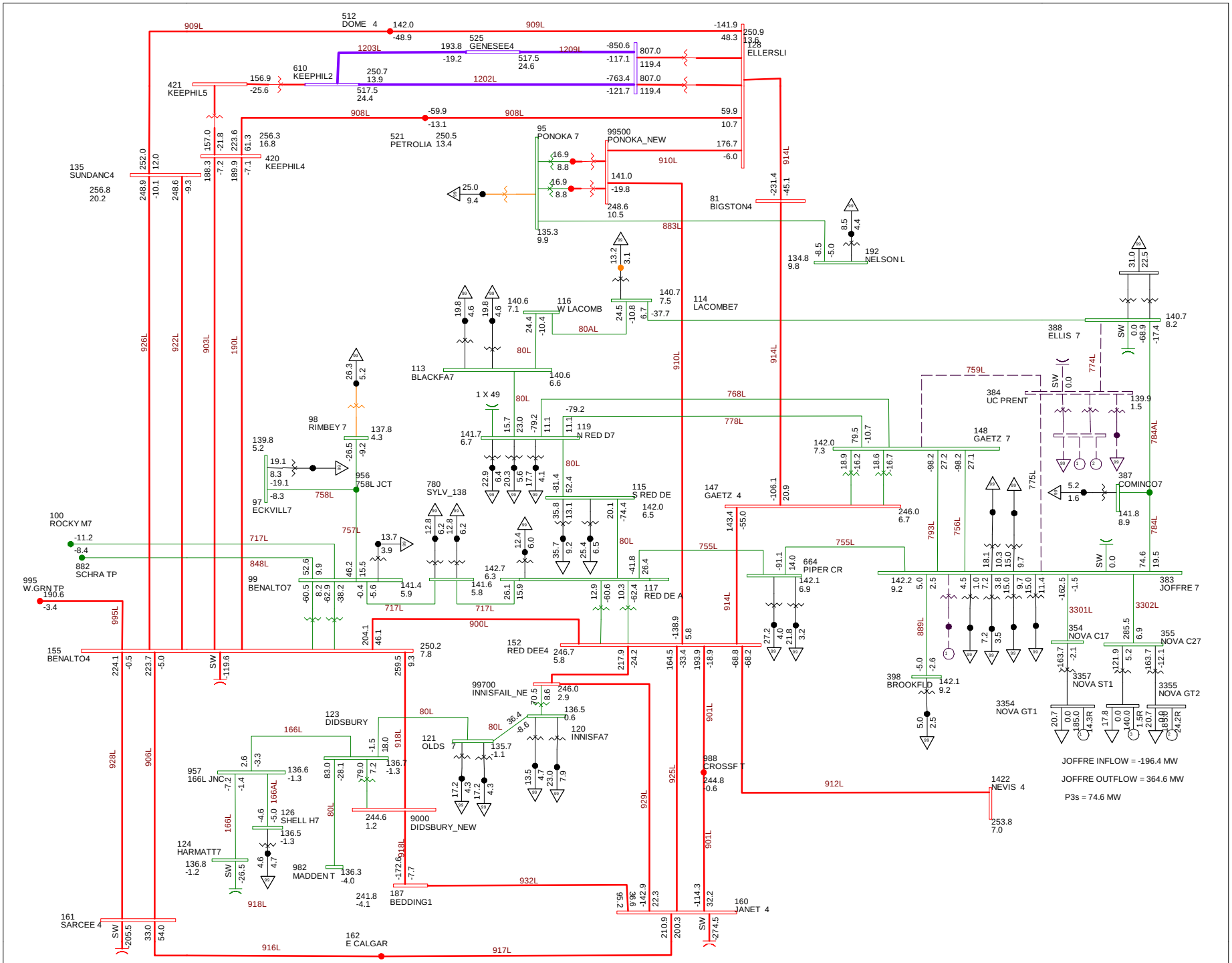


RED DEER REGION STUDY
2012 WINTER PEAK BASE CASE REVISION 6.5

FIG 2012-ALT2-LOAD-WP-D8-17:
138 KV SUBSTATION ELLIS 332S OUTAGE
WED, MAR 02 2011 10:33

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-627



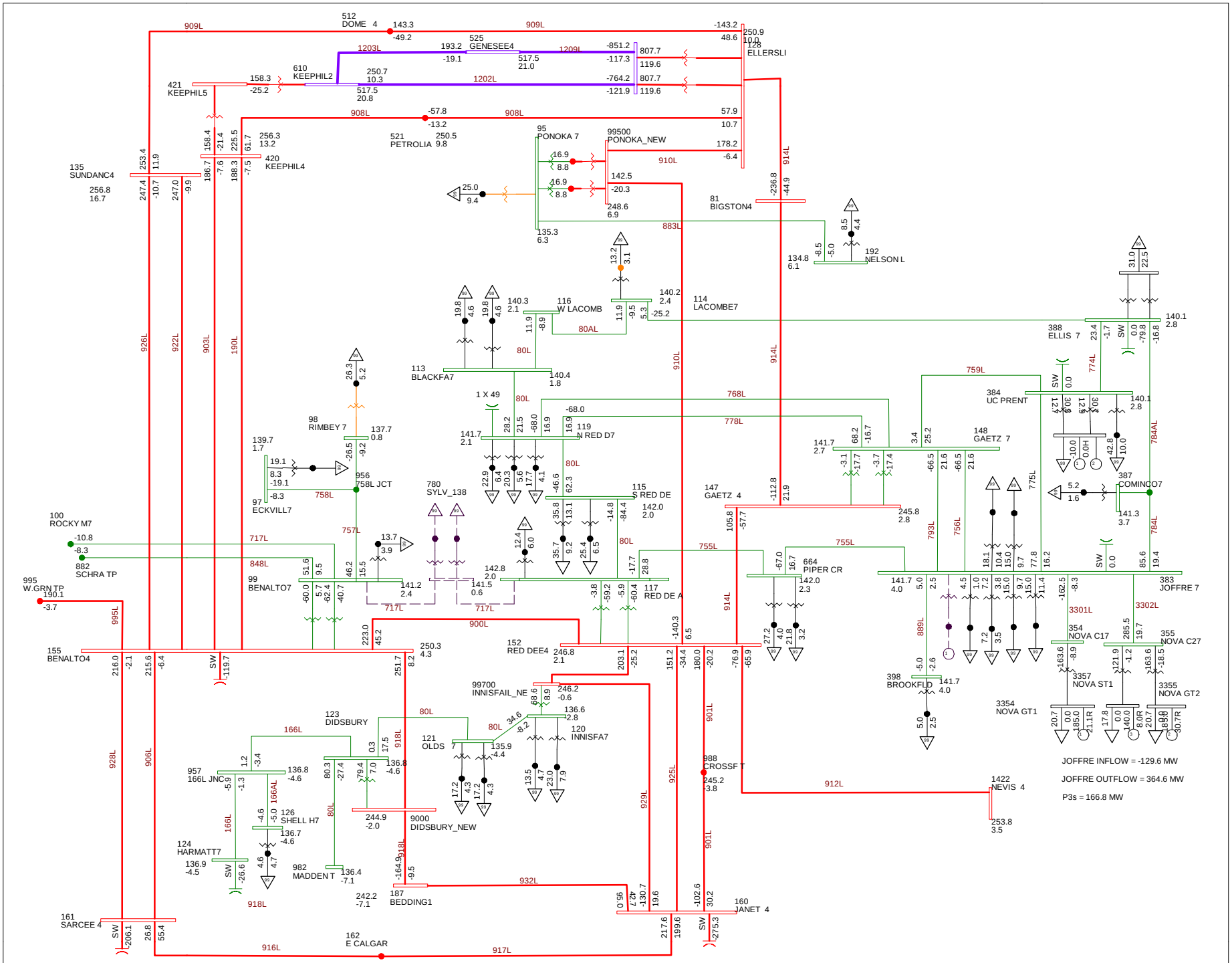
RED DEER REGION STUDY

2012 WINTER PEAK BASE CASE REVISION 6.5

FIG 2012-ALT2-LOAD-WP-D8-18:
138 KV SUBSTATION U.C. PRENTISS 276S OUTAGE
WED, MAR 02 2011 10:33

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-628



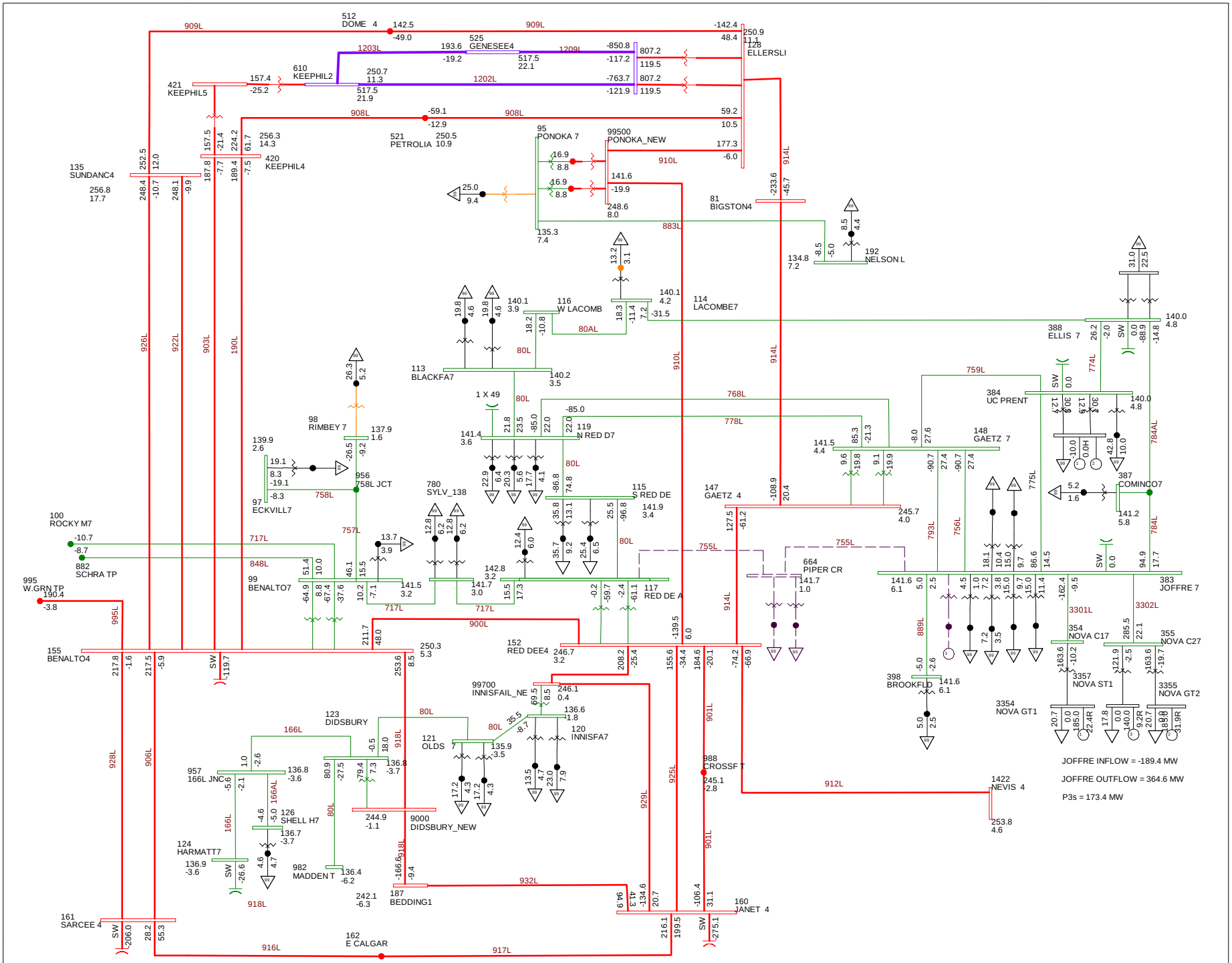
RED DEER REGION STUDY

2012 WINTER PEAK BASE CASE REVISION 6.5

FIG 2012-ALT2-LOAD-WP-D8-19:
138 KV SUBSTATION SYLVAN LAKE 580S OUTAGE
WED, MAR 02 2011 10:33

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-629



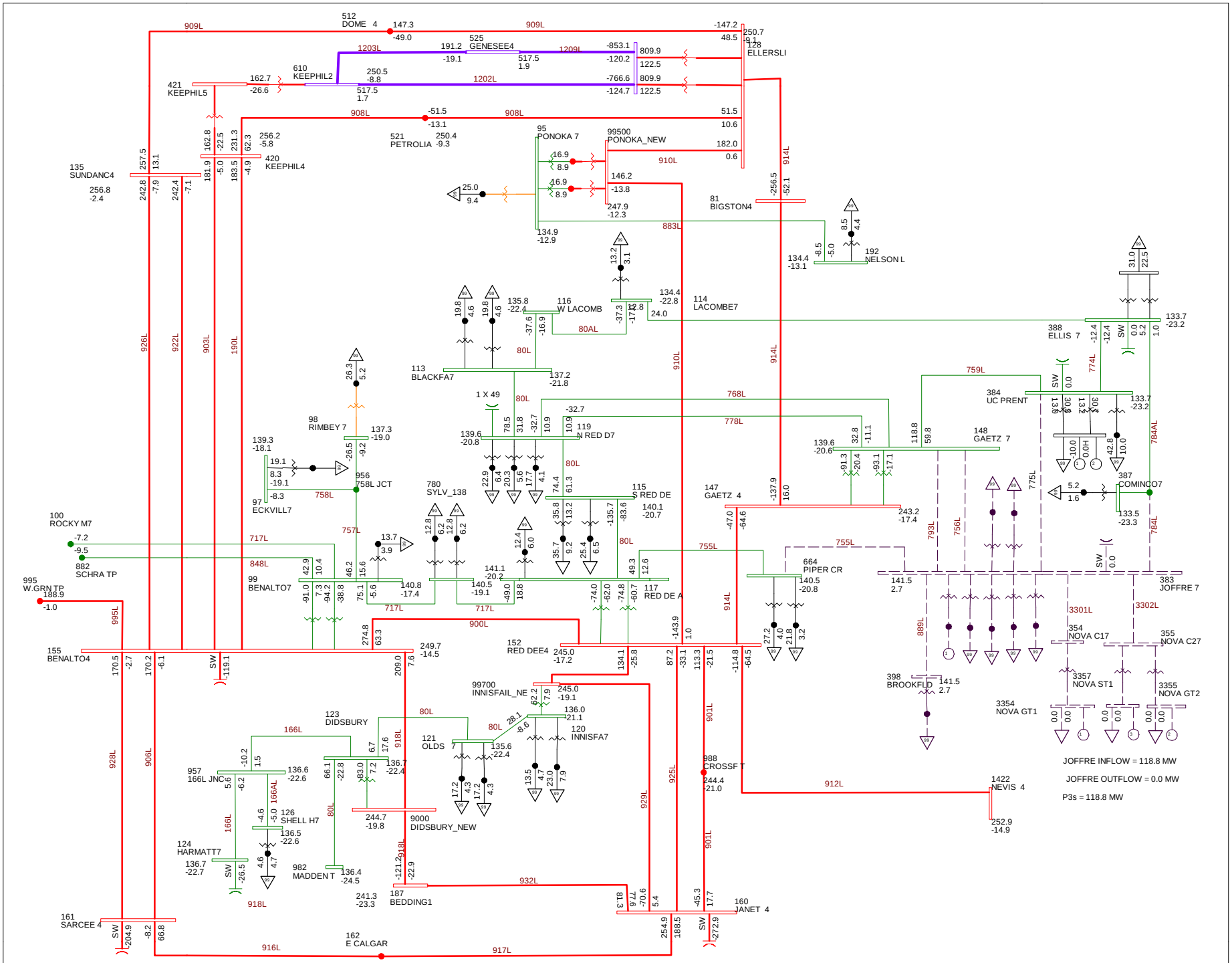
RED DEER REGION STUDY

2012 WINTER PEAK BASE CASE REVISION 6.5

FIG 2012-ALT2-LOAD-WP-D8-20:
138 KV SUBSTATION PIPER CREEK 274S OUTAGE
WED, MAR 02 2011 10:33

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-630



RED DEER REGION STUDY

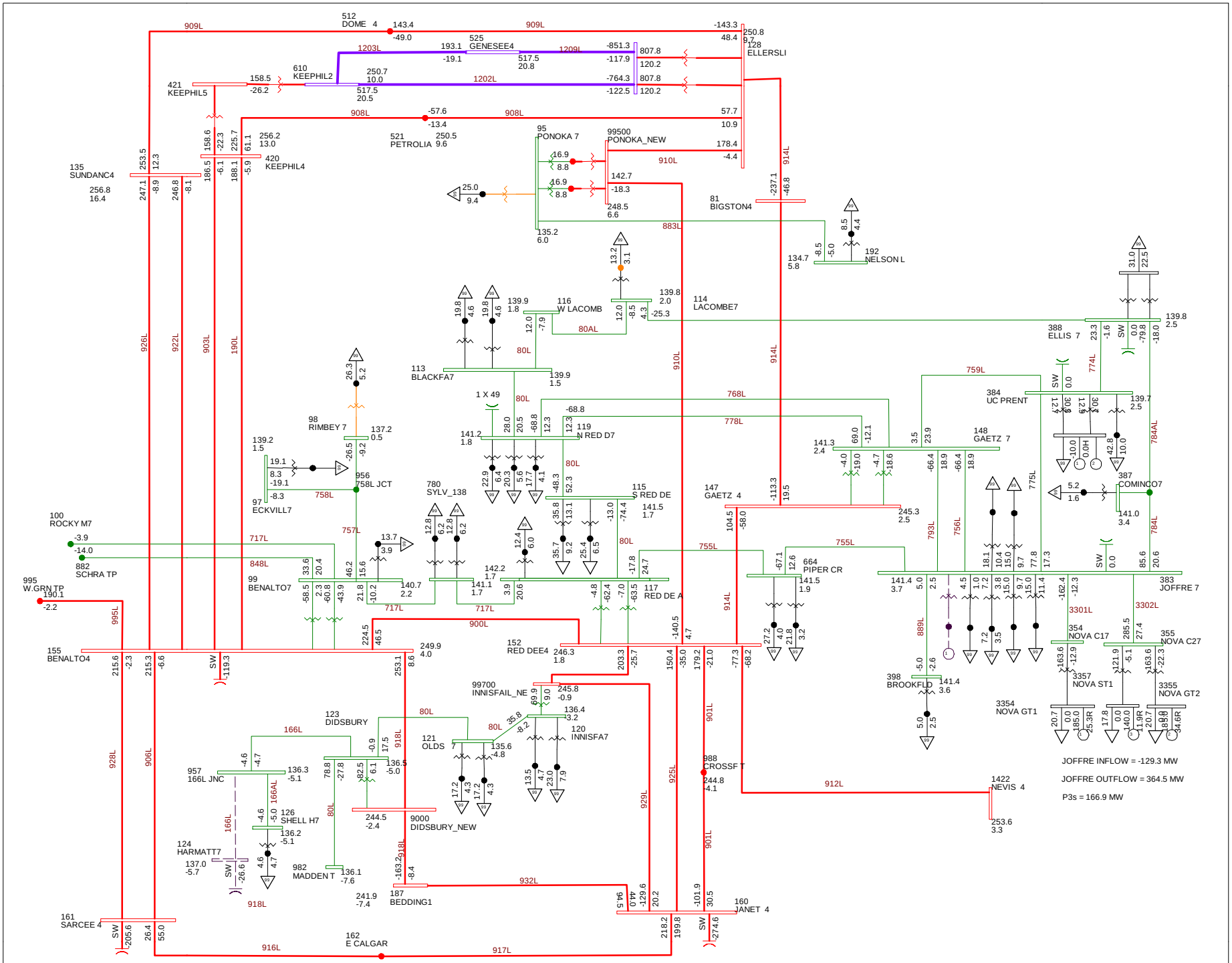
2012 WINTER PEAK BASE CASE REVISION 6.5

FIG 2012-ALT2-LOAD-WP-D8-21:
138 KV SUBSTATION JOFFRE 535S OUTAGE
WED, MAR 02 2011 10:33

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR

<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-631



RED DEER REGION STUDY

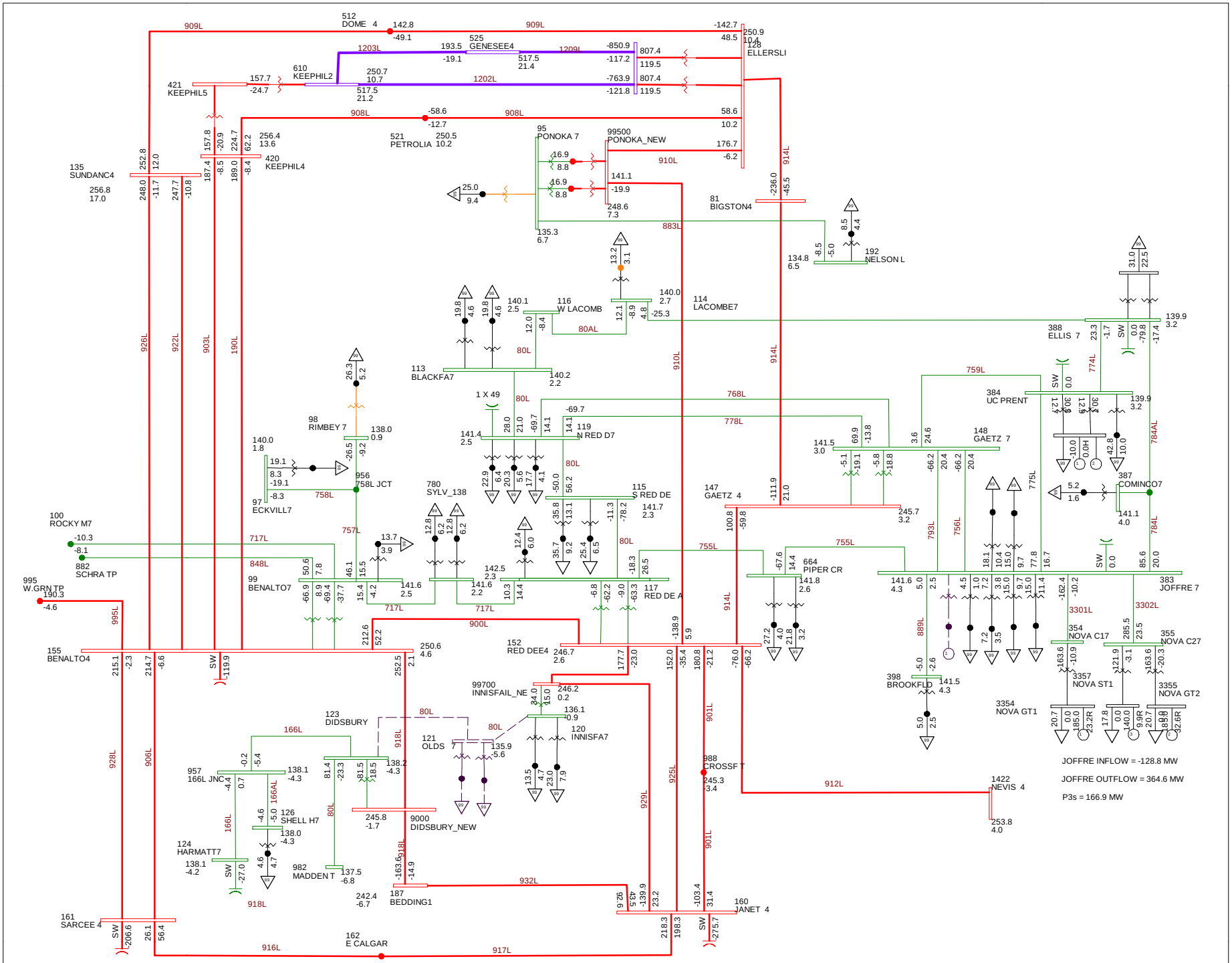
2012 WINTER PEAK BASE CASE REVISION 6.5

FIG 2012-ALT2-LOAD-WP-D8-22:
138 KV SUBSTATION HARMATTAN 256S OUTAGE
WED, MAR 02 2011 10:33

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR

<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-632

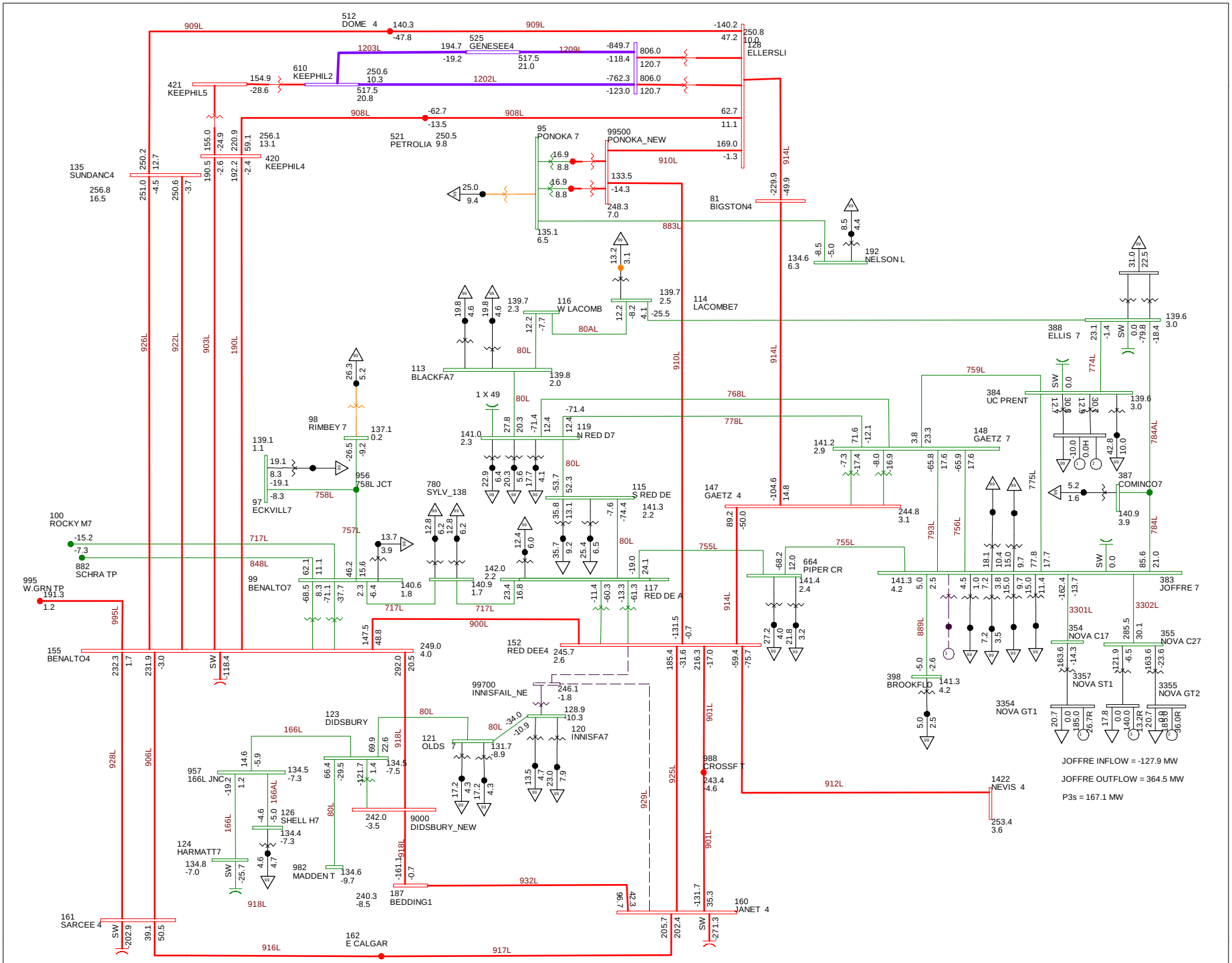


RED DEER REGION STUDY
2012 WINTER PEAK BASE CASE REVISION 6.5

FIG 2012-ALT2-LOAD-WP-D8-23:
138 KV SUBSTATION OLDS 55S OUTAGE
WED, MAR 02 2011 10:33

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-633



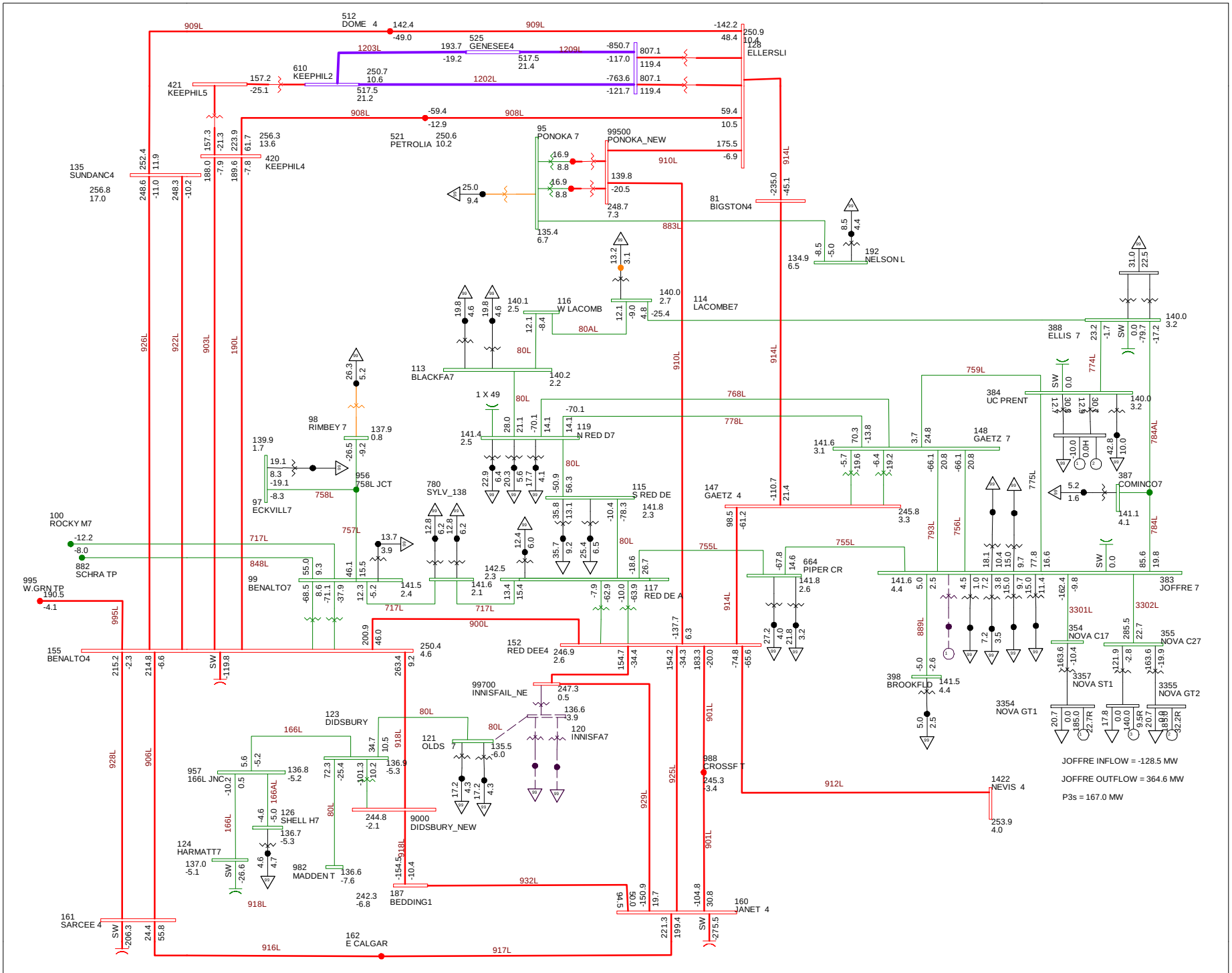
RED DEER REGION STUDY

2012 WINTER PEAK BASE CASE REVISION 6.5

FIG 2012-ALT2-LOAD-WP-D8-24-1: 240 KV LINES AND TRANSFORMER SUBSTATION INNISFAIL 214S OUTAGE WITH RAS
WED, MAR 02 2011 10:33

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-634



RED DEER REGION STUDY

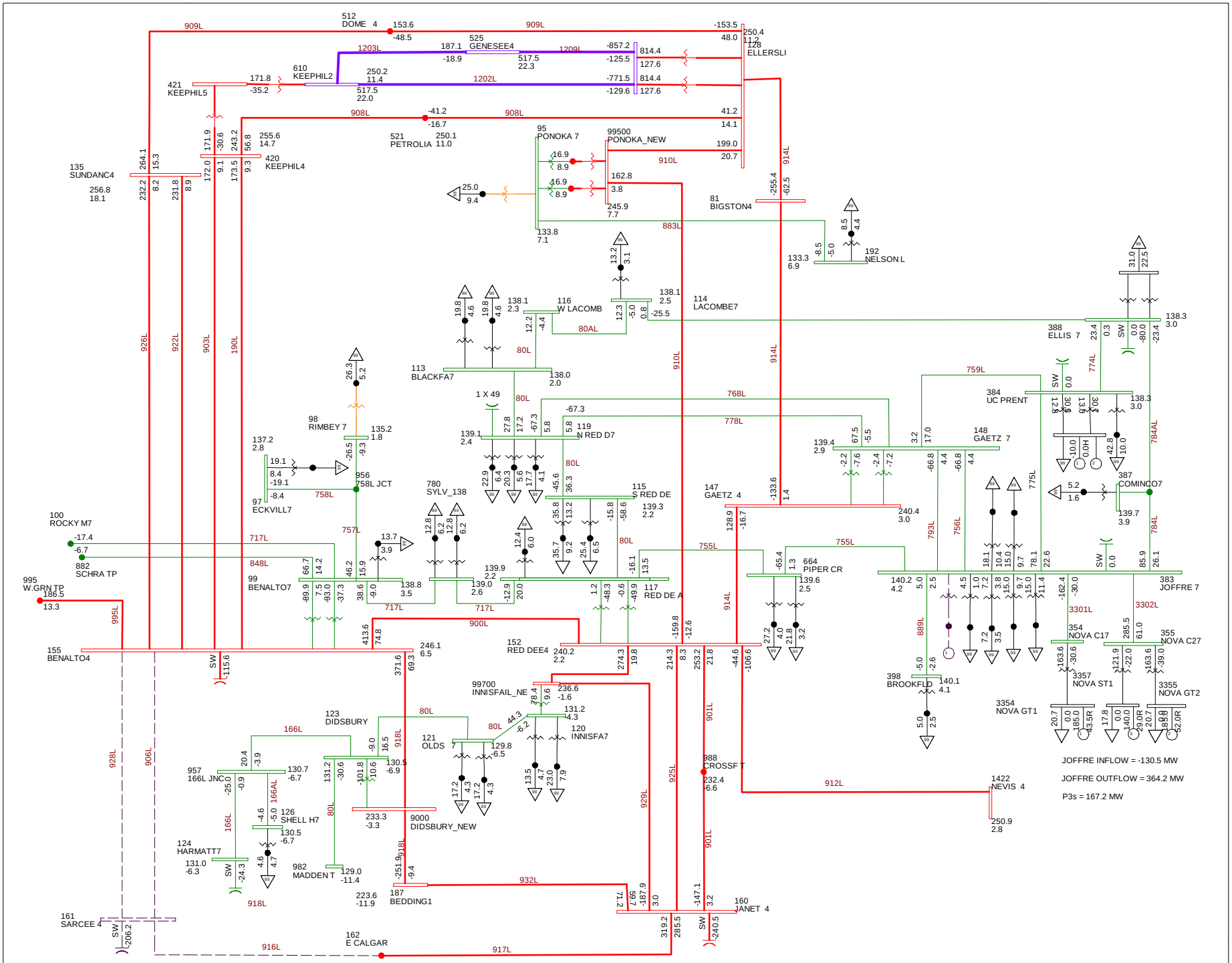
2012 WINTER PEAK BASE CASE REVISION 6.5

FIG 2012-ALT2-LOAD-WP-D8-25 138 KV LINES AND TRANSFORMER AT SUBSTATION INNISFAIL 214S OUTAGE
WED, MAR 02 2011 10:33

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR

<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-635



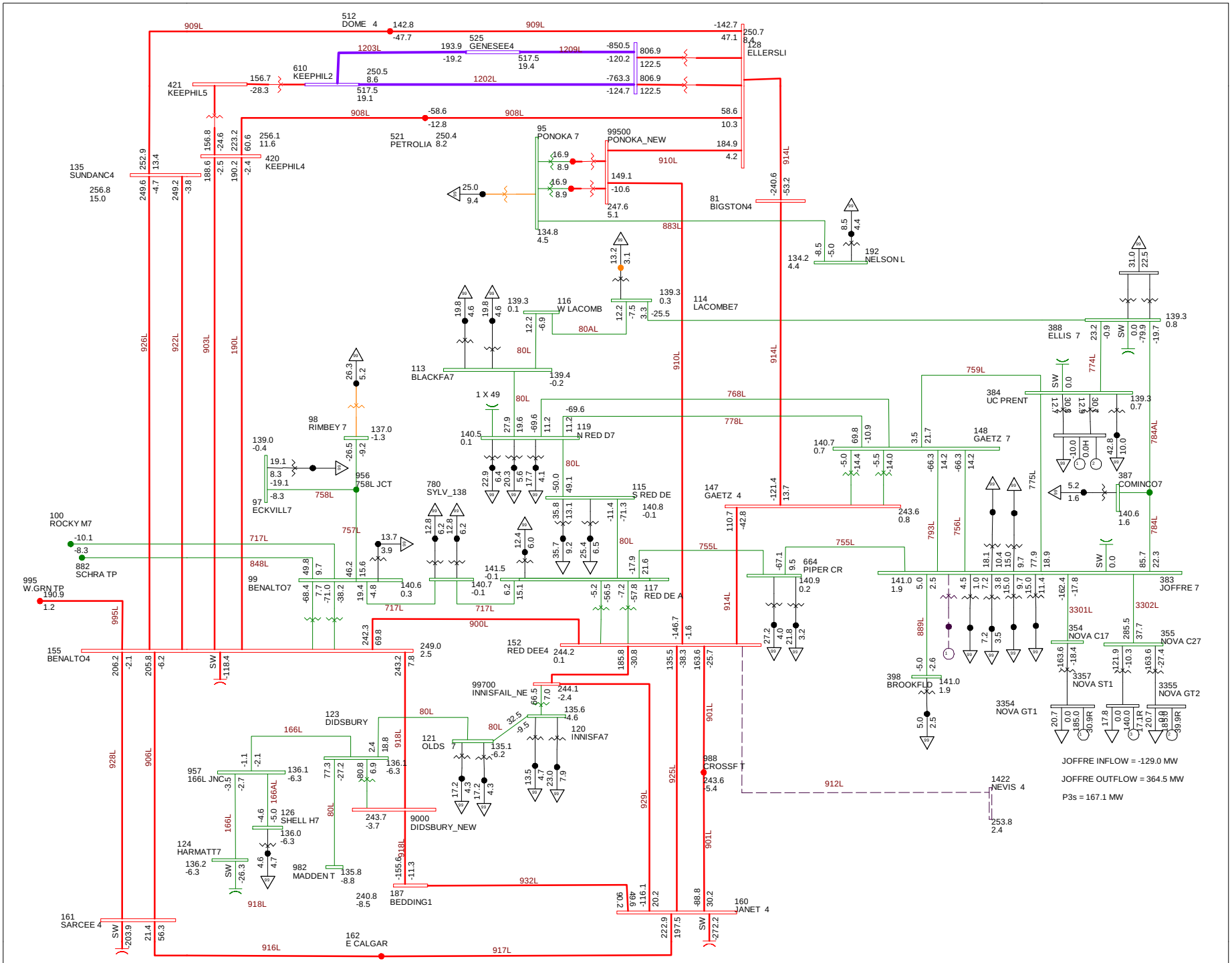
RED DEER REGION STUDY

2012 WINTER PEAK BASE CASE REVISION 6.5

FIG 2012-ALT2-LOAD-WP-D8-26: 240 KV LINES AND TRANSFORMER AT SUBSTATION SARCEE 42S OUTAGE
WED, MAR 02 2011 10:33

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-636



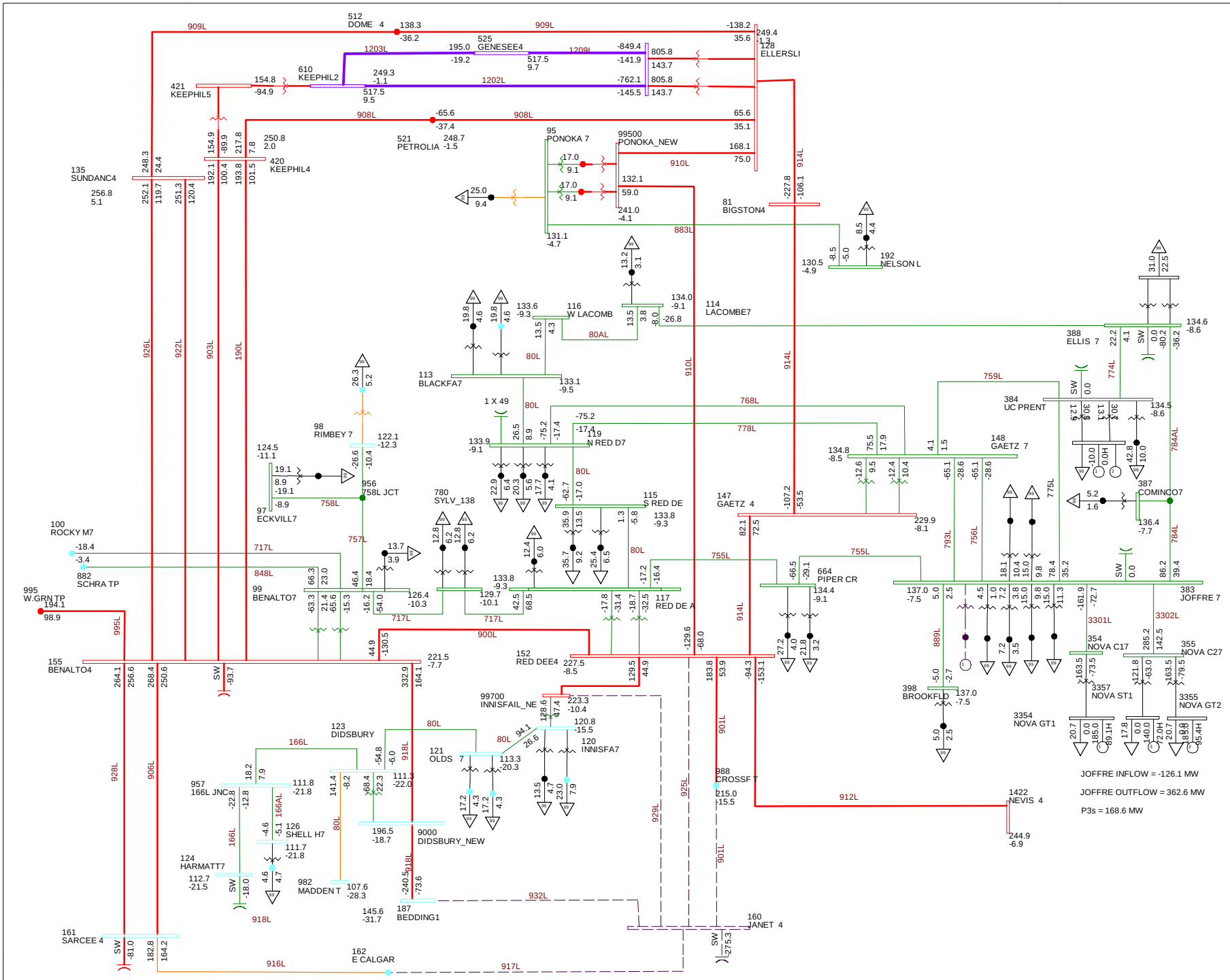
RED DEER REGION STUDY

2012 WINTER PEAK BASE CASE REVISION 6.5

FIG 2012-ALT2-LOAD-WP-D8-27: 240 KV LINES AND TRANSFORMER AT SUBSTATION NEVIS 766S OUTAGE
WED, MAR 02 2011 10:33

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR

D-2012-637



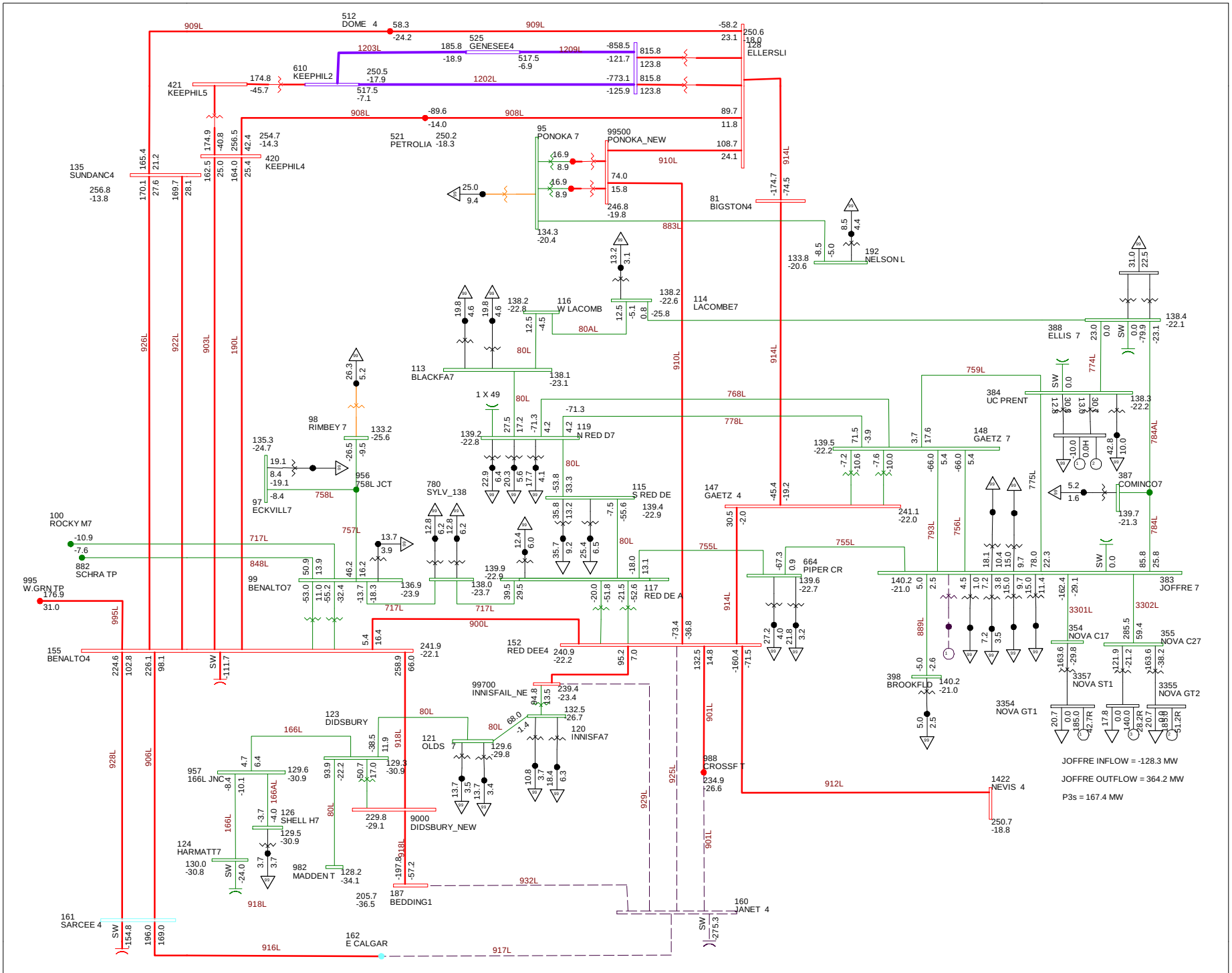
RED DEER REGION STUDY

2012 WINTER PEAK BASE CASE REVISION 6.5

FIG 2012-ALT2-LOAD-WP-D8-28: 240 KV LINES AND TRANSFORMER AT SUBSTATION JANET 74S OUTAGE
WED, MAR 02 2011 10:33

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-638



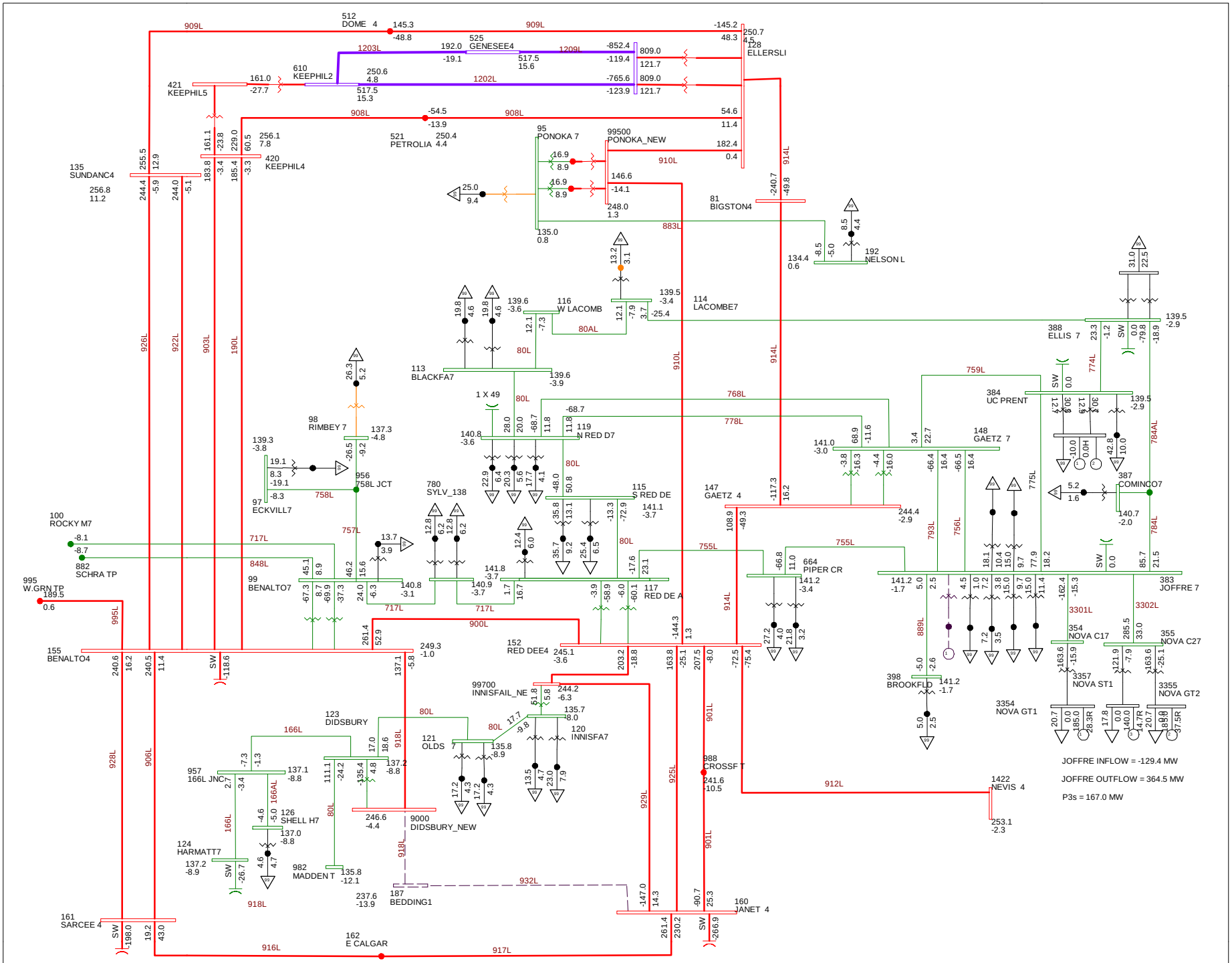
RED DEER REGION STUDY

2012 WINTER PEAK BASE CASE REVISION 6.5

FIG 2012-ALT2-LOAD-WP-D8-28-1: 240 KV LINES AND TRANSFORMER
SUBSTATION JANET 74S OUTAGE WITH RAS
WED, MAR 02 2011 10:33

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-639



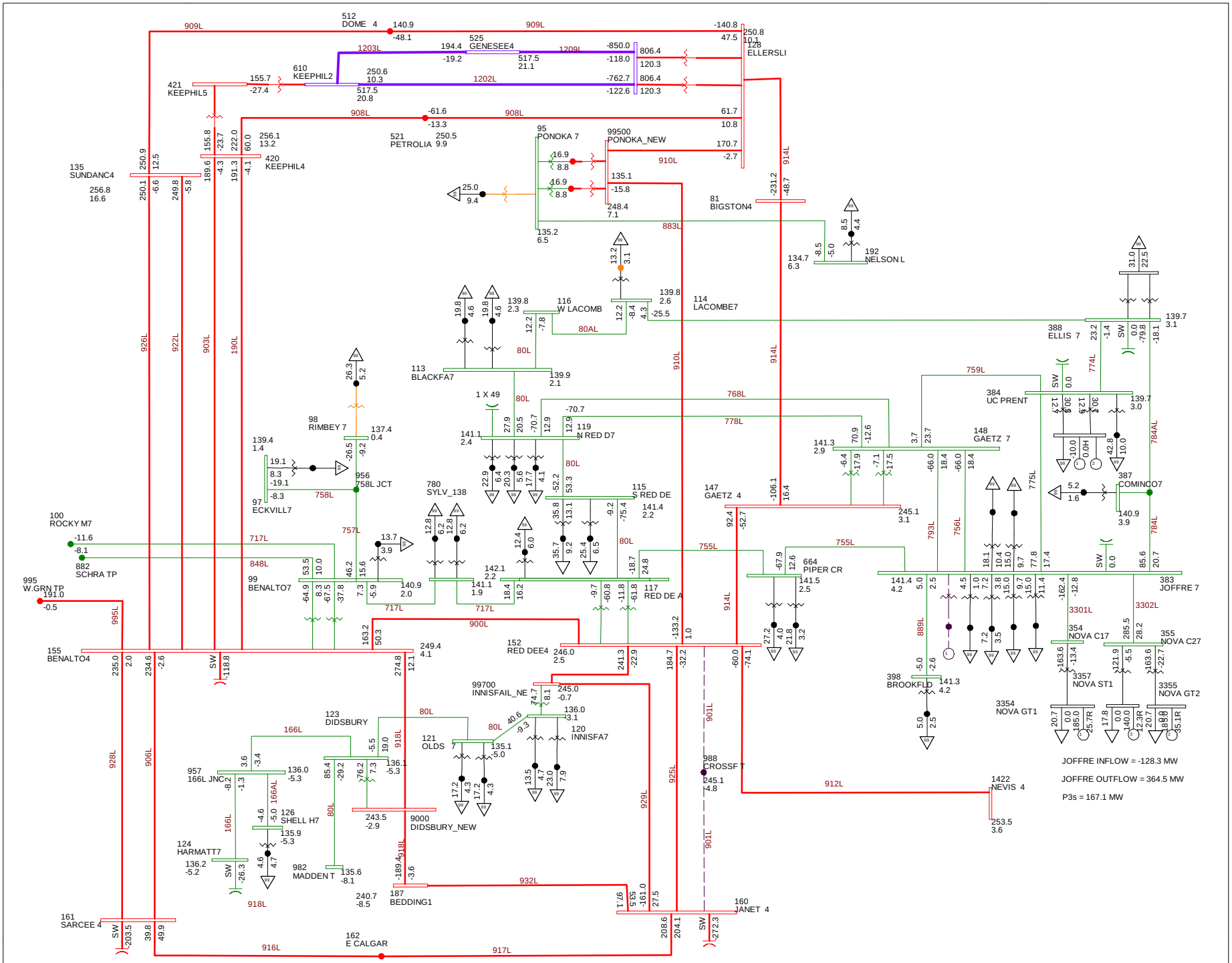
RED DEER REGION STUDY

2012 WINTER PEAK BASE CASE REVISION 6.5

FIG 2012-ALT2-LOAD-WP-D8-29: 240 KV LINES AND TRANSFORMER AT SUBSTATION BEDDINGTON 162S OUTAGE
WED, MAR 02 2011 10:33

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-640



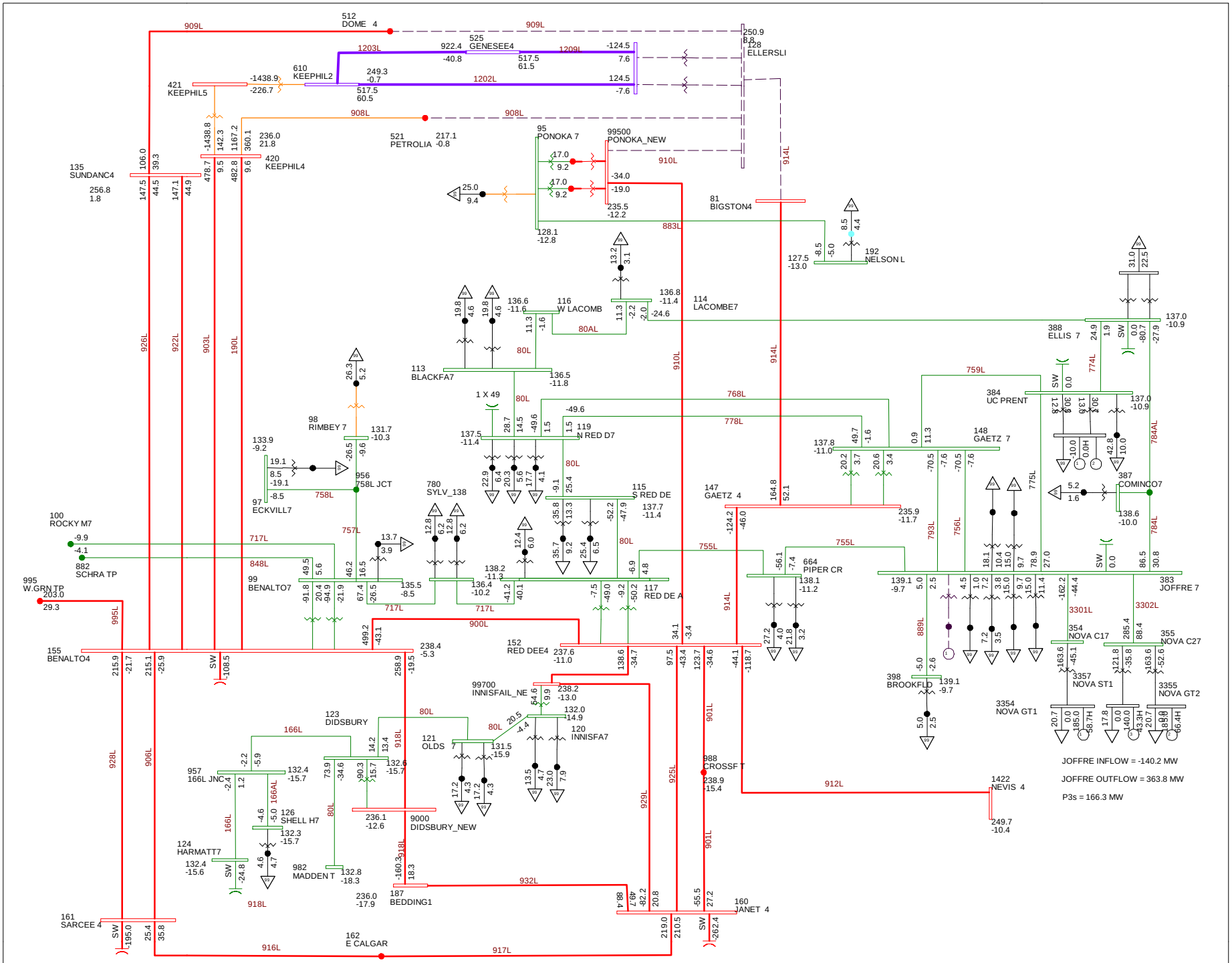
RED DEER REGION STUDY

2012 WINTER PEAK BASE CASE REVISION 6.5

FIG 2012-ALT2-LOAD-WP-D8-30: 240 KV LINES AND TRANSFORMER AT SUBSTATION CROSSFIELD 64S OUTAGE
WED, MAR 02 2011 10:33

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-641



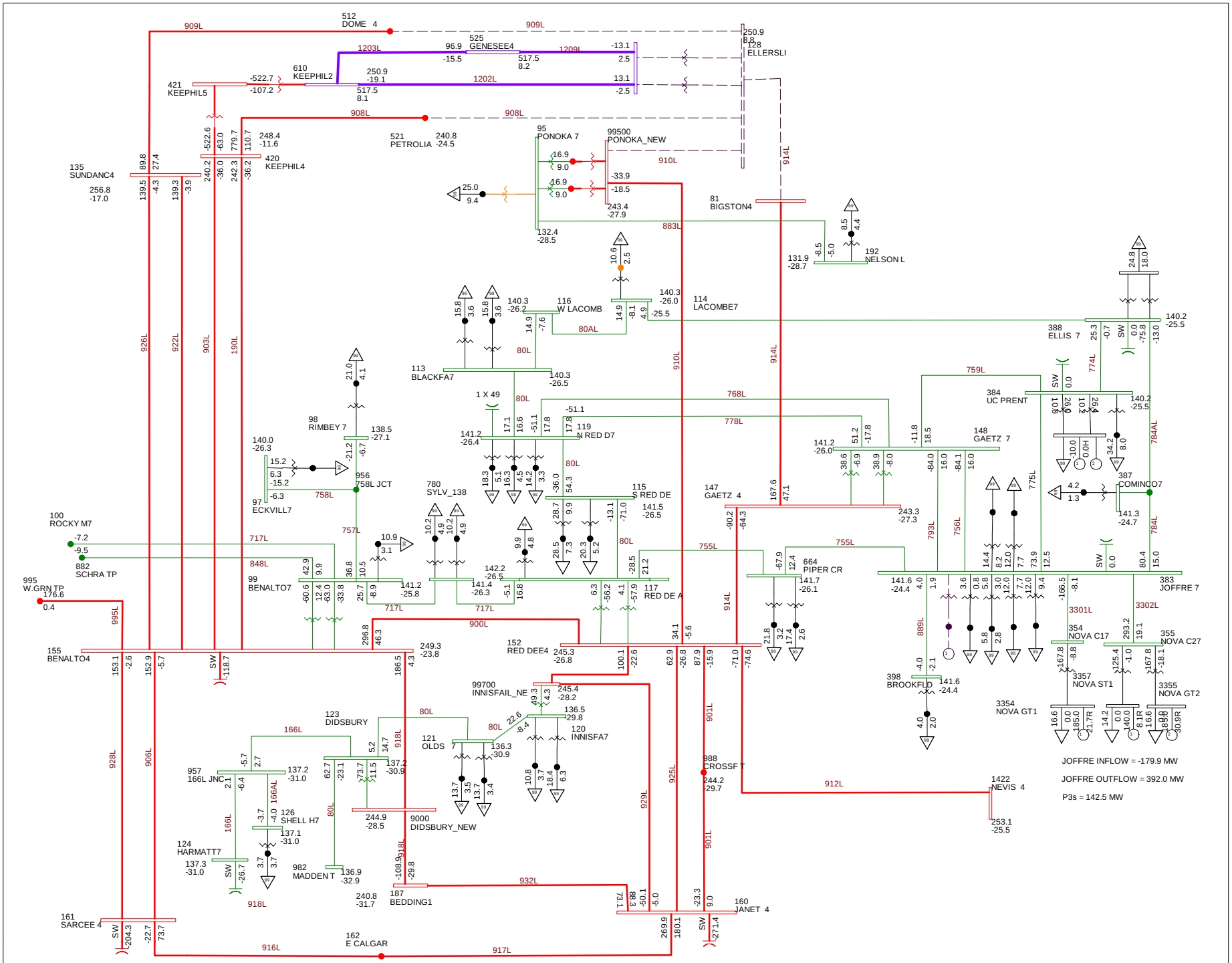
RED DEER REGION STUDY

2012 WINTER PEAK BASE CASE REVISION 6.5

FIG 2012-ALT2-LOAD-WP-D8-31: 240 KV LINES AND TRANSFORMER AT SUBSTATION ELLERSLIE 89S OUTAGE
WED, MAR 02 2011 10:33

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-642



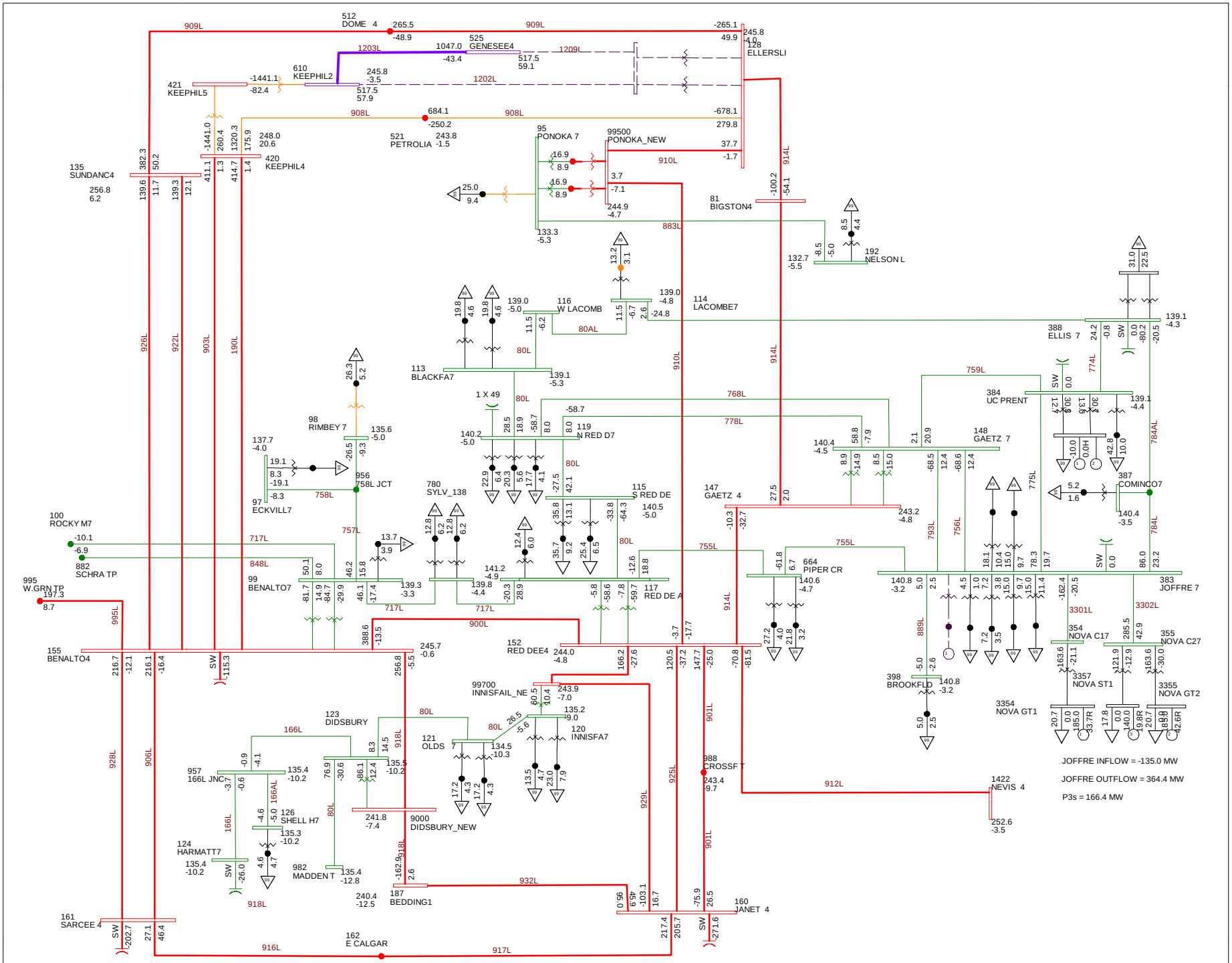
RED DEER REGION STUDY

2012 WINTER PEAK BASE CASE REVISION 6.5

FIG 2012-ALT2-LOAD-WP-D8-31-1: 240 KV LINES AND TRANSFORMER SUBSTATION ELLERSLIE 89S OUTAGE WITH RAS
WED, MAR 02 2011 10:33

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-643



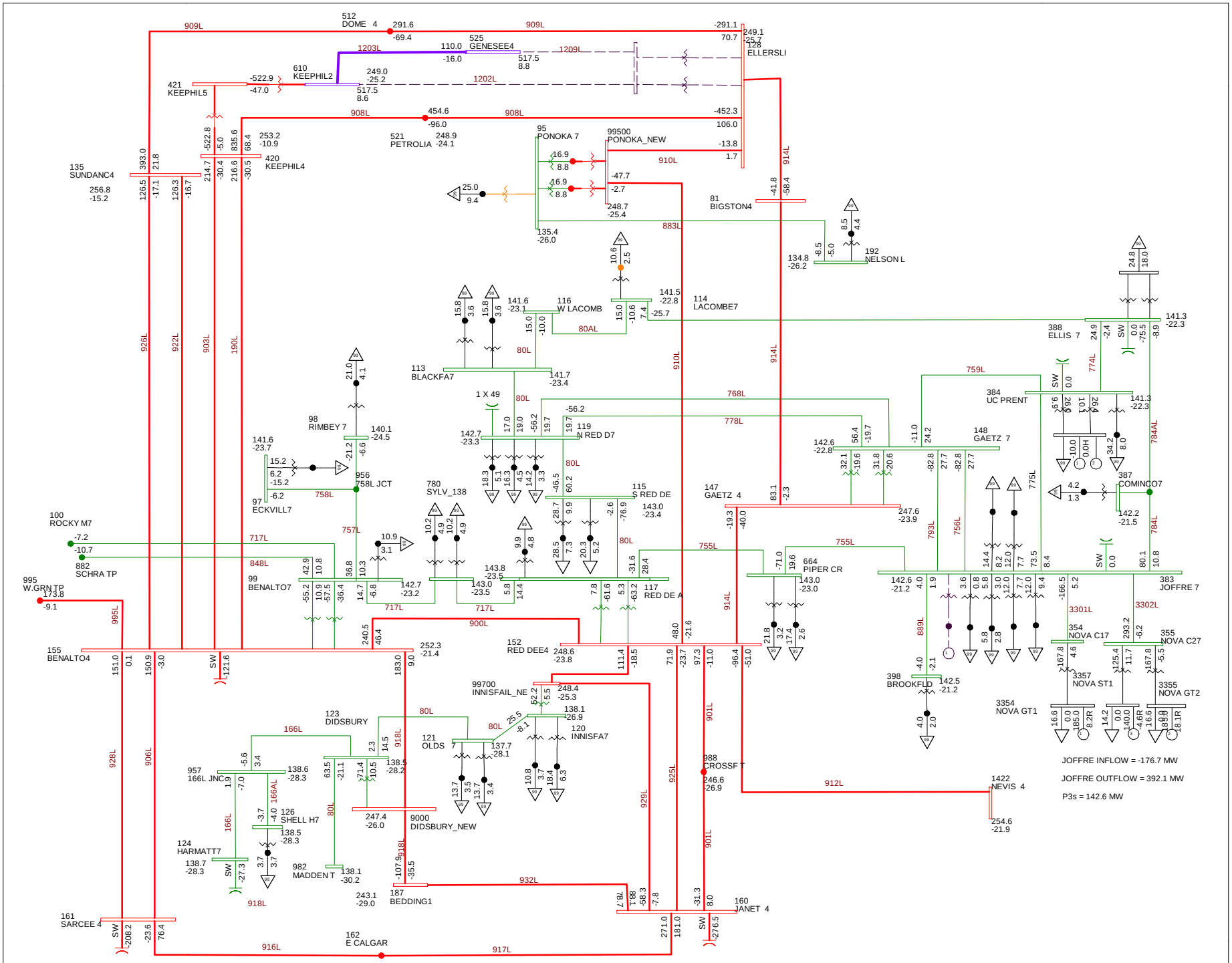
RED DEER REGION STUDY

2012 WINTER PEAK BASE CASE REVISION 6.5

FIG 2012-ALT2-LOAD-WP-D8-32: 500 KV LINES AND TRANSFORMER AT SUBSTATION ELLERSLIE 89S OUTAGE
WED, MAR 02 2011 10:34

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-644



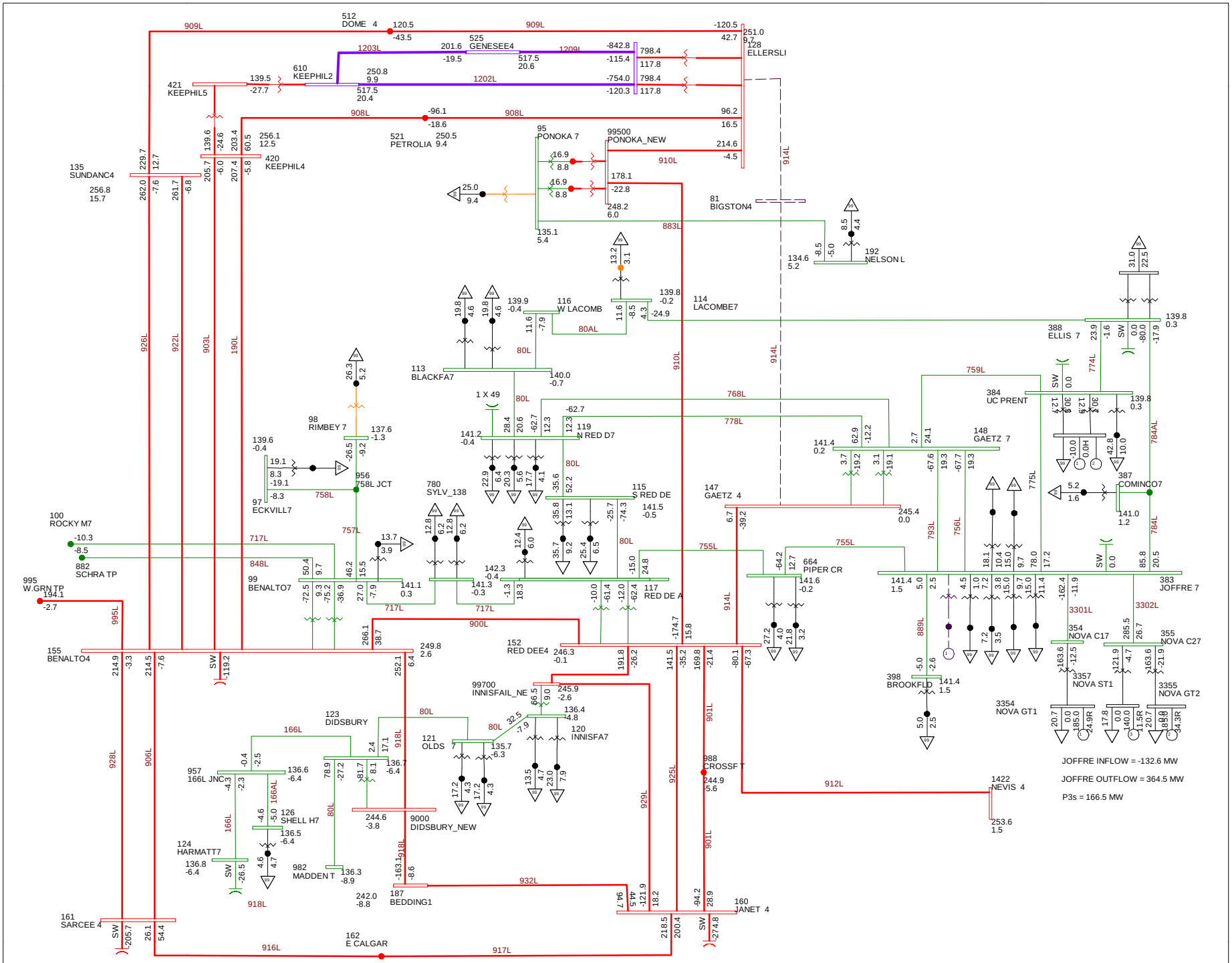
RED DEER REGION STUDY

2012 WINTER PEAK BASE CASE REVISION 6.5

FIG 2012-ALT2-LOAD-WP-D8-32-1: 500 KV LINES AND TRANSFORMER SUBSTATION ELLERSLIE 89S OUTAGE WITH RAS
WED, MAR 02 2011 10:34

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-645



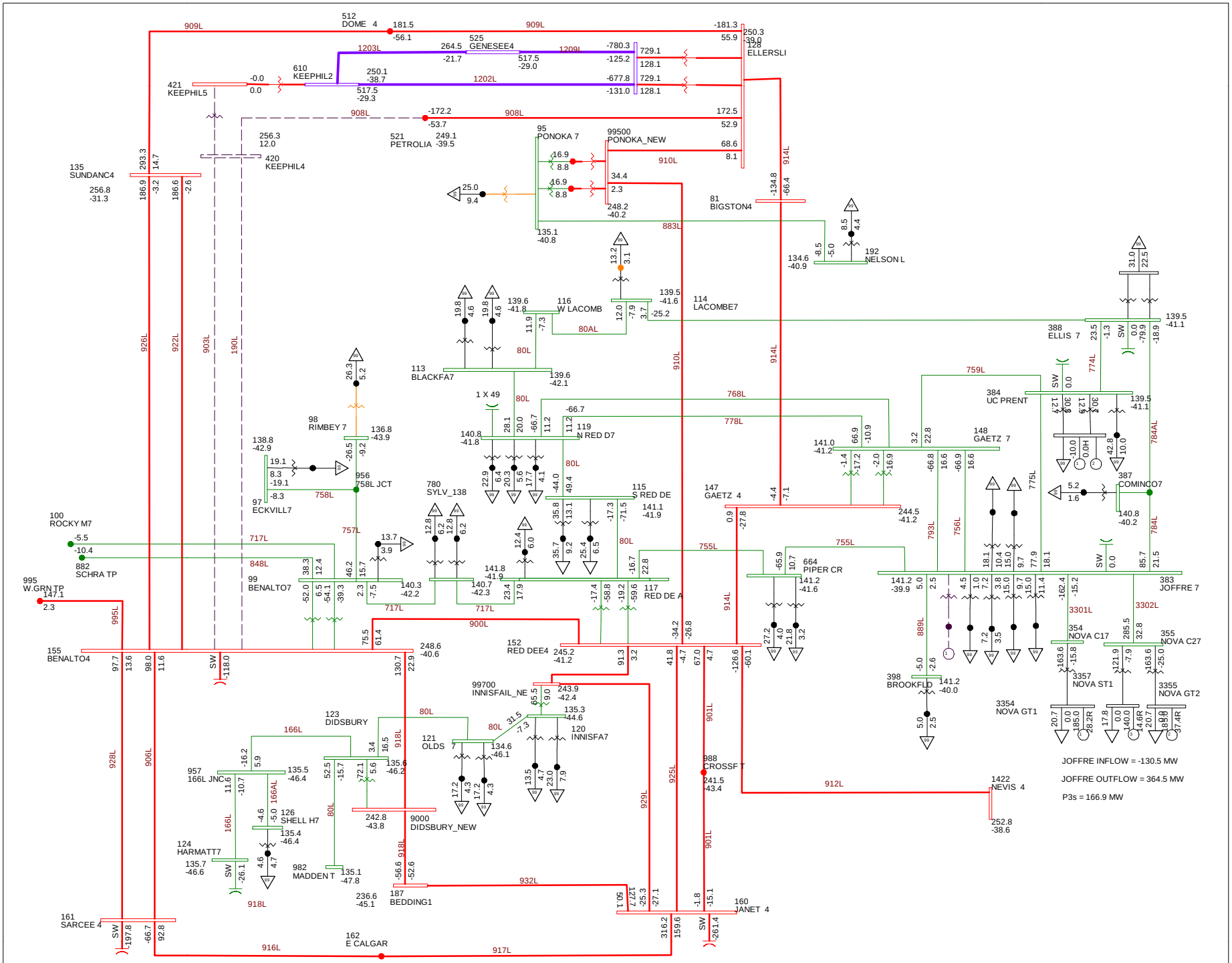
RED DEER REGION STUDY

2012 WINTER PEAK BASE CASE REVISION 6.5

FIG 2012-ALT2-LOAD-WP-D8-33: 240 KV LINES AND TRANSFORMER AT SUBSTATION BIGSTONE 86S OUTAGE
WED, MAR 02 2011 10:34

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-646



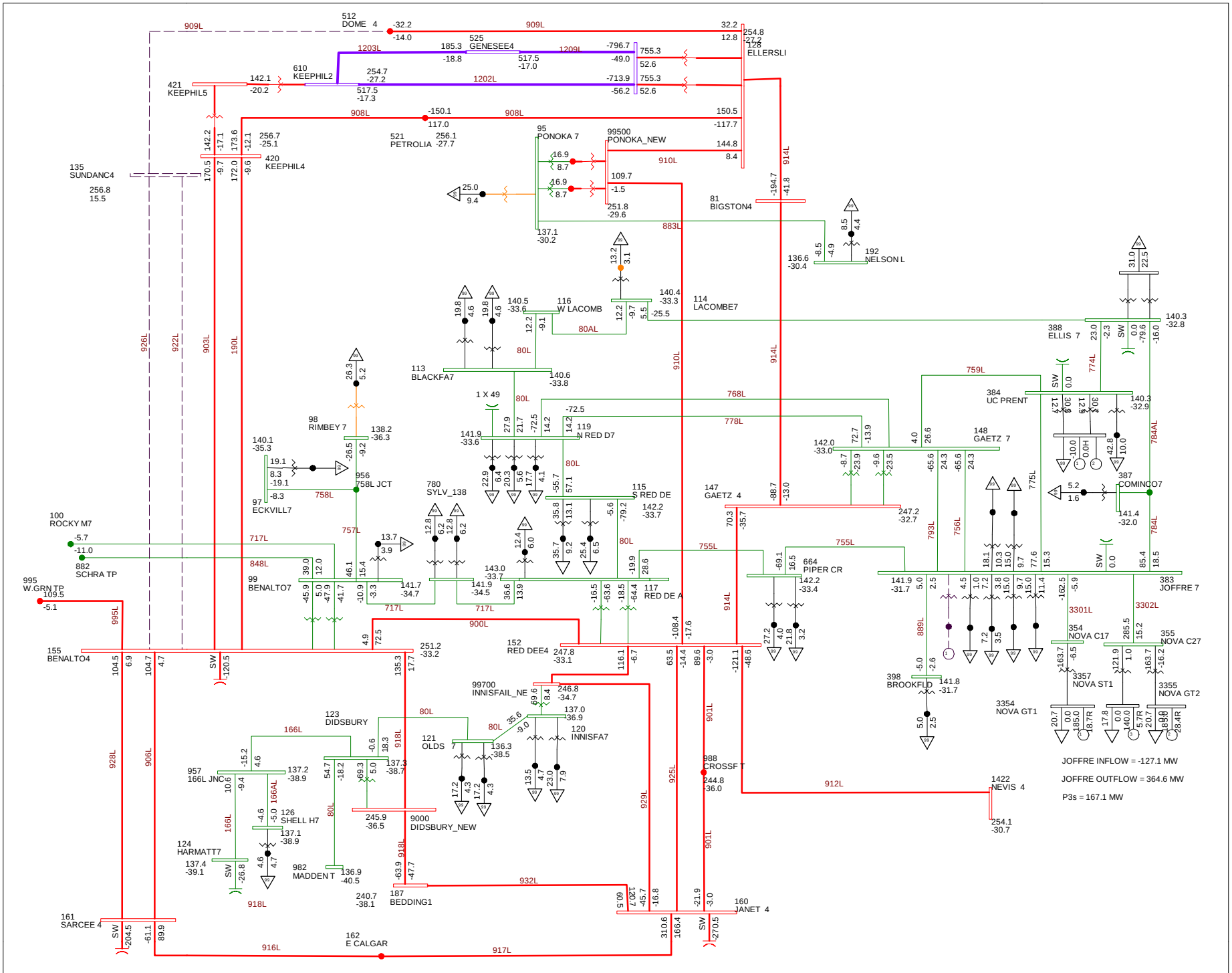
RED DEER REGION STUDY

2012 WINTER PEAK BASE CASE REVISION 6.5

FIG 2012-ALT2-LOAD-WP-D8-34: 240 KV LINES AND TRANSFORMER AT SUBSTATION KEEPHILLS 568S OUTAGE
WED, MAR 02 2011 10:34

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-647



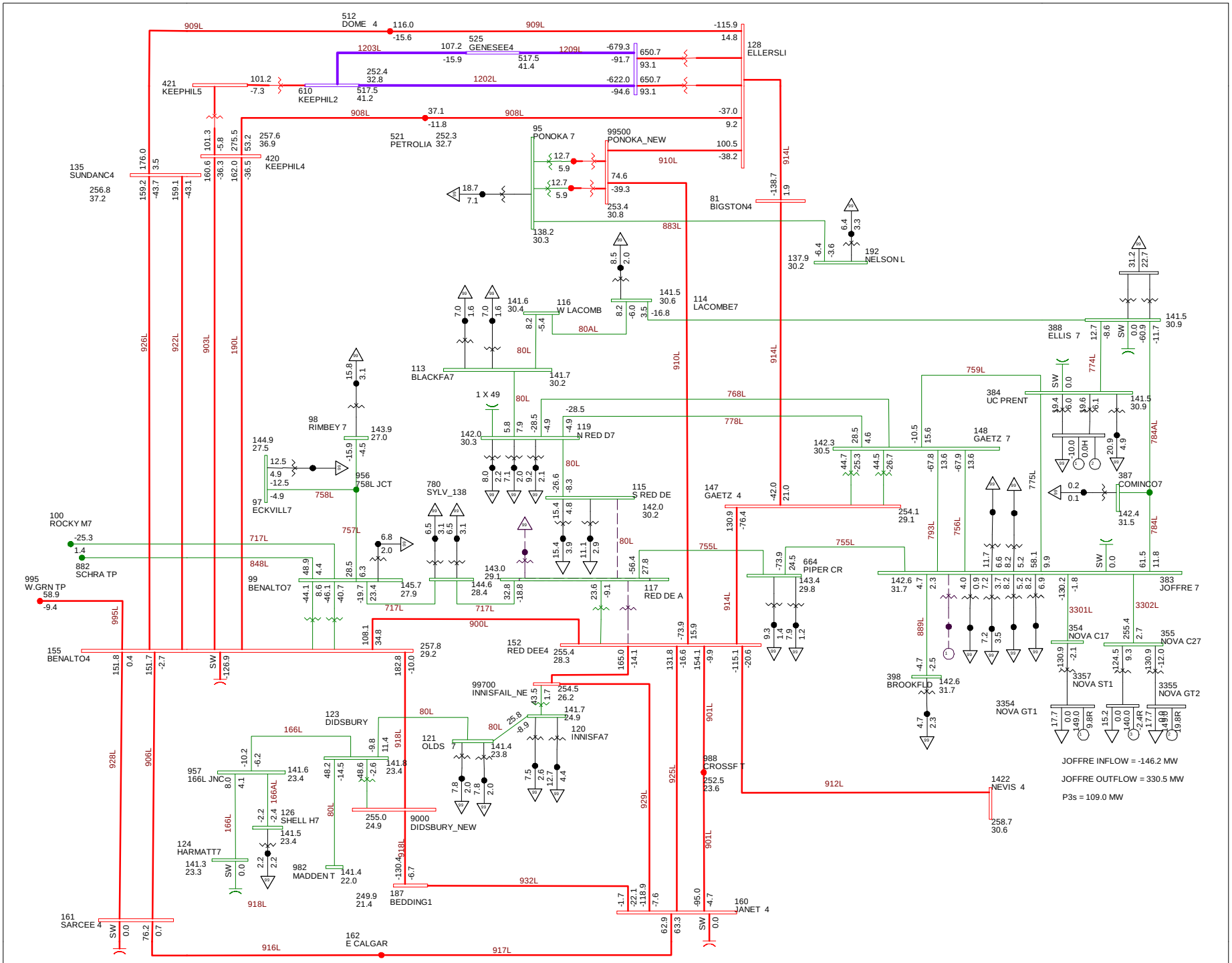
RED DEER REGION STUDY

2012 WINTER PEAK BASE CASE REVISION 6.5

FIG 2012-ALT2-LOAD-WP-D8-35: 240 KV LINES AND TRANSFORMER AT SUBSTATION SUNDANCE 821S OUTAGE WITH RAS
WED, MAR 02 2011 10:34

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-648



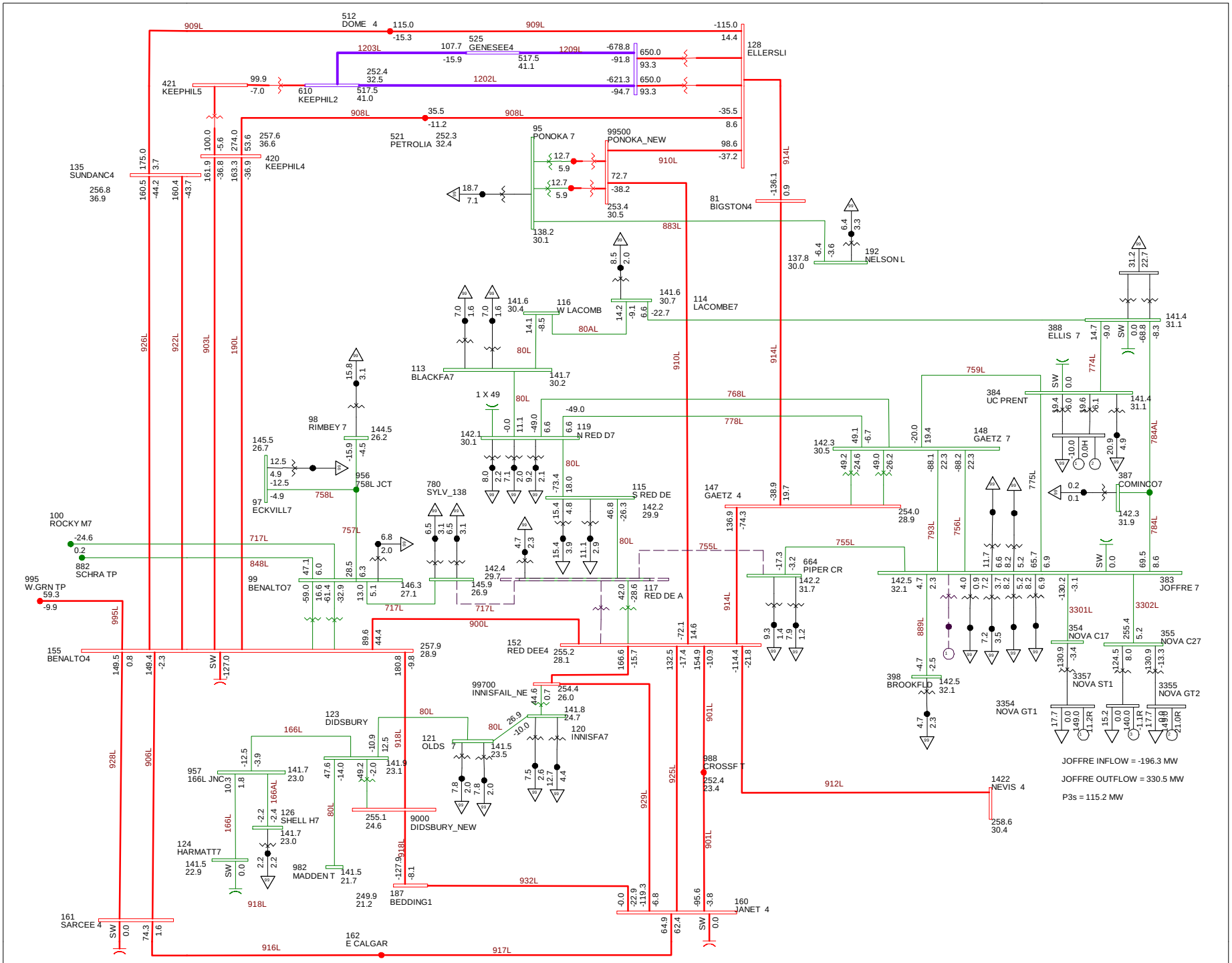
RED DEER REGION STUDY

2012 SUMMER LIGHT BASE CASE REVISION 6.5

FIG 2012-ALT2-LOAD-SL-D8-1: 138 KV LINES AND TRANSFORMER AT SUBSTATION RED DEER 63S-A OUTAGE
WED, MAR 02 2011 10:26

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-649



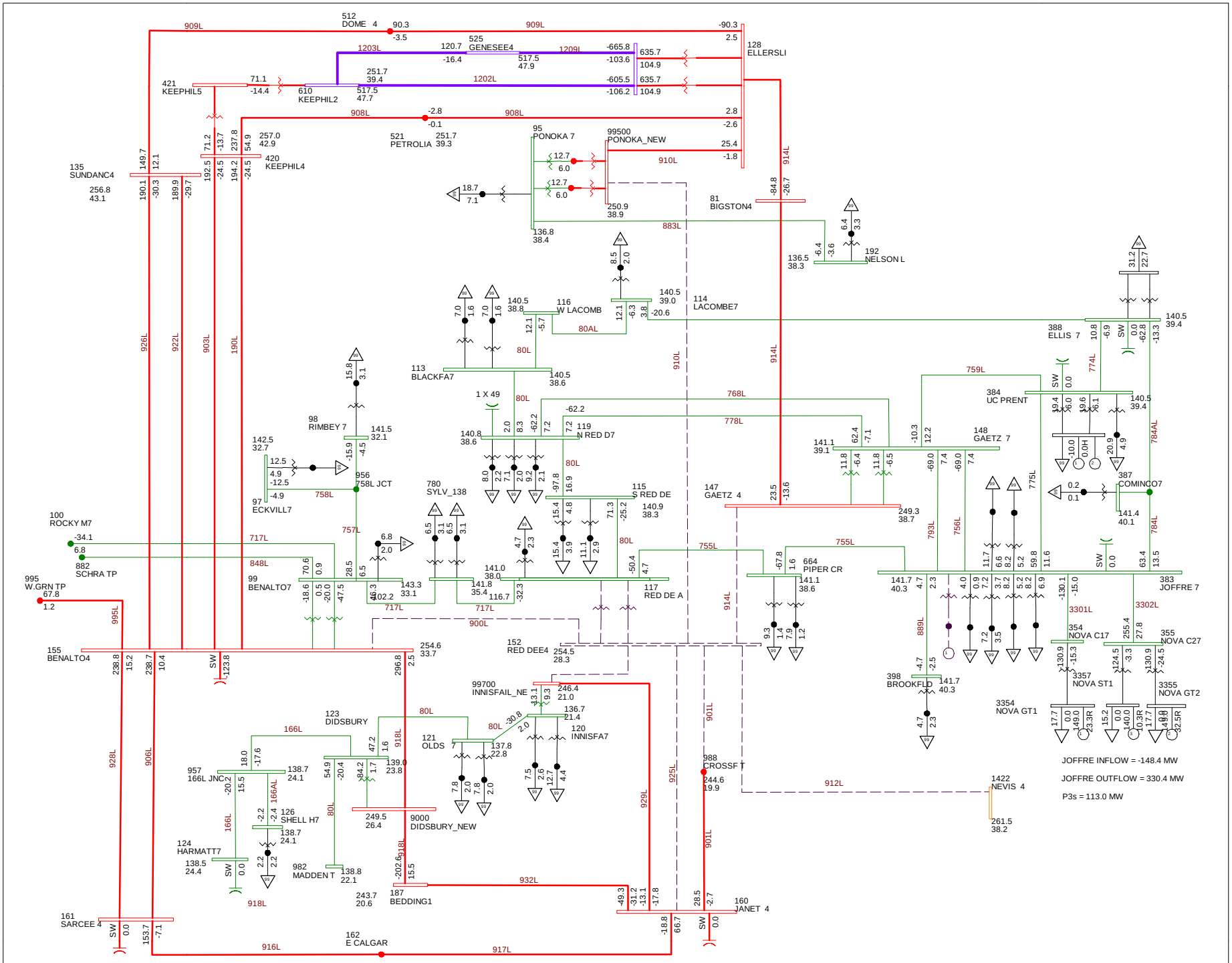
RED DEER REGION STUDY

2012 SUMMER LIGHT BASE CASE REVISION 6.5

FIG 2012-ALT2-LOAD-SL-D8-2: 138 KV LINES AND TRANSFORMER AT SUBSTATION RED DEER 63S-B OUTAGE
WED, MAR 02 2011 10:26

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-650



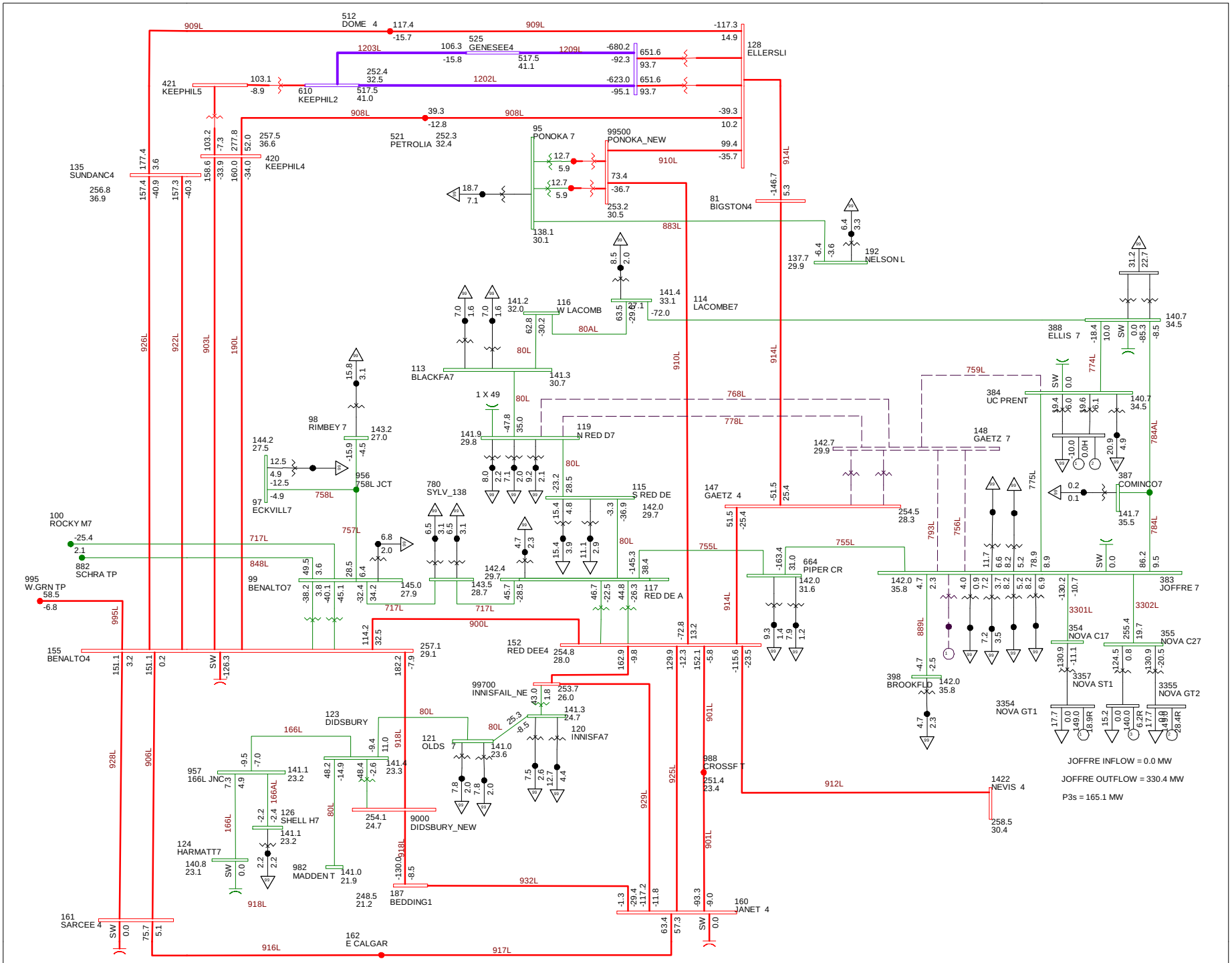
RED DEER REGION STUDY

2012 SUMMER LIGHT BASE CASE REVISION 6.5

FIG 2012-ALT2-LOAD-SL-D8-3: 240 KV LINES AND TRANSFORMER AT SUBSTATION RED DEER 63S OUTAGE
WED, MAR 02 2011 10:26

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-651



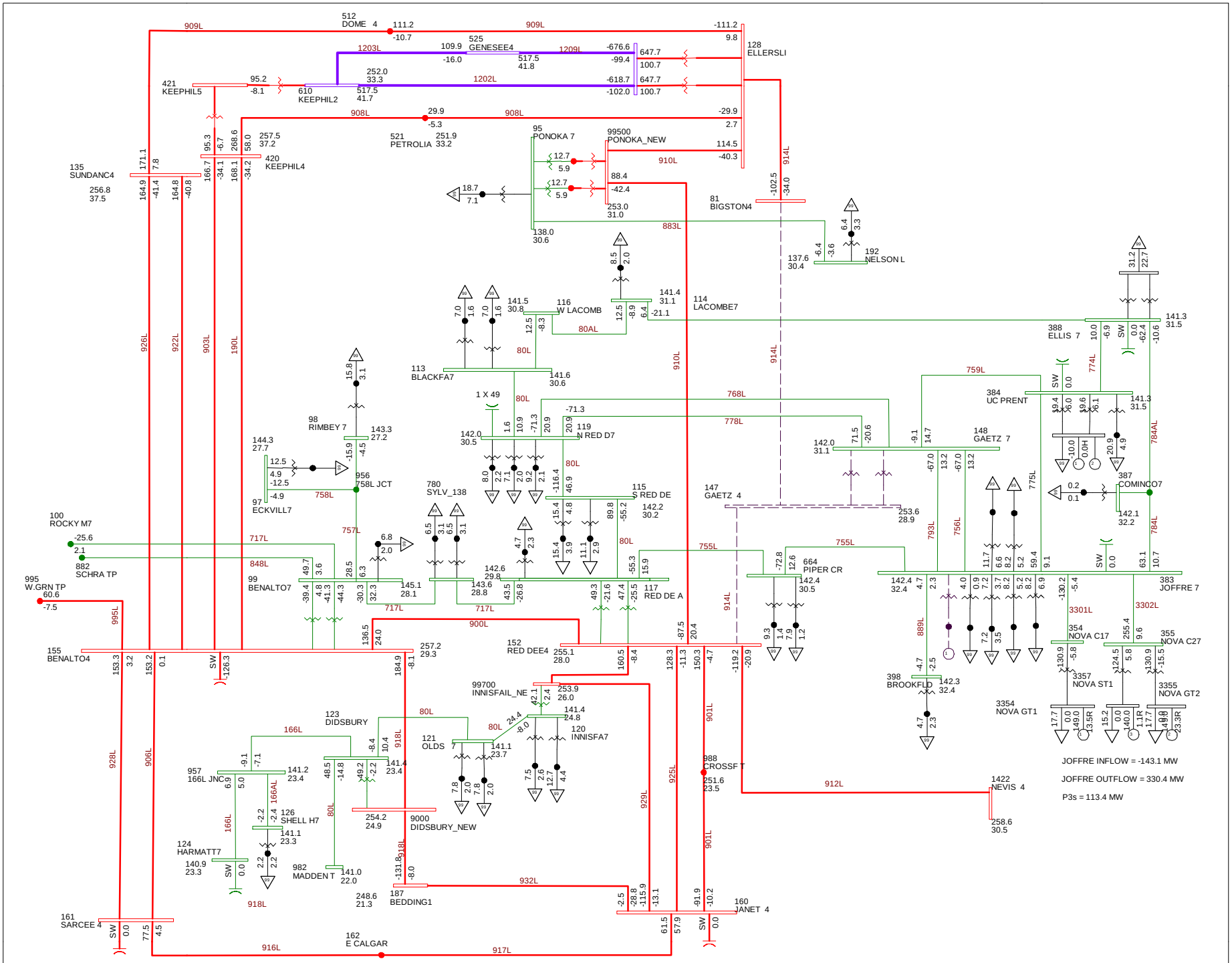
RED DEER REGION STUDY

2012 SUMMER LIGHT BASE CASE REVISION 6.5

FIG 2012-ALT2-LOAD-SL-D8-4: 138 KV LINES AND TRANSFORMER AT SUBSTATION GAETZ 87S OUTAGE
WED, MAR 02 2011 10:26

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-652



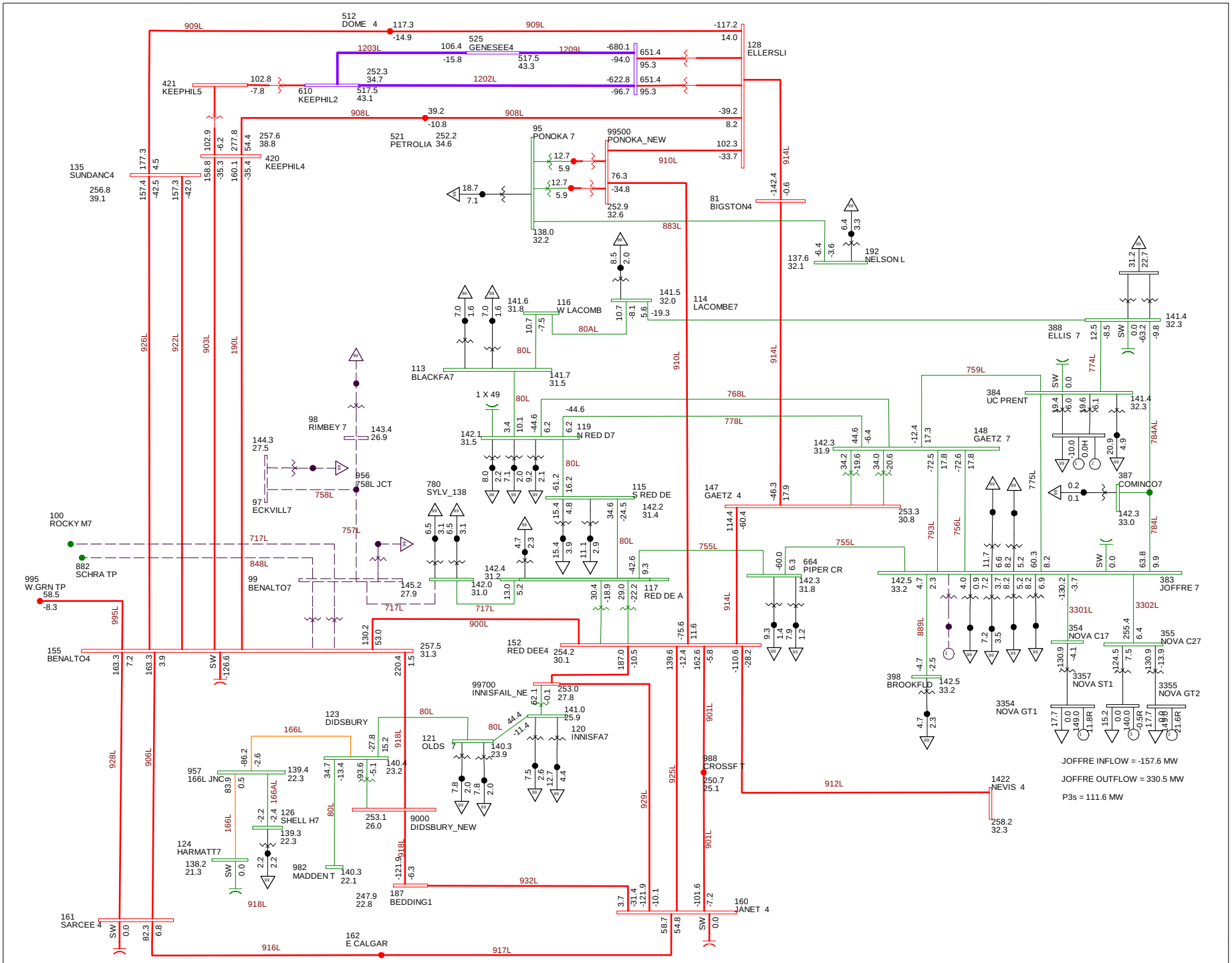
RED DEER REGION STUDY

2012 SUMMER LIGHT BASE CASE REVISION 6.5

FIG 2012-ALT2-LOAD-SL-D8-5: 240 KV LINES AND TRANSFORMER AT SUBSTATION GAETZ 87S OUTAGE
WED, MAR 02 2011 10:26

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-653



RED DEER REGION STUDY

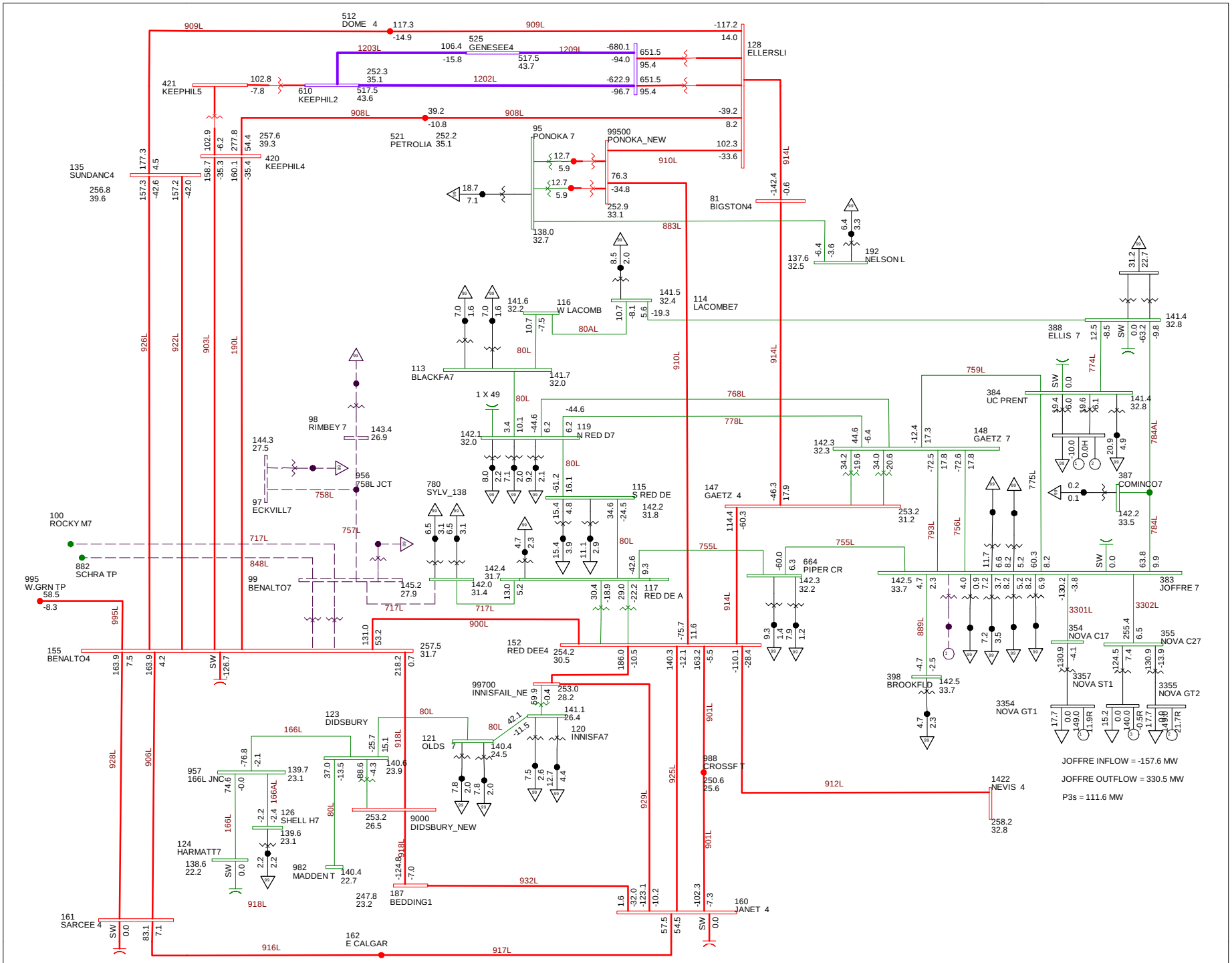
2012 SUMMER LIGHT BASE CASE REVISION 6.5

FIG 2012-ALT2-LOAD-SL-D8-6: 138 KV LINES AND TRANSFORMER AT SUBSTATION BENALTO 17S OUTAGE
WED, MAR 02 2011 10:26

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR

<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-654



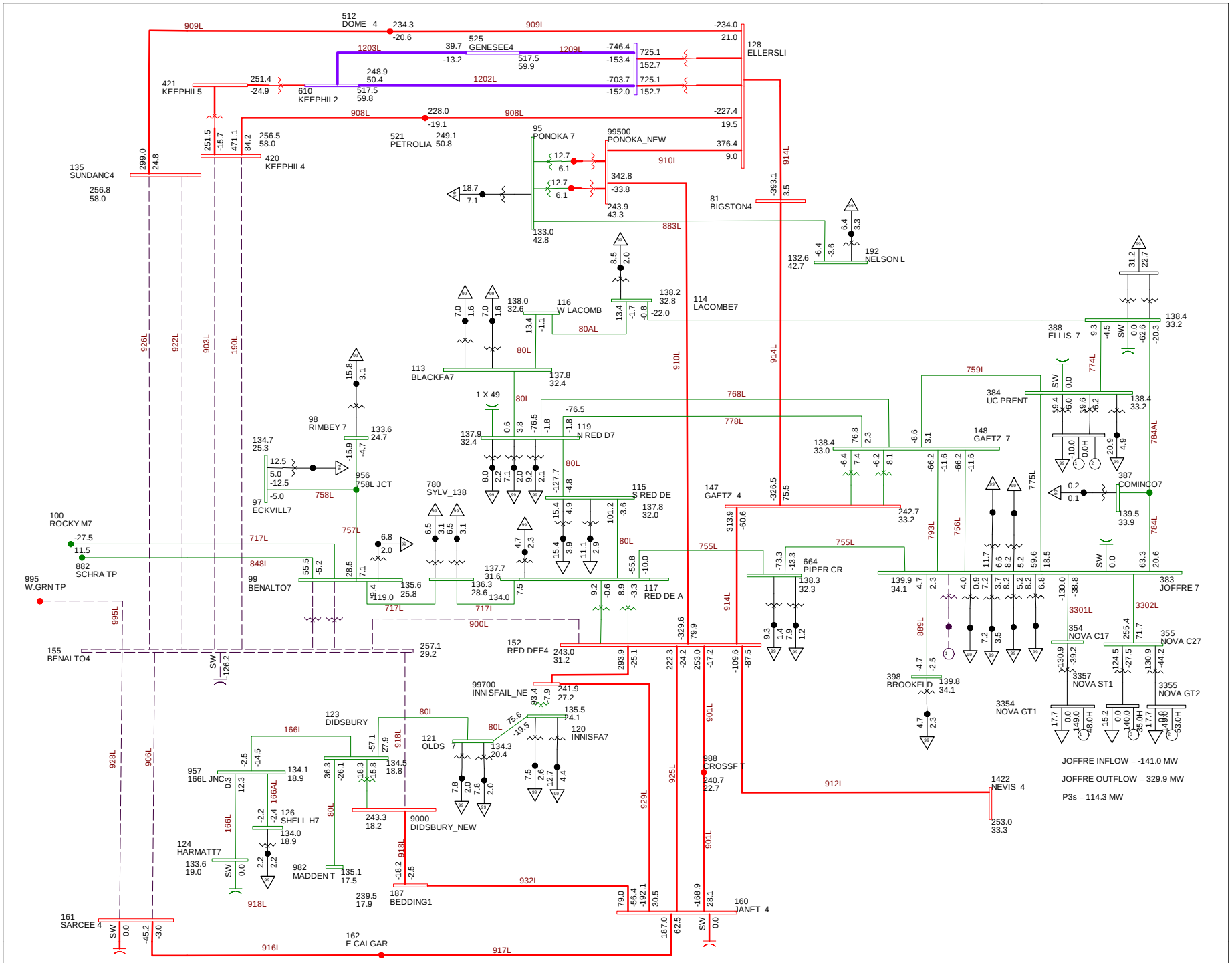
RED DEER REGION STUDY

2012 SUMMER LIGHT BASE CASE REVISION 6.5

FIG 2012-ALT2-LOAD-SL-D8-6-1: 138 KV LINES AND TRANSFORMER A SUBSTATION BENALTO 17S OUTAGE WITH RAS
WED, MAR 02 2011 10:26

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-655



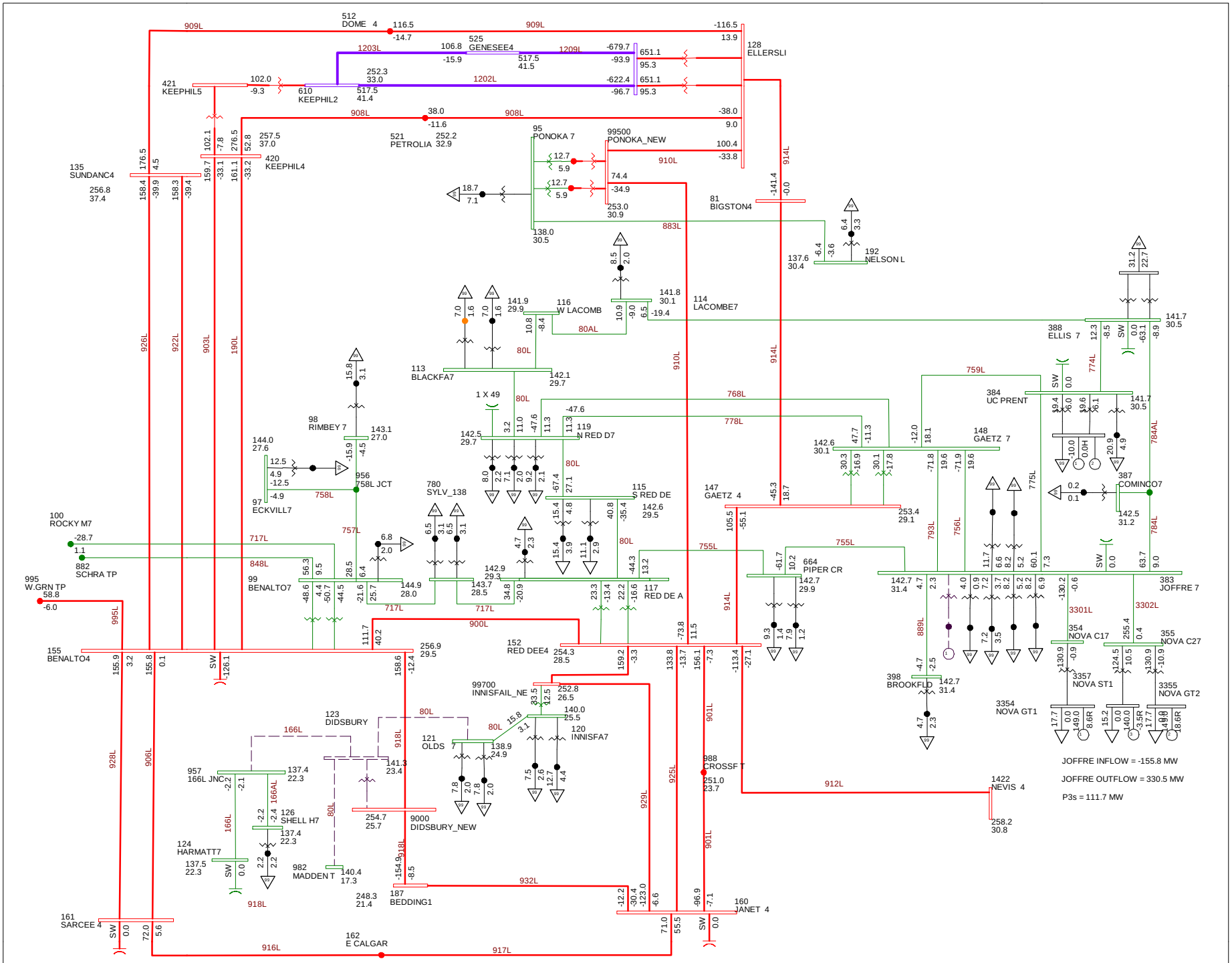
RED DEER REGION STUDY

2012 SUMMER LIGHT BASE CASE REVISION 6.5

FIG 2012-ALT2-LOAD-SL-D8-7: 240 KV LINES AND TRANSFORMER AT SUBSTATION BENALTO 17S OUTAGE
WED, MAR 02 2011 10:26

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-656



RED DEER REGION STUDY

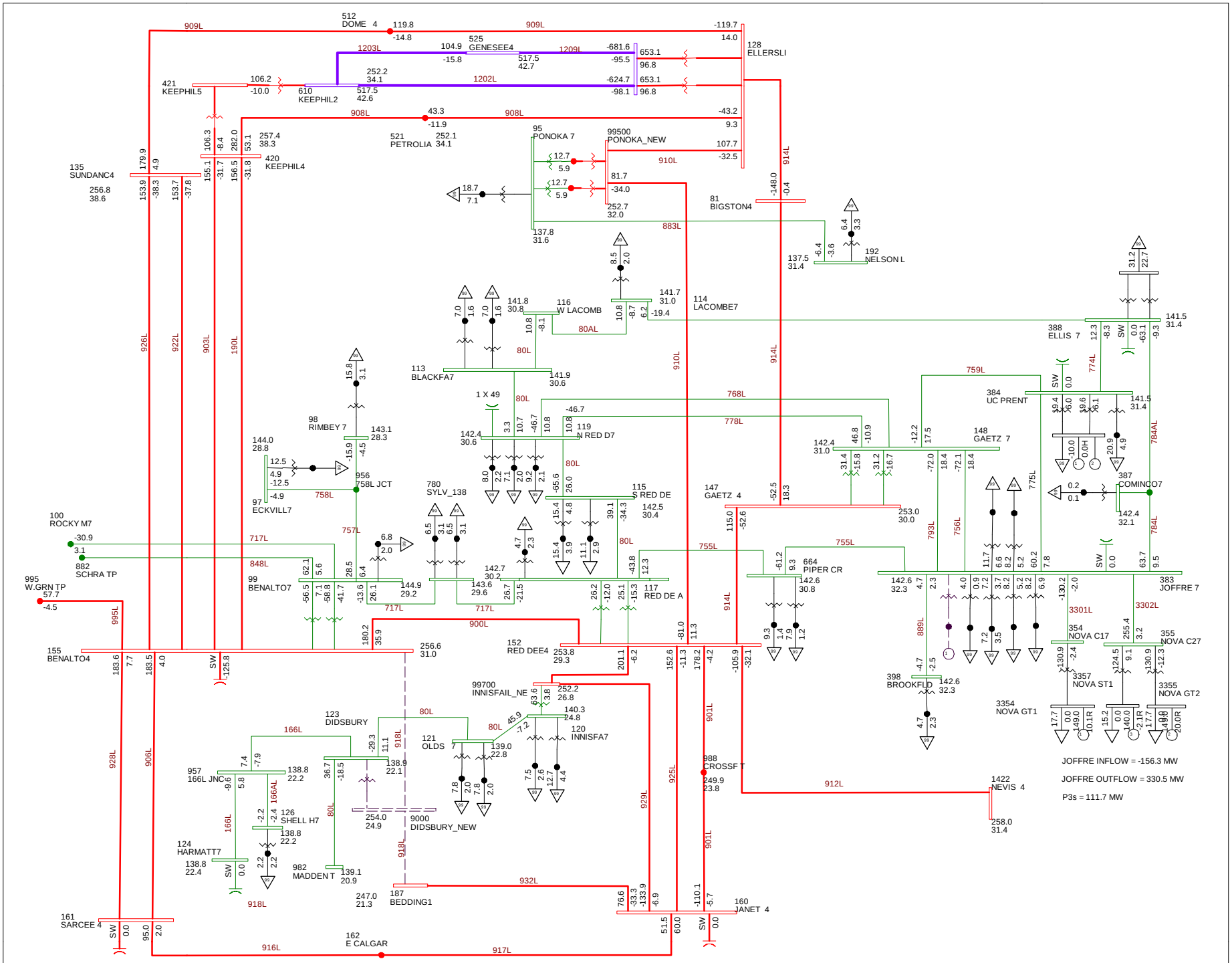
2012 SUMMER LIGHT BASE CASE REVISION 6.5

FIG 2012-ALT2-LOAD-SL-D8-8: 138 KV LINES AND TRANSFORMER AT SUBSTATION DIDSBURY (152S) OUTAGE
WED, MAR 02 2011 10:26

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR

<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-657



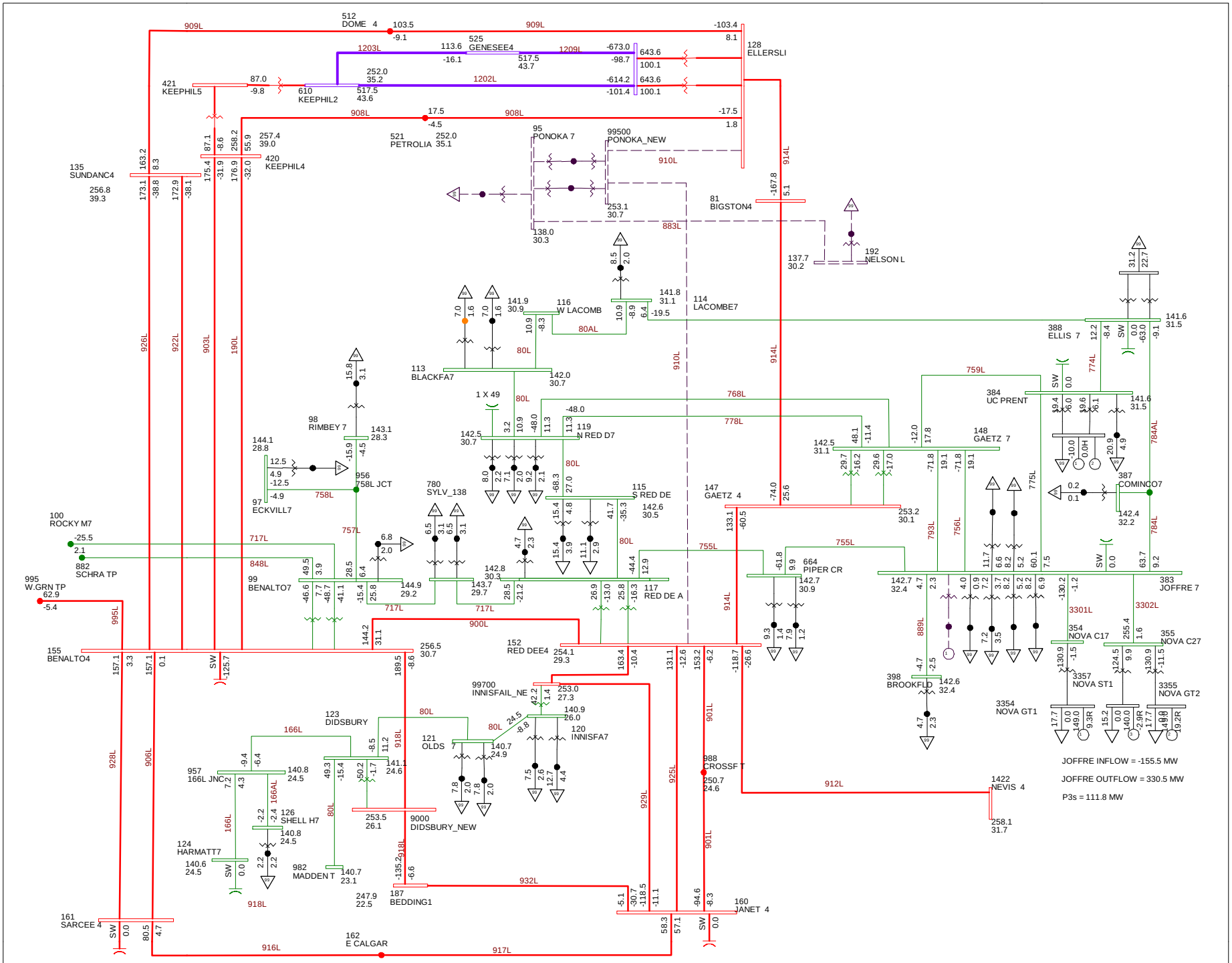
RED DEER REGION STUDY

2012 SUMMER LIGHT BASE CASE REVISION 6.5

FIG 2012-ALT2-LOAD-SL-D8-9: 240 KV LINES AND TRANSFORMER AT SUBSTATION DIDSBURY (152S) OUTAGE
WED, MAR 02 2011 10:26

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-658



RED DEER REGION STUDY

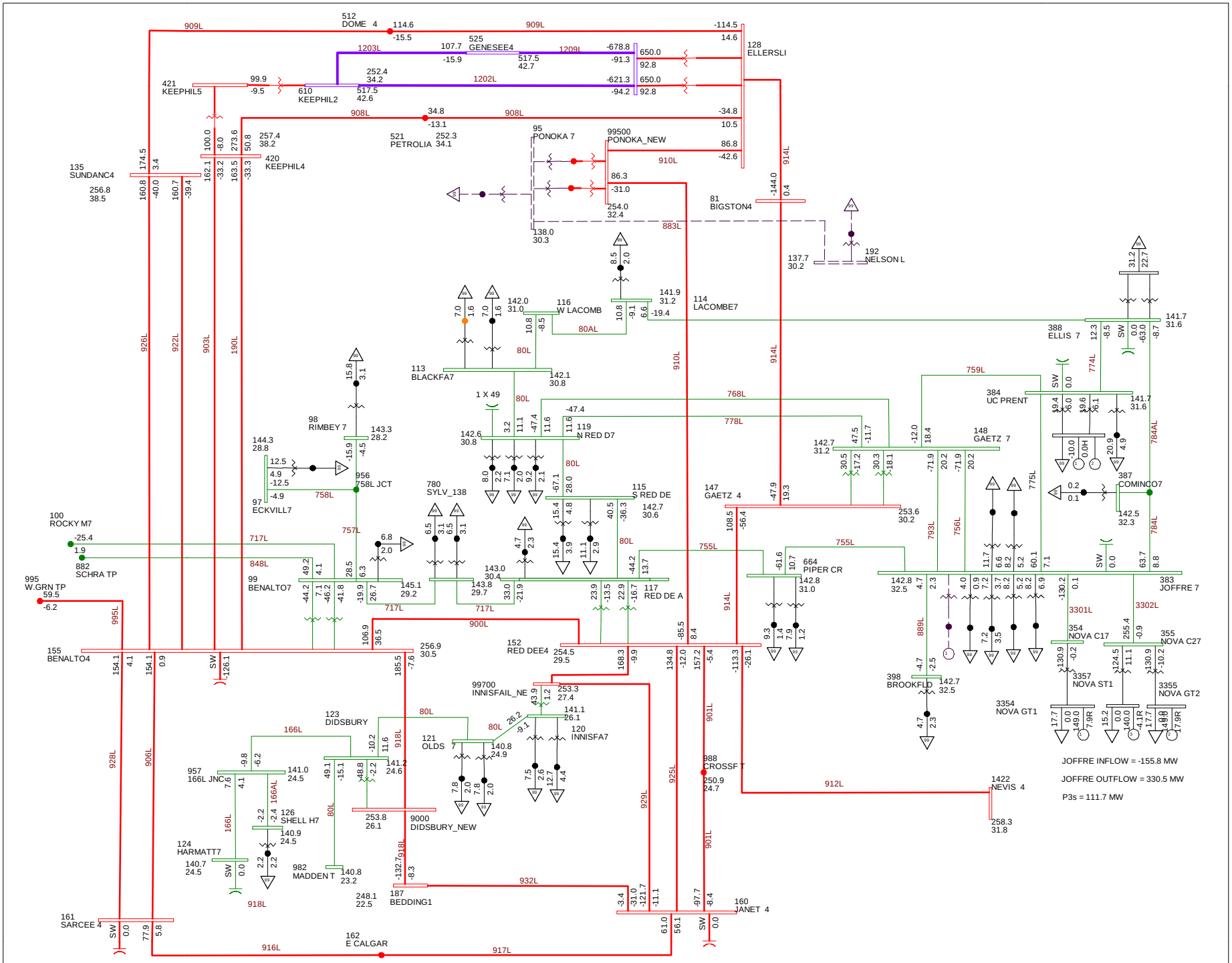
2012 SUMMER LIGHT BASE CASE REVISION 6.5

FIG 2012-ALT2-LOAD-SL-D8-10: 240 KV LINES AND TRANSFORMER AT SUBSTATION PONOKA 331S OUTAGE
WED, MAR 02 2011 10:26

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR

<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-659



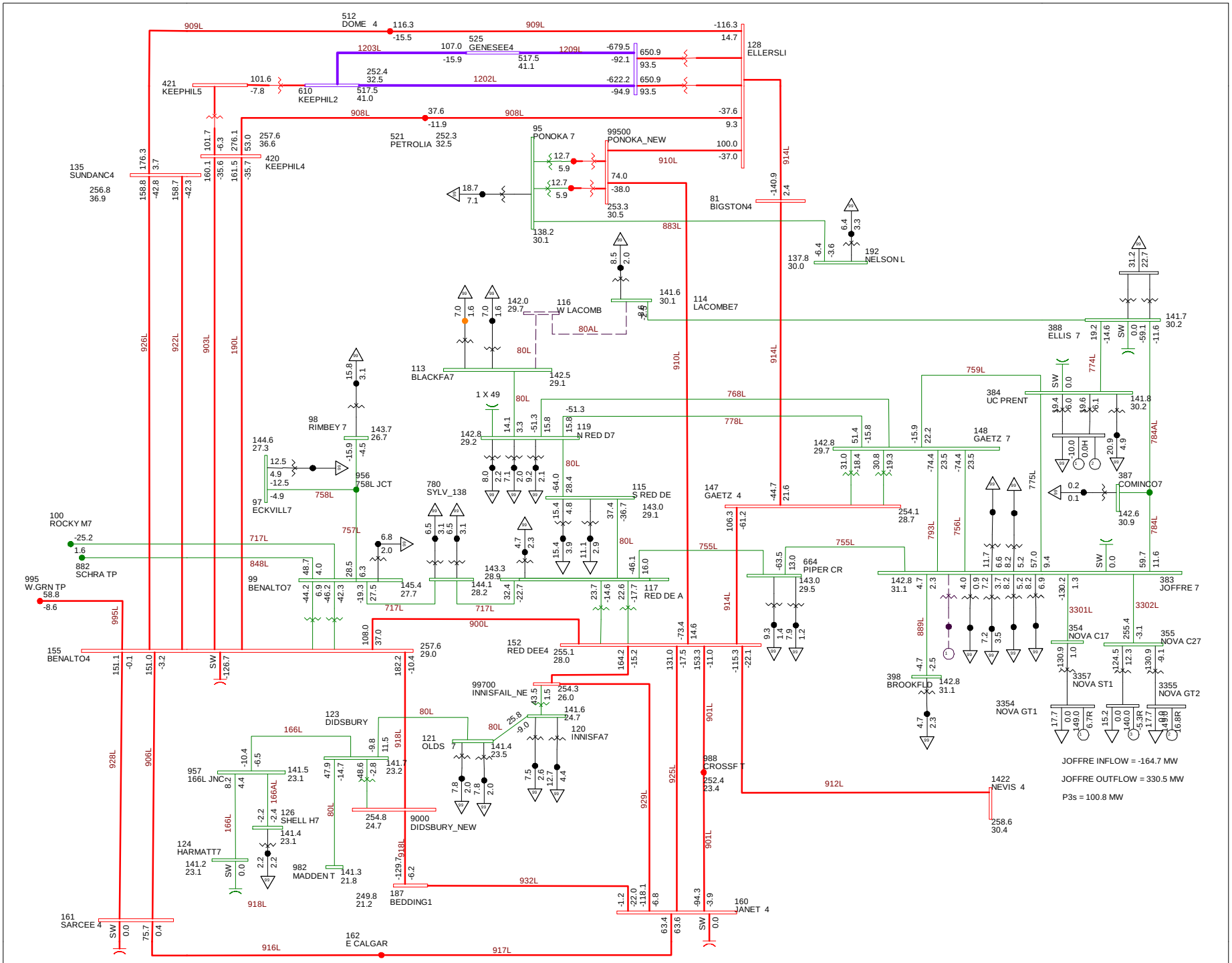
RED DEER REGION STUDY

2012 SUMMER LIGHT BASE CASE REVISION 6.5

FIG 2012-ALT2-LOAD-SL-D8-11: 138 KV LINES AND TRANSFORMER AT SUBSTATION PONOKA 331S OUTAGE
WED, MAR 02 2011 10:27

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-660



RED DEER REGION STUDY

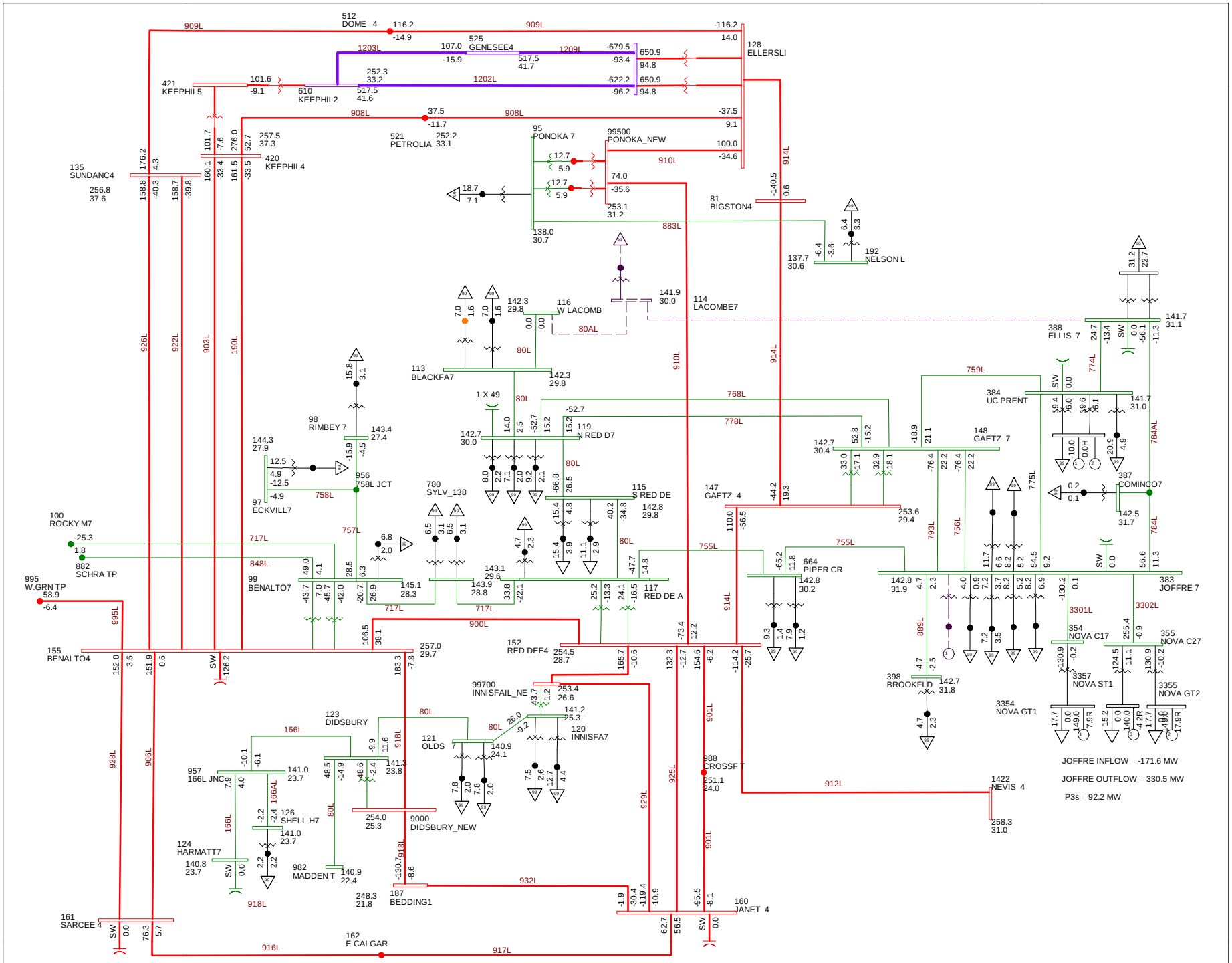
2012 SUMMER LIGHT BASE CASE REVISION 6.5

FIG 2012-ALT2-LOAD-SL-D8-12:
138 KV SUBSTATION W. LACOMBE 958S OUTAGE
WED, MAR 02 2011 10:27

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR

<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-661



RED DEER REGION STUDY

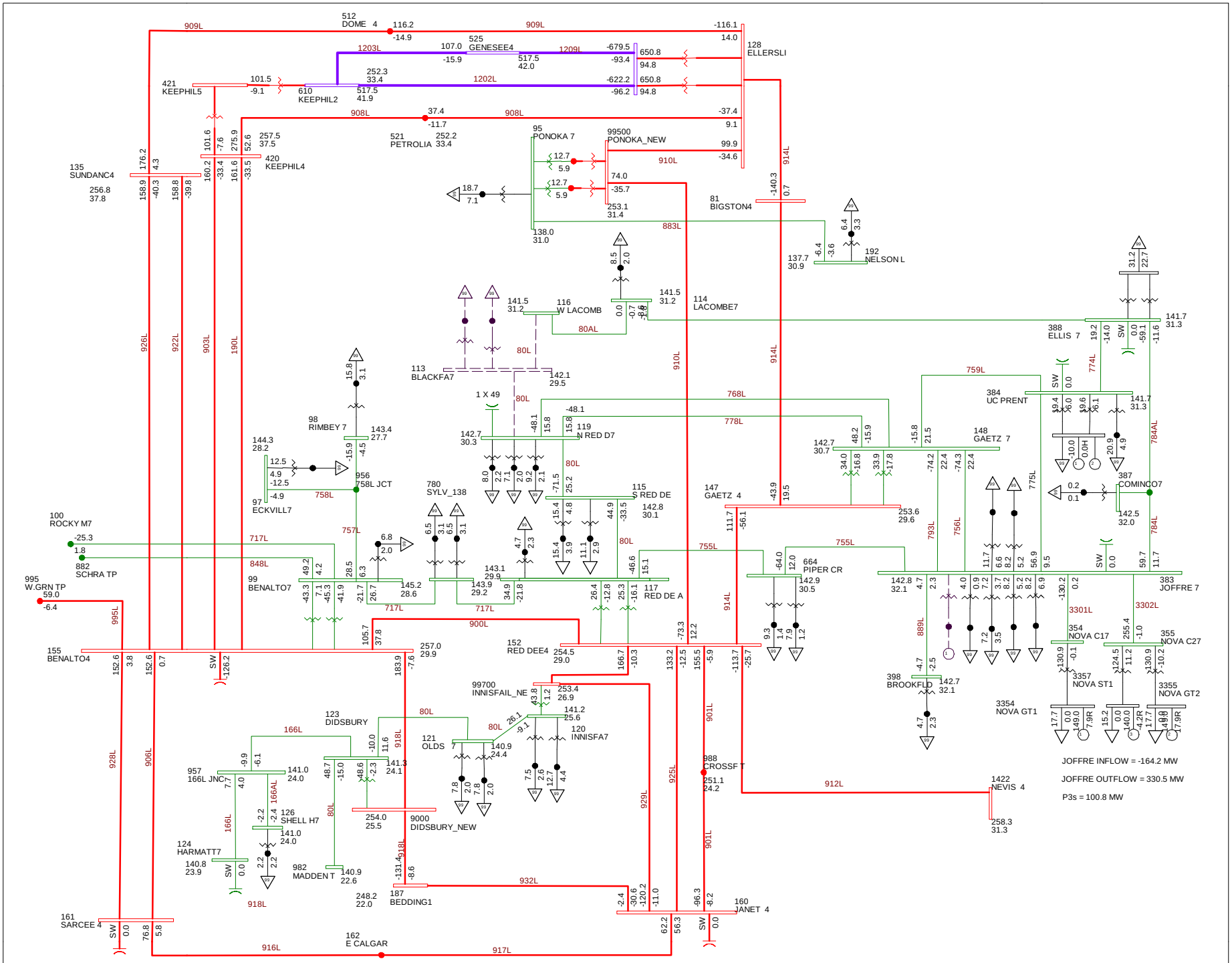
2012 SUMMER LIGHT BASE CASE REVISION 6.5

FIG 2012-ALT2-LOAD-SL-D8-13:
138 KV SUBSTATION N.E. LACOMBE 212S OUTAGE
WED, MAR 02 2011 10:27

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR

<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-662



RED DEER REGION STUDY

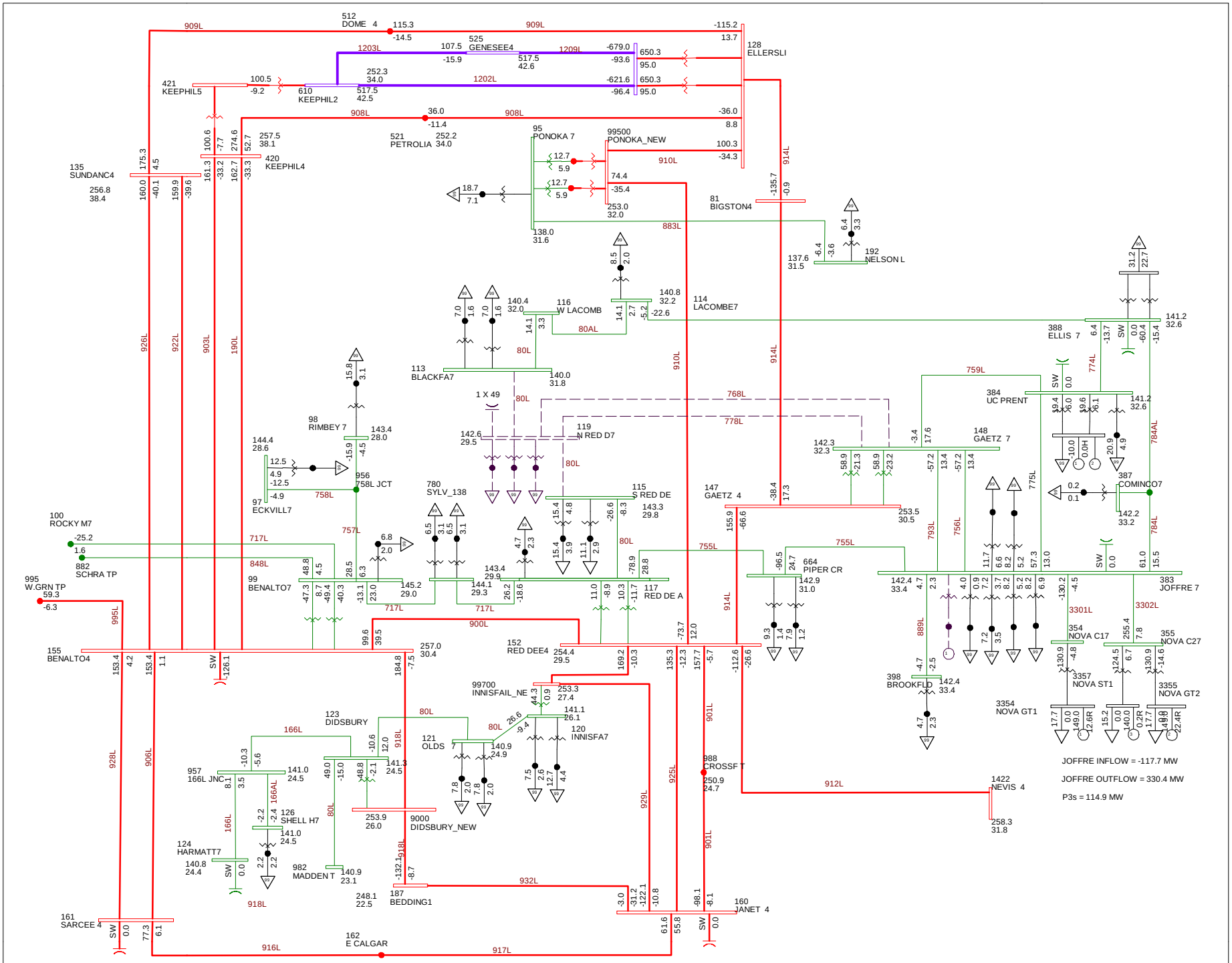
2012 SUMMER LIGHT BASE CASE REVISION 6.5

FIG 2012-ALT2-LOAD-SL-D8-14:
138 KV SUBSTATION BLACKFALDS 198S OUTAGE
WED, MAR 02 2011 10:27

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR

<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-663



RED DEER REGION STUDY

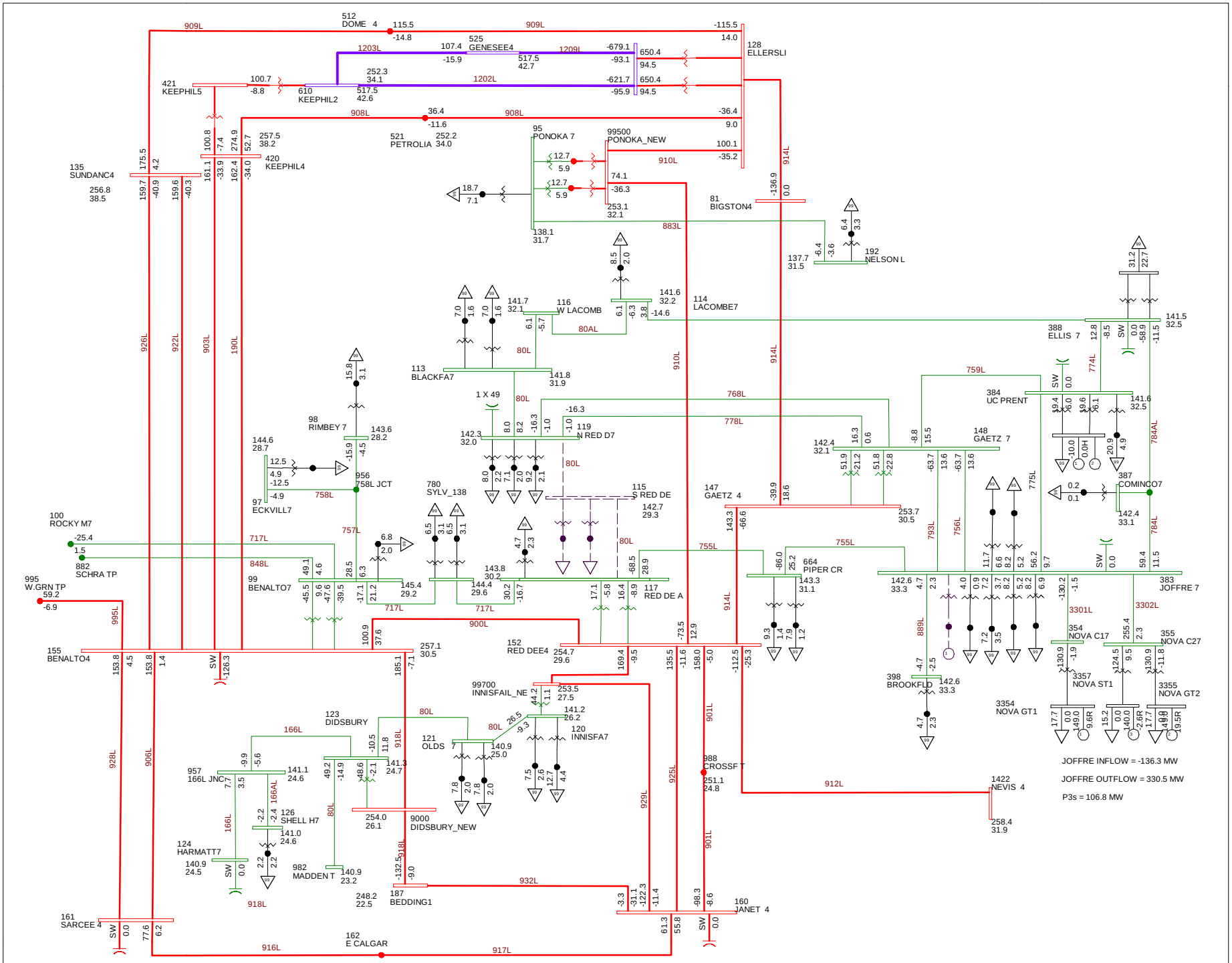
2012 SUMMER LIGHT BASE CASE REVISION 6.5

FIG 2012-ALT2-LOAD-SL-D8-15:
138 KV SUBSTATION N. RED DEER 217S OUTAGE
WED, MAR 02 2011 10:27

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR

<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-664



RED DEER REGION STUDY

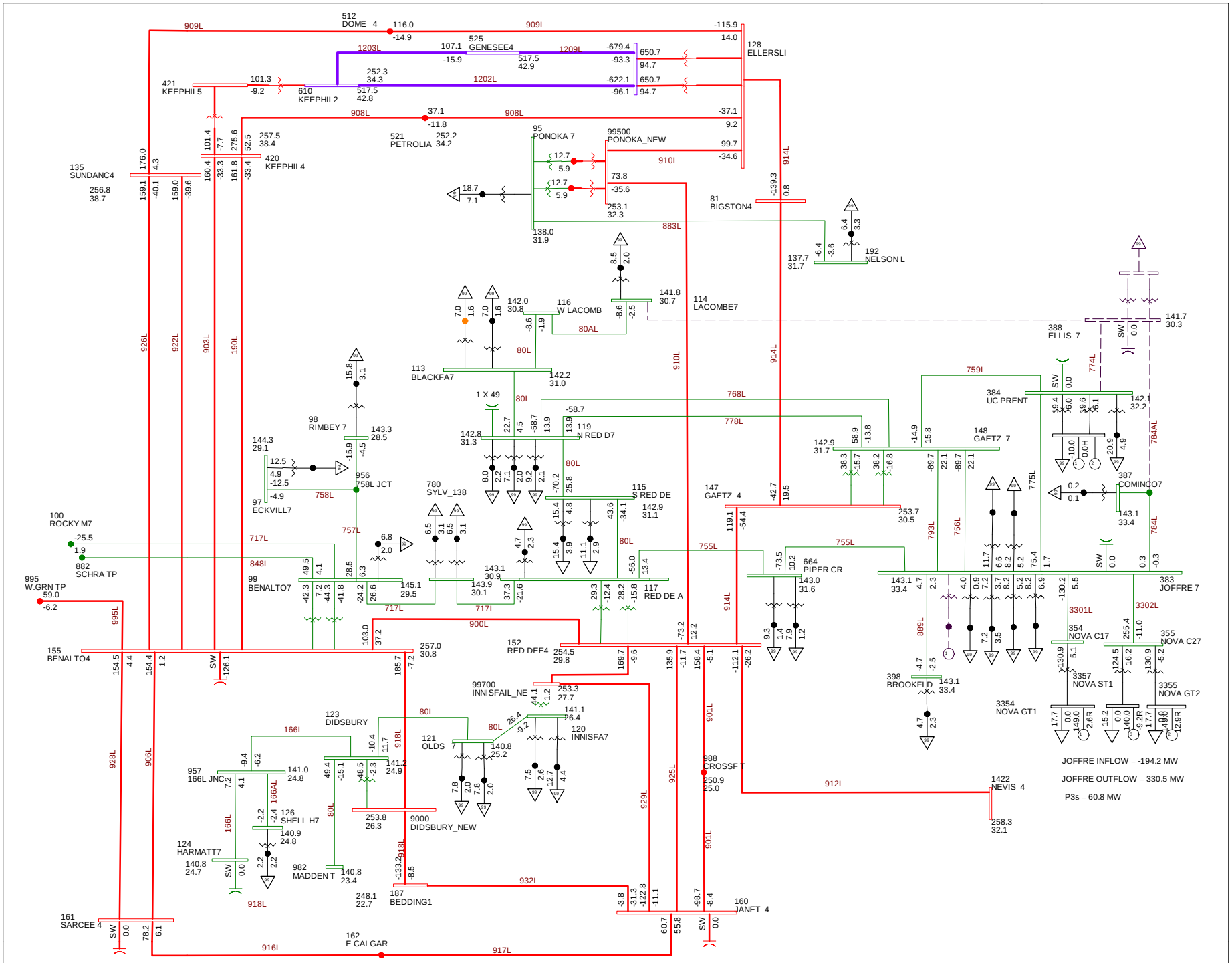
2012 SUMMER LIGHT BASE CASE REVISION 6.5

FIG 2012-ALT2-LOAD-SL-D8-16:
138 KV SUBSTATION S. RED DEER 194S OUTAGE
WED, MAR 02 2011 10:27

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR

<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-665



RED DEER REGION STUDY

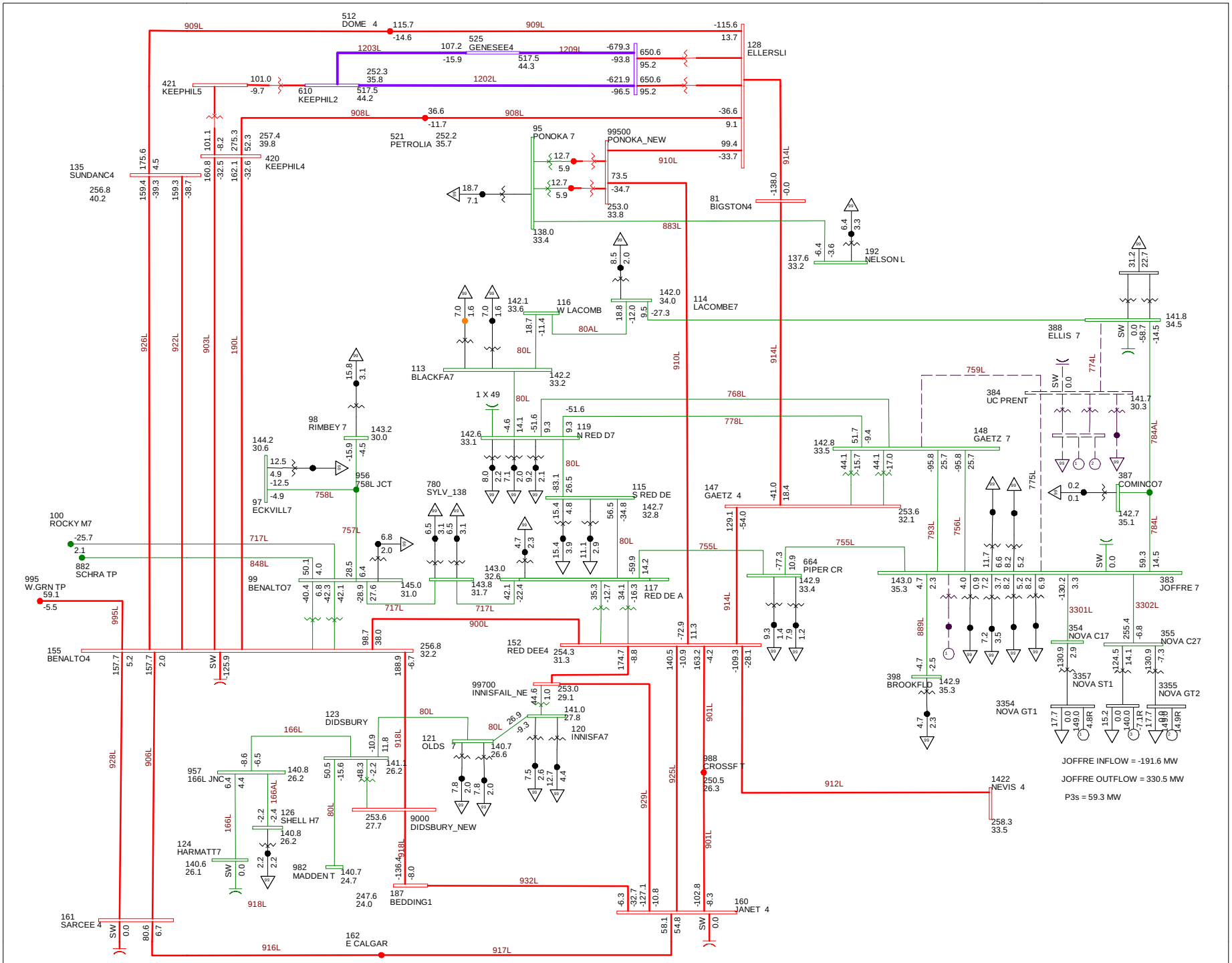
2012 SUMMER LIGHT BASE CASE REVISION 6.5

FIG 2012-ALT2-LOAD-SL-D8-17:
138 KV SUBSTATION ELLIS 332S OUTAGE
WED, MAR 02 2011 10:27

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR

<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-666



RED DEER REGION STUDY

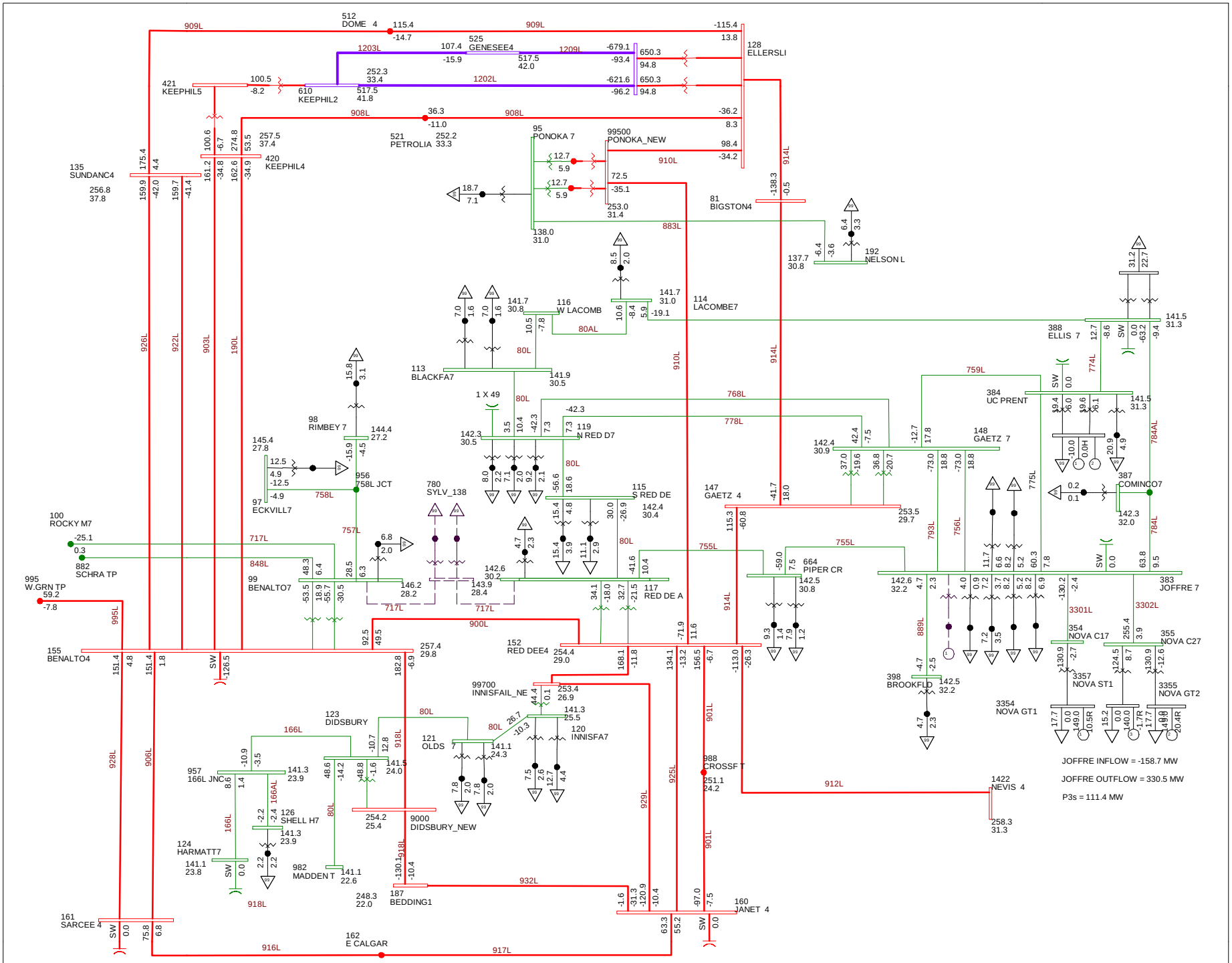
2012 SUMMER LIGHT BASE CASE REVISION 6.5

FIG 2012-ALT2-LOAD-SL-D8-18:
138 KV SUBSTATION U.C. PRENTISS 276S OUTAGE
WED, MAR 02 2011 10:27

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR

<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-667



RED DEER REGION STUDY

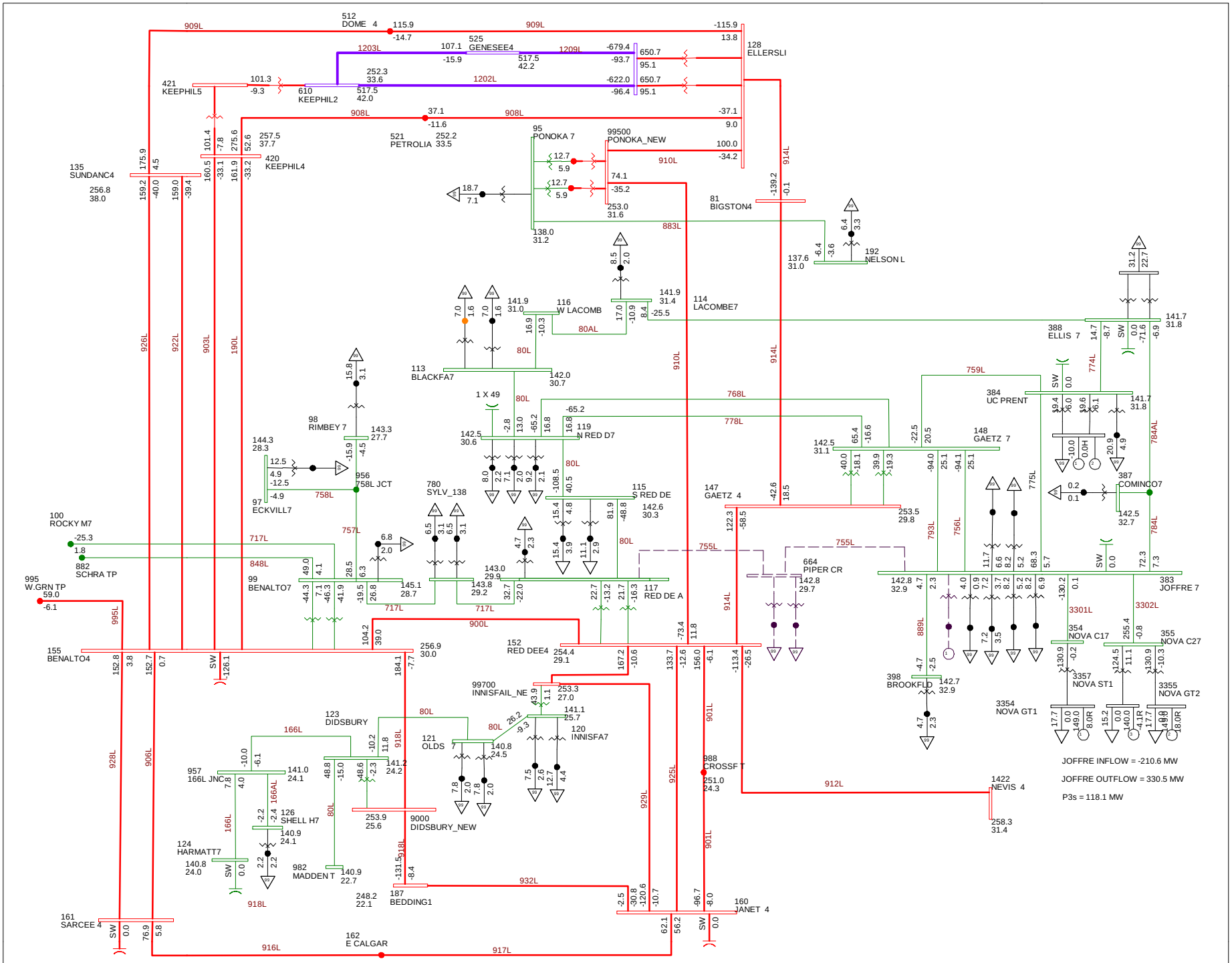
2012 SUMMER LIGHT BASE CASE REVISION 6.5

FIG 2012-ALT2-LOAD-SL-D8-19:
138 KV SUBSTATION SYLVAN LAKE 580S OUTAGE
WED, MAR 02 2011 10:27

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR

<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-668



RED DEER REGION STUDY

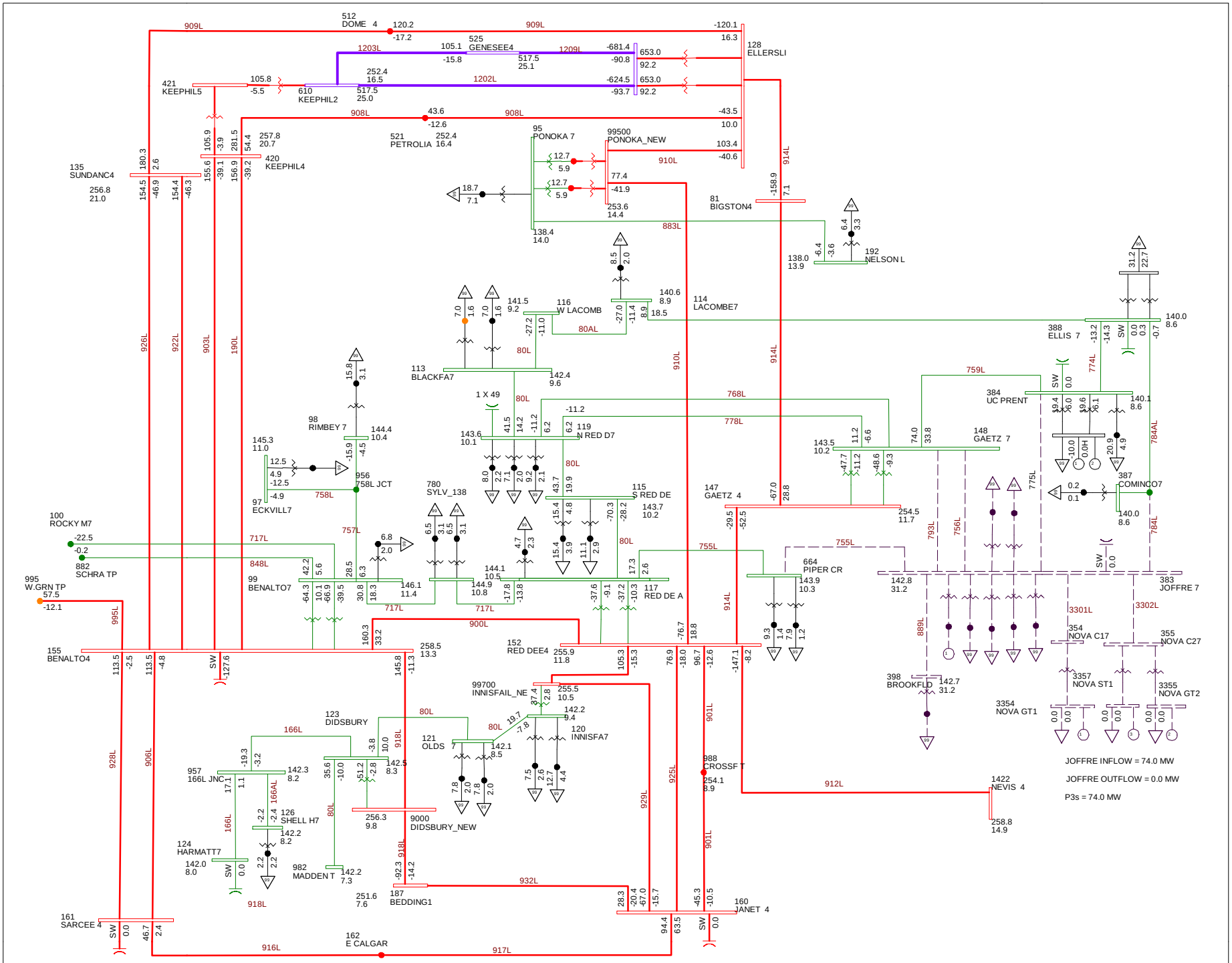
2012 SUMMER LIGHT BASE CASE REVISION 6.5

FIG 2012-ALT2-LOAD-SL-D8-20:
138 KV SUBSTATION PIPER CREEK 274S OUTAGE
WED, MAR 02 2011 10:27

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR

<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-669



RED DEER REGION STUDY

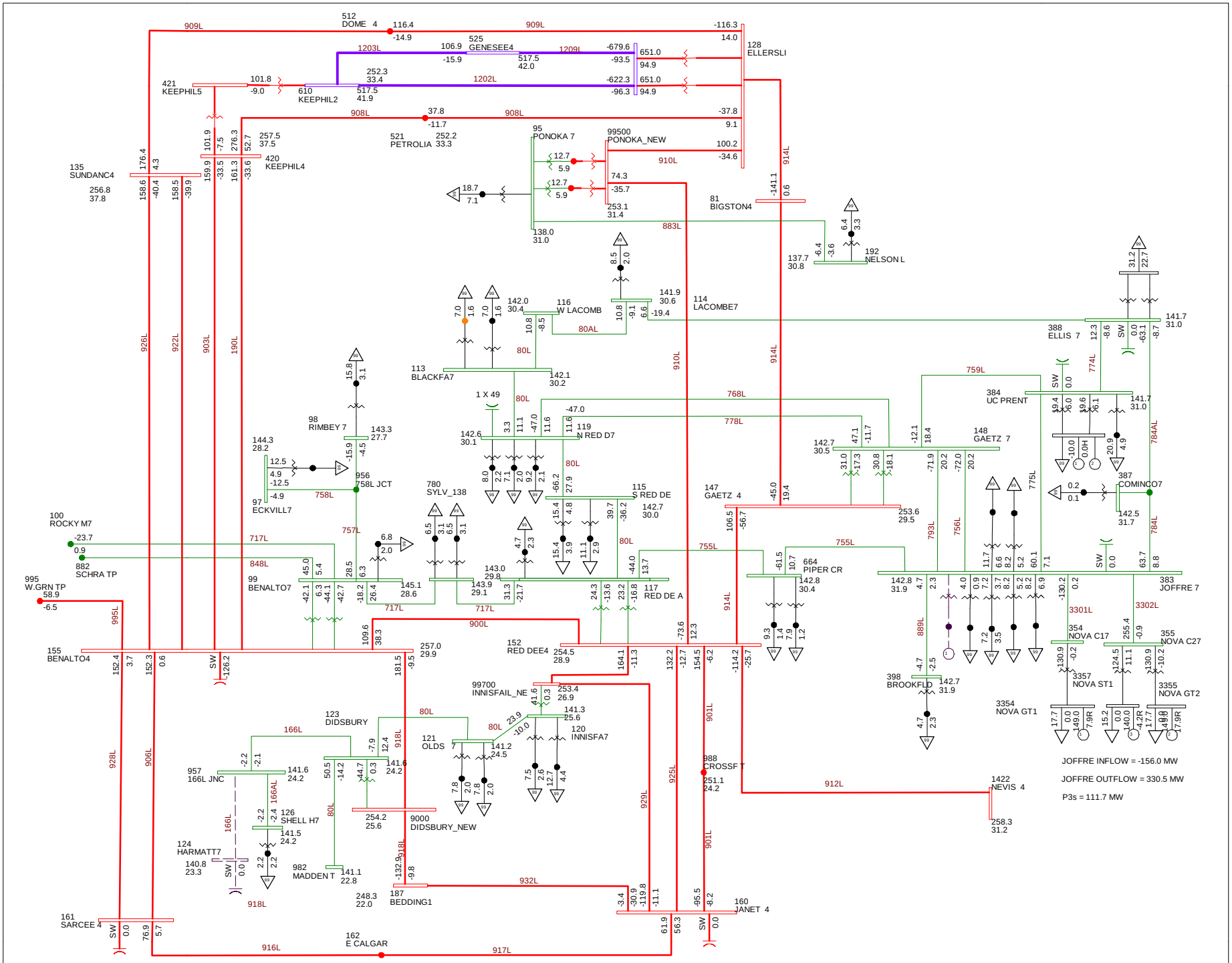
2012 SUMMER LIGHT BASE CASE REVISION 6.5

FIG 2012-ALT2-LOAD-SL-D8-21:
138 KV SUBSTATION JOFFRE 535S OUTAGE
WED, MAR 02 2011 10:27

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR

<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-670



RED DEER REGION STUDY

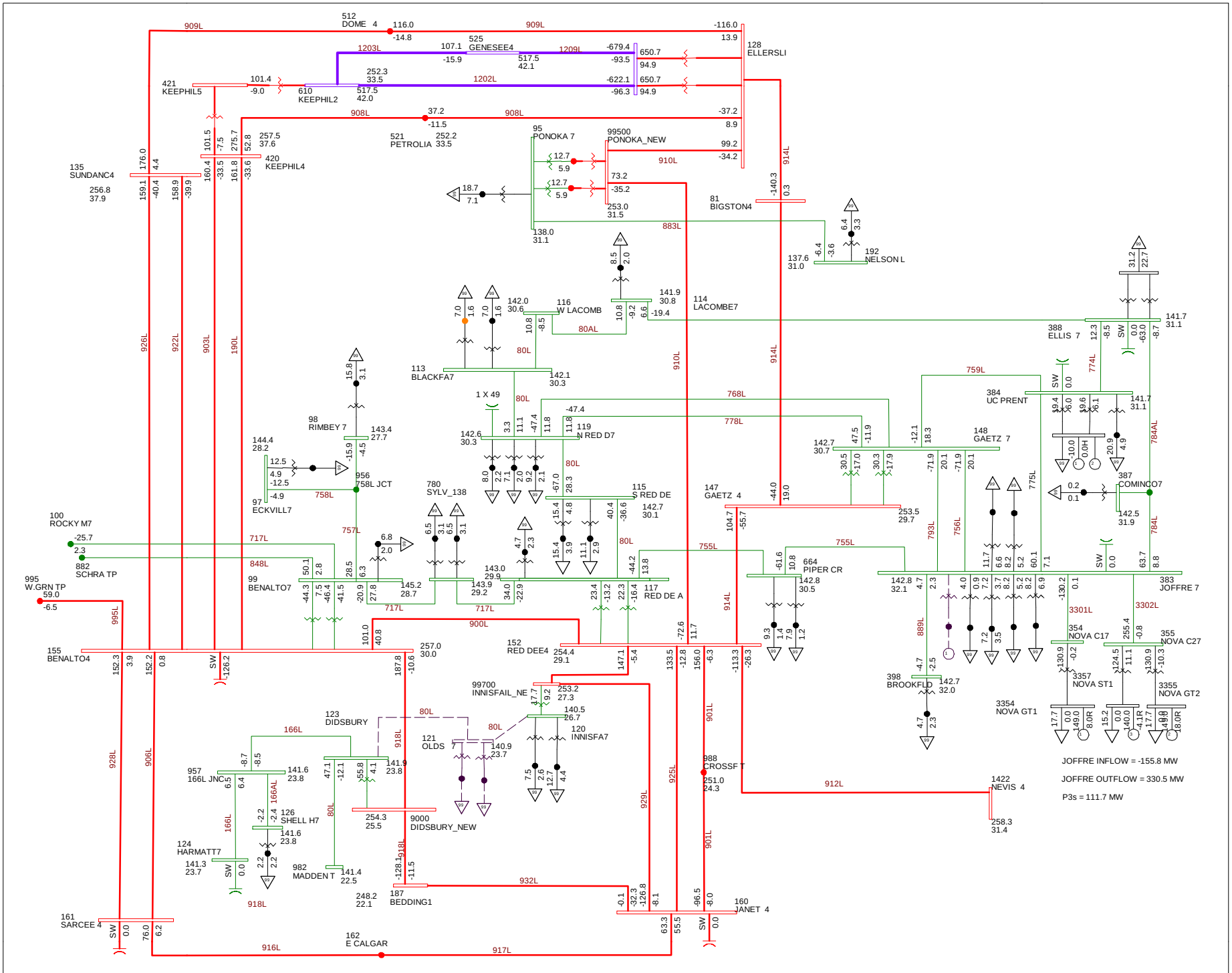
2012 SUMMER LIGHT BASE CASE REVISION 6.5

FIG 2012-ALT2-LOAD-SL-D8-22:
138 KV SUBSTATION HARMATTAN 256S OUTAGE
WED, MAR 02 2011 10:27

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR

<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-671



RED DEER REGION STUDY

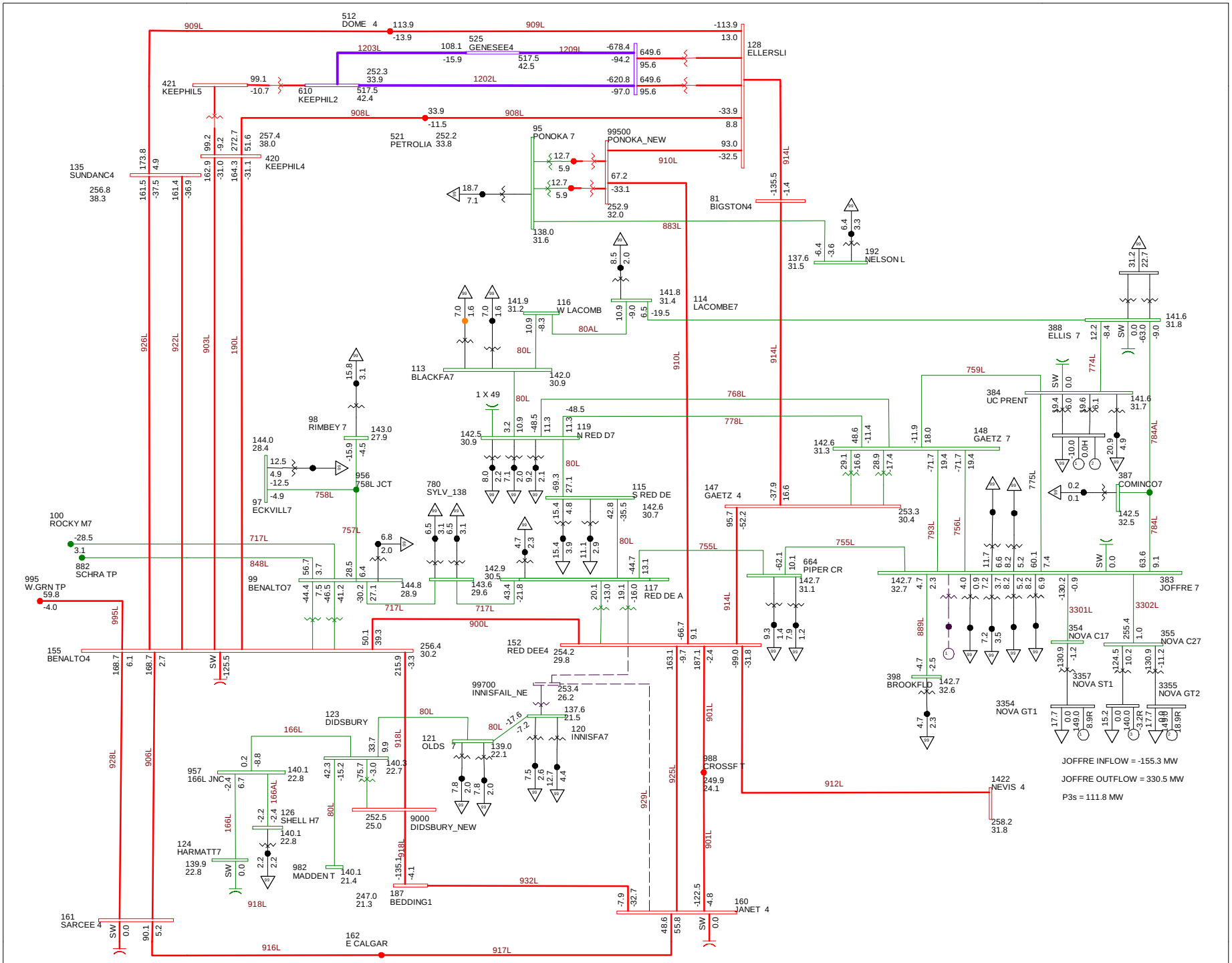
2012 SUMMER LIGHT BASE CASE REVISION 6.5

FIG 2012-ALT2-LOAD-SL-D8-23:
138 KV SUBSTATION OLDS 55S OUTAGE
WED, MAR 02 2011 10:27

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR

<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-672



RED DEER REGION STUDY

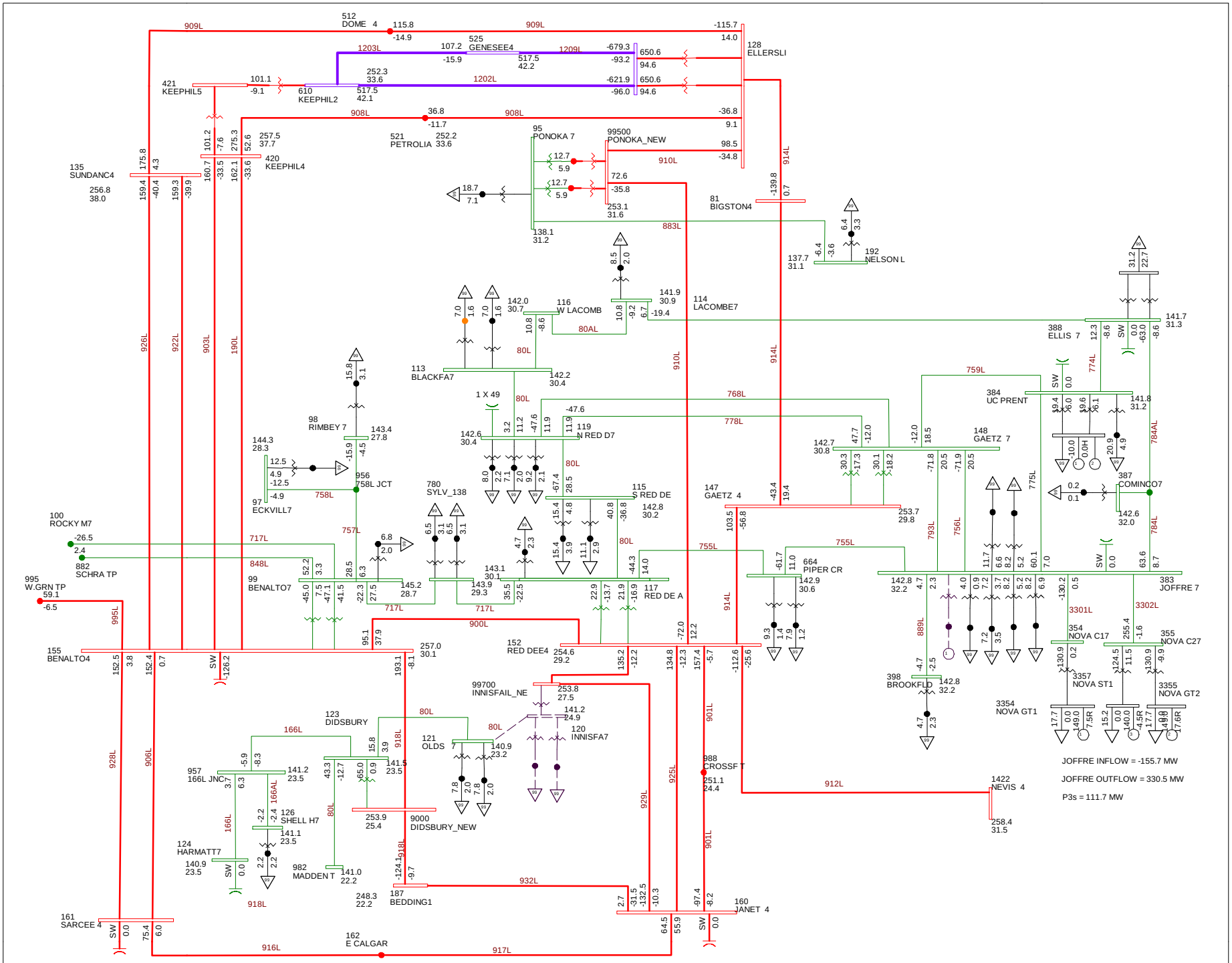
2012 SUMMER LIGHT BASE CASE REVISION 6.5

FIG 2012-ALT2-LOAD-SL-D8-24: 240 KV LINES AND TRANSFORMER AT SUBSTATION INNISFAIL 214S OUTAGE
WED, MAR 02 2011 10:27

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR

<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-673



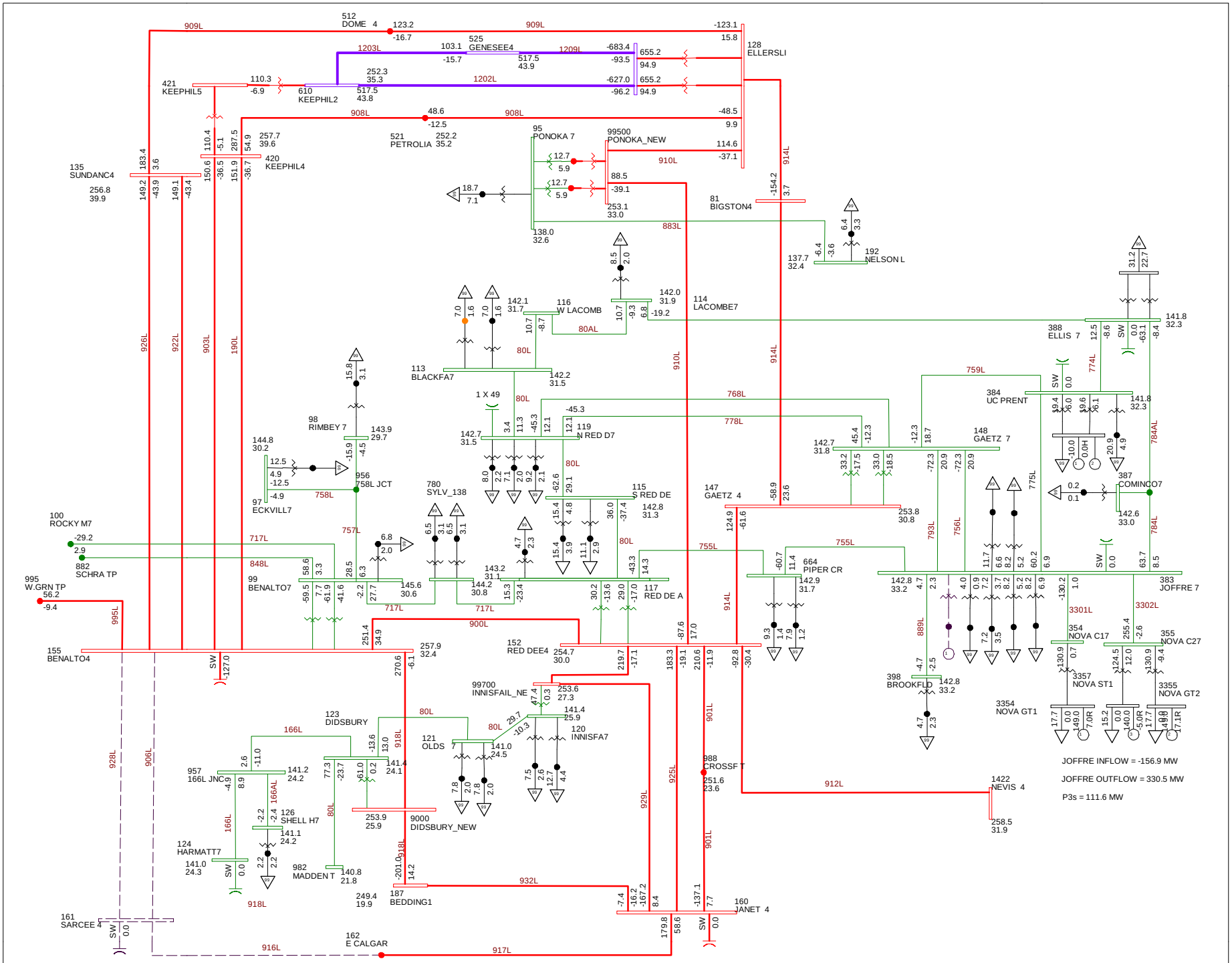
RED DEER REGION STUDY

2012 SUMMER LIGHT BASE CASE REVISION 6.5

FIG 2012-ALT2-LOAD-SL-D8-25 138 KV LINES AND TRANSFORMER AT SUBSTATION INNISFAIL 214S OUTAGE
WED, MAR 02 2011 10:27

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-674



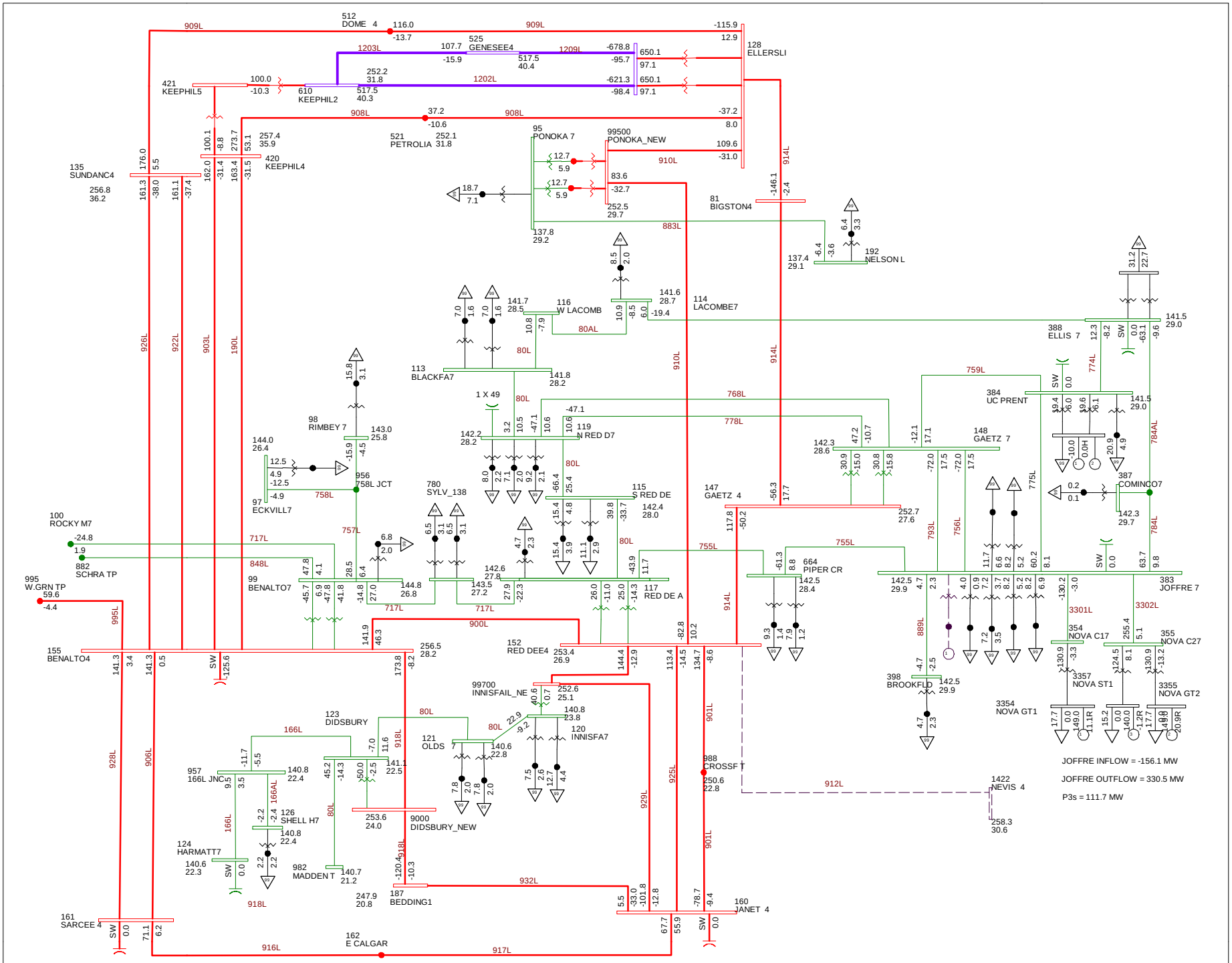
RED DEER REGION STUDY

2012 SUMMER LIGHT BASE CASE REVISION 6.5

FIG 2012-ALT2-LOAD-SL-D8-26: 240 KV LINES AND TRANSFORMER AT SUBSTATION SARCEE 42S OUTAGE
WED, MAR 02 2011 10:27

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-675



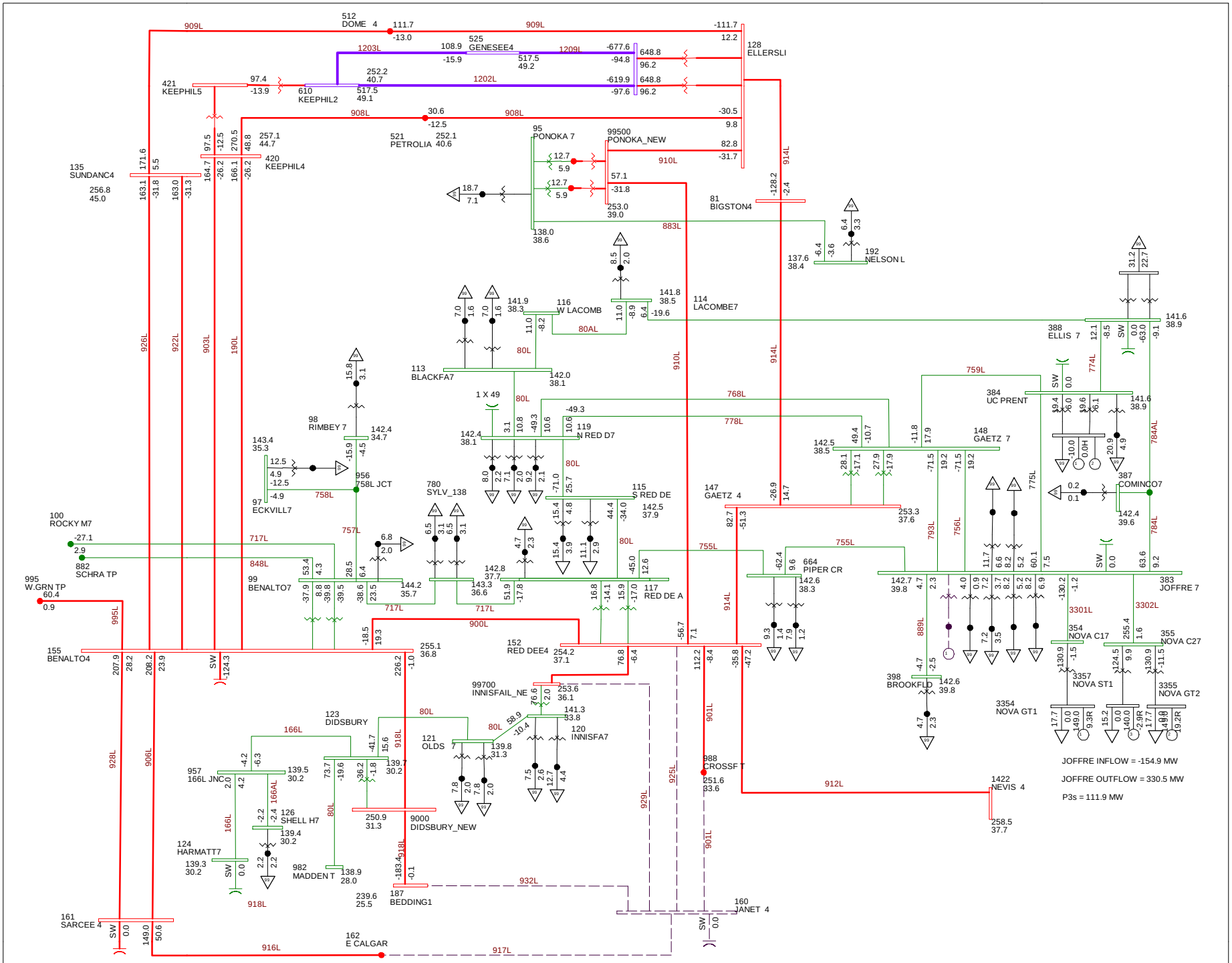
RED DEER REGION STUDY

2012 SUMMER LIGHT BASE CASE REVISION 6.5

FIG 2012-ALT2-LOAD-SL-D8-27: 240 KV LINES AND TRANSFORMER AT SUBSTATION NEVIS 766S OUTAGE
WED, MAR 02 2011 10:27

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-676



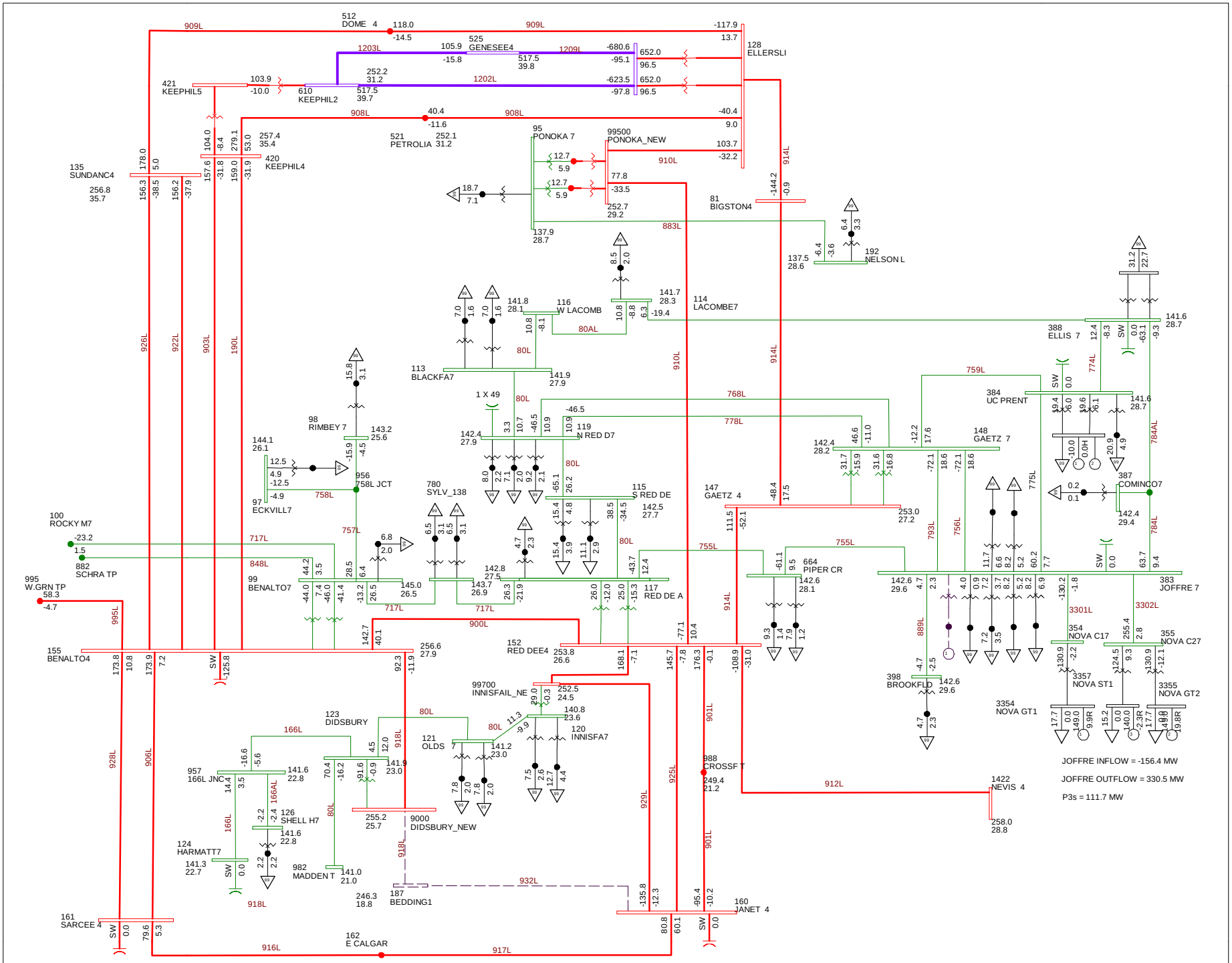
RED DEER REGION STUDY

2012 SUMMER LIGHT BASE CASE REVISION 6.5

FIG 2012-ALT2-LOAD-SL-D8-28: 240 KV LINES AND TRANSFORMER AT SUBSTATION JANET 74S OUTAGE
WED, MAR 02 2011 10:27

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-677



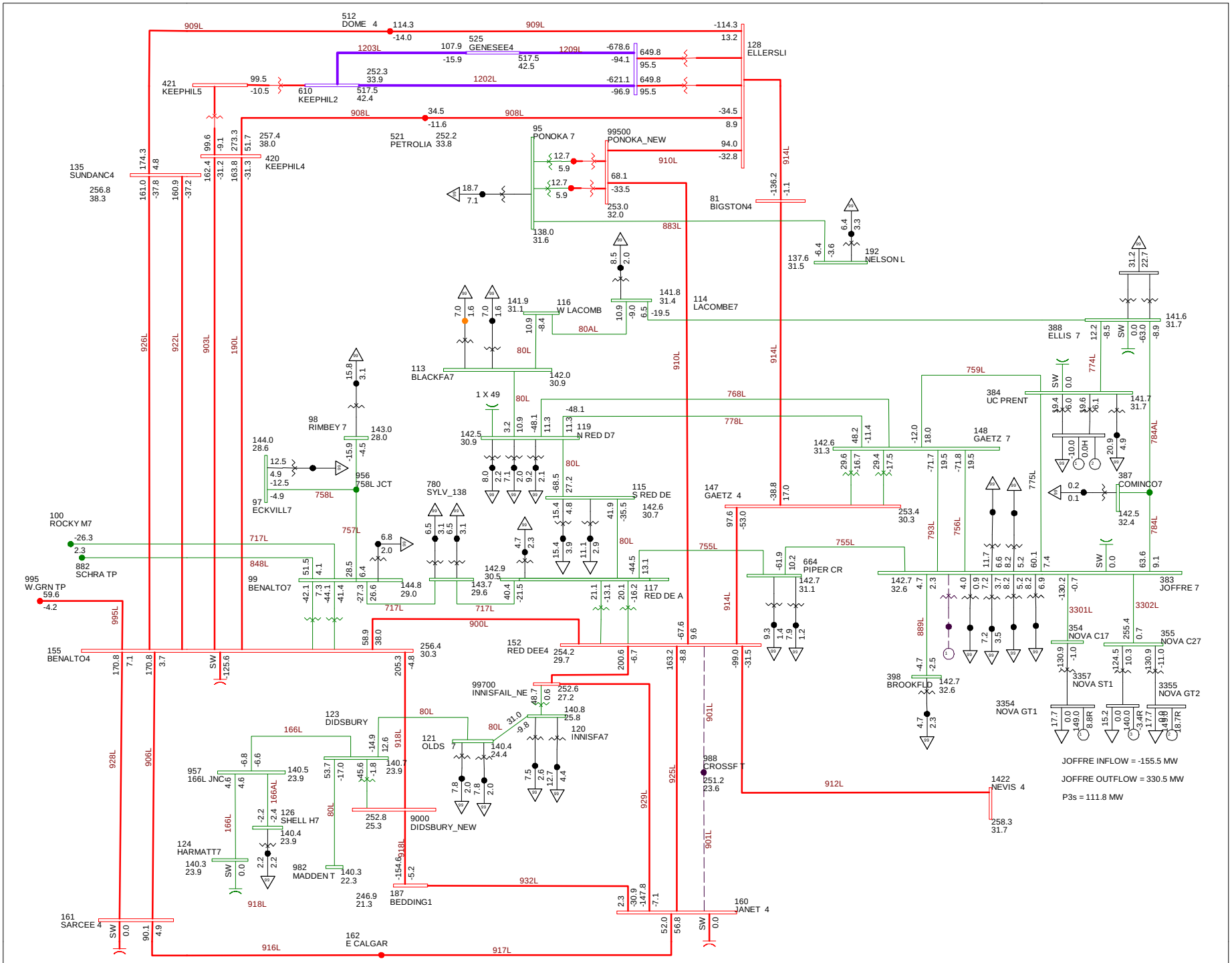
RED DEER REGION STUDY

2012 SUMMER LIGHT BASE CASE REVISION 6.5

FIG 2012-ALT2-LOAD-SL-D8-29: 40 KV LINES AND TRANSFORMER AT 2SUBSTATION BEDDINGTON 162S OUTAGE
WED, MAR 02 2011 10:27

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-678



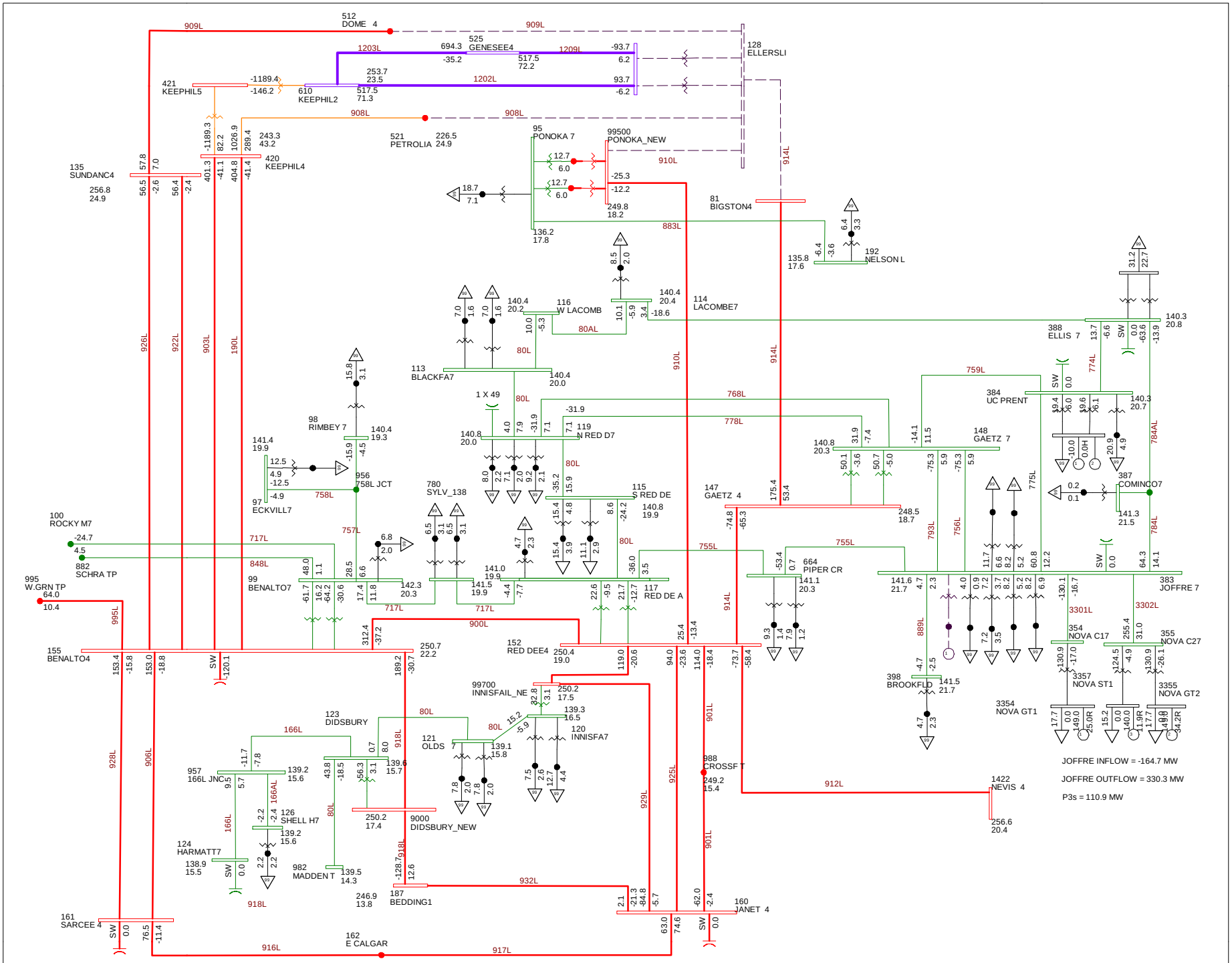
RED DEER REGION STUDY

2012 SUMMER LIGHT BASE CASE REVISION 6.5

FIG 2012-ALT2-LOAD-SL-D8-30: 240 KV LINES AND TRANSFORMER AT SUBSTATION CROSSFIELD 64S OUTAGE
WED, MAR 02 2011 10:27

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-679



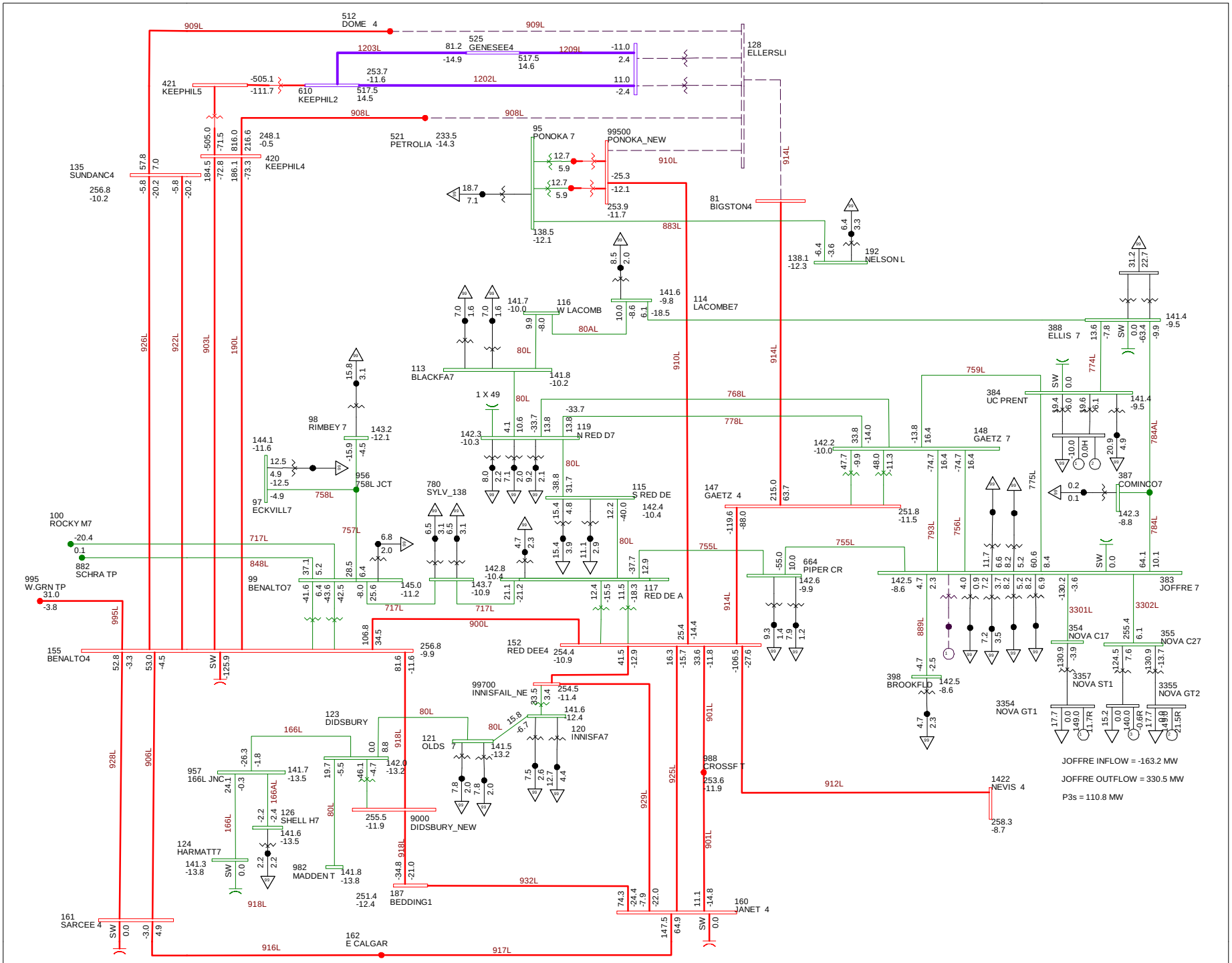
RED DEER REGION STUDY

2012 SUMMER LIGHT BASE CASE REVISION 6.5

FIG 2012-ALT2-LOAD-SL-D8-31: 240 KV LINES AND TRANSFORMER AT SUBSTATION ELLERSLIE 89S OUTAGE
WED, MAR 02 2011 10:27

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-680



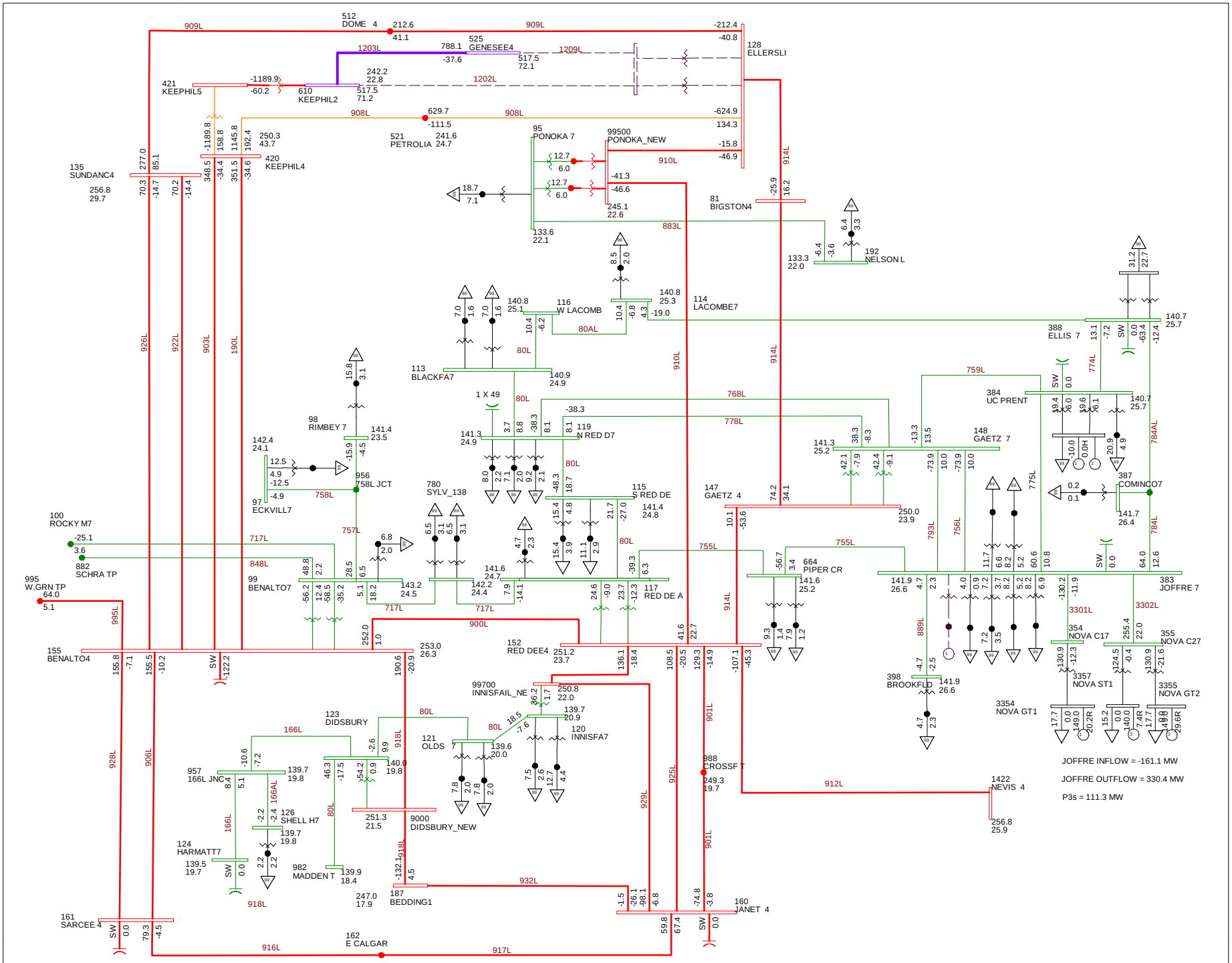
RED DEER REGION STUDY

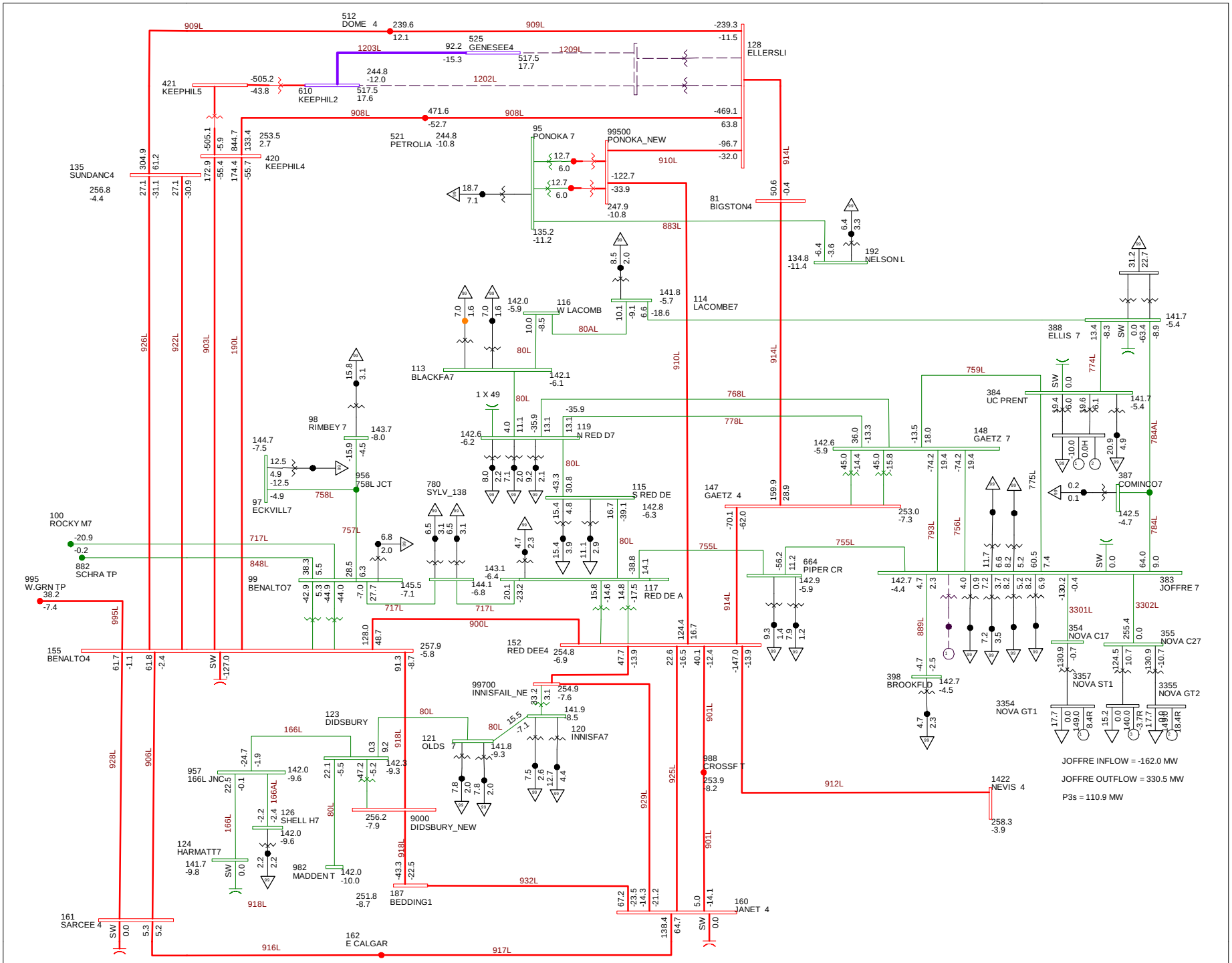
2012 SUMMER LIGHT BASE CASE REVISION 6.5

FIG 2012-ALT2-LOAD-SL-D8-31-1: 240 KV LINES AND TRANSFORMER
SUBSTATION ELLERSLIE 89S OUTAGE WITH RAS
WED, MAR 02 2011 10:27

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-681


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DOME 4
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1203L
517.5
72.1
1209L
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ELLERSLI
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-40.8
242.2
22.8
1202L
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-60.2
610
KEEPHIL2
517.5
71.2
908L
629.7
-111.5
521
PETROLIA
241.6
24.7
-624.9
134.3
95
PONOKA 7
99500
PONOKA_NEW
910L
914L
-15.8
-46.9
12.7
6.0
-41.3
-46.6
245.1
22.6
18.7
7.1
133.6
22.1
883L
81
BIGSTON4
-25.9
16.2
6.4
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133.3
22.0
192
NELSON L
135
SUNDANC4
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70.2
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351.5
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KEEPHIL4
8.5
2.0
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25.3
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LACOMBE7
140.8
25.1
116
W LACOMB
10.4
-6.8
4.3
-6.2
80AL
80L
113
BLACKFA7
140.9
24.9
7.0
1.6
926L
922L
903L
190L
910L
914L
759L
768L
778L
784AL
774L
775L
793L
756L
784L
388
ELLIS 7
140.7
25.7
31.2
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SW
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384
UC PRENT
140.7
25.7
19.4
6.0
19.6
6.1
0.0H
20.9
4.9
-10.0
387
COMINCO7
0.2
0.1
141.7
26.4
148
GAETZ 7
141.3
25.2
38.3
-8.3
-13.3
13.5
-73.9
10.0
42.1
-7.9
42.4
-9.1
147
GAETZ 4
74.2
34.1
250.0
23.9
10.1
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1 X 49
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141.3
24.9
119
N RED D7
8.0
2.2
7.1
2.0
9.2
2.1
-48.3
18.7
115
S RED DE
141.4
24.8
15.4
4.8
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3.9
11.1
2.9
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6.3
117
RED DE A
141.6
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142.2
24.4
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RIMBEY 7
141.4
23.5
15.8
3.1
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142.4
24.1
12.5
4.9
-12.5
-4.9
956
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758L
97
ECKVILL7
780
SYLV_138
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3.1
4.7
2.3
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ROCKY M7
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3.6
882
SCHRA TP
995
W.GRN TP
64.0
5.1
995L
848L
717L
757L
99
BENALTO7
6.8
2.0
48.8
2.2
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6.5
-56.2
12.4
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5.1
18.2
143.2
24.5
900L
252.0
1.0
253.0
26.3
155
BENALTO4
155.8
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155.5
-10.2
SW
-122.2
190.6
-20.9
928L
906L
161
SARCEE 4
SW
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79.3
-4.5
916L
162
E CALGAR
917L
152
RED DEE4
251.2
23.7
136.1
-18.4
108.5
-20.5
129.3
-14.9
-107.1
-45.3
41.6
22.7
914L
901L
925L
929L
988
CROSSFT
249.3
19.7
912L
1422
NEVIS 4
256.8
25.9
664
PIPER CR
141.6
25.2
-56.7
3.4
755L
141.9
26.6
4.7
2.3
4.0
0.9
7.2
3.7
8.2
5.2
8.2
6.9
-130.2
-11.9
383
JOFFRE 7
889L
398
BROOKFLD
141.9
26.6
-4.7
-2.5
4.7
2.3
3301L
3302L
354
NOVA C17
355
NOVA C27
255.4
22.0
-0.4
130.9
-21.6
3357
NOVA ST1
3355
NOVA GT2
3354
NOVA GT1
17.7
0.0
149.0
20.2R
15.2
0.0
140.0
7.4R
17.7
0.0
149.0
29.6R
JOFFRE INFLOW = -161.1 MW
JOFFRE OUTFLOW = 330.4 MW
P3s = 111.3 MW
99700
INNISFAIL_NE
250.8
22.0
86.2
1.7
139.7
20.9
18.5
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120
INNISFA7
123
DIDSBURY
166L
80L
-10.6
-7.2
957
166L JNC
139.7
19.8
8.4
5.1
166AL
-2.2
-2.4
126
SHELL H7
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19.8
2.2
2.2
124
HARMATT7
139.5
19.7
SW
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46.3
-17.5
-54.2
0.9
140.0
19.8
-2.6
9.9
918L
121
OLDS 7
139.6
20.0
7.8
2.0
7.8
2.0
7.5
2.6
12.7
4.4
251.3
21.5
9000
DIDSBURY_NEW
982
MADDEN T
139.9
18.4
-132.1
4.5
247.0
17.9
187
BEDDING1
932L
-1.5
-26.1
-98.1
-6.8
-74.8
-3.8
160
JANET 4
59.8
67.4
SW
0.0
901L
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40



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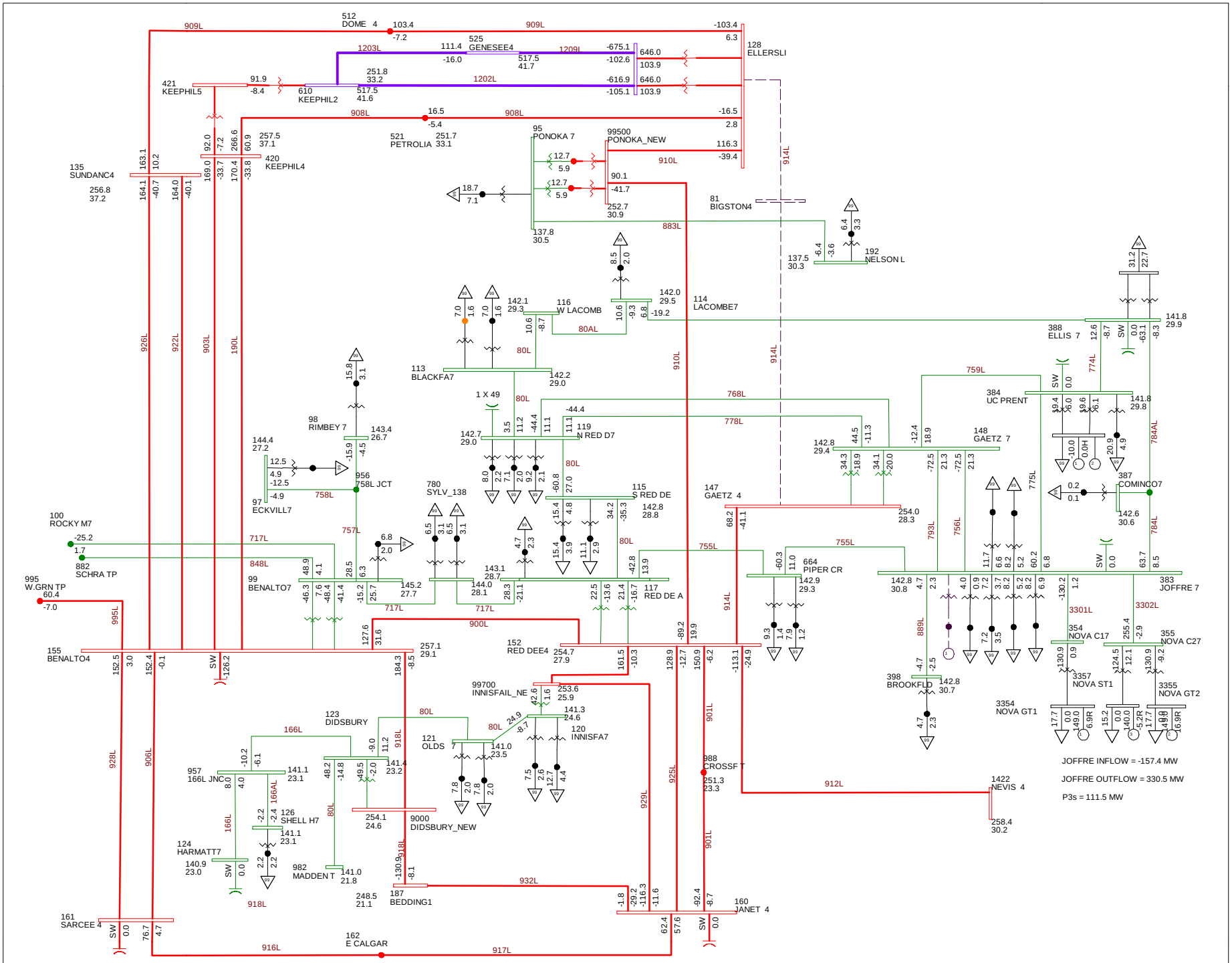
FIG 2012-ALT2-LOAD-SL-D8-32-1: 500 KV LINES AND TRANSFORMER SUBSTATION ELLERSLIE 89S OUTAGE WITH RAS

WED, MAR 02 2011 10:27

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR

<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-683



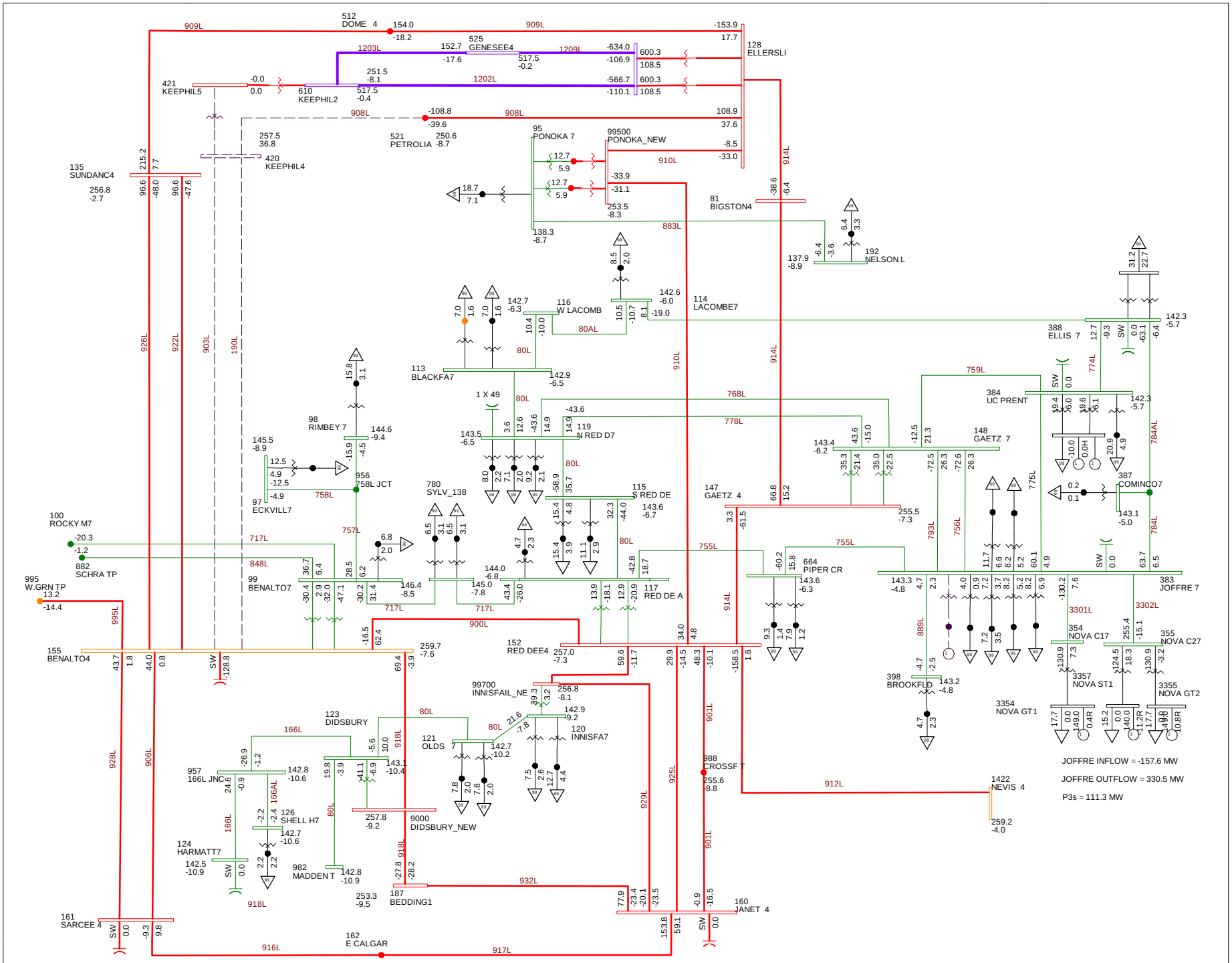
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FIG 2012-ALT2-LOAD-SL-D8-33: 240 KV LINES AND TRANSFORMER AT SUBSTATION BIGSTONE 86S OUTAGE
WED, MAR 02 2011 10:27

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-684



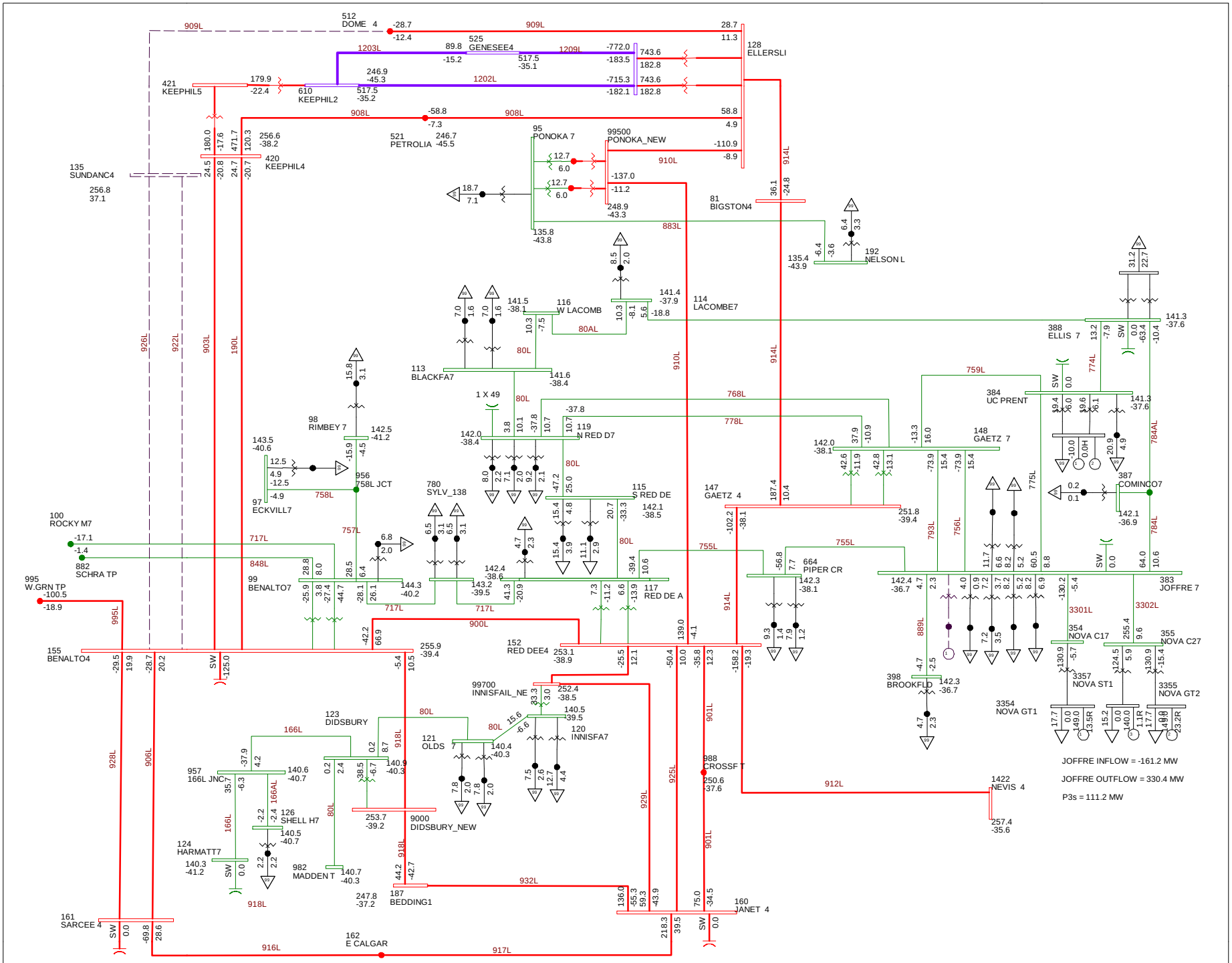
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FIG 2012-ALT2-LOAD-SL-D8-34: 240 KV LINES AND TRANSFORMER AT SUBSTATION KEEPHILLS 568S OUTAGE
WED, MAR 02 2011 10:27

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-685



RED DEER REGION STUDY

2012 SUMMER LIGHT BASE CASE REVISION 6.5

FIG 2012-ALT2-LOAD-SL-D8-35: 240 KV LINES AND TRANSFORMER AT SUBSTATION SUNDANCE 821S OUTAGE WITH RAS
WED, MAR 02 2011 10:27

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

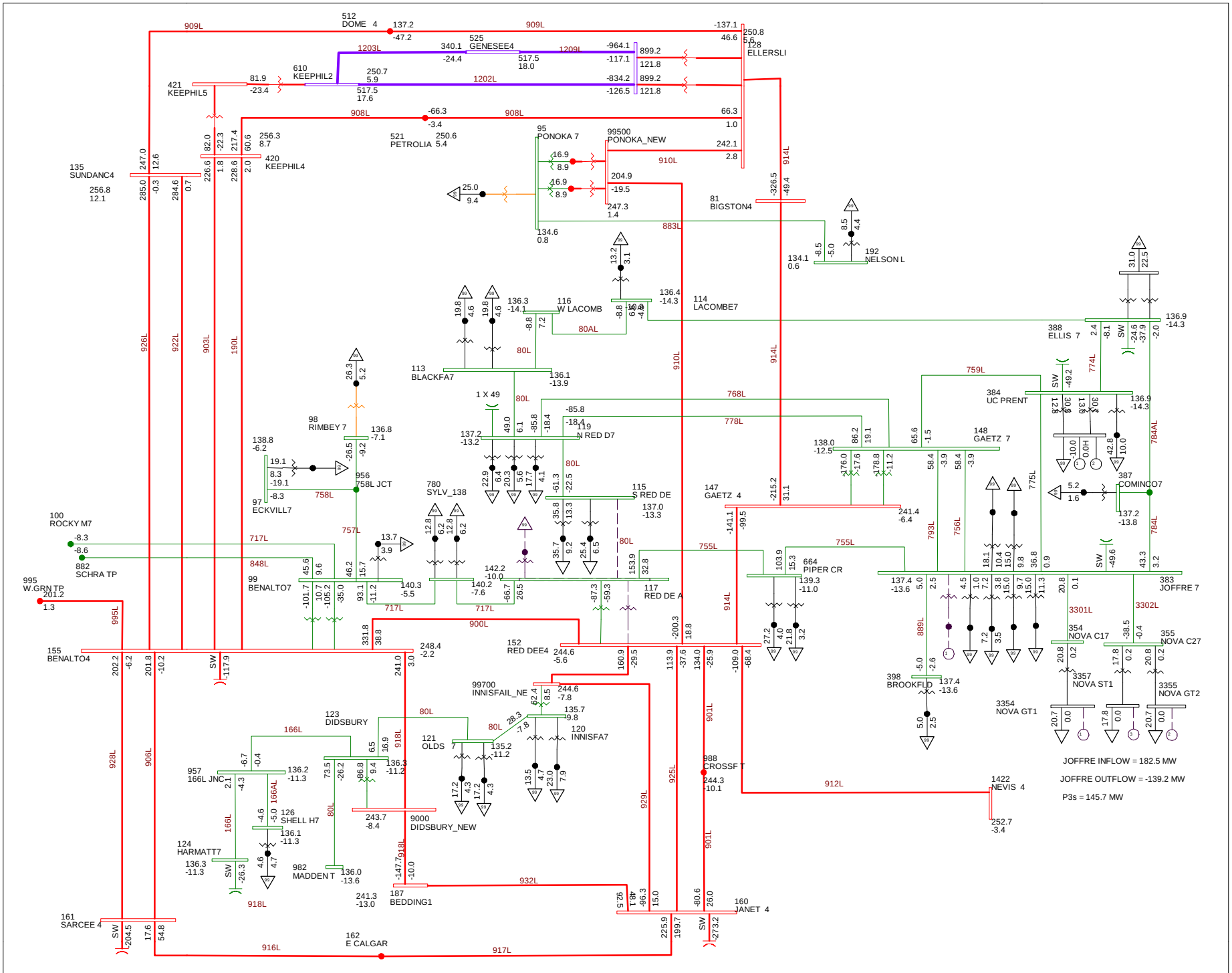
D-2012-686

Table D-2012-17: Summary of 2012 Load Adequacy Power Flow Analysis - Alternative 2 Category D8 (WP with Nova OFF)

Figure No.	Contingency	Overloaded Element	Percent Overload	Other System Performance Concerns	SPS
Winter Peak					
Fig 2012-Alt2-Load-WP-D8-1 (Nova OFF)	138 kV lines and transformer at substation Red Deer 63S-A	None	N/A	None	None
Fig 2012-Alt2-Load-WP-D8-2 (Nova OFF)	138 kV lines and transformer at substation Red Deer 63S-B	None	N/A	None	None
Fig 2012-Alt2-Load-WP-D8-3 (Nova OFF)	240 kV lines and transformer at substation Red Deer 63S	N/A	N/A	Diverge	Curtail load of Red Deer area by 30%
Fig 2012-Alt2-Load-WP-D8-4 (Nova OFF) /Fig 2012-Alt2-Load-WP-D8-4-1 (Nova OFF)	138 kV lines and transformer at substation Gaetz 87S	80AL N.E. Lacombe 212S to W. Lacombe 958S	134%	Voltage violation at Joffre area	Curtail load of Red Deer area by 18%
		80L Blackfalds 198S to N. Red Deer 217S	101%		
		Transformer 240/138 kV at Red Deer 63S	114%		
Fig 2012-Alt2-Load-WP-D8-5 (Nova OFF) /Fig 2012-Alt2-Load-WP-D8-5-1(Nova OFF)	240 kV lines and transformer at substation Gaetz 87S	Transformer 240/138 kV at Red Deer 63S	107%	None	Curtail load of Red Deer area by 10%
Fig 2012-Alt2-Load-WP-D8-6 (Nova OFF)	138 kV lines and transformer at substation Benalto 17S	None	N/A	None	None
Fig 2012-Alt2-Load-WP-D8-7 (Nova OFF)	240 kV lines and transformer at substation Benalto 17S	N/A	N/A	Diverge	Curtail load of Red Deer and Didsbury areas by 40% and 1020MW Generation curtailment at Sundance
Fig 2012-Alt2-Load-WP-D8-8 (Nova OFF)	138 kV lines and transformer at substation Didsbury (152S)	None	N/A	None	None
Fig 2012-Alt2-Load-WP-D8-9 (Nova OFF)	240 kV lines and transformer at substation Didsbury (152S)	None	N/A	None	None

Figure No.	Contingency	Overloaded Element	Percent Overload	Other System Performance Concerns	SPS
Fig 2012-Alt2-Load-WP-D8-10 (Nova OFF)	240 kV lines and transformer at Substation Ponoka 331S	None	N/A	No resource for Ponoka and Nelson Lake areas	None
Fig 2012-Alt2-Load-WP-D8-11 (Nova OFF)	138 kV lines and transformer at Substation Ponoka 331S	None	N/A	None	None
Fig 2012-Alt2-Load-WP-D8-12 (Nova OFF)	138 kV Substation W. Lacombe 958S	None	N/A	None	None
Fig 2012-Alt2-Load-WP-D8-13 (Nova OFF)	138 kV Substation N.E. Lacombe 212S	None	N/A	None	None
Fig 2012-Alt2-Load-WP-D8-14 (Nova OFF)	138 kV Substation Blackfalds 198S	None	N/A	None	None
Fig 2012-Alt2-Load-WP-D8-15 (Nova OFF)	138 kV Substation N. Red Deer 217S	None	N/A	None	None
Fig 2012-Alt2-Load-WP-D8-16 (Nova OFF)	138 kV Substation S. Red Deer 194S	None	N/A	None	None
Fig 2012-Alt2-Load-WP-D8-17 (Nova OFF)	138 kV Substation Ellis 332S	None	N/A	None	None
Fig 2012-Alt2-Load-WP-D8-18 (Nova OFF)	138 kV Substation U.C. Prentiss 276S	None	N/A	None	None
Fig 2012-Alt2-Load-WP-D8-19 (Nova OFF)	138 kV Substation Sylvan Lake 580S	None	N/A	None	None
Fig 2012-Alt2-Load-WP-D8-20 (Nova OFF)	138 kV Substation Piper Creek 274S	None	N/A	None	None
Fig 2012-Alt2-Load-WP-D8-21 (Nova OFF)	138 kV Substation Joffre 535S	None	N/A	None	None
Fig 2012-Alt2-Load-WP-D8-22 (Nova OFF)	138 kV Substation Harmattan 256S	None	N/A	None	None
Fig 2012-Alt2-Load-WP-D8-23 (Nova OFF)	138 kV Substation Olds 55S	None	N/A	None	None
Fig 2012-Alt2-Load-WP-D8-24 (Nova OFF)	240 kV lines and transformer at Substation Innisfail 214S	None	N/A	None	None
Fig 2012-Alt2-Load-WP-D8-25 (Nova OFF)	138 kV lines and transformer at Substation Innisfail 214S	None	N/A	None	None
Fig 2012-Alt2-Load-WP-D8-26 (Nova OFF)	240 kV lines and transformer at substation Sarcee 42S	None	N/A	None	None
Fig 2012-Alt2-Load-WP-D8-27 (Nova OFF)	240 kV lines and transformer at substation Nevis 766S	None	N/A	None	None

Figure No.	Contingency	Overloaded Element	Percent Overload	Other System Performance Concerns	SPS
Fig 2012-Alt2-Load-WP-D8-28 (Nova OFF)	240 kV lines and transformer at substation Janet 74S	N/A	N/A	Diverge	420MW Generation curtailment at Sundance; Curtail load of Didsbury and area 6 by 20%
Fig 2012-Alt2-Load-WP-D8-29 (Nova OFF)	240 kV lines and transformer at substation Beddington 162S	None	N/A	None	None
Fig 2012-Alt2-Load-WP-D8-30 (Nova OFF)	240 kV lines and transformer at substation Crossfield 64S	None	N/A	None	None
Fig 2012-Alt2-Load-WP-D8-31 (Nova OFF)	240 kV lines and transformer at substation Ellerslie 89S	N/A	N/A	Diverge	1200MW Generation curtailment at Genesee; Curtail load of Red Deer, Didsbury areas by 20% and area 60 by 15%
Fig 2012-Alt2-Load-WP-D8-32 (Nova OFF)	500 kV lines and transformer at substation Ellerslie 89S	None	N/A	Transformer 500/240 kV at Keephills 868S heavily overloaded and Some elements overloaded in Area 40	Generation curtailment at Genesee
Fig 2012-Alt2-Load-WP-D8-33 (Nova OFF)	240 kV lines and transformer at substation Bigstone 86S	None	N/A	None	None
Fig 2012-Alt2-Load-WP-D8-34 (Nova OFF)	240 kV lines and transformer at substation Keephills 568S	None	N/A	None	None
Fig 2012-Alt2-Load-WP-D8-35 (Nova OFF)	240 kV lines and transformer at substation Sundance 821S	N/A	N/A	Diverge	Curtail load of Red Deer area by 20% and areas 40 & 60 by 50%



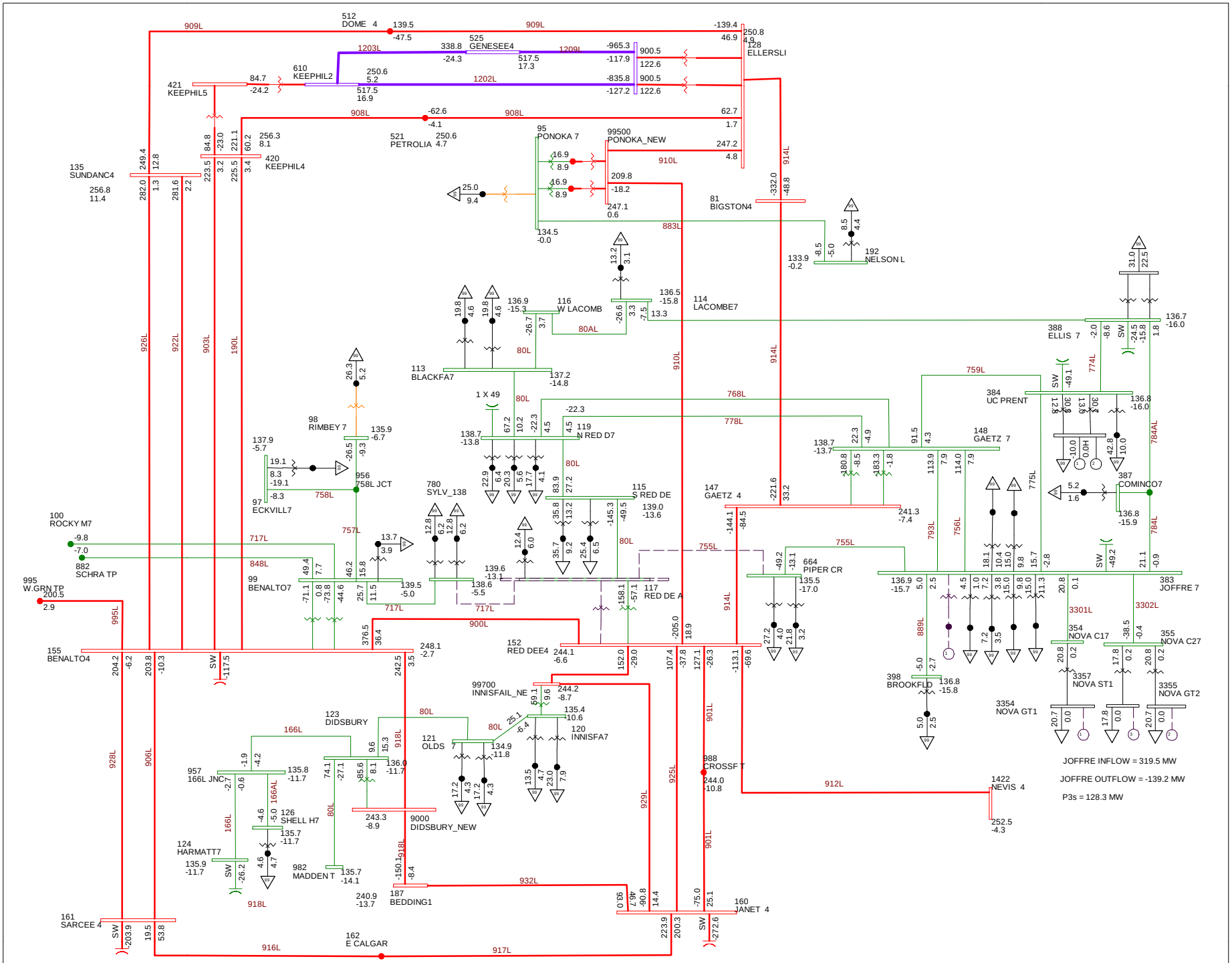
RED DEER REGION STUDY

2012 WINTER PEAK BASE CASE REVISION 6.5

FIG 2012-ALT2-LOAD-WP-D8-1(NOVA OFF): 138 KV LINES AND TRANSFORMER AT SUBSTATION RED DEER 63S-A OUTAGE
WED, MAR 02 2011 10:50

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-690



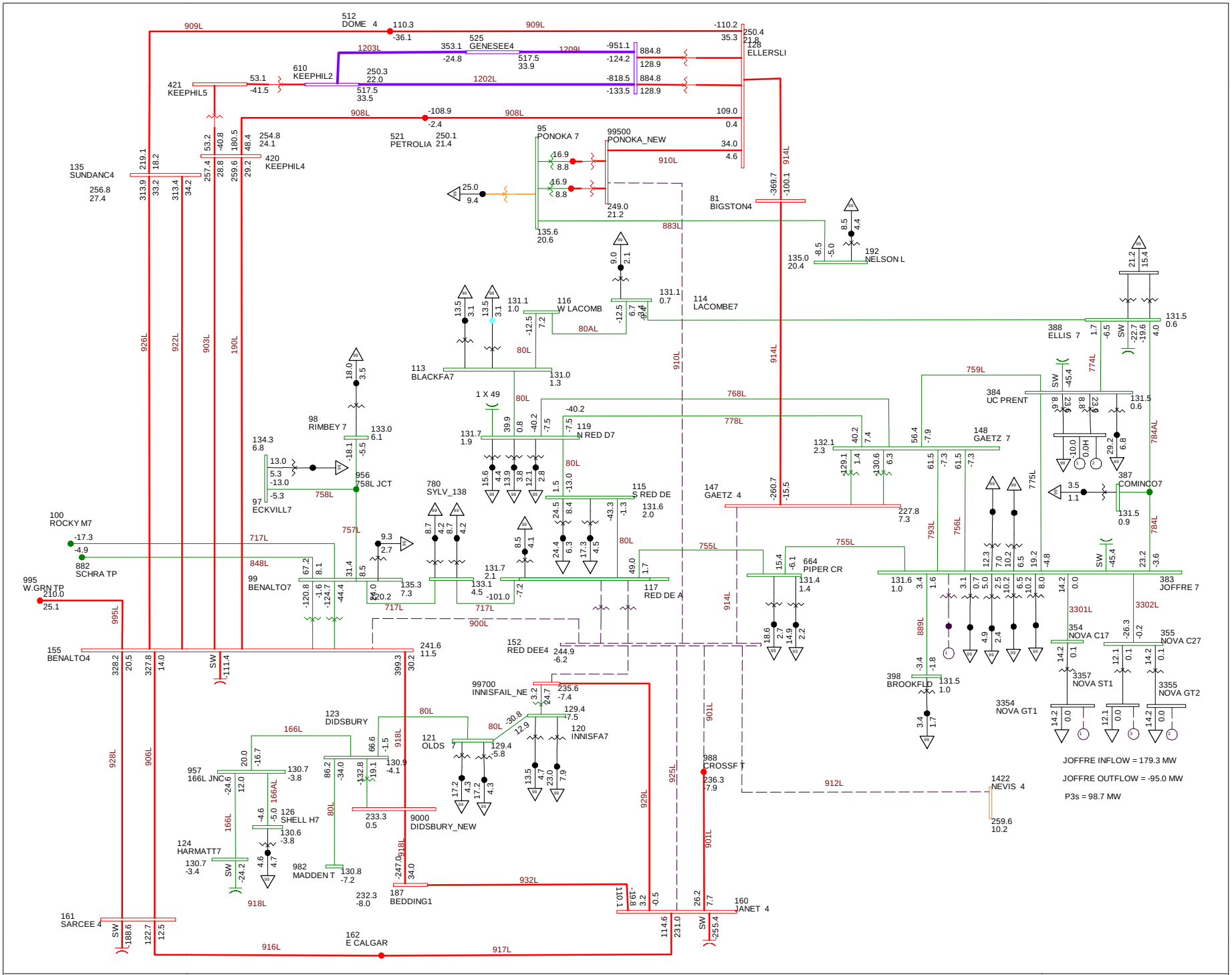
RED DEER REGION STUDY

2012 WINTER PEAK BASE CASE REVISION 6.5

FIG 2012-ALT2-LOAD-WP-D8-2(NOVA OFF): 138 KV LINES AND TRANSFORMER AT SUBSTATION RED DEER 63S-B OUTAGE
WED, MAR 02 2011 10:51

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-691



RED DEER REGION STUDY

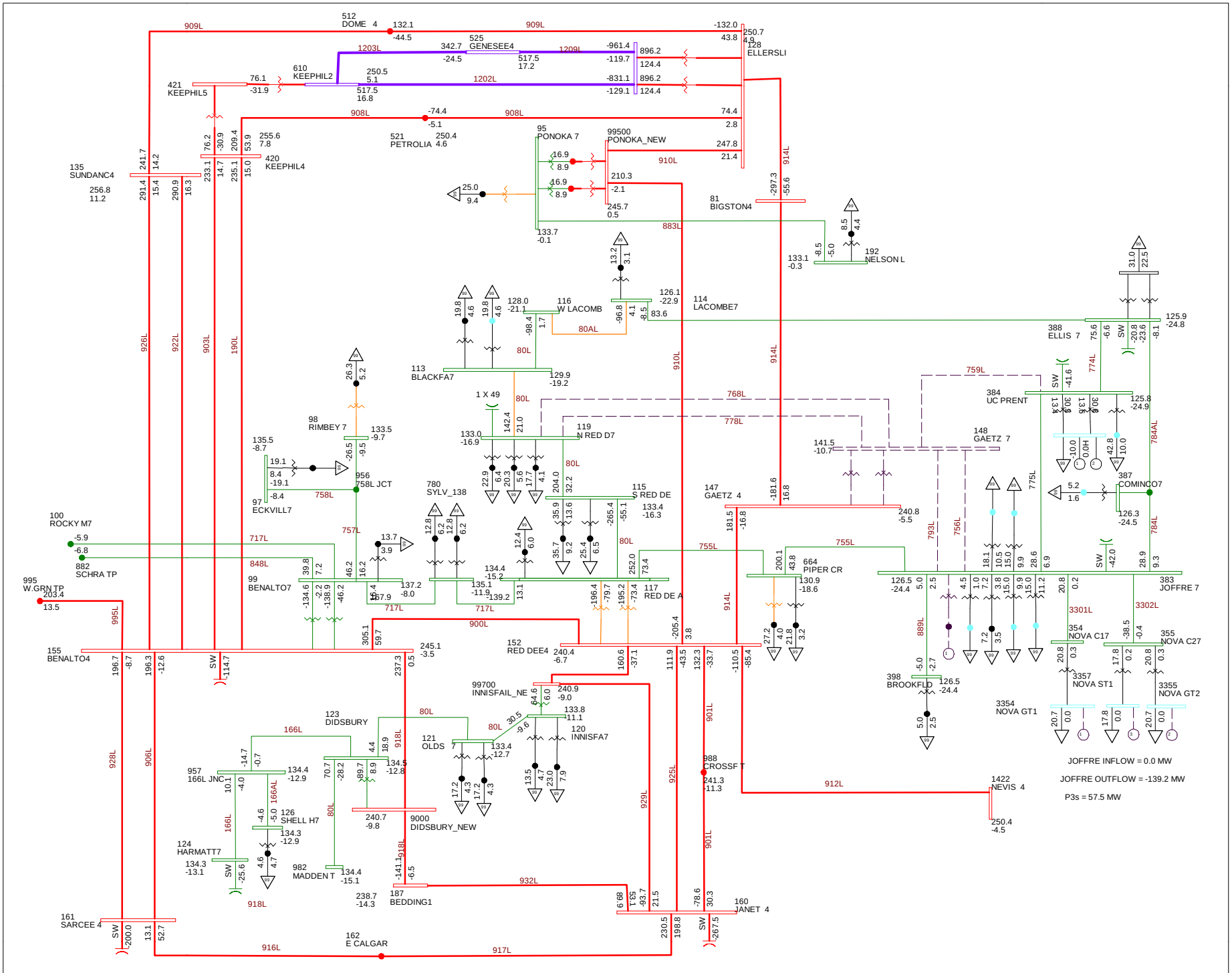
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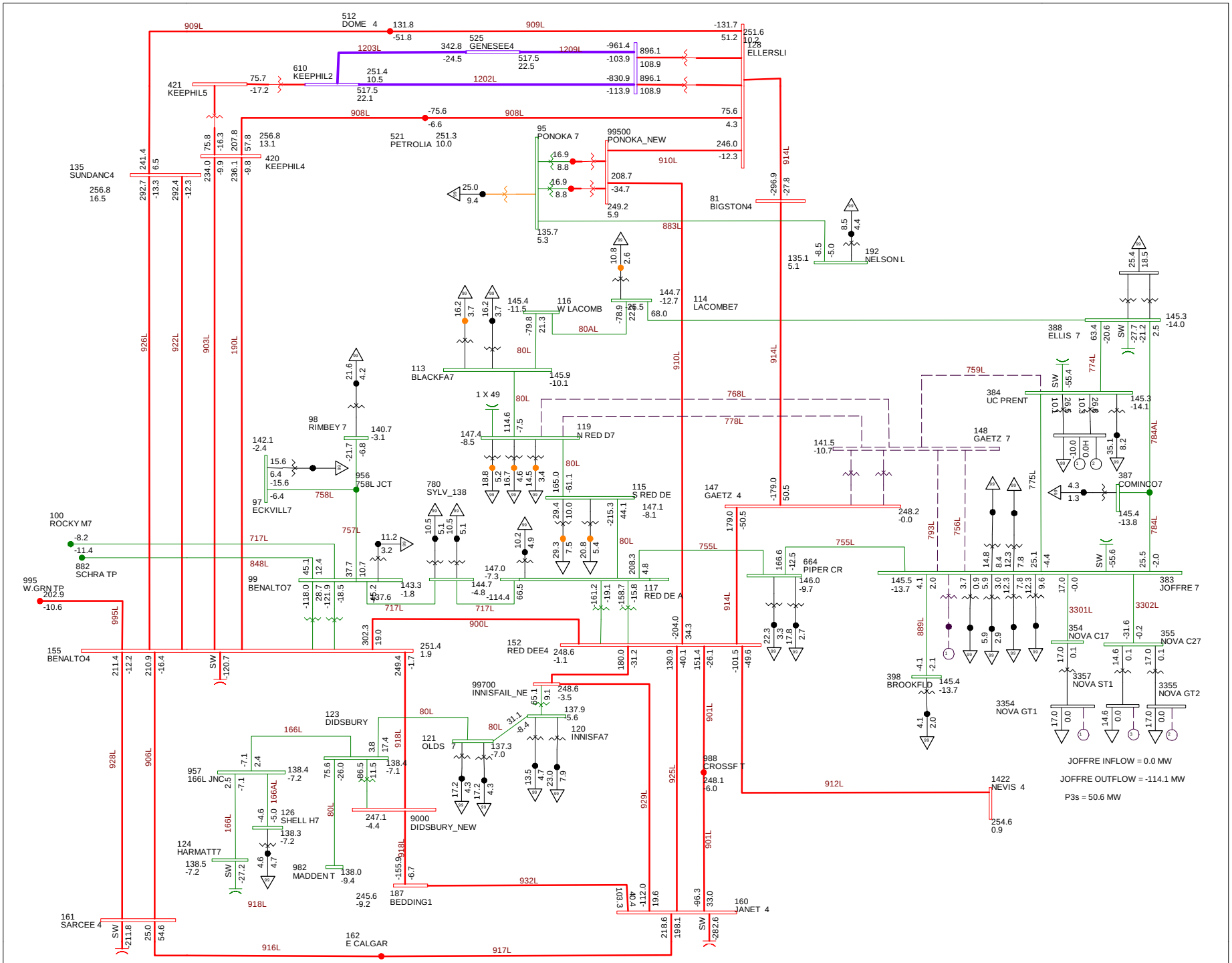
FIG 2012-ALT2-LOAD-WP-D8-3(NOVA OFF): 240 KV LINES AND TRANSFORMER AT SUBSTATION RED DEER 63S OUTAGE WITH RAS
WED, MAR 02 2011 10:51

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR

<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-692


512
DOME 4
132.1
-44.5
909L
-132.0
43.8
250.7
4.9
128
ELLERSLI
525
GENESEE4
342.7
-24.5
1203L
1209L
517.5
17.2
-961.4
-119.7
896.2
124.4
610
KEEPHIL2
250.5
5.1
517.5
16.8
1202L
-831.1
-129.1
896.2
124.4
421
KEEPHIL5
76.1
-31.9
908L
-74.4
-5.1
908L
74.4
2.8
521
PETROLIA
250.4
4.6
95
PONOKA 7
99500
PONOKA_NEW
247.8
21.4
910L
914L
16.9
8.9
16.9
8.9
210.3
-2.1
245.7
0.5
25.0
9.4
-297.3
-55.6
81
BIGSTON4
883L
133.7
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8.5
4.4
133.1
-0.3
8.5
-5.0
192
NELSON L
135
SUNDANC4
256.8
11.2
241.7
14.2
291.4
15.4
290.9
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14.7
209.4
53.9
255.6
7.8
235.1
15.0
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922L
903L
190L
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3.1
126.1
-22.9
83.6
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LACOMBE7
128.0
-21.1
116
W LACOMB
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-8.5
80AL
19.8
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19.8
4.6
-98.4
1.7
80L
113
BLACKFA7
129.9
-19.2
910L
914L
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768L
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784AL
774L
775L
793L
756L
784L
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717L
757L
848L
758L
995L
928L
906L
889L
901L
925L
929L
918L
916L
917L
900L
914L
932L
912L
3301L
3302L
3354
NOVA GT1
3355
NOVA GT2
3357
NOVA ST1
JOFFRE INFLOW = 0.0 MW
JOFFRE OUTFLOW = -139.2 MW
P3s = 57.5 MW
388
ELLIS 7
125.9
-24.8
384
UC PRENT
125.8
-24.9
148
GAETZ 7
147
GAETZ 4
240.8
-5.5
-181.6
16.8
141.5
-10.7
387
COMINCO7
126.3
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5.2
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JOFFRE 7
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-24.4
1422
NEVIS 4
250.4
-4.5
988
CROSSFT
241.3
-11.3
664
PIPER CR
130.9
-18.6
200.1
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780
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80L
80L



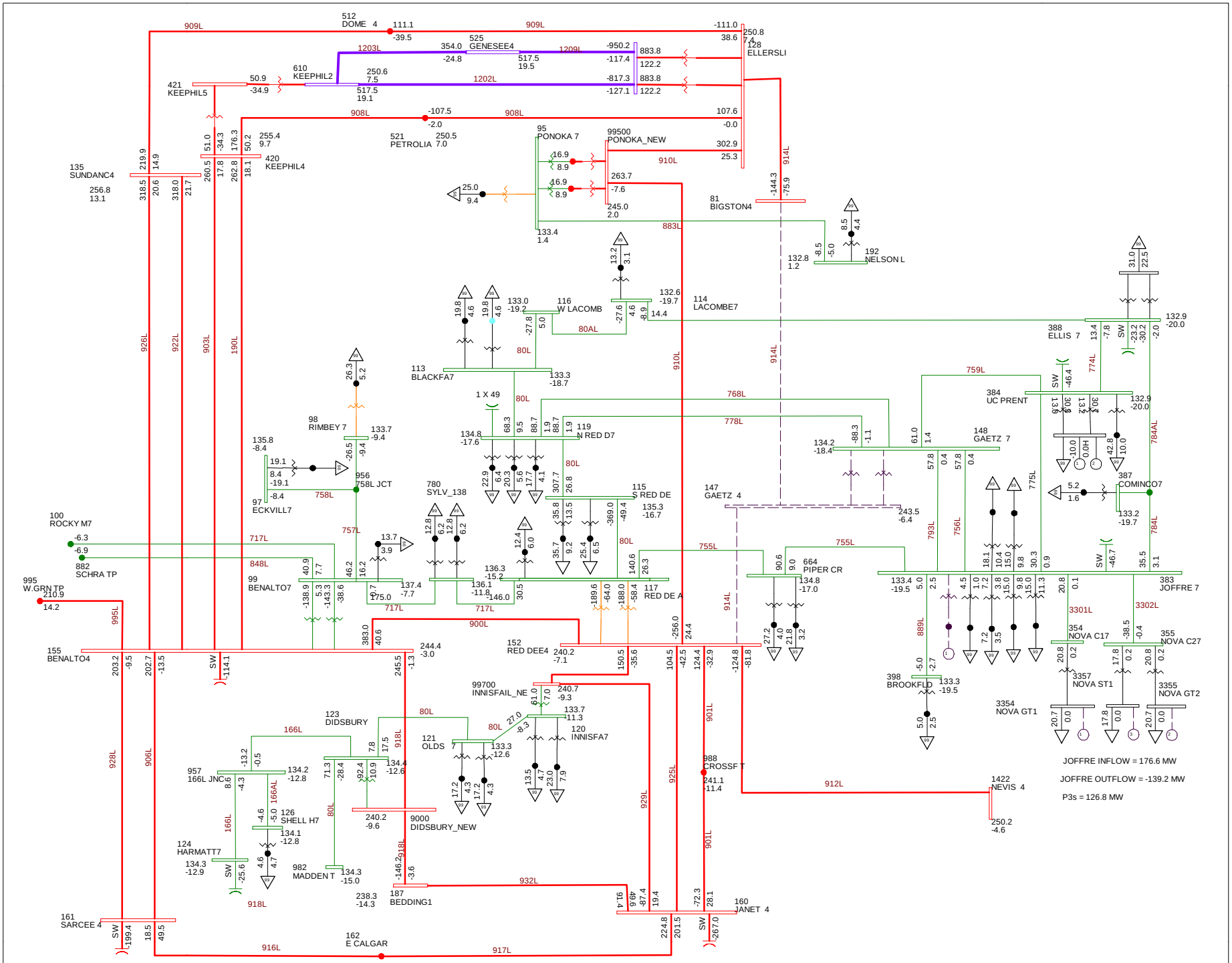
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2012 WINTER PEAK BASE CASE REVISION 6.5

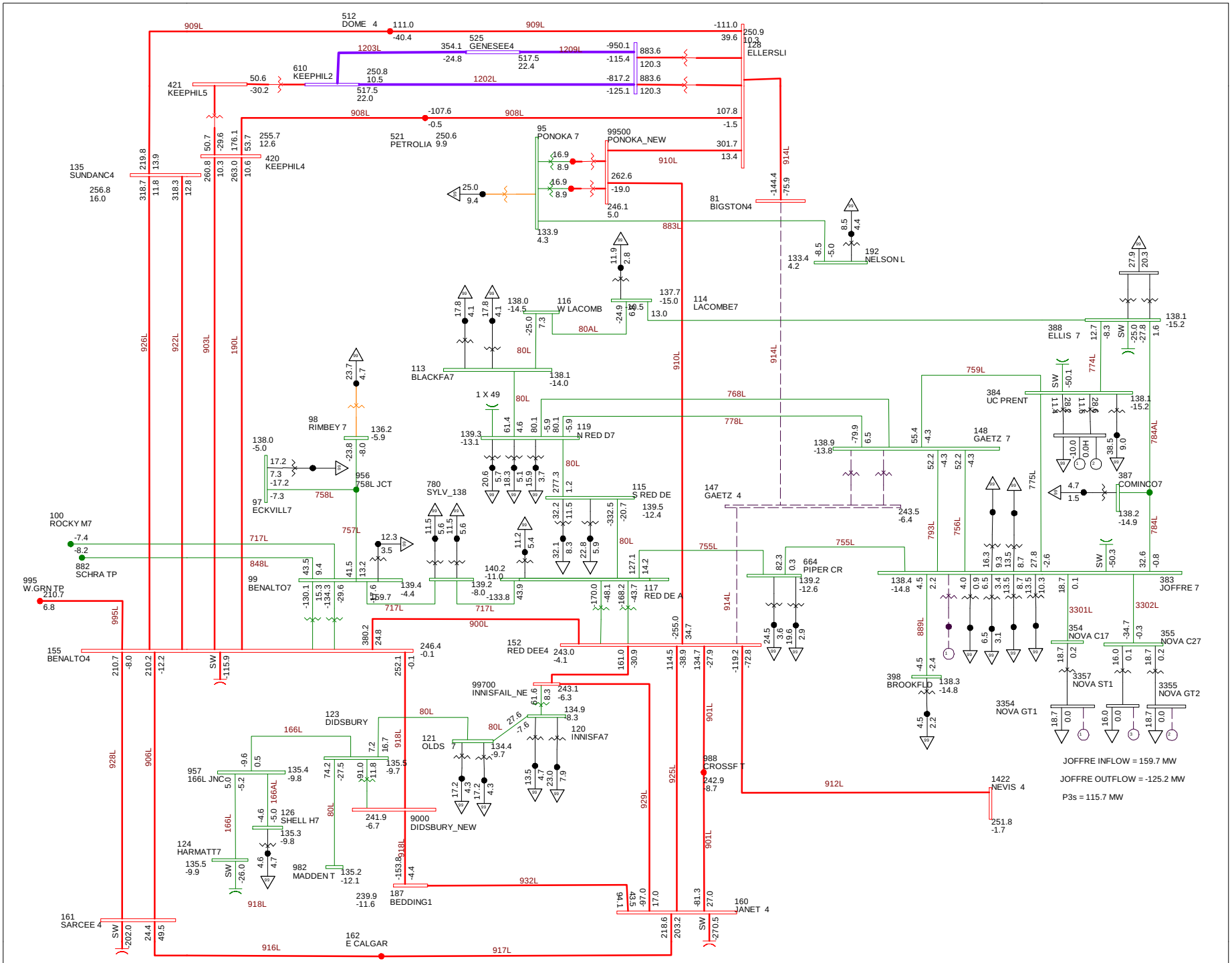
FIG 2012-ALT2-LOAD-WP-D8-4-1(NOVA OFF): 138 KV LINES AND TRANSFORMER AT SUBSTATION GAETZ 87S OUTAGE WITH RAS
WED, MAR 02 2011 10:51

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-694


512
DOME 4
111.1
-39.5
909L
-111.0
38.6
250.8
7.4
128
ELLERSLI
525
GENESEE4
354.0
-24.8
517.5
19.5
1203L
1209L
-950.2
-117.4
883.8
122.2
1202L
-817.3
-127.1
610
KEEPHIL2
250.6
7.5
517.5
19.1
421
KEEPHIL5
50.9
-34.9
908L
-107.5
-2.0
107.6
-0.0
521
PETROLIA
250.5
7.0
95
PONOKA 7
99500
PONOKA_NEW
302.9
25.3
910L
914L
263.7
-7.6
245.0
2.0
133.4
1.4
883L
81
BIGSTON4
-144.3
-75.9
192
NELSON L
132.8
1.2
135
SUNDANC4
256.8
13.1
420
KEEPHIL4
255.4
9.7
926L
922L
903L
190L
116
W LACOMB
133.0
-19.2
132.6
-19.7
114
LACOMBE7
14.4
80AL
80L
113
BLACKFA7
133.3
-18.7
910L
914L
759L
768L
778L
388
ELLIS 7
132.9
-20.0
774L
784AL
384
UC PRENT
132.9
-20.0
98
RIMBEY 7
133.7
-9.4
135.8
-8.4
956
758L JCT
758L
97
ECKVILL7
1 X 49
119
N RED D7
134.8
-17.6
148
GAETZ 7
134.2
-18.4
61.0
1.4
57.8
0.4
775L
793L
756L
784L
387
COMINCO7
133.2
-19.7
780
SYLV_138
115
S RED DE
135.3
-16.7
147
GAETZ 4
243.5
-6.4
100
ROCKY M7
882
SCHRA TP
717L
848L
757L
99
BENALTO7
137.4
-7.7
775.0
136.3
-15.2
136.1
-11.8
-146.0
755L
664
PIPER CR
134.8
-17.0
383
JOFFRE 7
133.4
-19.5
995
W.GRN TP
210.9
14.2
995L
928L
906L
155
BENALTO4
244.4
-3.0
900L
152
RED DEE4
240.2
-7.1
-256.0
24.4
914L
889L
3301L
3302L
354
NOVA C17
355
NOVA C27
3357
NOVA ST1
3355
NOVA GT2
3354
NOVA GT1
398
BROOKFLD
133.3
-19.5
JOFFRE INFLOW = 176.6 MW
JOFFRE OUTFLOW = -139.2 MW
P3s = 126.8 MW
99700
INNISFAIL_NE
240.7
-9.3
123
DIDSBURY
166L
957
166L JNC
134.2
-12.8
121
OLDS 7
133.3
-12.6
120
INNISFA7
133.7
-11.3
901L
988
CROSSFT
241.1
-11.4
912L
1422
NEVIS 4
250.2
-4.6
918L
9000
DIDSBURY_NEW
240.2
-9.6
929L
925L
126
SHELL H7
134.1
-12.8
124
HARMATT7
134.3
-12.9
982
MADDEN T
134.3
-15.0
932L
187
BEDDING1
238.3
-14.3
160
JANET 4
161
SARCEE 4
-199.4
162
E CALGAR
916L
917L
224.8
201.5
-267.0
RED DEER REGION STUDY
2012 WINTER PEAK BASE CASE REVISION 6.5
FIG 2012-ALT2-LOAD-WP-D8-5(NOVA OFF): 240 KV LINES
AND TRANSFORMER AT SUBSTATION GAETZ 87S OUTAGE
WED, MAR 02 2011 10:51
Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000
<=138.000
>500.000
<=34.500
<=240.000
<=500.000

D-2012-695



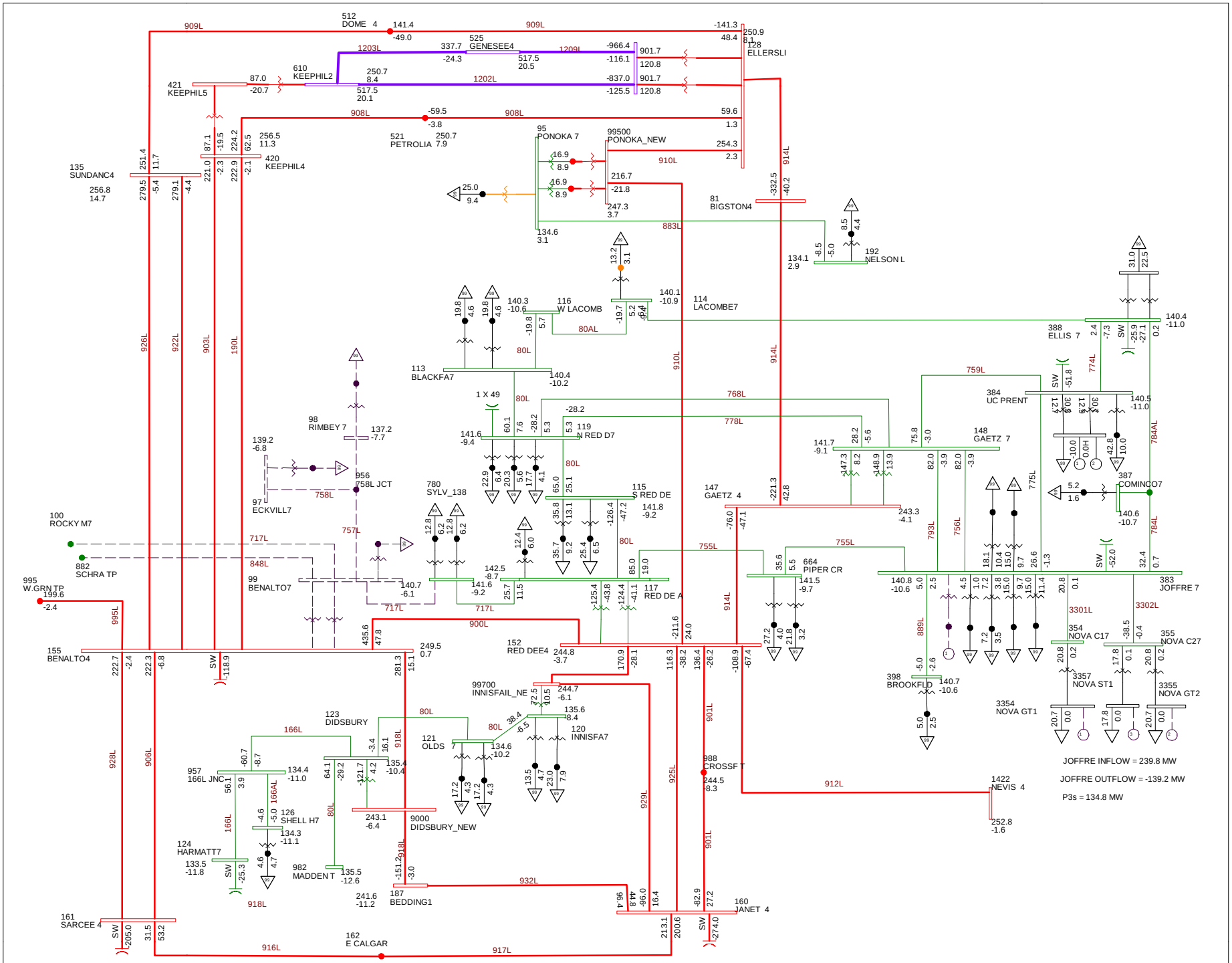
RED DEER REGION STUDY

2012 WINTER PEAK BASE CASE REVISION 6.5

FIG 2012-ALT2-LOAD-WP-D8-5-1(NOVA OFF): 240 KV LINES AND TRANSFORMER AT SUBSTATION GAETZ 87S OUTAGE WITH RAS
WED, MAR 02 2011 10:51

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-696



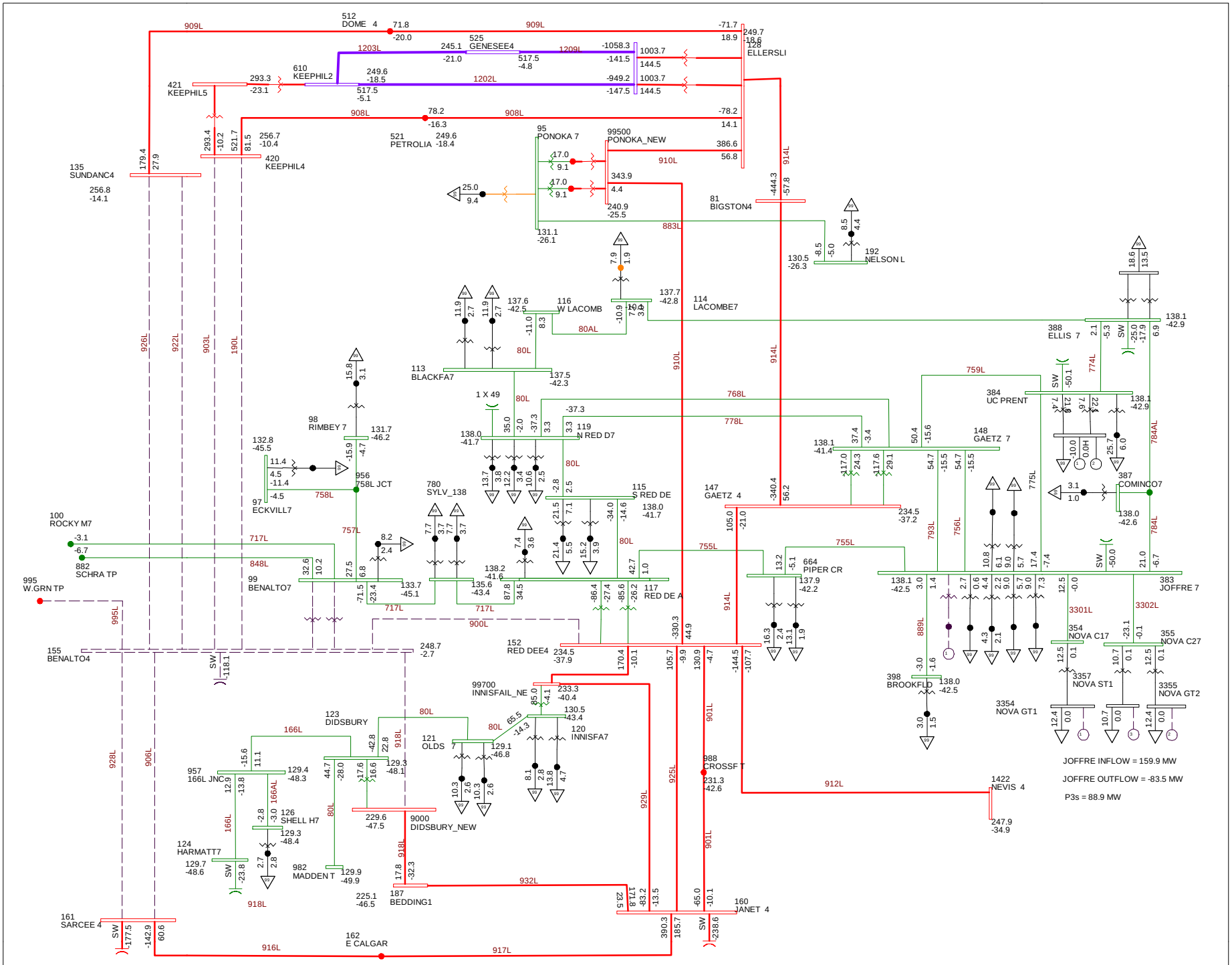
RED DEER REGION STUDY

2012 WINTER PEAK BASE CASE REVISION 6.5

FIG 2012-ALT2-LOAD-WP-D8-6(NOVA OFF): 138 KV LINES AND TRANSFORMER AT SUBSTATION BENALTO 17S OUTAGE
WED, MAR 02 2011 10:51

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-697



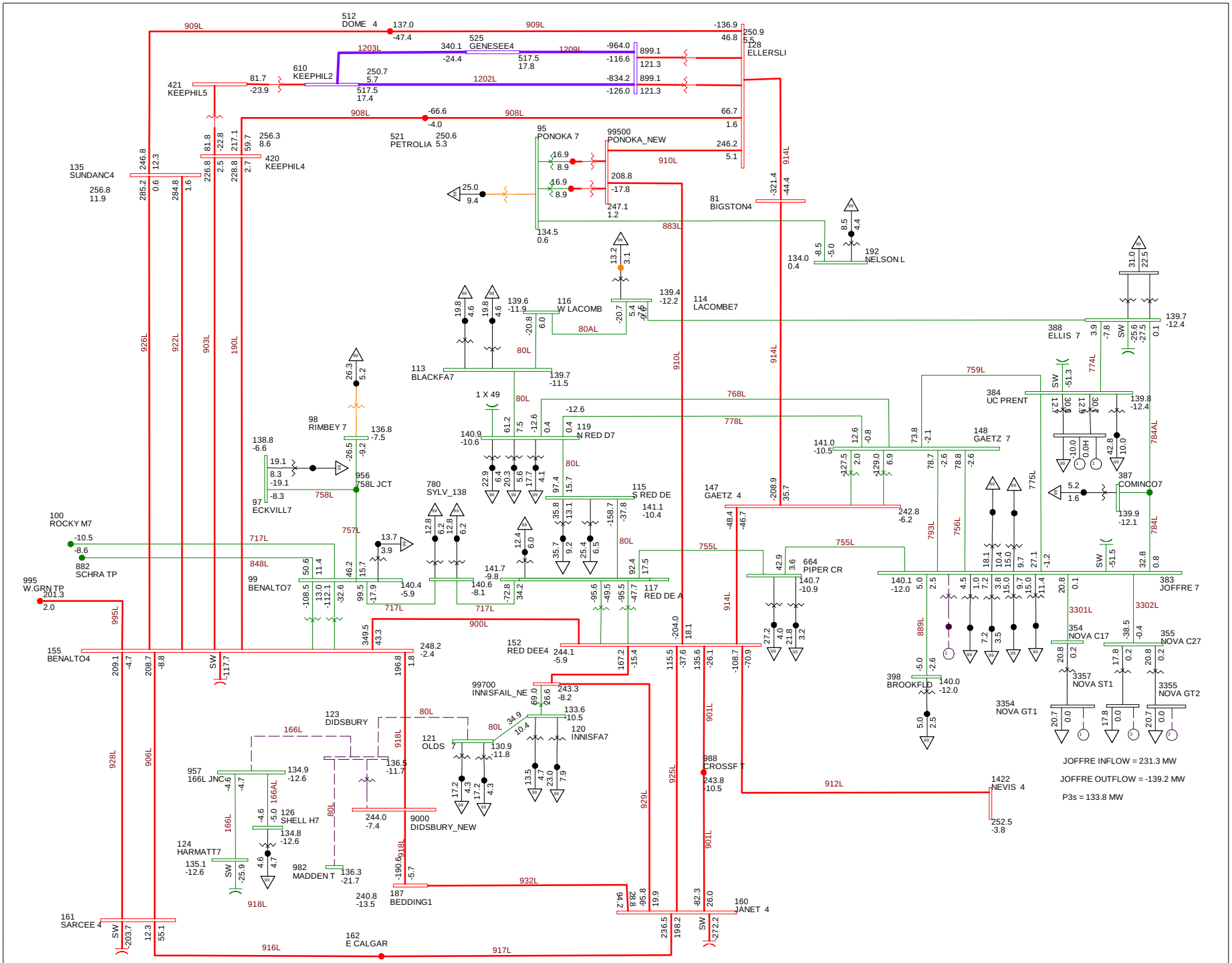
RED DEER REGION STUDY

2012 WINTER PEAK BASE CASE REVISION 6.5

FIG 2012-ALT2-LOAD-WP-D8-7(NOVA OFF): 240 KV LINES AND TRANSFORMER AT SUBSTATION BENALTO 17S OUTAGE WITH RAS
WED, MAR 02 2011 10:51

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-698



RED DEER REGION STUDY

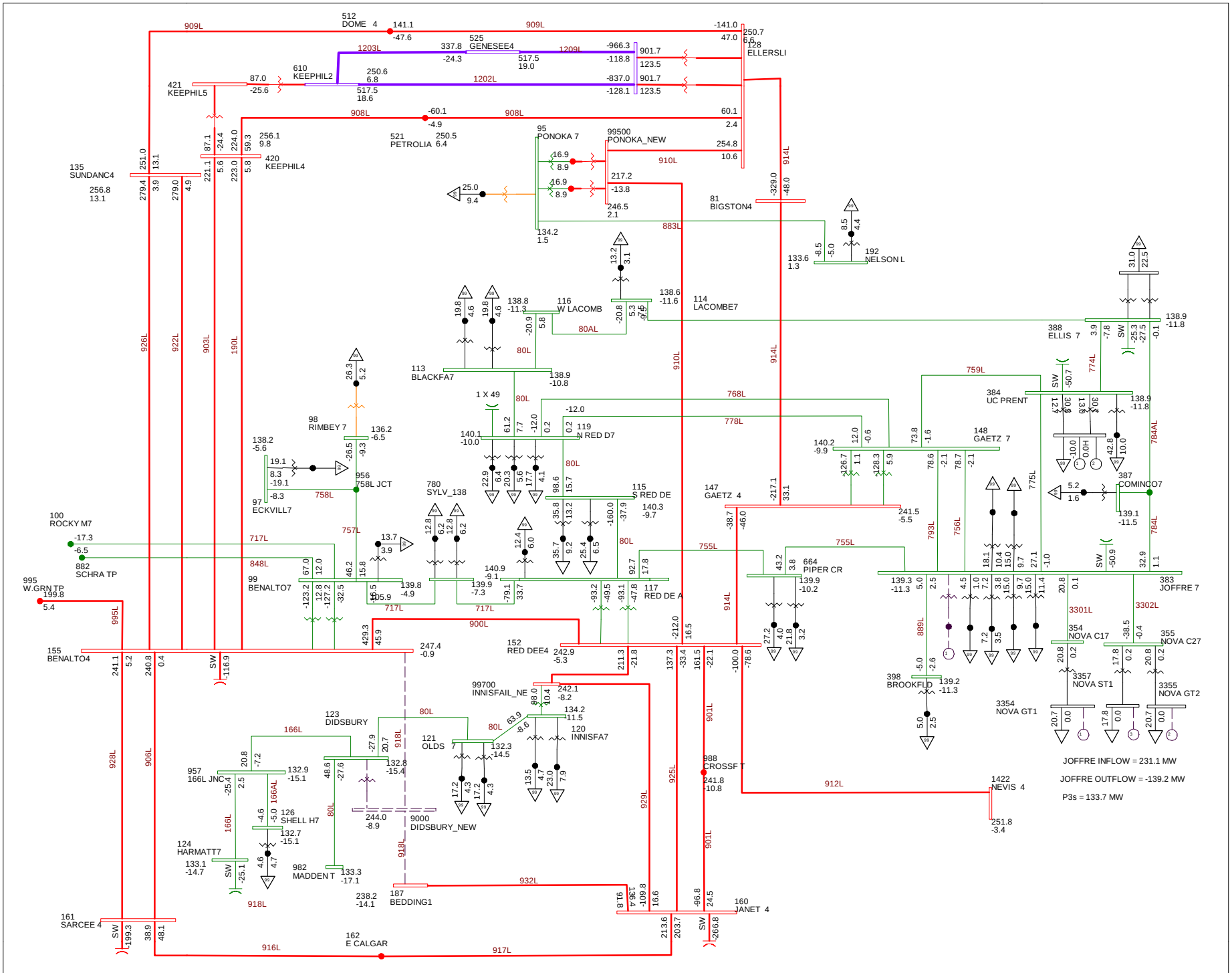
2012 WINTER PEAK BASE CASE REVISION 6.5

FIG 2012-ALT2-LOAD-WP-D8-8(NOVA OFF): 138 KV LINES AND TRANSFORMER AT SUBSTATION DIDSBURY (152S) OUTAGE
WED, MAR 02 2011 10:51

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR

<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-699

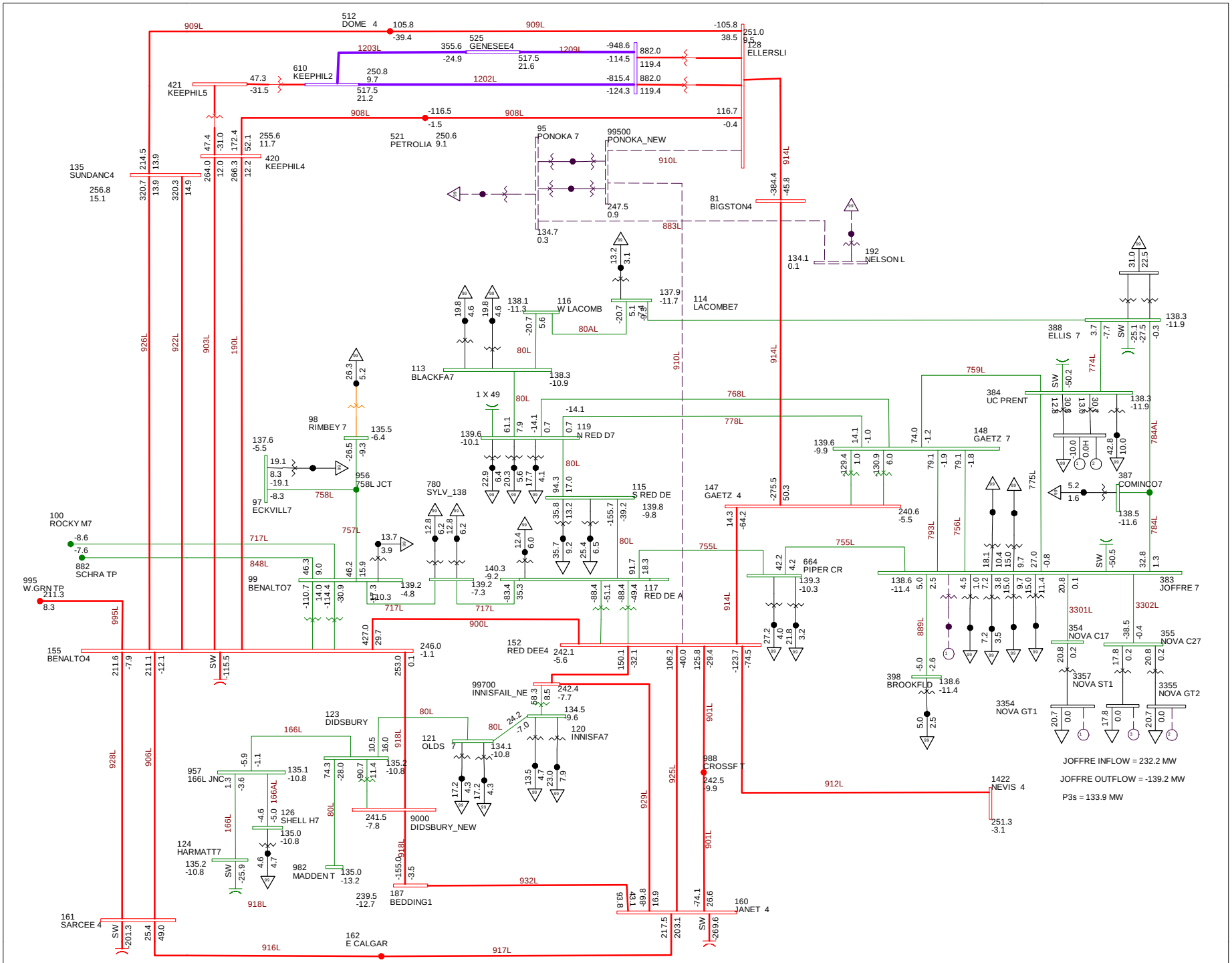


RED DEER REGION STUDY

2012 WINTER PEAK BASE CASE REVISION 6.5

FIG 2012-ALT2-LOAD-WP-D8-9(NOVA OFF): 240 KV LINES AND TRANSFORMER AT SUBSTATION DIDSBURY (152S) OUTAGE
WED, MAR 02 2011 10:51

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000



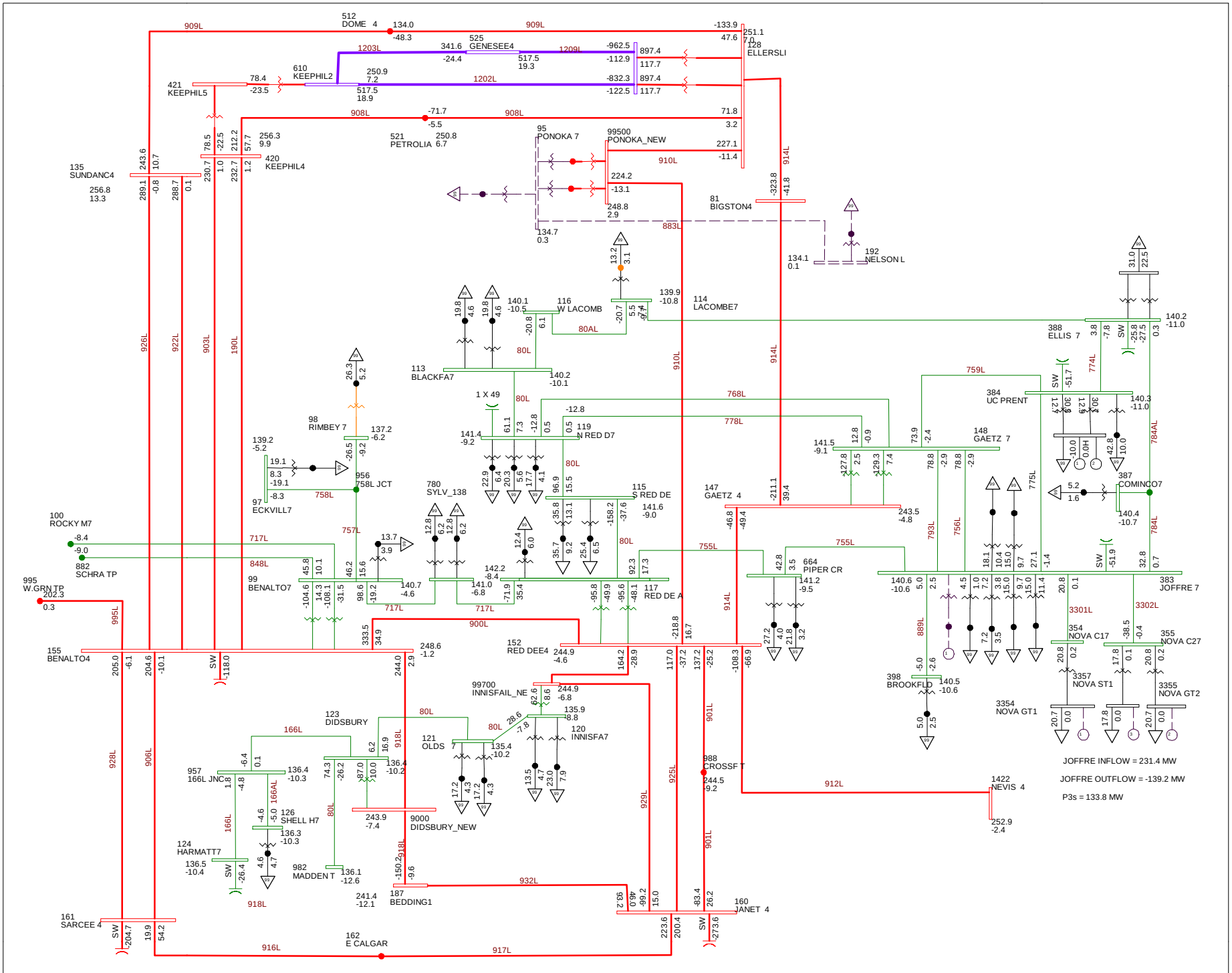
RED DEER REGION STUDY

2012 WINTER PEAK BASE CASE REVISION 6.5

FIG 2012-ALT2-LOAD-WP-D8-10(NOVA OFF): 240 KV LINES AND TRANSFORMER AT SUBSTATION PONOKA 331S OUTAGE
WED, MAR 02 2011 10:51

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-701



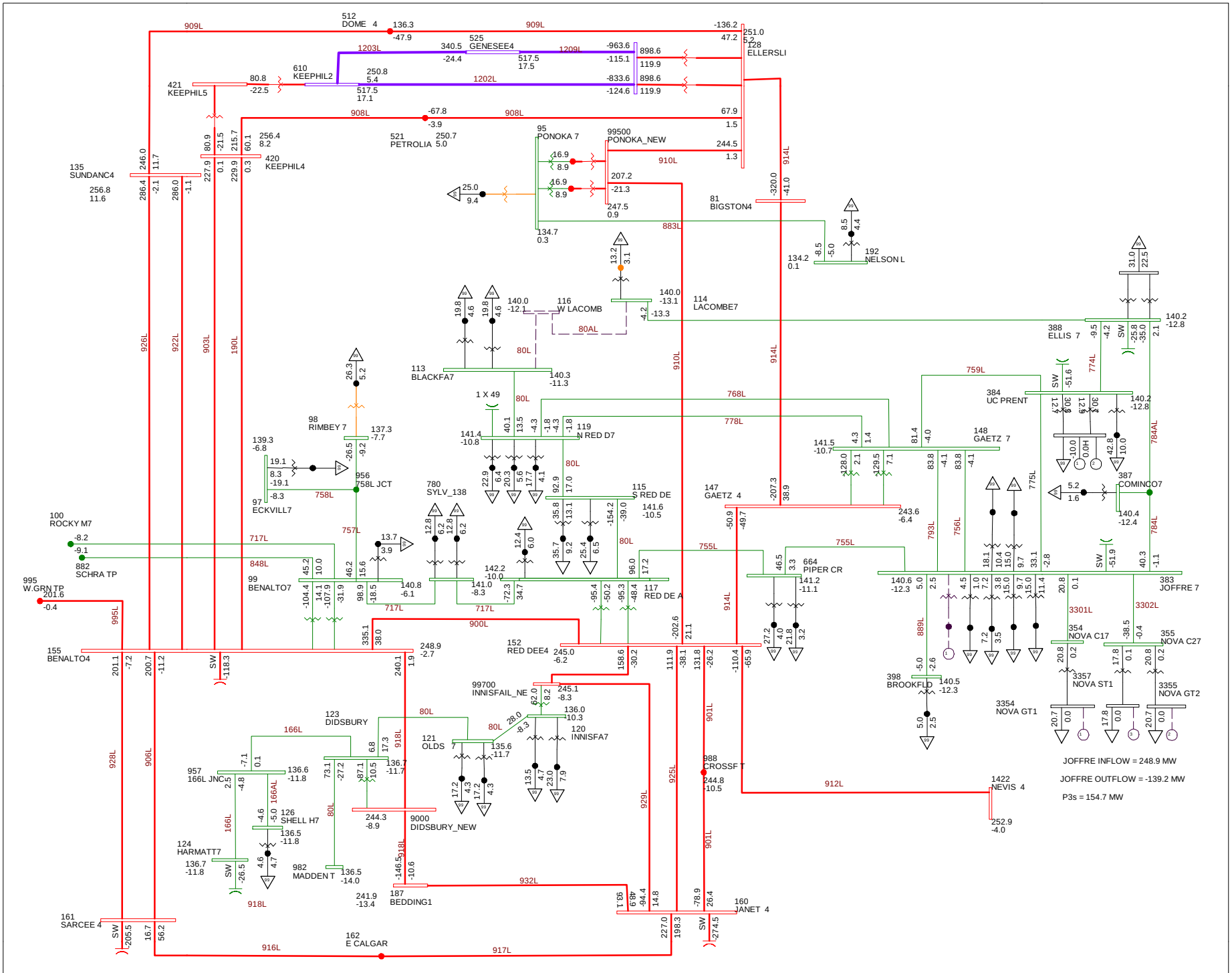
RED DEER REGION STUDY

2012 WINTER PEAK BASE CASE REVISION 6.5

FIG 2012-ALT2-LOAD-WP-D8-11(NOVA OFF): 138 KV LINES AND TRANSFORMER AT SUBSTATION PONOKA 331S OUTAGE
WED, MAR 02 2011 10:51

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-702

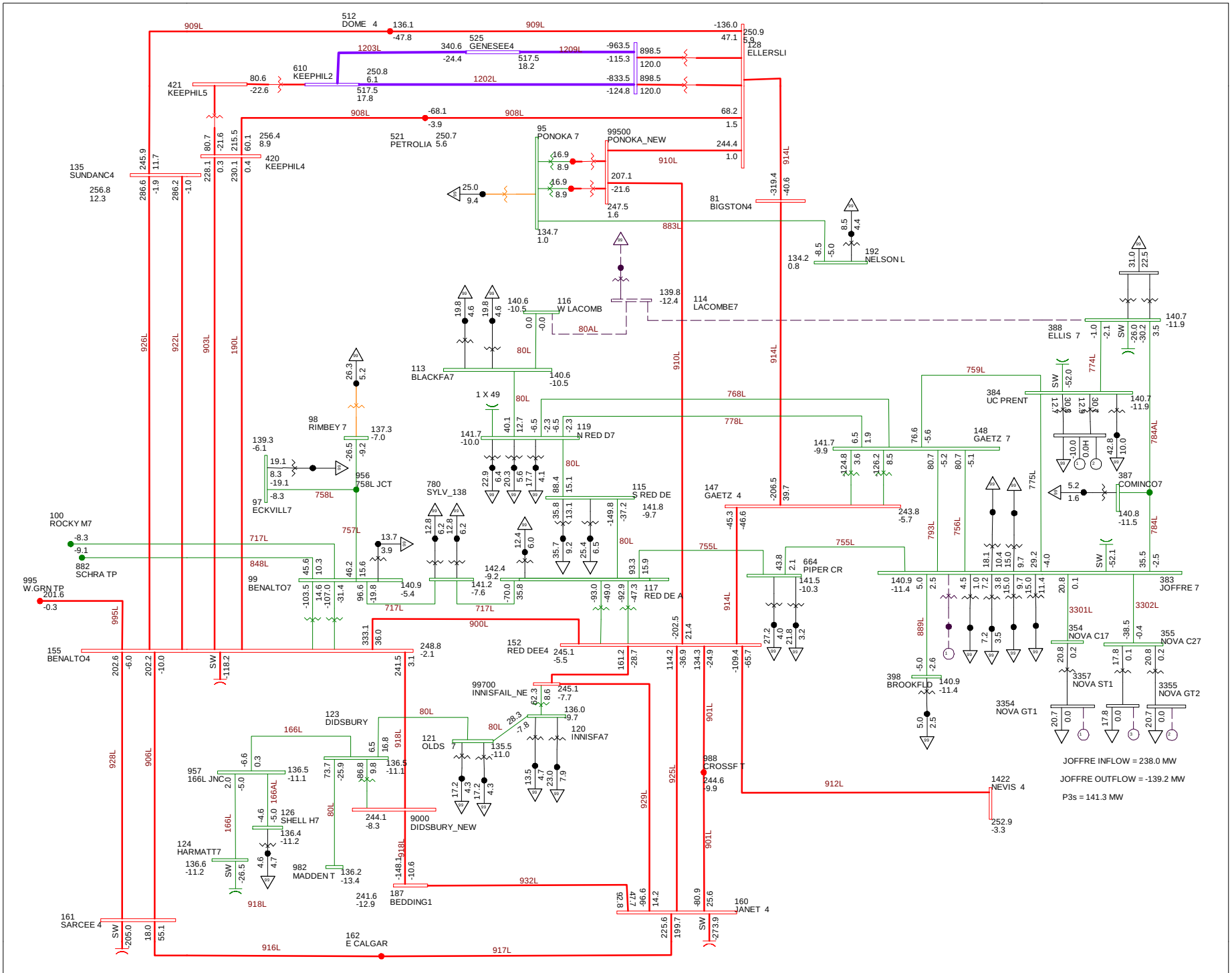


RED DEER REGION STUDY
2012 WINTER PEAK BASE CASE REVISION 6.5

FIG 2012-ALT2-LOAD-WP-D8-12(NOVA OFF):
138 KV SUBSTATION W. LACOMBE 958S OUTAGE
WED, MAR 02 2011 10:51

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-703

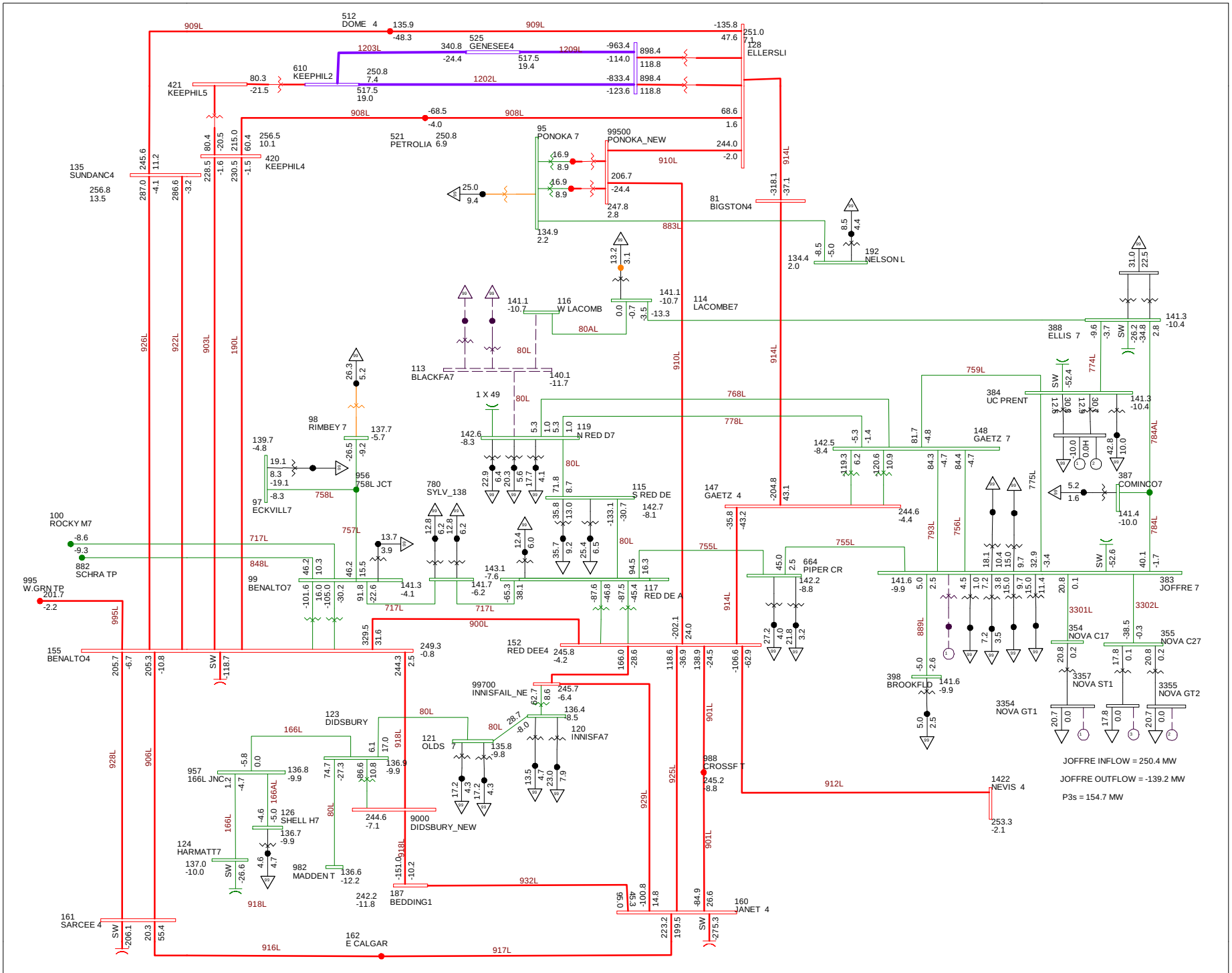


RED DEER REGION STUDY
2012 WINTER PEAK BASE CASE REVISION 6.5

FIG 2012-ALT2-LOAD-WP-D8-13(NOVA OFF):
138 KV SUBSTATION N.E. LACOMBE 212S OUTAGE
WED, MAR 02 2011 10:51

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-704

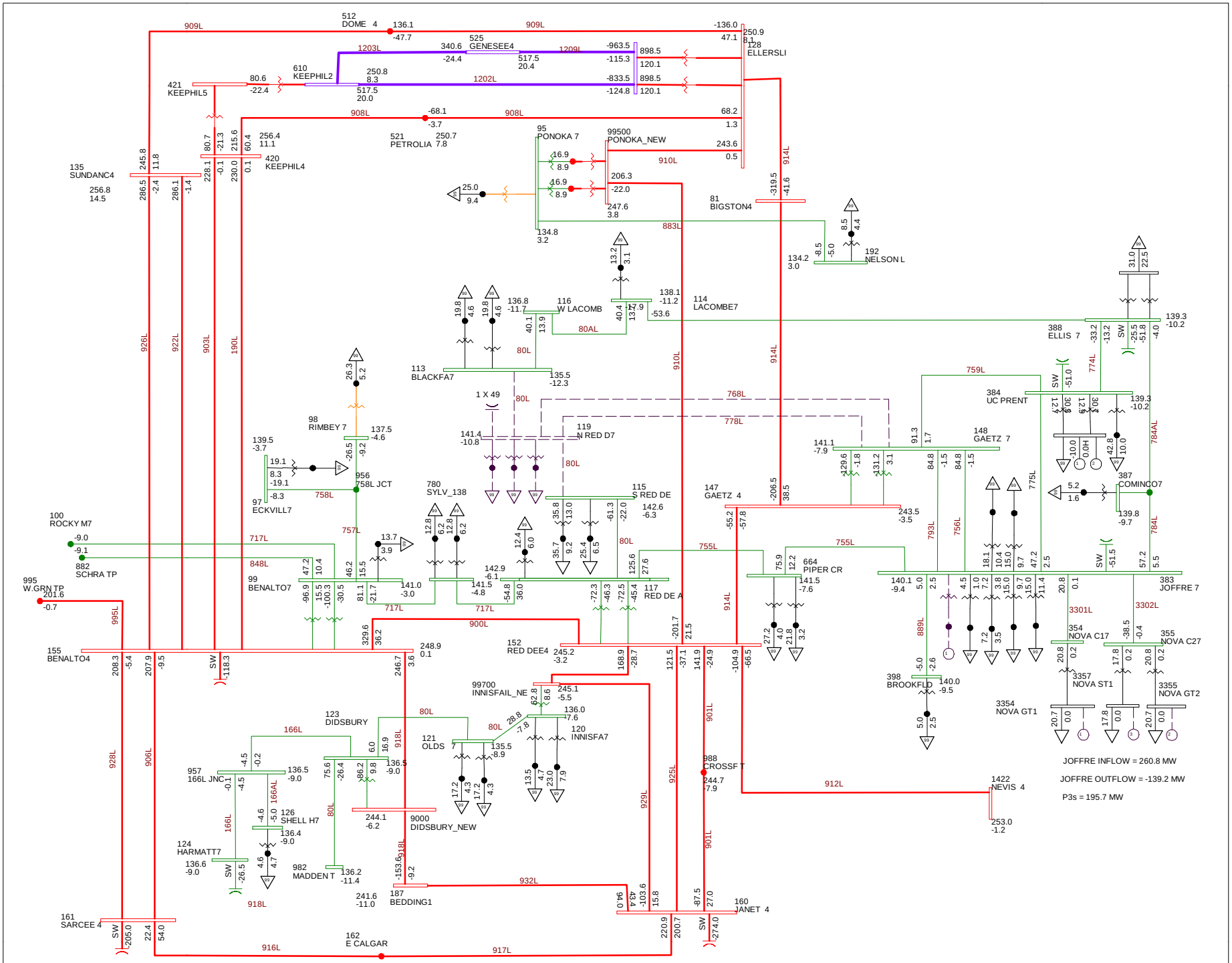


RED DEER REGION STUDY
2012 WINTER PEAK BASE CASE REVISION 6.5

FIG 2012-ALT2-LOAD-WP-D8-14(NOVA OFF):
138 KV SUBSTATION BLACKFALDS 198S OUTAGE
WED, MAR 02 2011 10:51

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-705



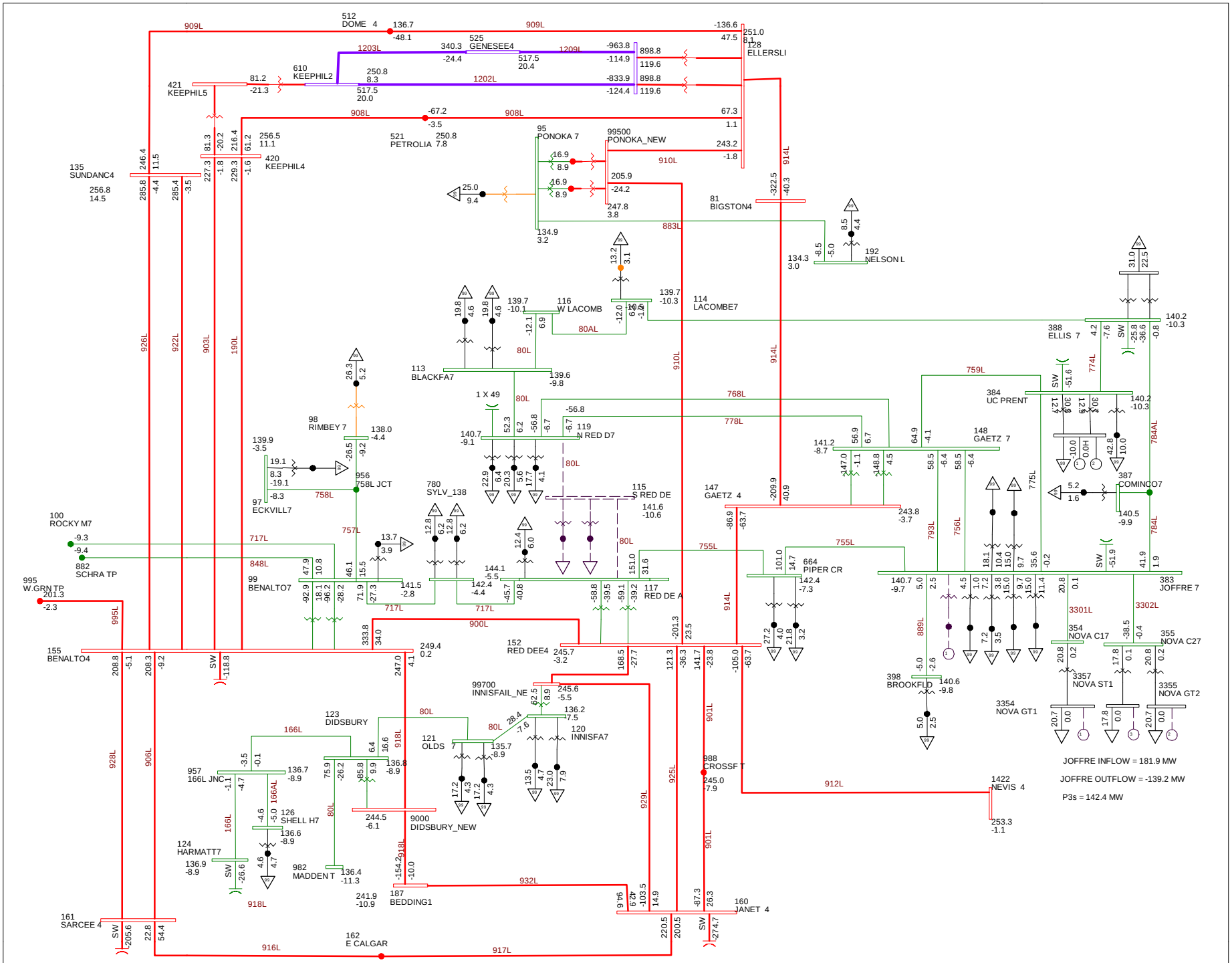
RED DEER REGION STUDY

2012 WINTER PEAK BASE CASE REVISION 6.5

FIG 2012-ALT2-LOAD-WP-D8-15(NOVA OFF):
138 KV SUBSTATION N. RED DEER 217S OUTAGE
WED, MAR 02 2011 10:51

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-706

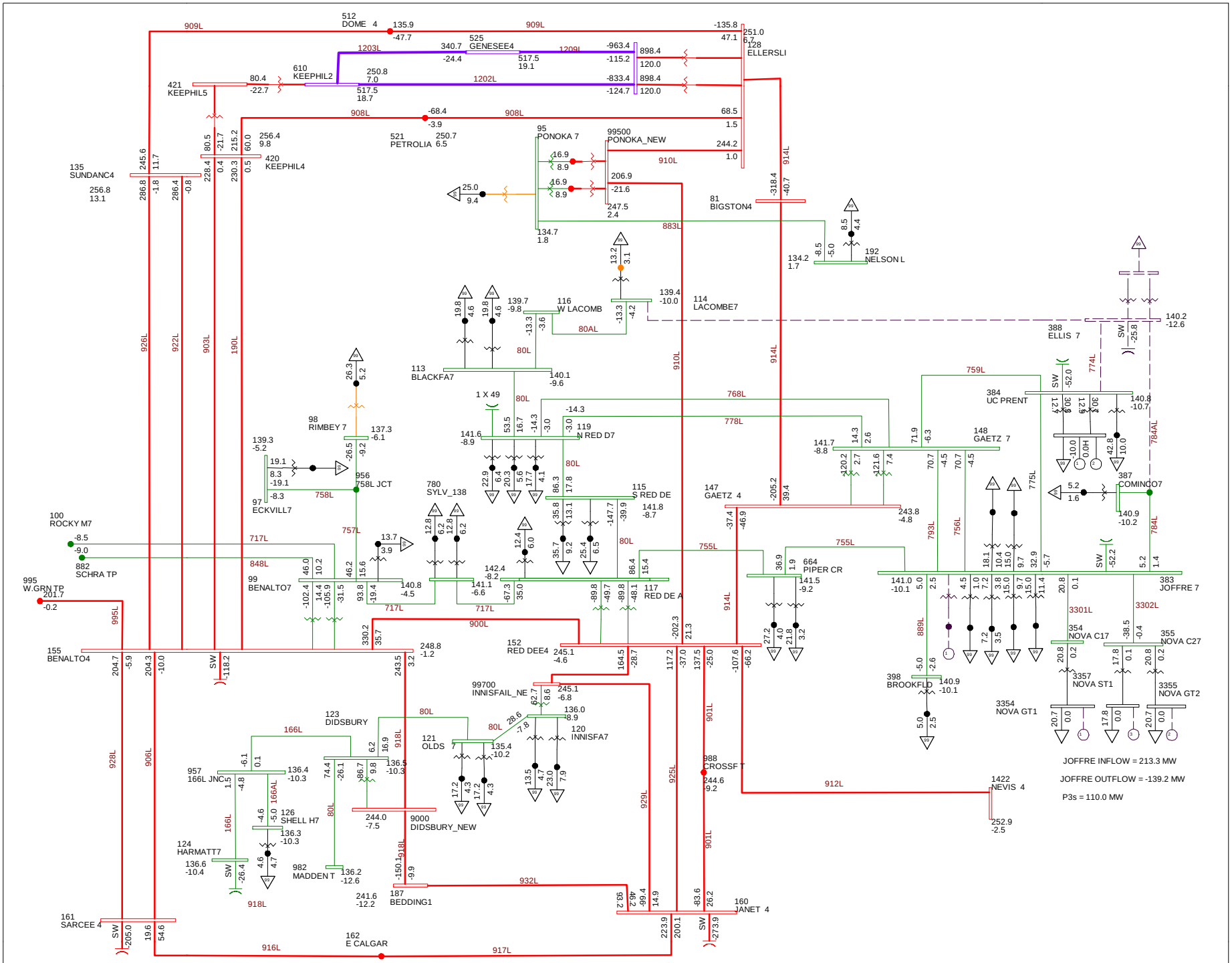


RED DEER REGION STUDY
2012 WINTER PEAK BASE CASE REVISION 6.5

FIG 2012-ALT2-LOAD-WP-D8-16(NOVA OFF):
138 KV SUBSTATION S. RED DEER 194S OUTAGE
WED, MAR 02 2011 10:51

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-707

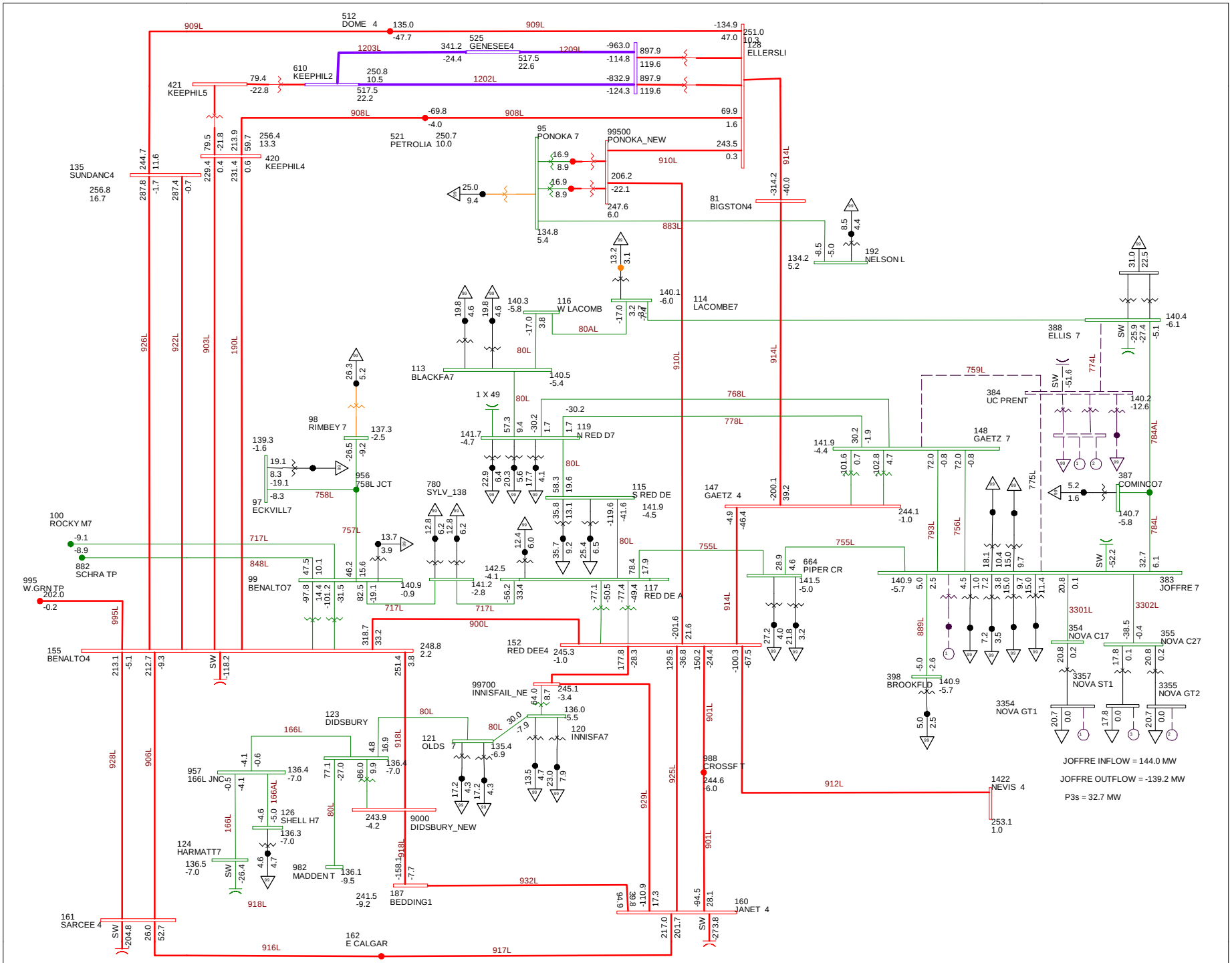


RED DEER REGION STUDY
2012 WINTER PEAK BASE CASE REVISION 6.5

FIG 2012-ALT2-LOAD-WP-D8-17(NOVA OFF):
138 KV SUBSTATION ELLIS 332S OUTAGE
WED, MAR 02 2011 10:51

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-708

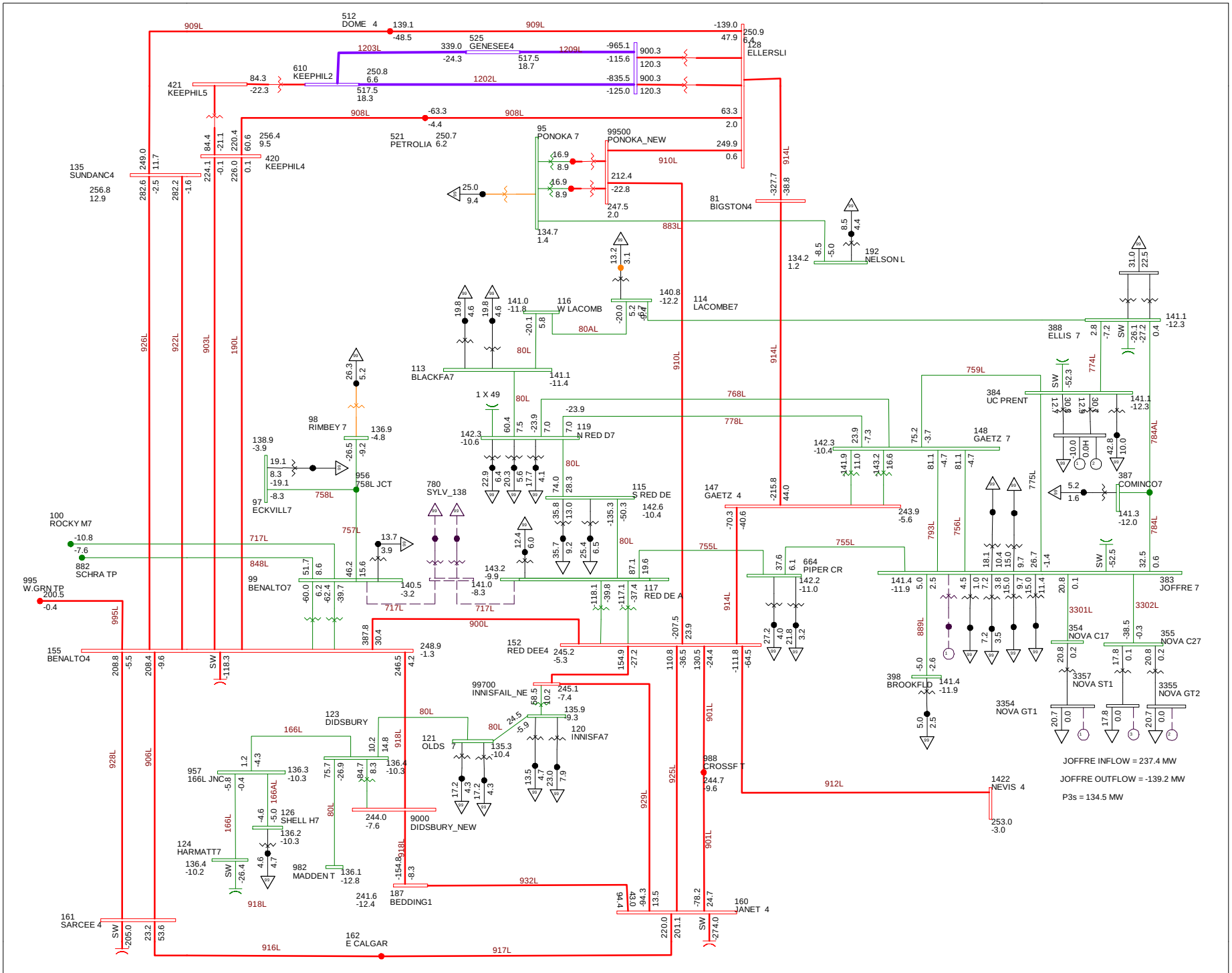


RED DEER REGION STUDY
2012 WINTER PEAK BASE CASE REVISION 6.5

FIG 2012-ALT2-LOAD-WP-D8-18(NOVA OFF):
138 KV SUBSTATION U.C. PRENTISS 276S OUTAGE
WED, MAR 02 2011 10:51

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-709



RED DEER REGION STUDY

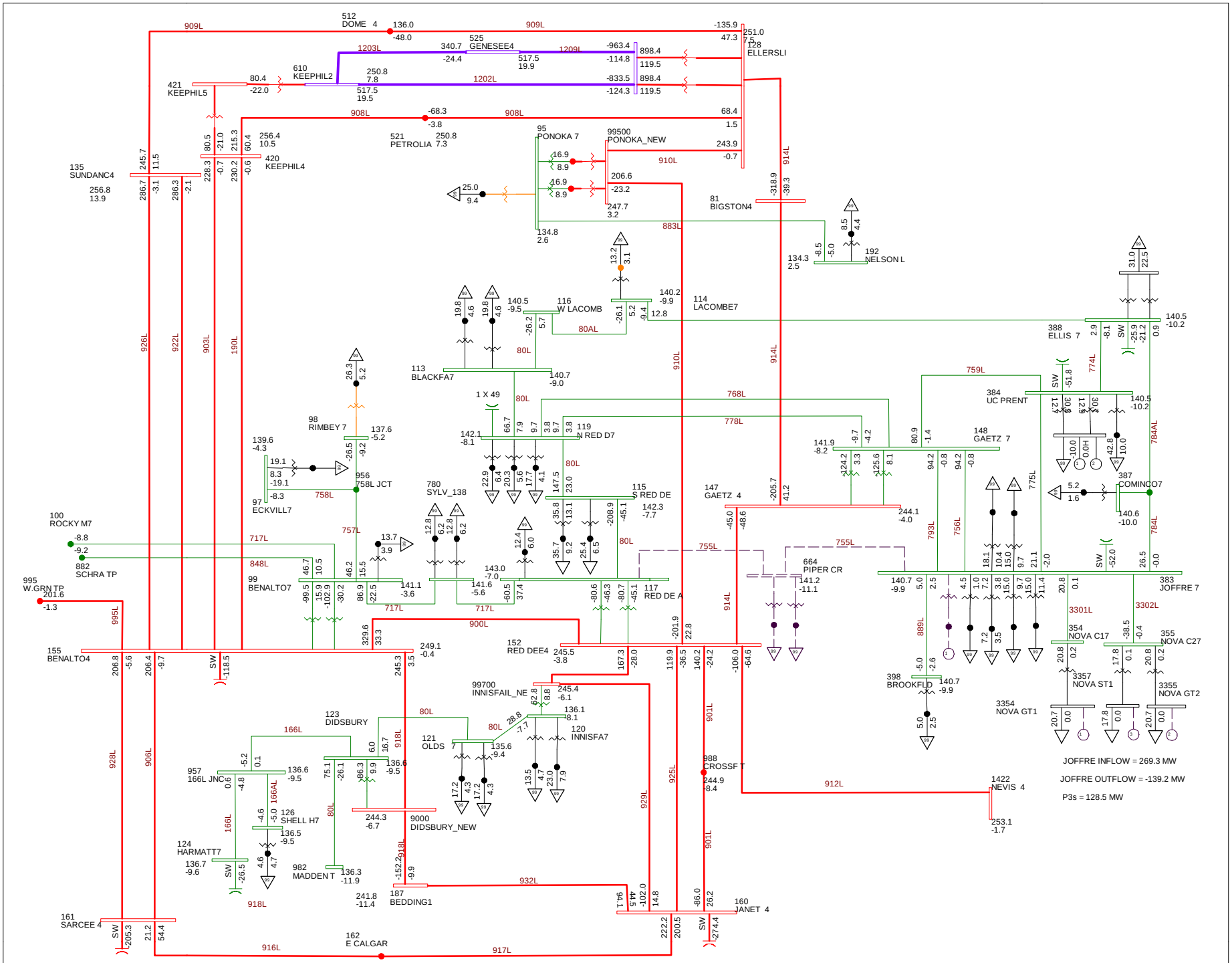
2012 WINTER PEAK BASE CASE REVISION 6.5

FIG 2012-ALT2-LOAD-WP-D8-19(NOVA OFF):
138 KV SUBSTATION SYLVAN LAKE 580S OUTAGE
WED, MAR 02 2011 10:51

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR

<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-710



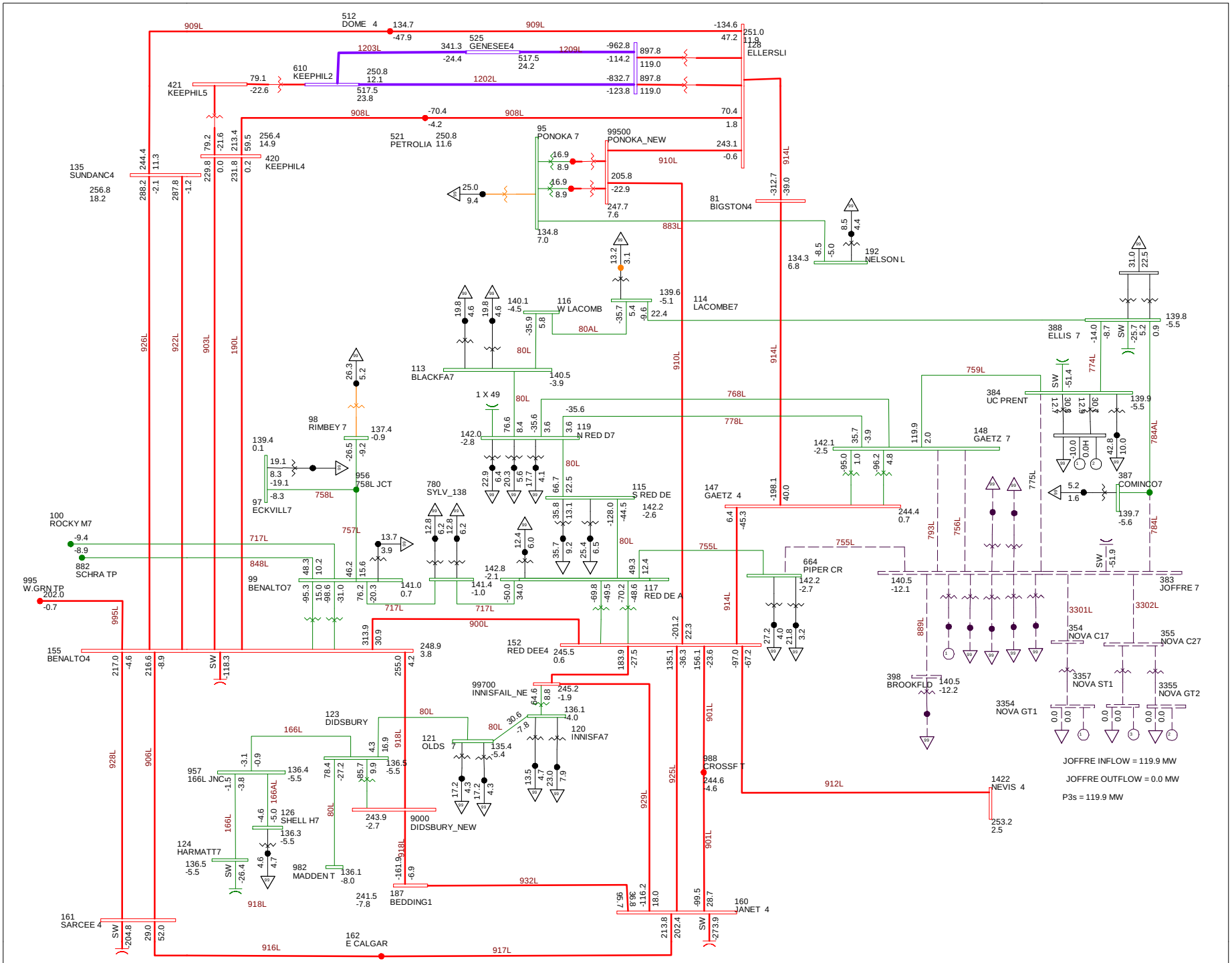
RED DEER REGION STUDY

2012 WINTER PEAK BASE CASE REVISION 6.5

FIG 2012-ALT2-LOAD-WP-D8-20(NOVA OFF):
138 KV SUBSTATION PIPER CREEK 274S OUTAGE
WED, MAR 02 2011 10:51

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-711

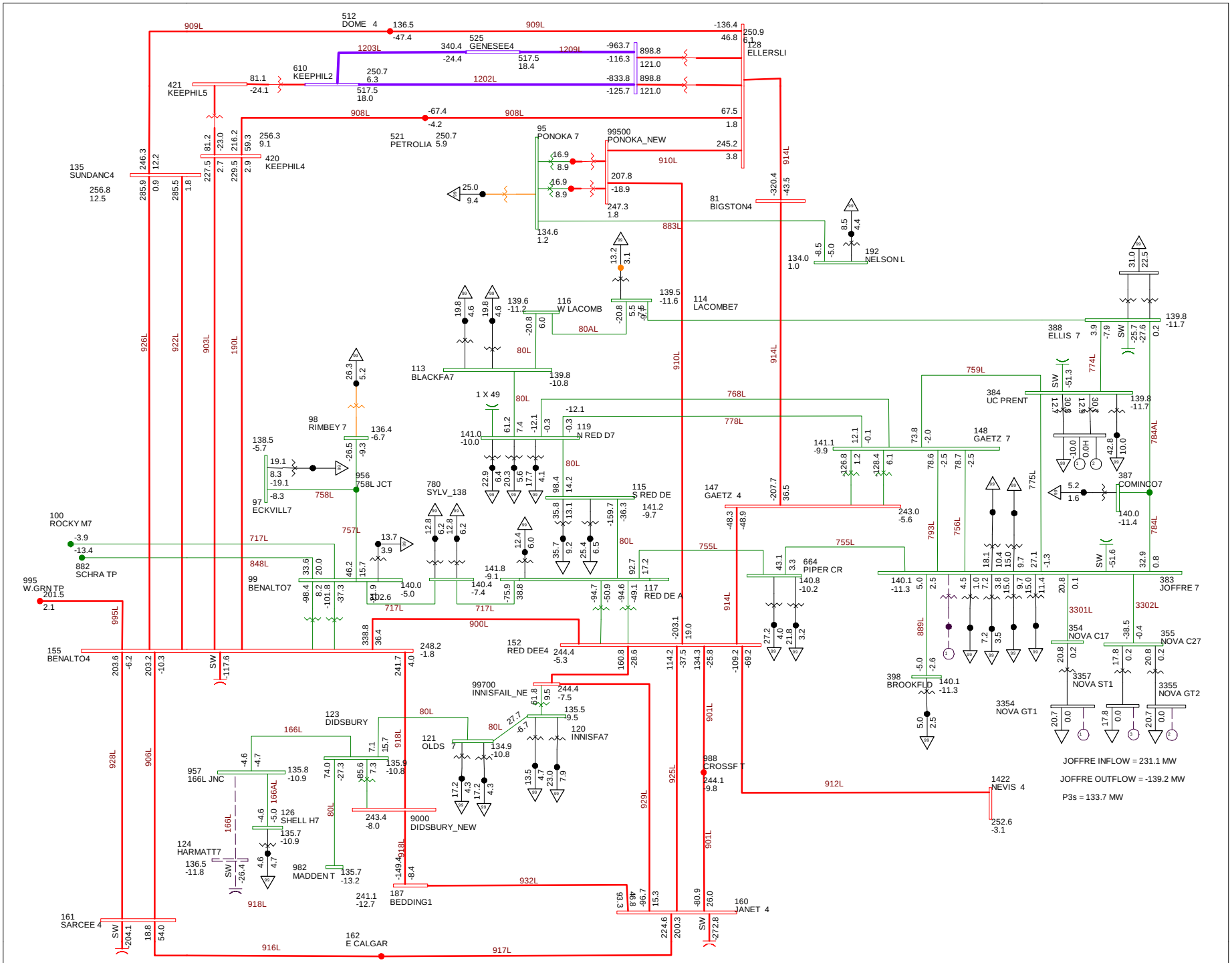


RED DEER REGION STUDY
2012 WINTER PEAK BASE CASE REVISION 6.5

FIG 2012-ALT2-LOAD-WP-D8-21(NOVA OFF):
138 KV SUBSTATION JOFFRE 535S OUTAGE
WED, MAR 02 2011 10:51

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-712

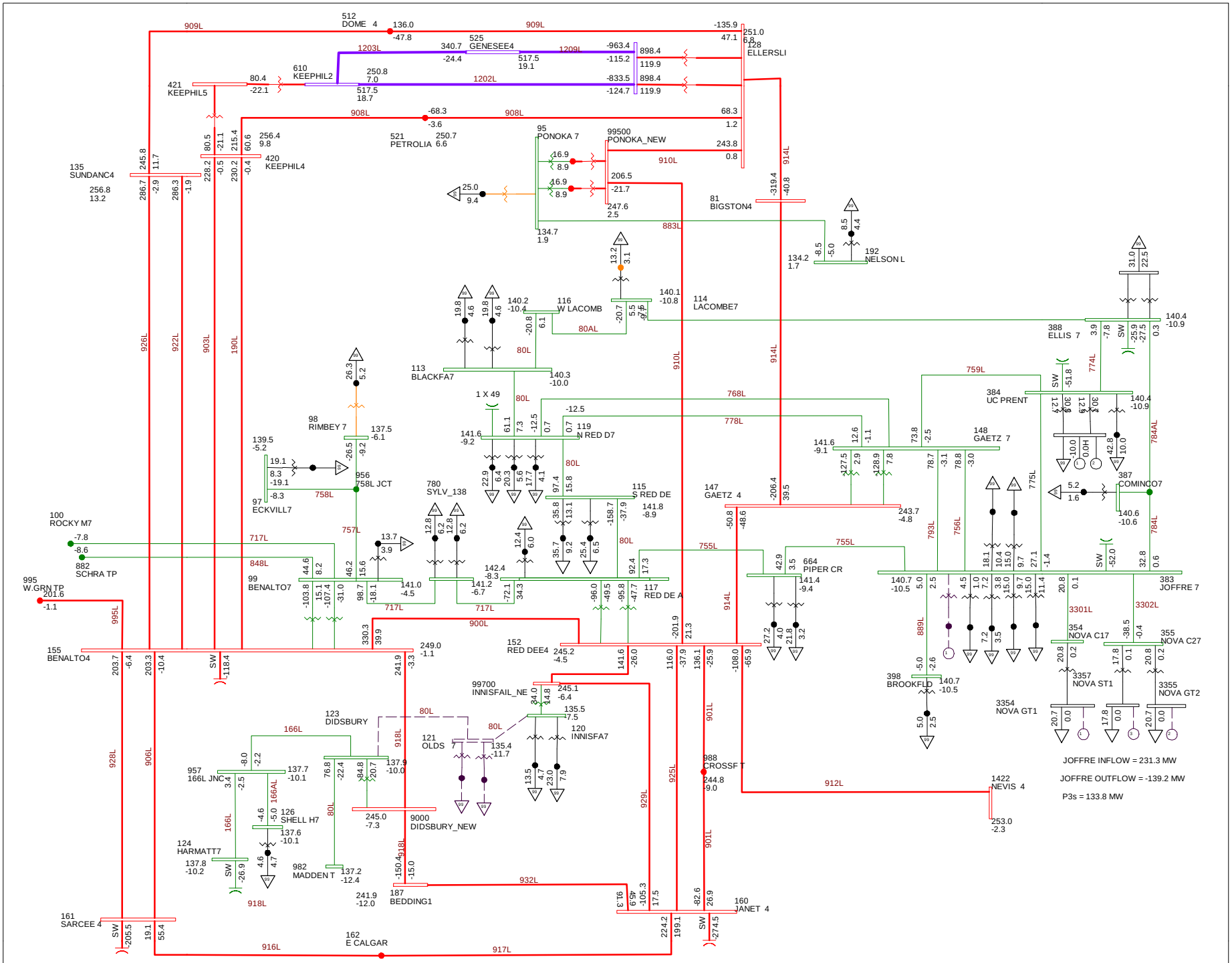


RED DEER REGION STUDY
2012 WINTER PEAK BASE CASE REVISION 6.5

FIG 2012-ALT2-LOAD-WP-D8-22(NOVA OFF):
138 KV SUBSTATION HARMATTAN 256S OUTAGE
WED, MAR 02 2011 10:51

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-713

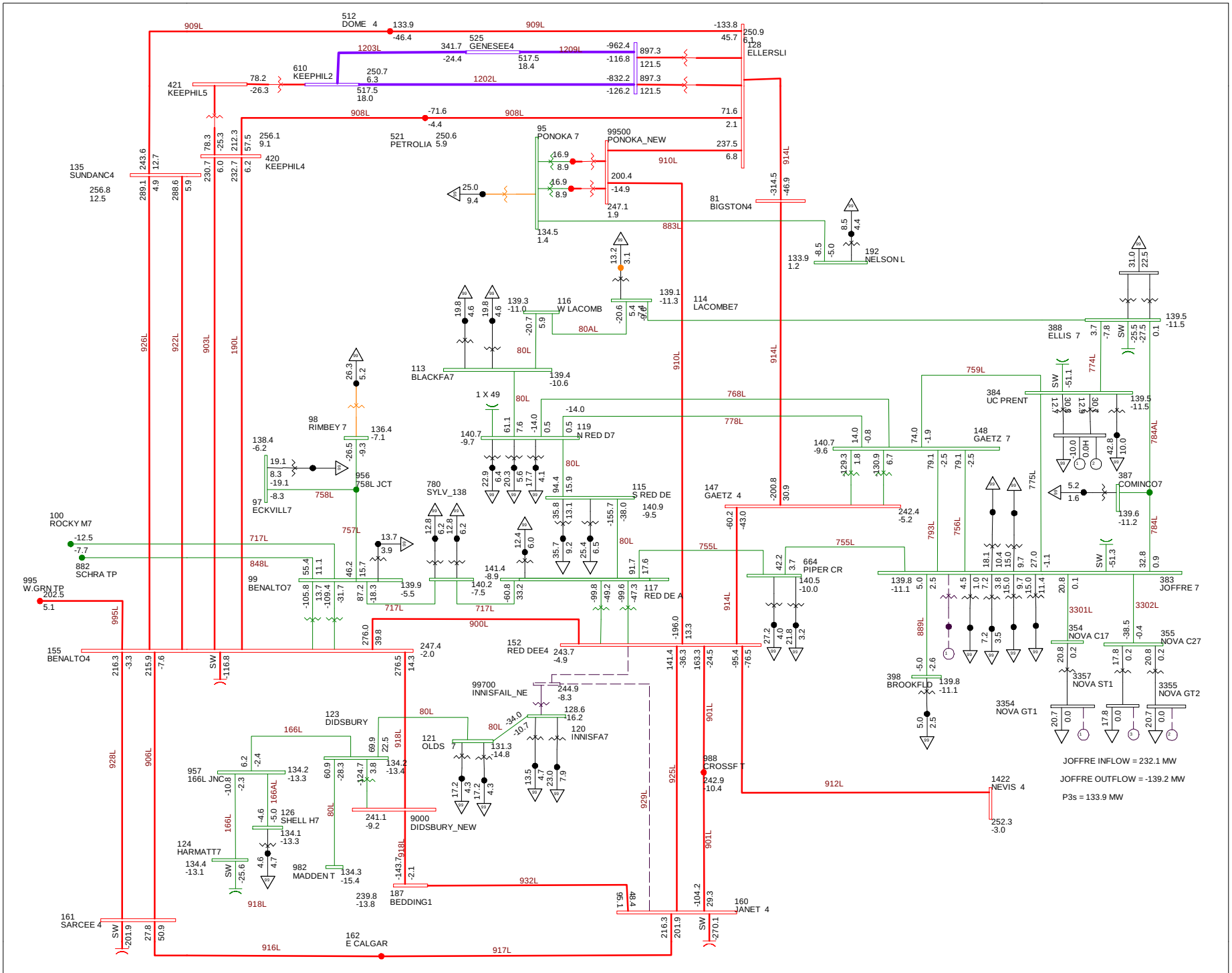


RED DEER REGION STUDY
2012 WINTER PEAK BASE CASE REVISION 6.5

FIG 2012-ALT2-LOAD-WP-D8-23(NOVA OFF):
138 KV SUBSTATION OLDS 55S OUTAGE
WED, MAR 02 2011 10:51

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-714



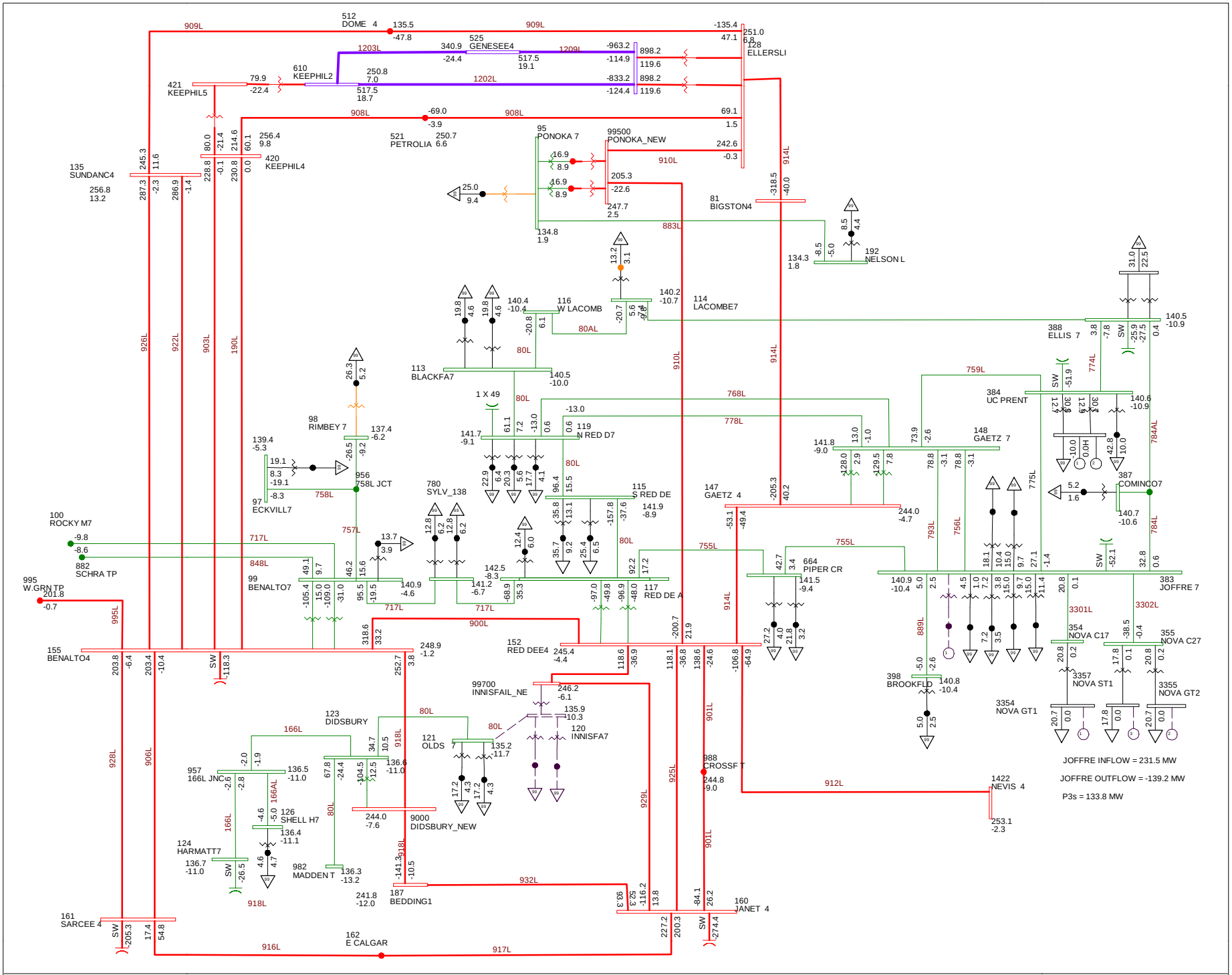
RED DEER REGION STUDY

2012 WINTER PEAK BASE CASE REVISION 6.5

FIG 2012-ALT2-LOAD-WP-D8-24(NOVA OFF): 240 KV LINES AND TRANSFORMER AT SUBSTATION INNISFAIL 214S OUTAGE
WED, MAR 02 2011 10:51

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-715



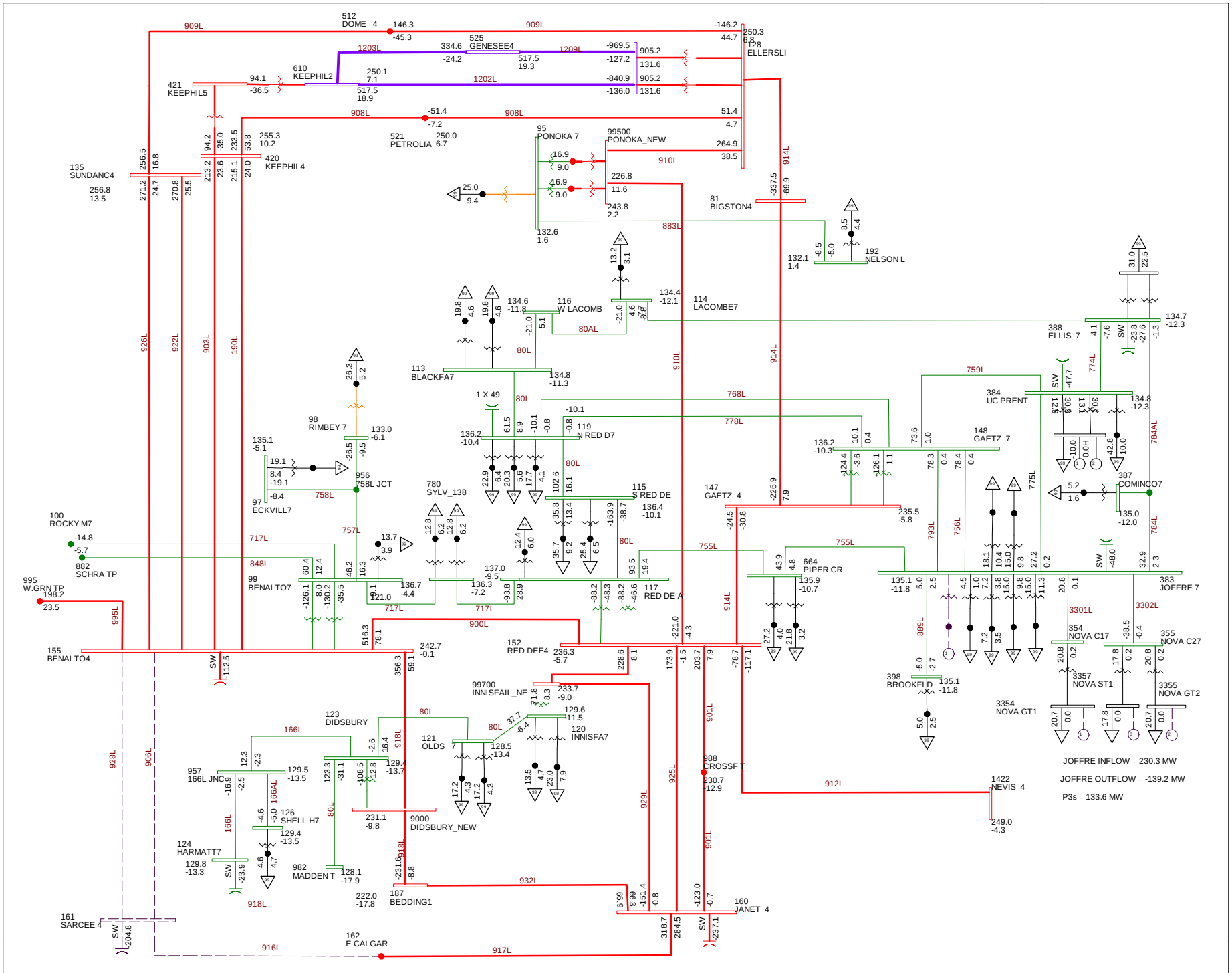
RED DEER REGION STUDY

2012 WINTER PEAK BASE CASE REVISION 6.5

FIG 2012-ALT2-LOAD-WP-D8-25(NOVA OFF): 138 KV LINES AND TRANSFORMER AT SUBSTATION INNISFAIL 214S OUTAGE
WED, MAR 02 2011 10:51

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-716

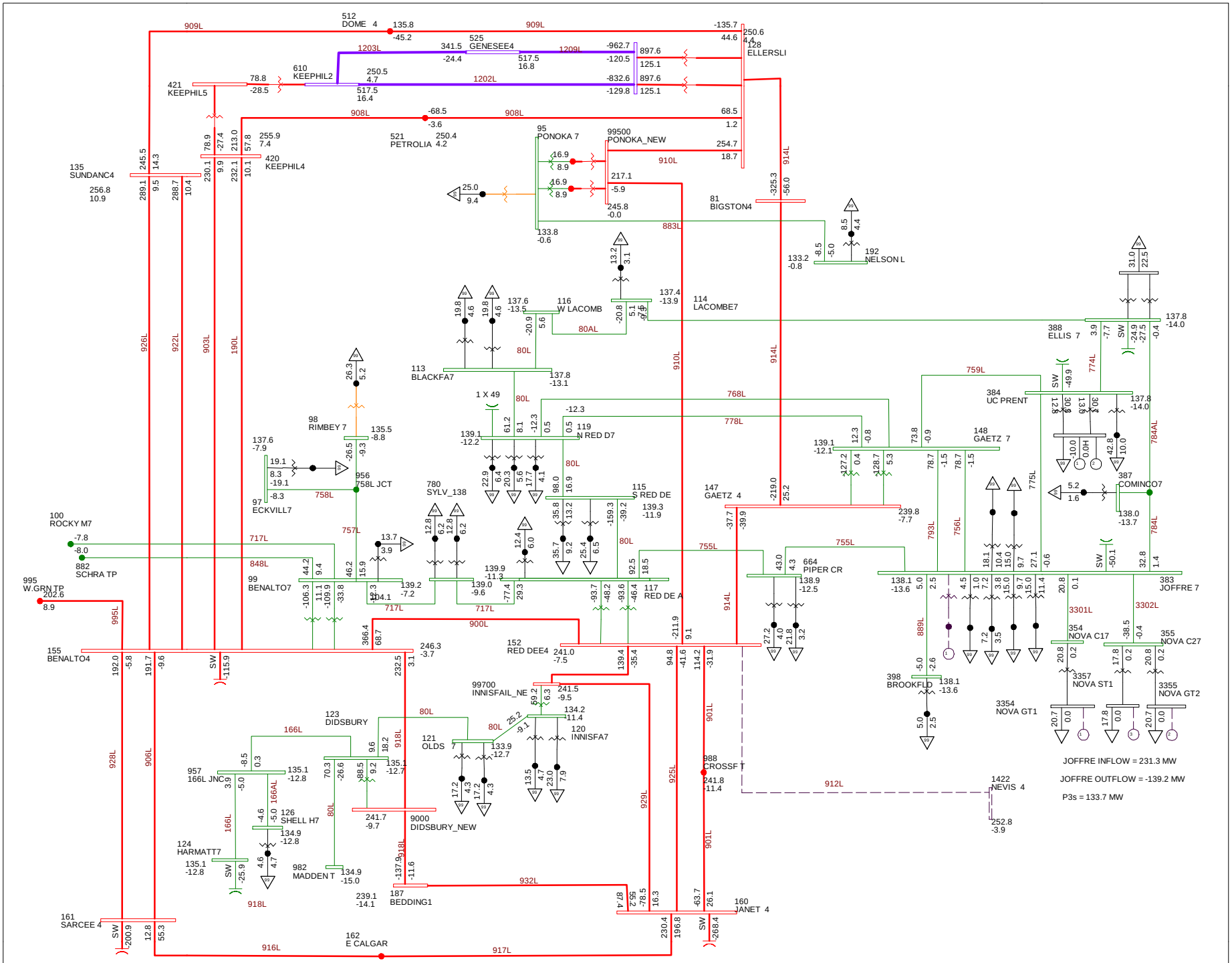


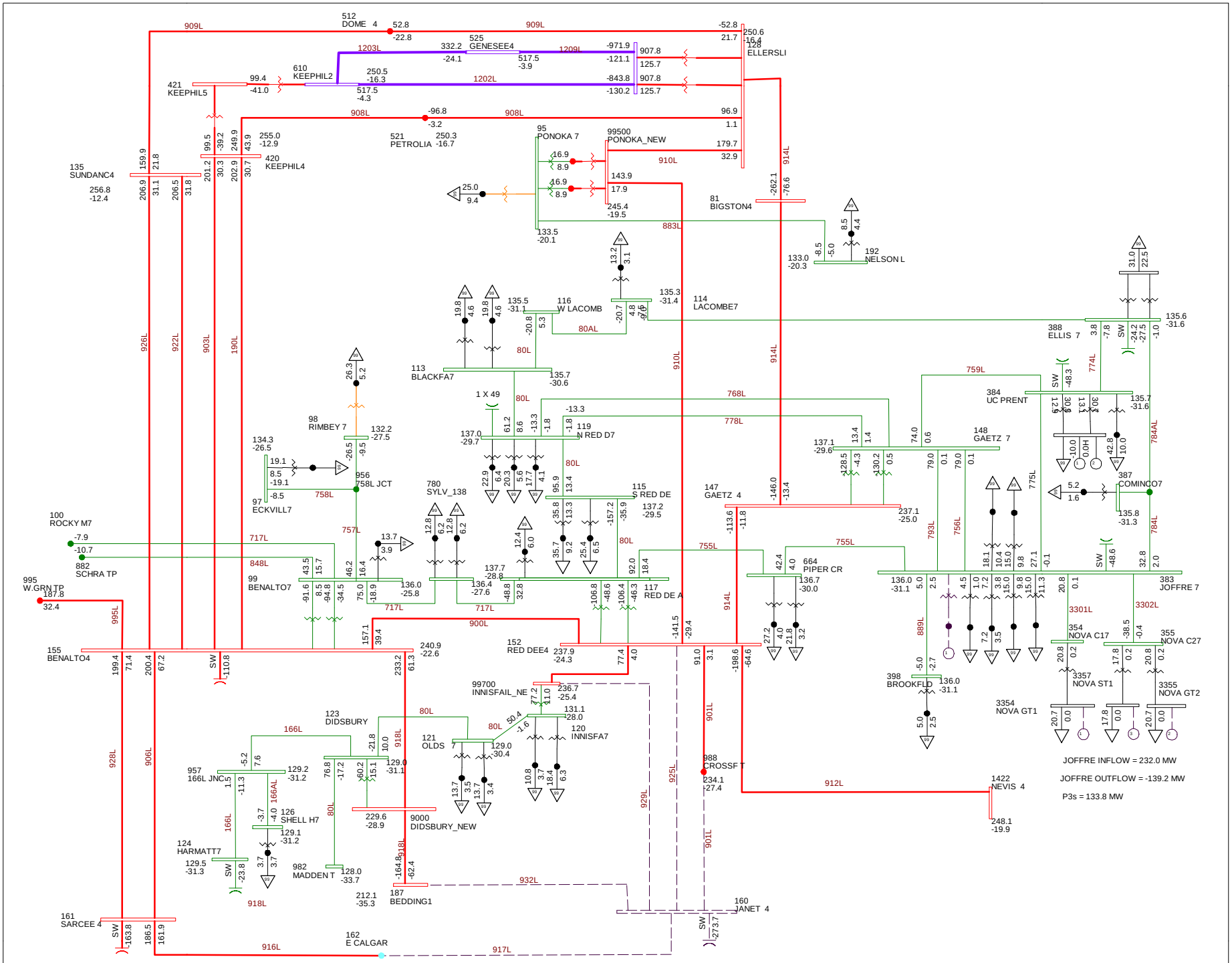
RED DEER REGION STUDY
2012 WINTER PEAK BASE CASE REVISION 6.5

FIG 2012-ALT2-LOAD-WP-D8-26(NOVA OFF): 240 KV LINES AND TRANSFORMER AT SUBSTATION SARCEE 42S OUTAGE
WED, MAR 02 2011 10:51

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-717


512
DOME 4
135.8
-45.2
909L
525
GENESEE4
341.5
-24.4
1203L
517.5
16.8
1209L
-962.7
-120.5
897.6
125.1
-135.7
44.6
250.6
4.4
128
ELLERSLI
610
KEEPHIL2
250.5
4.7
517.5
16.4
1202L
-832.6
-129.8
897.6
125.1
421
KEEPHIL5
78.8
-28.5
908L
-68.5
-3.6
908L
68.5
1.2
521
PETROLIA
250.4
4.2
95
PONOKA 7
99500
PONOKA_NEW
254.7
18.7
910L
914L
16.9
8.9
16.9
8.9
217.1
-5.9
245.8
-0.0
25.0
9.4
-325.3
-56.0
81
BIGSTON4
883L
133.8
-0.6
8.5
4.4
133.2
-0.8
8.5
-5.0
192
NELSON L
255.9
7.4
420
KEEPHIL4
135
SUNDANC4
256.8
10.9
245.5
14.3
289.1
9.5
288.7
10.4
78.9
-27.4
213.0
57.8
230.1
9.9
232.1
10.1
926L
922L
903L
190L
13.2
3.1
137.4
-13.9
114
LACOMBE7
116
W LACOMB
137.6
-13.5
-20.8
5.1
-9.5
80AL
19.8
4.6
19.8
4.6
-20.9
5.6
80L
113
BLACKFA7
137.8
-13.1
910L
914L
759L
768L
778L
784AL
774L
775L
793L
756L
784L
388
ELLIS 7
3.9
-7.7
SW
-24.9
-27.5
137.8
-14.0
-0.4
384
UC PRENT
SW
-49.9
137.8
-14.0
12.8
30.6
13.8
30.6
42.9
10.0
10.0
0.0H
784AL
387
COMINCO7
5.2
1.6
138.0
-13.7
784L
31.0
22.5
26.3
5.2
98
RIMBEY 7
135.5
-8.8
-26.5
-9.3
137.6
-7.9
19.1
8.3
-19.1
-8.3
956
758L JCT
758L
97
ECKVILL7
1 X 49
80L
-12.3
0.5
0.5
119
N RED D7
139.1
-12.2
61.2
8.1
-12.3
22.9
6.4
20.3
5.6
17.7
4.1
98.0
16.9
80L
780
SYLV_138
115
S RED DE
139.3
-11.9
35.8
13.2
-159.3
-39.2
35.7
9.2
25.4
6.5
92.5
18.5
80L
139.9
-11.3
139.0
-9.6
-77.4
29.3
12.4
6.0
12.8
6.2
12.8
6.2
147
GAETZ 4
-219.0
25.2
-37.7
-39.9
239.8
-7.7
139.1
-12.1
12.3
-0.8
-127.2
0.4
-128.7
5.3
73.8
-0.9
78.7
-1.5
78.7
-1.5
148
GAETZ 7
775L
18.1
10.4
15.0
9.7
15.0
27.1
-0.6
SW
-50.1
32.8
1.4
383
JOFFRE 7
138.1
-13.6
5.0
2.5
4.5
1.0
7.2
3.8
15.0
9.7
15.0
11.4
20.8
0.1
3301L
3302L
354
NOVA C17
355
NOVA C27
-38.5
-0.4
20.8
0.2
17.8
0.2
20.8
0.2
3357
NOVA ST1
3355
NOVA GT2
20.7
0.0
17.8
0.0
20.7
0.0
3354
NOVA GT1
JOFFRE INFLOW = 231.3 MW
JOFFRE OUTFLOW = -139.2 MW
P3s = 133.7 MW
100
ROCKY M7
-7.8
-8.0
882
SCHRA TP
717L
848L
757L
13.7
3.9
44.2
9.4
46.2
15.9
-106.3
11.1
-109.9
-33.8
99
BENALTO7
139.2
-7.2
104.1
-9.3
139.3
-7.2
717L
717L
755L
755L
43.0
4.3
664
PIPER CR
138.9
-12.5
914L
900L
366.4
68.7
246.3
-3.7
995
W.GRN TP
202.6
8.9
995L
928L
906L
155
BENALTO4
192.0
-5.8
191.7
-9.6
SW
-115.9
232.5
3.1
152
RED DEE4
241.0
-7.5
139.4
-35.4
94.8
-41.6
114.2
-31.9
-211.9
9.1
27.2
4.0
21.8
3.2
889L
398
BROOKFLD
138.1
-13.6
5.0
2.5
-5.0
-2.6
99700
INNISFAIL_NE
241.5
-9.5
59.2
6.3
134.2
11.4
25.2
-9.1
80L
80L
123
DIDSBURY
166L
9.6
18.2
918L
121
OLDS 7
133.9
-12.7
120
INNISFA7
901L
988
CROSSFT
241.8
-11.4
912L
1422
NEVIS 4
252.8
-3.9
957
166L JNC
135.1
-12.8
3.9
-5.0
-8.5
0.3
70.3
-26.6
88.5
9.2
135.1
-12.7
166AL
166L
126
SHELL H7
134.9
-12.8
-4.6
-5.0
4.6
4.7
124
HARMATT7
135.1
-12.8
SW
-25.9
241.7
-9.7
9000
DIDSBURY_NEW
80L
929L
925L
982
MADDEN T
134.9
-15.0
-137.9
-11.6
918L
932L
239.1
-14.1
187
BEDDING1
87.4
55.2
-78.5
16.3
-63.7
26.1
160
JANET 4
161
SARCEE 4
SW
-200.9
12.8
55.3
230.4
196.8
SW
-268.4
162
E CALGAR
916L
917L
D-2012-718
RED DEER REGION STUDY
2012 WINTER PEAK BASE CASE REVISION 6.5
FIG 2012-ALT2-LOAD-WP-D8-27(NOVA OFF): 240 KV LINES
AND TRANSFORMER AT SUBSTATION NEVIS 766S OUTAGE
WED, MAR 02 2011 10:51
Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000
<=138.000
>500.000
<=34.500
<=240.000
<=500.000



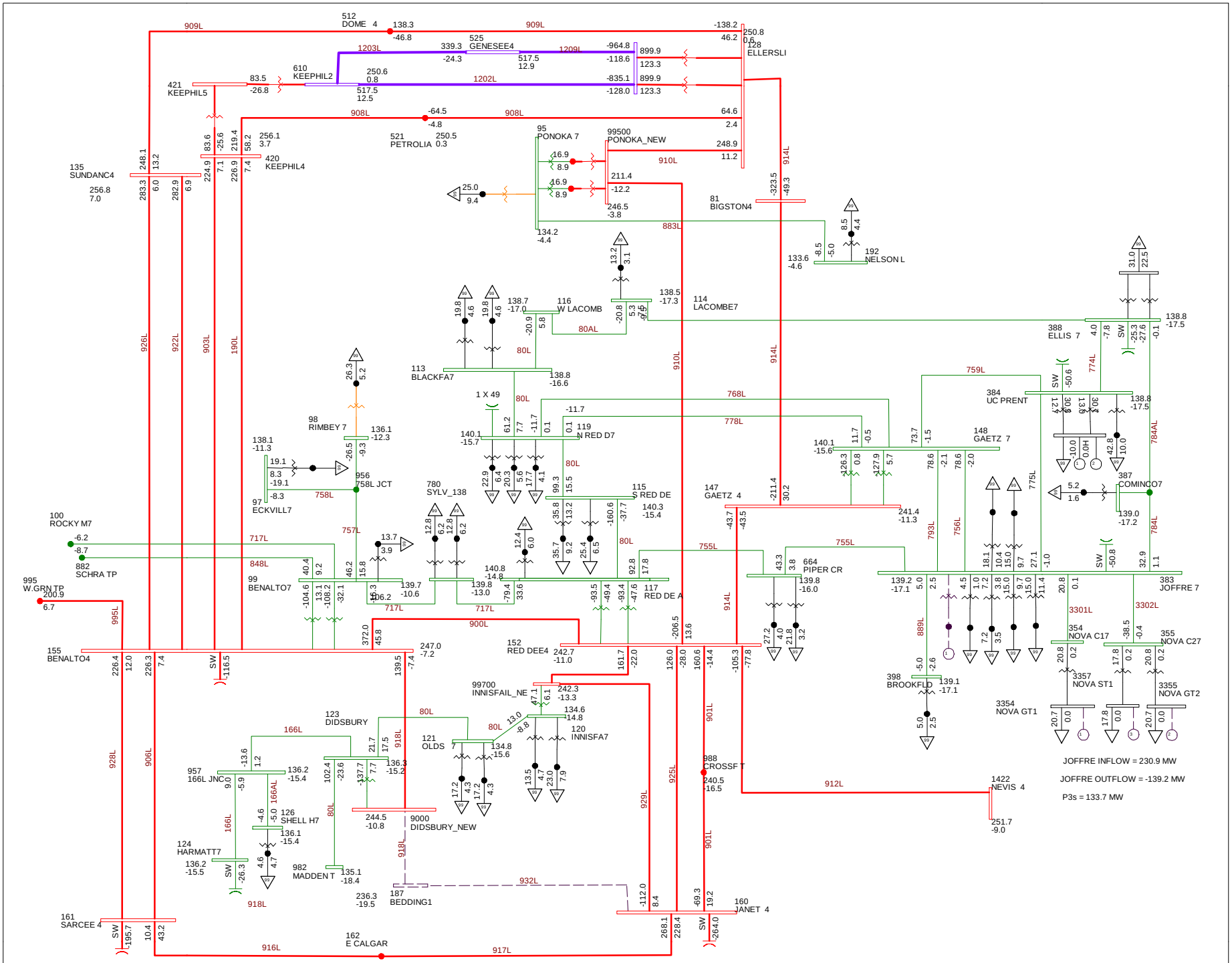
RED DEER REGION STUDY

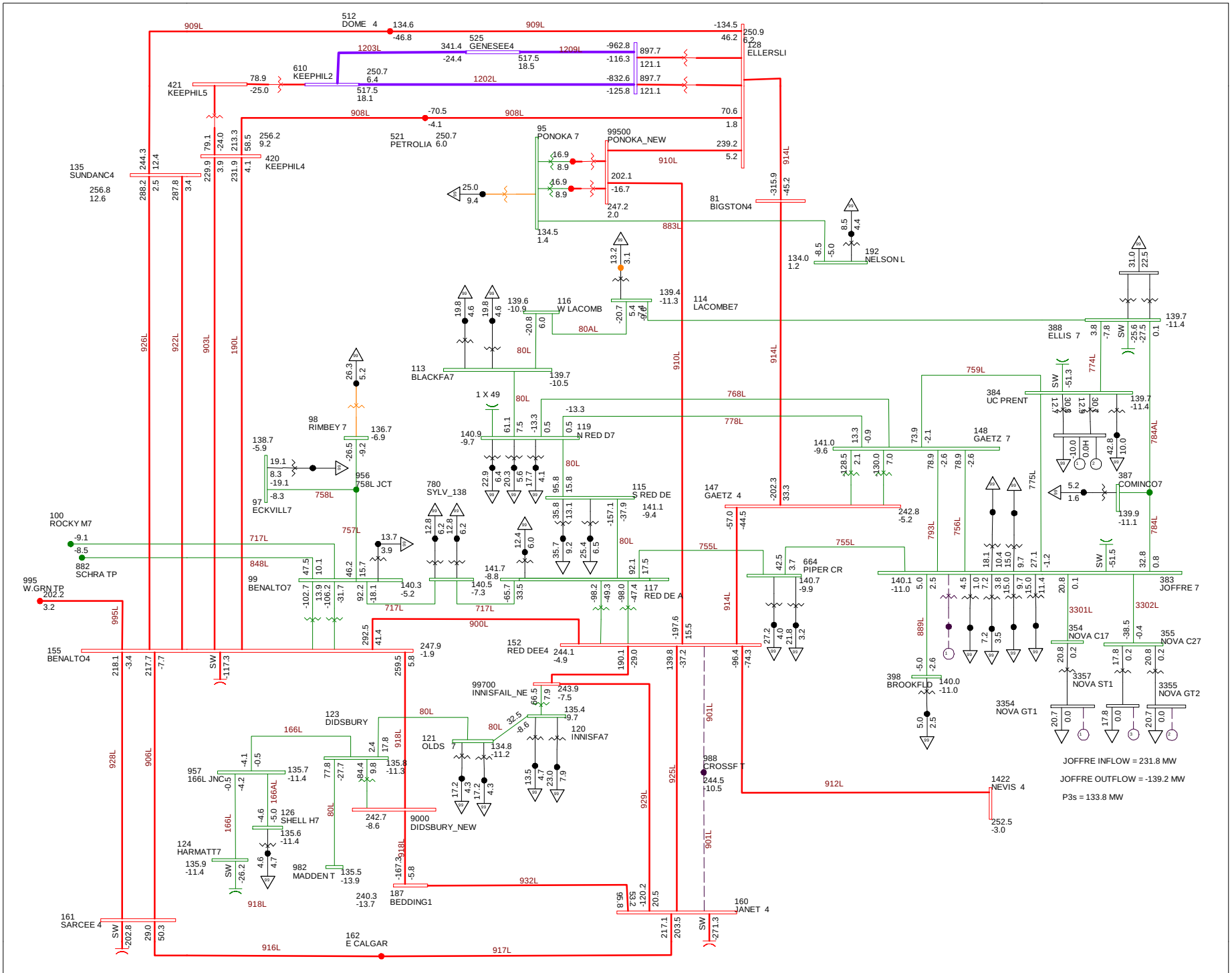
2012 WINTER PEAK BASE CASE REVISION 6.5

FIG 2012-ALT2-LOAD-WP-D8-28(NOVA OFF): 240 KV LINES AND TRANSFORMER AT SUBSTATION JANET 74S OUTAGE WITH RAS
WED, MAR 02 2011 10:51

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-719


512
DOME 4
138.3
-46.8
909L
-138.2
46.2
250.8
0.6
128
ELLERSLI
525
GENESEE4
339.3
-24.3
517.5
12.9
1203L
1209L
-964.8
-118.6
899.9
123.3
610
KEEPHIL2
250.6
0.8
517.5
12.5
1202L
-835.1
-128.0
899.9
123.3
421
KEEPHIL5
83.5
-26.8
908L
-64.5
-4.8
908L
64.6
2.4
521
PETROLIA
250.5
0.3
95
PONOKA 7
99500
PONOKA_NEW
248.9
11.2
910L
914L
16.9
8.9
16.9
8.9
211.4
-12.2
-246.5
-3.8
134.2
-4.4
25.0
9.4
-323.5
-49.3
81
BIGSTON4
883L
135
SUNDANC4
256.8
7.0
248.1
13.2
283.3
6.0
282.9
6.9
83.6
-25.6
219.4
58.2
256.1
3.7
224.9
7.1
226.9
7.4
420
KEEPHIL4
8.5
4.4
133.6
-4.6
8.5
-5.0
192
NELSON L
13.2
3.1
138.5
-17.3
114
LACOMBE7
116
W LACOMB
138.7
-17.0
80AL
-20.8
5.3
-9.5
-20.9
5.8
19.8
4.6
19.8
4.6
113
BLACKFA7
138.8
-16.6
80L
926L
922L
903L
190L
910L
914L
759L
768L
778L
774L
784AL
784L
775L
793L
756L
717L
757L
758L
848L
995L
889L
3301L
3302L
900L
901L
925L
929L
928L
906L
918L
916L
917L
912L
932L
1 X 49
80L
-11.7
61.2
7.7
-11.7
0.1
0.1
119
N RED D7
140.1
-15.7
22.9
6.4
20.3
5.6
17.7
4.1
99.3
15.5
115
S RED DE
140.3
-15.4
-160.6
-37.7
35.8
13.2
35.7
9.2
25.4
6.5
780
SYLV_138
12.8
6.2
12.8
6.2
12.4
6.0
140.8
-14.8
139.8
-13.0
-79.4
33.6
92.8
17.8
-93.5
-49.4
-93.4
-47.6
117
RED DE A
139.8
-16.0
43.3
3.8
664
PIPER CR
-43.7
-43.5
147
GAETZ 4
-211.4
30.2
241.4
-11.3
140.1
-15.6
126.3
0.8
127.9
5.7
11.7
-0.5
73.7
-1.5
78.6
-2.1
78.6
-2.0
148
GAETZ 7
384
UC PRENT
388
ELLIS 7
4.0
-7.8
SW
-25.3
-27.6
-0.1
138.8
-17.5
SW
-50.6
127.4
130.6
130.6
127.4
10.0
0.0H
10.0
42.9
387
COMINCO7
5.2
1.6
139.0
-17.2
SW
-50.8
32.9
1.1
383
JOFFRE 7
139.2
-17.1
5.0
2.5
4.5
1.0
7.2
3.8
15.0
9.7
15.0
11.4
18.1
10.4
15.0
9.7
27.1
-1.0
20.8
0.1
-38.5
-0.4
355
NOVA C27
354
NOVA C17
3357
NOVA ST1
3355
NOVA GT2
3354
NOVA GT1
20.8
0.2
17.8
0.2
20.8
0.2
20.7
0.0
17.8
0.0
20.7
0.0
JOFFRE INFLOW = 230.9 MW
JOFFRE OUTFLOW = -139.2 MW
P3s = 133.7 MW
398
BROOKFLD
139.1
-17.1
5.0
-2.6
5.0
2.5
889L
1422
NEVIS 4
251.7
-9.0
240.5
-16.5
988
CROSSFT
901L
925L
929L
912L
99700
INNISFAIL_NE
47.1
6.1
242.3
-13.3
134.6
-14.8
13.0
-8.8
120
INNISFA7
121
OLDS 7
134.8
-15.6
17.2
4.3
17.2
4.3
13.5
4.7
23.0
7.9
123
DIDSBURY
80L
166L
21.7
17.5
136.3
-15.2
102.4
-23.6
137.7
7.7
244.5
-10.8
9000
DIDSBURY_NEW
957
166L JNC
136.2
-15.4
-13.6
1.2
9.0
-5.9
166AL
-4.6
-5.0
126
SHELL H7
136.1
-15.4
124
HARMATT7
136.2
-15.5
SW
-26.3
4.6
4.7
982
MADDEN T
135.1
-18.4
236.3
-19.5
187
BEDDING1
-112.0
8.4
-69.3
19.2
160
JANET 4
268.1
228.4
SW
-264.0
161
SARCEE 4
SW
-195.7
10.4
43.2
162
E CALGAR
100
ROCKY M7
-6.2
-8.7
882
SCHRA TP
995
W.GRN TP
200.9
6.7
155
BENALTO4
226.4
12.0
226.3
7.4
SW
-116.5
139.5
-7.4
247.0
-7.2
372.0
-45.8
152
RED DEE4
242.7
-11.0
161.7
-22.0
126.0
-28.0
160.6
-14.4
-105.3
-77.8
206.5
13.6
27.2
4.0
21.8
3.2
98
RIMBEY 7
136.1
-12.3
26.5
-9.3
138.1
-11.3
19.1
8.3
-19.1
-8.3
956
758L JCT
26.3
5.2
97
ECKVILL7
99
BENALTO7
40.4
9.2
46.2
15.8
-104.6
13.1
-108.2
-32.1
-106.2
-13.3
139.7
-10.6
13.7
3.9
-5.3
-2.6
-104.6
-108.2
717L
848L
757L
717L
717L
-5.3
-2.6
-106.2
-32.1
139.7
-10.6



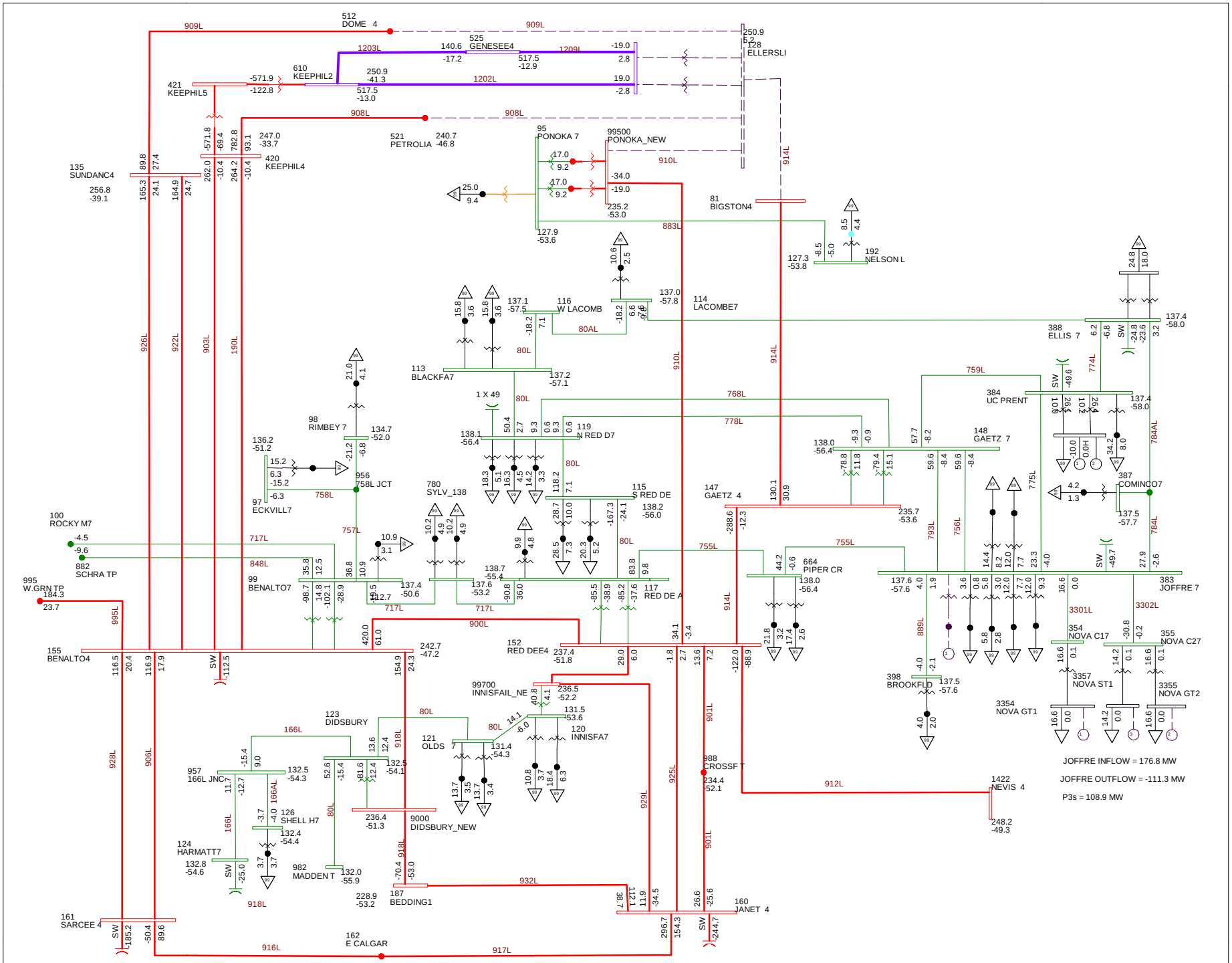
RED DEER REGION STUDY

2012 WINTER PEAK BASE CASE REVISION 6.5

FIG 2012-ALT2-LOAD-WP-D8-30(NOVA OFF): 240 KV LINES AND TRAN
SUBSTATION CROSSFIELD 64S OUTAGE
WED, MAR 02 2011 10:51

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-721



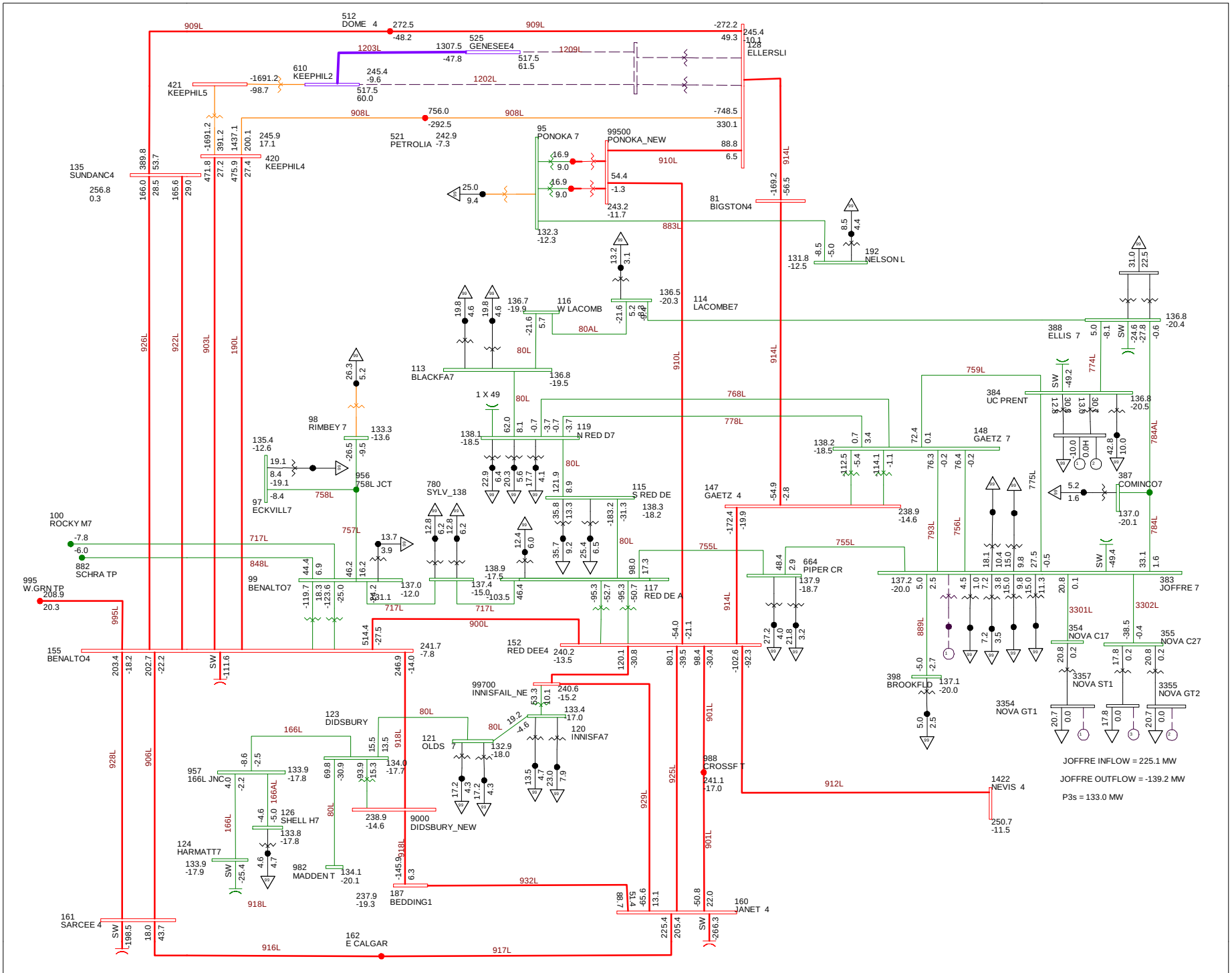
RED DEER REGION STUDY

2012 WINTER PEAK BASE CASE REVISION 6.5

FIG 2012-ALT2-LOAD-WP-D8-31(NOVA OFF): 240 KV LINES AND TRAN
SUBSTATION ELLERSLIE 89S OUTAGE WITH RAS
WED, MAR 02 2011 10:51

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-722



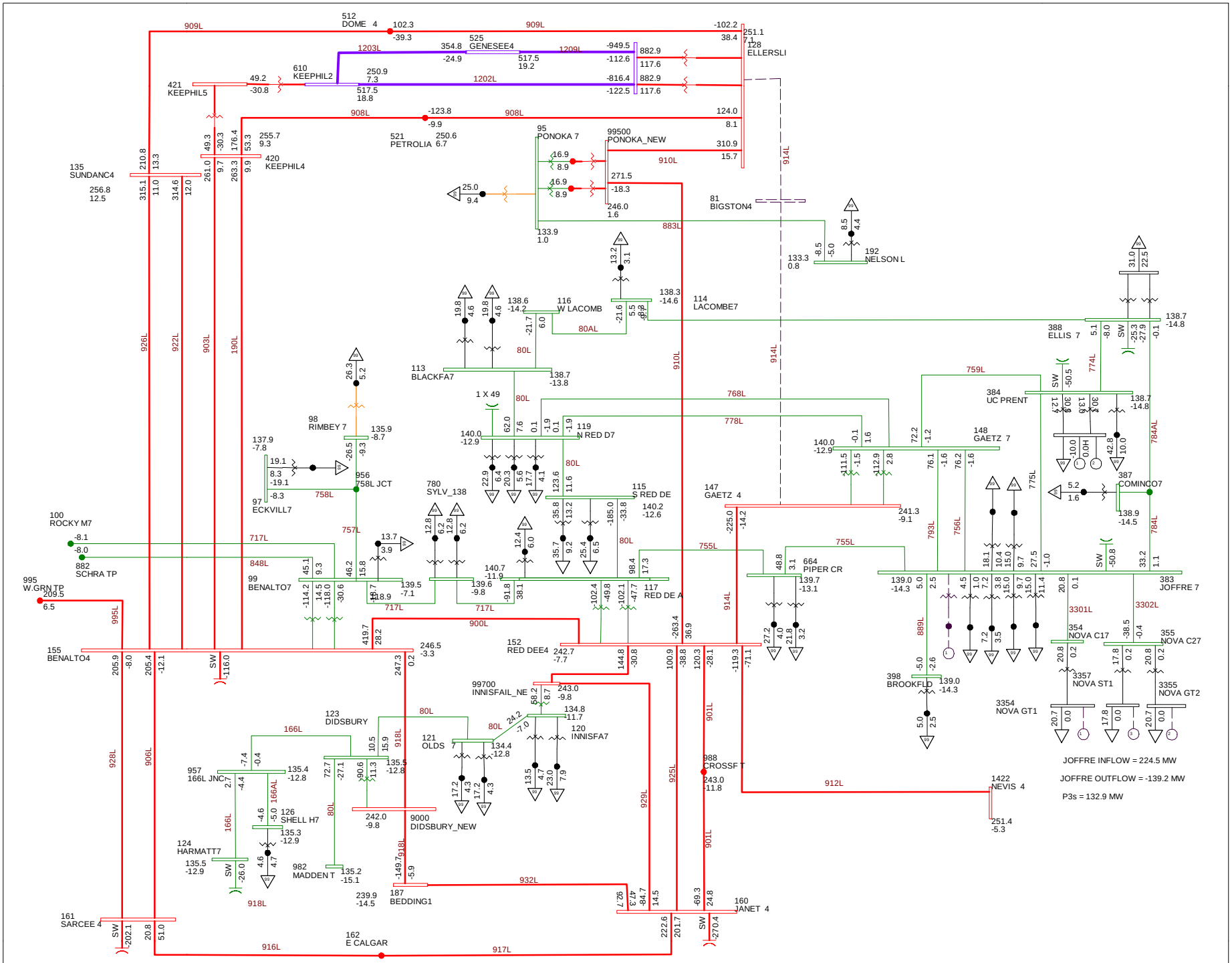
RED DEER REGION STUDY

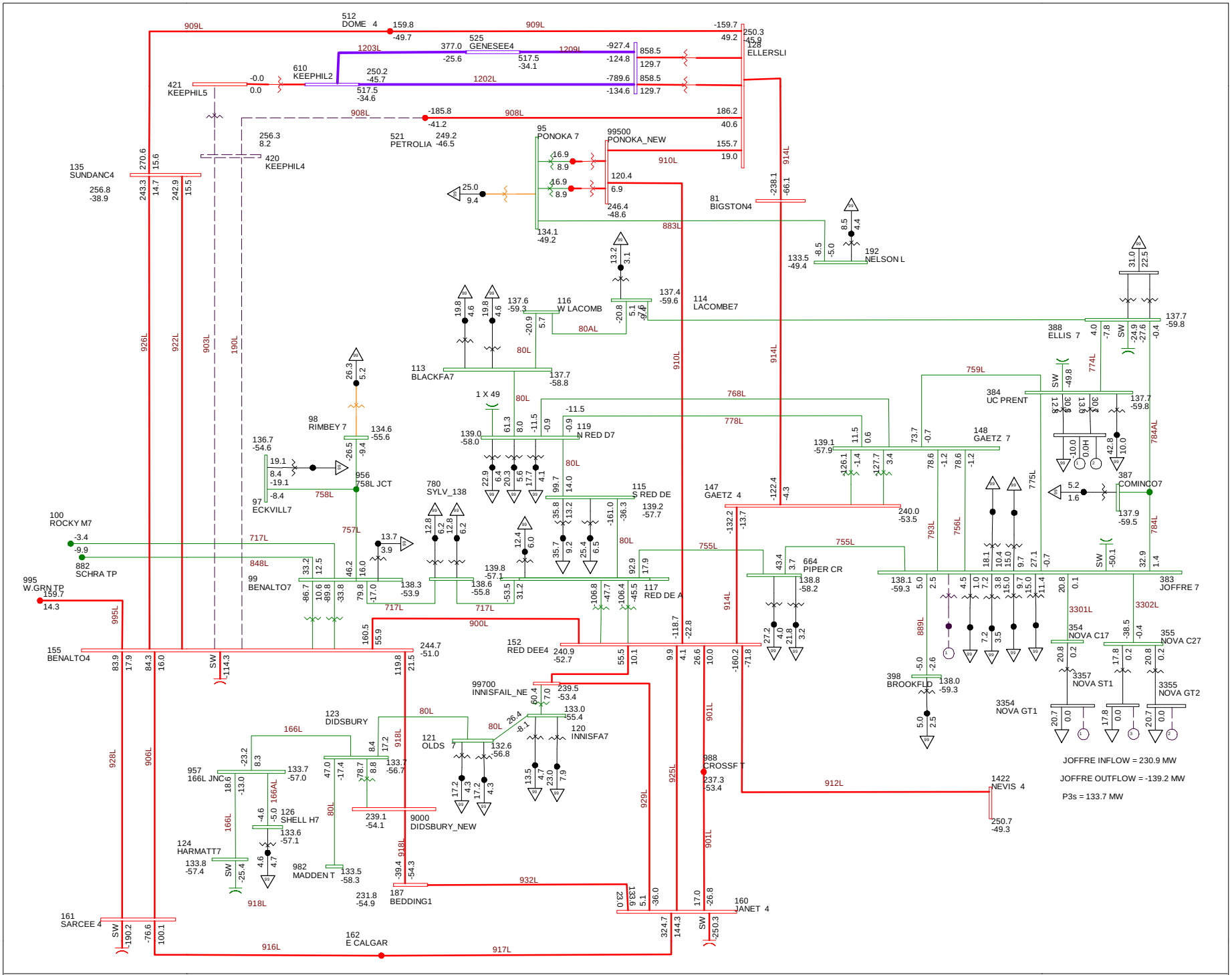
2012 WINTER PEAK BASE CASE REVISION 6.5

FIG 2012-ALT2-LOAD-WP-D8-32(NOVA OFF): 500 KV LINES AND TRAN
SUBSTATION ELLERSLIE 89S OUTAGE
WED, MAR 02 2011 10:51

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-723


512
DOME 4
102.3
-39.3
909L
-102.2
38.4
251.1
7.1
128
ELLERSLI
525
GENESEE4
1203L
1209L
354.8
-24.9
517.5
19.2
-949.5
-112.6
882.9
117.6
610
KEEPHIL2
250.9
7.3
517.5
18.8
1202L
-816.4
-122.5
882.9
117.6
421
KEEPHIL5
49.2
-30.8
908L
-123.8
-9.9
124.0
8.1
521
PETROLIA
250.6
6.7
95
PONOKA 7
99500
PONOKA_NEW
16.9
8.9
310.9
15.7
910L
914L
271.5
-18.3
246.0
1.6
25.0
9.4
883L
81
BIGSTON4
133.9
1.0
8.5
4.4
133.3
0.8
8.5
-5.0
192
NELSON L
13.2
3.1
138.3
-14.6
114
LACOMBE7
138.6
-14.2
116
W LACOMB
80AL
-21.6
5.5
-21.7
6.0
80L
113
BLACKFA7
138.7
-13.8
910L
914L
759L
774L
768L
778L
784AL
775L
793L
756L
784L
388
ELLIS 7
138.7
-14.8
384
UC PRENT
138.7
-14.8
148
GAETZ 7
140.0
-12.9
147
GAETZ 4
241.3
-9.1
387
COMINCO7
138.9
-14.5
383
JOFFRE 7
3301L
3302L
354
NOVA C17
355
NOVA C27
3357
NOVA ST1
3355
NOVA GT2
3354
NOVA GT1
398
BROOKFLD
139.0
-14.3
JOFFRE INFLOW = 224.5 MW
JOFFRE OUTFLOW = -139.2 MW
P3s = 132.9 MW
1422
NEVIS 4
251.4
-5.3
912L
988
CROSSFT
243.0
-11.8
901L
925L
929L
932L
135
SUNDANC4
256.8
12.5
420
KEEPHIL4
255.7
9.3
926L
922L
903L
190L
98
RIMBEY 7
135.9
-8.7
137.9
-7.8
956
758L JCT
758L
97
ECKVILL7
1 X 49
119
N RED D7
140.0
-12.9
780
SYLV_138
115
S RED DE
140.2
-12.6
100
ROCKY M7
882
SCHRA TP
995
W.GRN TP
209.5
6.5
995L
848L
717L
757L
99
BENALTO7
139.5
-7.1
155
BENALTO4
205.9
205.4
-12.1
246.5
-3.3
247.3
0.2
SW
-116.0
928L
906L
161
SARCEE 4
-202.1
20.8
51.0
162
E CALGAR
916L
917L
900L
419.7
28.2
152
RED DEE4
242.7
-7.7
144.8
-30.8
100.9
-38.8
120.3
-28.1
-119.3
-71.1
-263.4
36.9
914L
117
RED DE A
139.6
-9.8
140.7
-11.9
717L
99700
INNISFAIL_NE
243.0
-9.8
134.8
11.7
120
INNISFA7
121
OLDS 7
134.4
-12.8
123
DIDSBURY
166L
957
166L JNC
135.4
-12.8
126
SHELL H7
135.3
-12.9
124
HARMATT7
135.5
-12.9
982
MADDEN T
135.2
-15.1
242.0
-9.8
9000
DIDSBURY_NEW
918L
239.9
-14.5
187
BEDDING1
-149.7
-5.9
932L
160
JANET 4
222.6
201.7
-270.4
664
PIPER CR
139.7
-13.1
48.8
3.1
27.2
4.0
21.8
3.2
755L
889L
793L
756L
775L
784L
784AL
759L
774L
768L
778L
914L
910L
901L
925L
929L
912L
883L
914L
910L
901L
932L
918L
916L
917L
995L
928L
906L
848L
717L
757L
758L
80L
80AL
166L
166AL
903L
922L
926L
190L
SW
-50.5
-50.8
-38.5
-0.4
-1.0
-1.6
-2.6
-5.0
-14.3
-8.0
-25.3
-27.9
-0.1

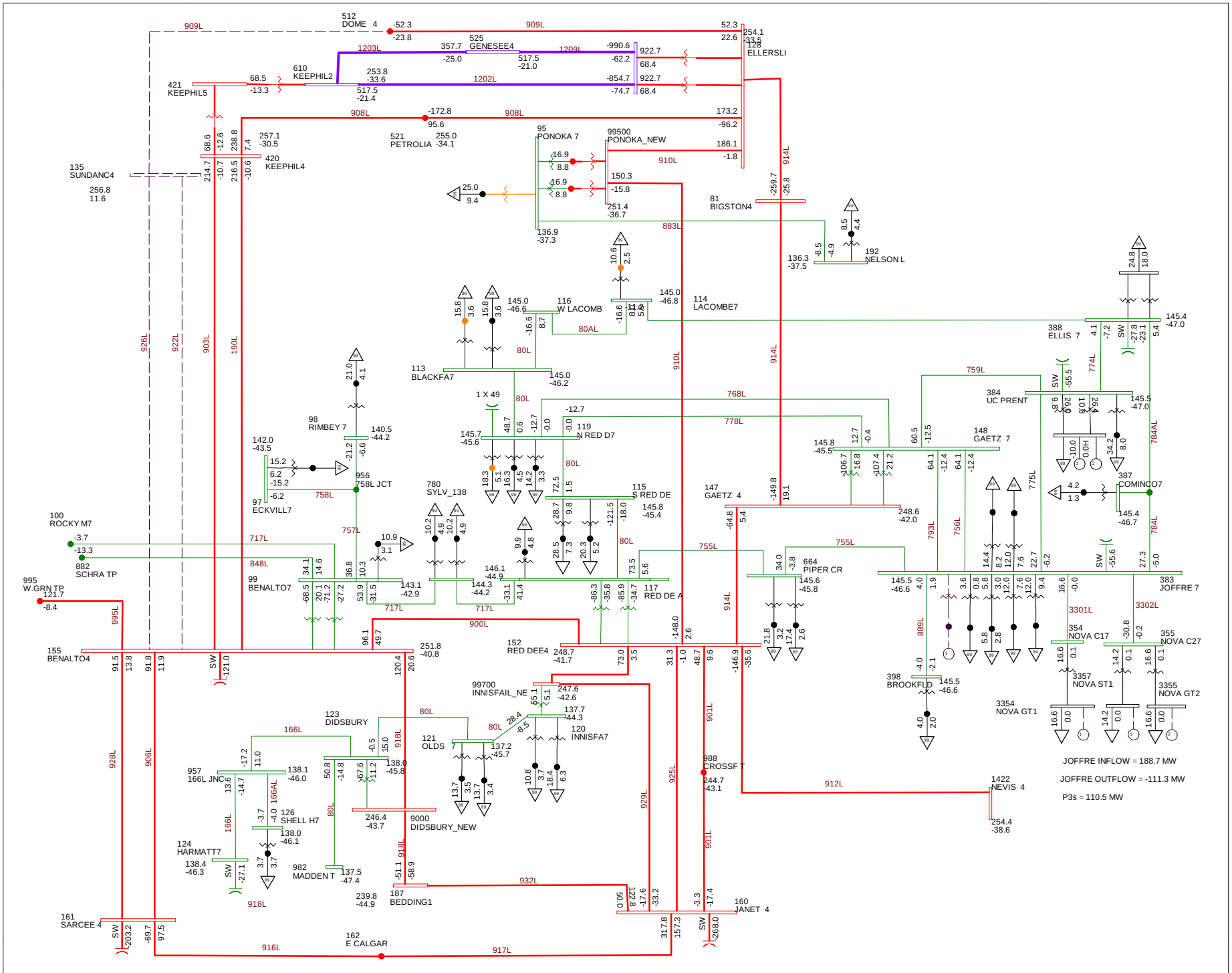


RED DEER REGION STUDY

2012 WINTER PEAK BASE CASE REVISION 6.5

FIG 2012-ALT2-LOAD-WP-D8-34(NOVA OFF): 240 KV LINES AND TRAN
SUBSTATION KEEPHILLS 568S OUTAGE
WED, MAR 02 2011 10:51

D-2012-725



RED DEER REGION STUDY

2012 WINTER PEAK BASE CASE REVISION 6.5

FIG 2012-ALT2-LOAD-WP-D8-35(NOVA OFF): 240 KV LINES AND TRAN SUBSTATION SUNDANCE 821S OUTAGE WITH RAS
WED, MAR 02 2011 10:51

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-726

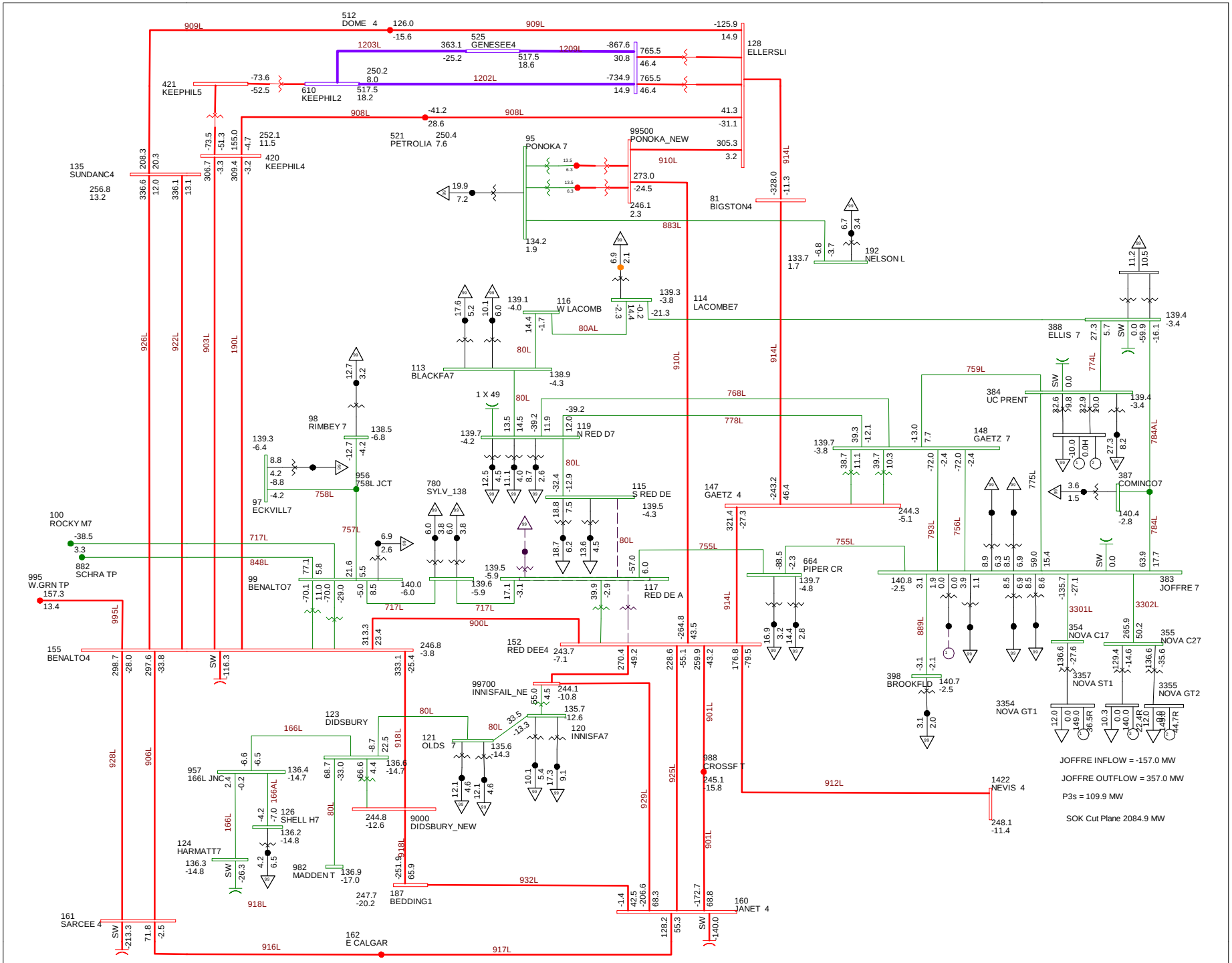
Table D-2012-18: Summary of 2012 Load Adequacy Power Flow Analysis - Alternative 2 Category D8 (SP with High SOK Plane)

Figure No.	Contingency	Overloaded Element	Percent Overload	Other System Performance Concerns	SPS
Summer Peak					
Fig 2012-Alt2-Load-SP-D8-1 (High SOK)	138 kV lines and transformer at substation Red Deer 63S-A	None	N/A	None	None
Fig 2012-Alt2-Load-SP-D8-2 (High SOK)	138 kV lines and transformer at substation Red Deer 63S-B	None	N/A	None	None
Fig 2012-Alt2-Load-SP-D8-3 (High SOK) / Fig 2012-Alt2-Load-SP-D8-3-1 (High SOK)	240 kV lines and transformer at substation Red Deer 63S	906/928L Benalto 17S to Sarcee 42S	117%	None	680MW Generation curtailment at Sundance
		918L Benalto 17S via Didsbury 152S to Beddington 162S	146%		
Fig 2012-Alt2-Load-SP-D8-4 (High SOK) / Fig 2012-Alt2-Load-SP-D8-4-1 (High SOK)	138 kV lines and transformer at substation Gaetz 87S	80AL N.E. Lacombe 212S to W. Lacombe 958S	105%	None	20MW Generation curtailment at Nova
Fig 2012-Alt2-Load-SP-D8-5 (High SOK)	240 kV lines and transformer at substation Gaetz 87S	None	N/A	None	None
Fig 2012-Alt2-Load-SP-D8-6 (High SOK) /Fig 2012-Alt2-Load-SP-D8-6-1 (High SOK)	138 kV lines and transformer at substation Benalto 17S	166L Didsbury 152S to Harmattan 256S	162%	Voltage Violation at Rocky Mountain, Amocowelles den and Shell areas	Curtail load of Caroline area by 30%
Fig 2012-Alt2-Load-SP-D8-7 (High SOK) Fig 2012-Alt2-Load-SP-D8-7-1 (High SOK)	240 kV lines and transformer at substation Benalto 17S	914L Ellerslie 89S via Bigstone 86S to Gaetz 87S	189%	Voltage Violation at Ponoka area	1300MW Generation curtailment at Sundance
		910L Ellerslie 89S via Ponoka 331S to Red Deer 63S	194%		
		914L Gaetz 86S to Red Deer 63S	162%		
		901L Red Deer 63S to Crossfield 64S	101%		

Figure No.	Contingency	Overloaded Element	Percent Overload	Other System Performance Concerns	SPS
		929L Red Deer 63S to Innisfail 214S	102%		
		80L Innisfail to Olds 55S	100%		
Fig 2012-Alt2-Load-SP-D8-8 (High SOK)	138 kV lines and transformer at substation Didsbury (152S)	None	N/A	None	None
Fig 2012-Alt2-Load-SP-D8-9 (High SOK)	240 kV lines and transformer at substation Didsbury (152S)	None	N/A	None	None
Fig 2012-Alt2-Load-SP-D8-10 (High SOK)	240 kV lines and transformer at Substation Ponoka 331S	None	N/A	None	None
Fig 2012-Alt2-Load-SP-D8-11 (High SOK)	138 kV lines and transformer at Substation Ponoka 331S	None	N/A	None	None
Fig 2012-Alt2-Load-SP-D8-12 (High SOK)	138 kV Substation W. Lacombe 958S	None	N/A	None	None
Fig 2012-Alt2-Load-SP-D8-13 (High SOK)	138 kV Substation N.E. Lacombe 212S	None	N/A	None	None
Fig 2012-Alt2-Load-SP-D8-14 (High SOK)	138 kV Substation Blackfalds 198S	None	N/A	None	None
Fig 2012-Alt2-Load-SP-D8-15 (High SOK)	138 kV Substation N. Red Deer 217S	None	N/A	None	None
Fig 2012-Alt2-Load-SP-D8-16 (High SOK)	138 kV Substation S. Red Deer 194S	None	N/A	None	None
Fig 2012-Alt2-Load-SP-D8-17 (High SOK)	138 kV Substation Ellis 332S	None	N/A	None	None
Fig 2012-Alt2-Load-SP-D8-18 (High SOK)	138 kV Substation U.C. Prentiss 276S	None	N/A	None	None
Fig 2012-Alt2-Load-SP-D8-19 (High SOK)	138 kV Substation Sylvan Lake 580S	None	N/A	None	None
Fig 2012-Alt2-Load-SP-D8-20 (High SOK)	138 kV Substation Piper Creek 274S	None	N/A	None	None
Fig 2012-Alt2-Load-SP-D8-21 (High SOK)	138 kV Substation Joffre 535S	None	N/A	None	None
Fig 2012-Alt2-Load-SP-D8-22 (High SOK)	138 kV Substation Harmattan 256S	None	N/A	None	None
Fig 2012-Alt2-Load-SP-D8-23 (High SOK)	138 kV Substation Olds 55S	None	N/A	None	None
Fig 2012-Alt2-Load-SP-D8-24 (High SOK)	240 kV lines and transformer at Substation Innisfail 214S	None	N/A	None	None

Figure No.	Contingency	Overloaded Element	Percent Overload	Other System Performance Concerns	SPS
Fig 2012-Alt2-Load-SP-D8-25 (High SOK)	138 kV lines and transformer at Substation Innisfail 214S	None	N/A	None	None
Fig 2012-Alt2-Load-SP-D8-26 (High SOK) /Fig 2012-Alt2-Load-SP-D8-26-1 (High SOK)	240 kV lines and transformer at substation Sarcee 42S	80L Didsbury 152S to Madden TAP	108%	None	380MW Generation curtailment at Sundance
		900L Red Deer 63S to Benalto 17S	101%		
		918L Benalto 17S to Didsbury 152S	117%		
Fig 2012-Alt2-Load-SP-D8-27 (High SOK)	240 kV lines and transformer at substation Nevis 766S	None	N/A	None	None
Fig 2012-Alt2-Load-SP-D8-28 (High SOK) /Fig 2012-Alt2-Load-SP-D8-28-1 (High SOK)	240 kV lines and transformer at substation Janet 74S	80L Didsbury 152S to Madden TAP	109%	None	200MW Generation curtailment at Sundance
		918L Benalto 17S to Didsbury 152S	101%		
Fig 2012-Alt2-Load-SP-D8-29 (High SOK)	240 kV lines and transformer at substation Beddington 162S	None	N/A	None	None
Fig 2012-Alt2-Load-SP-D8-30 (High SOK)	240 kV lines and transformer at substation Crossfield 64S	None	N/A	None	None
Fig 2012-Alt2-Load-SP-D8-31 (High SOK) /Fig 2012-Alt2-Load-SP-D8-31-1 (High SOK)	240 kV lines and transformer at substation Ellerslie 89S	900L Red Deer 63S to Benalto 17S	110%	Transformer 500/240 kV at Keephills 868S heavily overloaded and Some elements overloaded in Area 40	Generation curtailment at Genesee
		903/190L Keephills 868S to Benalto 17S	111%		
Fig 2012-Alt2-Load-SP-D8-32 (High SOK)	500 kV lines and transformer at substation Ellerslie 89S	903/190L Keephills 868S to Benalto 17S	129%	Transformer 500/240 kV at Keephills 868S heavily overloaded and Some elements overloaded in Area 40	Generation curtailment at Genesee
Fig 2012-Alt2-Load-SP-D8-33 (High SOK)	240 kV lines and transformer at substation Bigstone 86S	None	N/A	None	None
Fig 2012-Alt2-Load-SP-D8-34 (High SOK)	240 kV lines and transformer at substation Keephills 568S	None	N/A	None	None

Figure No.	Contingency	Overloaded Element	Percent Overload	Other System Performance Concerns	SPS
Fig 2012-Alt2-Load-SP-D8-35 (High SOK)	240 kV lines and transformer at substation Sundance 821S	N/A	N/A	Diverge	Curtail load of Red Deer area by 20% and areas 40 & 60 by 50%

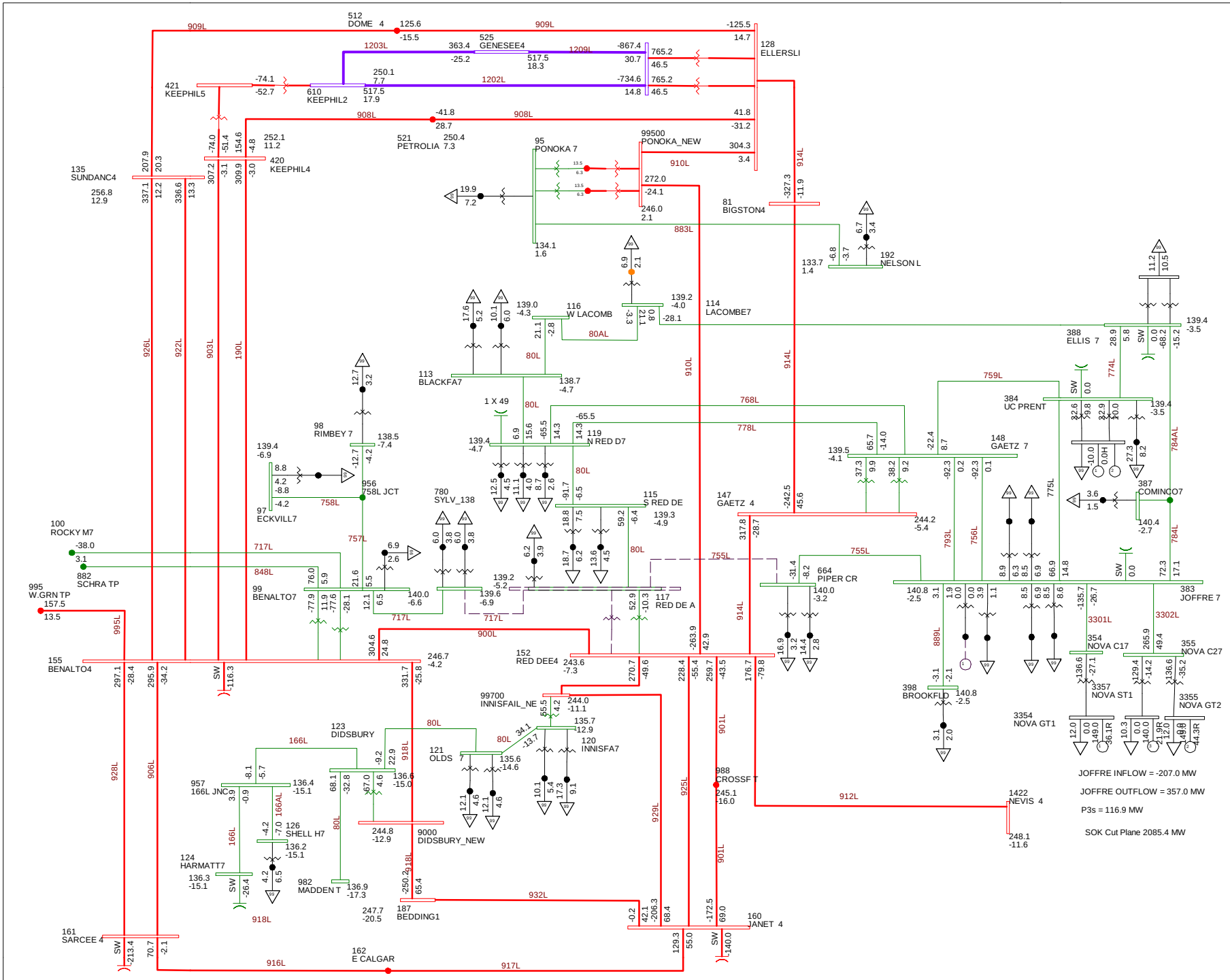


RED DEER REGION STUDY
2012 S3_SOK_PK (2012 SUMMER PEAK CASE)

FIG 2012-ALT2-LOAD-SP-D8-1(HIGH SOK): 138 KV LINES AND TRANSFORMER AT SUBSTATION RED DEER 63S-A OUTAGE
WED, MAR 02 2011 10:18

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-731

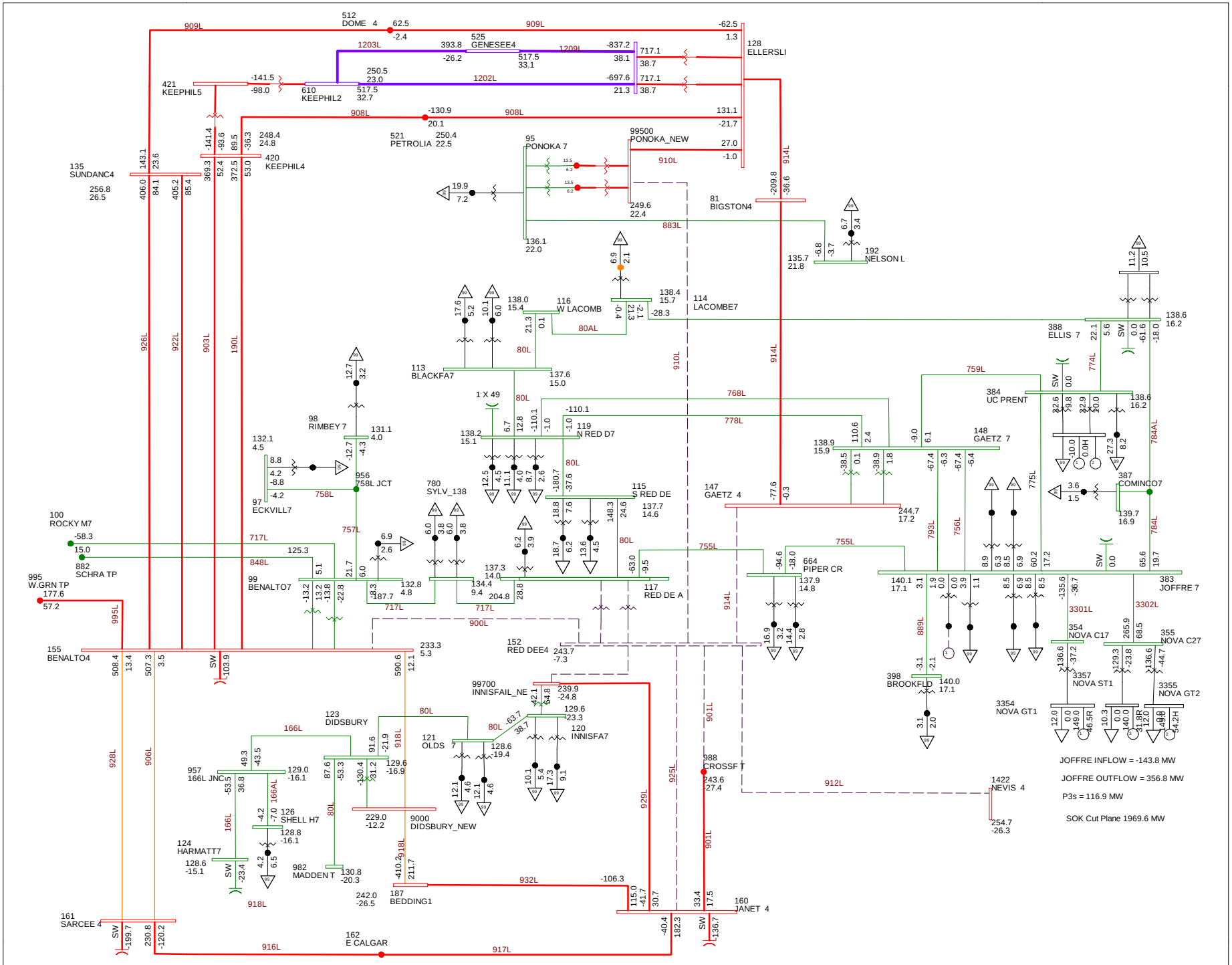


RED DEER REGION STUDY
2012 S3_SOK_PK (2012 SUMMER PEAK CASE)

FIG 2012-ALT2-LOAD-SP-D8-2(HIGH SOK): 138 KV LINES AND TRANSFORMER AT SUBSTATION RED DEER 63S-B OUTAGE
WED, MAR 02 2011 10:18

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-732

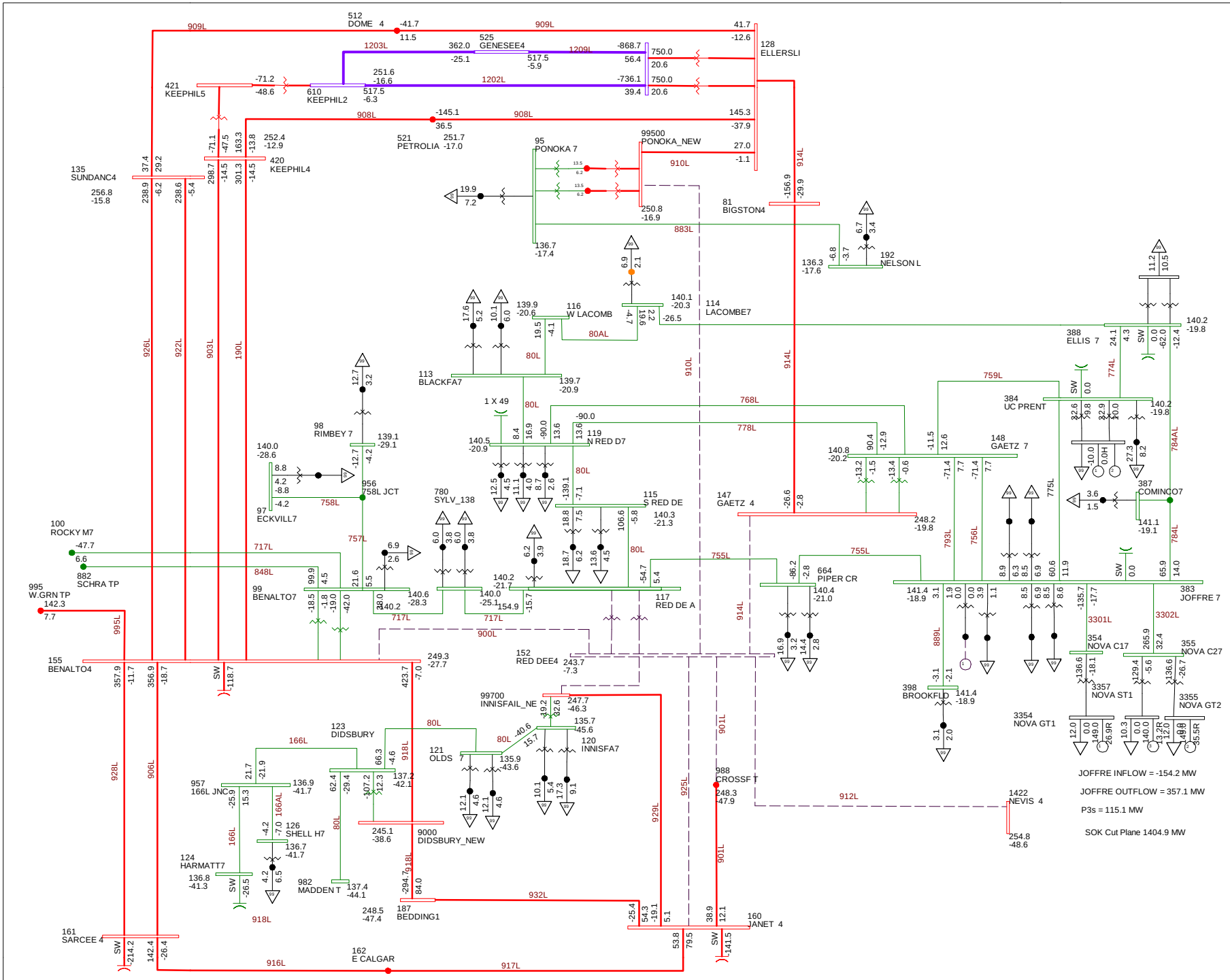


RED DEER REGION STUDY
2012 S3_SOK_PK (2012 SUMMER PEAK CASE)

FIG 2012-ALT2-LOAD-SP-D8-3(HIGH SOK): 240 KV LINES AND TRANSFORMER AT SUBSTATION RED DEER 63S OUTAGE
WED, MAR 02 2011 10:18

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-733

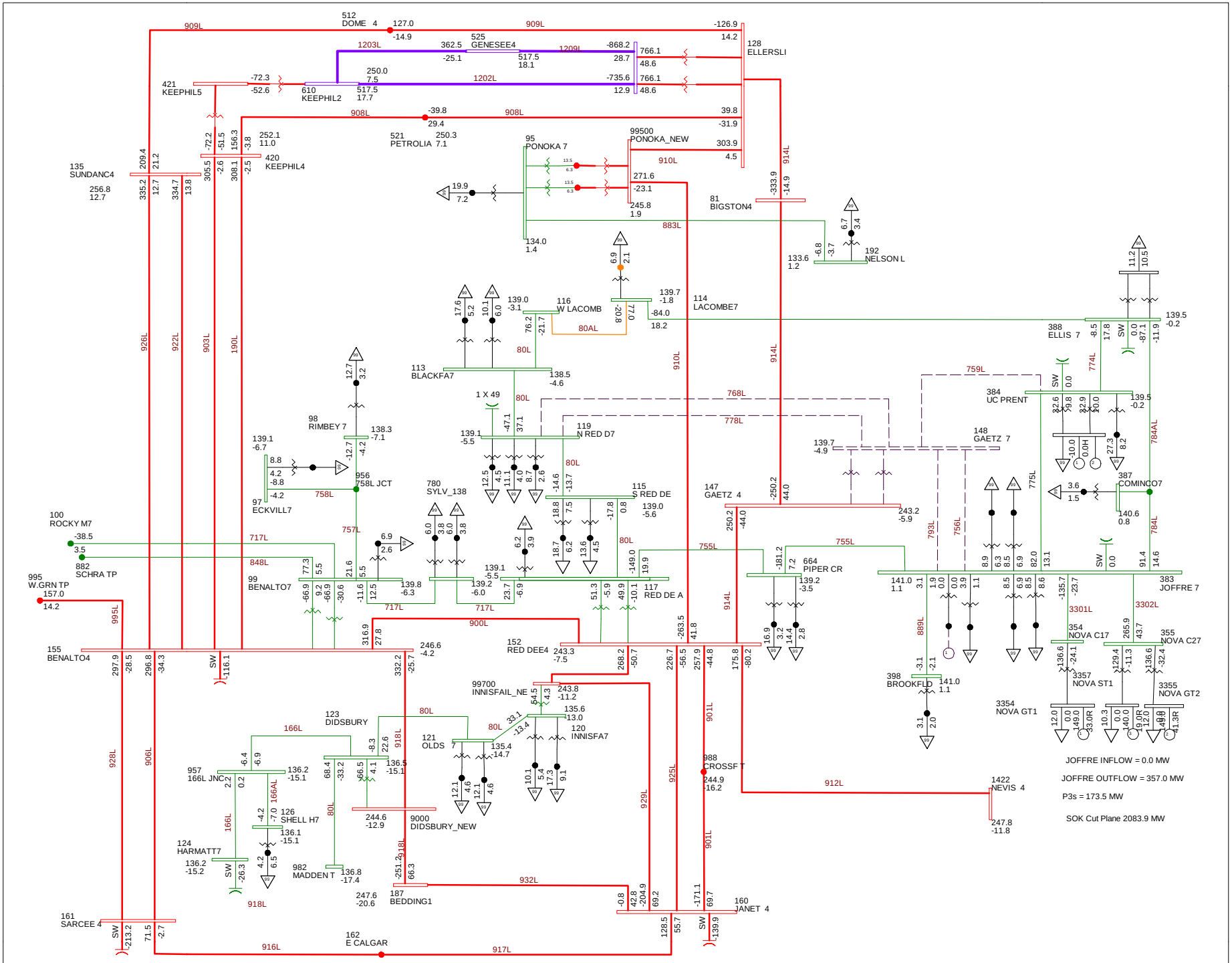


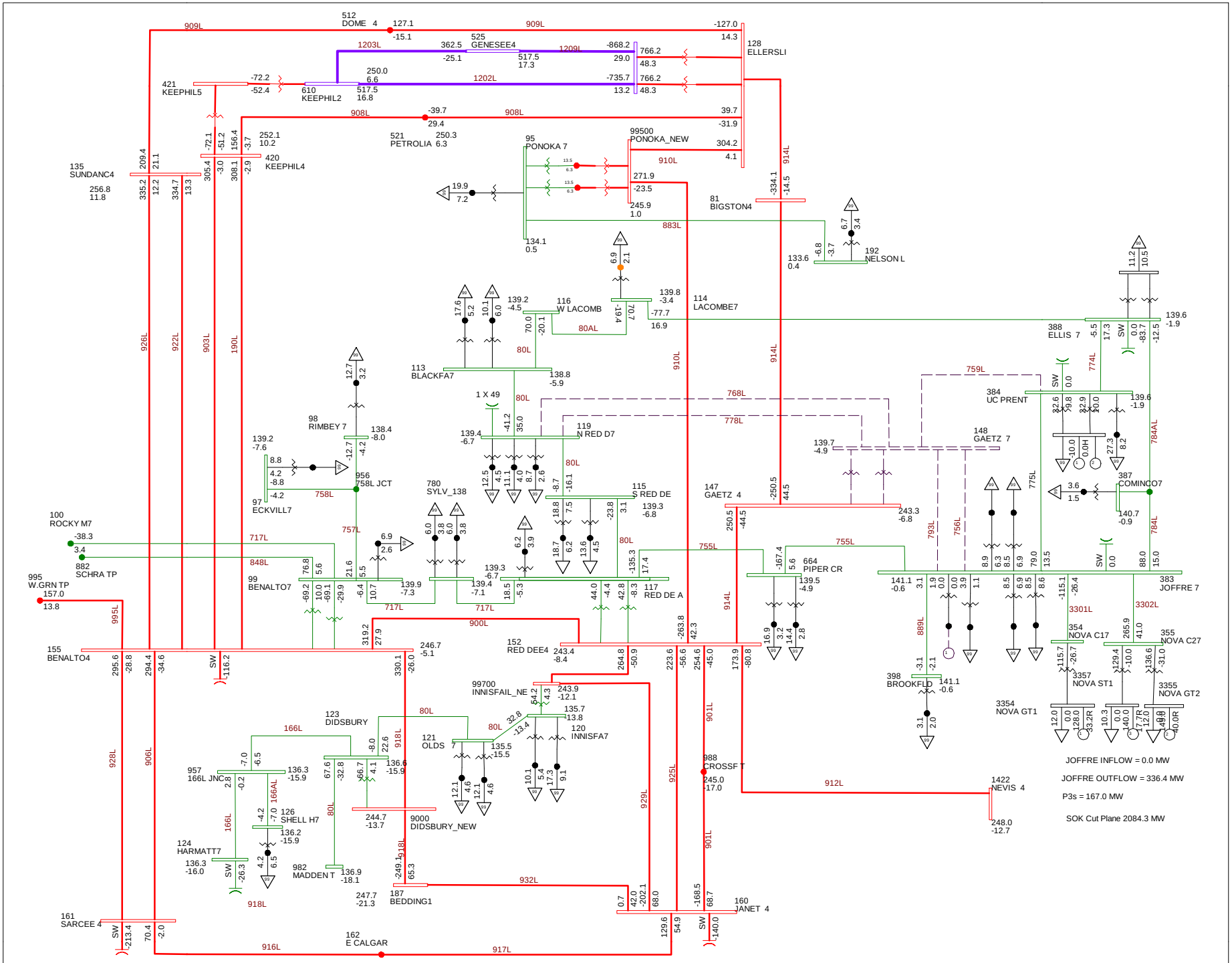
RED DEER REGION STUDY
2012 S3_SOK_PK (2012 SUMMER PEAK CASE)

FIG 2012-ALT2-LOAD-SP-D8-3-1(HIGH SOK): 240 KV LINES AND TRANSFORMER AT SUBSTATION RED DEER 63S OUTAGE WITH RAS
WED, MAR 02 2011 10:18

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-734


512
DOME 4
127.0
-14.9
909L
525
GENESEE4
362.5
-25.1
1203L
517.5
18.1
1209L
-868.2
28.7
766.1
48.6
-126.9
14.2
128
ELLERSLI
250.0
7.5
1202L
-735.6
12.9
766.1
48.6
421
KEEPHIL5
-72.3
-52.6
610
KEEPHIL2
517.5
17.7
908L
-39.8
29.4
908L
39.8
-31.9
521
PETROLIA
250.3
7.1
252.1
11.0
420
KEEPHIL4
135
SUNDANC4
256.8
12.7
95
PONOKA 7
99500
PONOKA_NEW
303.9
4.5
910L
271.6
-23.1
245.8
1.9
19.9
7.2
134.0
1.4
914L
-333.9
-14.9
81
BIGSTON4
883L
6.7
3.4
192
NELSON L
133.6
1.2
6.9
2.1
139.7
-1.8
77.0
-20.8
-84.0
18.2
114
LACOMBE7
80AL
116
W LACOMB
139.0
-3.1
76.2
-21.7
80L
113
BLACKFA7
138.5
-4.6
17.6
5.2
10.1
6.0
926L
922L
903L
190L
910L
914L
759L
768L
778L
784AL
774L
775L
793L
756L
784L
3302L
3301L
889L
901L
925L
929L
928L
906L
918L
932L
916L
917L
995L
717L
757L
758L
848L
900L
912L
1 X 49
80L
119
N RED D7
139.1
-5.5
-47.1
37.1
98
RIMBEY 7
138.3
-7.1
12.7
3.2
-12.7
-4.2
139.1
-6.7
8.8
4.2
-8.8
-4.2
97
ECKVILL7
956
758L JCT
780
SYLV_138
115
S RED DE
12.5
4.5
11.1
4.0
8.7
2.6
-14.6
-13.7
18.8
7.5
-17.8
0.8
139.0
-5.6
18.7
6.2
13.6
4.5
-149.0
19.9
139.1
-5.5
139.2
-6.0
23.7
-6.9
51.3
-5.9
49.9
-10.1
117
RED DE A
6.9
2.6
6.0
3.8
6.0
3.8
6.2
3.9
100
ROCKY M7
-38.5
3.5
882
SCHRA TP
995
W.GRN TP
157.0
14.2
99
BENALTO7
77.3
5.5
-66.9
9.2
-66.9
-30.6
21.6
5.5
-11.6
12.5
139.8
-6.3
316.9
27.8
155
BENALTO4
297.9
-28.5
296.8
-34.3
SW
-116.1
332.2
-25.7
246.6
-4.2
147
GAETZ 4
-250.2
44.0
250.2
-44.0
243.2
-5.9
664
PIPER CR
-181.2
7.2
139.2
-3.5
16.9
3.2
14.4
2.8
152
RED DEE4
243.3
-7.5
268.2
-50.7
226.7
-56.5
257.9
-44.8
175.8
-80.2
-263.5
41.8
988
CROSSFT
244.9
-16.2
1422
NEVIS 4
247.8
-11.8
148
GAETZ 7
139.7
-4.9
384
UC PRENT
139.5
-0.2
388
ELLIS 7
-8.5
17.8
SW
0.0
-87.1
-11.9
11.2
10.5
139.5
-0.2
387
COMINCO7
3.6
1.5
140.6
0.8
383
JOFFRE 7
141.0
1.1
3.1
1.9
0.0
3.9
1.1
8.5
6.3
8.5
6.9
8.5
8.6
82.0
13.1
-135.7
-23.7
SW
0.0
91.4
14.6
354
NOVA C17
265.9
43.7
355
NOVA C27
136.6
-24.1
129.4
-11.3
136.6
-32.4
3357
NOVA ST1
3355
NOVA GT2
398
BROOKFLD
141.0
1.1
3.1
2.1
3.1
2.0
3354
NOVA GT1
12.0
0.0
149.0
-33.0R
10.3
0.0
140.0
-19.0R
12.0
0.0
149.0
-41.3R
JOFFRE INFLOW = 0.0 MW
JOFFRE OUTFLOW = 357.0 MW
P3s = 173.5 MW
SOK Cut Plane 2083.9 MW
99700
INNISFAIL_NE
243.8
-11.2
54.5
-4.3
135.6
-13.0
-33.1
-13.4
120
INNISFA7
123
DIDSBURY
166L
-6.4
-6.9
957
166L JNC
136.2
-15.1
2.2
0.2
166AL
-4.2
-7.0
126
SHELL H7
136.1
-15.1
124
HARMATT7
136.2
-15.2
SW
-26.3
4.2
6.5
8.3
22.6
68.4
-33.2
66.5
4.1
136.5
-15.1
244.6
-12.9
9000
DIDSBURY_NEW
121
OLDS 7
135.4
-14.7
12.1
4.6
12.1
4.6
10.1
5.4
17.3
9.1
982
MADDEN T
136.8
-17.4
247.6
-20.6
187
BEDDING1
-251.2
66.3
-0.8
42.8
-204.9
69.2
-171.1
69.7
160
JANET 4
128.5
55.7
SW
-139.9
161
SARCEE 4
SW
-213.2
71.5
-2.7
162
E CALGAR
D-2012-735
RED DEER REGION STUDY
2012 S3_SOK_PK (2012 SUMMER PEAK CASE)
FIG 2012-ALT2-LOAD-SP-D8-4(HIGH SOK): 138 KV LINES
AND TRANSFORMER AT SUBSTATION GAETZ 87S OUTAGE
WED, MAR 02 2011 10:18
Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000
<=138.000
>500.000
<=34.500
<=240.000
<=500.000



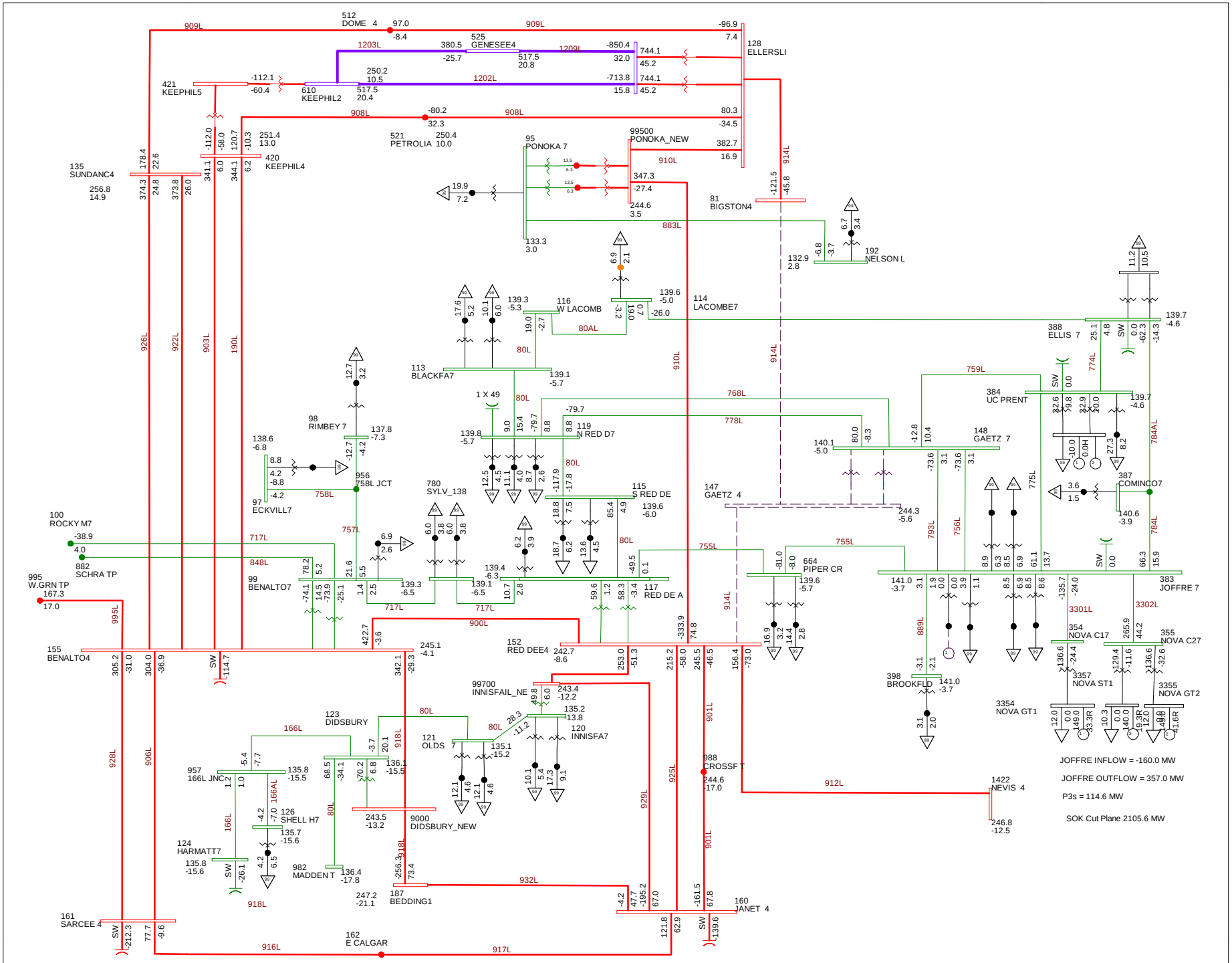
RED DEER REGION STUDY

2012 S3_SOK_PK (2012 SUMMER PEAK CASE)

FIG 2012-ALT2-LOAD-SP-D8-4-1(HIGH SOK): 138 KV LINES AND TRANSFORMER AT SUBSTATION GAETZ 87S OUTAGEWITH RAS
WED, MAR 02 2011 10:18

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-736

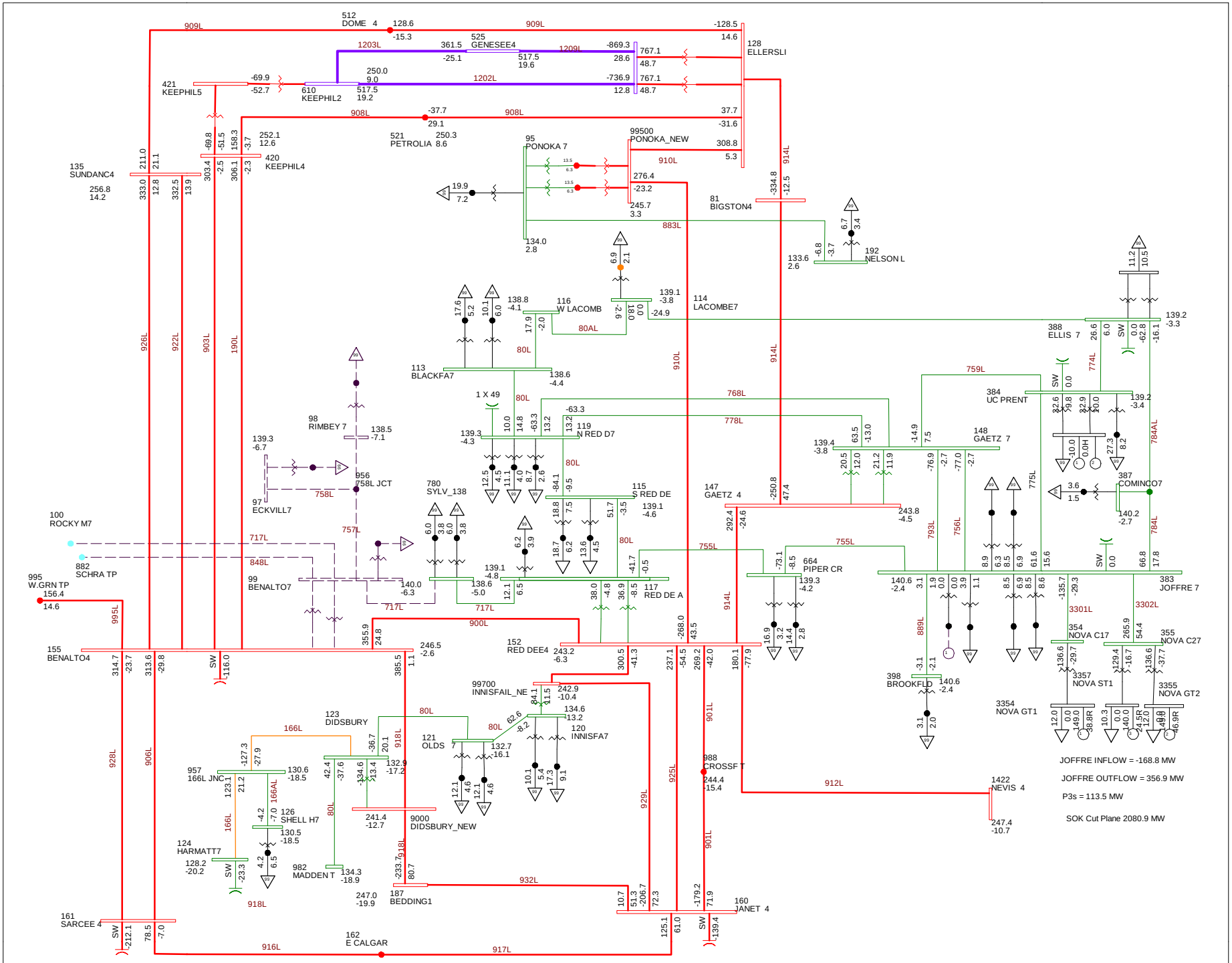


RED DEER REGION STUDY
2012 S3_SOK_PK (2012 SUMMER PEAK CASE)

FIG 2012-ALT2-LOAD-SP-D8-5(HIGH SOK): 240 KV LINES AND TRANSFORMER AT SUBSTATION GAETZ 87S OUTAGE
WED, MAR 02 2011 10:18

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-737

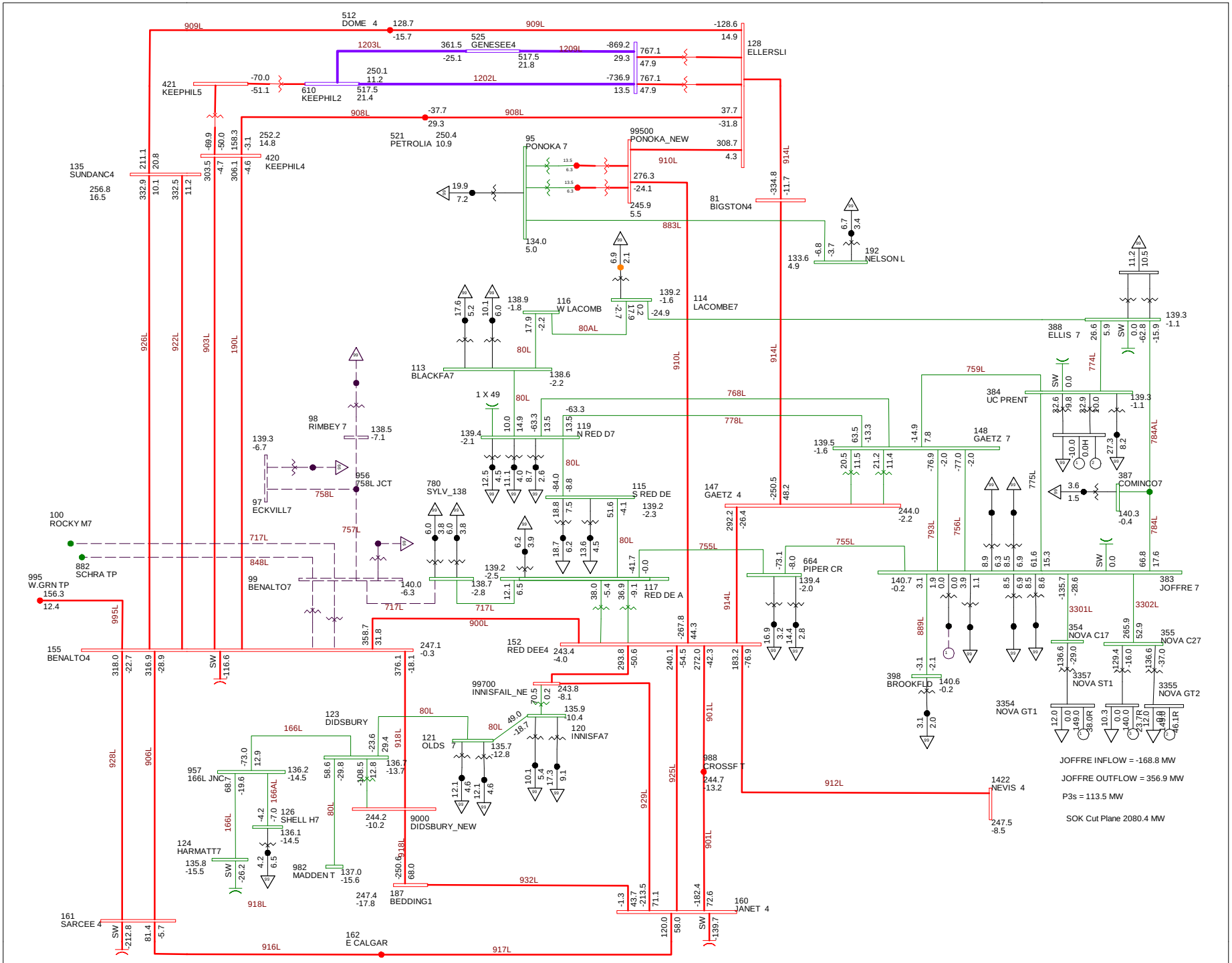


RED DEER REGION STUDY
2012 S3_SOK_PK (2012 SUMMER PEAK CASE)

FIG 2012-ALT2-LOAD-SP-D8-6(HIGH SOK): 138 KV LINES AND TRANSFORMER AT SUBSTATION BENALTO 17S OUTAGE
WED, MAR 02 2011 10:18

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-738

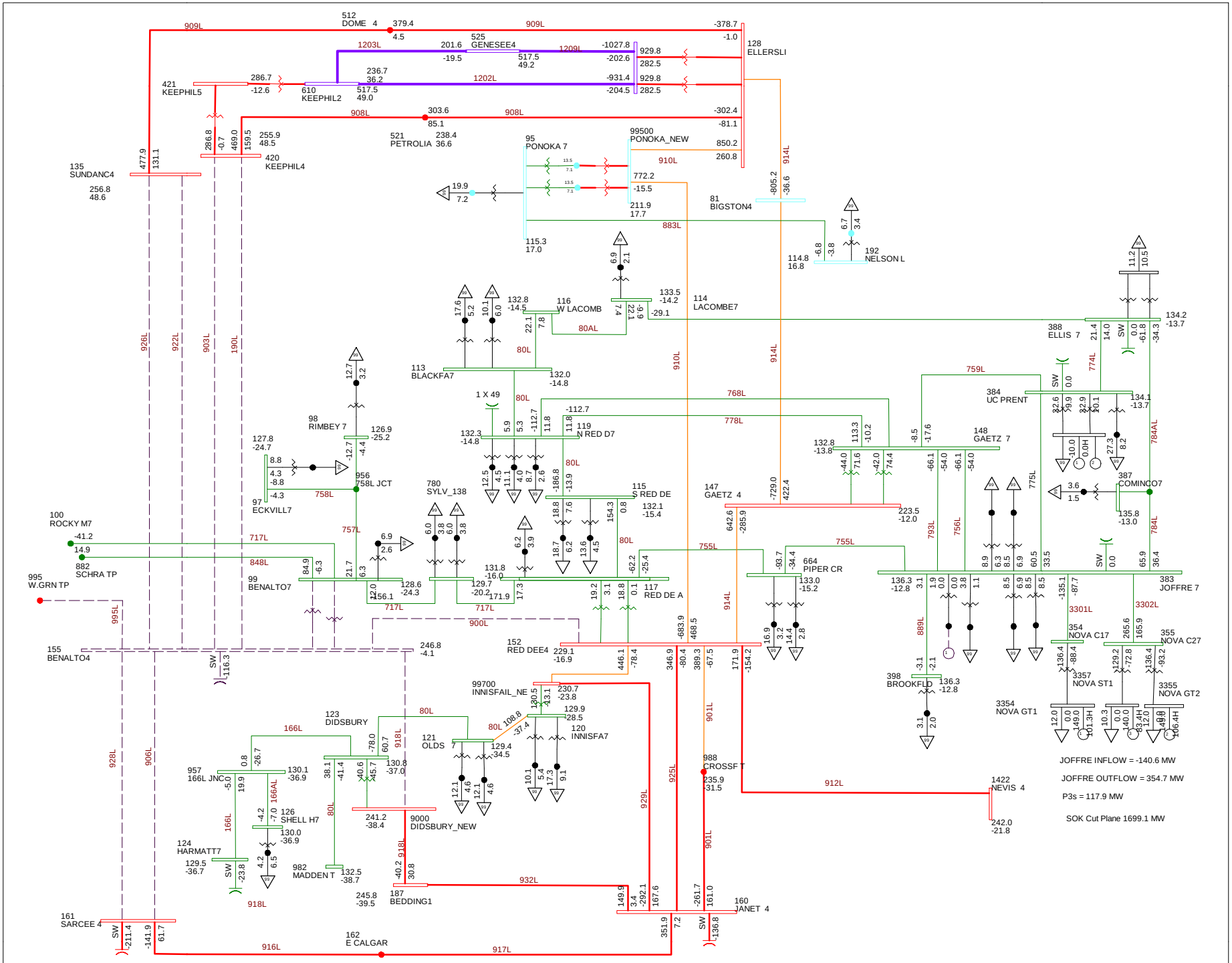


RED DEER REGION STUDY
2012 S3_SOK_PK (2012 SUMMER PEAK CASE)

FIG 2012-ALT2-LOAD-SP-D8-6-1(HIGH SOK): 138 KV LINES AND TRANSFORMER AT SUBSTATION BENALTO 17S OUTAGE WITH RAS
WED, MAR 02 2011 10:18

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-739

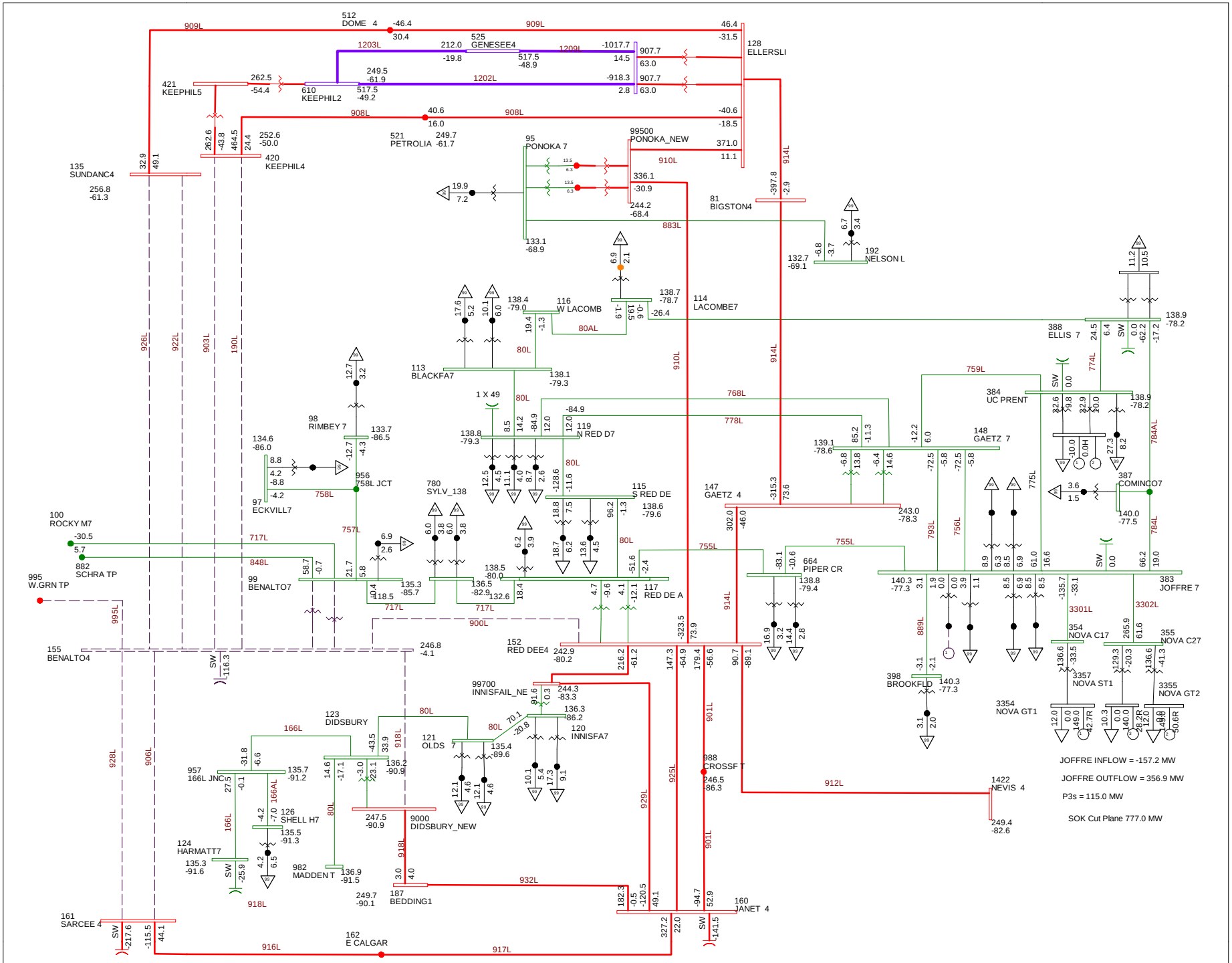


RED DEER REGION STUDY
2012 S3_SOK_PK (2012 SUMMER PEAK CASE)

FIG 2012-ALT2-LOAD-SP-D8-7(HIGH SOK): 240 KV LINES AND TRANSFORMER AT SUBSTATION BENALTO 17S OUTAGE
WED, MAR 02 2011 10:18

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-740

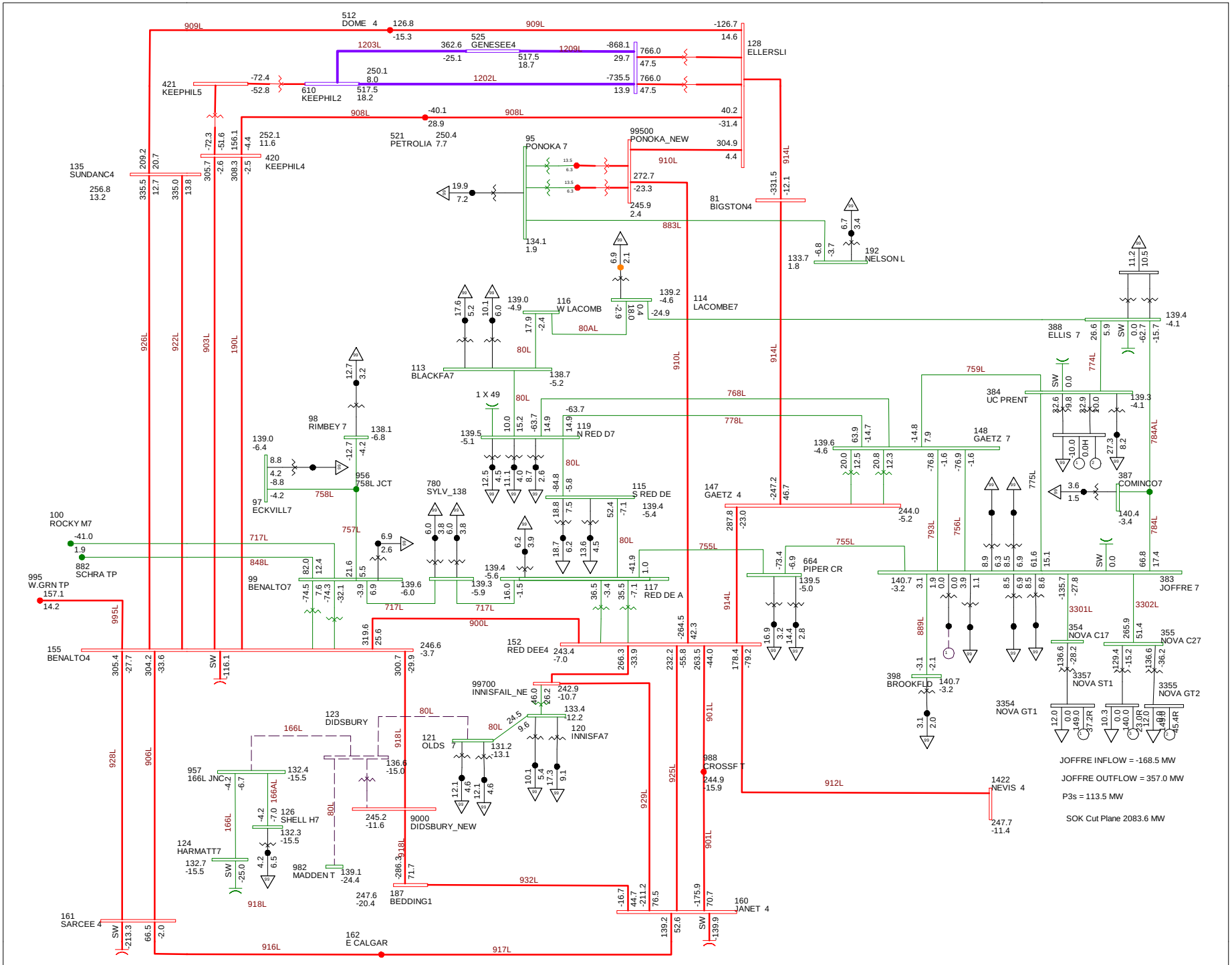


RED DEER REGION STUDY
2012 S3_SOK_PK (2012 SUMMER PEAK CASE)

FIG 2012-ALT2-LOAD-SP-D8-7-1(HIGH SOK): 240 KV LINES AND TRANSFORMER AT SUBSTATION BENALTO 17S OUTAGE WITH RAS
WED, MAR 02 2011 10:18

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-741



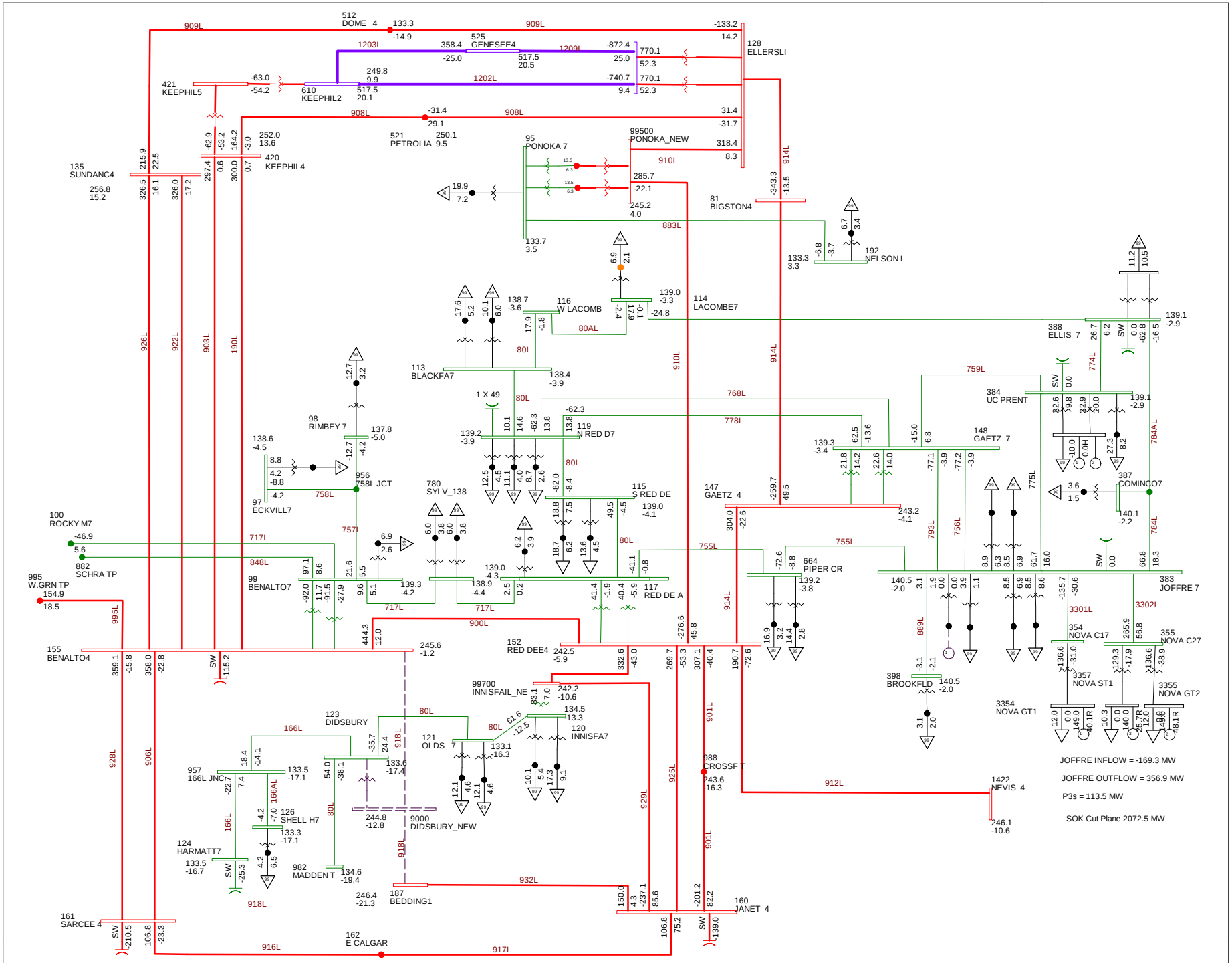
RED DEER REGION STUDY

2012 S3_SOK_PK (2012 SUMMER PEAK CASE)

FIG 2012-ALT2-LOAD-SP-D8-8(HIGH SOK): 138 KV LINES AND TRANSFORMER AT SUBSTATION DIDSBURY (152S) OUTAGE
WED, MAR 02 2011 10:18

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-742

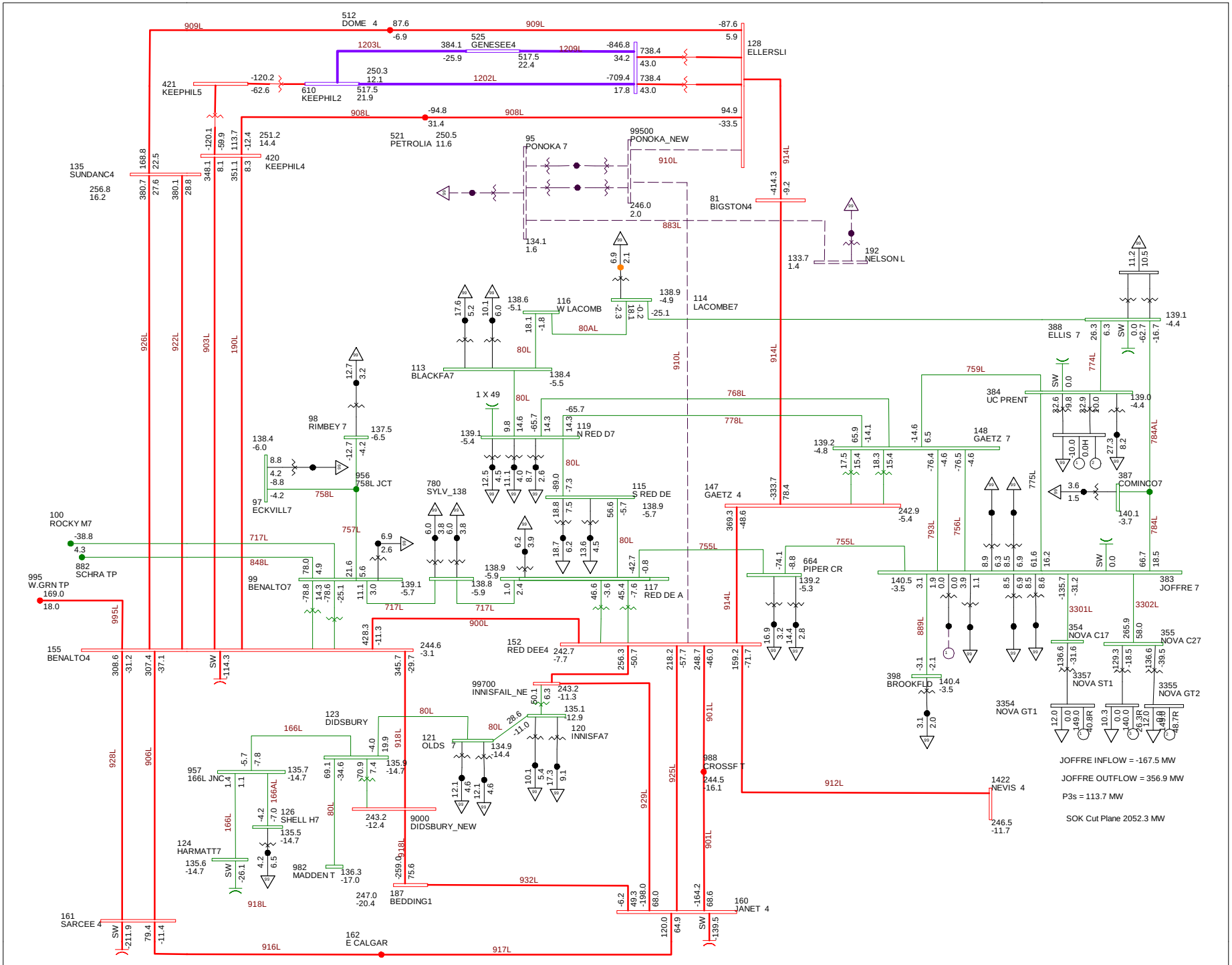


RED DEER REGION STUDY
2012 S3_SOK_PK (2012 SUMMER PEAK CASE)

FIG 2012-ALT2-LOAD-SP-D8-9(HIGH SOK): 240 KV LINES AND TRANSFORMER AT SUBSTATION DIDSBURY (152S) OUTAGE
WED, MAR 02 2011 10:18

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-743

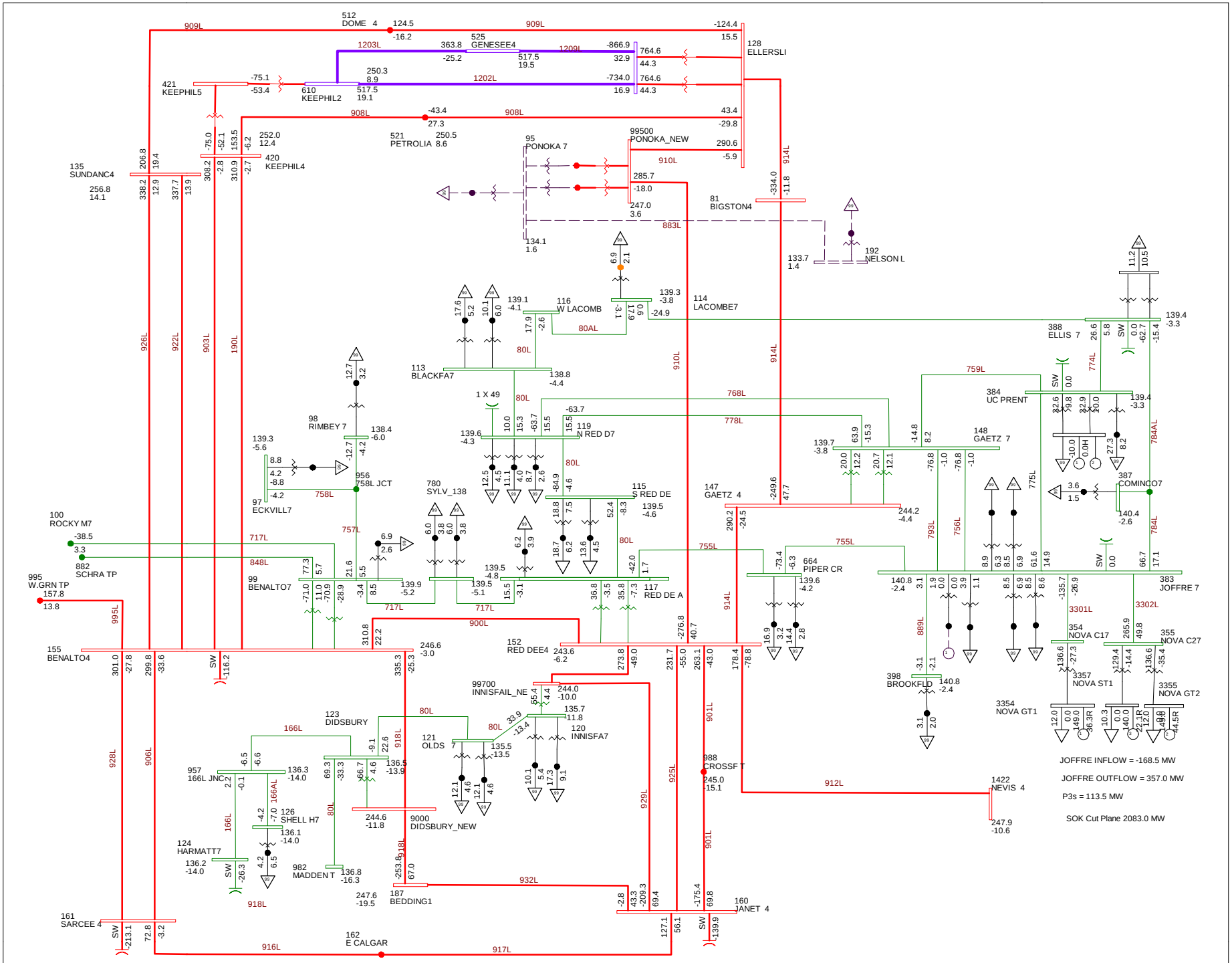


RED DEER REGION STUDY
2012 S3_SOK_PK (2012 SUMMER PEAK CASE)

FIG 2012-ALT2-LOAD-SP-D8-10(HIGH SOK): 240 KV LINES A ND TRANSFORMER AT SUBSTATION PONOKA 331S OUTAGE
WED, MAR 02 2011 10:18

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-744

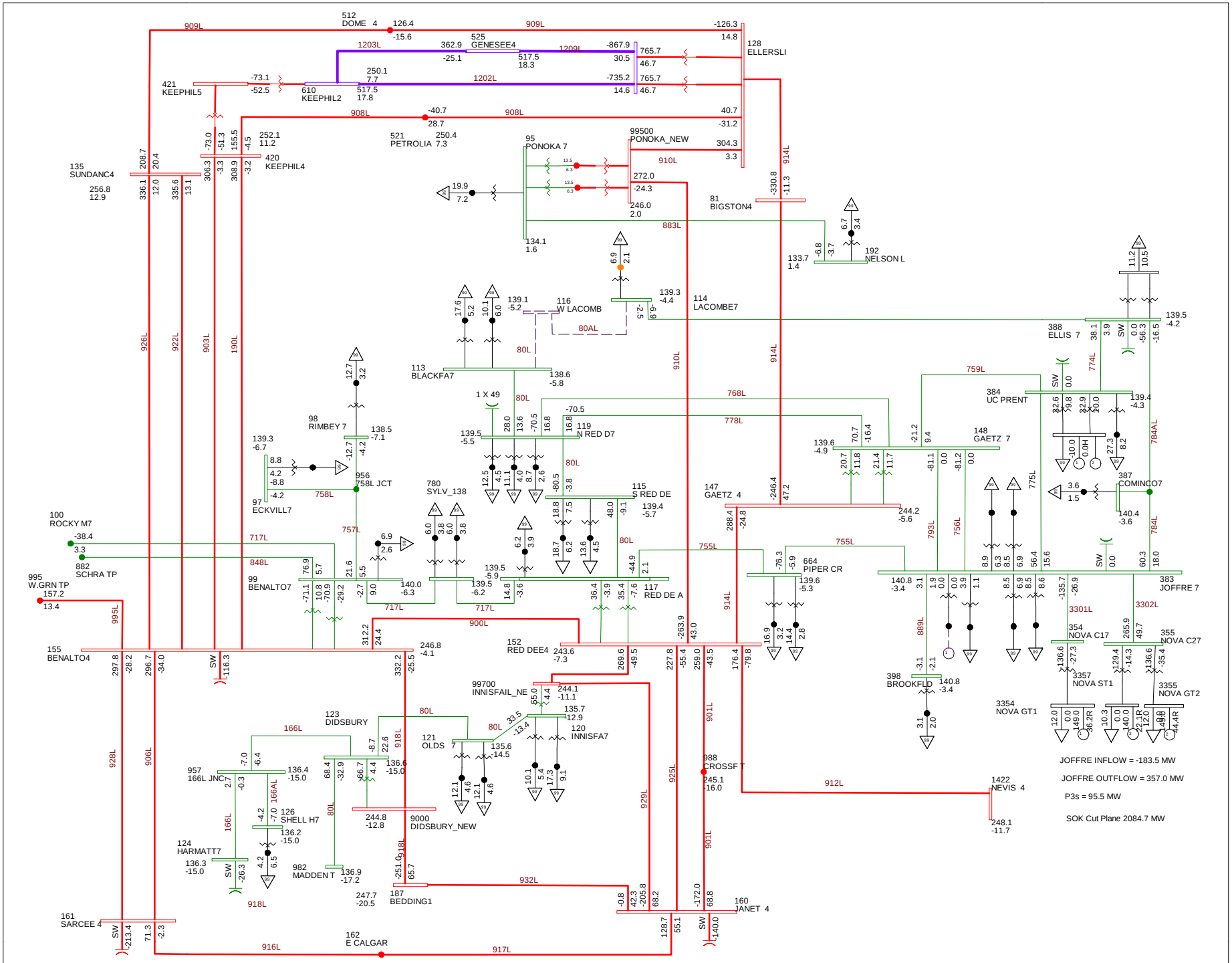


RED DEER REGION STUDY
2012 S3_SOK_PK (2012 SUMMER PEAK CASE)

FIG 2012-ALT2-LOAD-SP-D8-11(HIGH SOK): 138 KV LINES AND TRANSFORMER AT SUBSTATION PONOKA 331S OUTAGE
WED, MAR 02 2011 10:18

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-745

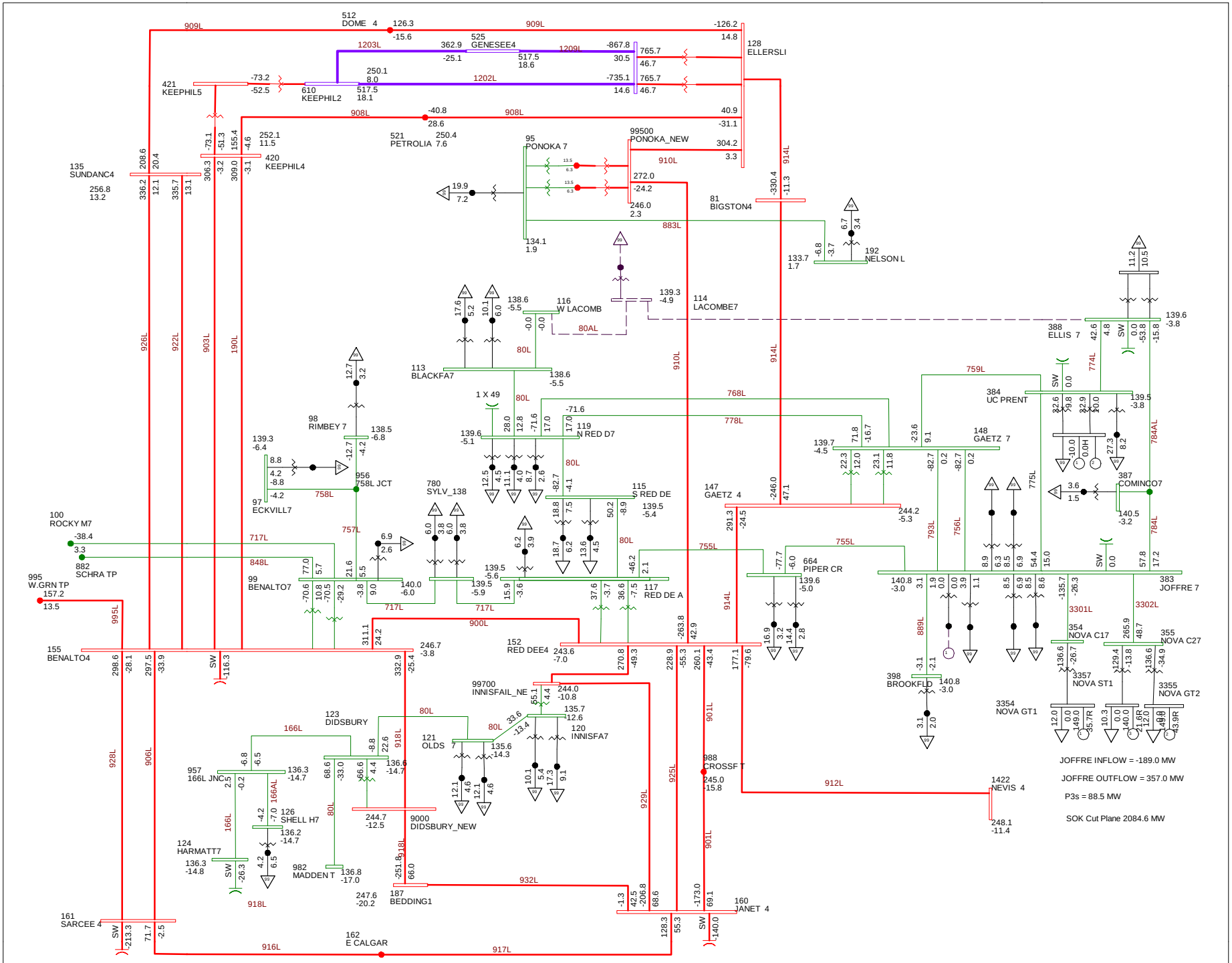


RED DEER REGION STUDY
2012 S3_SOK_PK (2012 SUMMER PEAK CASE)

FIG 2012-ALT2-LOAD-SP-D8-12(HIGH SOK):
138 KV SUBSTATION W. LACOMBE 958S OUTAGE
WED, MAR 02 2011 10:18

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-746

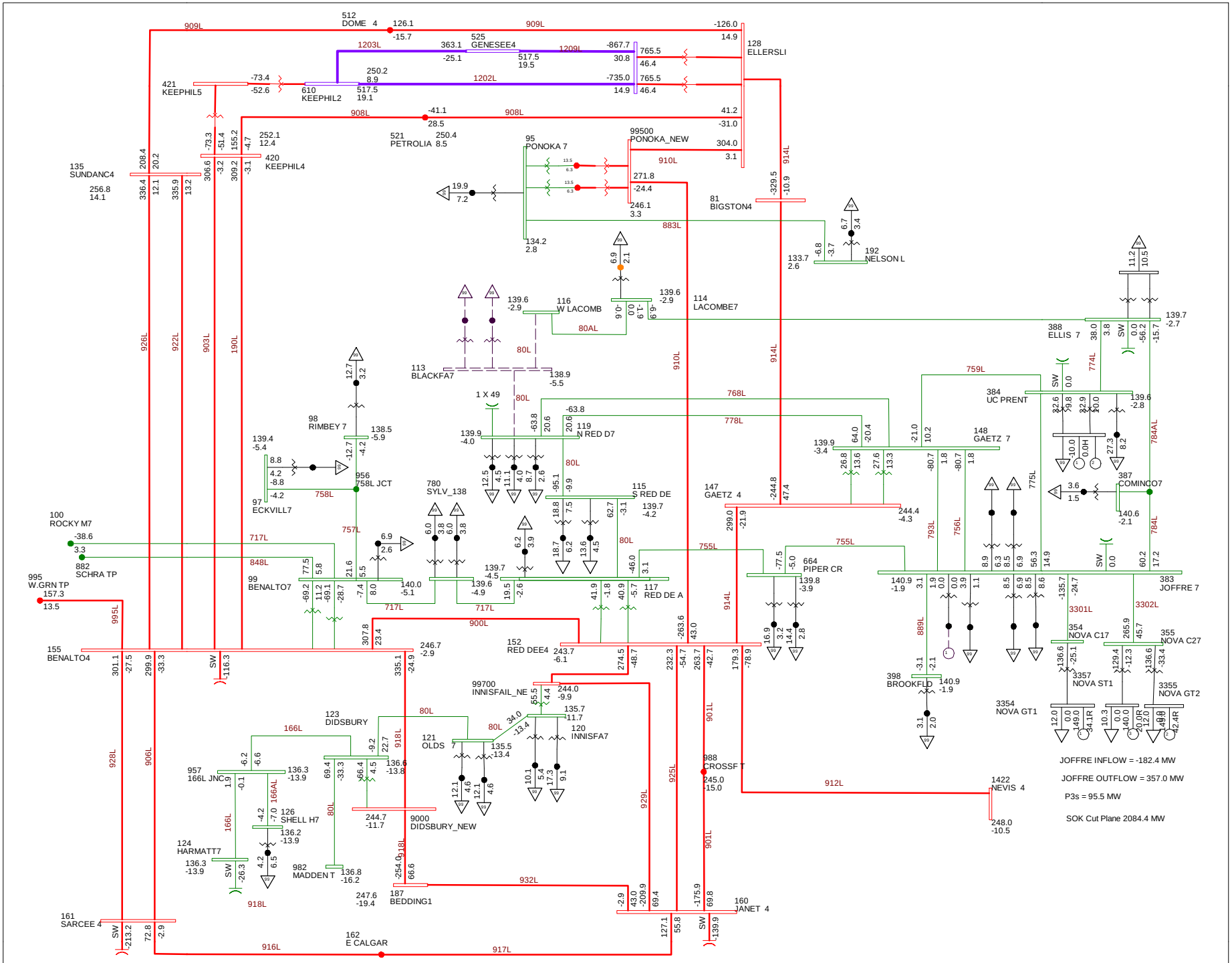


RED DEER REGION STUDY
2012 S3_SOK_PK (2012 SUMMER PEAK CASE)

FIG 2012-ALT2-LOAD-SP-D8-13(HIGH SOK):
138 KV SUBSTATION N.E. LACOMBE 212S OUTAGE
WED, MAR 02 2011 10:18

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-747

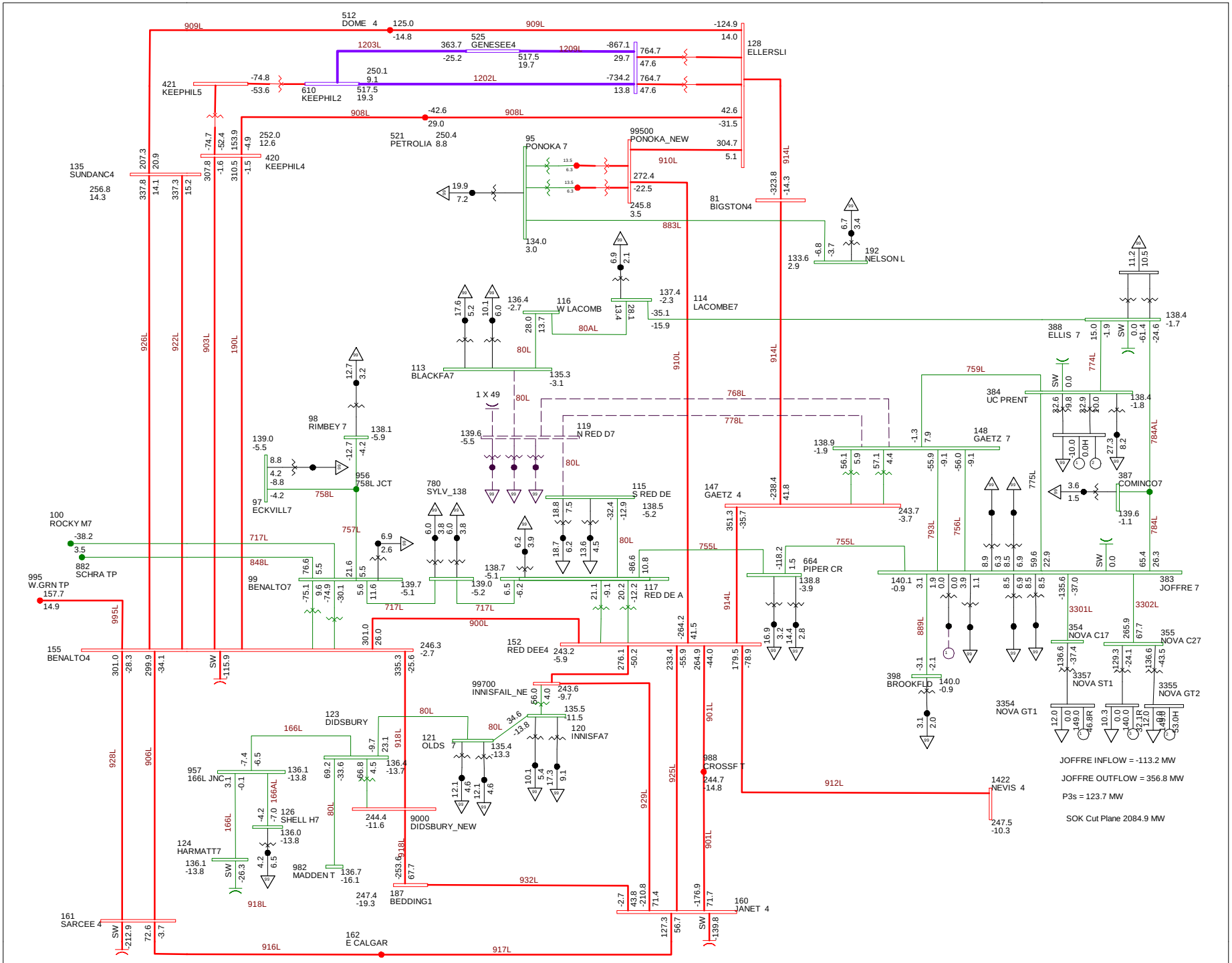


RED DEER REGION STUDY
2012 S3_SOK_PK (2012 SUMMER PEAK CASE)

FIG 2012-ALT2-LOAD-SP-D8-14(HIGH SOK):
138 KV SUBSTATION BLACKFALDS 198S OUTAGE
WED, MAR 02 2011 10:18

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-748

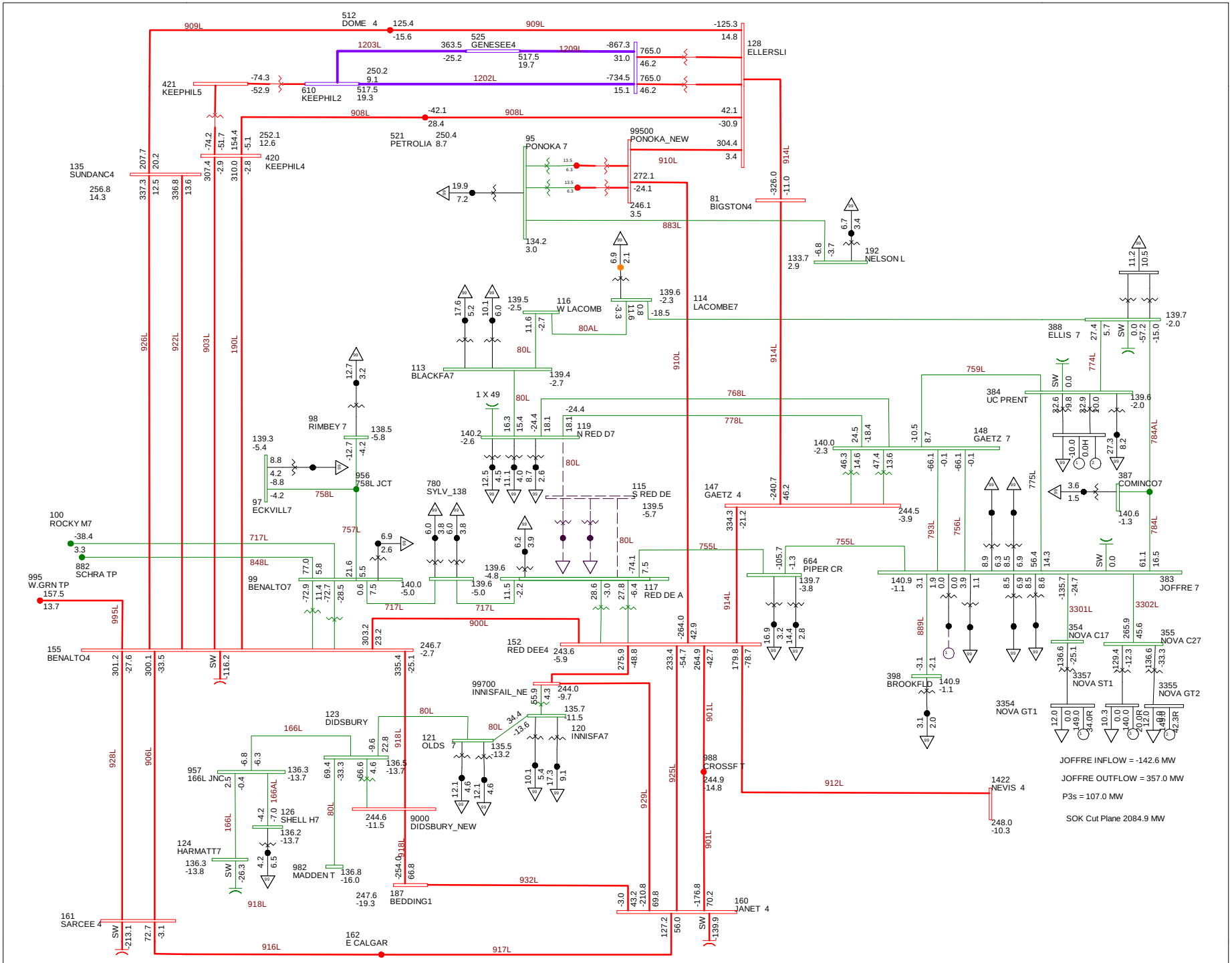


RED DEER REGION STUDY
2012 S3_SOK_PK (2012 SUMMER PEAK CASE)

FIG 2012-ALT2-LOAD-SP-D8-15(HIGH SOK):
138 KV SUBSTATION N. RED DEER 217S OUTAGE
WED, MAR 02 2011 10:18

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-749

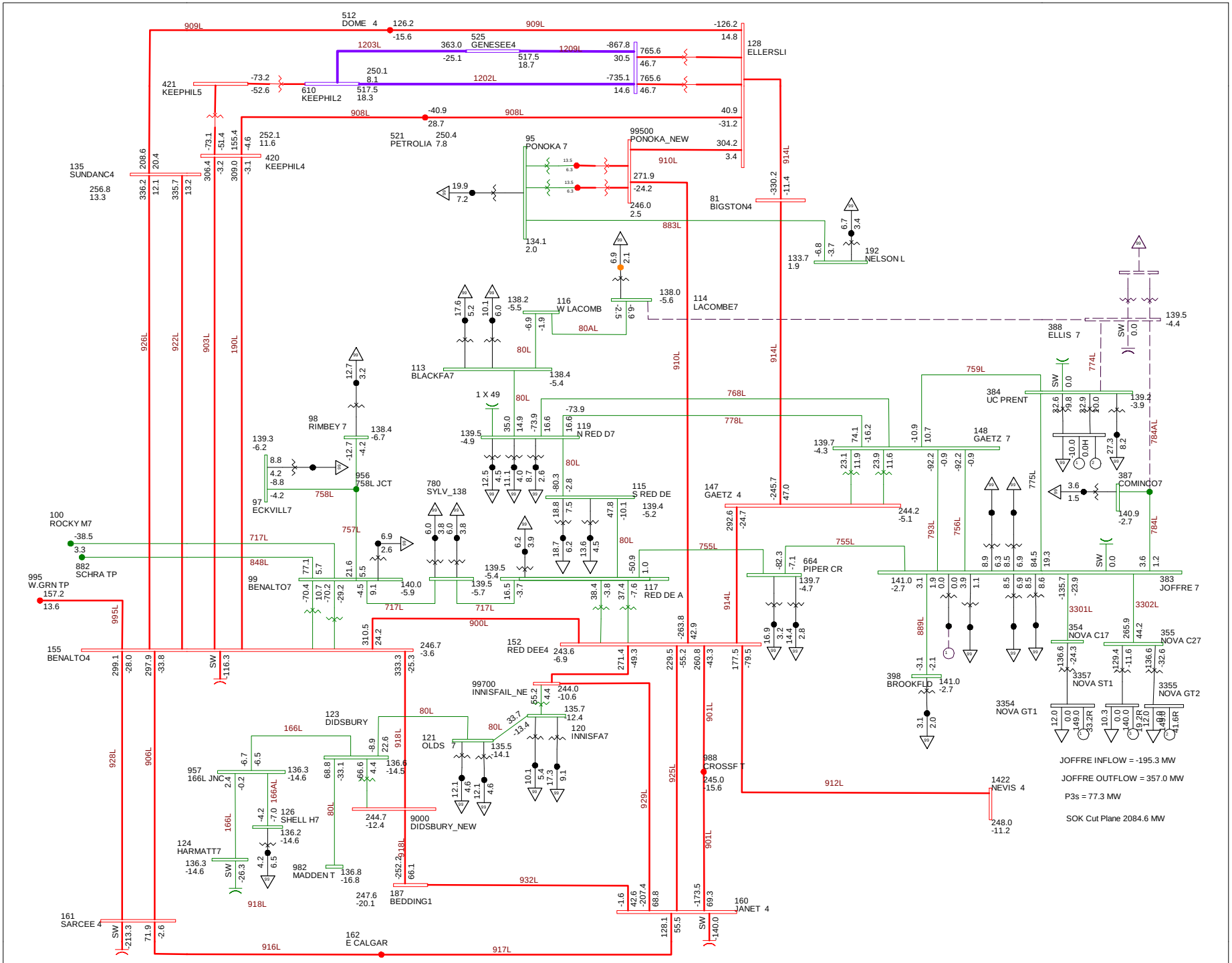


RED DEER REGION STUDY
2012 S3_SOK_PK (2012 SUMMER PEAK CASE)

FIG 2012-ALT2-LOAD-SP-D8-16(HIGH SOK):
138 KV SUBSTATION S. RED DEER 194S OUTAGE
WED, MAR 02 2011 10:18

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-750

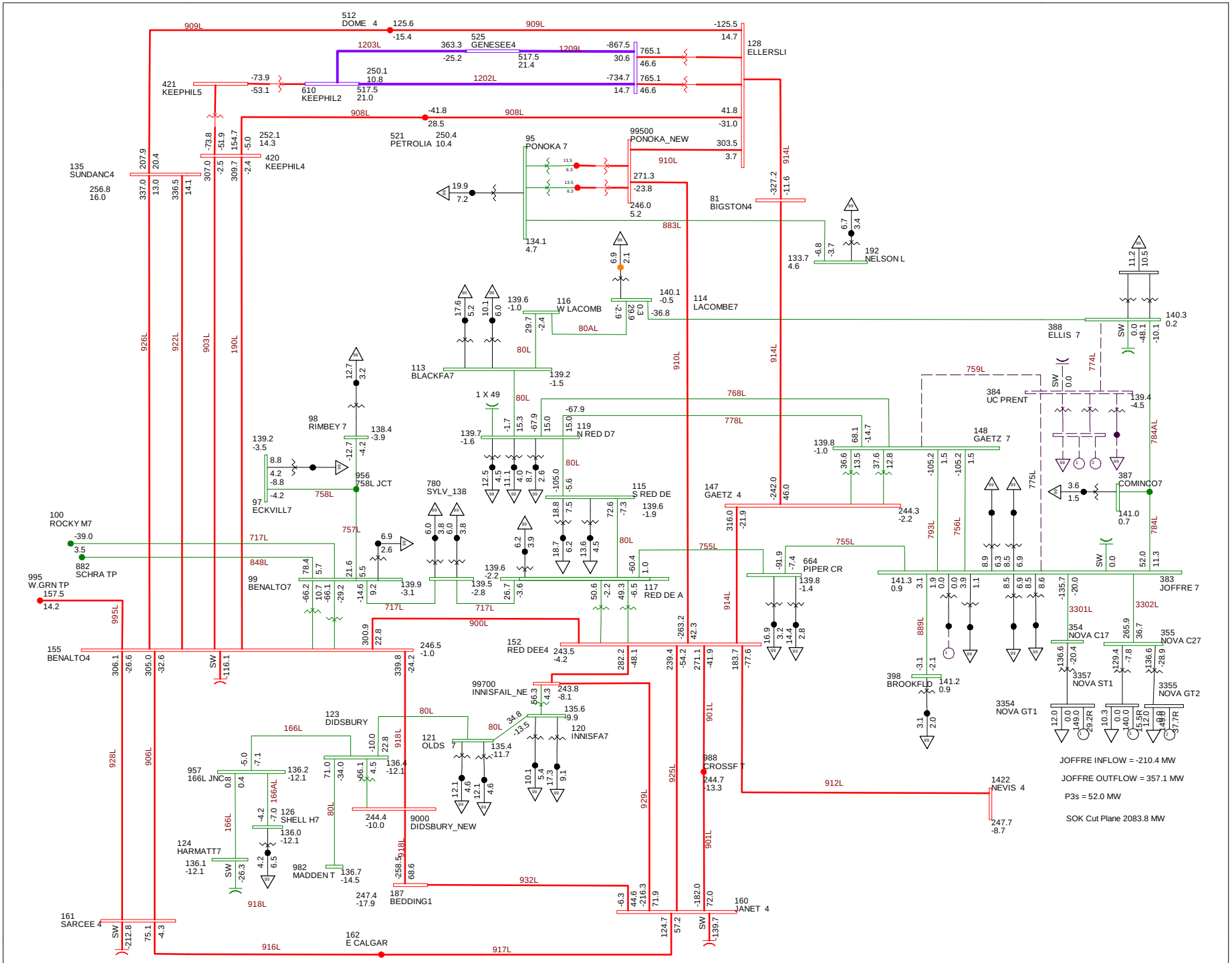


RED DEER REGION STUDY
2012 S3_SOK_PK (2012 SUMMER PEAK CASE)

FIG 2012-ALT2-LOAD-SP-D8-17(HIGH SOK):
138 KV SUBSTATION ELLIS 332S OUTAGE
WED, MAR 02 2011 10:18

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-751

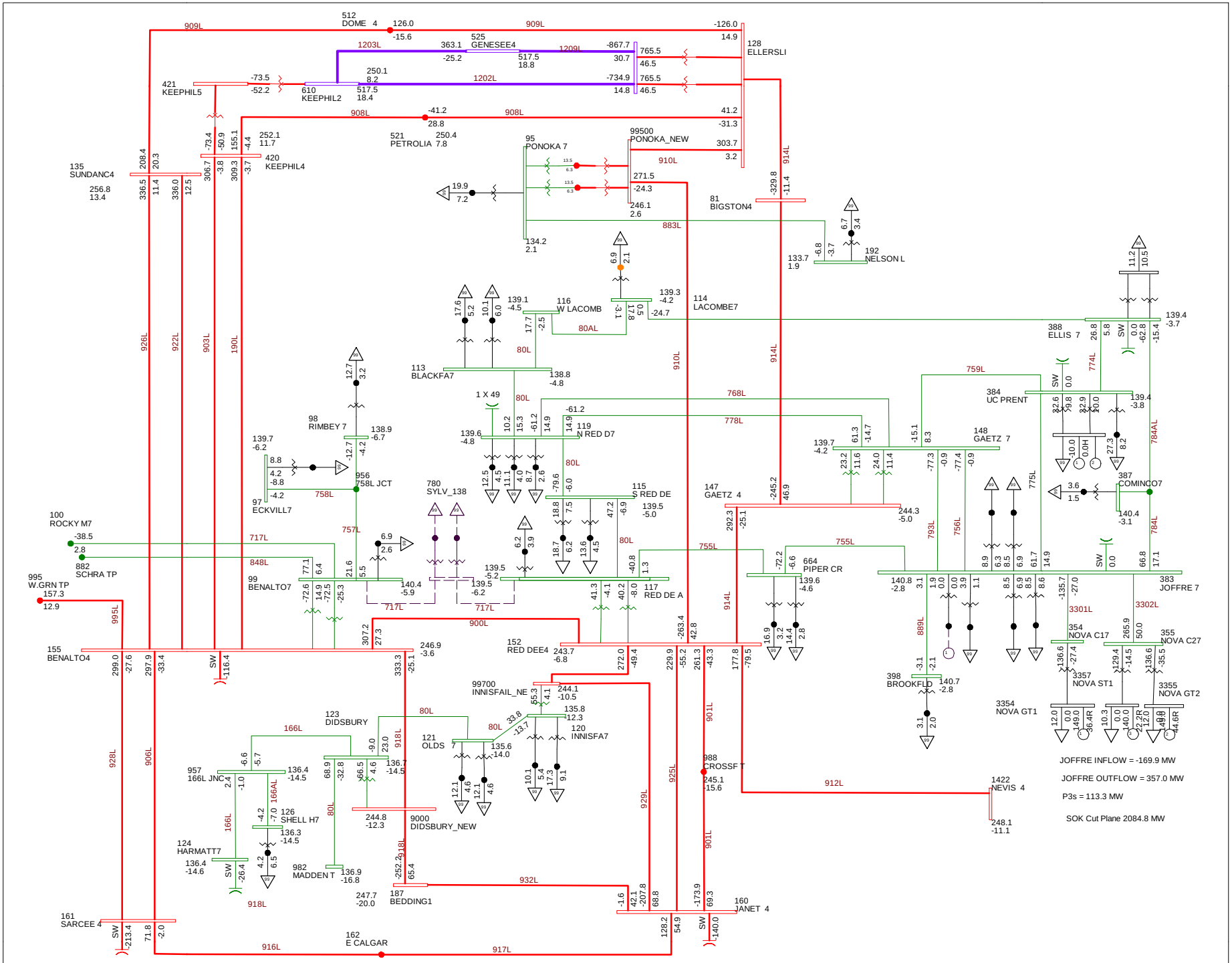


RED DEER REGION STUDY
2012 S3_SOK_PK (2012 SUMMER PEAK CASE)

FIG 2012-ALT2-LOAD-SP-D8-18(HIGH SOK):
138 KV SUBSTATION U.C. PRENTISS 276S OUTAGE
WED, MAR 02 2011 10:18

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-752

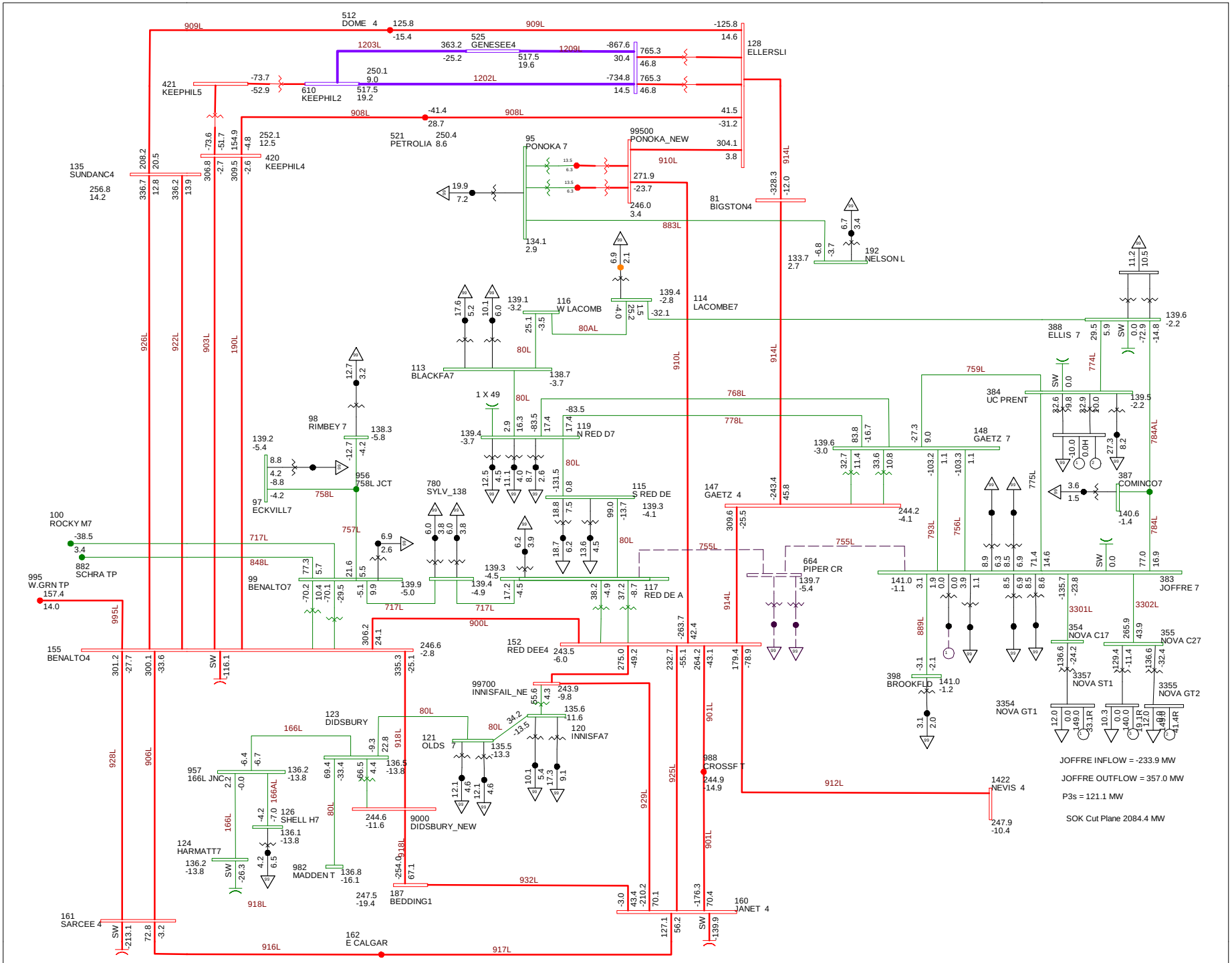


RED DEER REGION STUDY
2012 S3_SOK_PK (2012 SUMMER PEAK CASE)

FIG 2012-ALT2-LOAD-SP-D8-19(HIGH SOK):
138 KV SUBSTATION SYLVAN LAKE 580S OUTAGE
WED, MAR 02 2011 10:18

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-753

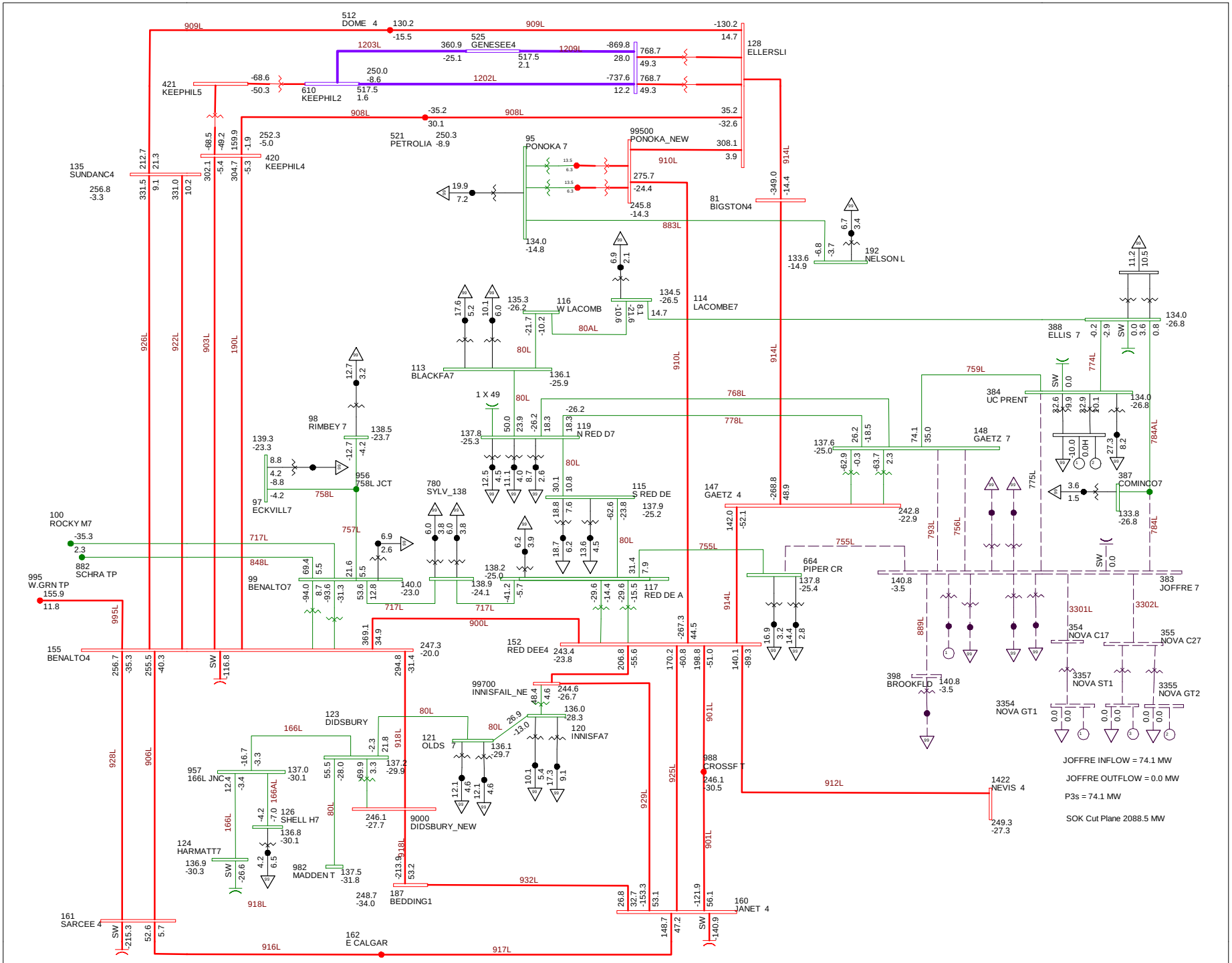


RED DEER REGION STUDY
2012 S3_SOK_PK (2012 SUMMER PEAK CASE)

FIG 2012-ALT2-LOAD-SP-D8-20(HIGH SOK):
138 KV SUBSTATION PIPER CREEK 274S OUTAGE
WED, MAR 02 2011 10:18

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-754

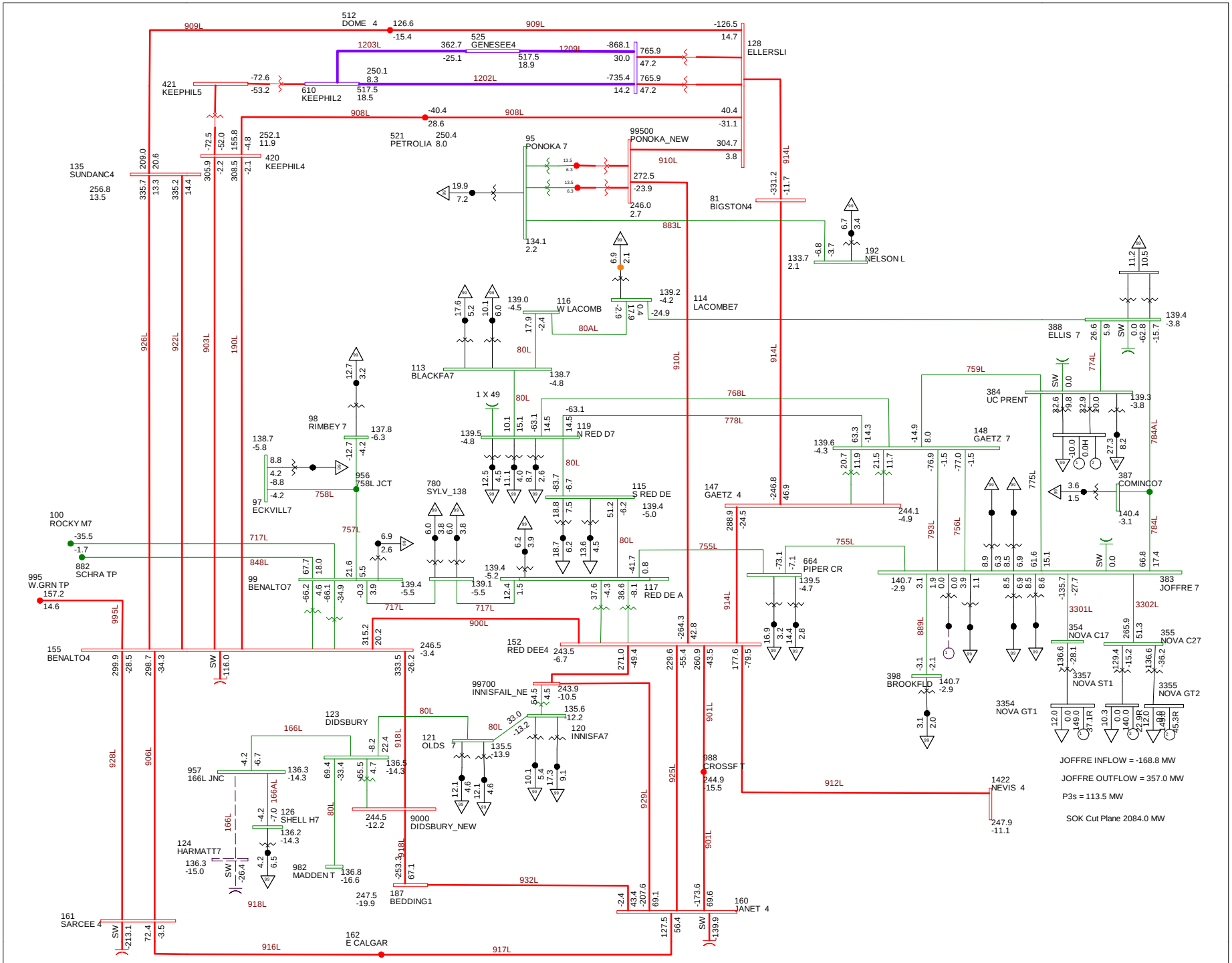


RED DEER REGION STUDY
2012 S3_SOK_PK (2012 SUMMER PEAK CASE)

FIG 2012-ALT2-LOAD-SP-D8-21(HIGH SOK):
138 KV SUBSTATION JOFFRE 535S OUTAGE
WED, MAR 02 2011 10:18

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-755

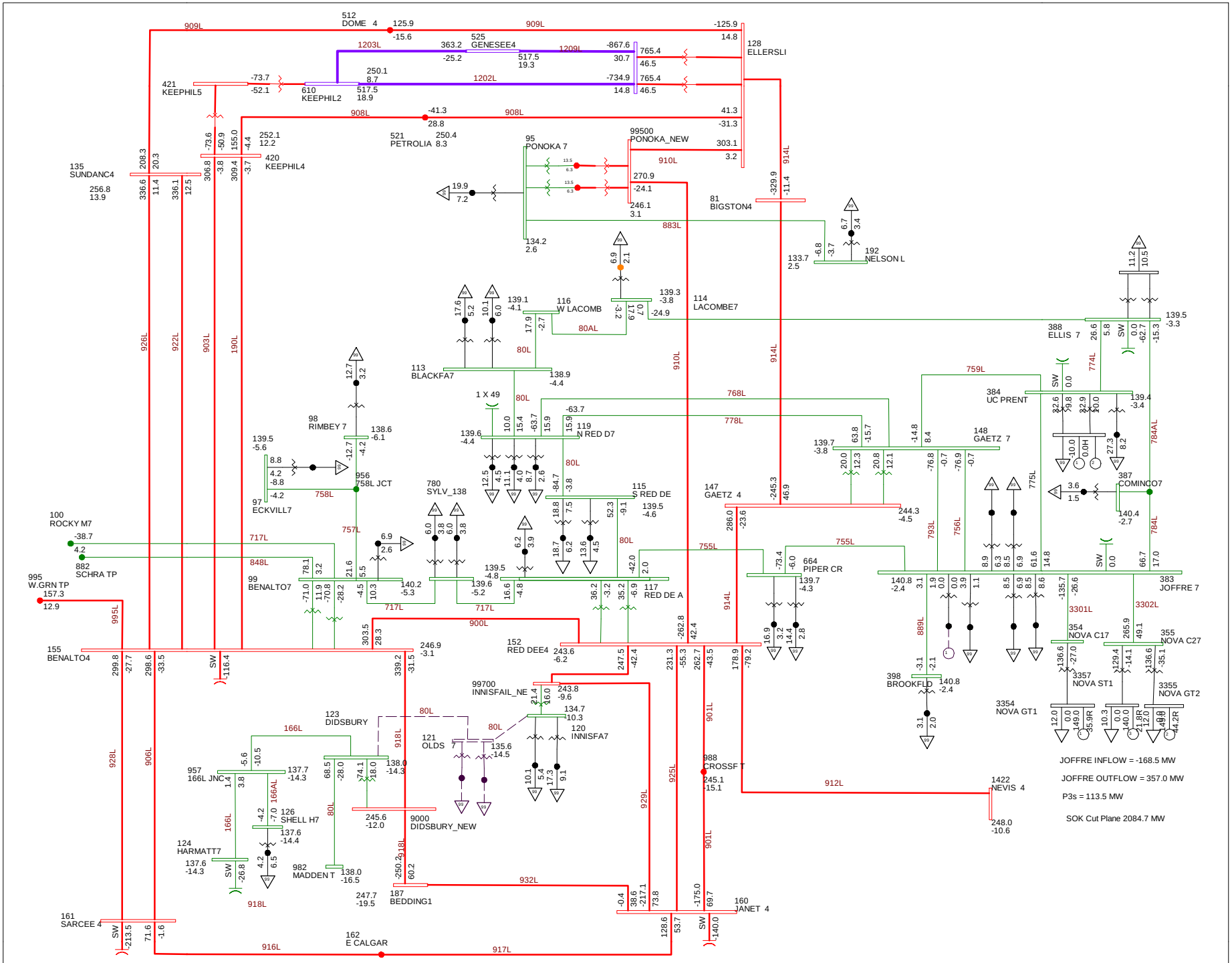


RED DEER REGION STUDY
2012 S3_SOK_PK (2012 SUMMER PEAK CASE)

FIG 2012-ALT2-LOAD-SP-D8-22(HIGH SOK):
138 KV SUBSTATION HARMATTAN 256S OUTAGE
WED, MAR 02 2011 10:18

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-756

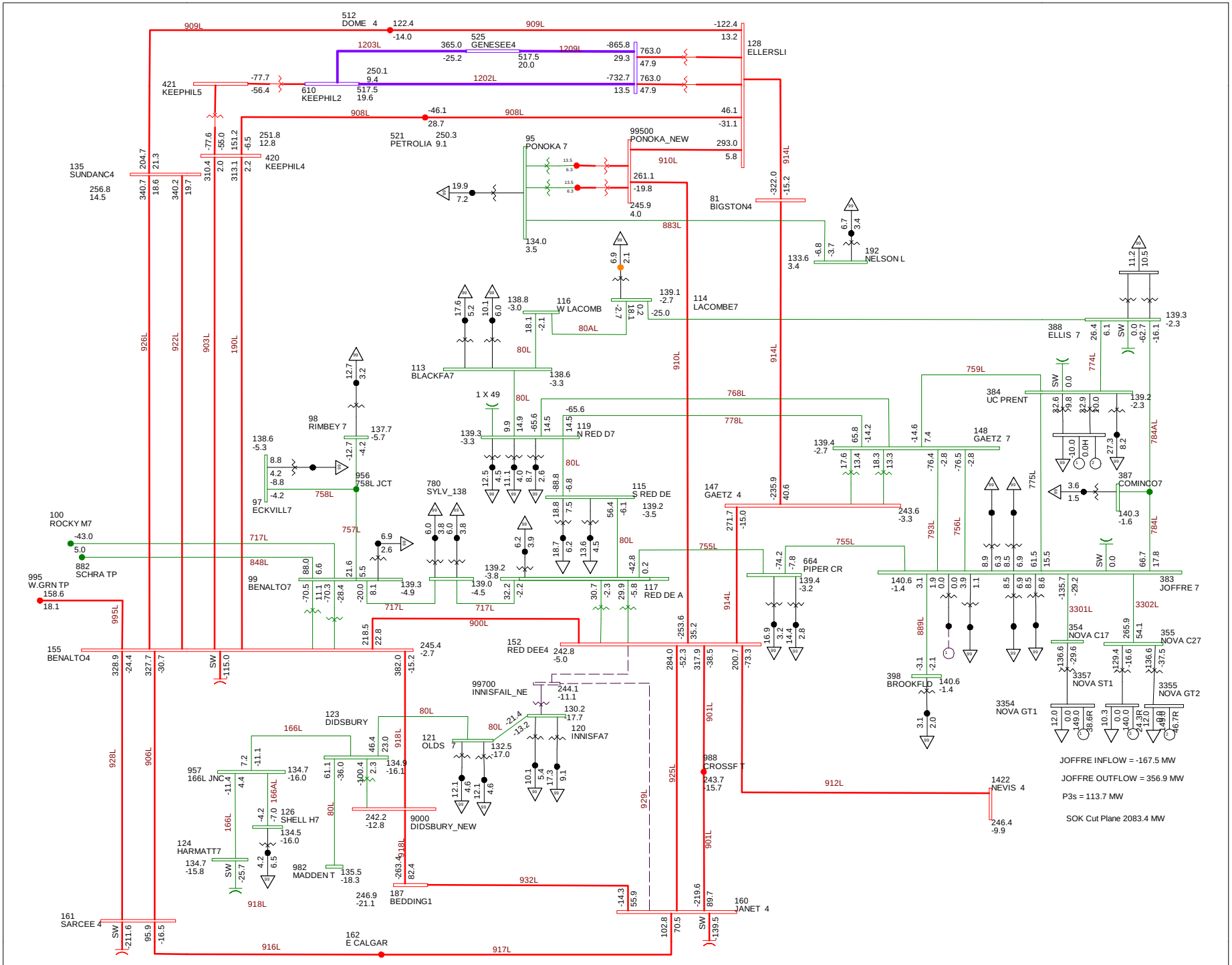


RED DEER REGION STUDY
2012 S3_SOK_PK (2012 SUMMER PEAK CASE)

FIG 2012-ALT2-LOAD-SP-D8-23(HIGH SOK):
138 KV SUBSTATION OLDS 55S OUTAGE
WED, MAR 02 2011 10:18

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-757

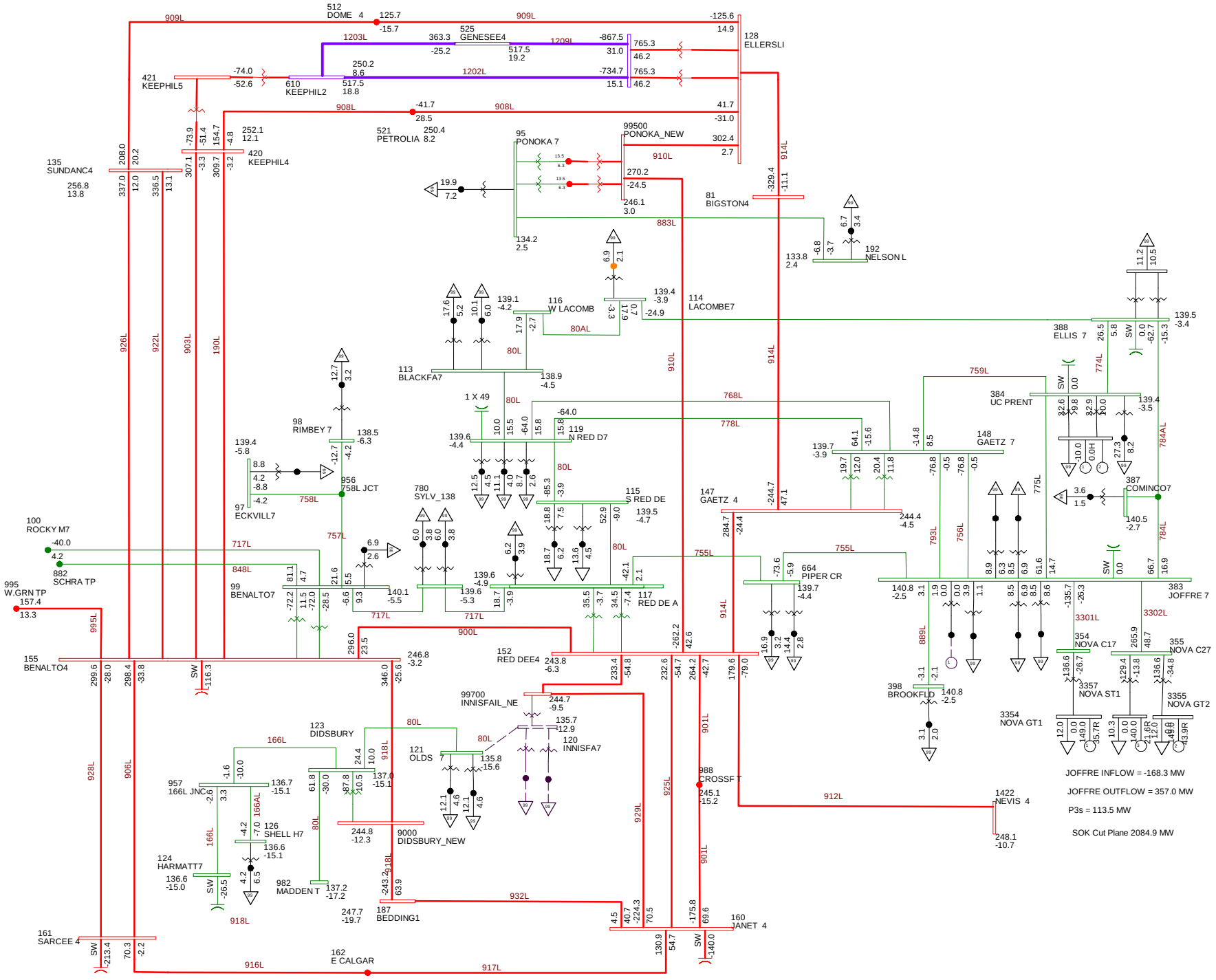


RED DEER REGION STUDY
2012 S3_SOK_PK (2012 SUMMER PEAK CASE)

FIG 2012-ALT2-LOAD-SP-D8-24(HIGH SOK): 240 KV LINES AND TRANSFORMER AT SUBSTATION INNISFAIL 214S OUTAGE
WED, MAR 02 2011 10:18

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-758

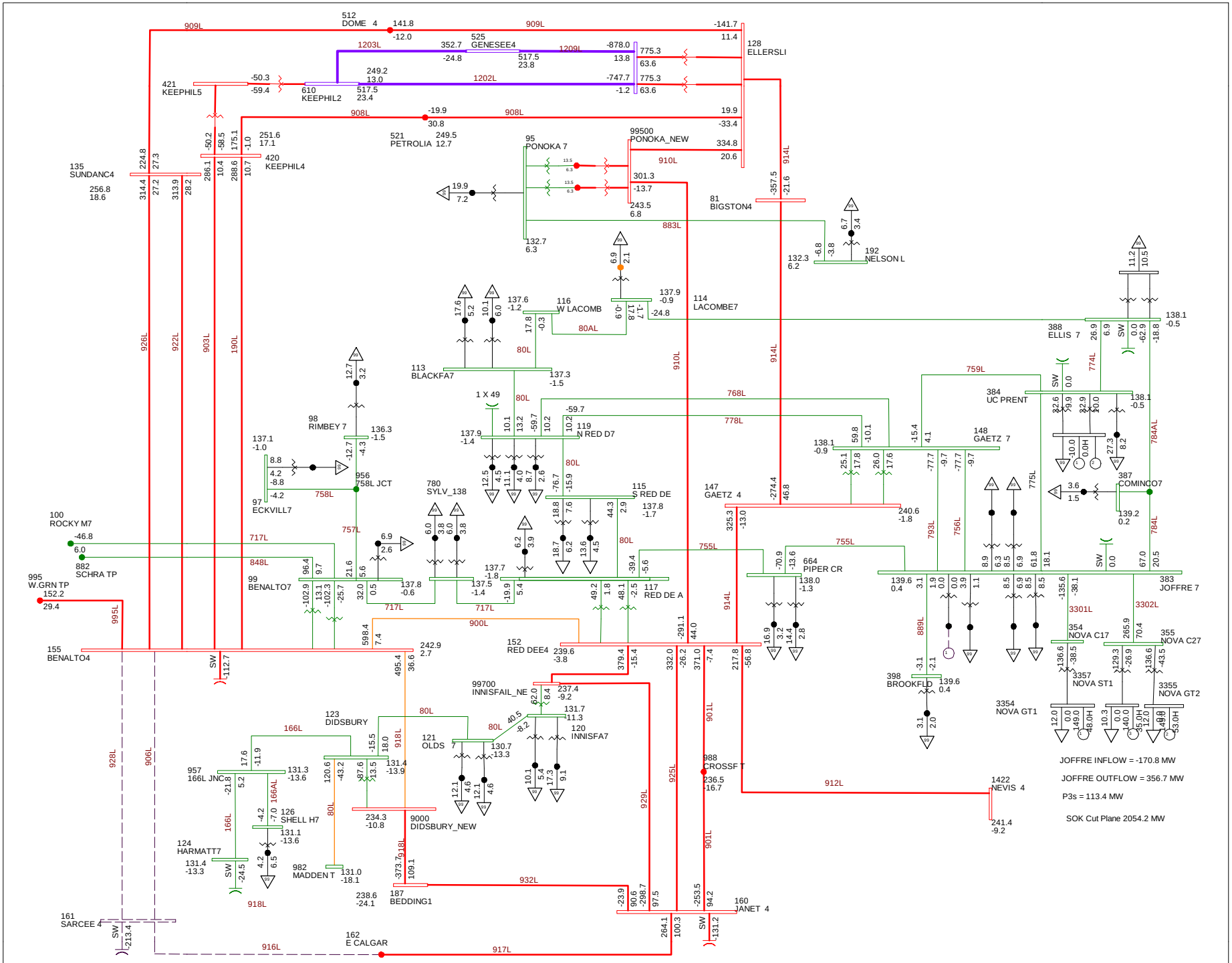


RED DEER REGION STUDY
2012 S3_SOK_PK (2012 SUMMER PEAK CASE)

FIG 2012-ALT2-LOAD-SP-D8-25: 138 KV LINES AND TRANSFORMER AT SUBSTATION INNISFAIL 214S OUTAGE
WED, MAR 02 2011 10:18

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-759



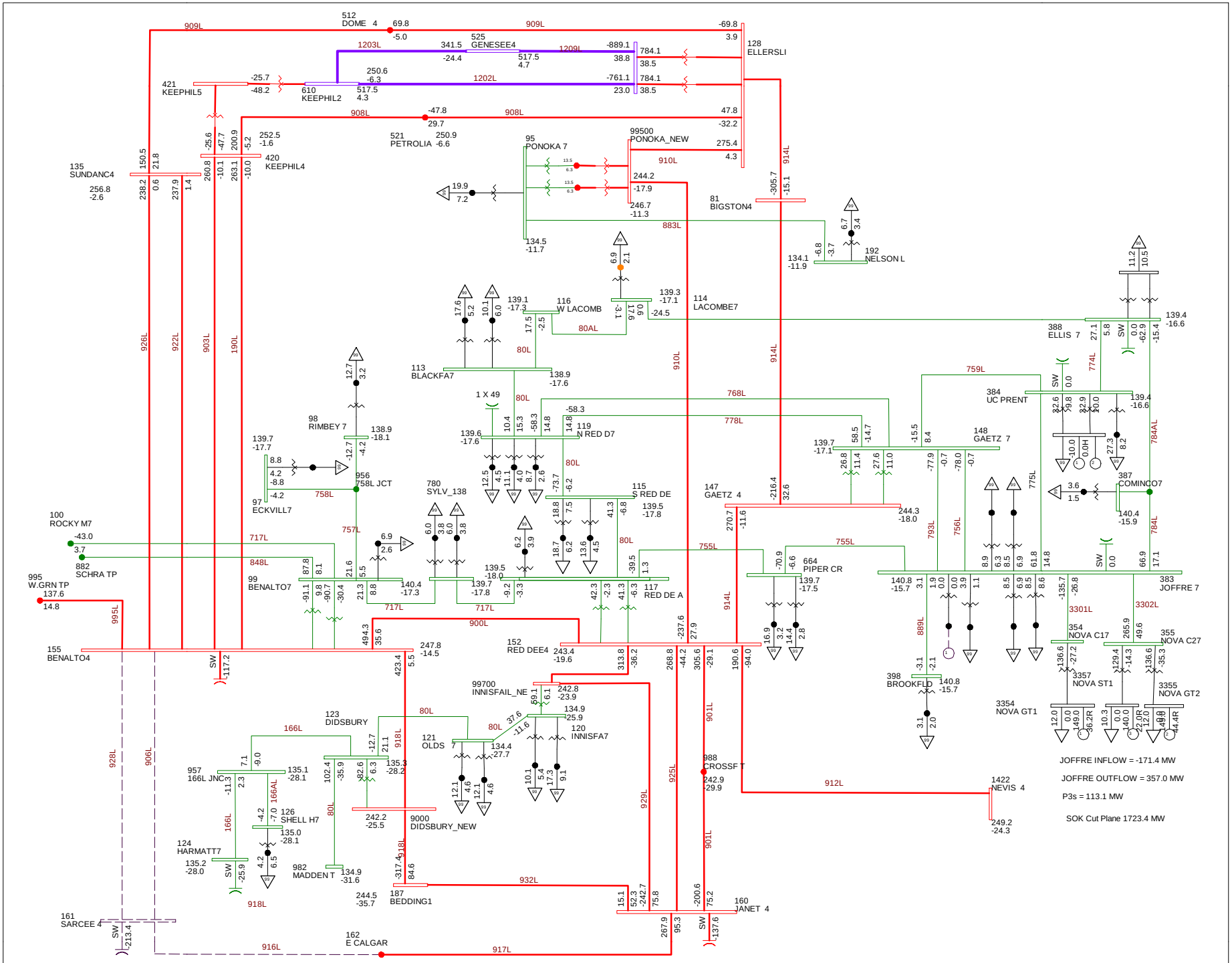
RED DEER REGION STUDY

2012 S3_SOK_PK (2012 SUMMER PEAK CASE)

FIG 2012-ALT2-LOAD-SP-D8-26(HIGH SOK): 240 KV LINES AND TRANSFORMER AT SUBSTATION SARCEE 42S OUTAGE
WED, MAR 02 2011 10:18

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-760

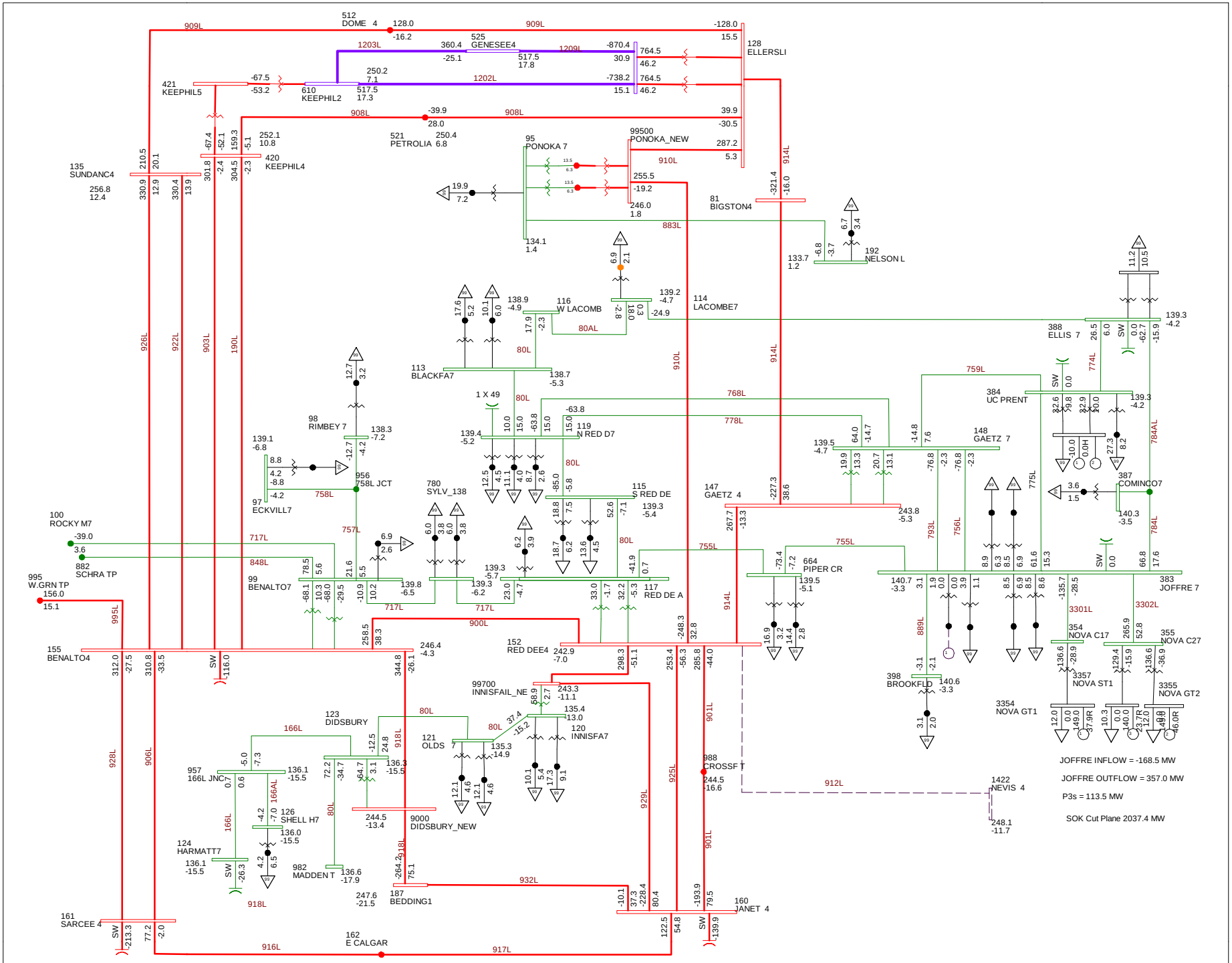


RED DEER REGION STUDY
2012 S3_SOK_PK (2012 SUMMER PEAK CASE)

FIG 2012-ALT2-LOAD-SP-D8-26-1(HIGH SOK): 240 KV LINES AND TRANSFORMER AT SUBSTATION SARCEE 42S OUTAGE WITH RAS
WED, MAR 02 2011 10:18

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-761



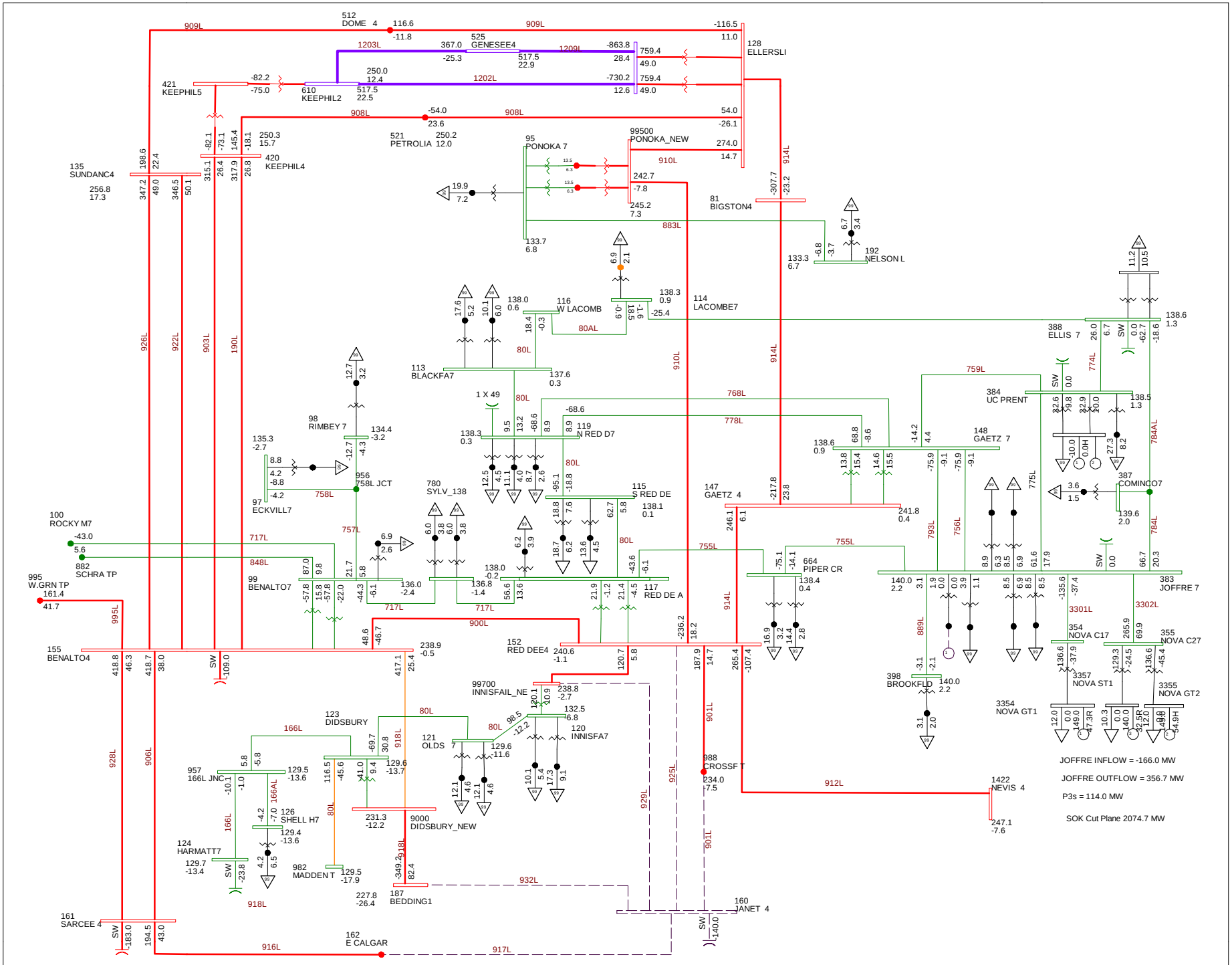
RED DEER REGION STUDY

2012 S3_SOK_PK (2012 SUMMER PEAK CASE)

FIG 2012-ALT2-LOAD-SP-D8-27(HIGH SOK): 240 KV LINES AND TRANSFORMER AT SUBSTATION NEVIS 766S OUTAGE
WED, MAR 02 2011 10:18

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-762

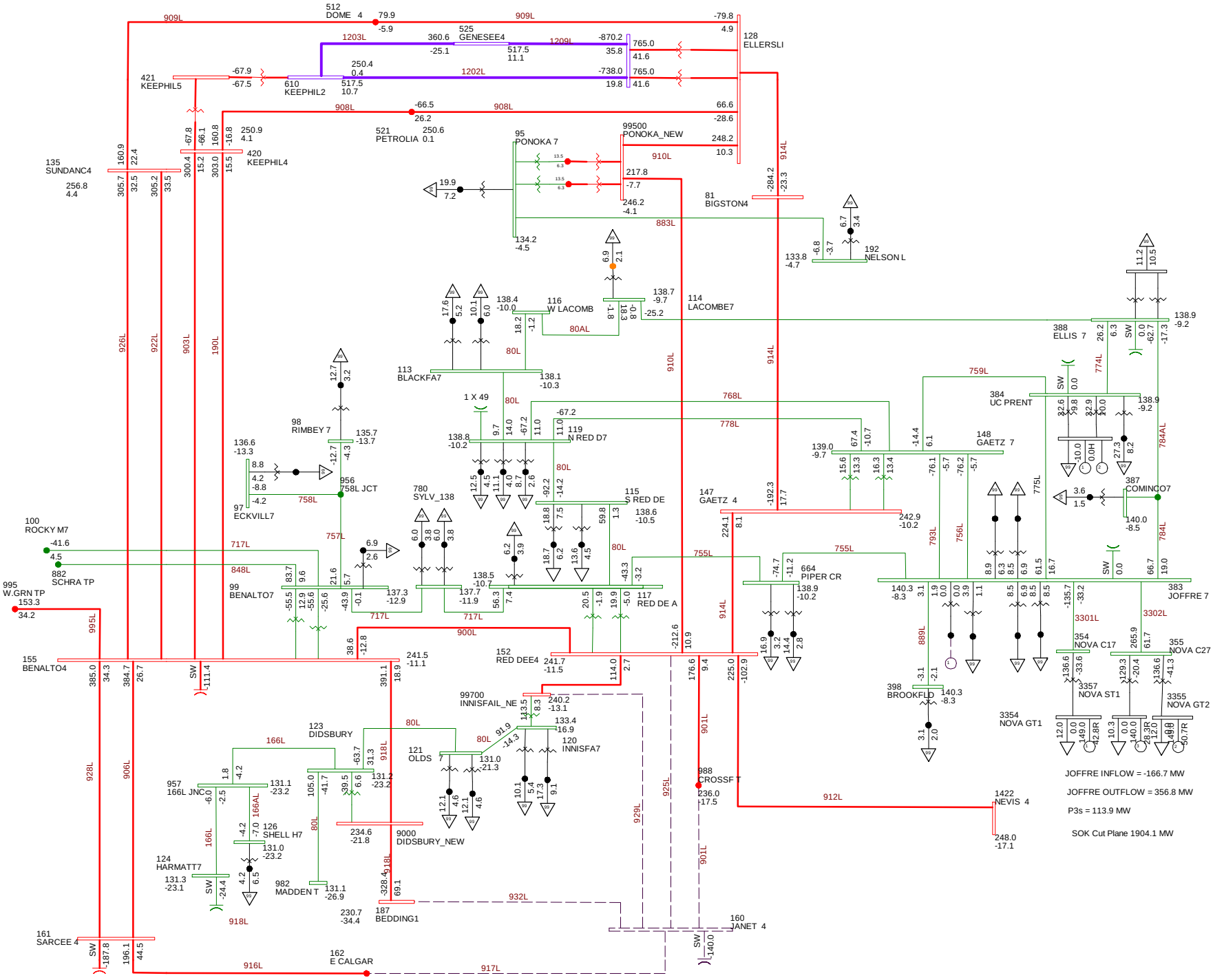


RED DEER REGION STUDY
2012 S3_SOK_PK (2012 SUMMER PEAK CASE)

FIG 2012-ALT2-LOAD-SP-D8-28(HIGH SOK): 240 KV LINES AND TRANSFORMER AT SUBSTATION JANET 74S OUTAGE
WED, MAR 02 2011 10:18

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-763

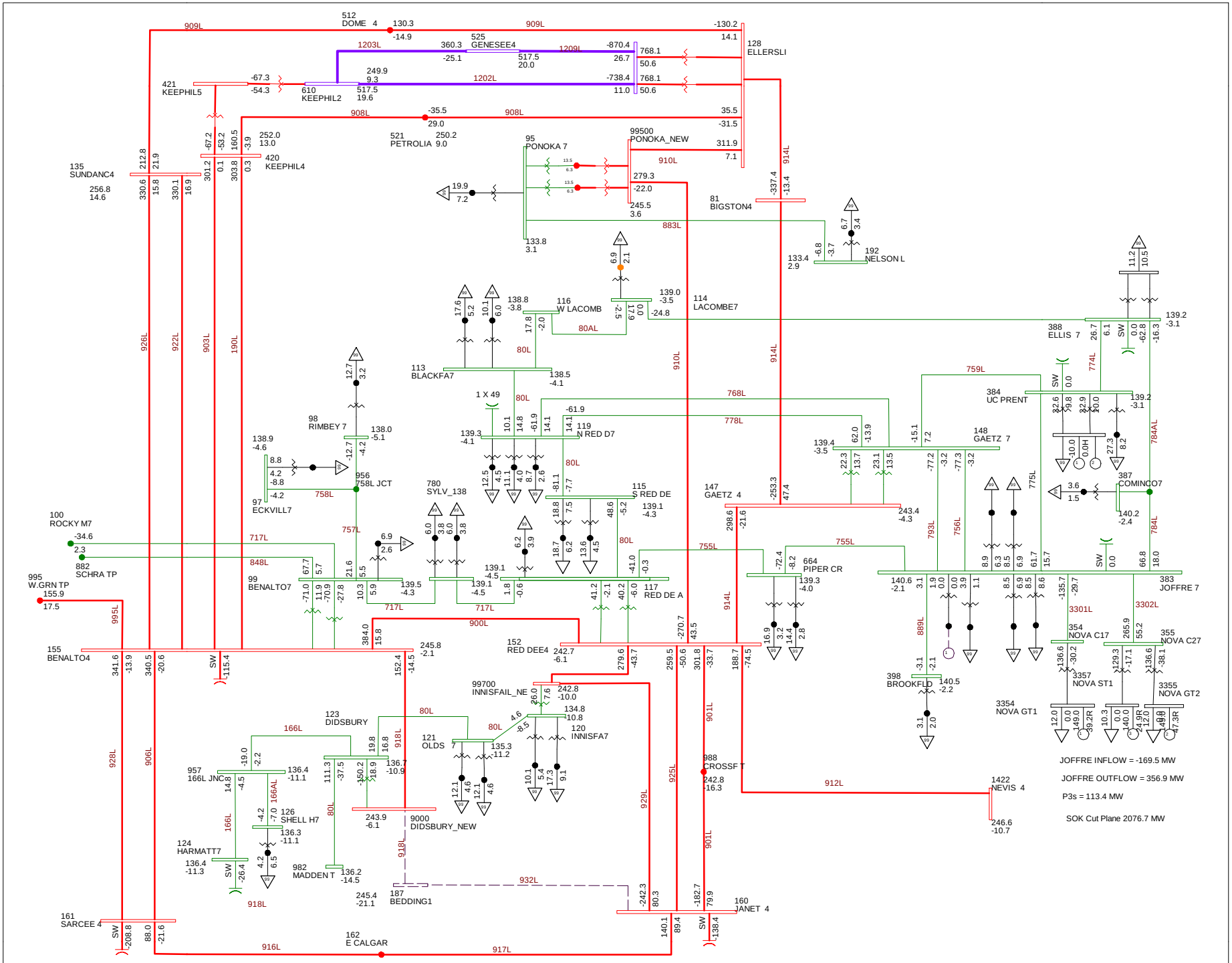


RED DEER REGION STUDY
2012 S3_SOK_PK (2012 SUMMER PEAK CASE)

FIG 2012-ALT2-LOAD-SP-D8-28-1(HIGH SOK): 240 KV LINES AND TRANSFORMER AT SUBSTATION JANET 74S OUTAGE WITH RAS
WED, MAR 02 2011 10:18

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-764

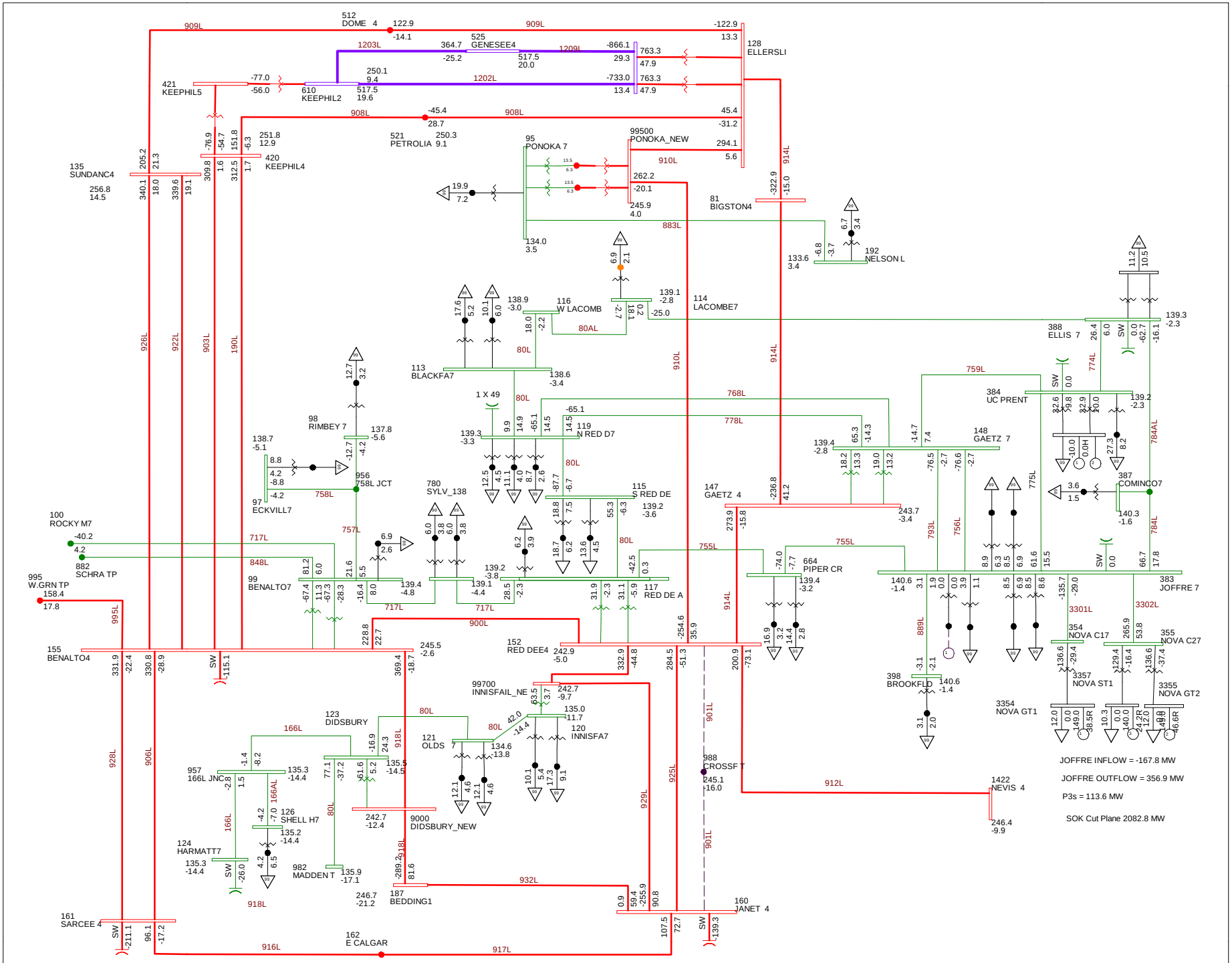


RED DEER REGION STUDY
2012 S3_SOK_PK (2012 SUMMER PEAK CASE)

FIG 2012-ALT2-LOAD-SP-D8-29(HIGH SOK): 240 KV LINES AND TRANSFORMER AT SUBSTATION BEDDINGTON 162S OUTAGE
WED, MAR 02 2011 10:19

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-765

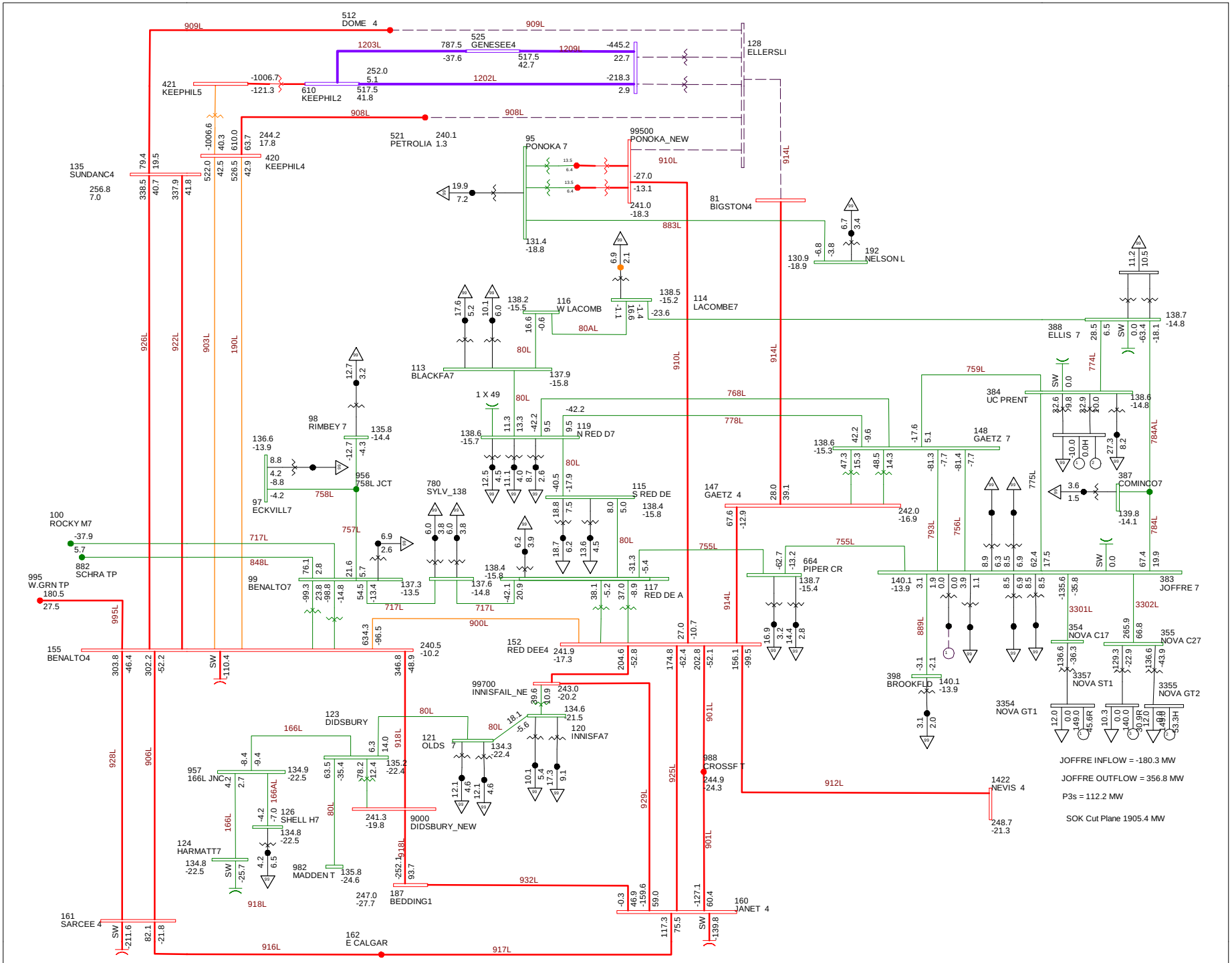


RED DEER REGION STUDY
2012 S3_SOK_PK (2012 SUMMER PEAK CASE)

FIG 2012-ALT2-LOAD-SP-D8-30(HIGH SOK): 240 KV LINES AND TRAN
SUBSTATION CROSSFIELD 64S OUTAGE
WED, MAR 02 2011 10:19

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-766

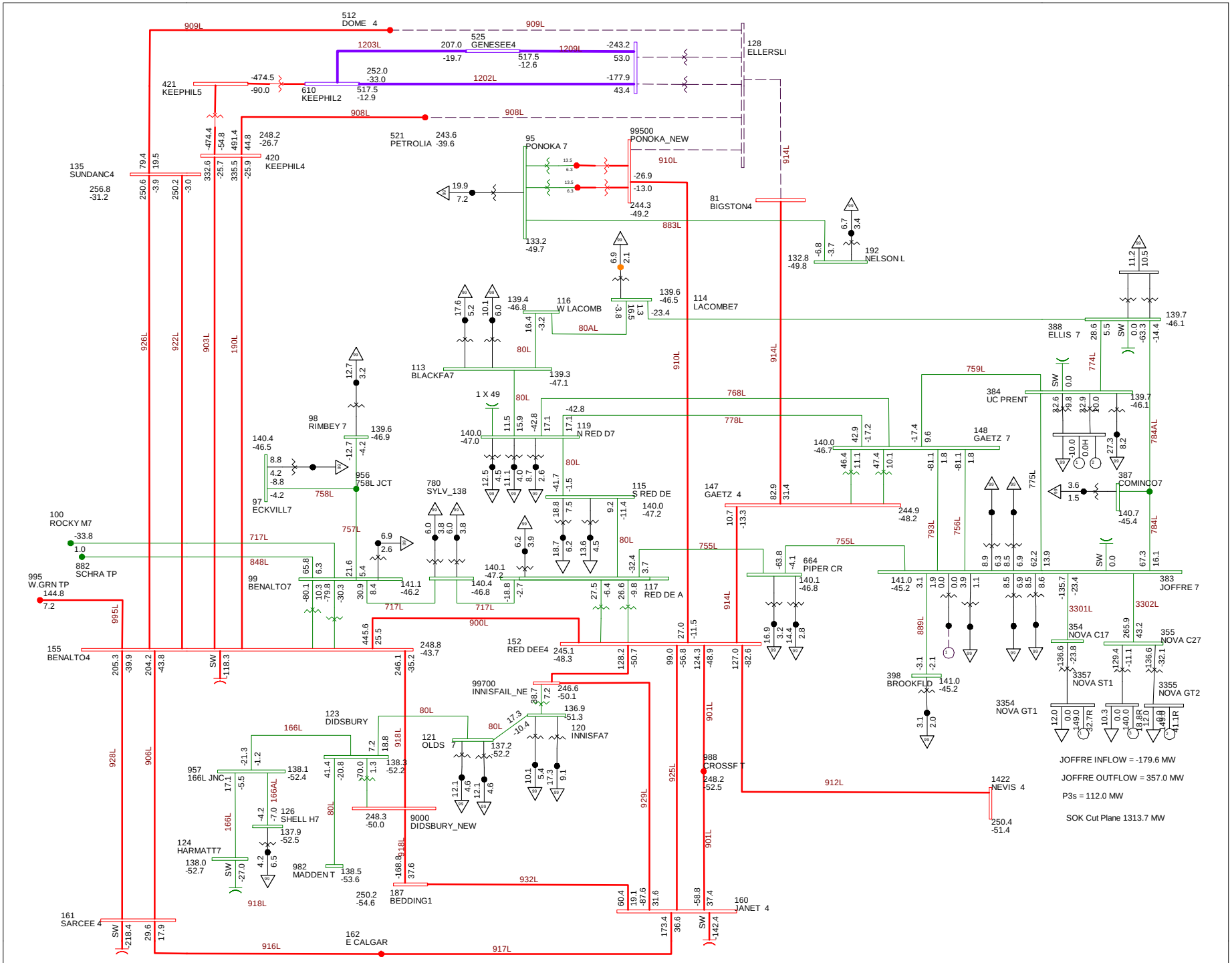


RED DEER REGION STUDY
2012 S3_SOK_PK (2012 SUMMER PEAK CASE)

FIG 2012-ALT2-LOAD-SP-D8-31(HIGH SOK): 240 KV LINES AND TRAN
SUBSTATION ELLERSLIE 89S OUTAGE WITH RAS
WED, MAR 02 2011 10:19

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-767

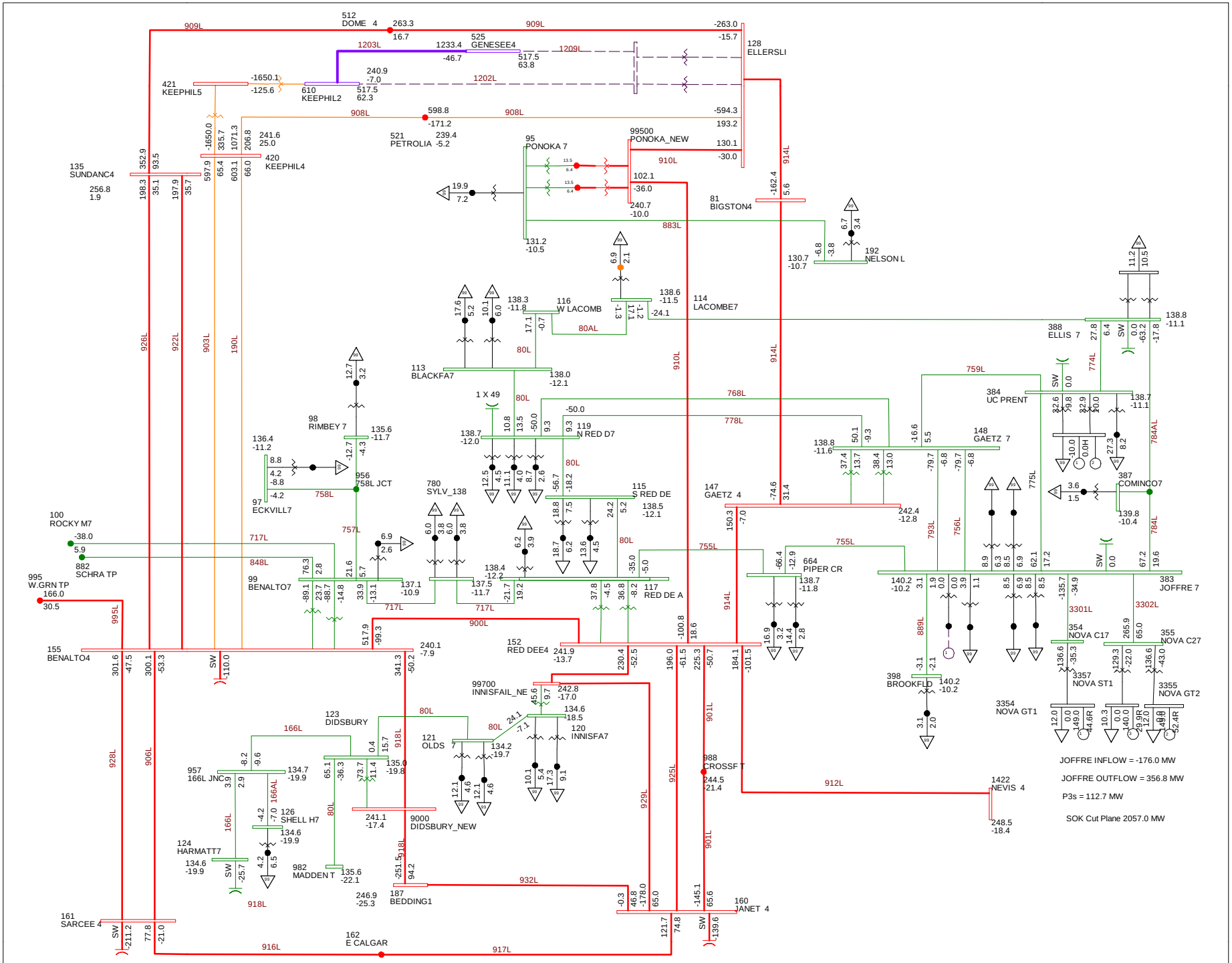


RED DEER REGION STUDY
2012 S3_SOK_PK (2012 SUMMER PEAK CASE)

FIG 2012-ALT2-LOAD-SP-D8-31-1(HIGH SOK): 240 KV LINES AND TR
SUBSTATION ELLERSLIE 89S OUTAGE WITH RAS
WED, MAR 02 2011 10:19

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-768

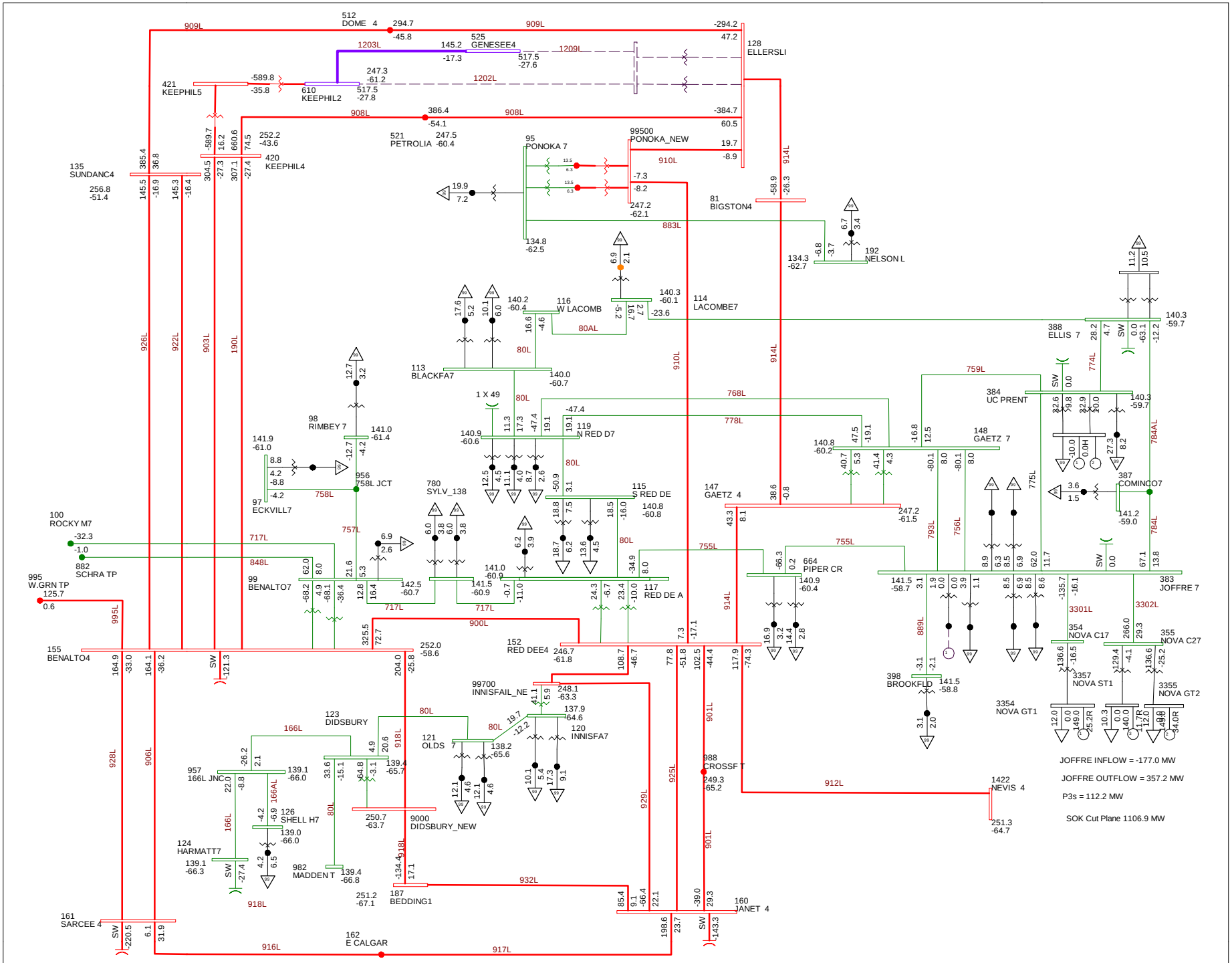


RED DEER REGION STUDY
2012 S3_SOK_PK (2012 SUMMER PEAK CASE)

FIG 2012-ALT2-LOAD-SP-D8-32(HIGH SOK): 500 KV LINES AND TRAN
SUBSTATION ELLERSLIE 89S OUTAGE
WED, MAR 02 2011 10:19

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-769

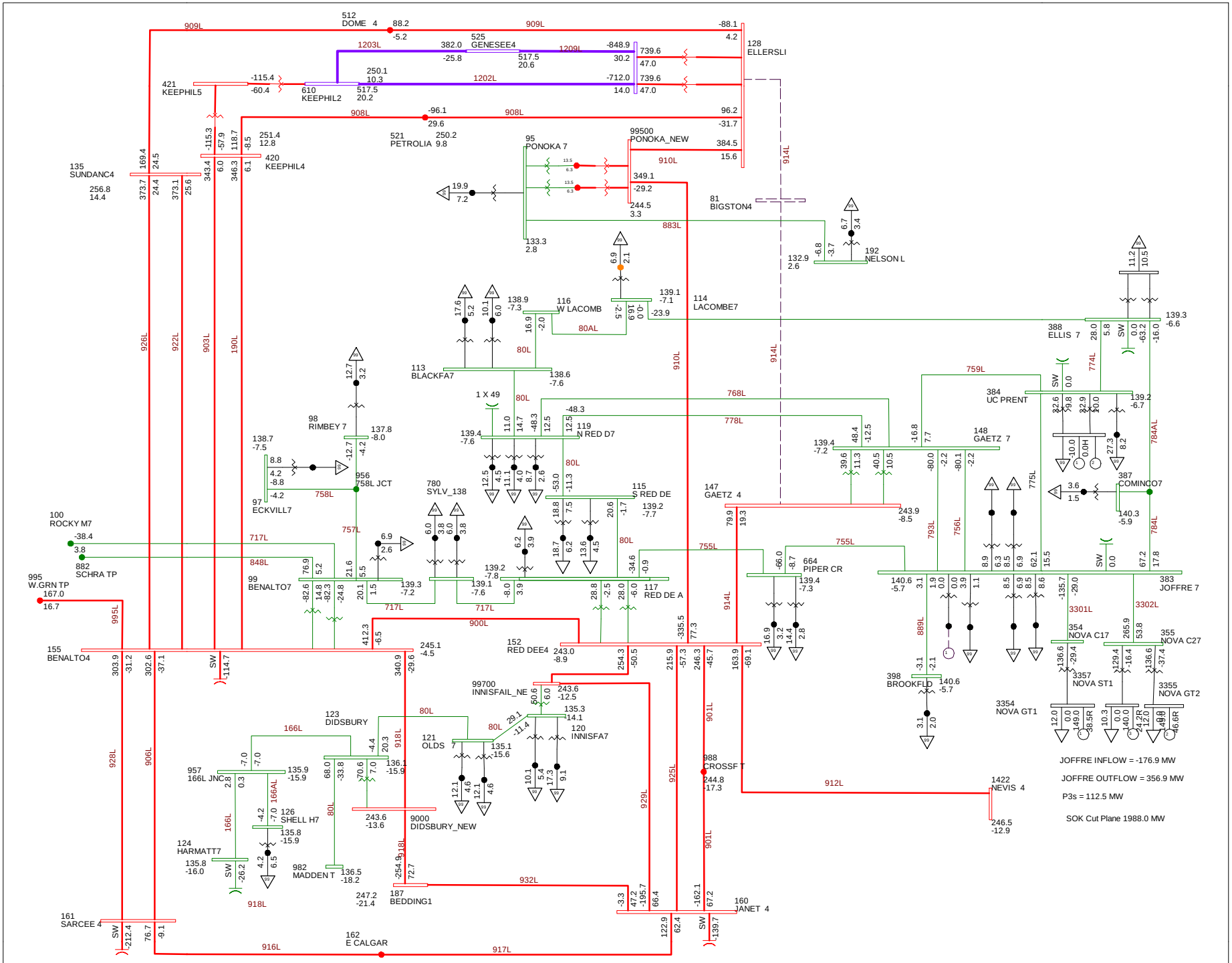


RED DEER REGION STUDY
2012 S3_SOK_PK (2012 SUMMER PEAK CASE)

FIG 2012-ALT2-LOAD-SP-D8-32-1(HIGH SOK): 500 KV LINES AND TR
SUBSTATION ELLERSLIE 89S OUTAGE
WED, MAR 02 2011 10:19

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-770

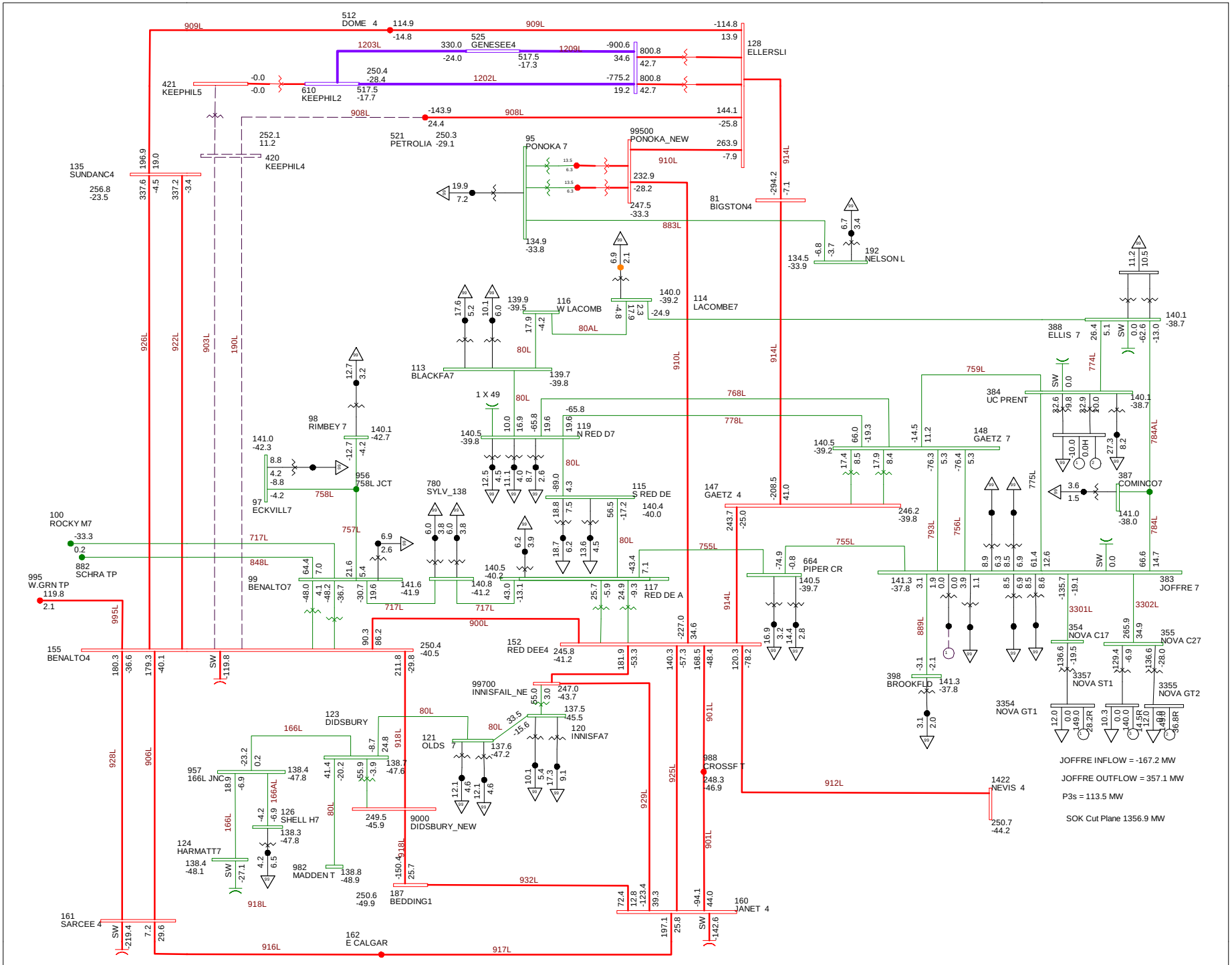


RED DEER REGION STUDY
2012 S3_SOK_PK (2012 SUMMER PEAK CASE)

FIG 2012-ALT2-LOAD-SP-D8-33(HIGH SOK): 240 KV LINES AND TRAN
SUBSTATION BIGSTONE 86S OUTAGE
WED, MAR 02 2011 10:19

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-771

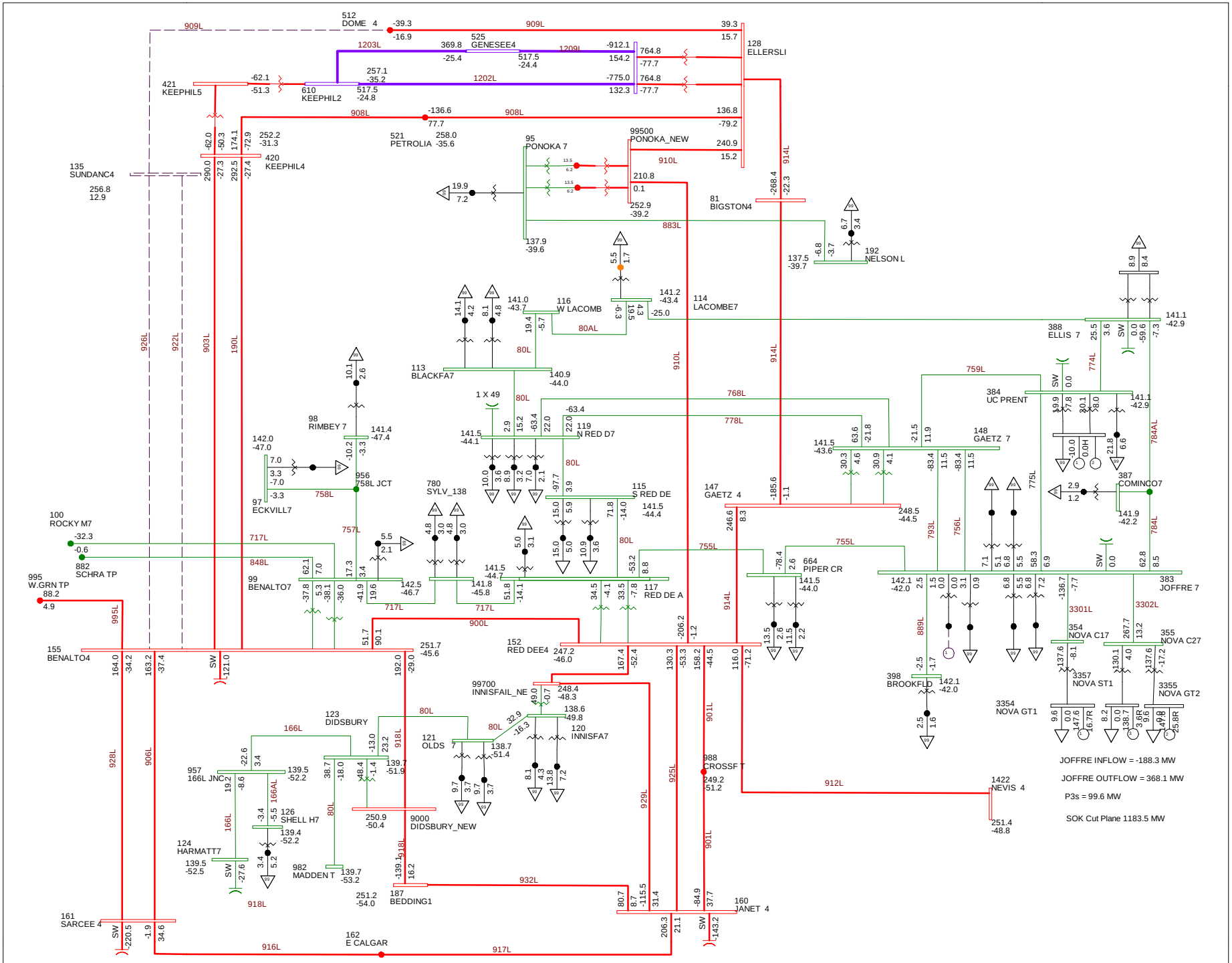


RED DEER REGION STUDY
2012 S3_SOK_PK (2012 SUMMER PEAK CASE)

FIG 2012-ALT2-LOAD-SP-D8-34(HIGH SOK): 240 KV LINES AND TRAN
SUBSTATION KEEPHILLS 568S OUTAGE
WED, MAR 02 2011 10:19

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-772



RED DEER REGION STUDY
2012 S3_SOK_PK (2012 SUMMER PEAK CASE)

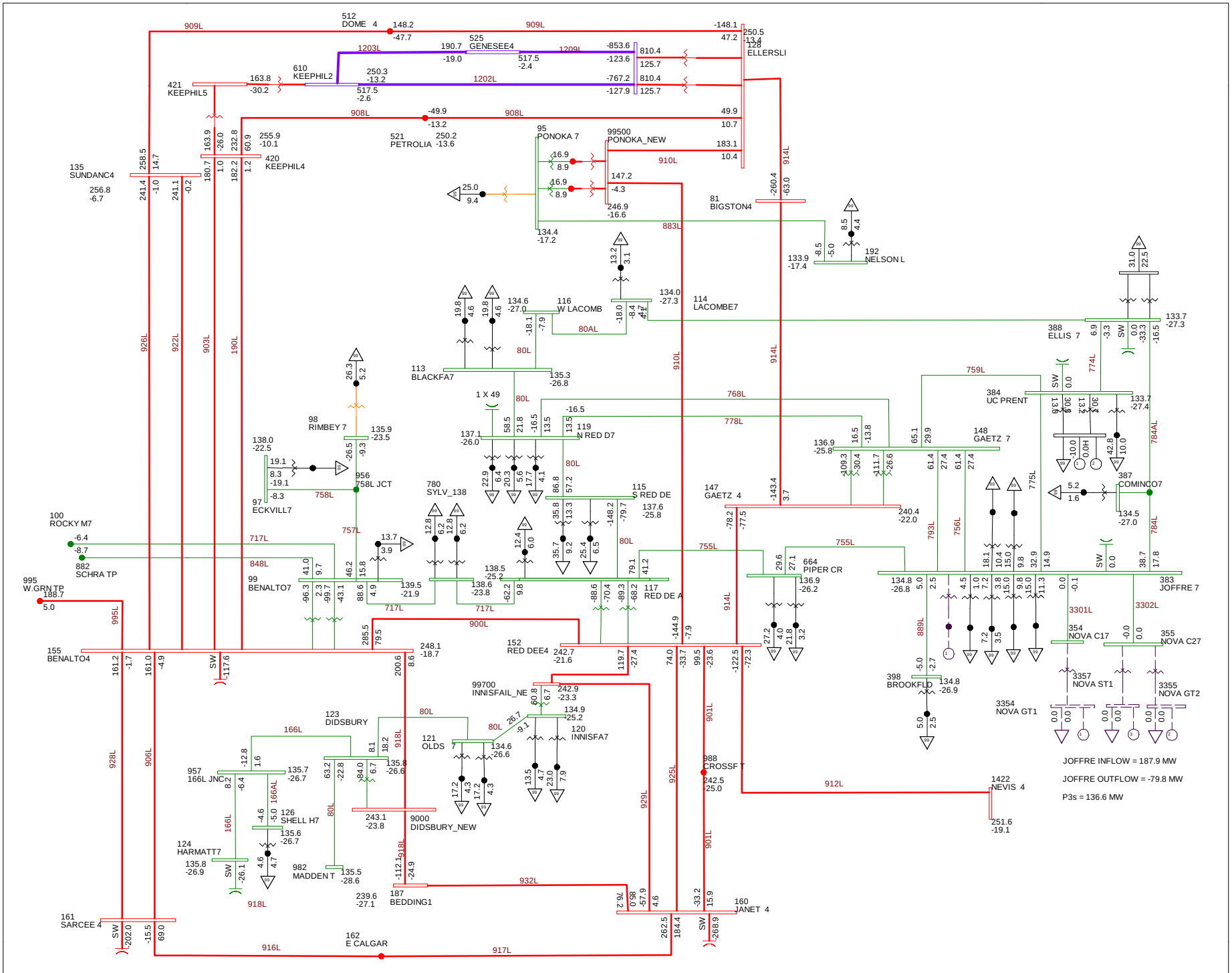
FIG 2012-ALT2-LOAD-SP-D8-35(HIGH SOK): 240 KV LINES AND TRAN
SUBSTATION SUNDANCE 821S OUTAGE WITH RAS
WED, MAR 02 2011 10:19

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-773

Table D-2012-19: Summary of 2012 Load Adequacy Power Flow Analysis - Alternative 2 Category D10

Figure No.	Contingency	Overloaded Element	Percent Overload	Other System Performance Concerns	SPS
Winter Peak					
Fig 2012-Alt2-Load-WP-D10-1	Trip Generator GT1, GT2 and ST1 at Nova complex	None	N/A	None	None
Summer Light					
Fig 2012-Alt2-Load-SL-D10-1	Trip Generator GT1, GT2 and ST1 at Nova complex	None	N/A	None	None



RED DEER REGION STUDY

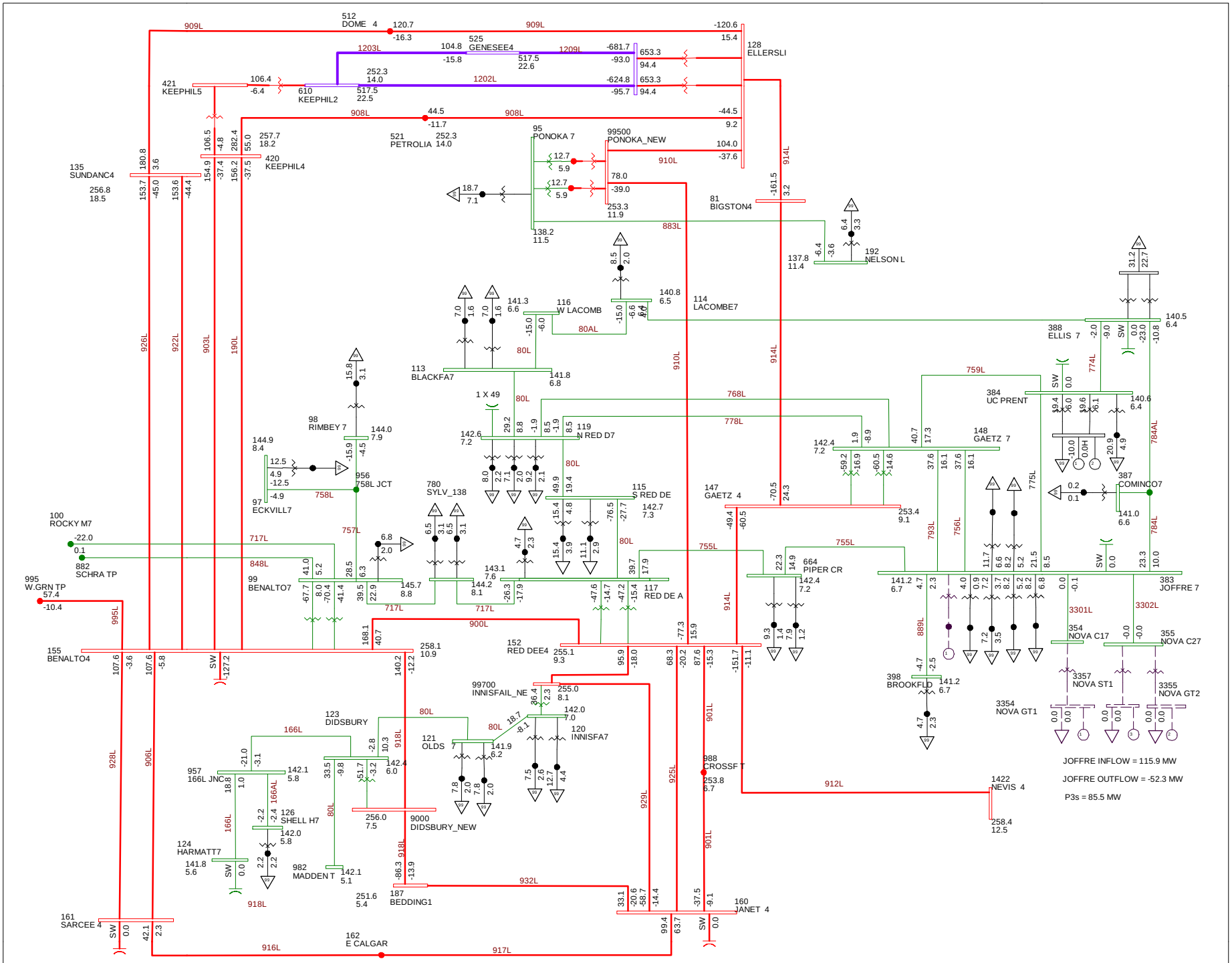
2012 WINTER PEAK BASE CASE REVISION 6.5

FIG 2012-ALT2-LOAD-WP-D10-1:
TRIP GENERATOR GT1, GT2 AND ST1 AT NOVA COMPLEX
WED, MAR 02 2011 11:01

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR

<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-775



RED DEER REGION STUDY

2012 SUMMER LIGHT BASE CASE REVISION 6.5

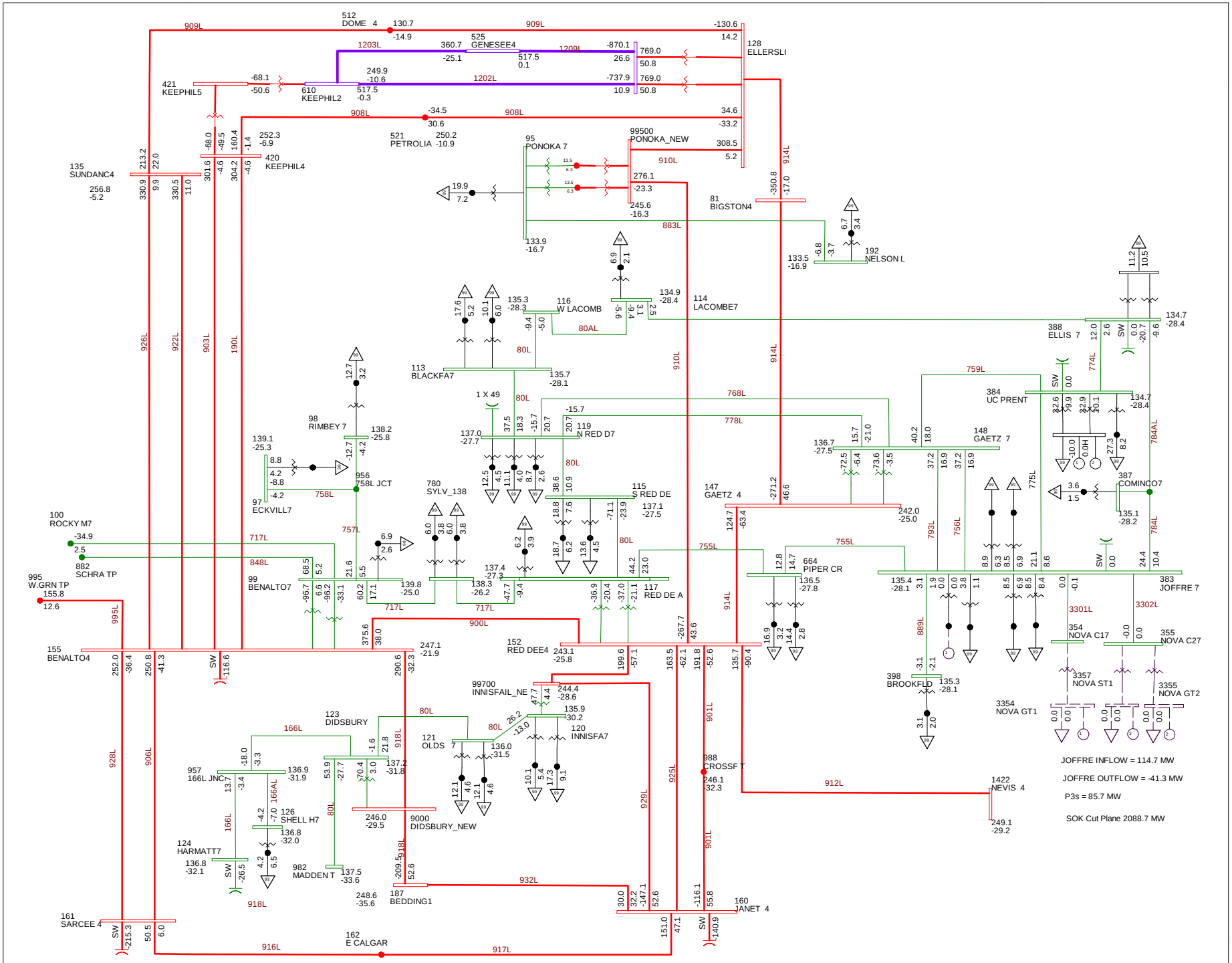
FIG 2012-ALT2-LOAD-SL-D10-1:
TRIP GENERATOR GT1, GT2 AND ST1 AT NOVA COMPLEX
WED, MAR 02 2011 10:59

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR

D-2012-776

Table D-2012-20: Summary of 2012 Load Adequacy Power Flow Analysis - Alternative 2 Category D10 (SP with High SOK Plane)

Figure No.	Contingency	Overloaded Element	Percent Overload	Other System Performance Concerns	SPS
Summer Peak					
Fig 2012-Alt2-Load-SP-D10-1 (High SOK)	Trip Generator GT1, GT2 and ST1 at Nova complex	None	N/A	None	None



RED DEER REGION STUDY

2012 S3_SOK_PK (2012 SUMMER PEAK CASE)

FIG 2012-ALT2-LOAD-SP-D10-1(HIGH SOK):
TRIP GENERATOR GT1, GT2 AND ST1 AT NOVA COMPLEX
WED, MAR 02 2011 10:56

Bus - VOLTAGE (KV)/ANGLE
Branch - MW/MVAR
Equipment - MW/MVAR
<=72.000 <=138.000 >500.000
<=34.500 <=240.000 <=500.000

D-2012-778

D3 P-V & V-Q Analysis

According to Table 2-4 in main report, the system performance should be compliant with Performance Level A, which is 5% and 35 and 39 MW in 2012 and 2017 respectively. The forecast 2012 and 2017 winter peak load for the Red Deer region is 690 and 767 MW respectively based on the 2012 and 2017 AESO forecast respectively. The following tables provide the PV study results which giving maximum reserved real power margin at voltage collapse (knee) points under various contingencies for 2012 and 2017 load adequacy and with wind generation as well.

Summary of 2012 P-V Analysis Results

Alternative 1

2012 Winter Peak-Alternative 1 (138 kV Bus at Joffre 535S) (Bus No. 383)

Figure No.	Scenario 1 (Nova On)			Scenario 2 (Nova Off)			Compliance with WECC voltage stability criteria
	Most Critical Contingency	Maximum real power margin at voltage collapse (knee) point		Most Critical Contingency	Maximum real power margin at voltage collapse (knee) point		
		(MW)	(%)		(MW)	(%)	
Load Adequacy							
Fig 2012-PV-1/ Fig 2012-PV-2	Base Case	380	55	Base Case	180	26	Yes
	Nova 3301S to Joffre 535S	200	29	918L Benalto 17S to Didsbury 152S	140	20	Yes
	Transformer 240/138 kV at Benalto 17S	360	52	Transformer 240/138 kV at Gaetz 87S	140	20	Yes
	Benalto 17S to Sylvan Lake 580S	360	52	900L Benalto 17S to Red Deer 63S	130	19	Yes

Fig 2012 –PV-1: Load Adequacy with Nova ON

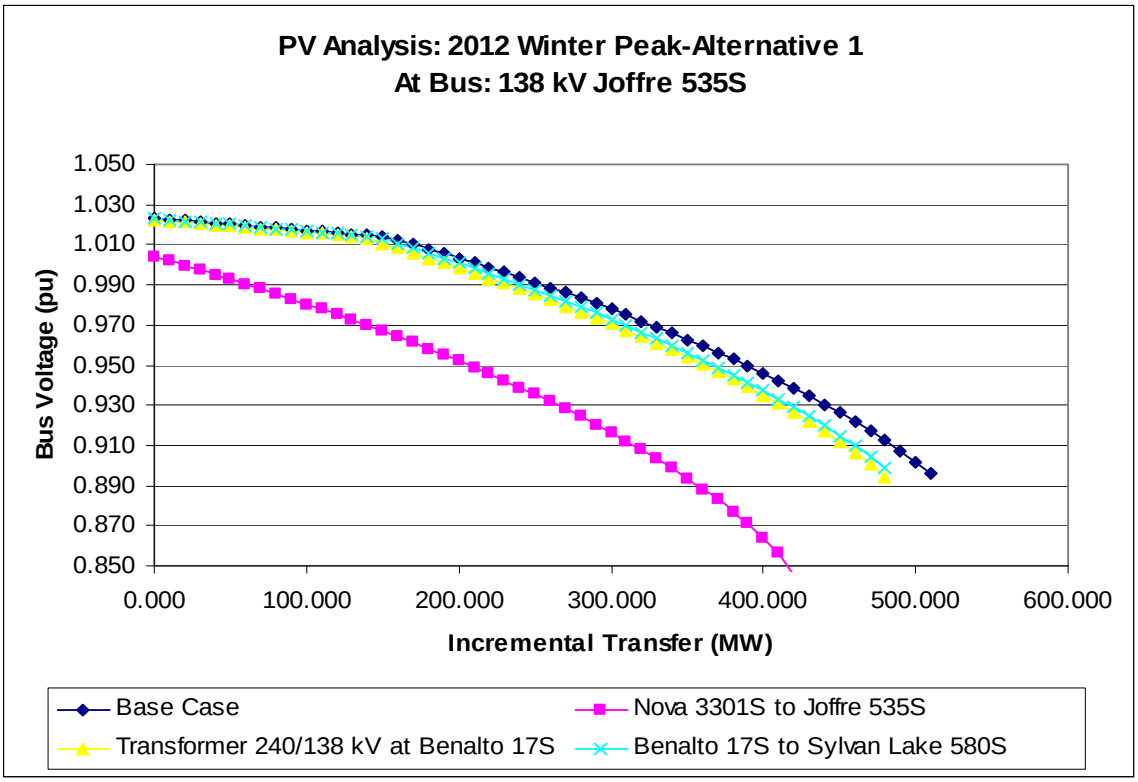
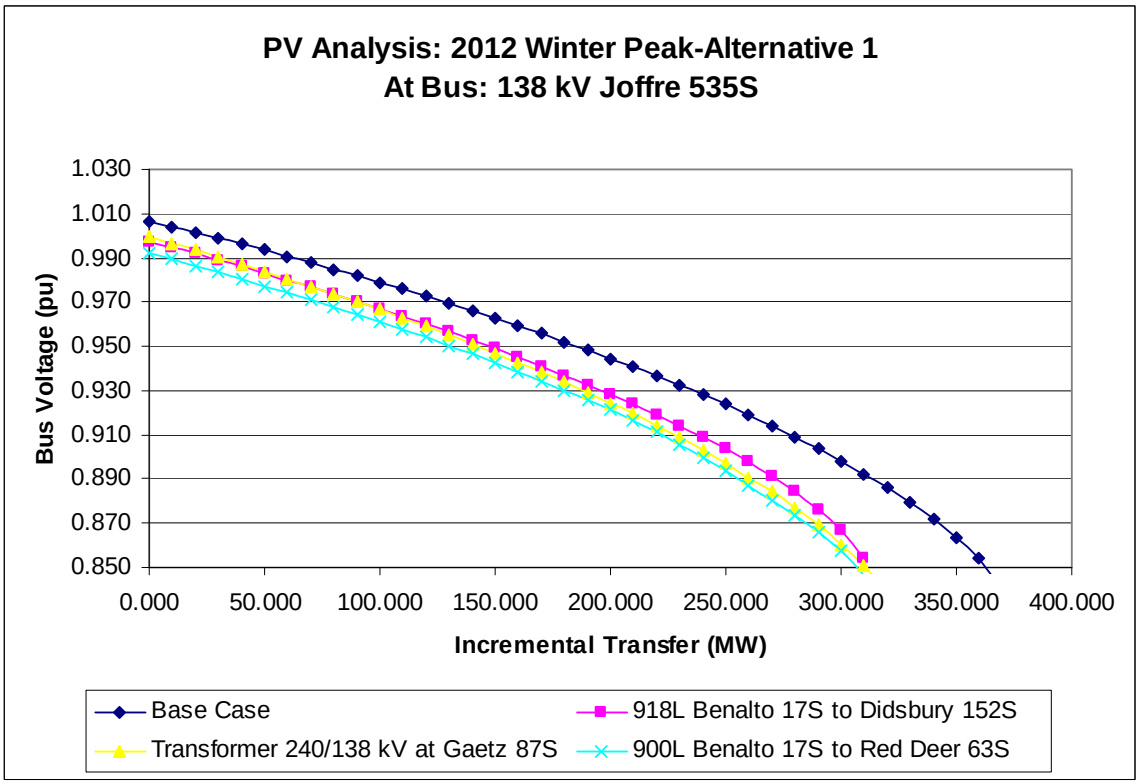


Fig 2012 –PV-2: Load Adequacy with Nova OFF



2012 Winter Peak-Alternative 1(138 kV Bus at Ellis 332S)
(Bus No. 388)

Figure No.	Scenario 1 (Nova On)			Scenario 2 (Nova Off)			Compliance with WECC voltage stability criteria
	Most Critical Contingency	Maximum real power margin at voltage collapse (knee) point		Most Critical Contingency	Maximum real power margin at voltage collapse (knee) point		
		(MW)	(%)		(MW)	(%)	
Load Adequacy							
Fig 2012-PV-3/ Fig 2012-PV-4	Base Case	330	48	Base Case	170	25	Yes
	Nova 3301S to Joffre 535S	160	23	918L Benalto 17S to Didsbury 152S	130	19	Yes
	Transformer 240/138 kV at Benalto 17S	310	45	Transformer 240/138 kV at Gaetz 87S	130	19	Yes
	Benalto 17S to Sylvan Lake 580S	310	45	900L Benalto 17S to Red Deer 63S	120	17	Yes

Fig 2012 –PV-3: Load Adequacy with Nova On

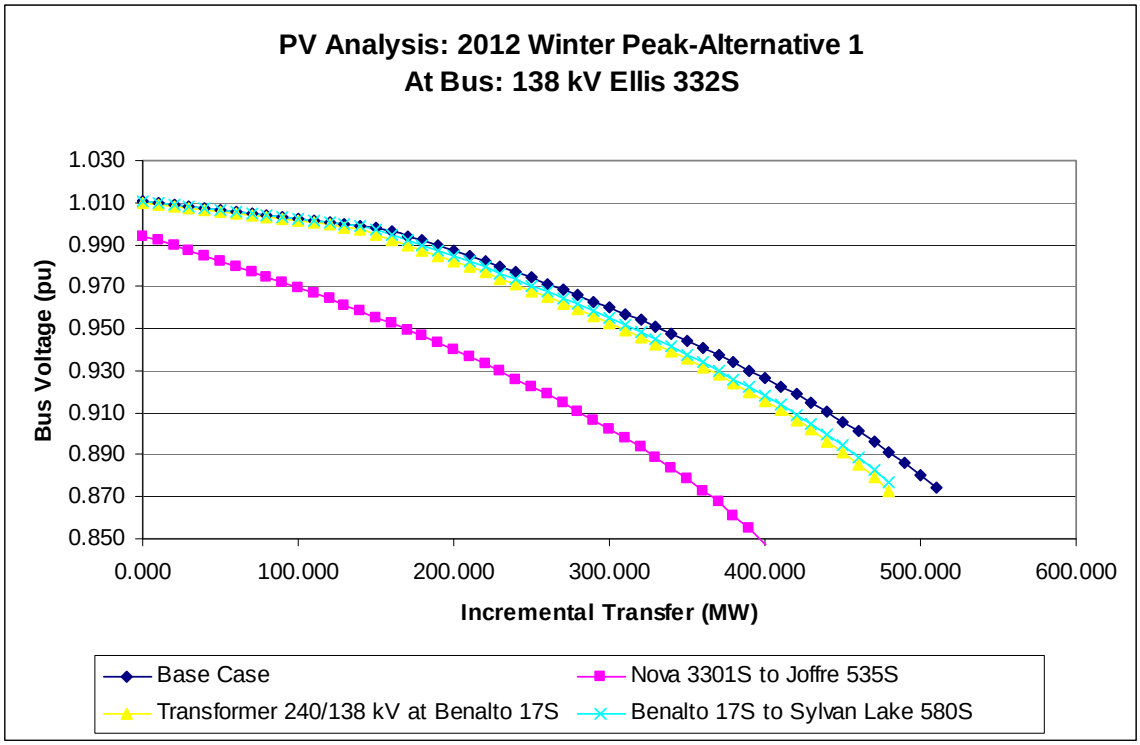
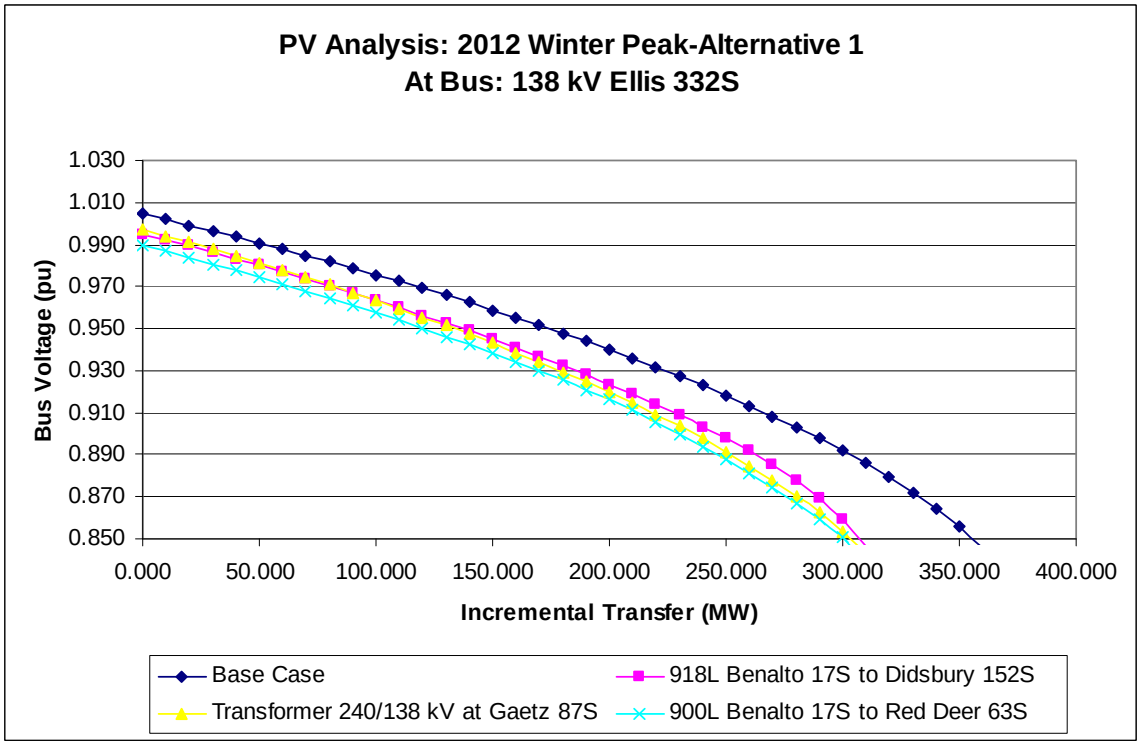


Fig 2012 –PV-4: Load Adequacy with Nova Off



2012 Winter Peak-Alternative 1(138 kV Bus at Blackfalds 198S)
(Bus No. 113)

Figure No.	Scenario 1 (Nova On)			Scenario 2 (Nova Off)			Compliance with WECC voltage stability criteria
	Most Critical Contingency	Maximum real power margin at voltage collapse (knee) point		Most Critical Contingency	Maximum real power margin at voltage collapse (knee) point		
		(MW)	(%)		(MW)	(%)	
Load Adequacy							
Fig 2012-PV-5/ Fig 2012-PV-6	Base Case	340	49	Base Case	180	26	Yes
	Nova 3301S to Joffre 535S	200	29	918L Benalto 17S to Didsbury 152S	140	20	Yes
	Transformer 240/138 kV at Benalto 17S	310	45	Transformer 240/138 kV at Gaetz 87S	140	20	Yes
	Benalto 17S to Sylvan Lake 580S	320	46	900L Benalto 17S to Red Deer 63S	120	17	Yes

Fig 2012 –PV-5: Load Adequacy with Nova On

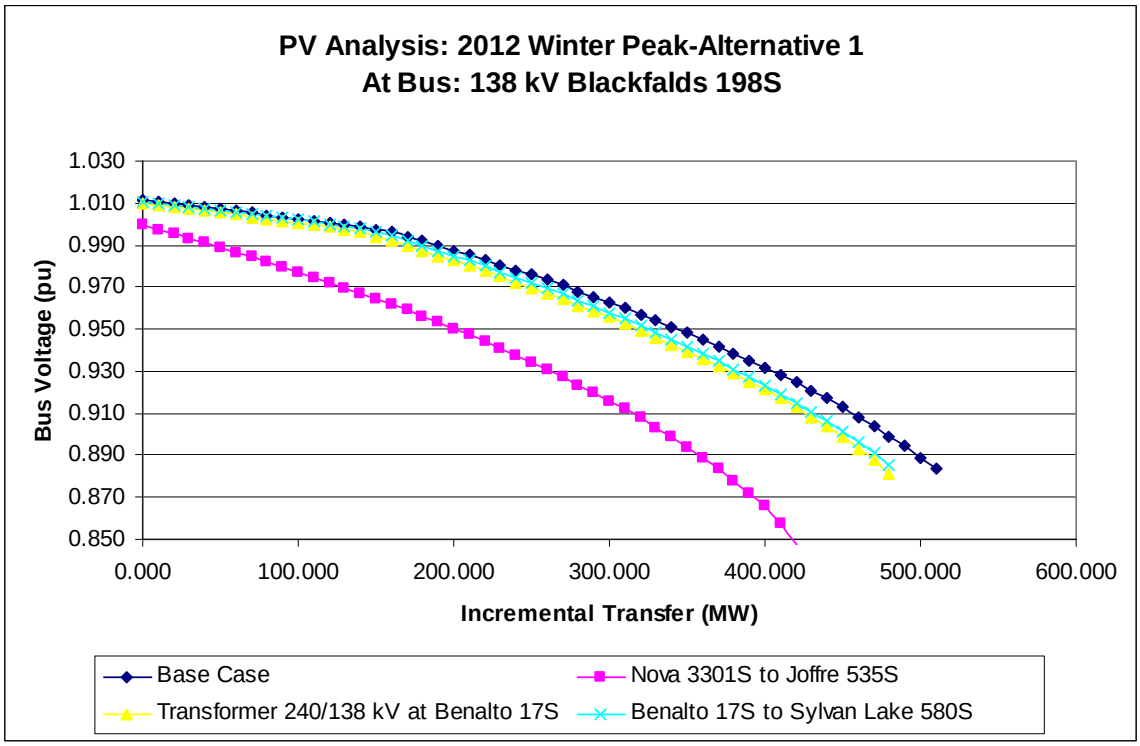
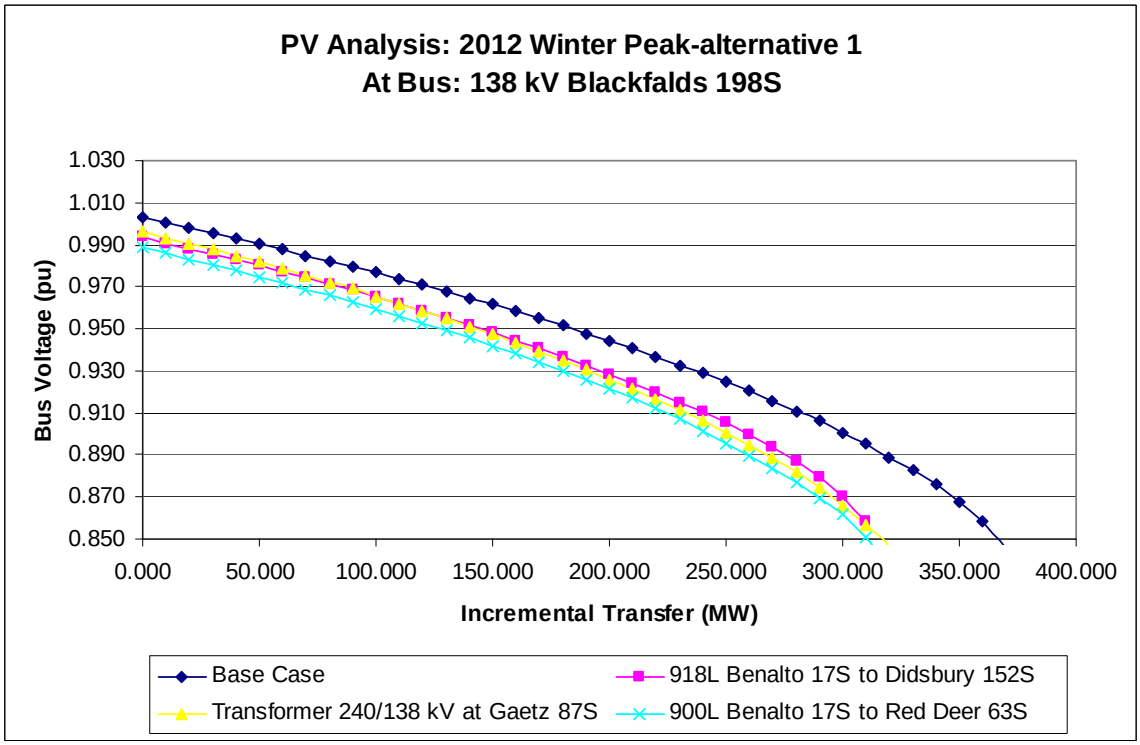


Fig 2012 –PV-6: Load Adequacy with Nova Off



2012 Winter Peak-Alternative 1 (138 kV Bus at Innisfail 214S) (Bus No. 120)

Figure No.	Scenario 1 (Nova On)			Scenario 2 (Nova Off)			Compliance with WECC voltage stability criteria
	Most Critical Contingency	Maximum real power margin at voltage collapse (knee) point		Most Critical Contingency	Maximum real power margin at voltage collapse (knee) point		
		(MW)	(%)		(MW)	(%)	
Load Adequacy							
Fig 2012-PV-7/ Fig 2012-PV-8	Base Case	340	49	Base Case	190	28	Yes
	Nova 3301S to Joffre 535S	220	32	918L Benalto 17S to Didsbury 152S	130	19	Yes
	Transformer 240/138 kV at Benalto 17S	310	45	Transformer 240/138 kV at Gaetz 87S	160	23	Yes
	Benalto 17S to Sylvan Lake 580S	320	46	900L Benalto 17S to Red Deer 63S	140	20	Yes

Fig 2012 –PV-7: Load Adequacy with Nova On

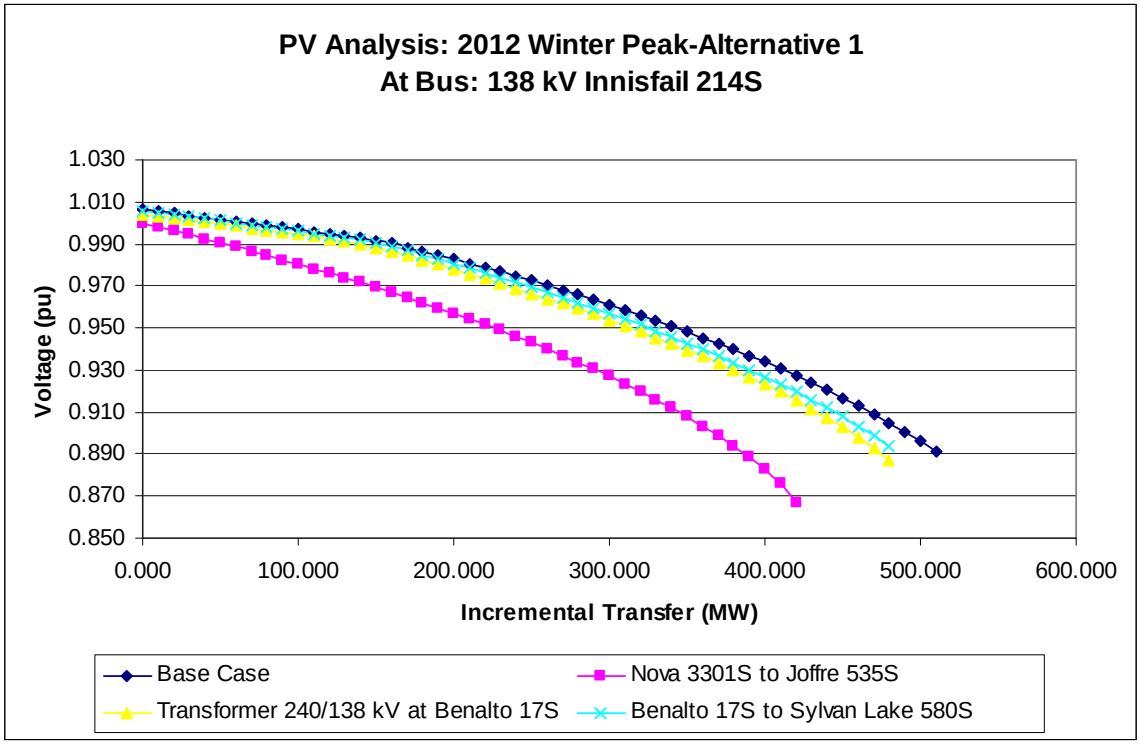
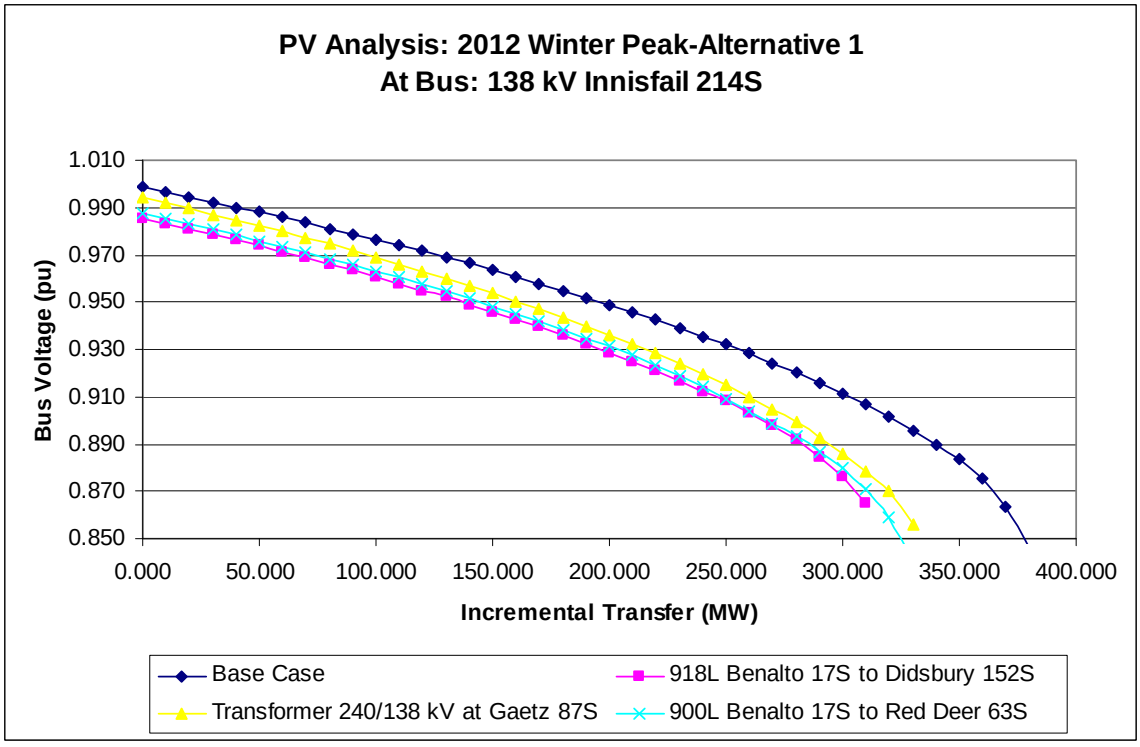


Fig 2012 –PV-8: Load Adequacy with Nova Off



2012Winter Peak-Alternative 1 (138 kV Bus at Rimbey 297S) (Bus No. 98)

Figure No.	Scenario 1 (Nova On)			Scenario 2 (Nova Off)			Compliance with WECC voltage stability criteria
	Most Critical Contingency	Maximum real power margin at voltage collapse (knee) point		Most Critical Contingency	Maximum real power margin at voltage collapse (knee) point		
		(MW)	(%)		(MW)	(%)	
Load Adequacy							
Fig 2012-PV-9/ Fig 2012-PV-10	Base Case	270	39	Base Case	160	23	Yes
	Nova 3301S to Joffre 535S	190	28	918L Benalto 17S to Didsbury 152S	120	17	Yes
	Transformer 240/138 kV at Benalto 17S	180	26	Transformer 240/138 kV at Gaetz 87S	140	20	Yes
	Benalto 17S to Sylvan Lake 580S	290	42	900L Benalto 17S to Red Deer 63S	150	22	Yes

Fig 2012 –PV-9: Load Adequacy with Nova On

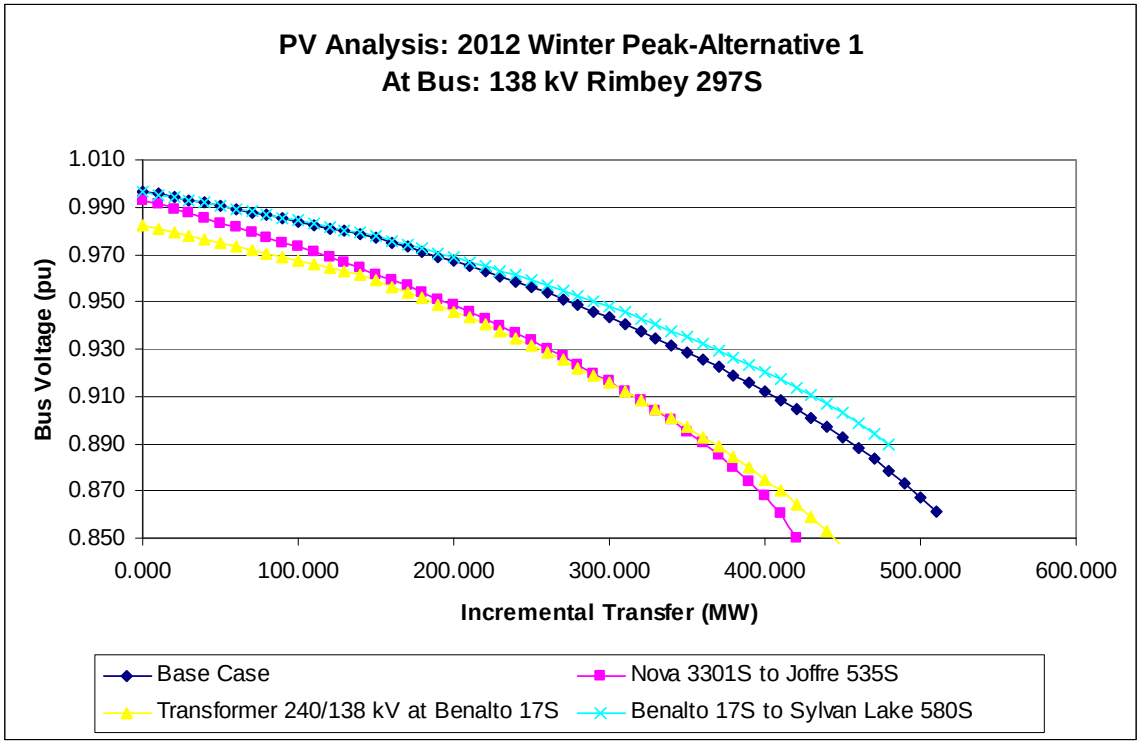
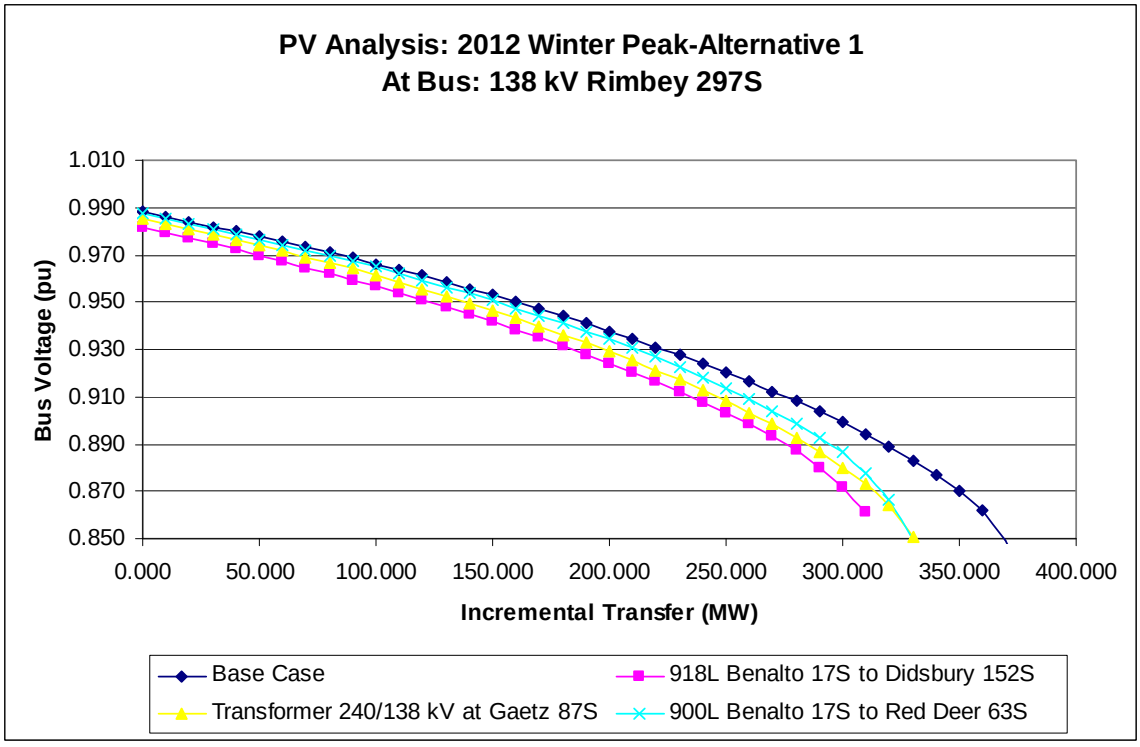


Fig 2012 –PV-10: Load Adequacy with Nova Off



Summary of P-V Analysis Results

Alternative 2

2012 Winter Peak-Alternative 2 (138 kV Bus at Joffre 535S)
(Bus No. 383)

Figure No.	Scenario 1 (Nova On)			Scenario 2 (Nova Off)			Compliance with WECC voltage stability criteria
	Most Critical Contingency	Maximum real power margin at voltage collapse (knee) point		Most Critical Contingency	Maximum real power margin at voltage collapse (knee) point		
		(MW)	(%)		(MW)	(%)	
Load Adequacy							
Fig 2012-PV-11/ Fig 2012-PV-12	Base Case	390	57	Base Case	190	28	Yes
	Nova 3301S to Joffre 535S	210	30	918L Benalto 17S to Didsbury 152S	160	23	Yes
	918L Benalto 17S to Didsbury 152S	350	51	80L S. Red Deer 194S to Red Deer 63S	140	20	Yes
	Transformer 240/138 kV at Red Deer 63S	340	49	Transformer 240/138 kV at Gaetz 87S	150	22	Yes

Fig 2012 –PV-11: Load Adequacy with Nova ON

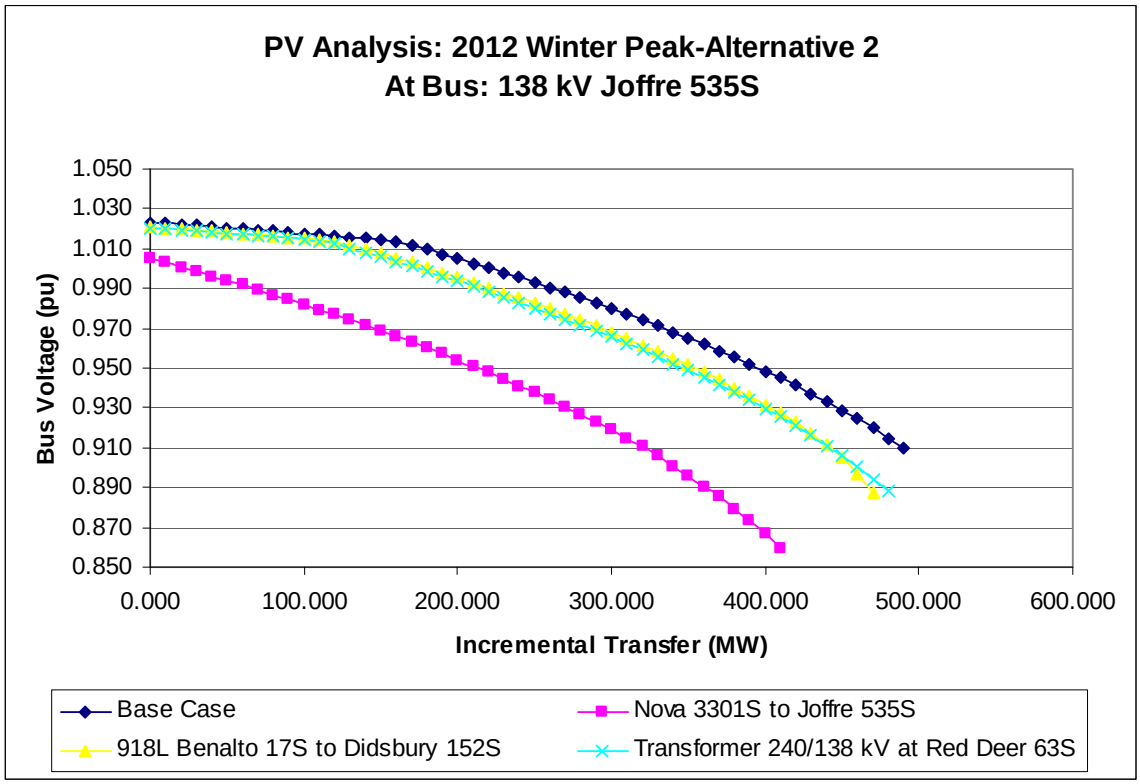
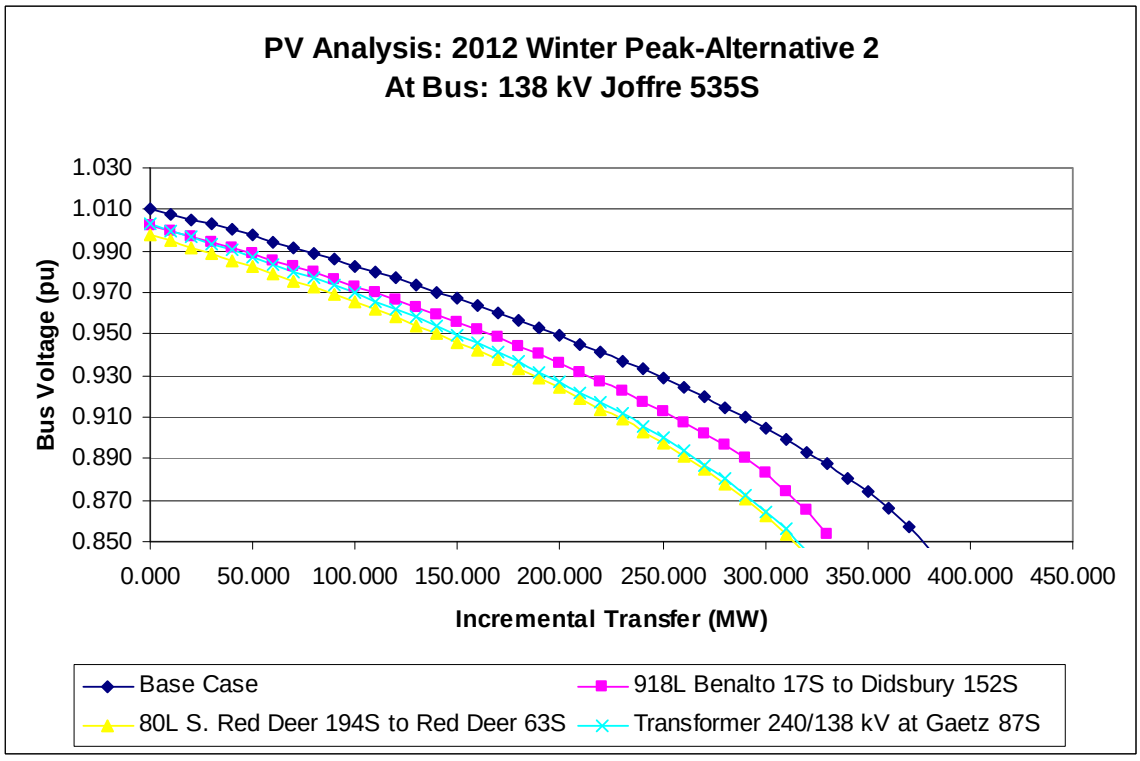


Fig 2012 –PV-12: Load Adequacy with Nova OFF



2012 Winter Peak-Alternative 2(138 kV Bus at Ellis 332S)
(Bus No. 388)

Figure No.	Scenario 1 (Nova On)			Scenario 2 (Nova Off)			Compliance with WECC voltage stability criteria
	Most Critical Contingency	Maximum real power margin at voltage collapse (knee) point		Most Critical Contingency	Maximum real power margin at voltage collapse (knee) point		
		(MW)	(%)		(MW)	(%)	
Load Adequacy							
Fig 2012-PV-13/ Fig 2012-PV-14	Base Case	340	49	Base Case	180	26	Yes
	Nova 3301S to Joffre 535S	170	25	918L Benalto 17S to Didsbury 152S	150	22	Yes
	918L Benalto 17S to Didsbury 152S	300	43	80L S. Red Deer 194S to Red Deer 63S	120	17	Yes
	Transformer 240/138 kV at Red Deer 63S	290	42	Transformer 240/138 kV at Gaetz 87S	140	20	Yes

Fig 2012 –PV-13: Load Adequacy with Nova On

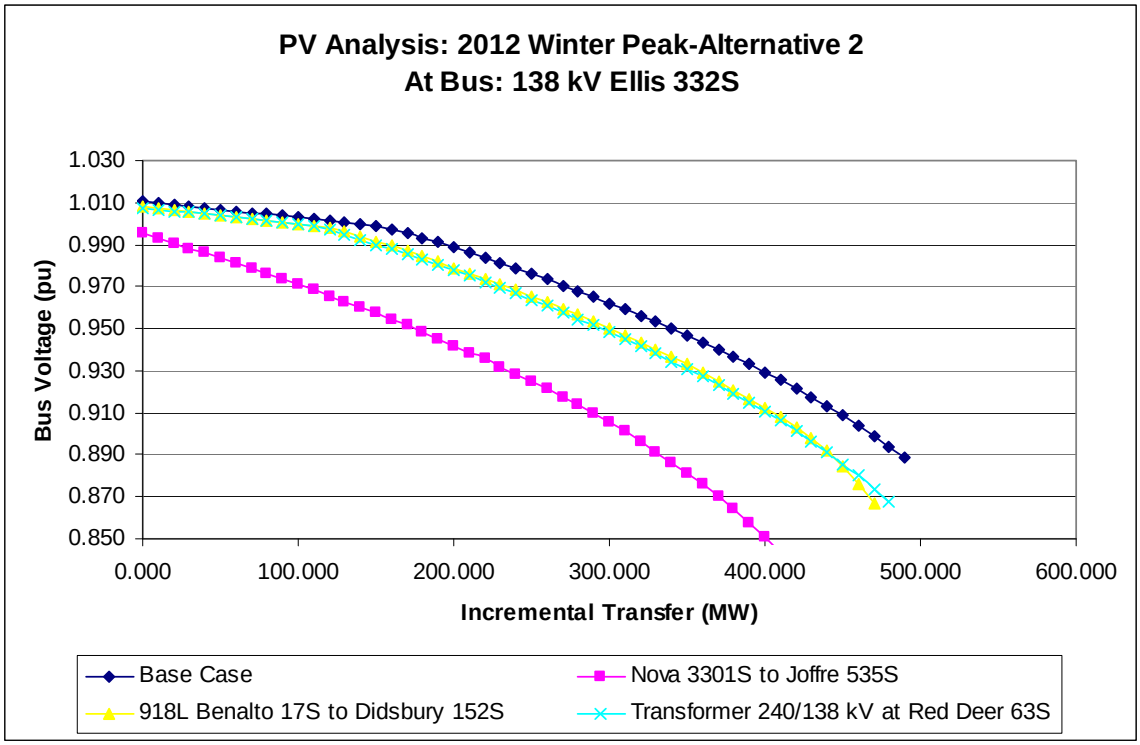
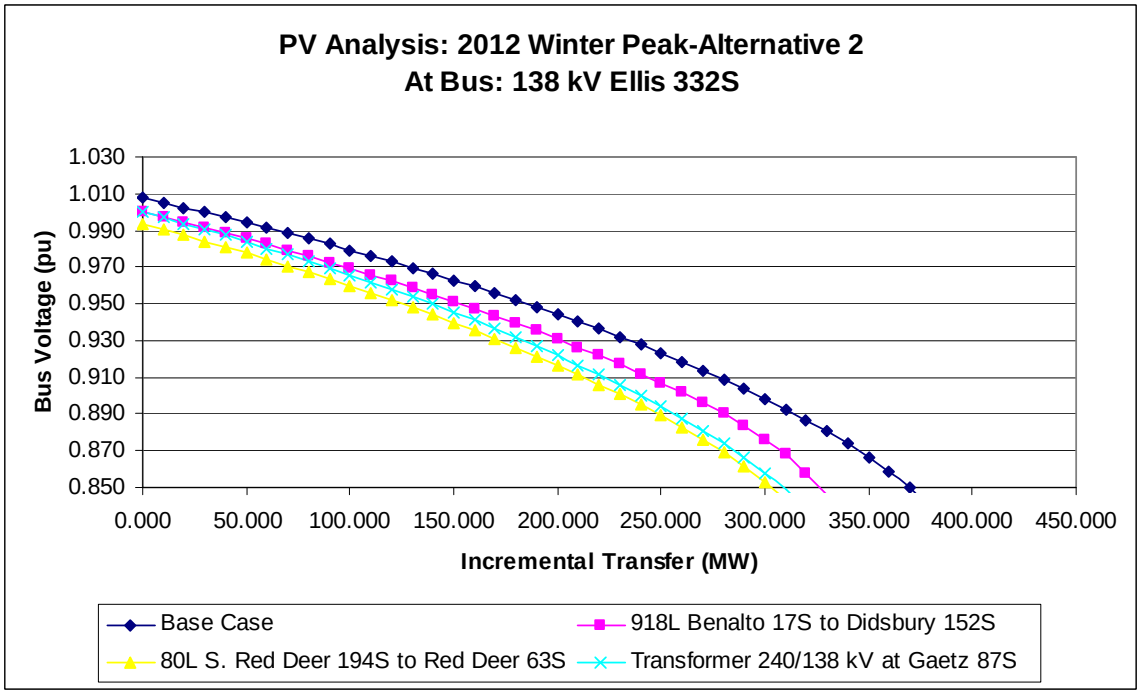


Fig 2012 –PV-14: Load Adequacy with Nova Off



2012 Winter Peak-Alternative 2(138 kV Bus at Blackfalds 198S) (Bus No. 113)

Figure No.	Scenario 1 (Nova On)			Scenario 2 (Nova Off)			Compliance with WECC voltage stability criteria
	Most Critical Contingency	Maximum real power margin at voltage collapse (knee) point		Most Critical Contingency	Maximum real power margin at voltage collapse (knee) point		
		(MW)	(%)		(MW)	(%)	
Load Adequacy							
Fig 2012-PV-15/ Fig 2012-PV-16	Base Case	340	49	Base Case	190	28	Yes
	Nova 3301S to Joffre 535S	200	29	918L Benalto 17S to Didsbury 152S	150	22	Yes
	918L Benalto 17S to Didsbury 152S	300	43	80L S. Red Deer 194S to Red Deer 63S	110	16	Yes
	Transformer 240/138 kV at Red Deer 63S	290	42	Transformer 240/138 kV at Gaetz 87S	140	20	Yes

Fig 2012 –PV-15: Load Adequacy with Nova On

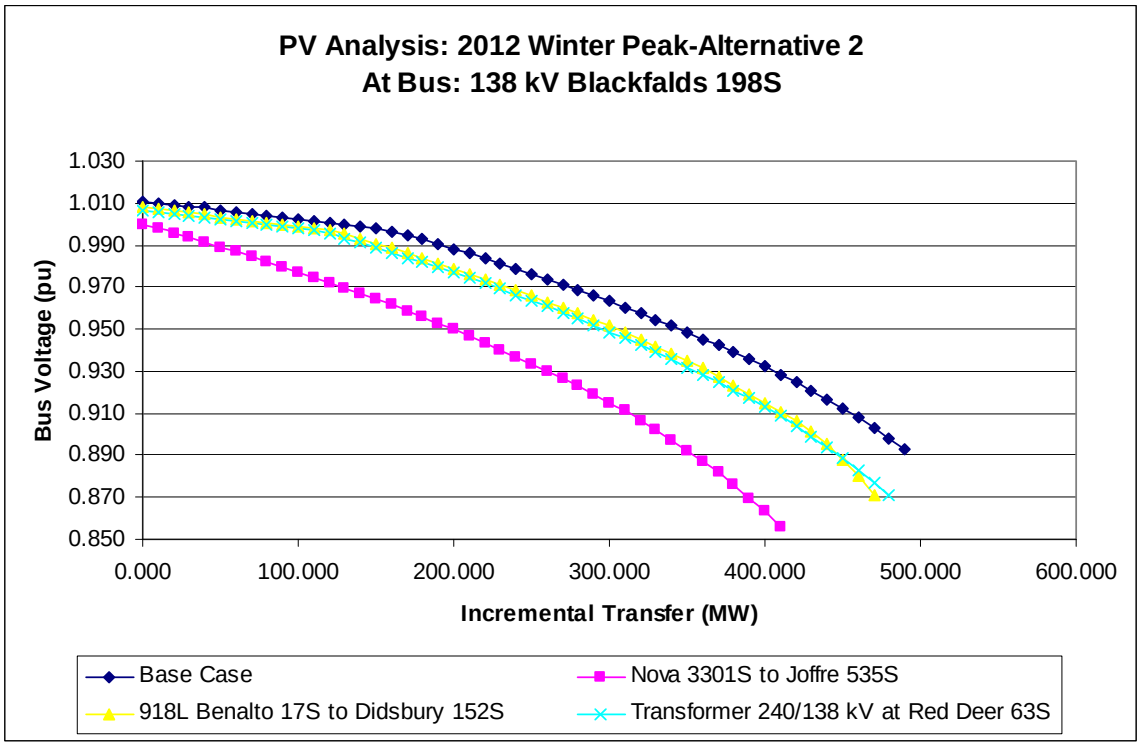
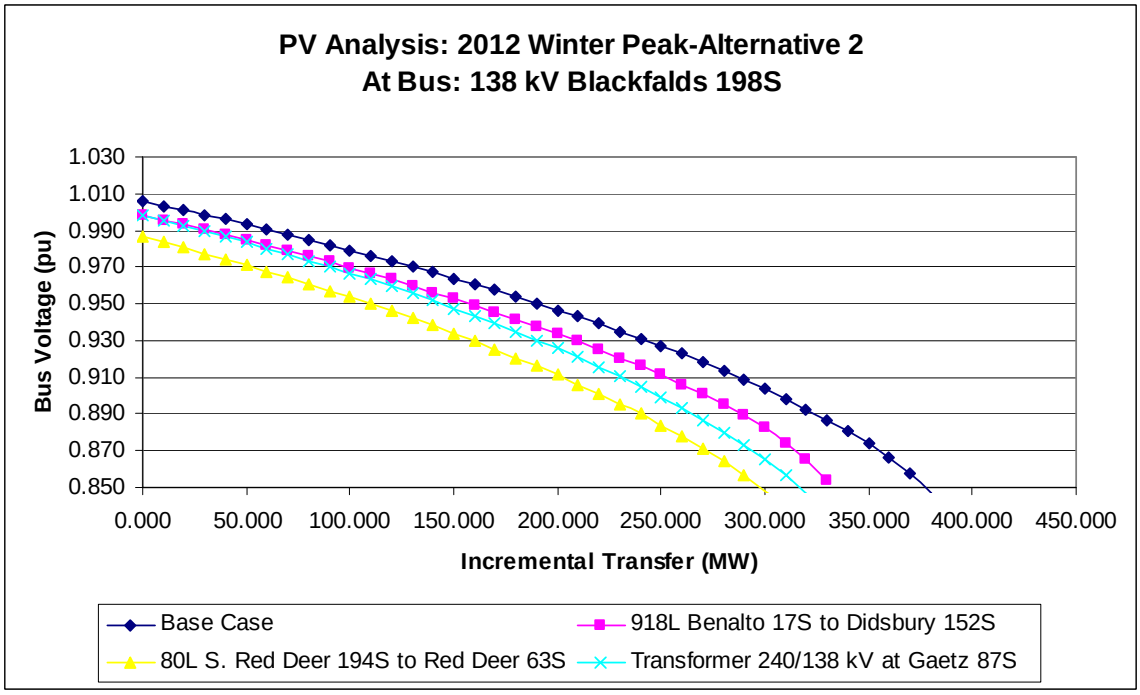


Fig 2012 –PV-16: Load Adequacy with Nova Off



2012 Winter Peak-Alternative 2 (138 kV Bus at Madden 373S) (Bus No. 122)

Figure No.	Scenario 1 (Nova On)			Scenario 2 (Nova Off)			Compliance with WECC voltage stability criteria
	Most Critical Contingency	Maximum real power margin at voltage collapse (knee) point		Most Critical Contingency	Maximum real power margin at voltage collapse (knee) point		
		(MW)	(%)		(MW)	(%)	
Load Adequacy							
Fig 2012-PV-17/ Fig 2012-PV-18	Base Case	310	45	Base Case	200	29	Yes
	Nova 3301S to Joffre 535S	240	35	918L Benalto 17S to Didsbury 152S	70	10	Yes
	918L Benalto 17S to Didsbury 152S	140	20	80L S. Red Deer 194S to Red Deer 63S	190	28	Yes
	Transformer 240/138 kV at Red Deer 63S	310	45	Transformer 240/138 kV at Gaetz 87S	180	26	Yes

Fig 2012 –PV-17: Load Adequacy with Nova On

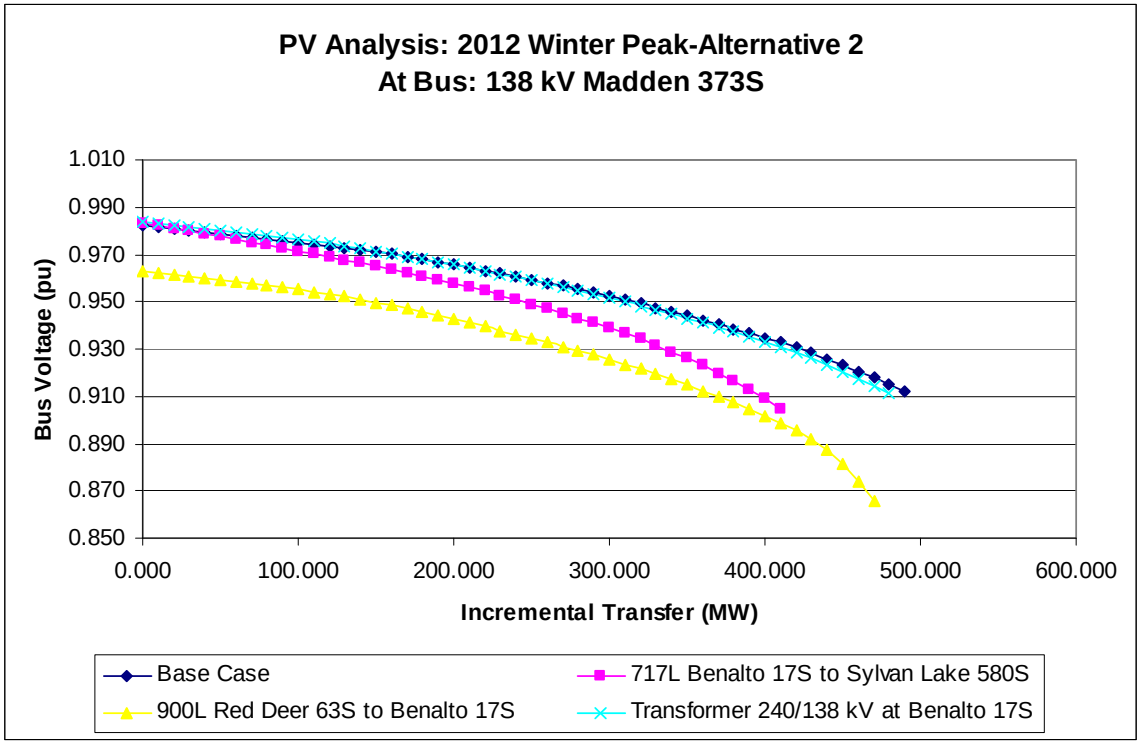
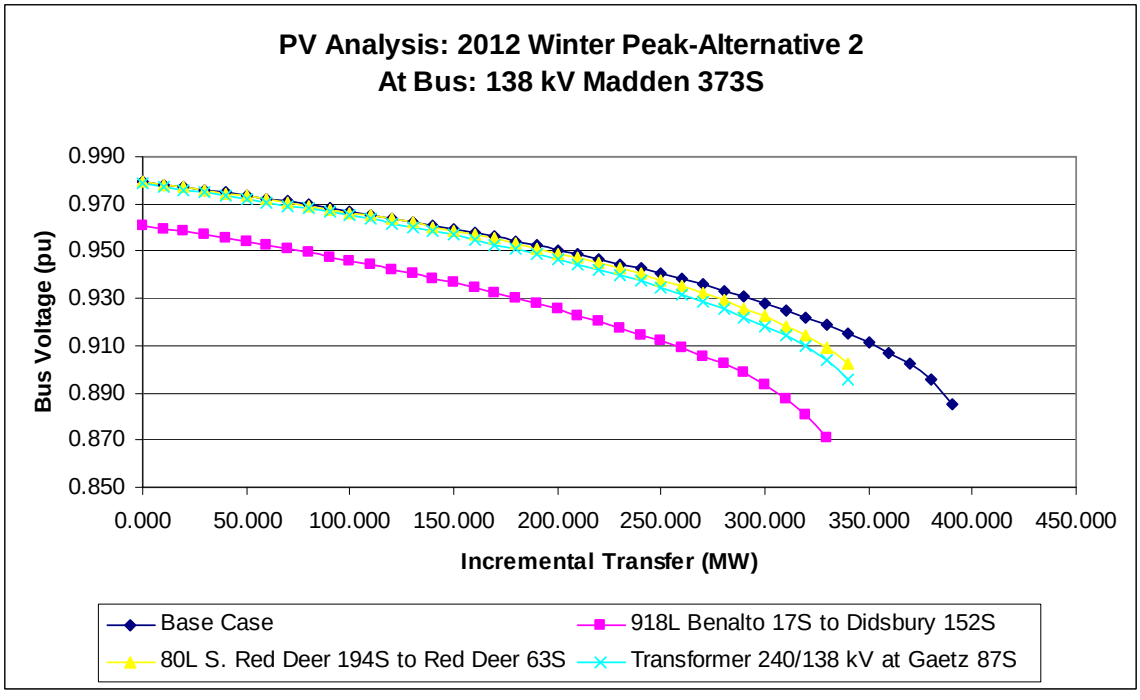


Fig 2012 –PV-18: Load Adequacy with Nova Off



2012 Winter Peak-Alternative 2 (138 kV Bus at Rimbey 297S) (Bus No. 98)

Figure No.	Scenario 1 (Nova On)			Scenario 2 (Nova Off)			Compliance with WECC voltage stability criteria
	Most Critical Contingency	Maximum real power margin at voltage collapse (knee) point		Most Critical Contingency	Maximum real power margin at voltage collapse (knee) point		
		(MW)	(%)		(MW)	(%)	
Load Adequacy							
Fig 2012-PV-19/ Fig 2012-PV-20	Base Case	280	41	Base Case	170	25	Yes
	Nova 3301S to Joffre 535S	200	29	918L Benalto 17S to Didsbury 152S	140	20	Yes
	918L Benalto 17S to Didsbury 152S	240	35	80L S. Red Deer 194S to Red Deer 63S	110	16	Yes
	Transformer 240/138 kV at Red Deer 63S	250	36	Transformer 240/138 kV at Gaetz 87S	180	26	Yes

Fig 2012 –PV-19: Load Adequacy with Nova On

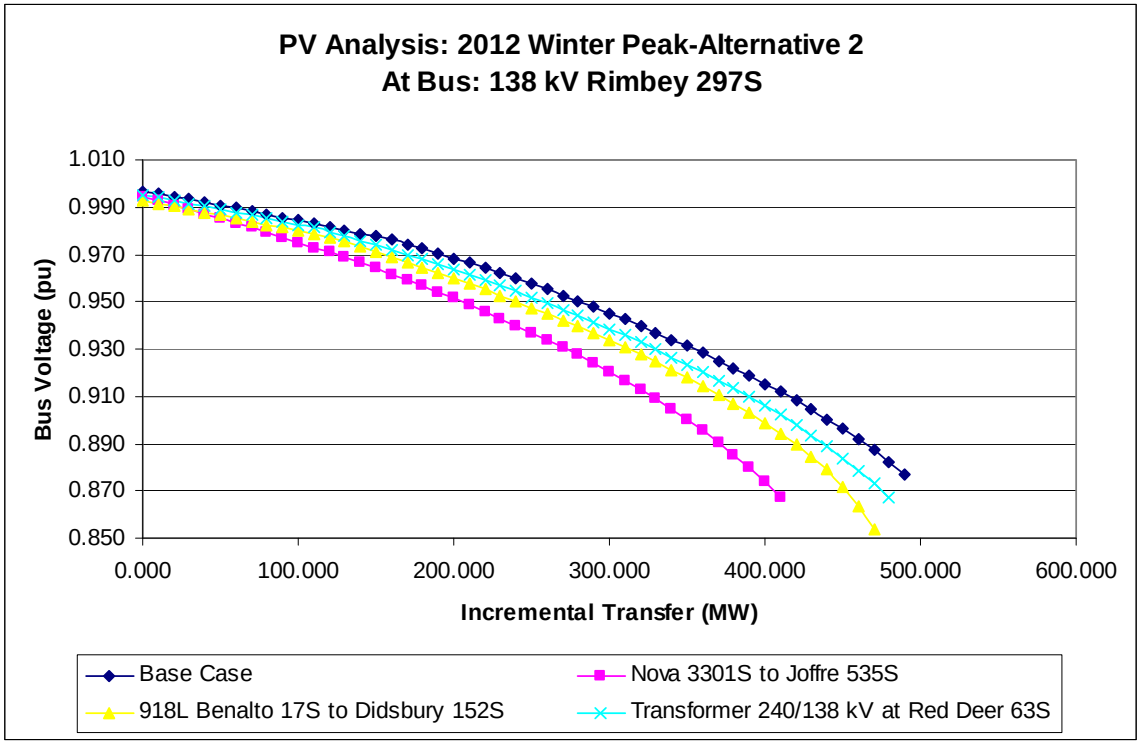
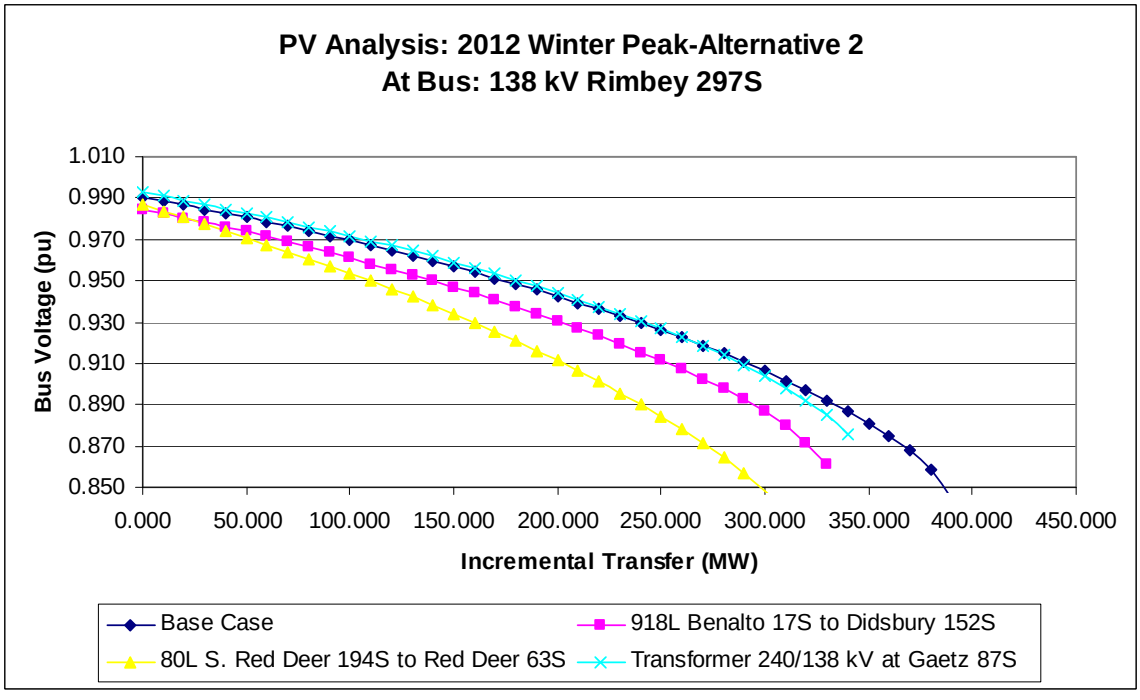


Fig 2012 –PV-20: Load Adequacy with Nova Off



The Q-V analysis for 2012 was carried out to ensure that the proposed network have enough reactive power reserve during normal and contingency conditions. All the Q-V curves show that during normal or contingency conditions, there is no deficiency of reactive power at these locations. All the critical cases show that with the implementation of Alternative 1, the system has adequate voltage stability margin and also shows the adequacy of the proposed reactive power support.

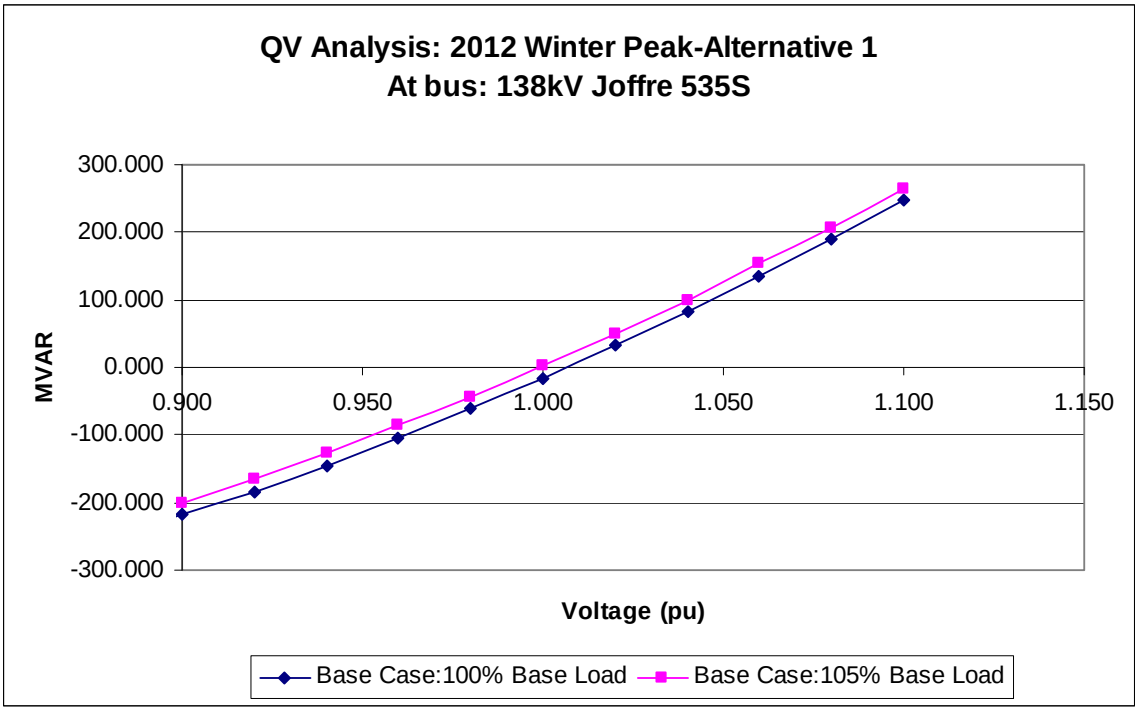
Summary of Q-V Analysis Results

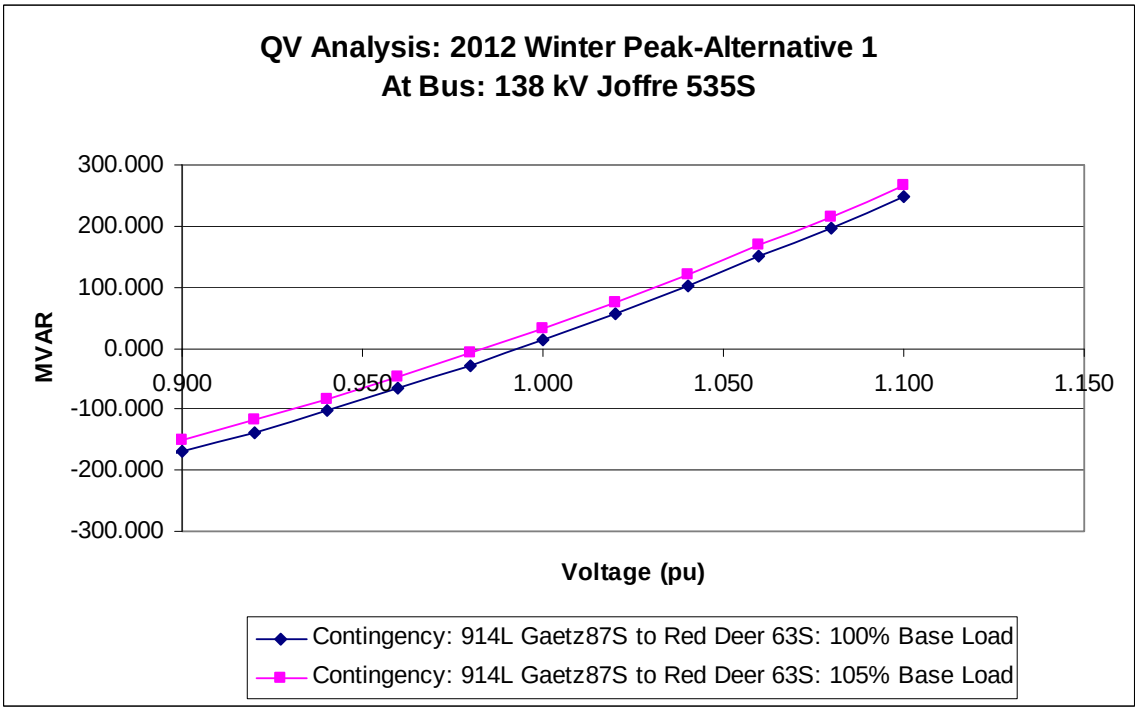
Alternative 1

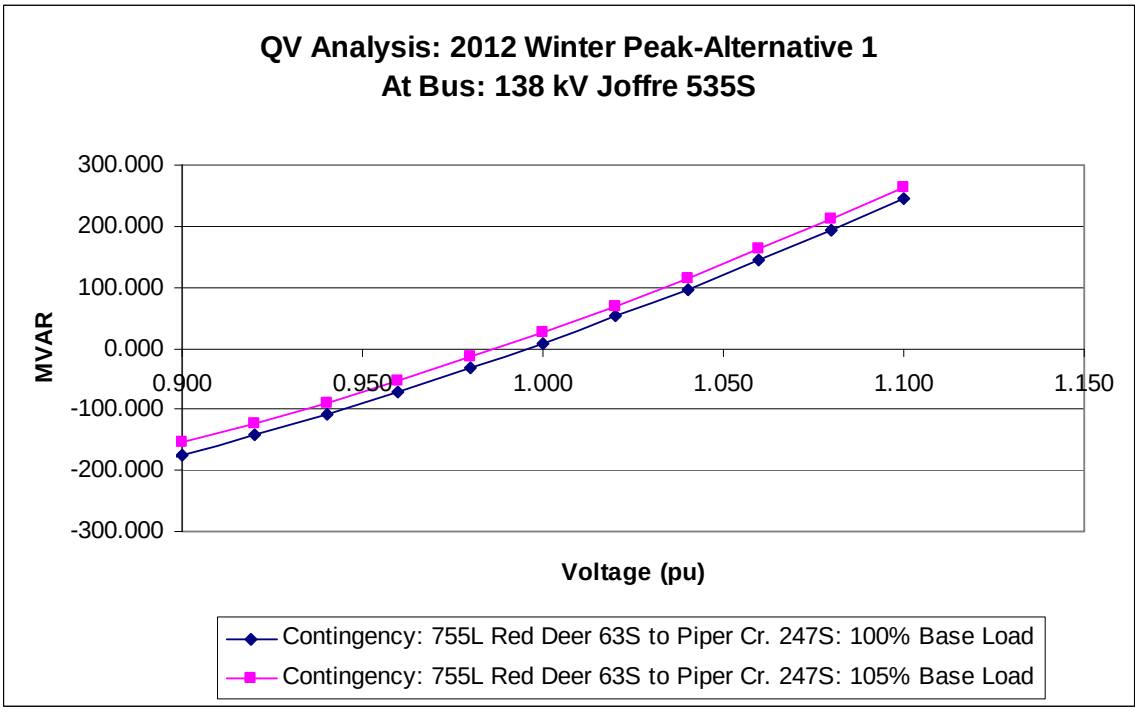
2012 Winter Peak- Alternative 1 (Nova Off)
(138 kV Bus at Joffre 535S)

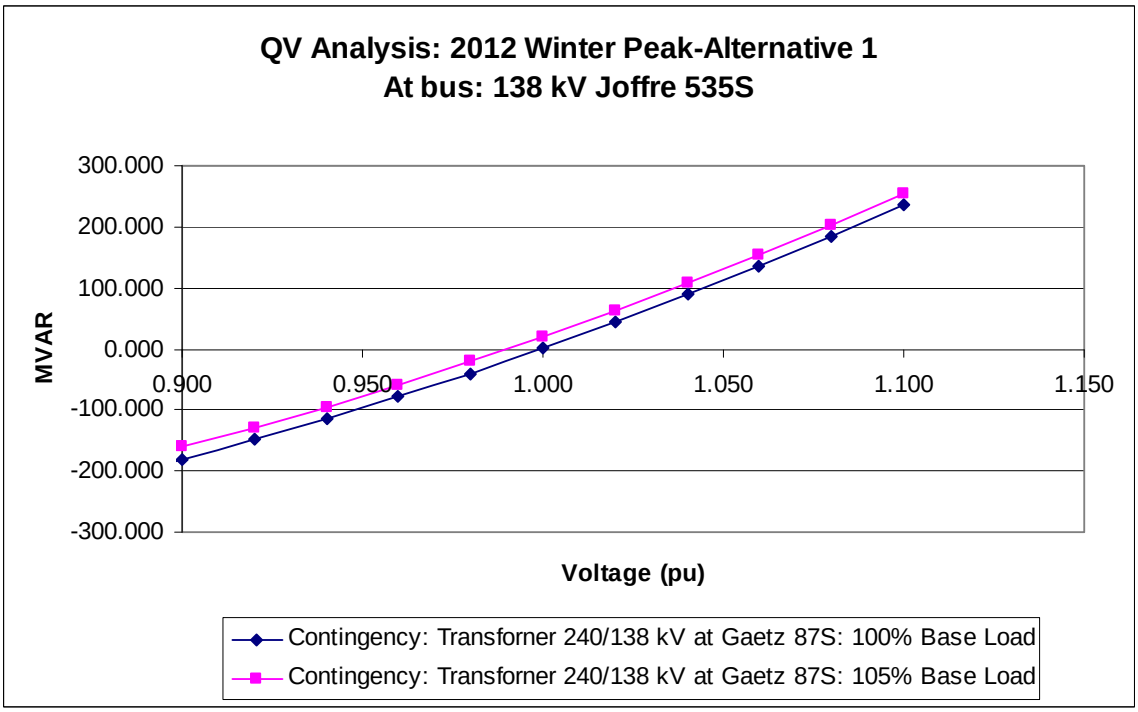
Bus 383: Joffre 535S 138 kV					
Figure No.	Most Critical Contingency		Maximum Reactive Margin (100% of base load)	Maximum Reactive Margin (105% of base load)	Compliance with WECC voltage stability criteria
Load Adequacy					
Fig 2012-QV-1		Base Case	-145	-127	Yes
	1	914L Gaetz87S to Red Deer 63S	-103	-84	Yes
	2	755L Red Deer 63S to Piper Cr. 247S	-108	-89	Yes
	3	Transformer 240/138 kV at Gaetz 87S	-115	-95	Yes

Fig 2012-QV-1: Load Adequacy with Nova OFF





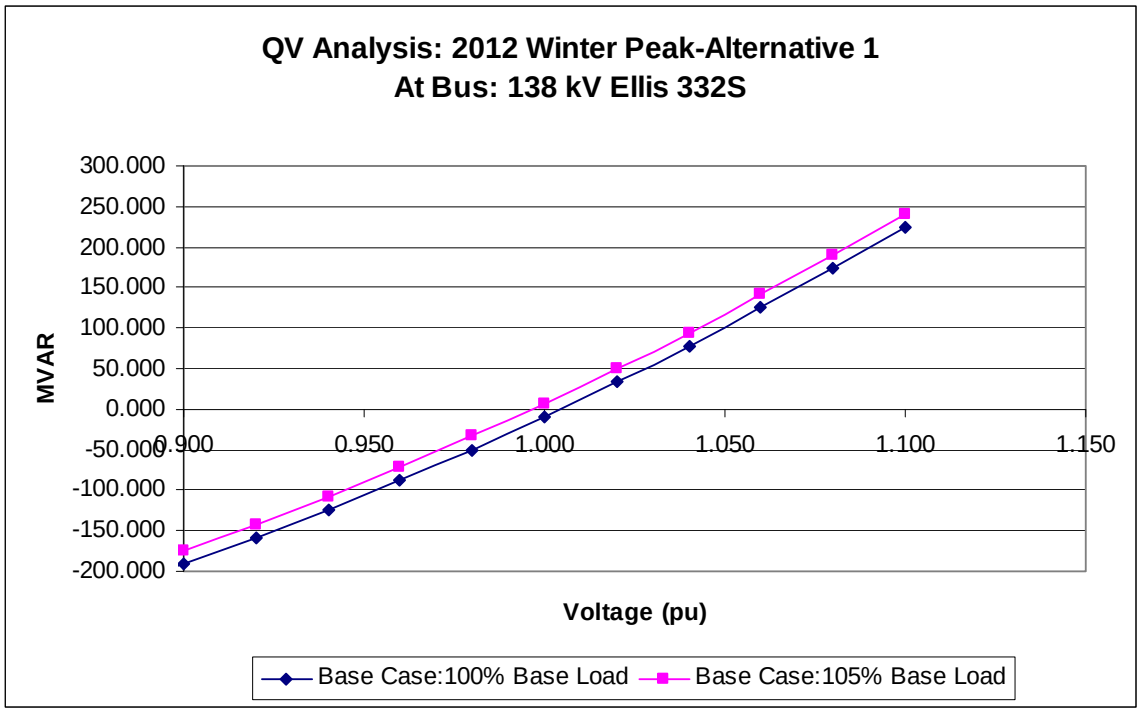

QV Analysis: 2012 Winter Peak-Alternative 1
At Bus: 138 kV Joffre 535S
300.000
200.000
100.000
0.000
-100.000
-200.000
-300.000
MVAR
0.900
0.950
1.000
1.050
1.100
1.150
Voltage (pu)
Contingency: 755L Red Deer 63S to Piper Cr. 247S: 100% Base Load
Contingency: 755L Red Deer 63S to Piper Cr. 247S: 105% Base Load

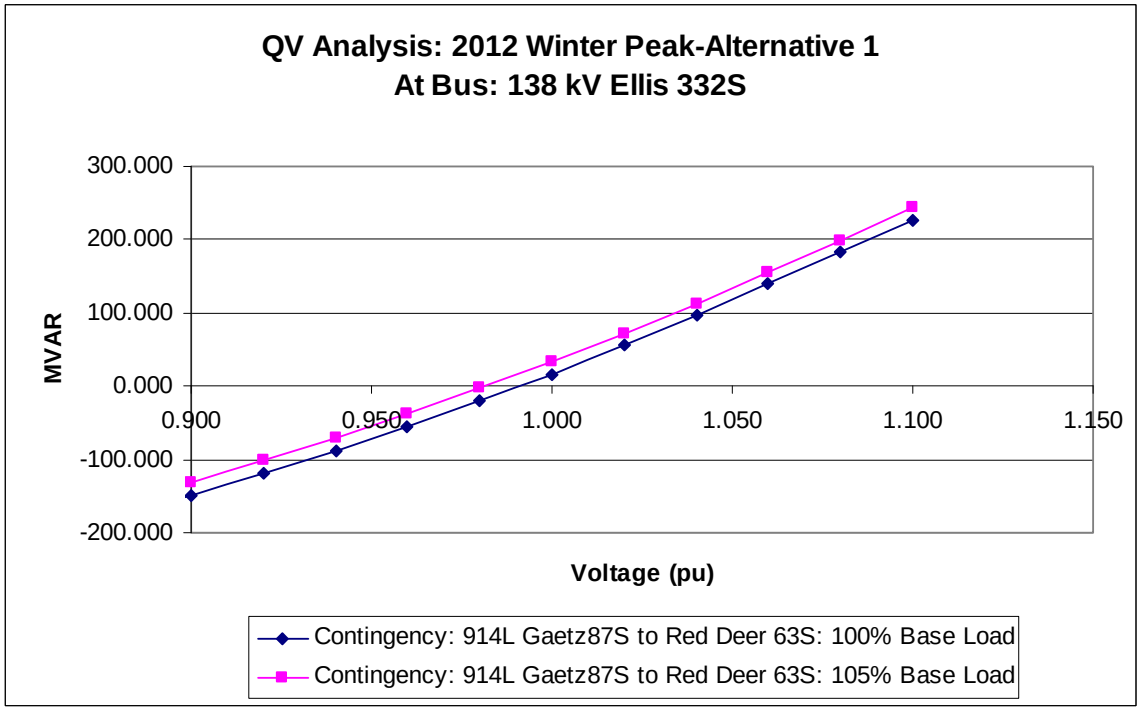

QV Analysis: 2012 Winter Peak-Alternative 1
At bus: 138 kV Joffre 535S
300.000
200.000
100.000
0.000
-100.000
-200.000
-300.000
MVAR
0.900
0.950
1.000
1.050
1.100
1.150
Voltage (pu)
Contingency: Transforner 240/138 kV at Gaetz 87S: 100% Base Load
Contingency: Transforner 240/138 kV at Gaetz 87S: 105% Base Load

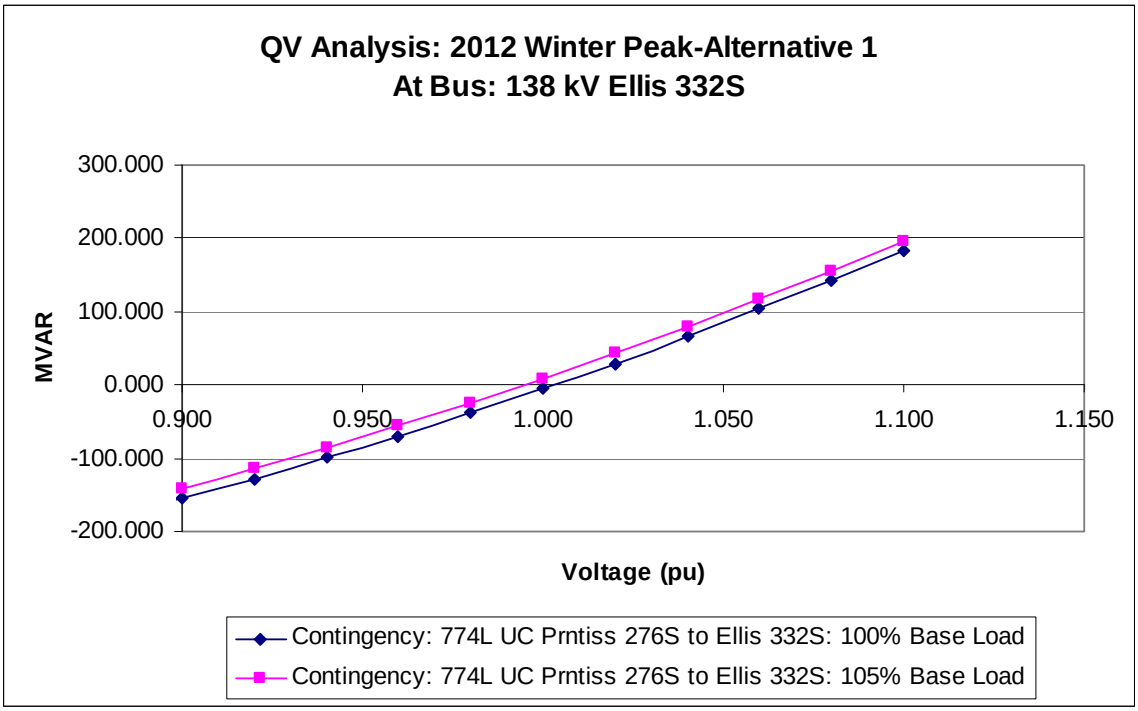
2012 Winter Peak- Alternative 1 (Nova Off)
(138 kV Bus at Ellis 332S)

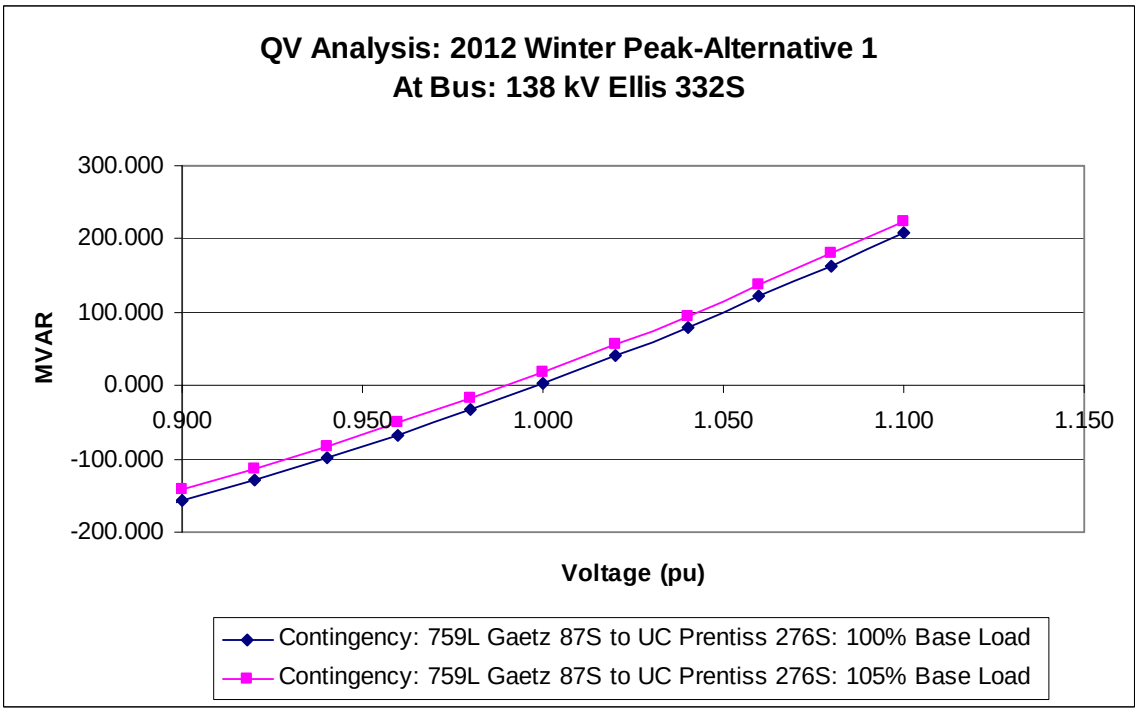
Bus 388: Ellis 332S 138 kV					
Figure No.		Most Critical Contingency	Maximum Reactive Margin (100% of base load)	Maximum Reactive Margin (105% of base load)	Compliance with WECC voltage stability criteria
Load Adequacy					
Fig 2012-QV-2		Base Case	-125	-108	Yes
	1	914L Gaetz87S to Red Deer 63S	-88	-71	Yes
	2	774L UC Prentiss 276S to Ellis 332S	-99	-86	Yes
	3	759L Gaetz 87S to UC Prentiss 276S	-99	-83	Yes

Fig 2012-QV-2: Load Adequacy with Nova OFF





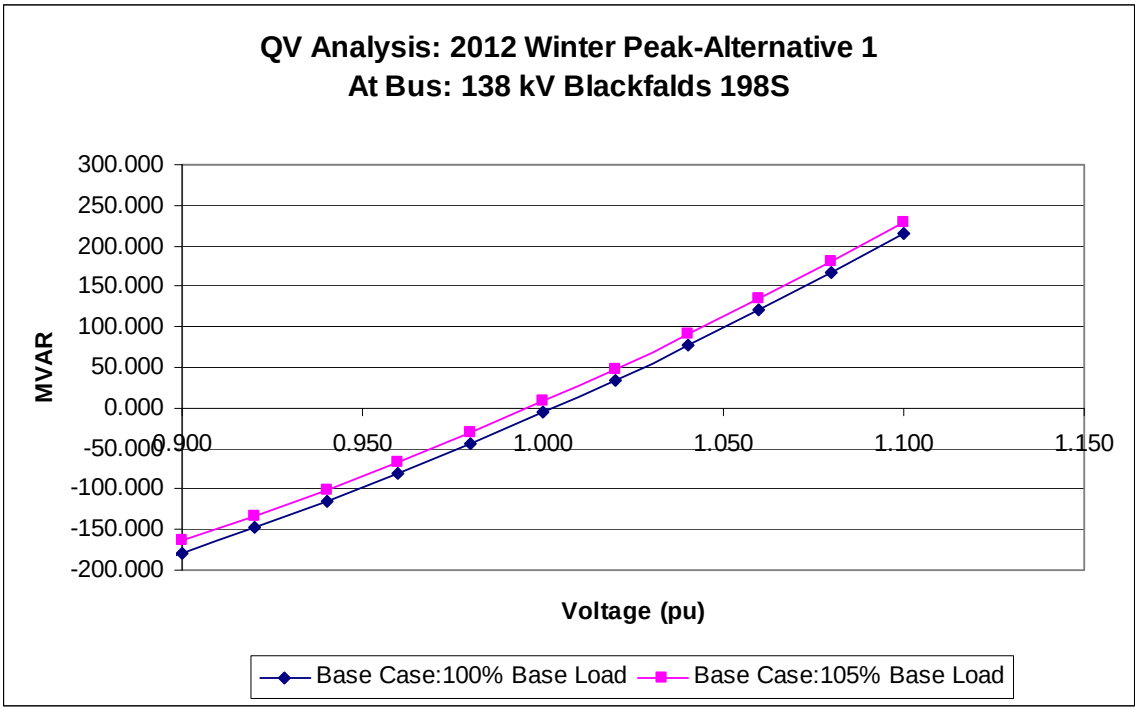

QV Analysis: 2012 Winter Peak-Alternative 1
At Bus: 138 kV Ellis 332S
300.000
200.000
100.000
0.000
-100.000
-200.000
MVAR
0.900
0.950
1.000
1.050
1.100
1.150
Voltage (pu)
Contingency: 774L UC Prntiss 276S to Ellis 332S: 100% Base Load
Contingency: 774L UC Prntiss 276S to Ellis 332S: 105% Base Load

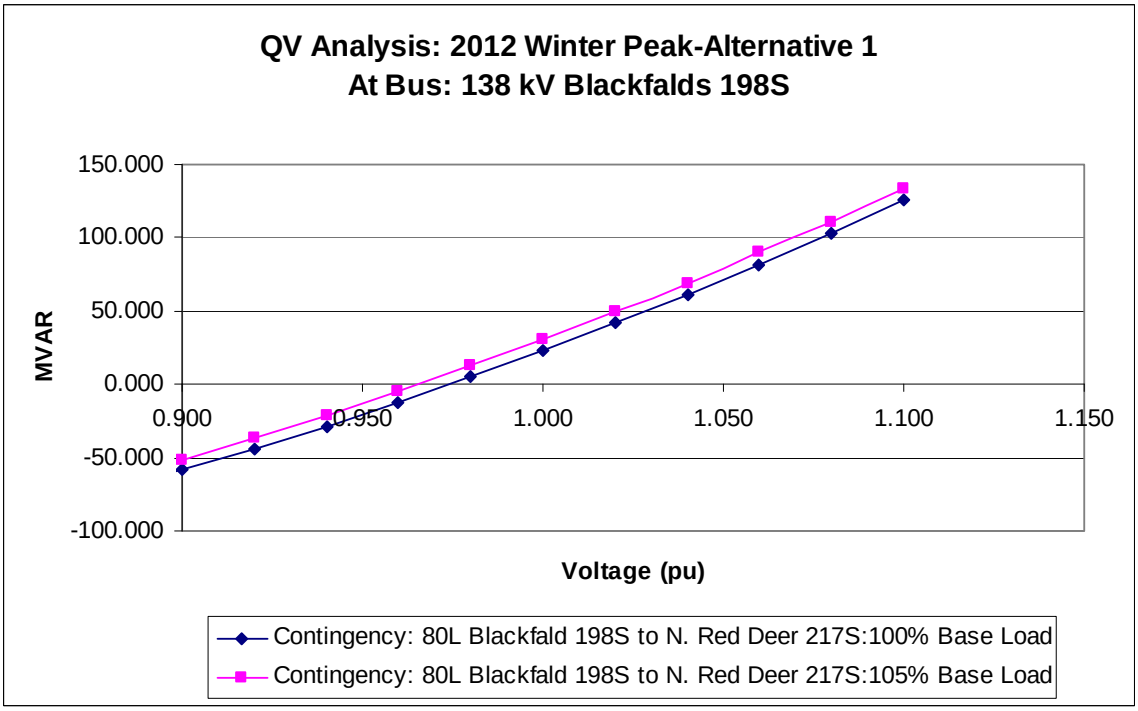

QV Analysis: 2012 Winter Peak-Alternative 1
At Bus: 138 kV Ellis 332S
300.000
200.000
100.000
0.000
-100.000
-200.000
MVAR
0.900
0.950
1.000
1.050
1.100
1.150
Voltage (pu)
Contingency: 759L Gaetz 87S to UC Prentiss 276S: 100% Base Load
Contingency: 759L Gaetz 87S to UC Prentiss 276S: 105% Base Load

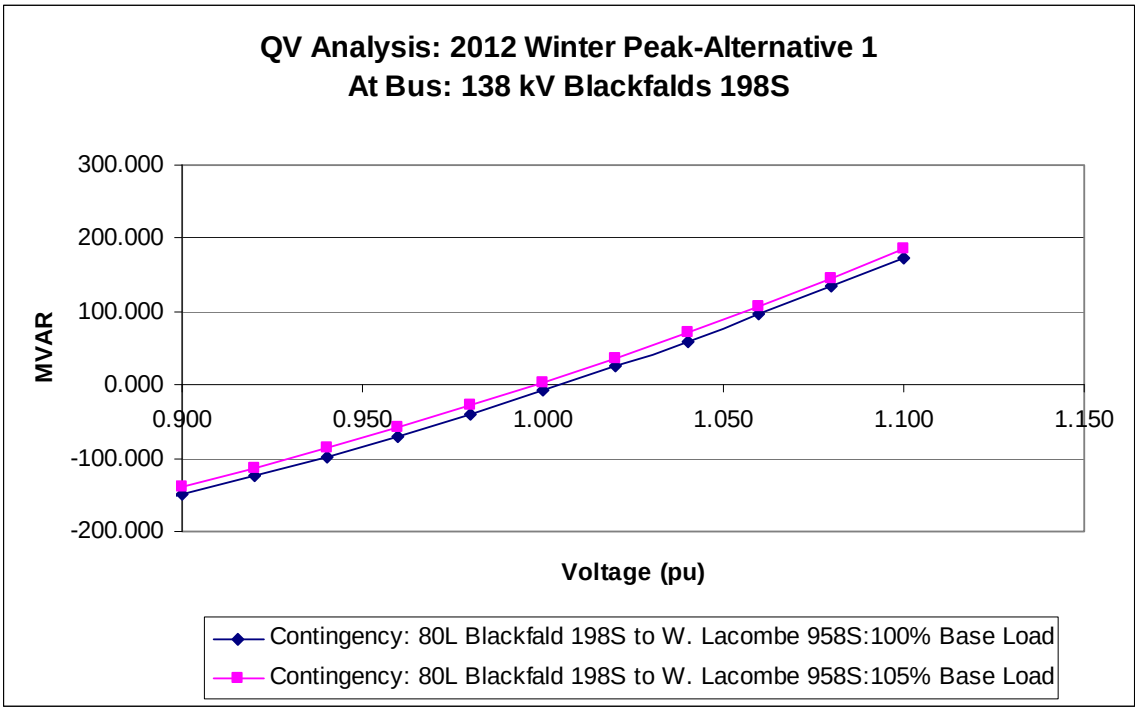
2012 Winter Peak- Alternative 1 (Nova Off)
(138 kV Bus at Blackfalds 198S)

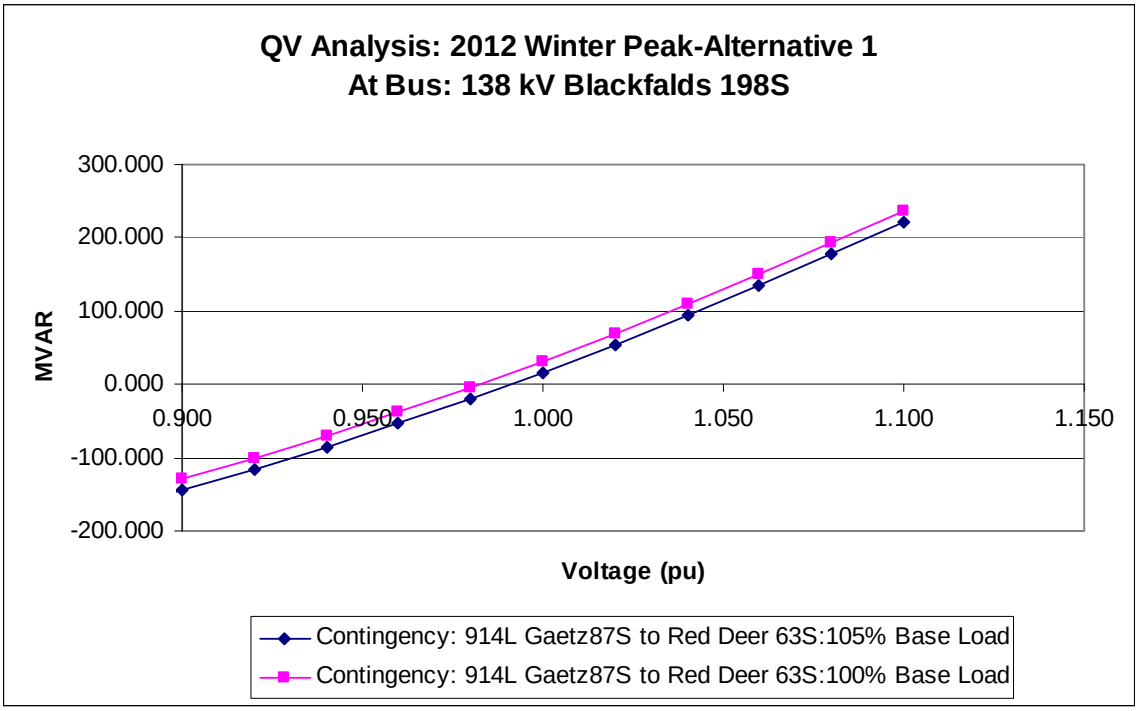
Bus 113: Blackfalds 198S 138 kV					
Figure No.	Most Critical Contingency		Maximum Reactive Margin (100% of base load)	Maximum Reactive Margin (105% of base load)	Compliance with WECC voltage stability criteria
Load Adequacy					
Fig 2012-QV-3		Base Case	-115	-101	Yes
	1	80L Blackfalds 198S to N. Red Deer 217S	-28	-21	Yes
	2	80L Blackfalds 198S to W. Lacombe 958S	-98	-86	Yes
	3	914L Gaetz87S to Red Deer 63S	-86	-71	Yes

Fig 2012-QV-3: Load Adequacy with Nova OFF





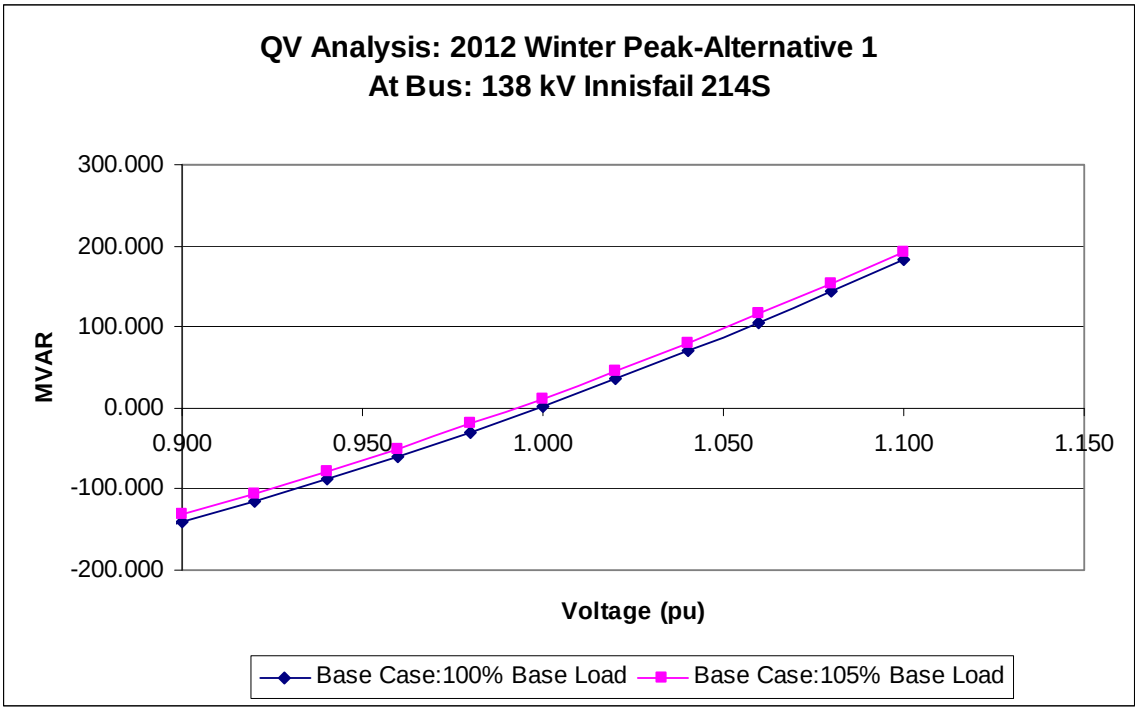

QV Analysis: 2012 Winter Peak-Alternative 1
At Bus: 138 kV Blackfalds 198S
300.000
200.000
100.000
0.000
-100.000
-200.000
MVAR
0.900
0.950
1.000
1.050
1.100
1.150
Voltage (pu)
Contingency: 80L Blackfald 198S to W. Lacombe 958S:100% Base Load
Contingency: 80L Blackfald 198S to W. Lacombe 958S:105% Base Load

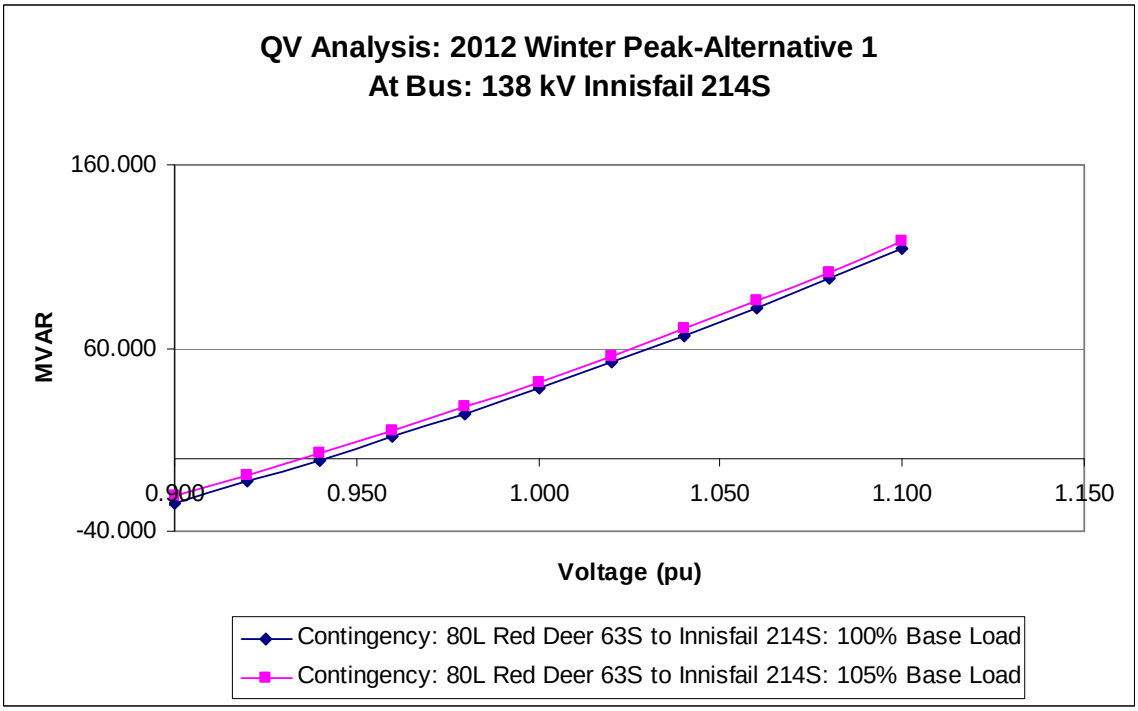

QV Analysis: 2012 Winter Peak-Alternative 1
At Bus: 138 kV Blackfalds 198S
300.000
200.000
100.000
0.000
-100.000
-200.000
MVAR
0.900
0.950
1.000
1.050
1.100
1.150
Voltage (pu)
Contingency: 914L Gaetz87S to Red Deer 63S:105% Base Load
Contingency: 914L Gaetz87S to Red Deer 63S:100% Base Load

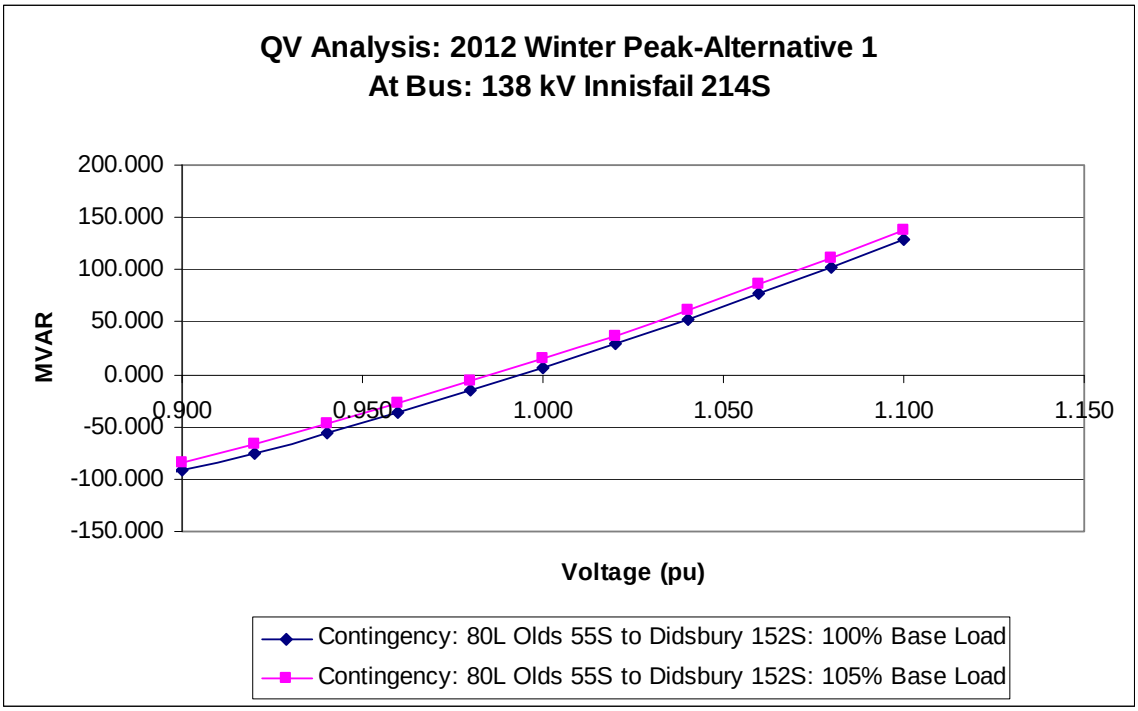
2012 Winter Peak- Alternative 1 (Nova Off)
(138 kV Bus at Innisfail 214S)

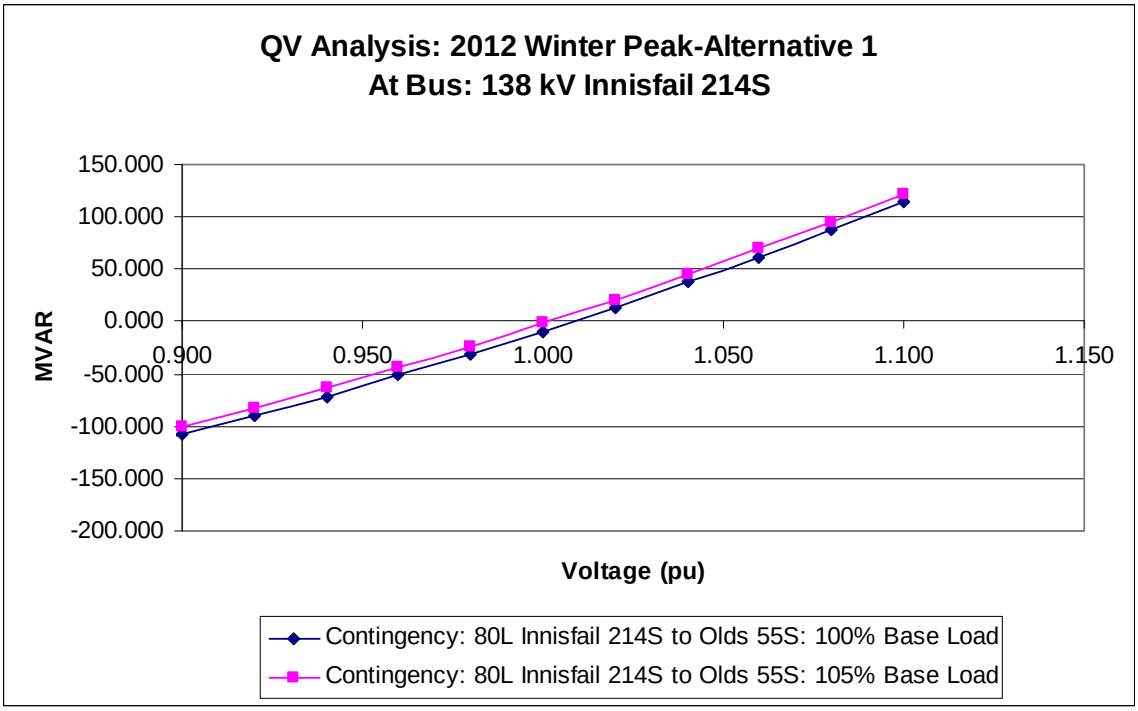
Bus 120: Innisfail 214S 138 kV					
Figure No.		Most Critical Contingency	Maximum Reactive Margin (100% of base load)	Maximum Reactive Margin (105% of base load)	Compliance with WECC voltage stability criteria
Load Adequacy					
Fig 2012-QV-4		Base Case	-88	-79	Yes
	1	80L Red Deer 63S to Innisfail 214S	-1	2	No
	2	80L Olds 55S to Didsbury 152S	-56	-47	Yes
	3	80L Innisfail 214S to Olds 55S	-71	-64	Yes

Fig 2012-QV-4: Load Adequacy with Nova OFF






QV Analysis: 2012 Winter Peak-Alternative 1
At Bus: 138 kV Innisfail 214S
200.000
150.000
100.000
50.000
0.000
-50.000
-100.000
-150.000
MVAR
0.900
0.950
1.000
1.050
1.100
1.150
Voltage (pu)
Contingency: 80L Olds 55S to Didsbury 152S: 100% Base Load
Contingency: 80L Olds 55S to Didsbury 152S: 105% Base Load


QV Analysis: 2012 Winter Peak-Alternative 1
At Bus: 138 kV Innisfail 214S
150.000
100.000
50.000
0.000
-50.000
-100.000
-150.000
-200.000
MVAR
0.900
0.950
1.000
1.050
1.100
1.150
Voltage (pu)
Contingency: 80L Innisfail 214S to Olds 55S: 100% Base Load
Contingency: 80L Innisfail 214S to Olds 55S: 105% Base Load

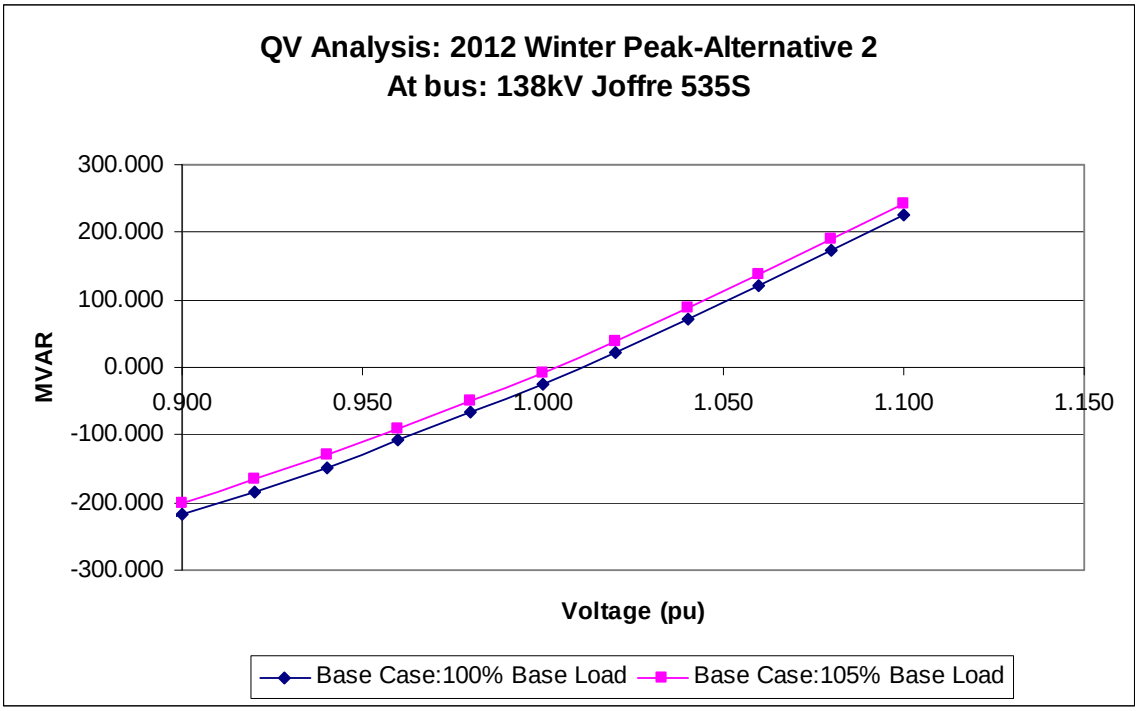
Summary of Q-V Analysis Results

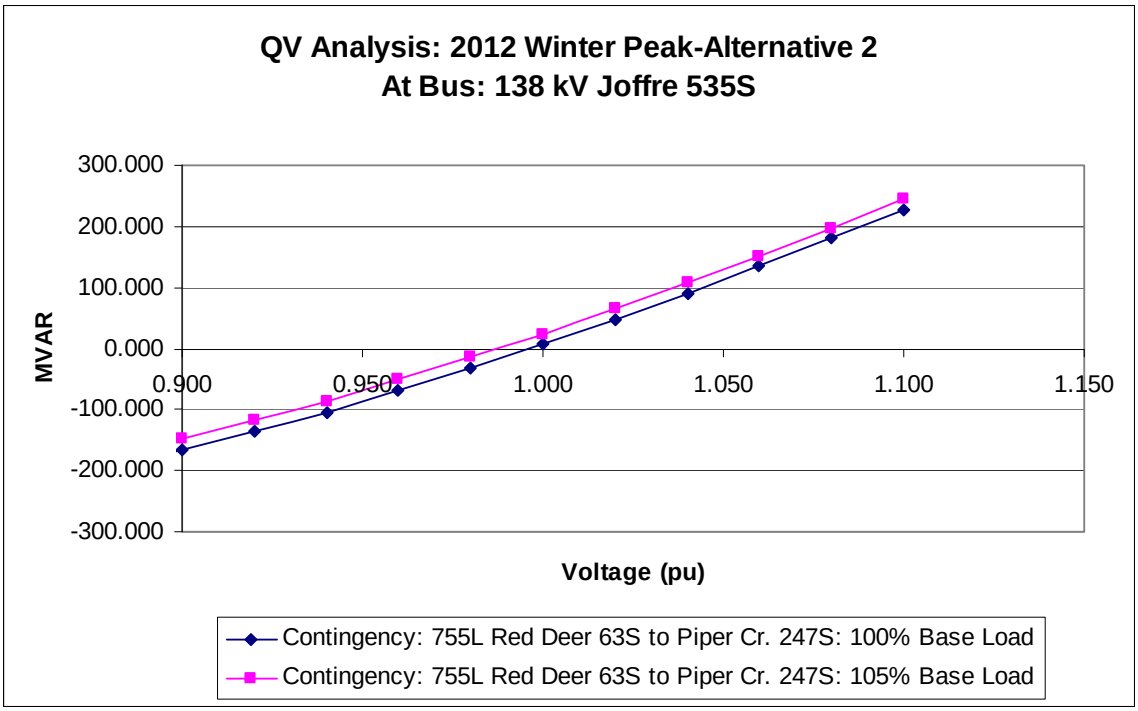
Alternative 2

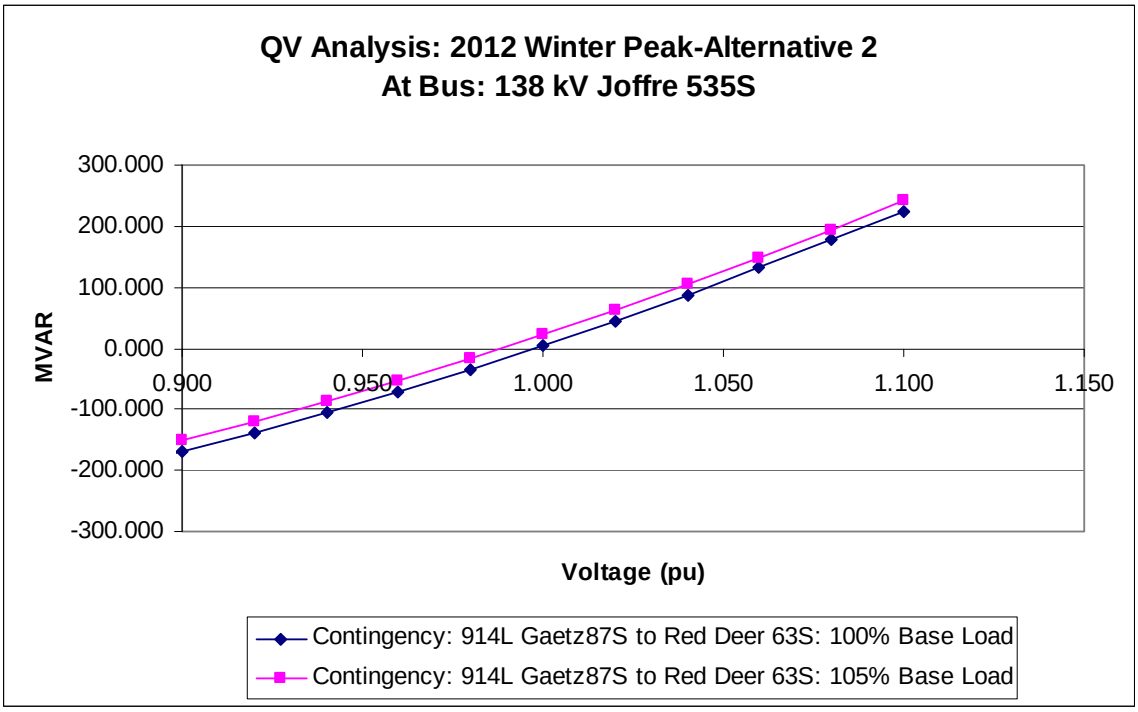
2012 Winter Peak- Alternative 2 (Nova Off)
(138 kV Bus at Joffre 535S)

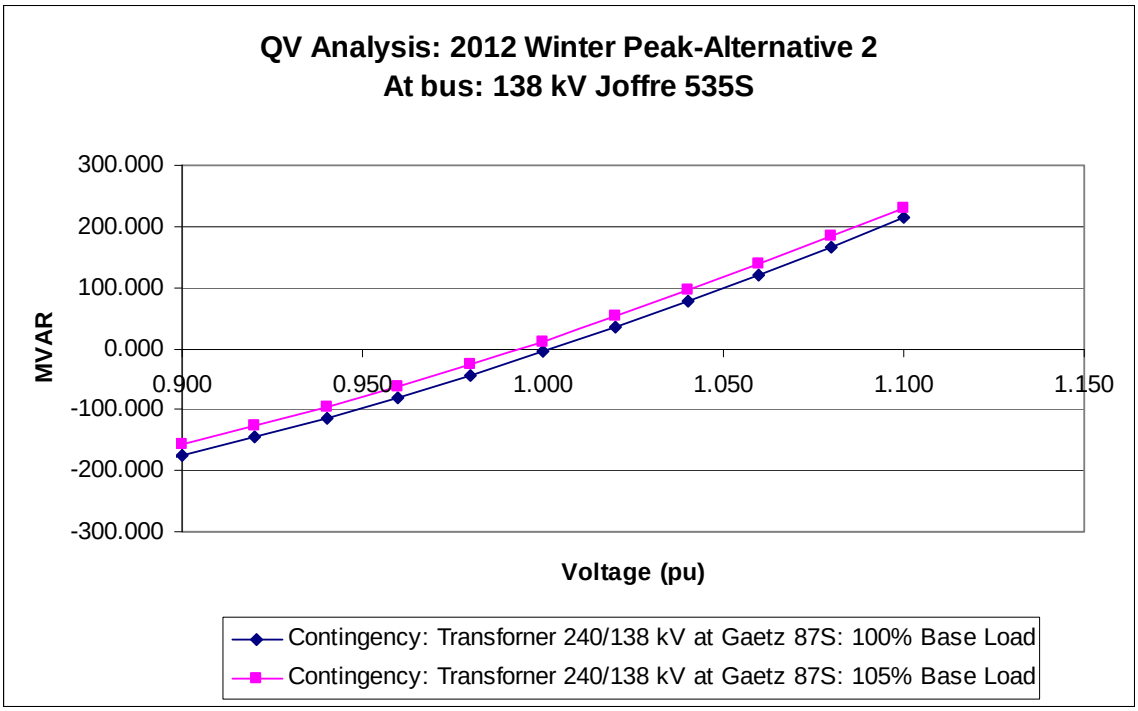
Bus 383: Joffre 535S 138 KV					
Figure No.	Most Critical Contingency		Maximum Reactive Margin (100% of base load)	Maximum Reactive Margin (105% of base load)	Compliance with WECC voltage stability criteria
Load Adequacy					
Fig 2012-QV-5		Base Case	-147	-130	Yes
	1	755L Red Deer 63S to Piper Cr. 247S	-104	-86	Yes
	2	914L Gaetz87S to Red Deer 63S	-106	-88	Yes
	3	Transformer 240/138 kV at Gaetz 87S	-114	-95	Yes

Fig 2012-QV-5: Load Adequacy with Nova OFF





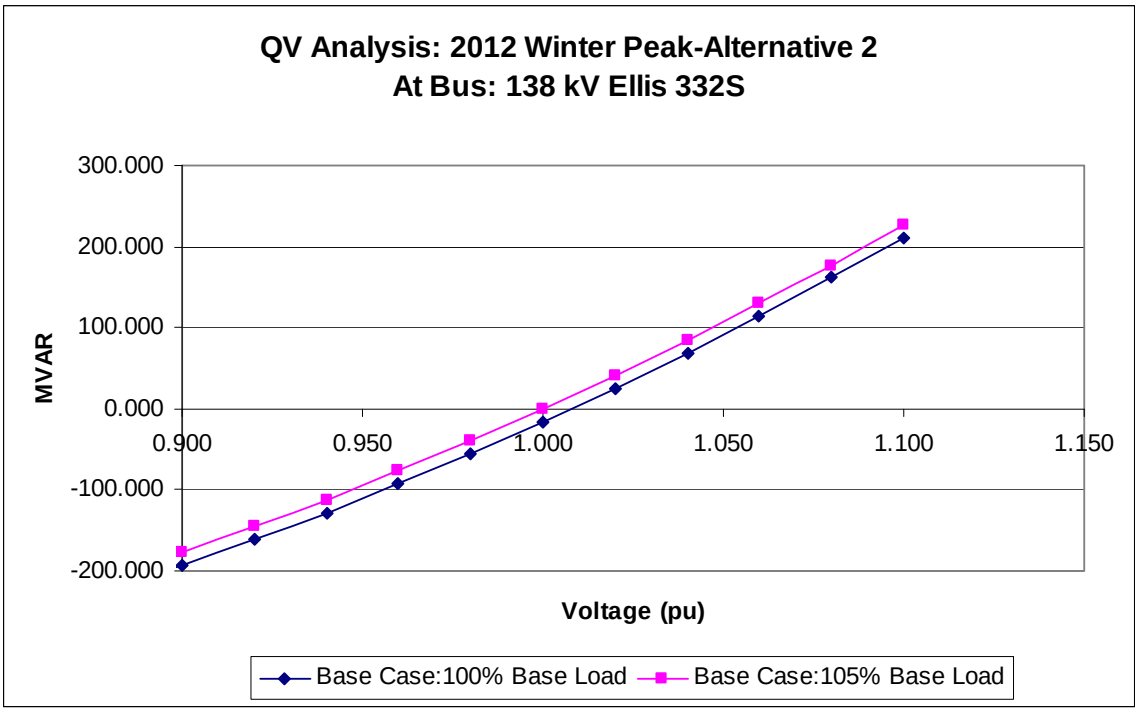

QV Analysis: 2012 Winter Peak-Alternative 2
At Bus: 138 kV Joffre 535S
300.000
200.000
100.000
0.000
-100.000
-200.000
-300.000
MVAR
0.900
0.950
1.000
1.050
1.100
1.150
Voltage (pu)
Contingency: 914L Gaetz87S to Red Deer 63S: 100% Base Load
Contingency: 914L Gaetz87S to Red Deer 63S: 105% Base Load

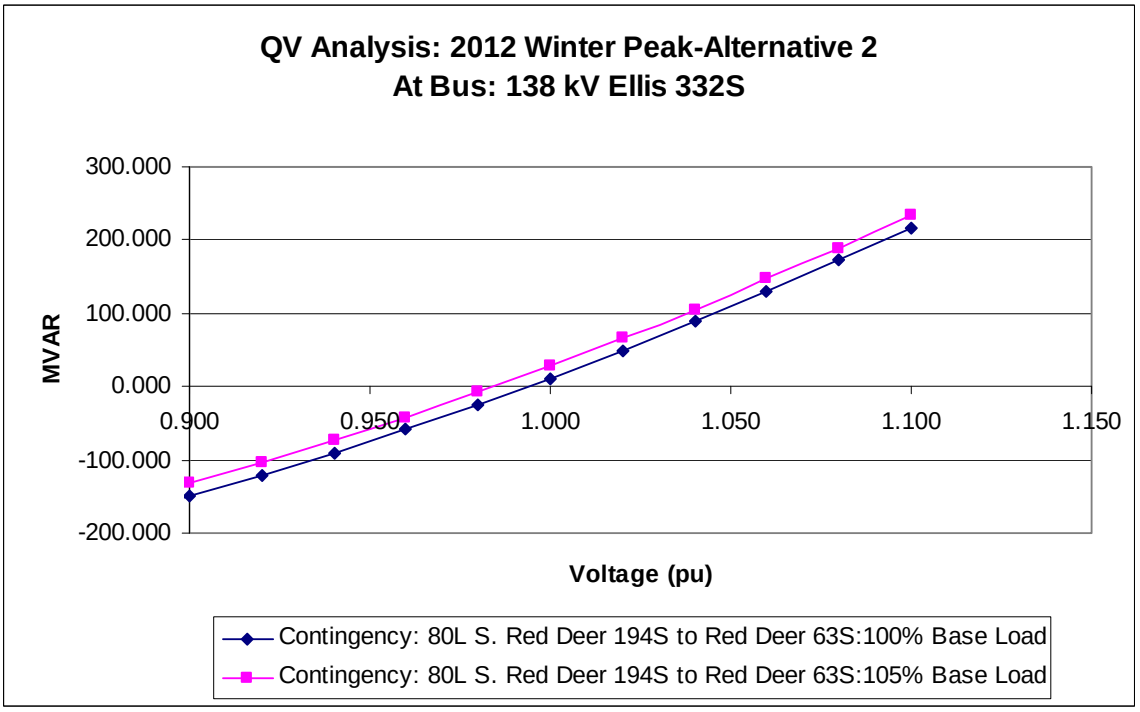

QV Analysis: 2012 Winter Peak-Alternative 2
At bus: 138 kV Joffre 535S
300.000
200.000
100.000
0.000
-100.000
-200.000
-300.000
MVAR
0.900
0.950
1.000
1.050
1.100
1.150
Voltage (pu)
Contingency: Transforner 240/138 kV at Gaetz 87S: 100% Base Load
Contingency: Transforner 240/138 kV at Gaetz 87S: 105% Base Load

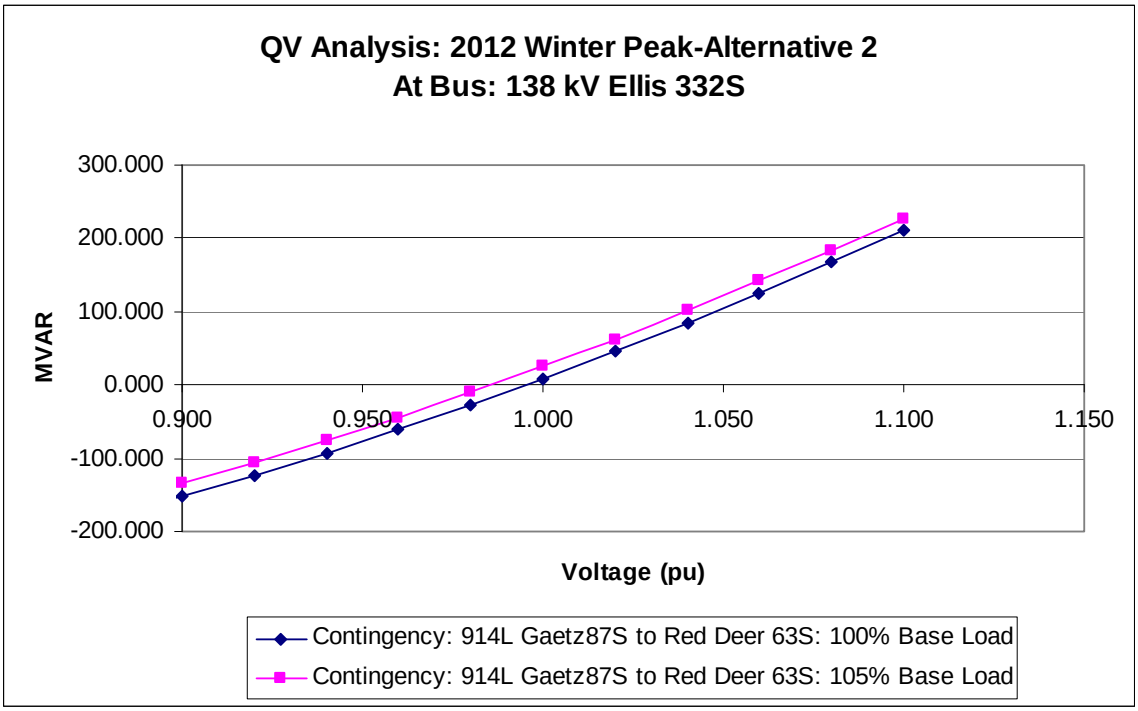
2012 Winter Peak- Alternative 2 (Nova Off)
(138 kV Bus at Ellis 332S)

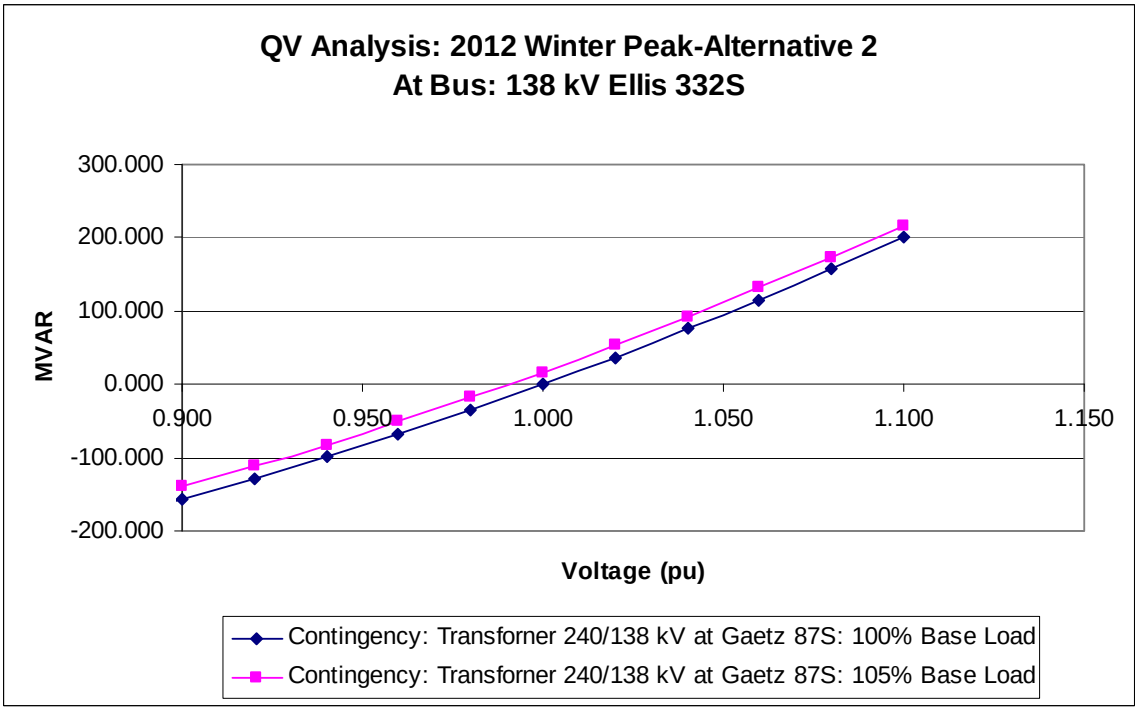
Bus 388: Ellis 332S 138 kV					
Figure No.		Most Critical Contingency	Maximum Reactive Margin (100% of base load)	Maximum Reactive Margin (105% of base load)	Compliance with WECC voltage stability criteria
Load Adequacy					
Fig 2012-QV-6		Base Case	-128	-112	Yes
	1	80L S. Red Deer 194S to Red Deer 63S	-91	-74	Yes
	2	914L Gaetz87S to Red Deer 63S	-93	-76	Yes
	3	Transformer 240/138 kV at Gaetz 87S	-100	-83	Yes

Fig 2012-QV-6: Load Adequacy with Nova OFF





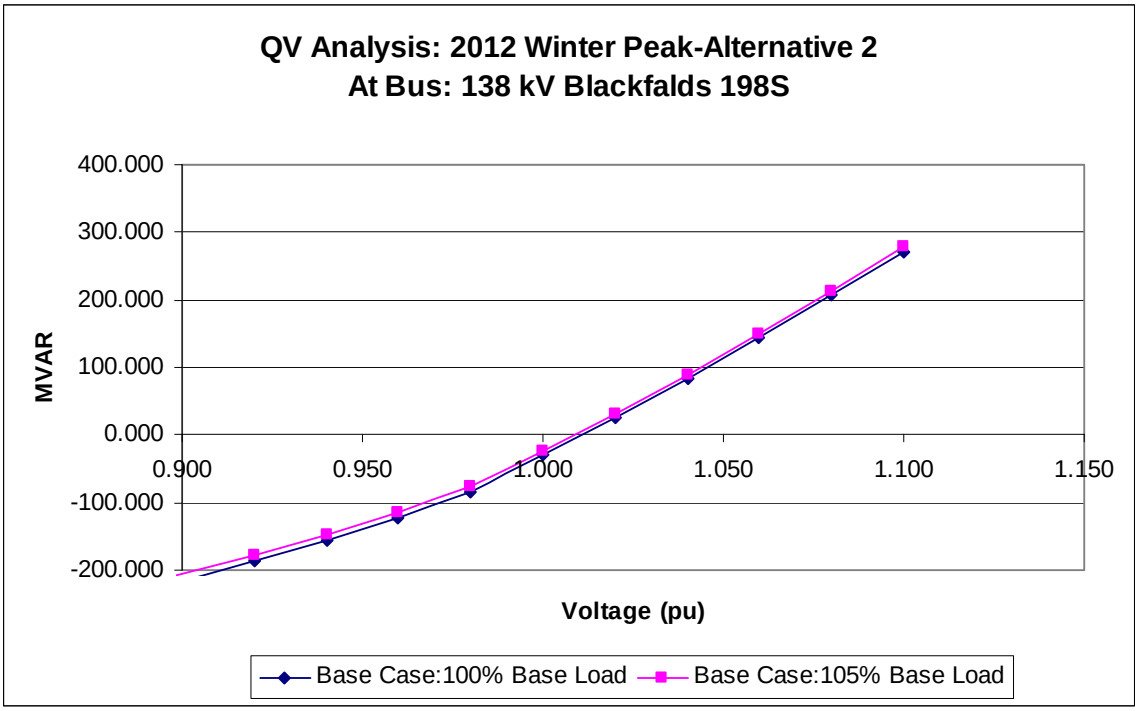

QV Analysis: 2012 Winter Peak-Alternative 2
At Bus: 138 kV Ellis 332S
300.000
200.000
100.000
0.000
-100.000
-200.000
MVAR
0.900
0.950
1.000
1.050
1.100
1.150
Voltage (pu)
Contingency: 914L Gaetz87S to Red Deer 63S: 100% Base Load
Contingency: 914L Gaetz87S to Red Deer 63S: 105% Base Load

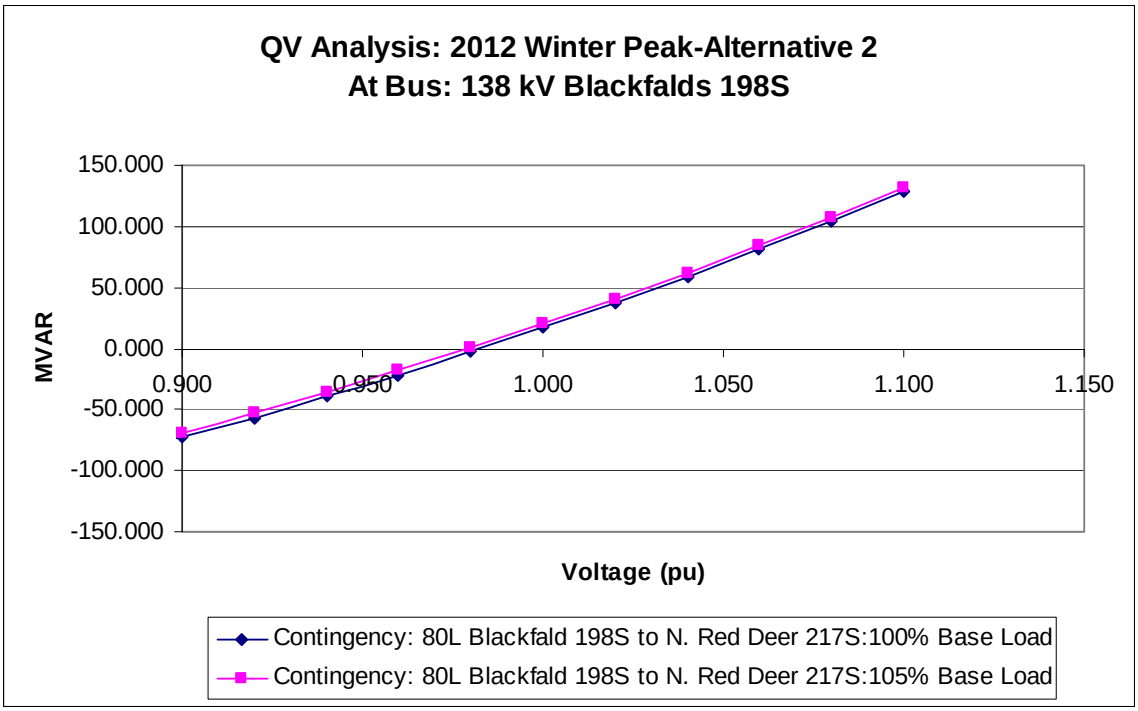

QV Analysis: 2012 Winter Peak-Alternative 2
At Bus: 138 kV Ellis 332S
300.000
200.000
100.000
0.000
-100.000
-200.000
MVAR
0.900
0.950
1.000
1.050
1.100
1.150
Voltage (pu)
Contingency: Transforner 240/138 kV at Gaetz 87S: 100% Base Load
Contingency: Transforner 240/138 kV at Gaetz 87S: 105% Base Load

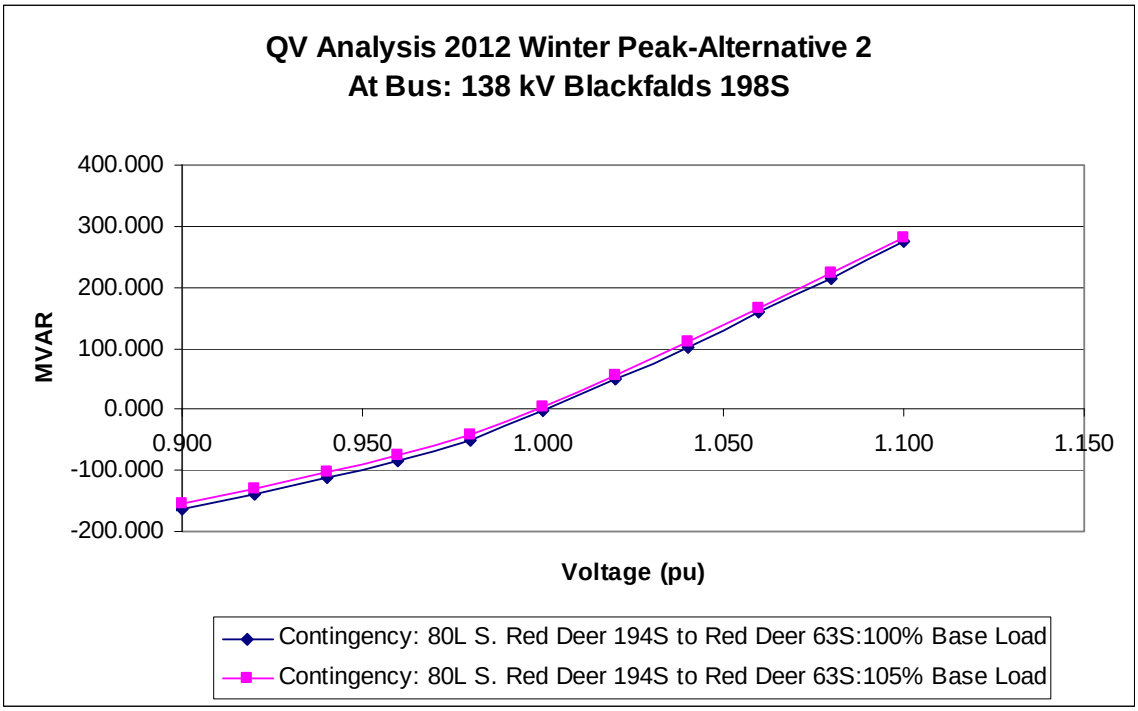
2012 Winter Peak- Alternative 2 (Nova Off)
(138 kV Bus at Blackfalds 198S)

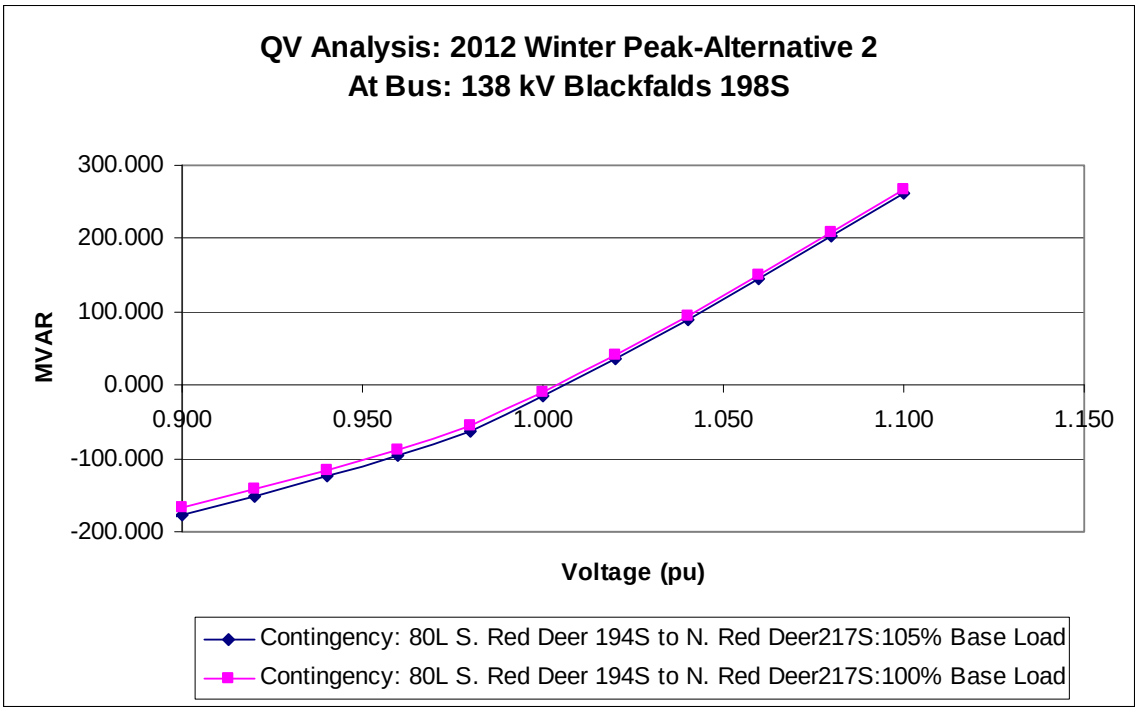
Bus 113: Blackfalds 198S 138 kV					
Figure No.		Most Critical Contingency	Maximum Reactive Margin (100% of base load)	Maximum Reactive Margin (105% of base load)	Compliance with WECC voltage stability criteria
Load Adequacy					
Fig 2012-QV-7		Base Case	-156	-147	Yes
	1	80L Blackfalds 198S to N. Red Deer 217S	-39	-36	Yes
	2	80L S. Red Deer 194S to Red Deer 63S	-112	-102	Yes
	3	80L S. Red Deer 194S to N. Red Deer217S	-124	-116	Yes

Fig 2012-QV-7: Load Adequacy with Nova OFF





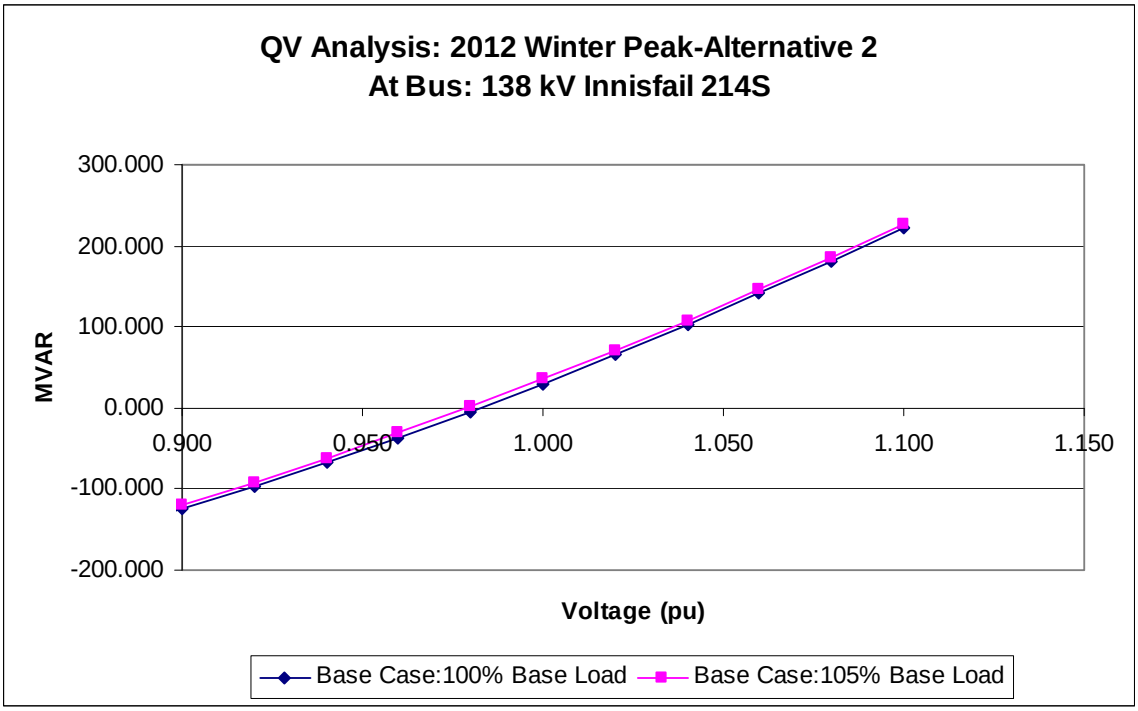

QV Analysis 2012 Winter Peak-Alternative 2
At Bus: 138 kV Blackfalds 198S
400.000
300.000
200.000
100.000
0.000
-100.000
-200.000
MVAR
0.900
0.950
1.000
1.050
1.100
1.150
Voltage (pu)
Contingency: 80L S. Red Deer 194S to Red Deer 63S:100% Base Load
Contingency: 80L S. Red Deer 194S to Red Deer 63S:105% Base Load

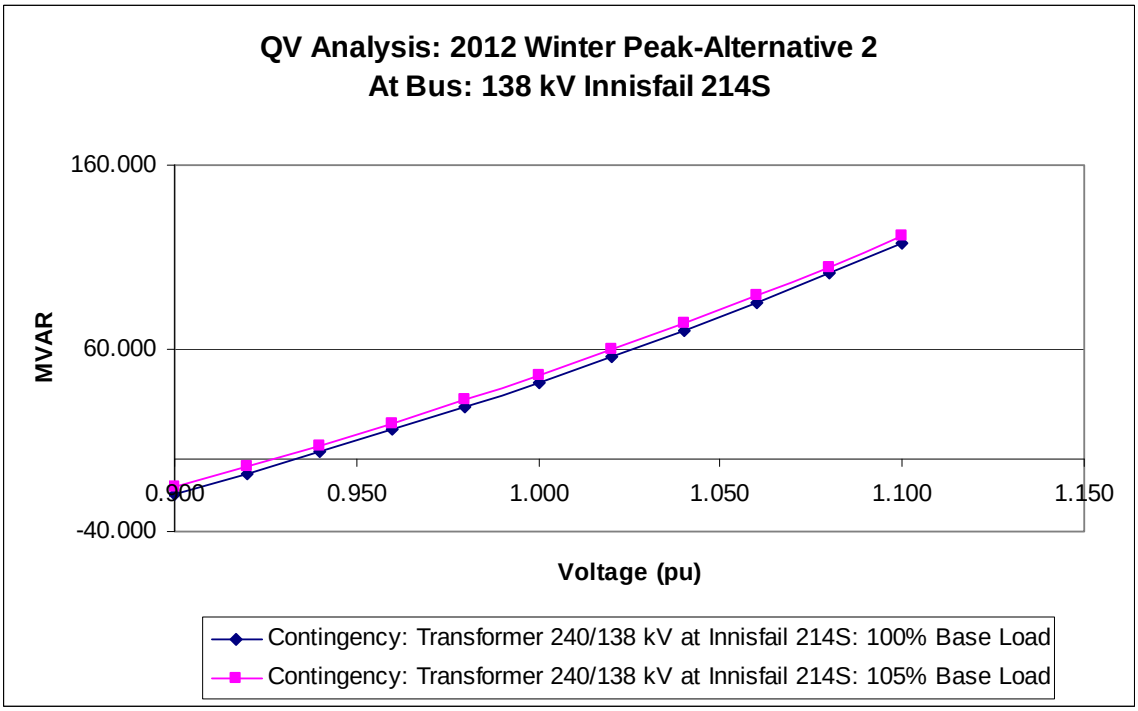

QV Analysis: 2012 Winter Peak-Alternative 2
At Bus: 138 kV Blackfalds 198S
300.000
200.000
100.000
0.000
-100.000
-200.000
MVAR
0.900
0.950
1.000
1.050
1.100
1.150
Voltage (pu)
Contingency: 80L S. Red Deer 194S to N. Red Deer217S:105% Base Load
Contingency: 80L S. Red Deer 194S to N. Red Deer217S:100% Base Load

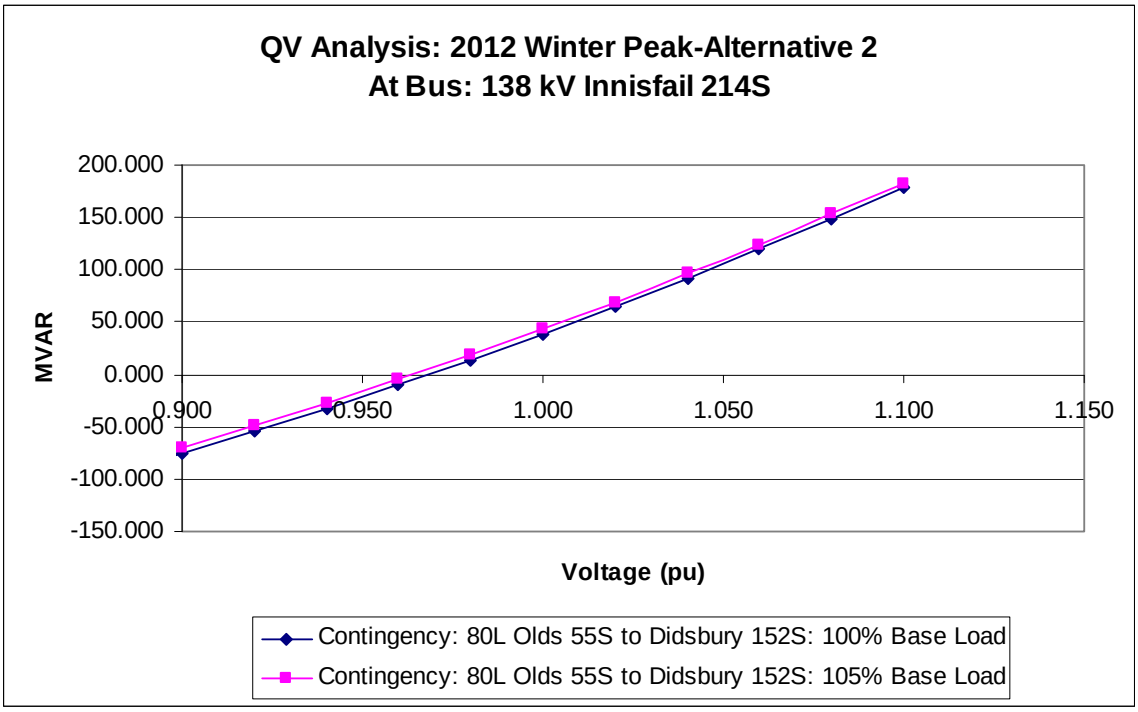
2012 Winter Peak- Alternative 2 (Nova Off)
(138 kV Bus at Innisfail 214S)

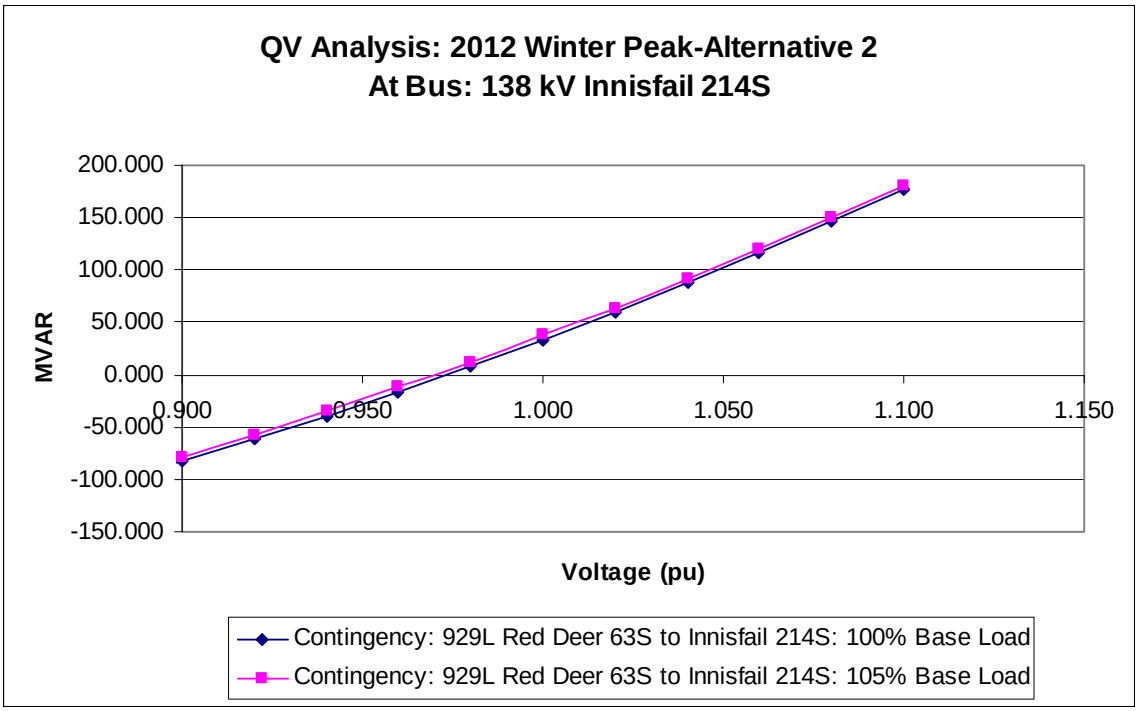
Bus 120: Innisfail 214S 138 kV					
Figure No.	Most Critical Contingency		Maximum Reactive Margin (100% of base load)	Maximum Reactive Margin (105% of base load)	Compliance with WECC voltage stability criteria
Load Adequacy					
Fig 2012-QV-8		Base Case	-68	-62	Yes
	1	Transformer 240/138 kV at Innisfail 214S	3	7	No
	2	80L Olds 55S to Didsbury 152S	-33	-28	Yes
	3	929L Red Deer 63S to Innisfail 214S	-39	-35	Yes

Fig 2012-QV-8: Load Adequacy with Nova OFF






QV Analysis: 2012 Winter Peak-Alternative 2
At Bus: 138 kV Innisfail 214S
MVAR
200.000
150.000
100.000
50.000
0.000
-50.000
-100.000
-150.000
0.900
0.950
1.000
1.050
1.100
1.150
Voltage (pu)
Contingency: 80L Olds 55S to Didsbury 152S: 100% Base Load
Contingency: 80L Olds 55S to Didsbury 152S: 105% Base Load


QV Analysis: 2012 Winter Peak-Alternative 2
At Bus: 138 kV Innisfail 214S
MVAR
200.000
150.000
100.000
50.000
0.000
-50.000
-100.000
-150.000
0.900
0.950
1.000
1.050
1.100
1.150
Voltage (pu)
Contingency: 929L Red Deer 63S to Innisfail 214S: 100% Base Load
Contingency: 929L Red Deer 63S to Innisfail 214S: 105% Base Load

D4 - Transfer Analysis

Alternative 1

(Load Adequacy)

PTI INTERACTIVE POWER SYSTEM SIMULATOR--PSS/E TUE, MAR 08 2011 9:57
RED DEER AND DIDSBUSR AREA STUDY PAGE 1
2012 WINTER PEAK BASE CASE REVISION 6.5
*** TLTG EXPORT LIMIT OUTPUT FOR BASE CASE ***

DISTRIBUTION FACTOR FILE: C:\Documents and Settings\zheny2\My Documents\AESO-RED DEER\New Final Case 01-03-2011\2012\TLTG(Transfer Capability Study
SUBSYSTEM DESCRIPTION FILE: C:\Documents and Settings\zheny2\My Documents\AESO-RED DEER\New Final Case 01-03-2011\2012\TLTG(Transfer Capability Study
MONITORED ELEMENT FILE: C:\Documents and Settings\zheny2\My Documents\AESO-RED DEER\New Final Case 01-03-2011\2012\TLTG(Transfer Capability Study
CONTINGENCY DESCRIPTION FILE: C:\Documents and Settings\zheny2\My Documents\AESO-RED DEER\New Final Case 01-03-2011\2012\TLTG(Transfer Capability Study

	PRE-SHIFT	DELTA	POST-SHIFT
STUDY SYSTEM MW GENERATION:	8015.3	100.0	8115.3
OPPOSING SYSTEM MW GENERATION:	230.0	-100.0	130.0
STUDY SYSTEM NET INTERCHANGE:	1229.1	100.0	1329.1

<---------- STUDY SYSTEM ---------->					<---------- OPPOSING SYSTEM ---------->				
		<---- GENERATOR MW ---->					<---- GENERATOR MW ---->		
BUS#	X-- NAME	--X BASKV	BASE	SHIFT	CHANGE	BUS#	X-- NAME	--X BASKV	BASE	SHIFT	CHANGE
14	WESGEN 9	13.800	15.3	15.5	0.2	3187	CECST	13.800	125.0	77.2	-47.8
129	SUND#1GN	18.000	152.0	155.1	3.1	3290	BALZ 3	13.800	40.0	18.4	-21.6
130	SUND#3GN	20.000	420.0	424.1	4.1	4290	BALZ 1&2	13.800	65.0	34.5	-30.5
338	SUND#2GN	18.000	302.0	305.1	3.1						
342	SUND#4GN	20.000	420.0	424.1	4.1						
345	SUND#5GN	20.000	380.0	384.1	4.1						
350	SUND#6GN	20.000	429.0	433.4	4.4						
408	WHITEGE9	12.500	25.0	25.3	0.3						
422	KEEP#1GN	19.000	448.0	452.1	4.1						
424	KEEP#2GN	19.000	409.0	413.1	4.1						
454	DOW GEN1	14.400	80.0	81.0	1.0						
490	GENES 39	22.000	450.0	455.4	5.4						
491	GENES 19	20.500	310.0	314.5	4.5						
492	GENES 29	20.500	380.0	384.5	4.5						
627	AIR LIQC	13.800	84.0	84.9	0.9						
1015	FORT NE9	13.800	40.0	40.5	0.5						
1035	RBW 4	13.800	20.0	20.5	0.5						
1089	DIASHOW9	13.800	30.0	30.4	0.4						
1141	P&G 9	13.800	32.0	32.3	0.3						
1148	HR MILN9	15.000	140.0	141.5	1.5						
1171	VALLEYVI	13.800	25.0	25.5	0.5						
1173	VALLEYG2	13.800	20.0	20.5	0.5						

2030	DOWSTG 9	14.700	45.0	45.5	0.5
2031	DOWGTG 9	13.800	80.0	80.9	0.9
2248	MAHKE-G2	13.800	85.0	86.0	1.0
2405	CONKLIN2	13.800	80.0	80.9	0.9
3050	REDW GT	13.800	40.0	40.7	0.7
3248	MAHKE-G1	13.800	84.0	85.0	1.0
3301	FCG1	13.800	40.0	40.4	0.4
3302	FCG2	13.800	40.0	40.4	0.4
4185	SCOTF GT	13.800	82.0	83.0	1.0
7185	SCOTF ST	13.800	90.0	91.0	1.0
10236	MUSKEG4	13.800	76.5	77.5	1.0
12236	MUSKEG6	13.800	85.0	86.0	1.0
12249	LNGLKCG1	13.800	100.0	101.0	1.0
13249	LNGLKCG2	13.800	100.0	101.0	1.0
16218	SUNC_G19	13.800	34.0	34.4	0.4
16219	MIL_G3	13.800	50.0	50.7	0.7
16233	SYNC_UE5	13.800	71.2	72.1	0.9
17101	GPEP39	13.800	25.0	25.3	0.3
17209	SYNC_G39	13.800	18.4	18.7	0.3
17210	SYNC_G49	13.800	36.7	37.3	0.6
17233	SYNC_UE4	13.800	12.6	12.9	0.3
18142	BEARCK2	13.800	30.0	30.6	0.6
18206	AUR_GTG2	13.800	74.5	75.4	0.9
18207	AUR_GTG1	13.800	69.8	70.8	0.9
18208	MIL_G5 9	13.800	80.0	81.3	1.3
18209	SYNC_G29	13.800	37.7	38.3	0.6
18210	SYNC_G59	13.800	18.4	18.7	0.3
18218	SUNC G29	13.800	13.1	13.4	0.4
18223	TAR-GN-2	13.800	70.0	70.8	0.8
18264	HORUP7	13.800	77.7	78.6	0.9
18274	MACKAY2	18.000	160.0	161.7	1.7
18302	PRIM GEN	13.800	80.0	81.0	1.0
19142	BEARCK3	13.800	30.0	30.4	0.4
19208	MIL_G6 9	13.800	90.0	91.3	1.3
19209	SYNC_G19	13.800	37.7	38.3	0.6
19210	SYNC_G69	13.800	27.9	28.6	0.7
19264	HORUP6	13.800	14.6	14.7	0.2
19268	HORUP10	13.800	80.0	80.9	0.9
90101	CBAR GT1	13.800	20.0	20.5	0.5
90102	CBAR GT2	13.800	50.0	51.1	1.1
90103	CBAR GT3	13.800	50.0	51.1	1.1
90351	KEEUN3	22.000	450.0	455.4	5.4
90517	SH_UG32	13.800	18.0	18.2	0.2
91521	BIOMASS1	12.500	33.0	33.3	0.3
91522	BIOMASS2	12.500	33.0	33.3	0.3
96083	SHELLCM2	18.000	120.0	122.3	2.3
96118	POPLAR05	13.800	85.0	86.0	1.0
97247	SURMONT 13	13.800	73.8	74.8	1.0

97275	G-L_CG2	13.800	163.6	165.5	1.9
97276	G-L_CG3	13.800	161.6	163.6	1.9
97277	G-L_CG4	13.800	80.0	81.0	1.0
97361	DEER CK 13.8	13.800	81.0	82.0	1.0

LOADINGS AT OR ABOVE 100.0 %
OF RATING ARE MARKED WITH '*'

<------- F R O M ------->			<--------- T O --------->			CKT	INCR. TRANS CAPAB	<---------- BASE CASE ----------> RATING B	PRE-SHIFT MW	POST-SHIFT MW	LIMIT CASE MW	DISTR. FACTOR
155	BENALTO4	240.00	9000	DIDSBURY_NEW	240.00	18	1286.5	499	238.1	258.4	499.0*	0.20278
9000	DIDSBURY_NEW	240.00	187	BEDDING1	240.00	18	1445.2	499	158.2	181.8	461.6	0.23583
123	DIDSBURY	138.00	982	MADDEN T	138.00	80	1540.4	143	91.1	94.5	134.5	0.03366
128	ELLERSLI	240.00	81	BIGSTON4	240.00	14	1721.8	499	243.6	258.4	434.4	0.14835
155	BENALTO4	240.00	135	SUNDANC4	240.00	26	1731.4	499	-240.9	-255.8	-432.7	-0.14909
135	SUNDANC4	240.00	155	BENALTO4	240.00	26	1731.4	499	240.9	255.8	432.7	0.14909
135	SUNDANC4	240.00	155	BENALTO4	240.00	22	1738.3	499	240.3	255.2	431.8	0.14883
155	BENALTO4	240.00	135	SUNDANC4	240.00	22	1738.3	499	-240.3	-255.2	-431.8	-0.14883
152	RED DEE4	240.00	988	CROSSF T	240.00	01	2249.0	494	170.3	184.7	355.5	0.14394
152	RED DEE4	240.00	128	ELLERSLI	240.00	10	2302.3	499	-154.9	-169.9	-347.2	-0.14945
128	ELLERSLI	240.00	152	RED DEE4	240.00	10	2302.3	499	154.9	169.9	347.2	0.14945
155	BENALTO4	240.00	161	SARCEE 4	240.00	06	2341.2	499	207.2	219.6	367.5	0.12465
155	BENALTO4	240.00	161	SARCEE 4	240.00	28	2347.5	499	206.4	218.9	366.8	0.12464
101	COOKING7	138.00	65	BARDO 7	138.00	74	2401.7	90	40.0	42.1	66.8	0.02081
81	BIGSTON4	240.00	147	GAETZ 4	240.00	14	2499.7	499	117.6	132.8	313.9	0.15259
766	VER_TAP	138.00	79	BUFFALO7	138.00	29	2533.5	50	-43.4	-39.7	3.9	0.03680
20	EDSON 7	138.00	39	CYNTHIA7	138.00	02	2663.3	90	18.2	20.9	52.9	0.02694
420	KEEPHIL4	240.00	155	BENALTO4	240.00	90	2736.9	499	185.7	197.2	333.0	0.11446
155	BENALTO4	240.00	420	KEEPHIL4	240.00	90	2736.9	499	-185.7	-197.2	-333.0	-0.11446
155	BENALTO4	240.00	420	KEEPHIL4	240.00	03	2774.9	499	-184.1	-195.5	-330.1	-0.11347
420	KEEPHIL4	240.00	155	BENALTO4	240.00	03	2774.9	499	184.1	195.5	330.1	0.11347
147	GAETZ 4	240.00	152	RED DEE4	240.00	14	3021.8	499	68.1	82.3	251.5	0.14261
152	RED DEE4	240.00	160	JANET 4	240.00	29	3035.7	499	142.2	153.9	293.4	0.11754
152	RED DEE4	240.00	160	JANET 4	240.00	25	3037.1	499	142.1	153.9	293.3	0.11751
107	SUNDRE 7	138.00	370	SHELL C7	138.00	19	3109.1	148	-64.2	-66.9	-98.9	-0.02694
121	OLDS 7	138.00	123	DIDSBURY	138.00	80	3188.0	143	16.2	20.2	67.4	0.03977
25	ENTWIST8	69.000	28	MOON LA8	69.000	29	3409.5	36	12.9	13.6	21.6	0.00676
117	RED DE A	138.00	118	RED DE B	138.00	1	3539.6	148	23.4	26.9	68.7	0.03522
91	NISKU 7	138.00	93	WETASKI7	138.00	58	3739.0	96	-3.5	-0.8	30.7	0.02661
107	SUNDRE 7	138.00	883	EAGLE TP	138.00	19	4237.3	148	33.8	36.5	68.5	0.02694
124	HARMATT7	138.00	957	166L JNC	138.00	66	4295.6	120	4.3	7.0	38.9	0.02694
124	HARMATT7	138.00	883	EAGLE TP	138.00	19	4489.5	143	-22.0	-24.7	-56.7	-0.02694
123	DIDSBURY	138.00	957	166L JNC	138.00	66	4540.8	122	0.3	-2.3	-34.3	-0.02694
68	N HOLDE7	138.00	65	BARDO 7	138.00	74	4703.3	90	-25.1	-26.4	-42.8	-0.01381
76	IPPL ST7	138.00	14001	HEISLERTAP	138.00	1	5570.2	114	-52.7	-49.7	-14.2	0.02992
152	RED DEE4	240.00	155	BENALTO4	240.00	00	5695.8	705	-211.5	-220.1	-323.0	-0.08665
118	RED DE B	138.00	120	INNISFA7	138.00	80	5743.3	314	85.6	89.5	136.7	0.03977
120	INNISFA7	138.00	121	OLDS 7	138.00	80	6613.8	314	50.9	54.9	102.1	0.03977
93	WETASKI7	138.00	95	PONOKA 7	138.00	16	6751.7	314	15.8	20.2	72.6	0.04417

862	PV-TAP7	138.00	362	EDGERTO7	138.00	49	7045.2	96	-36.3	-34.4	-12.1	0.01878
104	STRACHA7	138.00	890	AMOCO TP	138.00	19	7144.1	143	82.2	83.1	93.2	0.00851
155	BENALTO4	240.00	995	W.GRN TP	240.00	95	7321.5	499	-188.5	-192.7	-243.0	-0.04241
95	PONOKA 7	138.00	116	W LACOMB	138.00	80	7519.5	314	-18.2	-13.7	38.7	0.04417
374	BIGSTON7	138.00	804	803/804X	138.00	04	7716.0	169	87.5	88.6	101.1	0.01056
93	WETASKI7	138.00	803	803/804N	138.00	04	7770.8	169	-86.9	-88.0	-100.5	-0.01056
99	BENALTO7	138.00	155	BENALTO4	240.00	T1	8271.7	200	-77.8	-79.2	-96.8	-0.01478
99	BENALTO7	138.00	155	BENALTO4	240.00	T2	8271.7	200	-77.8	-79.2	-96.8	-0.01478
123	DIDSBURY	138.00	9000	DIDSBURY_NEW	240.00	T1	8329.8	200	-75.3	-72.0	-32.8	0.03305
96	DEVON 7	138.00	365	BUFORD 7	138.00	38	8423.3	143	18.3	19.8	37.4	0.01480
105	PIGEON 7	138.00	374	BIGSTON7	138.00	05	8597.9	90	-37.3	-35.8	-18.2	0.01480
99	BENALTO7	138.00	882	SCHRA TP	138.00	48	8984.1	215	49.4	51.2	73.1	0.01844
115	S RED DE	138.00	119	N RED D7	138.00	80	9004.3	459	-66.2	-70.5	-122.3	-0.04363
370	SHELL C7	138.00	882	SCHRA TP	138.00	48	9853.3	215	-33.4	-35.2	-57.1	-0.01844
356	BON GLE7	138.00	365	BUFORD 7	138.00	38	10129.3	148	1.9	0.5	-17.1	-0.01480
115	S RED DE	138.00	117	RED DE A	138.00	80	10410.1	459	4.8	9.2	61.0	0.04363
70	CAMROSE7	138.00	946	KING TAP	138.00	30	10754.2	90	-14.7	-15.4	-23.7	-0.00700
65	BARDO 7	138.00	946	KING TAP	138.00	30	10861.6	91	15.0	15.7	24.0	0.00700
881	RAVEN TP	138.00	890	AMOCO TP	138.00	19	10899.0	148	-55.3	-56.1	-66.2	-0.00851
105	PIGEON 7	138.00	356	BON GLE7	138.00	37	11228.9	146	20.2	18.7	1.2	-0.01480
370	SHELL C7	138.00	881	RAVEN TP	138.00	19	11443.4	148	-50.6	-51.5	-61.6	-0.00851
113	BLACKFA7	138.00	116	W LACOMB	138.00	80	11917.6	314	-3.5	-6.1	-37.0	-0.02605
113	BLACKFA7	138.00	119	N RED D7	138.00	80	13447.5	314	-36.4	-33.8	-2.8	0.02605
99	BENALTO7	138.00	100	ROCKY M7	138.00	17	14571.3	135	11.0	11.9	22.0	0.00851
70	CAMROSE7	138.00	94	ERVICK 7	138.00	29	15123.3	90	-15.9	-15.2	-6.9	0.00700
119	N RED D7	138.00	148	GAETZ 7	138.00	68	15710.8	220	-82.0	-82.8	-93.3	-0.00879
119	N RED D7	138.00	148	GAETZ 7	138.00	78	15710.8	220	-82.0	-82.8	-93.3	-0.00879
384	UC PRENT	138.00	388	ELLIS 7	138.00	74	15946.3	190	-16.6	-17.7	-30.6	-0.01087
423	KEEPHIL7	138.00	49	KEYSTON7	138.00	34	16076.0	191	51.0	51.9	62.2	0.00871
	INTERFACE SOK						16737.2	2150	-408.3	-418.7	-542.1	-0.10406
94	ERVICK 7	138.00	899	TRUE W T	138.00	29	17267.2	90	-30.9	-30.2	-21.9	0.00700
93	WETASKI7	138.00	899	TRUE W T	138.00	29	18163.7	96	31.2	30.5	22.1	-0.00700
114	LACOMBE7	138.00	116	W LACOMB	138.00	80	18528.4	314	21.7	19.9	-1.6	-0.01812
100	ROCKY M7	138.00	104	STRACHA7	138.00	70	18940.9	143	-18.2	-17.3	-7.2	0.00851
114	LACOMBE7	138.00	388	ELLIS 7	138.00	1	19261.0	314	-35.0	-33.2	-11.7	0.01812
383	JOFFRE 7	138.00	664	PIPER CR	138.00	55	23110.9	314	70.6	71.6	84.1	0.01053
803	803/804N	138.00	804	803/804X	138.00	04	23742.5	169	-43.6	-44.2	-50.4	-0.00528
803	803/804N	138.00	804	803/804X	138.00	03	23742.5	169	-43.6	-44.2	-50.4	-0.00528
118	RED DE B	138.00	152	RED DEE4	240.00	T2	27027.5	200	-31.7	-30.9	-20.7	0.00857
117	RED DE A	138.00	152	RED DEE4	240.00	T1	27476.6	200	-31.1	-30.3	-20.3	0.00841
118	RED DE B	138.00	664	PIPER CR	138.00	55	27822.1	314	-21.0	-22.0	-34.5	-0.01053
147	GAETZ 4	240.00	148	GAETZ 7	138.00	T2	34963.8	200	24.2	24.7	30.6	0.00503
147	GAETZ 4	240.00	148	GAETZ 7	138.00	T1	35529.7	200	23.9	24.4	30.2	0.00496
388	ELLIS 7	138.00	975	COMINTAP	138.00	84	37642.3	190	-82.8	-82.1	-73.5	0.00725
152	RED DEE4	240.00	1422	NEVIS 4	240.00	12	38110.4	549	-87.5	-85.8	-66.0	0.01670
383	JOFFRE 7	138.00	975	COMINTAP	138.00	84	38450.6	190	88.7	88.0	79.4	-0.00725
148	GAETZ 7	138.00	384	UC PRENT	138.00	59	40626.9	190	7.7	7.2	1.4	-0.00487
383	JOFFRE 7	138.00	384	UC PRENT	138.00	75	45013.0	190	80.4	79.8	72.6	-0.00601

81	BIGSTON4	240.00	374	BIGSTON7	138.00	T1	76735.1	200	125.7	125.3	120.2	-0.00424
148	GAETZ 7	138.00	383	JOFFRE 7	138.00	56	94026.8	190	-62.1	-62.2	-63.8	-0.00136
148	GAETZ 7	138.00	383	JOFFRE 7	138.00	93	94073.9	190	-62.0	-62.2	-63.8	-0.00136
95	PONOKA 7	138.00	192	NELSON L	138.00	1	>99999.	96	8.5	8.5	8.5	0.00000
97	ECKVILL7	138.00	956	758L JCT	138.00	58	>99999.	90	-19.1	-19.1	-19.1	0.00000
98	RIMBEY 7	138.00	956	758L JCT	138.00	57	>99999.	90	-26.5	-26.5	-26.5	0.00000
99	BENALTO7	138.00	780	SYLV_138	138.00	1	>99999.	314	35.2	35.5	38.6	0.00261
99	BENALTO7	138.00	956	758L JCT	138.00	57	>99999.	90	46.1	46.1	46.1	0.00000
118	RED DE B	138.00	780	SYLV_138	138.00	1	>99999.	314	-9.5	-9.8	-12.9	-0.00260
122	MADDEN 7	138.00	982	MADDEN T	138.00	89	>99999.	79	-16.2	-16.2	-16.2	0.00000
124	HARMATT7	138.00	97619	HGF1	138.00	01	>99999.	215	0.6	0.6	0.6	0.00000
126	SHELL H7	138.00	957	166L JNC	138.00	66	>99999.	90	-4.6	-4.6	-4.6	0.00000
142	KINGMAN7	138.00	946	KING TAP	138.00	32	>99999.	91	0.0	0.0	0.0	0.00000
152	RED DEE4	240.00	93700	RED DEER LUM	25.000	T1	>99999.	240	0.0	0.0	0.0	0.00000
205	AMOCO R7	138.00	257	LIMESTO7	138.00	64	>99999.	148	19.4	19.4	19.4	0.00000
205	AMOCO R7	138.00	890	AMOCO TP	138.00	19	>99999.	148	-24.5	-24.5	-24.5	0.00000
354	NOVA C17	138.00	383	JOFFRE 7	138.00	1	>99999.	476	163.6	163.6	163.6	0.00000
355	NOVA C27	138.00	383	JOFFRE 7	138.00	2	>99999.	476	285.5	285.5	285.5	0.00000
382	SHELL RA	138.00	881	RAVEN TP	138.00	19	>99999.	148	-4.5	-4.5	-4.5	0.00000
383	JOFFRE 7	138.00	398	BROOKFLD	138.00	89	>99999.	152	5.0	5.0	5.0	0.00000
385	SHELL SC	138.00	882	SCHRA TP	138.00	48	>99999.	148	-15.2	-15.2	-15.2	0.00000
386	SHELL EA	138.00	883	EAGLE TP	138.00	19	>99999.	148	-11.5	-11.5	-11.5	0.00000
387	COMINCO7	138.00	975	COMINTAP	138.00	84	>99999.	135	-5.2	-5.2	-5.2	0.00000
440	TRUE WEL	138.00	899	TRUE W T	138.00	29	>99999.	132	0.0	0.0	0.0	0.00000

*** TLTG EXPORT LIMIT OUTPUT FOR SUBSYSTEM N-OF-SOK ***

SOLUTION OF 95 SYSTEM CONDITIONS ATTEMPTED 0 INSOLUBLE SYSTEM CONDITIONS

INCR. TRANS CAPAB	LIMITING ELEMENT						DISTR. FACTOR	PRE-SHIFT MW	RATING BAS/CNT B/B	CONTINGENCY DESCRIPTION
370.5	123 DIDSBURY	138.00	982 MADDEN T	138.00	80		0.07149	116.5	143.0	
	[DIDSBURY_NEW	240.00] TO	187 [BEDDING1	240.00] CKT	18					OPEN 9000
951.7	123 DIDSBURY	138.00	982 MADDEN T	138.00	80		0.04125	103.7	143.0	OPEN 155 [BENALTO4 240.00] TO 161 [SARCEE 4 240.00] CKT 06
952.9	123 DIDSBURY	138.00	982 MADDEN T	138.00	80		0.04125	103.7	143.0	OPEN 155 [BENALTO4 240.00] TO 161 [SARCEE 4 240.00] CKT 28
960.0	155 BENALTO4	240.00	135 SUNDANC4	240.00	26		-0.19377	-313.0	499.0	OPEN 155 [BENALTO4 240.00] TO 135 [SUNDANC4 240.00] CKT 22

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  960.0    135 SUNDANC4    240.00    155 BENALTO4    240.00 26  0.19377   313.0  499.0 OPEN 155 [BENALTO4
240.00] TO 135 [SUNDANC4    240.00] CKT 22
  963.7    155 BENALTO4    240.00    135 SUNDANC4    240.00 22 -0.19353  -312.5  499.0 OPEN 155 [BENALTO4
240.00] TO 135 [SUNDANC4    240.00] CKT 26
  963.7    135 SUNDANC4    240.00    155 BENALTO4    240.00 22  0.19353   312.5  499.0 OPEN 155 [BENALTO4
240.00] TO 135 [SUNDANC4    240.00] CKT 26
  976.2    155 BENALTO4    240.00   9000 DIDSBURY_NEW240.00 18  0.22662   277.8  499.0 OPEN 155 [BENALTO4
240.00] TO 161 [SARCEE 4    240.00] CKT 06
  976.9    155 BENALTO4    240.00   9000 DIDSBURY_NEW240.00 18  0.22662   277.6  499.0 OPEN 155 [BENALTO4
240.00] TO 161 [SARCEE 4    240.00] CKT 28
 1038.7    155 BENALTO4    240.00   9000 DIDSBURY_NEW240.00 18  0.21722   273.4  499.0 OPEN 152 [RED DEE4
240.00] TO 155 [BENALTO4    240.00] CKT 00
 1058.8    155 BENALTO4    240.00   9000 DIDSBURY_NEW240.00 18  0.21716   269.1  499.0 OPEN 118 [RED DE B
138.00] TO 120 [INNISFA7    138.00] CKT 80
 1071.8    107 SUNDRE 7    138.00    370 SHELL C7    138.00 19 -0.05138   -92.9  148.0
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                                                                                        OPEN 155 [BENALTO4
240.00] TO 9000 [DIDSBURY_NEW240.00] CKT 18
 1079.8    155 BENALTO4    240.00   9000 DIDSBURY_NEW240.00 18  0.22130   260.0  499.0 OPEN 152 [RED DEE4
240.00] TO 988 [CROSSF T    240.00] CKT 01
 1102.5    128 ELLERSLI    240.00     81 BIGSTON4    240.00 14  0.19129   288.1  499.0 OPEN 152 [RED DEE4
240.00] TO 128 [ELLERSLI    240.00] CKT 10
 1111.7    123 DIDSBURY    138.00    982 MADDEN T    138.00 80  0.03995    98.6  143.0 OPEN 152 [RED DEE4
240.00] TO 988 [CROSSF T    240.00] CKT 01
 1113.4    155 BENALTO4    240.00   9000 DIDSBURY_NEW240.00 18  0.21281   262.1  499.0 OPEN 107 [SUNDRE 7
138.00] TO 370 [SHELL C7    138.00] CKT 19
 1116.5    155 BENALTO4    240.00   9000 DIDSBURY_NEW240.00 18  0.21716   256.5  499.0 OPEN 120 [INNISFA7
138.00] TO 121 [OLDS   7    138.00] CKT 80
 1127.7    155 BENALTO4    240.00   9000 DIDSBURY_NEW240.00 18  0.21655   254.8  499.0 OPEN 152 [RED DEE4
240.00] TO 160 [JANET  4    240.00] CKT 29
 1127.8    155 BENALTO4    240.00   9000 DIDSBURY_NEW240.00 18  0.21655   254.8  499.0 OPEN 152 [RED DEE4
240.00] TO 160 [JANET  4    240.00] CKT 25
 1166.6*   155 BENALTO4    240.00   9000 DIDSBURY_NEW240.00 18  0.21281   250.7  499.0 OPEN 107 [SUNDRE 7
138.00] TO 883 [EAGLE TP    138.00] CKT 19
 1173.7   9000 DIDSBURY_NEW240.00    187 BEDDING1    240.00 18  0.25841   195.7  499.0 OPEN 155 [BENALTO4
240.00] TO 161 [SARCEE 4    240.00] CKT 06
 1174.2   9000 DIDSBURY_NEW240.00    187 BEDDING1    240.00 18  0.25841   195.6  499.0 OPEN 155 [BENALTO4
240.00] TO 161 [SARCEE 4    240.00] CKT 28
 1181.8    123 DIDSBURY    138.00    982 MADDEN T    138.00 80  0.03871    97.2  143.0 OPEN 152 [RED DEE4
240.00] TO 160 [JANET  4    240.00] CKT 29
 1181.9    123 DIDSBURY    138.00    982 MADDEN T    138.00 80  0.03871    97.2  143.0 OPEN 152 [RED DEE4
240.00] TO 160 [JANET  4    240.00] CKT 25
 1218.7   9000 DIDSBURY_NEW240.00    187 BEDDING1    240.00 18  0.25808   184.5  499.0 OPEN 152 [RED DEE4
240.00] TO 988 [CROSSF T    240.00] CKT 01
 1233.9   9000 DIDSBURY_NEW240.00    187 BEDDING1    240.00 18  0.24847   192.4  499.0 OPEN 123 [DIDSBURY
138.00] TO 982 [MADDEN T    138.00] CKT 80
 1237.5    121 OLDS   7    138.00    123 DIDSBURY    138.00 80  0.07194    54.0  143.0
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 1429.7    155 BENALTO4    240.00    135 SUNDANC4    240.00 26 -0.16383  -264.8  499.0 OPEN 155 [BENALTO4
240.00] TO 420 [KEEPHIL4    240.00] CKT 03
 1429.7    135 SUNDANC4    240.00    155 BENALTO4    240.00 26  0.16383   264.8  499.0 OPEN 155 [BENALTO4
240.00] TO 420 [KEEPHIL4    240.00] CKT 03
 1431.0    135 SUNDANC4    240.00    155 BENALTO4    240.00 26  0.15672   274.7  499.0 OPEN 155 [BENALTO4
240.00] TO 995 [W.GRN TP    240.00] CKT 95
 1431.0    155 BENALTO4    240.00    135 SUNDANC4    240.00 26 -0.15672  -274.7  499.0 OPEN 155 [BENALTO4
240.00] TO 995 [W.GRN TP    240.00] CKT 95
 1432.8    135 SUNDANC4    240.00    155 BENALTO4    240.00 22  0.16371   264.4  499.0 OPEN 155 [BENALTO4
240.00] TO 420 [KEEPHIL4    240.00] CKT 90
 1432.8    155 BENALTO4    240.00    135 SUNDANC4    240.00 22 -0.16371  -264.4  499.0 OPEN 155 [BENALTO4
240.00] TO 420 [KEEPHIL4    240.00] CKT 90
 1436.0    135 SUNDANC4    240.00    155 BENALTO4    240.00 22  0.16354   264.2  499.0 OPEN 155 [BENALTO4
240.00] TO 420 [KEEPHIL4    240.00] CKT 03
 1436.0    155 BENALTO4    240.00    135 SUNDANC4    240.00 22 -0.16354  -264.2  499.0 OPEN 155 [BENALTO4
240.00] TO 420 [KEEPHIL4    240.00] CKT 03
 1437.6    155 BENALTO4    240.00    135 SUNDANC4    240.00 22 -0.15644  -274.1  499.0 OPEN 155 [BENALTO4
240.00] TO 995 [W.GRN TP    240.00] CKT 95
 1437.6    135 SUNDANC4    240.00    155 BENALTO4    240.00 22  0.15644   274.1  499.0 OPEN 155 [BENALTO4
240.00] TO 995 [W.GRN TP    240.00] CKT 95
 1450.4    123 DIDSBURY    138.00    982 MADDEN T    138.00 80  0.03366    94.2  143.0 OPEN 205 [AMOCO R7
138.00] TO 890 [AMOCO TP    138.00] CKT 19
 1451.0*   123 DIDSBURY    138.00    982 MADDEN T    138.00 80  0.03366    94.2  143.0 OPEN 99 [BENALTO7
138.00] TO 956 [758L JCT    138.00] CKT 57
 1457.5    135 SUNDANC4    240.00    155 BENALTO4    240.00 26  0.16742   255.0  499.0 OPEN 147 [GAETZ  4
240.00] TO 81 [BIGSTON4     240.00] CKT 14
 1457.5    155 BENALTO4    240.00    135 SUNDANC4    240.00 26 -0.16742  -255.0  499.0 OPEN 147 [GAETZ  4
240.00] TO 81 [BIGSTON4     240.00] CKT 14
 1463.7    155 BENALTO4    240.00    135 SUNDANC4    240.00 22 -0.16713  -254.4  499.0 OPEN 147 [GAETZ  4
240.00] TO 81 [BIGSTON4     240.00] CKT 14
 1463.7    135 SUNDANC4    240.00    155 BENALTO4    240.00 22  0.16713   254.4  499.0 OPEN 147 [GAETZ  4
240.00] TO 81 [BIGSTON4     240.00] CKT 14
 1475.7    117 RED DE A    138.00    118 RED DE B    138.00 1   0.04410    82.9  148.0 OPEN 383 [JOFFRE 7
138.00] TO 664 [PIPER CR    138.00] CKT 55
 1479.7    117 RED DE A    138.00    118 RED DE B    138.00 1   0.07228    41.0  148.0 OPEN 147 [GAETZ  4
240.00] TO 152 [RED DEE4    240.00] CKT 14
 1519.3    155 BENALTO4    240.00    161 SARCEE 4    240.00 06  0.15691   260.6  499.0 OPEN 155 [BENALTO4
240.00] TO 161 [SARCEE 4    240.00] CKT 28
 1523.0    155 BENALTO4    240.00    161 SARCEE 4    240.00 28  0.15690   260.0  499.0 OPEN 155 [BENALTO4
240.00] TO 161 [SARCEE 4    240.00] CKT 06
 1535.3    128 ELLERSLI    240.00     81 BIGSTON4    240.00 14  0.15297   264.1  499.0 OPEN 155 [BENALTO4
240.00] TO 995 [W.GRN TP    240.00] CKT 95
 1558.2    128 ELLERSLI    240.00     81 BIGSTON4    240.00 14  0.15723   254.0  499.0
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                                                                                  OPEN 155 [BENALTO4
240.00] TO 9000 [DIDSBURY_NEW240.00] CKT 18
 1604.5    128 ELLERSLI    240.00     81 BIGSTON4    240.00 14  0.14835   261.0  499.0 OPEN 355 [NOVA C27
138.00] TO 383 [JOFFRE 7    138.00] CKT 2
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  1606.0    155 BENALTO4    240.00    161 SARCEE 4    240.00 06  0.15761   245.9  499.0
------------------------------------------------------------------                    OPEN 155 [BENALTO4
240.00] TO 9000 [DIDSBURY_NEW240.00] CKT 18
  1611.0    155 BENALTO4    240.00    161 SARCEE 4    240.00 28  0.15759   245.1  499.0
------------------------------------------------------------------                    OPEN 155 [BENALTO4
240.00] TO 9000 [DIDSBURY_NEW240.00] CKT 18
  1620.7    155 BENALTO4    240.00    161 SARCEE 4    240.00 06  0.16385   233.5  499.0
------------------------------------------------------------------                    OPEN 9000
[DIDSBURY_NEW240.00] TO 187 [BEDDING1    240.00] CKT 18
  1622.8*   128 ELLERSLI    240.00     81 BIGSTON4    240.00 14  0.15282   251.0  499.0 OPEN 155 [BENALTO4
 240.00] TO 161 [SARCEE 4    240.00] CKT 06
  1624.9    155 BENALTO4    240.00    135 SUNDANC4    240.00 26 -0.15664  -244.5  499.0 OPEN 147 [GAETZ  4
 240.00] TO 152 [RED DEE4    240.00] CKT 14
  1624.9    135 SUNDANC4    240.00    155 BENALTO4    240.00 26  0.15664   244.5  499.0 OPEN 147 [GAETZ  4
 240.00] TO 152 [RED DEE4    240.00] CKT 14
  1625.4    155 BENALTO4    240.00    161 SARCEE 4    240.00 28  0.16383   232.7  499.0
------------------------------------------------------------------                    OPEN 9000
[DIDSBURY_NEW240.00] TO 187 [BEDDING1    240.00] CKT 18
  1631.5    135 SUNDANC4    240.00    155 BENALTO4    240.00 22  0.15637   243.9  499.0 OPEN 147 [GAETZ  4
 240.00] TO 152 [RED DEE4    240.00] CKT 14
  1631.5    155 BENALTO4    240.00    135 SUNDANC4    240.00 22 -0.15637  -243.9  499.0 OPEN 147 [GAETZ  4
 240.00] TO 152 [RED DEE4    240.00] CKT 14
  1644.9    101 COOKING7    138.00     65 BARDO  7    138.00 74  0.02668    46.1   90.0 OPEN 152 [RED DEE4
 240.00] TO 128 [ELLERSLI    240.00] CKT 10
  1653.9    152 RED DEE4    240.00    988 CROSSF T    240.00 01  0.18078   195.0  494.0
------------------------------------------------------------------                    OPEN 9000
[DIDSBURY_NEW240.00] TO 187 [BEDDING1    240.00] CKT 18
  1663.5    107 SUNDRE 7    138.00    883 EAGLE TP    138.00 19  0.05138    62.5  148.0
------------------------------------------------------------------                    OPEN 155 [BENALTO4
240.00] TO 9000 [DIDSBURY_NEW240.00] CKT 18
  1665.4     20 EDSON  7    138.00     39 CYNTHIA7    138.00 02  0.03514    31.5   90.0 OPEN 155 [BENALTO4
 240.00] TO 135 [SUNDANC4    240.00] CKT 26
  1667.4     20 EDSON  7    138.00     39 CYNTHIA7    138.00 02  0.03512    31.4   90.0 OPEN 155 [BENALTO4
 240.00] TO 135 [SUNDANC4    240.00] CKT 22
  1675.8    155 BENALTO4    240.00    135 SUNDANC4    240.00 26 -0.15317  -242.3  499.0 OPEN 93 [WETASKI7
138.00] TO 95 [PONOKA 7    138.00] CKT 16
  1675.8    135 SUNDANC4    240.00    155 BENALTO4    240.00 26  0.15317   242.3  499.0 OPEN 93 [WETASKI7
138.00] TO 95 [PONOKA 7    138.00] CKT 16
  1677.7    128 ELLERSLI    240.00    152 RED DEE4    240.00 10  0.18759   184.3  499.0 OPEN 147 [GAETZ  4
 240.00] TO 81 [BIGSTON4    240.00] CKT 14
  1677.7    152 RED DEE4    240.00    128 ELLERSLI    240.00 10 -0.18759  -184.3  499.0 OPEN 147 [GAETZ  4
 240.00] TO 81 [BIGSTON4    240.00] CKT 14
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  1682.5    155 BENALTO4    240.00    135 SUNDANC4    240.00 22 -0.15290  -241.7  499.0 OPEN 93 [WETASKI7
138.00] TO 95 [PONOKA 7    138.00] CKT 16
  1682.5    135 SUNDANC4    240.00    155 BENALTO4    240.00 22  0.15290   241.7  499.0 OPEN 93 [WETASKI7
138.00] TO 95 [PONOKA 7    138.00] CKT 16
  1683.8    155 BENALTO4    240.00    420 KEEPHIL4    240.00 90 -0.15091  -244.9  499.0 OPEN 155 [BENALTO4
 240.00] TO 420 [KEEPHIL4    240.00] CKT 03
  1683.8    420 KEEPHIL4    240.00    155 BENALTO4    240.00 90  0.15091   244.9  499.0 OPEN 155 [BENALTO4
 240.00] TO 420 [KEEPHIL4    240.00] CKT 03
  1690.6    135 SUNDANC4    240.00    155 BENALTO4    240.00 26  0.15121   243.4  499.0 OPEN 152 [RED DEE4
 240.00] TO 988 [CROSSF T    240.00] CKT 01
  1690.6    155 BENALTO4    240.00    135 SUNDANC4    240.00 26 -0.15121  -243.4  499.0 OPEN 152 [RED DEE4
 240.00] TO 988 [CROSSF T    240.00] CKT 01
  1694.0    124 HARMATT7    138.00    957 166L JNC    138.00 66  0.05138    33.0  120.0
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                                                                                 OPEN 155 [BENALTO4
240.00] TO 9000 [DIDSBURY_NEW240.00] CKT 18
  1696.2*   155 BENALTO4    240.00    135 SUNDANC4    240.00 26 -0.15317  -239.2  499.0 OPEN 95 [PONOKA 7
138.00] TO 116 [W LACOMB    138.00] CKT 80
  1696.2*   135 SUNDANC4    240.00    155 BENALTO4    240.00 26  0.15317   239.2  499.0 OPEN 95 [PONOKA 7
138.00] TO 116 [W LACOMB    138.00] CKT 80
  1697.4    155 BENALTO4    240.00    135 SUNDANC4    240.00 22 -0.15095  -242.8  499.0 OPEN 152 [RED DEE4
 240.00] TO 988 [CROSSF T    240.00] CKT 01
  1697.4    135 SUNDANC4    240.00    155 BENALTO4    240.00 22  0.15095   242.8  499.0 OPEN 152 [RED DEE4
 240.00] TO 988 [CROSSF T    240.00] CKT 01
  1703.0*   135 SUNDANC4    240.00    155 BENALTO4    240.00 22  0.15290   238.6  499.0 OPEN 95 [PONOKA 7
138.00] TO 116 [W LACOMB    138.00] CKT 80
  1703.0*   155 BENALTO4    240.00    135 SUNDANC4    240.00 22 -0.15290  -238.6  499.0 OPEN 95 [PONOKA 7
138.00] TO 116 [W LACOMB    138.00] CKT 80
  1703.3    420 KEEPHIL4    240.00    155 BENALTO4    240.00 03  0.15003   243.5  499.0 OPEN 155 [BENALTO4
 240.00] TO 420 [KEEPHIL4    240.00] CKT 90
  1703.3    155 BENALTO4    240.00    420 KEEPHIL4    240.00 03 -0.15003  -243.5  499.0 OPEN 155 [BENALTO4
 240.00] TO 420 [KEEPHIL4    240.00] CKT 90
  1705.9    101 COOKING7    138.00     65 BARDO  7    138.00 74  0.02225    52.0   90.0 OPEN 374 [BIGSTON7
 138.00] TO 804 [803/804X    138.00] CKT 04
  1709.5    101 COOKING7    138.00     65 BARDO  7    138.00 74  0.02225    52.0   90.0 OPEN 93 [WETASKI7
138.00] TO 803 [803/804N    138.00] CKT 04
  1712.9    152 RED DEE4    240.00    988 CROSSF T    240.00 01  0.17034   202.2  494.0 OPEN 152 [RED DEE4
 240.00] TO 160 [JANET  4    240.00] CKT 29
  1713.1    152 RED DEE4    240.00    988 CROSSF T    240.00 01  0.17033   202.2  494.0 OPEN 152 [RED DEE4
 240.00] TO 160 [JANET  4    240.00] CKT 25
  1736.9     81 BIGSTON4    240.00    147 GAETZ  4    240.00 14  0.19456   161.1  499.0 OPEN 152 [RED DEE4
 240.00] TO 128 [ELLERSLI    240.00] CKT 10
  1752.4    152 RED DEE4    240.00    988 CROSSF T    240.00 01  0.16836   199.0  494.0
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                                                                                 OPEN 155 [BENALTO4
240.00] TO 9000 [DIDSBURY_NEW240.00] CKT 18
  1759.4    123 DIDSBURY    138.00   9000 DIDSBURY_NEW240.00 T1  0.10708    11.6  200.0
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  1922.1     91 NISKU  7    138.00     93 WETASKI7    138.00 58  0.03137    35.7   96.0 OPEN 93 [WETASKI7
138.00] TO 803 [803/804N    138.00] CKT 04
  1923.8    152 RED DEE4    240.00    128 ELLERSLI    240.00 10 -0.16540  -180.8  499.0 OPEN 155 [BENALTO4
240.00] TO 420 [KEEPHIL4    240.00] CKT 90
  1923.8    128 ELLERSLI    240.00    152 RED DEE4    240.00 10  0.16540   180.8  499.0 OPEN 155 [BENALTO4
240.00] TO 420 [KEEPHIL4    240.00] CKT 90
  1927.7    152 RED DEE4    240.00    128 ELLERSLI    240.00 10 -0.16522  -180.5  499.0 OPEN 155 [BENALTO4
240.00] TO 420 [KEEPHIL4    240.00] CKT 03
  1927.7    128 ELLERSLI    240.00    152 RED DEE4    240.00 10  0.16522   180.5  499.0 OPEN 155 [BENALTO4
240.00] TO 420 [KEEPHIL4    240.00] CKT 03
  1933.4    155 BENALTO4    240.00    161 SARCEE 4    240.00 06  0.13627   235.5  499.0 OPEN 152 [RED DEE4
240.00] TO 155 [BENALTO4    240.00] CKT 00
  1939.1    155 BENALTO4    240.00    161 SARCEE 4    240.00 28  0.13626   234.8  499.0 OPEN 152 [RED DEE4
240.00] TO 155 [BENALTO4    240.00] CKT 00
  1957.7    155 BENALTO4    240.00    161 SARCEE 4    240.00 06  0.13974   225.4  499.0 OPEN 152 [RED DEE4
240.00] TO 160 [JANET  4    240.00] CKT 29
  1957.8    155 BENALTO4    240.00    161 SARCEE 4    240.00 06  0.13974   225.4  499.0 OPEN 152 [RED DEE4
240.00] TO 160 [JANET  4    240.00] CKT 25
  1963.3    155 BENALTO4    240.00    161 SARCEE 4    240.00 28  0.13973   224.7  499.0 OPEN 152 [RED DEE4
240.00] TO 160 [JANET  4    240.00] CKT 29
  1963.4    155 BENALTO4    240.00    161 SARCEE 4    240.00 28  0.13972   224.7  499.0 OPEN 152 [RED DEE4
240.00] TO 160 [JANET  4    240.00] CKT 25
  1974.8    101 COOKING7    138.00     65 BARDO  7    138.00 74  0.02328    44.0   90.0 OPEN 155 [BENALTO4
240.00] TO 420 [KEEPHIL4    240.00] CKT 90
  1979.1*   101 COOKING7    138.00     65 BARDO  7    138.00 74  0.02325    44.0   90.0 OPEN 155 [BENALTO4
240.00] TO 420 [KEEPHIL4    240.00] CKT 03
  1986.6    152 RED DEE4    240.00    128 ELLERSLI    240.00 10 -0.16860  -164.1  499.0 OPEN 147 [GAETZ  4
240.00] TO 152 [RED DEE4    240.00] CKT 14
  1986.6    128 ELLERSLI    240.00    152 RED DEE4    240.00 10  0.16860   164.1  499.0 OPEN 147 [GAETZ  4
240.00] TO 152 [RED DEE4    240.00] CKT 14
  2005.6     81 BIGSTON4    240.00    147 GAETZ  4    240.00 14  0.17341   151.2  499.0 OPEN 155 [BENALTO4
240.00] TO 135 [SUNDANC4    240.00] CKT 26
  2006.8     81 BIGSTON4    240.00    147 GAETZ  4    240.00 14  0.17336   151.1  499.0 OPEN 155 [BENALTO4
240.00] TO 135 [SUNDANC4    240.00] CKT 22
  2044.8    147 GAETZ  4    240.00    152 RED DEE4    240.00 14  0.18782   115.0  499.0 OPEN 152 [RED DEE4
240.00] TO 128 [ELLERSLI    240.00] CKT 10
  2089.9    155 BENALTO4    240.00    420 KEEPHIL4    240.00 90 -0.13444  -218.0  499.0 OPEN 155 [BENALTO4
240.00] TO 135 [SUNDANC4    240.00] CKT 26
  2089.9    420 KEEPHIL4    240.00    155 BENALTO4    240.00 90  0.13444   218.0  499.0 OPEN 155 [BENALTO4
240.00] TO 135 [SUNDANC4    240.00] CKT 26
  2091.0    107 SUNDRE 7    138.00    370 SHELL C7    138.00 19 -0.03508   -74.6  148.0 OPEN 120 [INNISFA7
138.00] TO 121 [OLDS   7    138.00] CKT 80
  2091.3    420 KEEPHIL4    240.00    155 BENALTO4    240.00 90  0.13440   217.9  499.0 OPEN 155 [BENALTO4
240.00] TO 135 [SUNDANC4    240.00] CKT 22
  2091.3    155 BENALTO4    240.00    420 KEEPHIL4    240.00 90 -0.13440  -217.9  499.0 OPEN 155 [BENALTO4
240.00] TO 135 [SUNDANC4    240.00] CKT 22
  2095.7    152 RED DEE4    240.00    128 ELLERSLI    240.00 10 -0.15418  -175.9  499.0 OPEN 155 [BENALTO4
240.00] TO 995 [W.GRN TP    240.00] CKT 95
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  2095.7    128 ELLERSLI    240.00    152 RED DEE4    240.00 10  0.15418   175.9  499.0 OPEN 155 [BENALTO4
 240.00] TO 995 [W.GRN TP    240.00] CKT 95
  2108.0     81 BIGSTON4    240.00    147 GAETZ  4    240.00 14  0.16861   143.6  499.0 OPEN 155 [BENALTO4
 240.00] TO 420 [KEEPHIL4    240.00] CKT 90
  2112.1     81 BIGSTON4    240.00    147 GAETZ  4    240.00 14  0.16843   143.3  499.0 OPEN 155 [BENALTO4
 240.00] TO 420 [KEEPHIL4    240.00] CKT 03
  2115.3     81 BIGSTON4    240.00    147 GAETZ  4    240.00 14  0.16546   149.0  499.0 OPEN 152 [RED DEE4
 240.00] TO 155 [BENALTO4    240.00] CKT 00
  2122.2    155 BENALTO4    240.00    420 KEEPHIL4    240.00 03 -0.13328  -216.1  499.0 OPEN 155 [BENALTO4
 240.00] TO 135 [SUNDANC4    240.00] CKT 26
  2122.2    420 KEEPHIL4    240.00    155 BENALTO4    240.00 03  0.13328   216.1  499.0 OPEN 155 [BENALTO4
 240.00] TO 135 [SUNDANC4    240.00] CKT 26
  2123.7    420 KEEPHIL4    240.00    155 BENALTO4    240.00 03  0.13324   216.0  499.0 OPEN 155 [BENALTO4
 240.00] TO 135 [SUNDANC4    240.00] CKT 22
  2123.7    155 BENALTO4    240.00    420 KEEPHIL4    240.00 03 -0.13324  -216.0  499.0 OPEN 155 [BENALTO4
 240.00] TO 135 [SUNDANC4    240.00] CKT 22
  2124.8    152 RED DEE4    240.00    988 CROSSF T    240.00 01  0.14812   179.3  494.0 OPEN 118 [RED DE B
 138.00] TO 120 [INNISFA7    138.00] CKT 80
  2131.9    152 RED DEE4    240.00    988 CROSSF T    240.00 01  0.14742   179.7  494.0 OPEN 123 [DIDSBURY
 138.00] TO 982 [MADDEN T    138.00] CKT 80
  2135.4    152 RED DEE4    240.00    128 ELLERSLI    240.00 10 -0.15699  -163.8  499.0
-------------------------------------------------------------------                OPEN 155 [BENALTO4
240.00] TO 9000 [DIDSBURY_NEW240.00] CKT 18
  2135.4    128 ELLERSLI    240.00    152 RED DEE4    240.00 10  0.15699   163.8  499.0
-------------------------------------------------------------------                OPEN 155 [BENALTO4
240.00] TO 9000 [DIDSBURY_NEW240.00] CKT 18
  2149.3    152 RED DEE4    240.00    988 CROSSF T    240.00 01  0.14812   175.6  494.0 OPEN 120 [INNISFA7
 138.00] TO 121 [OLDS   7    138.00] CKT 80
  2158.4    420 KEEPHIL4    240.00    155 BENALTO4    240.00 90  0.13518   207.2  499.0 OPEN 152 [RED DEE4
 240.00] TO 128 [ELLERSLI    240.00] CKT 10
  2158.4    155 BENALTO4    240.00    420 KEEPHIL4    240.00 90 -0.13518  -207.2  499.0 OPEN 152 [RED DEE4
 240.00] TO 128 [ELLERSLI    240.00] CKT 10
  2164.2    152 RED DEE4    240.00    160 JANET  4    240.00 29  0.14815   178.4  499.0 OPEN 152 [RED DEE4
 240.00] TO 988 [CROSSF T    240.00] CKT 01
  2165.3    152 RED DEE4    240.00    160 JANET  4    240.00 25  0.14810   178.3  499.0 OPEN 152 [RED DEE4
 240.00] TO 988 [CROSSF T    240.00] CKT 01
  2166.6*   152 RED DEE4    240.00    128 ELLERSLI    240.00 10 -0.15660  -159.7  499.0
-------------------------------------------------------------------                OPEN 9000
[DIDSBURY_NEW240.00] TO 187 [BEDDING1    240.00] CKT 18
  2166.6*   128 ELLERSLI    240.00    152 RED DEE4    240.00 10  0.15660   159.7  499.0
-------------------------------------------------------------------                OPEN 9000
[DIDSBURY_NEW240.00] TO 187 [BEDDING1    240.00] CKT 18
  2168.3    766 VER_TAP     138.00     79 BUFFALO7    138.00 29  0.04099   -39.1   49.8 OPEN 152 [RED DEE4
 240.00] TO 128 [ELLERSLI    240.00] CKT 10
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  2169.1    155 BENALTO4    240.00    161 SARCEE 4    240.00 06  0.12905   219.1  499.0 OPEN 123 [DIDSBURY
 138.00] TO 982 [MADDEN T    138.00] CKT 80
  2174.0*   152 RED DEE4    240.00    988 CROSSF T    240.00 01  0.14812   172.0  494.0 OPEN 121 [OLDS   7
 138.00] TO 123 [DIDSBURY    138.00] CKT 80
  2175.2    155 BENALTO4    240.00    161 SARCEE 4    240.00 28  0.12904   218.3  499.0 OPEN 123 [DIDSBURY
 138.00] TO 982 [MADDEN T    138.00] CKT 80
  2190.6    420 KEEPHIL4    240.00    155 BENALTO4    240.00 03  0.13401   205.4  499.0 OPEN 152 [RED DEE4
 240.00] TO 128 [ELLERSLI    240.00] CKT 10
  2190.6    155 BENALTO4    240.00    420 KEEPHIL4    240.00 03 -0.13401  -205.4  499.0 OPEN 152 [RED DEE4
 240.00] TO 128 [ELLERSLI    240.00] CKT 10
  2197.7    117 RED DE A    138.00    118 RED DE B    138.00 1   0.04923    39.8  148.0
-------------------------------------------------------------------                    OPEN 155 [BENALTO4
240.00] TO 9000 [DIDSBURY_NEW240.00] CKT 18
  2198.0    766 VER_TAP     138.00     79 BUFFALO7    138.00 29  0.04096   -40.2   49.8 OPEN 147 [GAETZ  4
 240.00] TO 81 [BIGSTON4    240.00] CKT 14
  2200.8    155 BENALTO4    240.00    161 SARCEE 4    240.00 06  0.13006   212.8  499.0 OPEN 152 [RED DEE4
 240.00] TO 128 [ELLERSLI    240.00] CKT 10
  2206.8    155 BENALTO4    240.00    161 SARCEE 4    240.00 28  0.13004   212.0  499.0 OPEN 152 [RED DEE4
 240.00] TO 128 [ELLERSLI    240.00] CKT 10
  2221.2     81 BIGSTON4    240.00    147 GAETZ  4    240.00 14  0.16908   123.5  499.0 OPEN 93 [WETASKI7
138.00] TO 95 [PONOKA 7    138.00] CKT 16
  2227.1*   155 BENALTO4    240.00    161 SARCEE 4    240.00 06  0.12940   210.8  499.0 OPEN 147 [GAETZ  4
 240.00] TO 81 [BIGSTON4    240.00] CKT 14
  2232.7    766 VER_TAP     138.00     79 BUFFALO7    138.00 29  0.03968   -38.8   49.8 OPEN 155 [BENALTO4
 240.00] TO 135 [SUNDANC4    240.00] CKT 26
  2233.1*   155 BENALTO4    240.00    161 SARCEE 4    240.00 28  0.12938   210.1  499.0 OPEN 147 [GAETZ  4
 240.00] TO 81 [BIGSTON4    240.00] CKT 14
  2233.2     81 BIGSTON4    240.00    147 GAETZ  4    240.00 14  0.15111   161.6  499.0 OPEN 81 [BIGSTON4
240.00] TO 374 [BIGSTON7    138.00] CKT T1
  2233.4    766 VER_TAP     138.00     79 BUFFALO7    138.00 29  0.03967   -38.8   49.8 OPEN 155 [BENALTO4
 240.00] TO 135 [SUNDANC4    240.00] CKT 22
  2239.6    420 KEEPHIL4    240.00    155 BENALTO4    240.00 90  0.13337   200.3  499.0 OPEN 147 [GAETZ  4
 240.00] TO 81 [BIGSTON4    240.00] CKT 14
  2239.6    155 BENALTO4    240.00    420 KEEPHIL4    240.00 90 -0.13337  -200.3  499.0 OPEN 147 [GAETZ  4
 240.00] TO 81 [BIGSTON4    240.00] CKT 14
  2251.5    152 RED DEE4    240.00    160 JANET  4    240.00 29  0.14909   163.3  499.0
-------------------------------------------------------------------                    OPEN 9000
[DIDSBURY_NEW240.00] TO 187 [BEDDING1    240.00] CKT 18
  2252.6    152 RED DEE4    240.00    160 JANET  4    240.00 25  0.14904   163.3  499.0
-------------------------------------------------------------------                    OPEN 9000
[DIDSBURY_NEW240.00] TO 187 [BEDDING1    240.00] CKT 18
  2272.2    420 KEEPHIL4    240.00    155 BENALTO4    240.00 03  0.13222   198.6  499.0 OPEN 147 [GAETZ  4
 240.00] TO 81 [BIGSTON4    240.00] CKT 14
  2272.2    155 BENALTO4    240.00    420 KEEPHIL4    240.00 03 -0.13222  -198.6  499.0 OPEN 147 [GAETZ  4
 240.00] TO 81 [BIGSTON4    240.00] CKT 14
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 2283.4    152 RED DEE4    240.00    160 JANET  4    240.00 29  0.14286   172.8  499.0 OPEN 152 [RED DEE4
240.00] TO 160 [JANET  4    240.00] CKT 25
 2283.9     81 BIGSTON4    240.00    147 GAETZ  4    240.00 14  0.15748   139.3  499.0 OPEN 155 [BENALTO4
240.00] TO 995 [W.GRN TP    240.00] CKT 95
 2284.2    152 RED DEE4    240.00    160 JANET  4    240.00 25  0.14283   172.8  499.0 OPEN 152 [RED DEE4
240.00] TO 160 [JANET  4    240.00] CKT 29
 2293.6    107 SUNDRE 7    138.00    370 SHELL C7    138.00 19 -0.03508   -67.5  148.0 OPEN 121 [OLDS   7
138.00] TO 123 [DIDSBURY    138.00] CKT 80
 2294.0*    81 BIGSTON4    240.00    147 GAETZ  4    240.00 14  0.15556   142.2  499.0 OPEN 374 [BIGSTON7
138.00] TO 804 [803/804X    138.00] CKT 04
 2306.7    121 OLDS   7    138.00    123 DIDSBURY    138.00 80  0.04725    34.0  143.0 OPEN 107 [SUNDRE 7
138.00] TO 370 [SHELL C7    138.00] CKT 19
 2308.7    155 BENALTO4    240.00    420 KEEPHIL4    240.00 90 -0.12172  -218.0  499.0 OPEN 155 [BENALTO4
240.00] TO 995 [W.GRN TP    240.00] CKT 95
 2308.7    420 KEEPHIL4    240.00    155 BENALTO4    240.00 90  0.12172   218.0  499.0 OPEN 155 [BENALTO4
240.00] TO 995 [W.GRN TP    240.00] CKT 95
 2312.2     25 ENTWIST8    69.000     28 MOON LA8    69.000 29  0.00865    16.0   36.0 OPEN 155 [BENALTO4
240.00] TO 135 [SUNDANC4    240.00] CKT 26
 2314.2     20 EDSON  7    138.00     39 CYNTHIA7    138.00 02  0.02975    21.1   90.0 OPEN 152 [RED DEE4
240.00] TO 128 [ELLERSLI    240.00] CKT 10
 2314.4     25 ENTWIST8    69.000     28 MOON LA8    69.000 29  0.00865    16.0   36.0 OPEN 155 [BENALTO4
240.00] TO 135 [SUNDANC4    240.00] CKT 22
 2326.9    766 VER_TAP     138.00     79 BUFFALO7    138.00 29  0.03934   -41.7   49.8
-------------------------------------------------------------                                 OPEN 9000
[DIDSBURY_NEW240.00] TO 187 [BEDDING1    240.00] CKT 18
 2334.0    147 GAETZ  4    240.00    152 RED DEE4    240.00 14  0.16315   118.2  499.0 OPEN 152 [RED DEE4
240.00] TO 155 [BENALTO4    240.00] CKT 00
 2339.6    766 VER_TAP     138.00     79 BUFFALO7    138.00 29  0.03883   -41.0   49.8
-------------------------------------------------------------                                 OPEN 155 [BENALTO4
240.00] TO 9000 [DIDSBURY_NEW240.00] CKT 18
 2344.4    155 BENALTO4    240.00    420 KEEPHIL4    240.00 03 -0.12067  -216.1  499.0 OPEN 155 [BENALTO4
240.00] TO 995 [W.GRN TP    240.00] CKT 95
 2344.4    420 KEEPHIL4    240.00    155 BENALTO4    240.00 03  0.12067   216.1  499.0 OPEN 155 [BENALTO4
240.00] TO 995 [W.GRN TP    240.00] CKT 95
 2345.1    766 VER_TAP     138.00     79 BUFFALO7    138.00 29  0.03855   -40.6   49.8 OPEN 155 [BENALTO4
240.00] TO 420 [KEEPHIL4    240.00] CKT 90
 2347.2    766 VER_TAP     138.00     79 BUFFALO7    138.00 29  0.03853   -40.6   49.8 OPEN 155 [BENALTO4
240.00] TO 420 [KEEPHIL4    240.00] CKT 03
 2348.2     20 EDSON  7    138.00     39 CYNTHIA7    138.00 02  0.02967    20.3   90.0 OPEN 147 [GAETZ  4
240.00] TO 81 [BIGSTON4    240.00] CKT 14
 2370.3    766 VER_TAP     138.00     79 BUFFALO7    138.00 29  0.03829   -40.9   49.8 OPEN 155 [BENALTO4
240.00] TO 161 [SARCEE 4    240.00] CKT 06
 2370.5*   766 VER_TAP     138.00     79 BUFFALO7    138.00 29  0.03829   -40.9   49.8 OPEN 155 [BENALTO4
240.00] TO 161 [SARCEE 4    240.00] CKT 28
 2396.1    152 RED DEE4    240.00    160 JANET  4    240.00 29  0.13860   166.9  499.0
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  2612.2    147 GAETZ  4    240.00    152 RED DEE4    240.00 14  0.15640    90.5  499.0 OPEN 155 [BENALTO4
 240.00] TO 420 [KEEPHIL4    240.00] CKT 03
  2615.4    147 GAETZ  4    240.00    152 RED DEE4    240.00 14  0.16024    79.9  499.0
------------------------------------------------------------                                  OPEN 9000
[DIDSBURY_NEW240.00] TO 187 [BEDDING1    240.00] CKT 18
  2626.7    121 OLDS   7    138.00    123 DIDSBURY    138.00 80  0.04697    19.6  143.0 OPEN 147 [GAETZ  4
 240.00] TO 152 [RED DEE4    240.00] CKT 14
  2636.3    147 GAETZ  4    240.00    152 RED DEE4    240.00 14  0.16261    70.3  499.0 OPEN 115 [S RED DE
 138.00] TO 117 [RED DE A    138.00] CKT 80
  2638.6    155 BENALTO4    240.00    420 KEEPHIL4    240.00 90 -0.11821  -187.1  499.0 OPEN 93 [WETASKI7
138.00] TO 95 [PONOKA 7    138.00] CKT 16
  2638.6    420 KEEPHIL4    240.00    155 BENALTO4    240.00 90  0.11821   187.1  499.0 OPEN 93 [WETASKI7
138.00] TO 95 [PONOKA 7    138.00] CKT 16
  2650.3    118 RED DE B    138.00    120 INNISFA7    138.00 80  0.07194   123.3  314.0
------------------------------------------------------------                  OPEN 155 [BENALTO4
240.00] TO 9000 [DIDSBURY_NEW240.00] CKT 18
  2655.6    121 OLDS   7    138.00    123 DIDSBURY    138.00 80  0.04525    22.8  143.0 OPEN 152 [RED DEE4
 240.00] TO 160 [JANET  4    240.00] CKT 29
  2655.8    121 OLDS   7    138.00    123 DIDSBURY    138.00 80  0.04525    22.8  143.0 OPEN 152 [RED DEE4
 240.00] TO 160 [JANET  4    240.00] CKT 25
  2658.8    121 OLDS   7    138.00    123 DIDSBURY    138.00 80  0.04725    17.4  143.0 OPEN 124 [HARMATT7
 138.00] TO 957 [166L JNC    138.00] CKT 66
  2662.4    420 KEEPHIL4    240.00    155 BENALTO4    240.00 90  0.11668   188.4  499.0 OPEN 152 [RED DEE4
 240.00] TO 988 [CROSSF T    240.00] CKT 01
  2662.4    155 BENALTO4    240.00    420 KEEPHIL4    240.00 90 -0.11668  -188.4  499.0 OPEN 152 [RED DEE4
 240.00] TO 988 [CROSSF T    240.00] CKT 01
  2663.0*   155 BENALTO4    240.00    420 KEEPHIL4    240.00 90 -0.11821  -184.2  499.0 OPEN 95 [PONOKA 7
138.00] TO 116 [W LACOMB    138.00] CKT 80
  2663.0*   420 KEEPHIL4    240.00    155 BENALTO4    240.00 90  0.11821   184.2  499.0 OPEN 95 [PONOKA 7
138.00] TO 116 [W LACOMB    138.00] CKT 80
  2663.3     20 EDSON  7    138.00     39 CYNTHIA7    138.00 02  0.02694    18.2   90.0 BASE CASE
  2672.9    104 STRACHA7    138.00    890 AMOCO TP    138.00 19  0.01562   101.3  143.0 OPEN 99 [BENALTO7
138.00] TO 882 [SCHRA TP    138.00] CKT 48
  2675.5    155 BENALTO4    240.00    420 KEEPHIL4    240.00 03 -0.11719  -185.5  499.0 OPEN 93 [WETASKI7
138.00] TO 95 [PONOKA 7    138.00] CKT 16
  2675.5    420 KEEPHIL4    240.00    155 BENALTO4    240.00 03  0.11719   185.5  499.0 OPEN 93 [WETASKI7
138.00] TO 95 [PONOKA 7    138.00] CKT 16
  2685.8*   121 OLDS   7    138.00    123 DIDSBURY    138.00 80  0.04725    16.1  143.0 OPEN 123 [DIDSBURY
 138.00] TO 957 [166L JNC    138.00] CKT 66
  2689.1    107 SUNDRE 7    138.00    370 SHELL C7    138.00 19 -0.02987   -67.7  148.0 OPEN 152 [RED DEE4
 240.00] TO 988 [CROSSF T    240.00] CKT 01
  2699.7    420 KEEPHIL4    240.00    155 BENALTO4    240.00 03  0.11567   186.7  499.0 OPEN 152 [RED DEE4
 240.00] TO 988 [CROSSF T    240.00] CKT 01
  2699.7    155 BENALTO4    240.00    420 KEEPHIL4    240.00 03 -0.11567  -186.7  499.0 OPEN 152 [RED DEE4
 240.00] TO 988 [CROSSF T    240.00] CKT 01
  2699.8*   155 BENALTO4    240.00    420 KEEPHIL4    240.00 03 -0.11719  -182.6  499.0 OPEN 95 [PONOKA 7
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138.00] TO 116 [W LACOMB    138.00] CKT 80
  2699.8*   420 KEEPHIL4    240.00    155 BENALTO4    240.00 03  0.11719   182.6  499.0 OPEN 95 [PONOKA 7
138.00] TO 116 [W LACOMB    138.00] CKT 80
  2700.5    117 RED DE A    138.00    118 RED DE B    138.00 1   0.04206    34.4  148.0 OPEN 155 [BENALTO4
240.00] TO 135 [SUNDANC4    240.00] CKT 26
  2702.2    117 RED DE A    138.00    118 RED DE B    138.00 1   0.04205    34.4  148.0 OPEN 155 [BENALTO4
240.00] TO 135 [SUNDANC4    240.00] CKT 22
  2708.7    117 RED DE A    138.00    118 RED DE B    138.00 1   0.04273    32.2  148.0 OPEN 152 [RED DEE4
240.00] TO 988 [CROSSF T    240.00] CKT 01
  2721.0*   147 GAETZ  4    240.00    152 RED DEE4    240.00 14  0.15141    87.0  499.0 OPEN 118 [RED DE B
138.00] TO 120 [INNISFA7    138.00] CKT 80
  2755.7    107 SUNDRE 7    138.00    883 EAGLE TP    138.00 19  0.03508    51.3  148.0 OPEN 118 [RED DE B
138.00] TO 120 [INNISFA7    138.00] CKT 80
  2756.3    107 SUNDRE 7    138.00    370 SHELL C7    138.00 19 -0.02694   -73.7  148.0 OPEN 205 [AMOCO R7
138.00] TO 890 [AMOCO TP    138.00] CKT 19
  2779.5    107 SUNDRE 7    138.00    370 SHELL C7    138.00 19 -0.02865   -68.4  148.0 OPEN 152 [RED DEE4
240.00] TO 155 [BENALTO4    240.00] CKT 00
  2779.6*   107 SUNDRE 7    138.00    370 SHELL C7    138.00 19 -0.02917   -66.9  148.0 OPEN 152 [RED DEE4
240.00] TO 160 [JANET  4    240.00] CKT 29
  2790.7     20 EDSON  7    138.00     39 CYNTHIA7    138.00 02  0.02608    17.2   90.0
------------------------------------------------------------------
                                                                                    OPEN 155 [BENALTO4
240.00] TO 9000 [DIDSBURY_NEW240.00] CKT 18
  2800.5    124 HARMATT7    138.00    957 166L JNC    138.00 66  0.03508    21.8  120.0 OPEN 118 [RED DE B
138.00] TO 120 [INNISFA7    138.00] CKT 80
  2854.2    119 N RED D7    138.00    148 GAETZ  7    138.00 78 -0.04269   -98.1  220.0 OPEN 147 [GAETZ  4
240.00] TO 152 [RED DEE4    240.00] CKT 14
  2854.2    119 N RED D7    138.00    148 GAETZ  7    138.00 68 -0.04269   -98.1  220.0 OPEN 147 [GAETZ  4
240.00] TO 152 [RED DEE4    240.00] CKT 14
  2861.5    117 RED DE A    138.00    118 RED DE B    138.00 1   0.04108    30.4  148.0 OPEN 152 [RED DEE4
240.00] TO 160 [JANET  4    240.00] CKT 29
  2861.7    117 RED DE A    138.00    118 RED DE B    138.00 1   0.04108    30.4  148.0 OPEN 152 [RED DEE4
240.00] TO 160 [JANET  4    240.00] CKT 25
  2862.3     68 N HOLDE7    138.00     65 BARDO  7    138.00 74 -0.02080   -30.5   90.0 OPEN 147 [GAETZ  4
240.00] TO 81 [BIGSTON4     240.00] CKT 14
  2875.6    152 RED DEE4    240.00    160 JANET  4    240.00 29  0.12129   150.2  499.0 OPEN 118 [RED DE B
138.00] TO 120 [INNISFA7    138.00] CKT 80
  2876.9    152 RED DEE4    240.00    160 JANET  4    240.00 25  0.12125   150.2  499.0 OPEN 118 [RED DE B
138.00] TO 120 [INNISFA7    138.00] CKT 80
  2878.4*   117 RED DE A    138.00    118 RED DE B    138.00 1   0.03664    42.5  148.0 OPEN 99 [BENALTO7
138.00] TO 780 [SYLV_138    138.00] CKT 1
  2880.0     20 EDSON  7    138.00     39 CYNTHIA7    138.00 02  0.02585    15.6   90.0 OPEN 152 [RED DEE4
240.00] TO 155 [BENALTO4    240.00] CKT 00
  2881.7    152 RED DEE4    240.00    160 JANET  4    240.00 29  0.12078   150.9  499.0 OPEN 123 [DIDSBURY
138.00] TO 982 [MADDEN T    138.00] CKT 80
  2883.0    152 RED DEE4    240.00    160 JANET  4    240.00 25  0.12074   150.9  499.0 OPEN 123 [DIDSBURY
138.00] TO 982 [MADDEN T    138.00] CKT 80
  2887.0    152 RED DEE4    240.00    155 BENALTO4    240.00 00 -0.14868  -275.8  705.0 OPEN 152 [RED DEE4
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240.00] TO 128 [ELLERSLI    240.00] CKT 10
 2898.1     91 NISKU  7    138.00     93 WETASKI7    138.00 58  0.03230     2.4   96.0 OPEN 152 [RED DEE4
240.00] TO 128 [ELLERSLI    240.00] CKT 10
 2902.5    152 RED DEE4    240.00    160 JANET  4    240.00 29  0.12129   147.0  499.0 OPEN 120 [INNISFA7
138.00] TO 121 [OLDS   7    138.00] CKT 80
 2903.8    152 RED DEE4    240.00    160 JANET  4    240.00 25  0.12125   146.9  499.0 OPEN 120 [INNISFA7
138.00] TO 121 [OLDS   7    138.00] CKT 80
 2905.5    152 RED DEE4    240.00    155 BENALTO4    240.00 00 -0.15425  -256.8  705.0
-----------------------------------------------------------------                    OPEN 9000
[DIDSBURY_NEW240.00] TO 187 [BEDDING1    240.00] CKT 18
 2929.4*   152 RED DEE4    240.00    160 JANET  4    240.00 29  0.12129   143.7  499.0 OPEN 121 [OLDS   7
138.00] TO 123 [DIDSBURY    138.00] CKT 80
 2930.7*   152 RED DEE4    240.00    160 JANET  4    240.00 25  0.12125   143.6  499.0 OPEN 121 [OLDS   7
138.00] TO 123 [DIDSBURY    138.00] CKT 80
 2949.4    124 HARMATT7    138.00    883 EAGLE TP    138.00 19 -0.03508   -39.5  143.0 OPEN 118 [RED DE B
138.00] TO 120 [INNISFA7    138.00] CKT 80
 2957.6    107 SUNDRE 7    138.00    883 EAGLE TP    138.00 19  0.03508    44.2  148.0 OPEN 120 [INNISFA7
138.00] TO 121 [OLDS   7    138.00] CKT 80
 2988.8    123 DIDSBURY    138.00    957 166L JNC    138.00 66 -0.03508   -17.2  122.0 OPEN 118 [RED DE B
138.00] TO 120 [INNISFA7    138.00] CKT 80

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*** TLTG EXPORT LIMIT OUTPUT FOR SUBSYSTEM N-OF-SOK ***

* MONITORED ELEMENTS OCCURRING 10 OR MORE TIMES

NO. TIMES	MONITORED ELEMENT F R O M			MONITORED ELEMENT T O		
46	81 BIGSTON4	240.00	147 GAETZ 4	240.00	14
46	9000 DIDSBURY_NEW	240.00	187 BEDDING1	240.00	18
43	128 ELLERSLI	240.00	81 BIGSTON4	240.00	14
43	152 RED DEE4	240.00	988 CROSSF T	240.00	01
42	155 BENALTO4	240.00	9000 DIDSBURY_NEW	240.00	18
40	155 BENALTO4	240.00	161 SARCEE 4	240.00	06
40	155 BENALTO4	240.00	161 SARCEE 4	240.00	28
38	123 DIDSBURY	138.00	982 MADDEN T	138.00	80
36	152 RED DEE4	240.00	128 ELLERSLI	240.00	10
36	128 ELLERSLI	240.00	152 RED DEE4	240.00	10
32	155 BENALTO4	240.00	135 SUNDANC4	240.00	22
32	155 BENALTO4	240.00	135 SUNDANC4	240.00	26
32	135 SUNDANC4	240.00	155 BENALTO4	240.00	22
32	135 SUNDANC4	240.00	155 BENALTO4	240.00	26
30	155 BENALTO4	240.00	420 KEEPHIL4	240.00	03

30	155	BENALTO4	240.00	420	KEEPHIL4	240.00	90
30	420	KEEPHIL4	240.00	155	BENALTO4	240.00	03
30	420	KEEPHIL4	240.00	155	BENALTO4	240.00	90
28	147	GAETZ 4	240.00	152	RED DEE4	240.00	14
24	101	COOKING7	138.00	65	BARDO 7	138.00	74
21	766	VER_TAP	138.00	79	BUFFALO7	138.00	29
19	121	OLDS 7	138.00	123	DIDSBURY	138.00	80
18	152	RED DEE4	240.00	160	JANET 4	240.00	25
18	152	RED DEE4	240.00	160	JANET 4	240.00	29
15	107	SUNDRE 7	138.00	370	SHELL C7	138.00	19
14	117	RED DE A	138.00	118	RED DE B	138.00	1

Alternative 1-2012SP-TLTG-Result

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     PTI INTERACTIVE POWER SYSTEM SIMULATOR--PSS/E   TUE, MAR 08 2011   9:46
 RED DEER AND DIDSBURY AREA STUDY                                    PAGE 1
 2012 SUMMER PEAK BASE CASE REVISION 6.5
        *** TLTG EXPORT LIMIT OUTPUT FOR BASE CASE                ***

 DISTRIBUTION FACTOR FILE:     C:\Documents and Settings\zheny2\My Documents\AESO-RED DEER\New Final Case
01-03-2011\2012\TLTG(Transfer Capability Study
 SUBSYSTEM DESCRIPTION FILE:   C:\Documents and Settings\zheny2\My Documents\AESO-RED DEER\New Final Case
01-03-2011\2012\TLTG(Transfer Capability Study
 MONITORED ELEMENT FILE:       C:\Documents and Settings\zheny2\My Documents\AESO-RED DEER\New Final Case
01-03-2011\2012\TLTG(Transfer Capability Study
 CONTINGENCY DESCRIPTION FILE: C:\Documents and Settings\zheny2\My Documents\AESO-RED DEER\New Final Case
01-03-2011\2012\TLTG(Transfer Capability Study

                                PRE-SHIFT    DELTA  POST-SHIFT
 STUDY SYSTEM MW GENERATION:       7481.2     100.0    7581.2
 OPPOSING SYSTEM MW GENERATION:     205.0    -100.0     105.0
 STUDY SYSTEM NET INTERCHANGE:     1053.5     100.0    1153.5

 <---------------- STUDY SYSTEM -----------------> <--------------- OPPOSING SYSTEM --------------->
                          <---- GENERATOR MW ---->                          <---- GENERATOR MW ---->
   BUS# X-- NAME --X BASKV    BASE   SHIFT  CHANGE   BUS# X-- NAME --X BASKV    BASE   SHIFT  CHANGE
     14 WESGEN 9    13.800    15.3    15.5     0.2   3187 CECST       13.800   100.0    52.2   -47.8
    129 SUND#1GN    18.000   150.0   153.1     3.1   3290 BALZ 3      13.800    40.0    18.4   -21.6
    130 SUND#3GN    20.000   380.0   384.1     4.1   4290 BALZ 1&2    13.800    65.0    34.5   -30.5
    338 SUND#2GN    18.000   302.0   305.1     3.1
    342 SUND#4GN    20.000   420.0   424.1     4.1
    345 SUND#5GN    20.000   380.0   384.1     4.1
    350 SUND#6GN    20.000   370.0   374.4     4.4
    408 WHITEGE9    12.500    25.0    25.3     0.3
    422 KEEP#1GN    19.000   400.0   404.1     4.1
    424 KEEP#2GN    19.000   409.0   413.1     4.1
    454 DOW GEN1    14.400    80.0    81.0     1.0
    490 GENES 39    22.000   450.0   455.4     5.4
    491 GENES 19    20.500   155.4   159.9     4.5
    492 GENES 29    20.500   380.0   384.5     4.5
    627 AIR LIQC    13.800    84.0    84.9     0.9
   1015 FORT NE9    13.800    40.0    40.5     0.5
   1035 RBW 4       13.800    20.0    20.5     0.5
   1089 DIASHOW9    13.800    15.0    15.4     0.4
   1141 P&G    9    13.800    15.0    15.3     0.3
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1148	HR MILN9	15.000	140.0	141.5	1.5
2030	DOWSTG 9	14.700	45.0	45.5	0.5
2031	DOWGTG 9	13.800	45.0	45.9	0.9
2248	MAHKE-G2	13.800	85.0	86.0	1.0
2392	ALPAC2	13.800	64.0	64.9	0.9
2405	CONKLIN2	13.800	76.5	77.4	0.9
3050	REDW GT	13.800	37.0	37.7	0.7
3248	MAHKE-G1	13.800	70.0	71.0	1.0
3301	FCG1	13.800	40.0	40.4	0.4
3302	FCG2	13.800	40.0	40.4	0.4
4185	SCOTF GT	13.800	82.0	83.0	1.0
7185	SCOTF ST	13.800	80.0	81.0	1.0
10236	MUSKEG4	13.800	76.5	77.5	1.0
12236	MUSKEG6	13.800	76.5	77.5	1.0
12249	LNGLKCG1	13.800	72.0	73.0	1.0
13249	LNGLKCG2	13.800	72.0	73.0	1.0
16218	SUNC_G19	13.800	13.1	13.4	0.4
16219	MIL_G3	13.800	47.9	48.6	0.7
16233	SYNC_UE5	13.800	71.2	72.1	0.9
17101	GPEP39	13.800	17.8	18.1	0.3
17209	SYNC_G39	13.800	18.4	18.7	0.3
17210	SYNC_G49	13.800	36.7	37.3	0.6
17233	SYNC_UE4	13.800	12.6	12.9	0.3
18142	BEARCK2	13.800	30.0	30.6	0.6
18206	AUR_GTG2	13.800	74.5	75.4	1.0
18207	AUR_GTG1	13.800	69.8	70.8	1.0
18208	MIL_G5 9	13.800	90.0	91.3	1.3
18209	SYNC_G29	13.800	37.7	38.3	0.6
18210	SYNC_G59	13.800	18.4	18.7	0.3
18218	SUNC G29	13.800	13.1	13.4	0.4
18223	TAR-GN-2	13.800	50.5	51.3	0.8
18264	HORUP7	13.800	77.7	78.6	0.9
18274	MACKAY2	18.000	148.5	150.2	1.7
18302	PRIM GEN	13.800	80.0	81.0	1.0
19142	BEARCK3	13.800	30.0	30.4	0.4
19208	MIL_G6 9	13.800	90.0	91.3	1.3
19209	SYNC_G19	13.800	37.7	38.3	0.6
19210	SYNC_G69	13.800	27.9	28.6	0.7
19264	HORUP6	13.800	14.6	14.7	0.2
19268	HORUP10	13.800	77.7	78.6	0.9
90101	CBAR GT1	13.800	20.0	20.5	0.5
90102	CBAR GT2	13.800	50.0	51.1	1.1
90103	CBAR GT3	13.800	50.0	51.1	1.1
90351	KEEUN3	22.000	450.0	455.4	5.4
90517	SH_UG32	13.800	18.0	18.2	0.2

91521	BIOMASS1	12.500	33.0	33.3	0.3
91522	BIOMASS2	12.500	33.0	33.3	0.3
96083	SHELLCM2	18.000	160.0	162.3	2.3
96118	POPLAR05	13.800	85.0	86.0	1.0
97247	SURMONT 13	13.800	65.0	66.0	1.0
97275	G-L_CG2	13.800	130.0	131.9	1.9
97276	G-L_CG3	13.800	130.0	131.9	1.9
97277	G-L_CG4	13.800	80.0	81.0	1.0
97361	DEER CK 13.8	13.800	81.0	82.0	1.0

LOADINGS AT OR ABOVE 100.0 %
OF RATING ARE MARKED WITH '*'

<------- F R O M ------->			<--------- T O --------->			CKT	INCR. TRANS CAPAB	<---------- BASE CASE ----------> RATING A	PRE-SHIFT MW	POST-SHIFT MW	LIMIT CASE MW	DISTR. FACTOR
155	BENALTO4	240.00	9000	DIDSBURY_NEW	240.00	18	1002.1	417	213.5	233.8	417.0*	0.20312
9000	DIDSBURY_NEW	240.00	187	BEDDING1	240.00	18	1153.2	417	144.6	168.2	381.3	0.23619
123	DIDSBURY	138.00	982	MADDEN T	138.00	80	1291.4	122	78.4	81.8	112.2	0.03377
135	SUNDANC4	240.00	155	BENALTO4	240.00	26	1653.1	466	219.2	234.1	368.8	0.14931
155	BENALTO4	240.00	135	SUNDANC4	240.00	26	1653.1	466	-219.2	-234.1	-368.8	-0.14931
155	BENALTO4	240.00	135	SUNDANC4	240.00	22	1659.5	466	-218.7	-233.6	-368.0	-0.14905
135	SUNDANC4	240.00	155	BENALTO4	240.00	22	1659.5	466	218.7	233.6	368.0	0.14905
128	ELLERSLI	240.00	81	BIGSTON4	240.00	14	1781.6	481	214.5	229.4	364.4	0.14960
152	RED DEE4	240.00	988	CROSSF T	240.00	01	1814.7	408	146.3	160.7	290.8	0.14420
155	BENALTO4	240.00	161	SARCEE 4	240.00	06	2102.7	449	186.1	198.6	311.4	0.12501
155	BENALTO4	240.00	161	SARCEE 4	240.00	28	2107.8	449	185.5	198.0	310.8	0.12500
107	SUNDRE 7	138.00	370	SHELL C7	138.00	19	2180.0	120	-61.1	-63.8	-88.2	-0.02700
152	RED DEE4	240.00	128	ELLERSLI	240.00	10	2206.5	466	-133.6	-148.6	-284.6	-0.15066
128	ELLERSLI	240.00	152	RED DEE4	240.00	10	2206.5	466	133.6	148.6	284.6	0.15066
101	COOKING7	138.00	65	BARDO 7	138.00	74	2475.7	85	32.2	34.4	53.6	0.02131
25	ENTWIST8	69.000	28	MOON LA8	69.000	29	2560.5	29	11.7	12.4	18.5	0.00676
81	BIGSTON4	240.00	147	GAETZ 4	240.00	14	2573.0	499	103.3	118.7	257.4	0.15378
20	EDSON 7	138.00	39	CYNTHIA7	138.00	02	2597.6	85	15.4	18.0	42.2	0.02681
420	KEEPHIL4	240.00	155	BENALTO4	240.00	90	2671.6	466	158.3	169.8	273.7	0.11518
155	BENALTO4	240.00	420	KEEPHIL4	240.00	90	2671.6	466	-158.3	-169.8	-273.7	-0.11518
124	HARMATT7	138.00	957	166L JNC	138.00	66	2682.8	78	5.6	8.3	32.6	0.02700
155	BENALTO4	240.00	420	KEEPHIL4	240.00	03	2706.9	466	-156.9	-168.3	-271.3	-0.11418
420	KEEPHIL4	240.00	155	BENALTO4	240.00	03	2706.9	466	156.9	168.3	271.3	0.11418
121	OLDS 7	138.00	123	DIDSBURY	138.00	80	2729.8	122	13.2	17.2	53.2	0.03984
152	RED DEE4	240.00	160	JANET 4	240.00	29	2989.2	481	128.9	140.7	246.9	0.11780
152	RED DEE4	240.00	160	JANET 4	240.00	25	2990.5	481	128.8	140.6	246.8	0.11776
766	BAT_BUS_DATA	138.00	79	BUFFALO7	138.00	29	2991.9	50	-49.4	-46.1	-16.2	0.03318
123	DIDSBURY	138.00	957	166L JNC	138.00	66	3002.5	81	0.1	-2.6	-27.0	-0.02700
117	RED DE A	138.00	118	RED DE B	138.00	1	3121.0	121	10.8	14.3	46.2	0.03532
147	GAETZ 4	240.00	152	RED DEE4	240.00	14	3188.8	499	40.5	54.9	184.6	0.14379
107	SUNDRE 7	138.00	883	EAGLE TP	138.00	19	3219.8	120	33.1	35.8	60.1	0.02700

124	HARMATT7	138.00	883	EAGLE TP	138.00	19	3623.4	120	-22.2	-24.9	-49.2	-0.02700
91	NISKU 7	138.00	93	WETASKI7	138.00	58	3747.2	96	-4.7	-2.0	22.2	0.02688
152	RED DEE4	240.00	155	BENALTO4	240.00	00	4401.8	584	-199.3	-208.0	-286.9	-0.08740
374	BIGSTON7	138.00	804	803/804X	138.00	04	4459.1	126	78.1	79.2	88.9	0.01074
93	WETASKI7	138.00	803	803/804N	138.00	04	4496.7	126	-77.7	-78.8	-88.5	-0.01074
68	N HOLDE7	138.00	65	BARDO 7	138.00	74	4499.4	85	-19.9	-21.3	-34.4	-0.01447
118	RED DE B	138.00	120	INNISFA7	138.00	80	4550.7	252	70.7	74.7	110.6	0.03984
104	STRACHA7	138.00	890	AMOCO TP	138.00	19	4617.2	120	80.6	81.5	89.2	0.00853
76	IPPL ST7	138.00	14001	HEISLERTAP	138.00	1	4901.5	95	-55.4	-52.4	-24.7	0.03069
120	INNISFA7	138.00	121	OLDS 7	138.00	80	5284.0	252	41.5	45.5	81.4	0.03984
93	WETASKI7	138.00	95	PONOKA 7	138.00	16	5321.0	252	15.4	19.9	60.0	0.04446
95	PONOKA 7	138.00	116	W LACOMB	138.00	80	5966.0	252	-13.3	-8.8	31.3	0.04446
155	BENALTO4	240.00	995	W.GRN TP	240.00	95	6718.0	466	-180.8	-185.0	-223.3	-0.04245
99	BENALTO7	138.00	882	SCHRA TP	138.00	48	7105.0	174	42.8	44.6	61.3	0.01847
96	DEVON 7	138.00	365	BUFORD 7	138.00	38	7120.9	121	14.7	16.2	29.7	0.01492
862	PV-TAP7	138.00	362	EDGERTO7	138.00	49	7255.4	88	-35.7	-34.0	-18.6	0.01705
881	RAVEN TP	138.00	890	AMOCO TP	138.00	19	7560.0	120	-55.5	-56.4	-64.1	-0.00853
115	S RED DE	138.00	119	N RED D7	138.00	80	7595.9	372	-38.8	-43.2	-82.8	-0.04387
105	PIGEON 7	138.00	374	BIGSTON7	138.00	05	7857.9	85	-32.3	-30.8	-17.3	0.01493
370	SHELL C7	138.00	882	SCHRA TP	138.00	48	7897.6	174	-28.1	-30.0	-46.6	-0.01847
123	DIDSBURY	138.00	9000	DIDSBURY_NEW	240.00	T1	8021.8	200	-65.2	-61.9	-32.1	0.03306
370	SHELL C7	138.00	881	RAVEN TP	138.00	19	8063.4	120	-51.3	-52.1	-59.8	-0.00853
356	BON GLE7	138.00	365	BUFORD 7	138.00	38	8267.0	121	2.4	0.9	-12.6	-0.01492
115	S RED DE	138.00	117	RED DE A	138.00	80	8800.8	372	-14.0	-9.7	29.9	0.04387
99	BENALTO7	138.00	155	BENALTO4	240.00	T1	9039.5	200	-66.0	-67.5	-80.9	-0.01482
99	BENALTO7	138.00	155	BENALTO4	240.00	T2	9039.5	200	-66.0	-67.5	-80.9	-0.01482
105	PIGEON 7	138.00	356	BON GLE7	138.00	37	9168.8	119	17.8	16.4	2.9	-0.01493
113	BLACKFA7	138.00	116	W LACOMB	138.00	80	9648.0	252	1.0	-1.6	-25.3	-0.02622
113	BLACKFA7	138.00	119	N RED D7	138.00	80	10567.2	252	-25.1	-22.5	1.2	0.02622
70	CAMROSE7	138.00	946	KING TAP	138.00	30	10647.8	85	-12.1	-12.8	-19.0	-0.00684
65	BARDO 7	138.00	946	KING TAP	138.00	30	10761.8	86	12.3	13.0	19.2	0.00685
384	UC PRENT	138.00	388	ELLIS 7	138.00	74	12144.3	154	-21.1	-22.2	-32.0	-0.01095
99	BENALTO7	138.00	100	ROCKY M7	138.00	17	12410.7	112	6.2	7.0	14.7	0.00853
423	KEEPHIL7	138.00	49	KEYSTON7	138.00	34	12878.7	158	43.5	44.4	52.4	0.00889
119	N RED D7	138.00	148	GAETZ 7	138.00	68	13420.9	180	-61.6	-62.5	-70.5	-0.00882
119	N RED D7	138.00	148	GAETZ 7	138.00	78	13420.9	180	-61.6	-62.5	-70.5	-0.00882
70	CAMROSE7	138.00	94	ERVICK 7	138.00	29	14433.2	85	-13.8	-13.1	-6.9	0.00684
114	LACOMBE7	138.00	116	W LACOMB	138.00	80	14489.5	252	12.3	10.5	-6.0	-0.01824
114	LACOMBE7	138.00	388	ELLIS 7	138.00	1	14744.1	252	-16.9	-15.1	1.3	0.01824
	INTERFACE SOK						16160.3	2050	-373.8	-384.2	-477.8	-0.10372
803	803/804N	138.00	804	803/804X	138.00	04	16203.6	126	-39.0	-39.5	-44.3	-0.00537
803	803/804N	138.00	804	803/804X	138.00	03	16203.6	126	-39.0	-39.5	-44.3	-0.00537
94	ERVICK 7	138.00	899	TRUE W T	138.00	29	16289.7	85	-26.5	-25.8	-19.6	0.00684
100	ROCKY M7	138.00	104	STRACHA7	138.00	70	16508.0	120	-20.7	-19.9	-12.2	0.00853
93	WETASKI7	138.00	899	TRUE W T	138.00	29	17926.1	96	26.7	26.0	19.8	-0.00685

383	JOFFRE 7	138.00	664	PIPER CR	138.00	55	19219.8	252	48.5	49.5	59.1	0.01059
118	RED DE B	138.00	664	PIPER CR	138.00	55	23303.0	252	-5.2	-6.3	-15.8	-0.01059
118	RED DE B	138.00	152	RED DEE4	240.00	T2	26863.3	200	-33.9	-33.0	-25.2	0.00871
117	RED DE A	138.00	152	RED DEE4	240.00	T1	27305.4	200	-33.3	-32.4	-24.7	0.00854
388	ELLIS 7	138.00	975	COMINTAP	138.00	84	30546.4	154	-68.8	-68.1	-61.5	0.00730
152	RED DEE4	240.00	1422	NEVIS 4	240.00	12	31043.3	499	-101.2	-99.2	-81.8	0.01933
383	JOFFRE 7	138.00	975	COMINTAP	138.00	84	31544.5	154	76.1	75.4	68.8	-0.00729
147	GAETZ 4	240.00	148	GAETZ 7	138.00	T2	33581.2	200	31.0	31.5	36.1	0.00503
147	GAETZ 4	240.00	148	GAETZ 7	138.00	T1	34146.8	200	30.6	31.1	35.6	0.00496
148	GAETZ 7	138.00	384	UC PRENT	138.00	59	34697.5	154	16.0	15.6	11.1	-0.00490
383	JOFFRE 7	138.00	384	UC PRENT	138.00	75	36678.5	154	67.7	67.1	61.7	-0.00605
81	BIGSTON4	240.00	374	BIGSTON7	138.00	T1	74340.4	200	110.9	110.5	106.8	-0.00418
99	BENALTO7	138.00	780	SYLV_138	138.00	1	80253.8	252	39.6	39.8	42.2	0.00265
148	GAETZ 7	138.00	383	JOFFRE 7	138.00	56	83678.8	154	-39.0	-39.1	-40.3	-0.00137
148	GAETZ 7	138.00	383	JOFFRE 7	138.00	93	83716.6	154	-38.9	-39.1	-40.3	-0.00137
118	RED DE B	138.00	780	SYLV_138	138.00	1	87765.1	252	-20.8	-21.1	-23.5	-0.00263
95	PONOKA 7	138.00	192	NELSON L	138.00	1	>99999.	96	7.2	7.2	7.2	0.00000
97	ECKVILL7	138.00	956	758L JCT	138.00	58	>99999.	85	-14.5	-14.5	-14.5	0.00000
98	RIMBEY 7	138.00	956	758L JCT	138.00	57	>99999.	85	-19.6	-19.6	-19.6	0.00000
99	BENALTO7	138.00	956	758L JCT	138.00	57	>99999.	85	34.5	34.5	34.5	0.00000
122	MADDEN 7	138.00	982	MADDEN T	138.00	89	>99999.	75	-14.6	-14.6	-14.6	0.00000
124	HARMATT7	138.00	97619	HGF1	138.00	01	>99999.	174	0.6	0.6	0.6	0.00000
126	SHELL H7	138.00	957	166L JNC	138.00	66	>99999.	85	-5.6	-5.6	-5.6	0.00000
142	KINGMAN7	138.00	946	KING TAP	138.00	32	>99999.	86	0.0	0.0	0.0	0.00000
152	RED DEE4	240.00	93700	RED DEER	LUM25.000	T1	>99999.	240	0.0	0.0	0.0	0.00000
205	AMOCO R7	138.00	257	LIMESTO7	138.00	64	>99999.	121	17.9	17.9	17.9	0.00000
205	AMOCO R7	138.00	890	AMOCO TP	138.00	19	>99999.	121	-22.7	-22.7	-22.7	0.00000
354	NOVA C17	138.00	383	JOFFRE 7	138.00	1	>99999.	327	123.5	123.5	123.5	0.00000
355	NOVA C27	138.00	383	JOFFRE 7	138.00	2	>99999.	327	232.3	232.3	232.3	0.00000
382	SHELL RA	138.00	881	RAVEN TP	138.00	19	>99999.	121	-4.2	-4.2	-4.2	0.00000
383	JOFFRE 7	138.00	398	BROOKFLD	138.00	89	>99999.	125	5.5	5.5	5.5	0.00000
385	SHELL SC	138.00	882	SCHRA TP	138.00	48	>99999.	121	-14.0	-14.0	-14.0	0.00000
386	SHELL EA	138.00	883	EAGLE TP	138.00	19	>99999.	121	-10.6	-10.6	-10.6	0.00000
387	COMINCO7	138.00	975	COMINTAP	138.00	84	>99999.	101	-6.8	-6.8	-6.8	0.00000
440	TRUE WEL	138.00	899	TRUE W T	138.00	29	>99999.	98	0.0	0.0	0.0	0.00000

*** TLTG EXPORT LIMIT OUTPUT FOR SUBSYSTEM N-OF-SOK ***

SOLUTION OF 95 SYSTEM CONDITIONS ATTEMPTED 0 INSOLUBLE SYSTEM CONDITIONS

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   INCR.                                                                                  PRE- RATING
   TRANS <----------------- LIMITING ELEMENT ----------------->   DISTR.   SHIFT BAS/CNT
   CAPAB <------- F R O M -------> <--------- T O --------->CKT   FACTOR     MW    A/A  <------------------
CONTINGENCY DESCRIPTION ------------------->
   284.8    123 DIDSBURY    138.00    982 MADDEN T    138.00 80  0.07166   101.6  122.0
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                                                                                        OPEN 9000
[DIDSBURY_NEW240.00] TO 187 [BEDDING1    240.00] CKT 18
   621.1    374 BIGSTON7    138.00    804 803/804X    138.00 04  0.04263    99.5  126.0 OPEN 147 [GAETZ  4
240.00] TO 81 [BIGSTON4    240.00] CKT 14
   630.6     93 WETASKI7    138.00    803 803/804N    138.00 04 -0.04263   -99.1  126.0 OPEN 147 [GAETZ  4
240.00] TO 81 [BIGSTON4    240.00] CKT 14
   643.4    107 SUNDRE 7    138.00    370 SHELL C7    138.00 19 -0.05148   -86.9  120.0
-------------------------------------------------------------------------------------------------------
                                                                                        OPEN 155 [BENALTO4
240.00] TO 9000 [DIDSBURY_NEW240.00] CKT 18
   739.5    155 BENALTO4    240.00   9000 DIDSBURY_NEW240.00 18  0.22705   249.1  417.0 OPEN 155 [BENALTO4
240.00] TO 161 [SARCEE 4    240.00] CKT 06
   740.0    155 BENALTO4    240.00   9000 DIDSBURY_NEW240.00 18  0.22705   249.0  417.0 OPEN 155 [BENALTO4
240.00] TO 161 [SARCEE 4    240.00] CKT 28
   780.1    123 DIDSBURY    138.00    982 MADDEN T    138.00 80  0.04138    89.7  122.0 OPEN 155 [BENALTO4
240.00] TO 161 [SARCEE 4    240.00] CKT 06
   781.0    123 DIDSBURY    138.00    982 MADDEN T    138.00 80  0.04138    89.7  122.0 OPEN 155 [BENALTO4
240.00] TO 161 [SARCEE 4    240.00] CKT 28
   782.2    155 BENALTO4    240.00   9000 DIDSBURY_NEW240.00 18  0.21770   246.7  417.0 OPEN 152 [RED DEE4
240.00] TO 155 [BENALTO4    240.00] CKT 00
   818.2    155 BENALTO4    240.00   9000 DIDSBURY_NEW240.00 18  0.21753   239.0  417.0 OPEN 118 [RED DE B
138.00] TO 120 [INNISFA7    138.00] CKT 80
   833.2    155 BENALTO4    240.00   9000 DIDSBURY_NEW240.00 18  0.22169   232.3  417.0 OPEN 152 [RED DEE4
240.00] TO 988 [CROSSF T    240.00] CKT 01
   847.9    155 BENALTO4    240.00   9000 DIDSBURY_NEW240.00 18  0.21318   236.2  417.0 OPEN 107 [SUNDRE 7
138.00] TO 370 [SHELL C7    138.00] CKT 19
   866.7    155 BENALTO4    240.00   9000 DIDSBURY_NEW240.00 18  0.21753   228.5  417.0 OPEN 120 [INNISFA7
138.00] TO 121 [OLDS   7    138.00] CKT 80
   868.6    155 BENALTO4    240.00   9000 DIDSBURY_NEW240.00 18  0.21693   228.6  417.0 OPEN 152 [RED DEE4
240.00] TO 160 [JANET  4    240.00] CKT 29
   868.7    155 BENALTO4    240.00   9000 DIDSBURY_NEW240.00 18  0.21693   228.6  417.0 OPEN 152 [RED DEE4
240.00] TO 160 [JANET  4    240.00] CKT 25
   897.0*   155 BENALTO4    240.00   9000 DIDSBURY_NEW240.00 18  0.21318   225.8  417.0 OPEN 107 [SUNDRE 7
138.00] TO 883 [EAGLE TP    138.00] CKT 19
   907.0    124 HARMATT7    138.00    957 166L JNC    138.00 66  0.05148    31.3   78.0
-------------------------------------------------------------------------------------------------------
                                                                                        OPEN 155 [BENALTO4
240.00] TO 9000 [DIDSBURY_NEW240.00] CKT 18
   921.9   9000 DIDSBURY_NEW240.00    187 BEDDING1    240.00 18  0.25885   178.4  417.0 OPEN 155 [BENALTO4
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240.00] TO 161 [SARCEE 4    240.00] CKT 06
   922.3   9000 DIDSBURY_NEW240.00    187 BEDDING1    240.00 18  0.25885   178.3  417.0 OPEN 155 [BENALTO4
240.00] TO 161 [SARCEE 4    240.00] CKT 28
   928.6    123 DIDSBURY    138.00    982 MADDEN T    138.00 80  0.04007    84.8  122.0 OPEN 152 [RED DEE4
240.00] TO 988 [CROSSF T    240.00] CKT 01
   932.9    135 SUNDANC4    240.00    155 BENALTO4    240.00 26  0.19412   284.9  466.0 OPEN 155 [BENALTO4
240.00] TO 135 [SUNDANC4    240.00] CKT 22
   932.9    155 BENALTO4    240.00    135 SUNDANC4    240.00 26 -0.19412  -284.9  466.0 OPEN 155 [BENALTO4
240.00] TO 135 [SUNDANC4    240.00] CKT 22
   936.3    155 BENALTO4    240.00    135 SUNDANC4    240.00 22 -0.19388  -284.5  466.0 OPEN 155 [BENALTO4
240.00] TO 135 [SUNDANC4    240.00] CKT 26
   936.3    135 SUNDANC4    240.00    155 BENALTO4    240.00 22  0.19388   284.5  466.0 OPEN 155 [BENALTO4
240.00] TO 135 [SUNDANC4    240.00] CKT 26
   966.3   9000 DIDSBURY_NEW240.00    187 BEDDING1    240.00 18  0.25848   167.2  417.0 OPEN 152 [RED DEE4
240.00] TO 988 [CROSSF T    240.00] CKT 01
   976.2   9000 DIDSBURY_NEW240.00    187 BEDDING1    240.00 18  0.24887   174.1  417.0 OPEN 123 [DIDSBURY
138.00] TO 982 [MADDEN T    138.00] CKT 80
   980.4    123 DIDSBURY    138.00    982 MADDEN T    138.00 80  0.03883    83.9  122.0 OPEN 152 [RED DEE4
240.00] TO 160 [JANET  4    240.00] CKT 29
   980.5    123 DIDSBURY    138.00    982 MADDEN T    138.00 80  0.03883    83.9  122.0 OPEN 152 [RED DEE4
240.00] TO 160 [JANET  4    240.00] CKT 25
  1006.7   9000 DIDSBURY_NEW240.00    187 BEDDING1    240.00 18  0.25266   162.6  417.0 OPEN 152 [RED DEE4
240.00] TO 160 [JANET  4    240.00] CKT 29
  1006.8   9000 DIDSBURY_NEW240.00    187 BEDDING1    240.00 18  0.25265   162.6  417.0 OPEN 152 [RED DEE4
240.00] TO 160 [JANET  4    240.00] CKT 25
  1011.8   9000 DIDSBURY_NEW240.00    187 BEDDING1    240.00 18  0.24633   167.8  417.0 OPEN 152 [RED DEE4
240.00] TO 155 [BENALTO4    240.00] CKT 00
  1039.2    121 OLDS   7    138.00    123 DIDSBURY    138.00 80  0.07206    47.1  122.0
-------------------------------------------------------------                          OPEN 155 [BENALTO4
240.00] TO 9000 [DIDSBURY_NEW240.00] CKT 18
  1074.7    123 DIDSBURY    138.00    957 166L JNC    138.00 66 -0.05148   -25.7   81.0
-------------------------------------------------------------                          OPEN 155 [BENALTO4
240.00] TO 9000 [DIDSBURY_NEW240.00] CKT 18
  1098.9   9000 DIDSBURY_NEW240.00    187 BEDDING1    240.00 18  0.22152   173.6  417.0
-------------------------------------------------------------                          OPEN 9000
[DIDSBURY_NEW240.00] TO 123 [DIDSBURY    138.00] CKT T1
  1111.0   9000 DIDSBURY_NEW240.00    187 BEDDING1    240.00 18  0.24118   149.1  417.0 OPEN 152 [RED DEE4
240.00] TO 128 [ELLERSLI    240.00] CKT 10
  1122.4*  9000 DIDSBURY_NEW240.00    187 BEDDING1    240.00 18  0.24138   146.1  417.0 OPEN 147 [GAETZ  4
240.00] TO 152 [RED DEE4    240.00] CKT 14
  1157.3    123 DIDSBURY    138.00    982 MADDEN T    138.00 80  0.03509    81.4  122.0 OPEN 152 [RED DEE4
240.00] TO 155 [BENALTO4    240.00] CKT 00
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  1181.1    128 ELLERSLI    240.00     81 BIGSTON4    240.00 14  0.19304   253.0  481.0 OPEN 152 [RED DEE4
240.00] TO 128 [ELLERSLI    240.00] CKT 10
  1188.6    107 SUNDRE 7    138.00    883 EAGLE TP    138.00 19  0.05148    58.8  120.0
------------------------------------------------------------                                 OPEN 155 [BENALTO4
240.00] TO 9000 [DIDSBURY_NEW240.00] CKT 18
  1207.9    123 DIDSBURY    138.00    982 MADDEN T    138.00 80  0.03377    81.2  122.0 OPEN 205 [AMOCO R7
138.00] TO 890 [AMOCO TP    138.00] CKT 19
  1224.7    123 DIDSBURY    138.00    982 MADDEN T    138.00 80  0.03377    80.6  122.0 OPEN 99 [BENALTO7
138.00] TO 956 [758L JCT    138.00] CKT 57
  1225.6*   123 DIDSBURY    138.00    982 MADDEN T    138.00 80  0.03377    80.6  122.0 OPEN 205 [AMOCO R7
138.00] TO 257 [LIMESTO7    138.00] CKT 64
  1263.0    107 SUNDRE 7    138.00    370 SHELL C7    138.00 19 -0.03515   -75.6  120.0 OPEN 118 [RED DE B
138.00] TO 120 [INNISFA7    138.00] CKT 80
  1320.0    152 RED DEE4    240.00    988 CROSSF T    240.00 01  0.18112   168.9  408.0
------------------------------------------------------------                                 OPEN 9000
[DIDSBURY_NEW240.00] TO 187 [BEDDING1    240.00] CKT 18
  1357.2    135 SUNDANC4    240.00    155 BENALTO4    240.00 26  0.16900   236.6  466.0 OPEN 152 [RED DEE4
240.00] TO 128 [ELLERSLI    240.00] CKT 10
  1357.2    155 BENALTO4    240.00    135 SUNDANC4    240.00 26 -0.16900  -236.6  466.0 OPEN 152 [RED DEE4
240.00] TO 128 [ELLERSLI    240.00] CKT 10
  1362.8    155 BENALTO4    240.00    135 SUNDANC4    240.00 22 -0.16870  -236.1  466.0 OPEN 152 [RED DEE4
240.00] TO 128 [ELLERSLI    240.00] CKT 10
  1362.8    135 SUNDANC4    240.00    155 BENALTO4    240.00 22  0.16870   236.1  466.0 OPEN 152 [RED DEE4
240.00] TO 128 [ELLERSLI    240.00] CKT 10
  1363.6    152 RED DEE4    240.00    988 CROSSF T    240.00 01  0.17067   175.3  408.0 OPEN 152 [RED DEE4
240.00] TO 160 [JANET  4    240.00] CKT 29
  1363.7    152 RED DEE4    240.00    988 CROSSF T    240.00 01  0.17066   175.3  408.0 OPEN 152 [RED DEE4
240.00] TO 160 [JANET  4    240.00] CKT 25
  1364.8    155 BENALTO4    240.00    161 SARCEE 4    240.00 06  0.15738   234.2  449.0 OPEN 155 [BENALTO4
240.00] TO 161 [SARCEE 4    240.00] CKT 28
  1365.3    155 BENALTO4    240.00    135 SUNDANC4    240.00 26 -0.15695  -251.7  466.0 OPEN 155 [BENALTO4
240.00] TO 995 [W.GRN TP    240.00] CKT 95
  1365.3    135 SUNDANC4    240.00    155 BENALTO4    240.00 26  0.15695   251.7  466.0 OPEN 155 [BENALTO4
240.00] TO 995 [W.GRN TP    240.00] CKT 95
  1367.8    155 BENALTO4    240.00    161 SARCEE 4    240.00 28  0.15737   233.7  449.0 OPEN 155 [BENALTO4
240.00] TO 161 [SARCEE 4    240.00] CKT 06
  1371.3    135 SUNDANC4    240.00    155 BENALTO4    240.00 22  0.15668   251.1  466.0 OPEN 155 [BENALTO4
240.00] TO 995 [W.GRN TP    240.00] CKT 95
  1371.3    155 BENALTO4    240.00    135 SUNDANC4    240.00 22 -0.15668  -251.1  466.0 OPEN 155 [BENALTO4
240.00] TO 995 [W.GRN TP    240.00] CKT 95
  1371.5    117 RED DE A    138.00    118 RED DE B    138.00 1   0.07271    21.3  121.0 OPEN 147 [GAETZ  4
240.00] TO 152 [RED DEE4    240.00] CKT 14
  1376.2    135 SUNDANC4    240.00    155 BENALTO4    240.00 26  0.16434   239.8  466.0 OPEN 155 [BENALTO4
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240.00] TO 420 [KEEPHIL4    240.00] CKT 90
  1376.2    155 BENALTO4    240.00    135 SUNDANC4    240.00 26 -0.16434  -239.8  466.0 OPEN 155 [BENALTO4
240.00] TO 420 [KEEPHIL4    240.00] CKT 90
  1379.1    135 SUNDANC4    240.00    155 BENALTO4    240.00 26  0.16417   239.6  466.0 OPEN 155 [BENALTO4
240.00] TO 420 [KEEPHIL4    240.00] CKT 03
  1379.1    155 BENALTO4    240.00    135 SUNDANC4    240.00 26 -0.16417  -239.6  466.0 OPEN 155 [BENALTO4
240.00] TO 420 [KEEPHIL4    240.00] CKT 03
  1382.0    155 BENALTO4    240.00    135 SUNDANC4    240.00 22 -0.16405  -239.3  466.0 OPEN 155 [BENALTO4
240.00] TO 420 [KEEPHIL4    240.00] CKT 90
  1382.0    135 SUNDANC4    240.00    155 BENALTO4    240.00 22  0.16405   239.3  466.0 OPEN 155 [BENALTO4
240.00] TO 420 [KEEPHIL4    240.00] CKT 90
  1384.9    155 BENALTO4    240.00    135 SUNDANC4    240.00 22 -0.16388  -239.0  466.0 OPEN 155 [BENALTO4
240.00] TO 420 [KEEPHIL4    240.00] CKT 03
  1384.9    135 SUNDANC4    240.00    155 BENALTO4    240.00 22  0.16388   239.0  466.0 OPEN 155 [BENALTO4
240.00] TO 420 [KEEPHIL4    240.00] CKT 03
  1396.2    155 BENALTO4    240.00    135 SUNDANC4    240.00 26 -0.16786  -231.6  466.0 OPEN 147 [GAETZ  4
240.00] TO 81 [BIGSTON4    240.00] CKT 14
  1396.2    135 SUNDANC4    240.00    155 BENALTO4    240.00 26  0.16786   231.6  466.0 OPEN 147 [GAETZ  4
240.00] TO 81 [BIGSTON4    240.00] CKT 14
  1398.8    152 RED DEE4    240.00    988 CROSSF T    240.00 01  0.16868   172.0  408.0
-------------------------------------------------------------------                    OPEN 155 [BENALTO4
240.00] TO 9000 [DIDSBURY_NEW240.00] CKT 18
  1400.3    124 HARMATT7    138.00    883 EAGLE TP    138.00 19 -0.05148   -47.9  120.0
-------------------------------------------------------------------                    OPEN 155 [BENALTO4
240.00] TO 9000 [DIDSBURY_NEW240.00] CKT 18
  1401.9    135 SUNDANC4    240.00    155 BENALTO4    240.00 22  0.16756   231.1  466.0 OPEN 147 [GAETZ  4
240.00] TO 81 [BIGSTON4    240.00] CKT 14
  1401.9    155 BENALTO4    240.00    135 SUNDANC4    240.00 22 -0.16756  -231.1  466.0 OPEN 147 [GAETZ  4
240.00] TO 81 [BIGSTON4    240.00] CKT 14
  1402.9    128 ELLERSLI    240.00     81 BIGSTON4    240.00 14  0.16933   243.4  481.0 OPEN 155 [BENALTO4
240.00] TO 135 [SUNDANC4    240.00] CKT 26
  1403.7    128 ELLERSLI    240.00     81 BIGSTON4    240.00 14  0.16929   243.4  481.0 OPEN 155 [BENALTO4
240.00] TO 135 [SUNDANC4    240.00] CKT 22
  1433.1    107 SUNDRE 7    138.00    370 SHELL C7    138.00 19 -0.03515   -69.6  120.0 OPEN 120 [INNISFA7
138.00] TO 121 [OLDS   7    138.00] CKT 80
  1443.5    155 BENALTO4    240.00    161 SARCEE 4    240.00 06  0.15805   220.9  449.0
-------------------------------------------------------------------                    OPEN 155 [BENALTO4
240.00] TO 9000 [DIDSBURY_NEW240.00] CKT 18
  1447.4    155 BENALTO4    240.00    161 SARCEE 4    240.00 28  0.15803   220.3  449.0
-------------------------------------------------------------------                    OPEN 155 [BENALTO4
240.00] TO 9000 [DIDSBURY_NEW240.00] CKT 18
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  1453.5    155 BENALTO4    240.00    161 SARCEE 4    240.00 06  0.16430   210.2  449.0
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                                                                                    OPEN 9000
[DIDSBURY_NEW240.00] TO 187 [BEDDING1    240.00] CKT 18
  1453.6    152 RED DEE4    240.00    988 CROSSF T    240.00 01  0.16190   172.7  408.0 OPEN 155 [BENALTO4
240.00] TO 161 [SARCEE 4    240.00] CKT 06
  1454.2    152 RED DEE4    240.00    988 CROSSF T    240.00 01  0.16189   172.6  408.0 OPEN 155 [BENALTO4
240.00] TO 161 [SARCEE 4    240.00] CKT 28
  1457.3    155 BENALTO4    240.00    161 SARCEE 4    240.00 28  0.16428   209.6  449.0
------------------------------------------------------------------
                                                                                    OPEN 9000
[DIDSBURY_NEW240.00] TO 187 [BEDDING1    240.00] CKT 18
  1460.9    128 ELLERSLI    240.00     81 BIGSTON4    240.00 14  0.16651   237.7  481.0 OPEN 155 [BENALTO4
240.00] TO 420 [KEEPHIL4    240.00] CKT 90
  1461.6    104 STRACHA7    138.00    890 AMOCO TP    138.00 19  0.01565    97.1  120.0 OPEN 99 [BENALTO7
138.00] TO 882 [SCHRA TP    138.00] CKT 48
  1464.2    128 ELLERSLI    240.00     81 BIGSTON4    240.00 14  0.16632   237.5  481.0 OPEN 155 [BENALTO4
240.00] TO 420 [KEEPHIL4    240.00] CKT 03
  1476.6    128 ELLERSLI    240.00     81 BIGSTON4    240.00 14  0.16174   242.2  481.0 OPEN 152 [RED DEE4
240.00] TO 155 [BENALTO4    240.00] CKT 00
  1558.9    155 BENALTO4    240.00    135 SUNDANC4    240.00 26 -0.15695  -221.3  466.0 OPEN 147 [GAETZ  4
240.00] TO 152 [RED DEE4    240.00] CKT 14
  1558.9    135 SUNDANC4    240.00    155 BENALTO4    240.00 26  0.15695   221.3  466.0 OPEN 147 [GAETZ  4
240.00] TO 152 [RED DEE4    240.00] CKT 14
  1565.0    135 SUNDANC4    240.00    155 BENALTO4    240.00 22  0.15668   220.8  466.0 OPEN 147 [GAETZ  4
240.00] TO 152 [RED DEE4    240.00] CKT 14
  1565.0    155 BENALTO4    240.00    135 SUNDANC4    240.00 22 -0.15668  -220.8  466.0 OPEN 147 [GAETZ  4
240.00] TO 152 [RED DEE4    240.00] CKT 14
  1566.9    117 RED DE A    138.00    118 RED DE B    138.00 1   0.04426    51.7  121.0 OPEN 383 [JOFFRE 7
138.00] TO 664 [PIPER CR    138.00] CKT 55
  1597.4    107 SUNDRE 7    138.00    370 SHELL C7    138.00 19 -0.03515   -63.9  120.0 OPEN 121 [OLDS   7
138.00] TO 123 [DIDSBURY    138.00] CKT 80
  1599.4    128 ELLERSLI    240.00     81 BIGSTON4    240.00 14  0.15425   234.3  481.0 OPEN 155 [BENALTO4
240.00] TO 995 [W.GRN TP    240.00] CKT 95
  1599.5    155 BENALTO4    240.00    135 SUNDANC4    240.00 26 -0.15342  -220.6  466.0 OPEN 93 [WETASKI7
138.00] TO 95 [PONOKA 7    138.00] CKT 16
  1599.5    135 SUNDANC4    240.00    155 BENALTO4    240.00 26  0.15342   220.6  466.0 OPEN 93 [WETASKI7
138.00] TO 95 [PONOKA 7    138.00] CKT 16
  1605.7    135 SUNDANC4    240.00    155 BENALTO4    240.00 22  0.15315   220.1  466.0 OPEN 93 [WETASKI7
138.00] TO 95 [PONOKA 7    138.00] CKT 16
  1605.7    155 BENALTO4    240.00    135 SUNDANC4    240.00 22 -0.15315  -220.1  466.0 OPEN 93 [WETASKI7
138.00] TO 95 [PONOKA 7    138.00] CKT 16
  1615.5    135 SUNDANC4    240.00    155 BENALTO4    240.00 26  0.15145   221.3  466.0 OPEN 152 [RED DEE4
240.00] TO 988 [CROSSF T    240.00] CKT 01
  1615.5    155 BENALTO4    240.00    135 SUNDANC4    240.00 26 -0.15145  -221.3  466.0 OPEN 152 [RED DEE4
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240.00] TO 988 [CROSSF T    240.00] CKT 01
  1616.8*   155 BENALTO4    240.00    135 SUNDANC4    240.00 26 -0.15342  -217.9  466.0 OPEN 95 [PONOKA 7
138.00] TO 116 [W LACOMB    138.00] CKT 80
  1616.8*   135 SUNDANC4    240.00    155 BENALTO4    240.00 26  0.15342   217.9  466.0 OPEN 95 [PONOKA 7
138.00] TO 116 [W LACOMB    138.00] CKT 80
  1620.0    128 ELLERSLI    240.00    152 RED DEE4    240.00 10  0.18921   159.5  466.0 OPEN 147 [GAETZ  4
240.00] TO 81 [BIGSTON4    240.00] CKT 14
  1620.0    152 RED DEE4    240.00    128 ELLERSLI    240.00 10 -0.18921  -159.5  466.0 OPEN 147 [GAETZ  4
240.00] TO 81 [BIGSTON4    240.00] CKT 14
  1621.6    128 ELLERSLI    240.00     81 BIGSTON4    240.00 14  0.15855   223.9  481.0
------------------------------------------------------------                                OPEN 155 [BENALTO4
240.00] TO 9000 [DIDSBURY_NEW240.00] CKT 18
  1621.8    135 SUNDANC4    240.00    155 BENALTO4    240.00 22  0.15118   220.8  466.0 OPEN 152 [RED DEE4
240.00] TO 988 [CROSSF T    240.00] CKT 01
  1621.8    155 BENALTO4    240.00    135 SUNDANC4    240.00 22 -0.15118  -220.8  466.0 OPEN 152 [RED DEE4
240.00] TO 988 [CROSSF T    240.00] CKT 01
  1623.0*   155 BENALTO4    240.00    135 SUNDANC4    240.00 22 -0.15315  -217.4  466.0 OPEN 95 [PONOKA 7
138.00] TO 116 [W LACOMB    138.00] CKT 80
  1623.0*   135 SUNDANC4    240.00    155 BENALTO4    240.00 22  0.15315   217.4  466.0 OPEN 95 [PONOKA 7
138.00] TO 116 [W LACOMB    138.00] CKT 80
  1643.5     20 EDSON  7    138.00     39 CYNTHIA7    138.00 02  0.03503    27.4   85.0 OPEN 155 [BENALTO4
240.00] TO 135 [SUNDANC4    240.00] CKT 26
  1645.4     20 EDSON  7    138.00     39 CYNTHIA7    138.00 02  0.03501    27.4   85.0 OPEN 155 [BENALTO4
240.00] TO 135 [SUNDANC4    240.00] CKT 22
  1649.2    124 HARMATT7    138.00    957 166L JNC    138.00 66  0.03515    20.0   78.0 OPEN 118 [RED DE B
138.00] TO 120 [INNISFA7    138.00] CKT 80
  1678.2     25 ENTWIST8    69.000     28 MOON LA8    69.000 29  0.00865    14.5   29.0 OPEN 155 [BENALTO4
240.00] TO 135 [SUNDANC4    240.00] CKT 26
  1679.9     25 ENTWIST8    69.000     28 MOON LA8    69.000 29  0.00865    14.5   29.0 OPEN 155 [BENALTO4
240.00] TO 135 [SUNDANC4    240.00] CKT 22
  1685.5    128 ELLERSLI    240.00     81 BIGSTON4    240.00 14  0.15413   221.2  481.0 OPEN 155 [BENALTO4
240.00] TO 161 [SARCEE 4    240.00] CKT 06
  1685.6*   128 ELLERSLI    240.00     81 BIGSTON4    240.00 14  0.15412   221.2  481.0 OPEN 155 [BENALTO4
240.00] TO 161 [SARCEE 4    240.00] CKT 28
  1693.4    155 BENALTO4    240.00    420 KEEPHIL4    240.00 90 -0.15190  -208.8  466.0 OPEN 155 [BENALTO4
240.00] TO 420 [KEEPHIL4    240.00] CKT 03
  1693.4    420 KEEPHIL4    240.00    155 BENALTO4    240.00 90  0.15190   208.8  466.0 OPEN 155 [BENALTO4
240.00] TO 420 [KEEPHIL4    240.00] CKT 03
  1700.4    155 BENALTO4    240.00    161 SARCEE 4    240.00 06  0.14353   204.9  449.0 OPEN 152 [RED DEE4
240.00] TO 988 [CROSSF T    240.00] CKT 01
  1704.8    155 BENALTO4    240.00    161 SARCEE 4    240.00 28  0.14352   204.3  449.0 OPEN 152 [RED DEE4
240.00] TO 988 [CROSSF T    240.00] CKT 01
  1711.6    155 BENALTO4    240.00    420 KEEPHIL4    240.00 03 -0.15101  -207.5  466.0 OPEN 155 [BENALTO4
240.00] TO 420 [KEEPHIL4    240.00] CKT 90
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  1711.6    420 KEEPHIL4    240.00    155 BENALTO4    240.00 03  0.15101   207.5  466.0 OPEN 155 [BENALTO4
240.00] TO 420 [KEEPHIL4    240.00] CKT 90
  1713.3    152 RED DEE4    240.00    988 CROSSF T    240.00 01  0.14839   153.8  408.0 OPEN 118 [RED DE B
138.00] TO 120 [INNISFA7    138.00] CKT 80
  1716.8    152 RED DEE4    240.00    988 CROSSF T    240.00 01  0.14770   154.4  408.0 OPEN 123 [DIDSBURY
138.00] TO 982 [MADDEN T    138.00] CKT 80
  1726.4    155 BENALTO4    240.00    161 SARCEE 4    240.00 06  0.13675   212.9  449.0 OPEN 152 [RED DEE4
240.00] TO 155 [BENALTO4    240.00] CKT 00
  1731.0    155 BENALTO4    240.00    161 SARCEE 4    240.00 28  0.13673   212.3  449.0 OPEN 152 [RED DEE4
240.00] TO 155 [BENALTO4    240.00] CKT 00
  1734.0    152 RED DEE4    240.00    988 CROSSF T    240.00 01  0.14839   150.7  408.0 OPEN 120 [INNISFA7
138.00] TO 121 [OLDS   7    138.00] CKT 80
  1736.6    101 COOKING7    138.00     65 BARDO  7    138.00 74  0.02732    37.6   85.0 OPEN 152 [RED DEE4
240.00] TO 128 [ELLERSLI    240.00] CKT 10
  1743.2    107 SUNDRE 7    138.00    370 SHELL C7    138.00 19 -0.03065   -66.6  120.0 OPEN 155 [BENALTO4
240.00] TO 161 [SARCEE 4    240.00] CKT 06
  1743.8    107 SUNDRE 7    138.00    370 SHELL C7    138.00 19 -0.03064   -66.6  120.0 OPEN 155 [BENALTO4
240.00] TO 161 [SARCEE 4    240.00] CKT 28
  1746.8    123 DIDSBURY    138.00   9000 DIDSBURY_NEW240.00 T1  0.10723    12.7  200.0
------------------------------------------------------------------                    OPEN 155 [BENALTO4
240.00] TO 9000 [DIDSBURY_NEW240.00] CKT 18
  1754.1*   152 RED DEE4    240.00    988 CROSSF T    240.00 01  0.14839   147.7  408.0 OPEN 121 [OLDS   7
138.00] TO 123 [DIDSBURY    138.00] CKT 80
  1757.5    155 BENALTO4    240.00    161 SARCEE 4    240.00 06  0.14014   202.7  449.0 OPEN 152 [RED DEE4
240.00] TO 160 [JANET  4    240.00] CKT 29
  1757.6    155 BENALTO4    240.00    161 SARCEE 4    240.00 06  0.14014   202.7  449.0 OPEN 152 [RED DEE4
240.00] TO 160 [JANET  4    240.00] CKT 25
  1762.0    155 BENALTO4    240.00    161 SARCEE 4    240.00 28  0.14013   202.1  449.0 OPEN 152 [RED DEE4
240.00] TO 160 [JANET  4    240.00] CKT 29
  1762.1    155 BENALTO4    240.00    161 SARCEE 4    240.00 28  0.14012   202.1  449.0 OPEN 152 [RED DEE4
240.00] TO 160 [JANET  4    240.00] CKT 25
  1772.4    128 ELLERSLI    240.00    152 RED DEE4    240.00 10  0.17084   163.2  466.0 OPEN 155 [BENALTO4
240.00] TO 135 [SUNDANC4    240.00] CKT 26
  1772.4    152 RED DEE4    240.00    128 ELLERSLI    240.00 10 -0.17084  -163.2  466.0 OPEN 155 [BENALTO4
240.00] TO 135 [SUNDANC4    240.00] CKT 26
  1773.4    152 RED DEE4    240.00    128 ELLERSLI    240.00 10 -0.17079  -163.1  466.0 OPEN 155 [BENALTO4
240.00] TO 135 [SUNDANC4    240.00] CKT 22
  1773.4    128 ELLERSLI    240.00    152 RED DEE4    240.00 10  0.17079   163.1  466.0 OPEN 155 [BENALTO4
240.00] TO 135 [SUNDANC4    240.00] CKT 22
  1819.3    124 HARMATT7    138.00    957 166L JNC    138.00 66  0.03515    14.1   78.0 OPEN 120 [INNISFA7
138.00] TO 121 [OLDS   7    138.00] CKT 80
  1822.4    104 STRACHA7    138.00    890 AMOCO TP    138.00 19  0.01565    91.5  120.0 OPEN 370 [SHELL C7
138.00] TO 882 [SCHRA TP    138.00] CKT 48
  1824.8     81 BIGSTON4    240.00    147 GAETZ  4    240.00 14  0.19622   140.9  499.0 OPEN 152 [RED DEE4
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240.00] TO 128 [ELLERSLI    240.00] CKT 10
  1835.8    128 ELLERSLI    240.00    152 RED DEE4    240.00 10  0.16422   164.5  466.0 OPEN 152 [RED DEE4
240.00] TO 155 [BENALTO4    240.00] CKT 00
  1835.8    152 RED DEE4    240.00    128 ELLERSLI    240.00 10 -0.16422  -164.5  466.0 OPEN 152 [RED DEE4
240.00] TO 155 [BENALTO4    240.00] CKT 00
  1837.8    152 RED DEE4    240.00    155 BENALTO4    240.00 00 -0.16497  -280.8  584.0
------------------------------------------------------------                                OPEN 155 [BENALTO4
240.00] TO 9000 [DIDSBURY_NEW240.00] CKT 18
  1844.7    101 COOKING7    138.00     65 BARDO  7    138.00 74  0.02279    43.0   85.0 OPEN 374 [BIGSTON7
138.00] TO 804 [803/804X    138.00] CKT 04
  1847.2    101 COOKING7    138.00     65 BARDO  7    138.00 74  0.02279    42.9   85.0 OPEN 93 [WETASKI7
138.00] TO 803 [803/804N    138.00] CKT 04
  1852.7    107 SUNDRE 7    138.00    370 SHELL C7    138.00 19 -0.02700   -70.0  120.0 OPEN 205 [AMOCO R7
138.00] TO 890 [AMOCO TP    138.00] CKT 19
  1860.8    128 ELLERSLI    240.00    152 RED DEE4    240.00 10  0.16675   155.7  466.0 OPEN 155 [BENALTO4
240.00] TO 420 [KEEPHIL4    240.00] CKT 90
  1860.8    152 RED DEE4    240.00    128 ELLERSLI    240.00 10 -0.16675  -155.7  466.0 OPEN 155 [BENALTO4
240.00] TO 420 [KEEPHIL4    240.00] CKT 90
  1864.4    152 RED DEE4    240.00    128 ELLERSLI    240.00 10 -0.16657  -155.5  466.0 OPEN 155 [BENALTO4
240.00] TO 420 [KEEPHIL4    240.00] CKT 03
  1864.4    128 ELLERSLI    240.00    152 RED DEE4    240.00 10  0.16657   155.5  466.0 OPEN 155 [BENALTO4
240.00] TO 420 [KEEPHIL4    240.00] CKT 03
  1867.2    107 SUNDRE 7    138.00    370 SHELL C7    138.00 19 -0.02993   -64.1  120.0 OPEN 152 [RED DEE4
240.00] TO 988 [CROSSF T    240.00] CKT 01
  1894.8    123 DIDSBURY    138.00    957 166L JNC    138.00 66 -0.03515   -14.4   81.0 OPEN 118 [RED DE B
138.00] TO 120 [INNISFA7    138.00] CKT 80
  1913.0    107 SUNDRE 7    138.00    370 SHELL C7    138.00 19 -0.02872   -65.1  120.0 OPEN 152 [RED DEE4
240.00] TO 155 [BENALTO4    240.00] CKT 00
  1921.4    104 STRACHA7    138.00    890 AMOCO TP    138.00 19  0.01626    88.8  120.0
------------------------------------------------------------                                OPEN 155 [BENALTO4
240.00] TO 9000 [DIDSBURY_NEW240.00] CKT 18
  1921.9*   107 SUNDRE 7    138.00    370 SHELL C7    138.00 19 -0.02700   -68.1  120.0 OPEN 205 [AMOCO R7
138.00] TO 257 [LIMESTO7    138.00] CKT 64
  1923.2    128 ELLERSLI    240.00    152 RED DEE4    240.00 10  0.17001   139.0  466.0 OPEN 147 [GAETZ  4
240.00] TO 152 [RED DEE4    240.00] CKT 14
  1923.2    152 RED DEE4    240.00    128 ELLERSLI    240.00 10 -0.17001  -139.0  466.0 OPEN 147 [GAETZ  4
240.00] TO 152 [RED DEE4    240.00] CKT 14
  1934.4    117 RED DE A    138.00    118 RED DE B    138.00 1   0.04936    25.5  121.0
------------------------------------------------------------                                OPEN 155 [BENALTO4
240.00] TO 9000 [DIDSBURY_NEW240.00] CKT 18
  1934.6    101 COOKING7    138.00     65 BARDO  7    138.00 74  0.02085    44.7   85.0 OPEN 81 [BIGSTON4
240.00] TO 374 [BIGSTON7    138.00] CKT T1
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  1939.6    121 OLDS   7    138.00    123 DIDSBURY    138.00 80  0.04733    30.2  122.0 OPEN 107 [SUNDRE 7
138.00] TO 370 [SHELL C7    138.00] CKT 19
  1951.8    155 BENALTO4    240.00    161 SARCEE 4    240.00 06  0.12942   196.4  449.0 OPEN 123 [DIDSBURY
138.00] TO 982 [MADDEN T    138.00] CKT 80
  1951.8     81 BIGSTON4    240.00    374 BIGSTON7    138.00 T1  0.03287   135.8  200.0 OPEN 147 [GAETZ  4
240.00] TO 81 [BIGSTON4    240.00] CKT 14
  1956.7    155 BENALTO4    240.00    161 SARCEE 4    240.00 28  0.12941   195.8  449.0 OPEN 123 [DIDSBURY
138.00] TO 982 [MADDEN T    138.00] CKT 80
  1976.8    155 BENALTO4    240.00    161 SARCEE 4    240.00 06  0.13051   191.0  449.0 OPEN 152 [RED DEE4
240.00] TO 128 [ELLERSLI    240.00] CKT 10
  1981.6    155 BENALTO4    240.00    161 SARCEE 4    240.00 28  0.13049   190.4  449.0 OPEN 152 [RED DEE4
240.00] TO 128 [ELLERSLI    240.00] CKT 10
  1983.6    124 HARMATT7    138.00    957 166L JNC    138.00 66  0.03515     8.3   78.0 OPEN 121 [OLDS   7
138.00] TO 123 [DIDSBURY    138.00] CKT 80
  1996.2    101 COOKING7    138.00     65 BARDO  7    138.00 74  0.02426    36.6   85.0 OPEN 155 [BENALTO4
240.00] TO 135 [SUNDANC4    240.00] CKT 26
  1997.2    101 COOKING7    138.00     65 BARDO  7    138.00 74  0.02426    36.6   85.0 OPEN 155 [BENALTO4
240.00] TO 135 [SUNDANC4    240.00] CKT 22
  1999.6*   155 BENALTO4    240.00    161 SARCEE 4    240.00 06  0.12983   189.4  449.0 OPEN 147 [GAETZ  4
240.00] TO 81 [BIGSTON4    240.00] CKT 14
  2004.5*   155 BENALTO4    240.00    161 SARCEE 4    240.00 28  0.12982   188.8  449.0 OPEN 147 [GAETZ  4
240.00] TO 81 [BIGSTON4    240.00] CKT 14
  2009.1    128 ELLERSLI    240.00    152 RED DEE4    240.00 10  0.15540   153.8  466.0 OPEN 155 [BENALTO4
240.00] TO 995 [W.GRN TP    240.00] CKT 95
  2009.1    152 RED DEE4    240.00    128 ELLERSLI    240.00 10 -0.15540  -153.8  466.0 OPEN 155 [BENALTO4
240.00] TO 995 [W.GRN TP    240.00] CKT 95
  2045.8    118 RED DE B    138.00    120 INNISFA7    138.00 80  0.07206   104.6  252.0
------------------------------------------------------------------                    OPEN 155 [BENALTO4
240.00] TO 9000 [DIDSBURY_NEW240.00] CKT 18
  2050.0    152 RED DEE4    240.00    128 ELLERSLI    240.00 10 -0.15826  -141.6  466.0
------------------------------------------------------------------                    OPEN 155 [BENALTO4
240.00] TO 9000 [DIDSBURY_NEW240.00] CKT 18
  2050.0    128 ELLERSLI    240.00    152 RED DEE4    240.00 10  0.15826   141.6  466.0
------------------------------------------------------------------                    OPEN 155 [BENALTO4
240.00] TO 9000 [DIDSBURY_NEW240.00] CKT 18
  2057.6    420 KEEPHIL4    240.00    155 BENALTO4    240.00 90  0.13524   187.7  466.0 OPEN 155 [BENALTO4
240.00] TO 135 [SUNDANC4    240.00] CKT 26
  2057.6    155 BENALTO4    240.00    420 KEEPHIL4    240.00 90 -0.13524  -187.7  466.0 OPEN 155 [BENALTO4
240.00] TO 135 [SUNDANC4    240.00] CKT 26
  2058.9    155 BENALTO4    240.00    420 KEEPHIL4    240.00 90 -0.13519  -187.7  466.0 OPEN 155 [BENALTO4
240.00] TO 135 [SUNDANC4    240.00] CKT 22
  2058.9    420 KEEPHIL4    240.00    155 BENALTO4    240.00 90  0.13519   187.7  466.0 OPEN 155 [BENALTO4
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240.00] TO 135 [SUNDANC4    240.00] CKT 22
  2061.8    107 SUNDRE 7    138.00    883 EAGLE TP    138.00 19  0.03515    47.5  120.0 OPEN 118 [RED DE B
138.00] TO 120 [INNISFA7    138.00] CKT 80
  2064.6     91 NISKU  7    138.00     93 WETASKI7    138.00 58  0.03172    30.5   96.0 OPEN 374 [BIGSTON7
138.00] TO 804 [803/804X    138.00] CKT 04
  2064.8    123 DIDSBURY    138.00    957 166L JNC    138.00 66 -0.03515    -8.4   81.0 OPEN 120 [INNISFA7
138.00] TO 121 [OLDS   7    138.00] CKT 80
  2068.9    101 COOKING7    138.00     65 BARDO  7    138.00 74  0.02383    35.7   85.0 OPEN 155 [BENALTO4
240.00] TO 420 [KEEPHIL4    240.00] CKT 90
  2070.4     91 NISKU  7    138.00     93 WETASKI7    138.00 58  0.03172    30.3   96.0 OPEN 93 [WETASKI7
138.00] TO 803 [803/804N    138.00] CKT 04
  2073.1    101 COOKING7    138.00     65 BARDO  7    138.00 74  0.02380    35.7   85.0 OPEN 155 [BENALTO4
240.00] TO 420 [KEEPHIL4    240.00] CKT 03
  2077.5*   128 ELLERSLI    240.00    152 RED DEE4    240.00 10  0.15788   138.0  466.0
------------------------------------------------------------------
                                                                                        OPEN 9000
[DIDSBURY_NEW240.00] TO 187 [BEDDING1    240.00] CKT 18
  2077.5*   152 RED DEE4    240.00    128 ELLERSLI    240.00 10 -0.15788  -138.0  466.0
------------------------------------------------------------------
                                                                                        OPEN 9000
[DIDSBURY_NEW240.00] TO 187 [BEDDING1    240.00] CKT 18
  2087.7    420 KEEPHIL4    240.00    155 BENALTO4    240.00 03  0.13407   186.1  466.0 OPEN 155 [BENALTO4
240.00] TO 135 [SUNDANC4    240.00] CKT 26
  2087.7    155 BENALTO4    240.00    420 KEEPHIL4    240.00 03 -0.13407  -186.1  466.0 OPEN 155 [BENALTO4
240.00] TO 135 [SUNDANC4    240.00] CKT 26
  2088.9     81 BIGSTON4    240.00    147 GAETZ  4    240.00 14  0.17471   134.0  499.0 OPEN 155 [BENALTO4
240.00] TO 135 [SUNDANC4    240.00] CKT 26
  2089.0    155 BENALTO4    240.00    420 KEEPHIL4    240.00 03 -0.13402  -186.0  466.0 OPEN 155 [BENALTO4
240.00] TO 135 [SUNDANC4    240.00] CKT 22
  2089.0    420 KEEPHIL4    240.00    155 BENALTO4    240.00 03  0.13402   186.0  466.0 OPEN 155 [BENALTO4
240.00] TO 135 [SUNDANC4    240.00] CKT 22
  2090.0     81 BIGSTON4    240.00    147 GAETZ  4    240.00 14  0.17466   134.0  499.0 OPEN 155 [BENALTO4
240.00] TO 135 [SUNDANC4    240.00] CKT 22
  2104.1    121 OLDS   7    138.00    123 DIDSBURY    138.00 80  0.04733    22.4  122.0 OPEN 107 [SUNDRE 7
138.00] TO 883 [EAGLE TP    138.00] CKT 19
  2122.9    101 COOKING7    138.00     65 BARDO  7    138.00 74  0.01709    48.7   85.0 OPEN 93 [WETASKI7
138.00] TO 899 [TRUE W T    138.00] CKT 29
  2123.8    155 BENALTO4    240.00    420 KEEPHIL4    240.00 90 -0.13613  -176.9  466.0 OPEN 152 [RED DEE4
240.00] TO 128 [ELLERSLI    240.00] CKT 10
  2123.8    420 KEEPHIL4    240.00    155 BENALTO4    240.00 90  0.13613   176.9  466.0 OPEN 152 [RED DEE4
240.00] TO 128 [ELLERSLI    240.00] CKT 10
  2130.2*   101 COOKING7    138.00     65 BARDO  7    138.00 74  0.01709    48.6   85.0 OPEN 94 [ERVICK 7
138.00] TO 899 [TRUE W T    138.00] CKT 29
  2153.7    155 BENALTO4    240.00    420 KEEPHIL4    240.00 03 -0.13496  -175.3  466.0 OPEN 152 [RED DEE4
240.00] TO 128 [ELLERSLI    240.00] CKT 10
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  2153.7    420 KEEPHIL4    240.00    155 BENALTO4    240.00 03  0.13496   175.3  466.0 OPEN 152 [RED DEE4
240.00] TO 128 [ELLERSLI    240.00] CKT 10
  2162.1    152 RED DEE4    240.00    160 JANET  4    240.00 29  0.14847   160.0  481.0 OPEN 152 [RED DEE4
240.00] TO 988 [CROSSF T    240.00] CKT 01
  2163.2    121 OLDS   7    138.00    123 DIDSBURY    138.00 80  0.04694    20.5  122.0 OPEN 152 [RED DEE4
240.00] TO 988 [CROSSF T    240.00] CKT 01
  2163.2    152 RED DEE4    240.00    160 JANET  4    240.00 25  0.14842   159.9  481.0 OPEN 152 [RED DEE4
240.00] TO 988 [CROSSF T    240.00] CKT 01
  2168.0    121 OLDS   7    138.00    123 DIDSBURY    138.00 80  0.04733    19.4  122.0 OPEN 124 [HARMATT7
138.00] TO 883 [EAGLE TP    138.00] CKT 19
  2168.1    123 DIDSBURY    138.00   9000 DIDSBURY_NEW240.00 T1 -0.04119  -110.7  200.0
------------------------------------------------------------------                    OPEN 9000
[DIDSBURY_NEW240.00] TO 187 [BEDDING1    240.00] CKT 18
  2186.1    124 HARMATT7    138.00    957 166L JNC    138.00 66  0.03064    11.0   78.0 OPEN 155 [BENALTO4
240.00] TO 161 [SARCEE 4    240.00] CKT 06
  2186.7    124 HARMATT7    138.00    957 166L JNC    138.00 66  0.03064    11.0   78.0 OPEN 155 [BENALTO4
240.00] TO 161 [SARCEE 4    240.00] CKT 28
  2192.7    152 RED DEE4    240.00    155 BENALTO4    240.00 00 -0.15010  -254.9  584.0 OPEN 152 [RED DEE4
240.00] TO 128 [ELLERSLI    240.00] CKT 10
  2194.3     81 BIGSTON4    240.00    147 GAETZ  4    240.00 14  0.16680   133.0  499.0 OPEN 152 [RED DEE4
240.00] TO 155 [BENALTO4    240.00] CKT 00
  2195.8    155 BENALTO4    240.00    420 KEEPHIL4    240.00 90 -0.13429  -171.1  466.0 OPEN 147 [GAETZ  4
240.00] TO 81 [BIGSTON4    240.00] CKT 14
  2195.8    420 KEEPHIL4    240.00    155 BENALTO4    240.00 90  0.13429   171.1  466.0 OPEN 147 [GAETZ  4
240.00] TO 81 [BIGSTON4    240.00] CKT 14
  2197.6     81 BIGSTON4    240.00    147 GAETZ  4    240.00 14  0.16994   125.5  499.0 OPEN 155 [BENALTO4
240.00] TO 420 [KEEPHIL4    240.00] CKT 90
  2201.5     81 BIGSTON4    240.00    147 GAETZ  4    240.00 14  0.16976   125.3  499.0 OPEN 155 [BENALTO4
240.00] TO 420 [KEEPHIL4    240.00] CKT 03
  2205.6    147 GAETZ  4    240.00    152 RED DEE4    240.00 14  0.18951    81.0  499.0 OPEN 152 [RED DEE4
240.00] TO 128 [ELLERSLI    240.00] CKT 10
  2211.6    152 RED DEE4    240.00    155 BENALTO4    240.00 00 -0.15519  -240.8  584.0
------------------------------------------------------------------                    OPEN 9000
[DIDSBURY_NEW240.00] TO 187 [BEDDING1    240.00] CKT 18
  2226.0    155 BENALTO4    240.00    420 KEEPHIL4    240.00 03 -0.13313  -169.7  466.0 OPEN 147 [GAETZ  4
240.00] TO 81 [BIGSTON4    240.00] CKT 14
  2226.0    420 KEEPHIL4    240.00    155 BENALTO4    240.00 03  0.13313   169.7  466.0 OPEN 147 [GAETZ  4
240.00] TO 81 [BIGSTON4    240.00] CKT 14
  2227.3    152 RED DEE4    240.00    160 JANET  4    240.00 29  0.14941   148.2  481.0
------------------------------------------------------------------                    OPEN 9000
[DIDSBURY_NEW240.00] TO 187 [BEDDING1    240.00] CKT 18
  2228.3    152 RED DEE4    240.00    160 JANET  4    240.00 25  0.14936   148.2  481.0
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  2371.8    124 HARMATT7    138.00    883 EAGLE TP    138.00 19 -0.03515   -36.6  120.0 OPEN 118 [RED DE B
138.00] TO 120 [INNISFA7    138.00] CKT 80
  2374.6    117 RED DE A    138.00    118 RED DE B    138.00 1   0.04218    20.8  121.0 OPEN 155 [BENALTO4
240.00] TO 135 [SUNDANC4    240.00] CKT 26
  2375.3    152 RED DEE4    240.00    160 JANET  4    240.00 29  0.13890   151.1  481.0
------------------------------------------------------------------
                                                                                  OPEN 155 [BENALTO4
240.00] TO 9000 [DIDSBURY_NEW240.00] CKT 18
  2376.2    117 RED DE A    138.00    118 RED DE B    138.00 1   0.04217    20.8  121.0 OPEN 155 [BENALTO4
240.00] TO 135 [SUNDANC4    240.00] CKT 22
  2376.4    152 RED DEE4    240.00    160 JANET  4    240.00 25  0.13886   151.0  481.0
------------------------------------------------------------------
                                                                                  OPEN 155 [BENALTO4
240.00] TO 9000 [DIDSBURY_NEW240.00] CKT 18
  2385.7    124 HARMATT7    138.00    957 166L JNC    138.00 66  0.02872     9.5   78.0 OPEN 152 [RED DEE4
240.00] TO 155 [BENALTO4    240.00] CKT 00
  2391.4    117 RED DE A    138.00    118 RED DE B    138.00 1   0.04426    15.2  121.0 OPEN 118 [RED DE B
138.00] TO 664 [PIPER CR    138.00] CKT 55
  2392.5    152 RED DEE4    240.00    155 BENALTO4    240.00 00 -0.13264  -266.7  584.0 OPEN 155 [BENALTO4
240.00] TO 161 [SARCEE 4    240.00] CKT 06
  2394.0    117 RED DE A    138.00    118 RED DE B    138.00 1   0.04286    18.4  121.0 OPEN 152 [RED DEE4
240.00] TO 988 [CROSSF T    240.00] CKT 01
  2394.3    152 RED DEE4    240.00    155 BENALTO4    240.00 00 -0.13263  -266.4  584.0 OPEN 155 [BENALTO4
240.00] TO 161 [SARCEE 4    240.00] CKT 28
  2394.4*   124 HARMATT7    138.00    957 166L JNC    138.00 66  0.02923     8.0   78.0 OPEN 152 [RED DEE4
240.00] TO 160 [JANET  4    240.00] CKT 29
  2396.2    107 SUNDRE 7    138.00    883 EAGLE TP    138.00 19  0.03515    35.8  120.0 OPEN 121 [OLDS   7
138.00] TO 123 [DIDSBURY    138.00] CKT 80
  2412.6    117 RED DE A    138.00    118 RED DE B    138.00 1   0.03676    32.3  121.0 OPEN 99 [BENALTO7
138.00] TO 780 [SYLV_138    138.00] CKT 1
  2431.6    152 RED DEE4    240.00    160 JANET  4    240.00 29  0.13455   153.8  481.0 OPEN 155 [BENALTO4
240.00] TO 161 [SARCEE 4    240.00] CKT 06
  2432.3    152 RED DEE4    240.00    160 JANET  4    240.00 29  0.13455   153.7  481.0 OPEN 155 [BENALTO4
240.00] TO 161 [SARCEE 4    240.00] CKT 28
  2432.8    152 RED DEE4    240.00    160 JANET  4    240.00 25  0.13451   153.8  481.0 OPEN 155 [BENALTO4
240.00] TO 161 [SARCEE 4    240.00] CKT 06
  2433.4    152 RED DEE4    240.00    160 JANET  4    240.00 25  0.13451   153.7  481.0 OPEN 155 [BENALTO4
240.00] TO 161 [SARCEE 4    240.00] CKT 28
  2450.0    152 RED DEE4    240.00    155 BENALTO4    240.00 00 -0.14204  -236.0  584.0 OPEN 147 [GAETZ  4
240.00] TO 81 [BIGSTON4    240.00] CKT 14
  2451.2    120 INNISFA7    138.00    121 OLDS   7    138.00 80  0.07206    75.4  252.0
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                                                                                  OPEN 155 [BENALTO4
240.00] TO 9000 [DIDSBURY_NEW240.00] CKT 18
  2467.8    123 DIDSBURY    138.00    957 166L JNC    138.00 66 -0.03064    -5.4   81.0 OPEN 155 [BENALTO4
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240.00] TO 161 [SARCEE 4    240.00] CKT 06
  2468.4    123 DIDSBURY    138.00    957 166L JNC    138.00 66 -0.03064    -5.4   81.0 OPEN 155 [BENALTO4
240.00] TO 161 [SARCEE 4    240.00] CKT 28
  2485.1    155 BENALTO4    240.00    420 KEEPHIL4    240.00 90 -0.12294  -160.5  466.0 OPEN 147 [GAETZ  4
240.00] TO 152 [RED DEE4    240.00] CKT 14
  2485.1    420 KEEPHIL4    240.00    155 BENALTO4    240.00 90  0.12294   160.5  466.0 OPEN 147 [GAETZ  4
240.00] TO 152 [RED DEE4    240.00] CKT 14
  2499.0    147 GAETZ  4    240.00    152 RED DEE4    240.00 14  0.16455    87.8  499.0 OPEN 152 [RED DEE4
240.00] TO 155 [BENALTO4    240.00] CKT 00
  2518.2    155 BENALTO4    240.00    420 KEEPHIL4    240.00 03 -0.12188  -159.1  466.0 OPEN 147 [GAETZ  4
240.00] TO 152 [RED DEE4    240.00] CKT 14
  2518.2    420 KEEPHIL4    240.00    155 BENALTO4    240.00 03  0.12188   159.1  466.0 OPEN 147 [GAETZ  4
240.00] TO 152 [RED DEE4    240.00] CKT 14
  2519.5    117 RED DE A    138.00    118 RED DE B    138.00 1   0.04120    17.2  121.0 OPEN 152 [RED DEE4
240.00] TO 160 [JANET  4    240.00] CKT 29
  2519.7*   117 RED DE A    138.00    118 RED DE B    138.00 1   0.04120    17.2  121.0 OPEN 152 [RED DEE4
240.00] TO 160 [JANET  4    240.00] CKT 25
  2528.0    119 N RED D7    138.00    148 GAETZ  7    138.00 78 -0.04302   -71.2  180.0 OPEN 147 [GAETZ  4
240.00] TO 152 [RED DEE4    240.00] CKT 14
  2528.0    119 N RED D7    138.00    148 GAETZ  7    138.00 68 -0.04302   -71.2  180.0 OPEN 147 [GAETZ  4
240.00] TO 152 [RED DEE4    240.00] CKT 14
  2541.8    124 HARMATT7    138.00    883 EAGLE TP    138.00 19 -0.03515   -30.7  120.0 OPEN 120 [INNISFA7
138.00] TO 121 [OLDS   7    138.00] CKT 80
  2560.5     25 ENTWIST8    69.000     28 MOON LA8    69.000 29  0.00676    11.7   29.0 BASE CASE
  2575.6    155 BENALTO4    240.00    420 KEEPHIL4    240.00 90 -0.11896  -159.6  466.0 OPEN 93 [WETASKI7
138.00] TO 95 [PONOKA 7    138.00] CKT 16
  2575.6    420 KEEPHIL4    240.00    155 BENALTO4    240.00 90  0.11896   159.6  466.0 OPEN 93 [WETASKI7
138.00] TO 95 [PONOKA 7    138.00] CKT 16
  2588.5    766 BAT_BUS_DATA138.00     79 BUFFALO7    138.00 29  0.03703   -46.0   49.8 OPEN 152 [RED DEE4
240.00] TO 128 [ELLERSLI    240.00] CKT 10
  2596.1    155 BENALTO4    240.00    420 KEEPHIL4    240.00 90 -0.11896  -157.2  466.0 OPEN 95 [PONOKA 7
138.00] TO 116 [W LACOMB    138.00] CKT 80
  2596.1    420 KEEPHIL4    240.00    155 BENALTO4    240.00 90  0.11896   157.2  466.0 OPEN 95 [PONOKA 7
138.00] TO 116 [W LACOMB    138.00] CKT 80
  2597.6     20 EDSON  7    138.00     39 CYNTHIA7    138.00 02  0.02681    15.4   85.0 BASE CASE
  2601.5*   155 BENALTO4    240.00    420 KEEPHIL4    240.00 90 -0.11741  -160.6  466.0 OPEN 152 [RED DEE4
240.00] TO 988 [CROSSF T    240.00] CKT 01
  2601.5*   420 KEEPHIL4    240.00    155 BENALTO4    240.00 90  0.11741   160.6  466.0 OPEN 152 [RED DEE4
240.00] TO 988 [CROSSF T    240.00] CKT 01
  2609.2    123 DIDSBURY    138.00    957 166L JNC    138.00 66 -0.02993    -2.9   81.0 OPEN 152 [RED DEE4
240.00] TO 988 [CROSSF T    240.00] CKT 01
  2609.4    766 BAT_BUS_DATA138.00     79 BUFFALO7    138.00 29  0.03705   -46.8   49.8 OPEN 147 [GAETZ  4
240.00] TO 81 [BIGSTON4    240.00] CKT 14
  2609.8    155 BENALTO4    240.00    420 KEEPHIL4    240.00 03 -0.11793  -158.2  466.0 OPEN 93 [WETASKI7
138.00] TO 95 [PONOKA 7    138.00] CKT 16
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  2609.8    420 KEEPHIL4    240.00    155 BENALTO4    240.00 03  0.11793   158.2  466.0 OPEN 93 [WETASKI7
138.00] TO 95 [PONOKA 7    138.00] CKT 16
  2630.3    155 BENALTO4    240.00    420 KEEPHIL4    240.00 03 -0.11793  -155.8  466.0 OPEN 95 [PONOKA 7
138.00] TO 116 [W LACOMB    138.00] CKT 80
  2630.3    420 KEEPHIL4    240.00    155 BENALTO4    240.00 03  0.11793   155.8  466.0 OPEN 95 [PONOKA 7
138.00] TO 116 [W LACOMB    138.00] CKT 80
  2636.1*   155 BENALTO4    240.00    420 KEEPHIL4    240.00 03 -0.11639  -159.2  466.0 OPEN 152 [RED DEE4
240.00] TO 988 [CROSSF T    240.00] CKT 01
  2636.1*   420 KEEPHIL4    240.00    155 BENALTO4    240.00 03  0.11639   159.2  466.0 OPEN 152 [RED DEE4
240.00] TO 988 [CROSSF T    240.00] CKT 01
  2657.9    147 GAETZ  4    240.00    152 RED DEE4    240.00 14  0.16229    67.6  499.0 OPEN 155 [BENALTO4
240.00] TO 135 [SUNDANC4    240.00] CKT 26
  2659.1    147 GAETZ  4    240.00    152 RED DEE4    240.00 14  0.16225    67.6  499.0 OPEN 155 [BENALTO4
240.00] TO 135 [SUNDANC4    240.00] CKT 22
  2659.3    107 SUNDRE 7    138.00    883 EAGLE TP    138.00 19  0.03065    38.5  120.0 OPEN 155 [BENALTO4
240.00] TO 161 [SARCEE 4    240.00] CKT 06
  2659.9    107 SUNDRE 7    138.00    883 EAGLE TP    138.00 19  0.03064    38.5  120.0 OPEN 155 [BENALTO4
240.00] TO 161 [SARCEE 4    240.00] CKT 28
  2666.6    766 BAT_BUS_DATA138.00     79 BUFFALO7    138.00 29  0.03579   -45.6   49.8 OPEN 155 [BENALTO4
240.00] TO 135 [SUNDANC4    240.00] CKT 26
  2667.4    766 BAT_BUS_DATA138.00     79 BUFFALO7    138.00 29  0.03578   -45.6   49.8 OPEN 155 [BENALTO4
240.00] TO 135 [SUNDANC4    240.00] CKT 22
  2675.2    123 DIDSBURY    138.00    957 166L JNC    138.00 66 -0.02700    -8.8   81.0 OPEN 205 [AMOCO R7
138.00] TO 890 [AMOCO TP    138.00] CKT 19
  2686.3    123 DIDSBURY    138.00    957 166L JNC    138.00 66 -0.02872    -3.9   81.0 OPEN 152 [RED DEE4
240.00] TO 155 [BENALTO4    240.00] CKT 00
  2688.9    147 GAETZ  4    240.00    152 RED DEE4    240.00 14  0.16391    58.3  499.0 OPEN 115 [S RED DE
138.00] TO 119 [N RED D7    138.00] CKT 80
  2689.7*   123 DIDSBURY    138.00    957 166L JNC    138.00 66 -0.02923    -2.4   81.0 OPEN 152 [RED DEE4
240.00] TO 160 [JANET  4    240.00] CKT 29
  2703.8     91 NISKU  7    138.00     93 WETASKI7    138.00 58  0.02570    26.5   96.0 OPEN 81 [BIGSTON4
240.00] TO 374 [BIGSTON7    138.00] CKT T1
  2706.2    124 HARMATT7    138.00    883 EAGLE TP    138.00 19 -0.03515   -24.9  120.0 OPEN 121 [OLDS   7
138.00] TO 123 [DIDSBURY    138.00] CKT 80
  2756.5    766 BAT_BUS_DATA138.00     79 BUFFALO7    138.00 29  0.03550   -48.0   49.8
-------------------------------------------------------------------                    OPEN 9000
[DIDSBURY_NEW240.00] TO 187 [BEDDING1    240.00] CKT 18
  2771.7    147 GAETZ  4    240.00    152 RED DEE4    240.00 14  0.16151    51.3  499.0
-------------------------------------------------------------------                    OPEN 9000
[DIDSBURY_NEW240.00] TO 187 [BEDDING1    240.00] CKT 18
  2776.3    115 S RED DE    138.00    119 N RED D7    138.00 80 -0.11300   -58.3  372.0 OPEN 147 [GAETZ  4
240.00] TO 152 [RED DEE4    240.00] CKT 14
  2778.3    766 BAT_BUS_DATA138.00     79 BUFFALO7    138.00 29  0.03503   -47.5   49.8
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  2890.6*   107 SUNDRE 7    138.00    883 EAGLE TP    138.00 19  0.02872    37.0  120.0 OPEN 152 [RED DEE4
240.00] TO 155 [BENALTO4    240.00] CKT 00
  2893.0     93 WETASKI7    138.00    803 803/804N    138.00 04 -0.01617   -79.2  126.0 OPEN 147 [GAETZ  4
240.00] TO 152 [RED DEE4    240.00] CKT 14
  2901.1    374 BIGSTON7    138.00    804 803/804X    138.00 04  0.01430    84.5  126.0 OPEN 65 [BARDO  7
138.00] TO 946 [KING TAP    138.00] CKT 30
  2902.0*   147 GAETZ  4    240.00    152 RED DEE4    240.00 14  0.15261    56.1  499.0 OPEN 118 [RED DE B
138.00] TO 120 [INNISFA7    138.00] CKT 80
  2909.1    374 BIGSTON7    138.00    804 803/804X    138.00 04  0.01430    84.4  126.0 OPEN 70 [CAMROSE7
138.00] TO 946 [KING TAP    138.00] CKT 30
  2915.9    152 RED DEE4    240.00    155 BENALTO4    240.00 00 -0.12801  -210.7  584.0 OPEN 147 [GAETZ  4
240.00] TO 152 [RED DEE4    240.00] CKT 14
  2928.7     91 NISKU  7    138.00     93 WETASKI7    138.00 58  0.03264     0.4   96.0 OPEN 152 [RED DEE4
240.00] TO 128 [ELLERSLI    240.00] CKT 10
  2929.4     93 WETASKI7    138.00    803 803/804N    138.00 04 -0.01430   -84.1  126.0 OPEN 65 [BARDO  7
138.00] TO 946 [KING TAP    138.00] CKT 30
  2937.4     93 WETASKI7    138.00    803 803/804N    138.00 04 -0.01430   -84.0  126.0 OPEN 70 [CAMROSE7
138.00] TO 946 [KING TAP    138.00] CKT 30
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PTI INTERACTIVE POWER SYSTEM SIMULATOR--PSS/E TUE, MAR 08 2011 9:46
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2012 SUMMER PEAK BASE CASE REVISION 6.5

*** TLTG EXPORT LIMIT OUTPUT FOR SUBSYSTEM N-OF-SOK ***

* MONITORED ELEMENTS OCCURRING 10 OR MORE TIMES

NO. TIMES	MONITORED ELEMENT F R O M			MONITORED ELEMENT T O		
45	128 ELLERSLI	240.00	81	BIGSTON4	240.00	14
44	81 BIGSTON4	240.00	147	GAETZ 4	240.00	14
44	9000 DIDSBURY_NEW	240.00	187	BEDDING1	240.00	18
43	121 OLDS 7	138.00	123	DIDSBURY	138.00	80
42	152 RED DEE4	240.00	988	CROSSF T	240.00	01
41	155 BENALTO4	240.00	9000	DIDSBURY_NEW	240.00	18
40	155 BENALTO4	240.00	161	SARCEE 4	240.00	06
40	155 BENALTO4	240.00	161	SARCEE 4	240.00	28
36	123 DIDSBURY	138.00	982	MADDEN T	138.00	80
34	152 RED DEE4	240.00	160	JANET 4	240.00	25
34	152 RED DEE4	240.00	160	JANET 4	240.00	29
31	107 SUNDRE 7	138.00	370	SHELL C7	138.00	19
28	152 RED DEE4	240.00	128	ELLERSLI	240.00	10
28	128 ELLERSLI	240.00	152	RED DEE4	240.00	10
28	155 BENALTO4	240.00	135	SUNDANC4	240.00	22

28	155	BENALTO4	240.00	135	SUNDANC4	240.00	26
28	135	SUNDANC4	240.00	155	BENALTO4	240.00	22
28	135	SUNDANC4	240.00	155	BENALTO4	240.00	26
27	155	BENALTO4	240.00	420	KEEPHIL4	240.00	03
27	155	BENALTO4	240.00	420	KEEPHIL4	240.00	90
27	420	KEEPHIL4	240.00	155	BENALTO4	240.00	03
27	420	KEEPHIL4	240.00	155	BENALTO4	240.00	90
27	124	HARMATT7	138.00	957	166L JNC	138.00	66
23	101	COOKING7	138.00	65	BARDO 7	138.00	74
21	123	DIDSBURY	138.00	957	166L JNC	138.00	66
19	117	RED DE A	138.00	118	RED DE B	138.00	1
13	147	GAETZ 4	240.00	152	RED DEE4	240.00	14
13	766	BAT_BUS_DATA	138.00	79	BUFFALO7	138.00	29
12	107	SUNDRE 7	138.00	883	EAGLE TP	138.00	19

Alternative 1-2012SL-TLTG-Result

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     PTI INTERACTIVE POWER SYSTEM SIMULATOR--PSS/E   TUE, MAR 08 2011   9:47
 RED DEER AND DIDSBURY AREA STUDY                                    PAGE 1
 2012 SUMMER LIGHT BASE CASE REVISION 6.5
        *** TLTG EXPORT LIMIT OUTPUT FOR BASE CASE                ***

 DISTRIBUTION FACTOR FILE:     C:\Documents and Settings\zheny2\My Documents\AESO-RED DEER\New Final Case
01-03-2011\2012\TLTG(Transfer Capability Study
 SUBSYSTEM DESCRIPTION FILE:   C:\Documents and Settings\zheny2\My Documents\AESO-RED DEER\New Final Case
01-03-2011\2012\TLTG(Transfer Capability Study
 MONITORED ELEMENT FILE:       C:\Documents and Settings\zheny2\My Documents\AESO-RED DEER\New Final Case
01-03-2011\2012\TLTG(Transfer Capability Study
 CONTINGENCY DESCRIPTION FILE: C:\Documents and Settings\zheny2\My Documents\AESO-RED DEER\New Final Case
01-03-2011\2012\TLTG(Transfer Capability Study

                                PRE-SHIFT    DELTA  POST-SHIFT
 STUDY SYSTEM MW GENERATION:       6453.2     100.0    6553.2
 OPPOSING SYSTEM MW GENERATION:      90.0    -100.0     -10.0
 STUDY SYSTEM NET INTERCHANGE:      766.3     100.0     866.3

 <---------------- STUDY SYSTEM -----------------> <--------------- OPPOSING SYSTEM --------------->
                        <---- GENERATOR MW ---->                        <---- GENERATOR MW ---->
   BUS# X-- NAME --X BASKV    BASE   SHIFT  CHANGE   BUS# X-- NAME --X BASKV    BASE   SHIFT  CHANGE
     14 WESGEN 9    13.800    15.3    15.5     0.2   3290 BALZ 3      13.800    10.0    -8.0   -18.0
    129 SUND#1GN    18.000   120.0   123.4     3.4   4187 CECGT       18.000    60.0     3.5   -56.5
    130 SUND#3GN    20.000   420.0   424.5     4.5   4290 BALZ 1&2    13.800    20.0    -5.5   -25.5
    338 SUND#2GN    18.000   260.0   263.4     3.4
    342 SUND#4GN    20.000   370.0   374.5     4.5
    345 SUND#5GN    20.000   340.0   344.5     4.5
    350 SUND#6GN    20.000   370.0   374.8     4.8
    408 WHITEGE9    12.500    25.0    25.4     0.4
    422 KEEP#1GN    19.000   400.0   404.5     4.5
    424 KEEP#2GN    19.000   400.0   404.5     4.5
    454 DOW GEN1    14.400    80.0    81.1     1.1
    490 GENES 39    22.000   450.0   456.0     6.0
    491 GENES 19    20.500    48.4    53.3     4.9
    492 GENES 29    20.500   380.0   384.9     4.9
    627 AIR LIQC    13.800    84.0    85.0     1.0
   1015 FORT NE9    13.800    30.0    30.6     0.6
   1089 DIASHOW9    13.800    15.0    15.5     0.5
   1141 P&G    9    13.800    15.0    15.4     0.4
   1148 HR MILN9    15.000   140.0   141.7     1.7
   2030 DOWSTG 9    14.700    45.0    45.5     0.5
   2031 DOWGTG 9    13.800    10.0    11.0     1.0
   2248 MAHKE-G2    13.800    60.0    61.1     1.1
                                                  Page 1
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2405	CONKLIN2	13.800	76.5	77.5	1.0
3050	REDW GT	13.800	37.0	37.7	0.7
3248	MAHKE-G1	13.800	70.0	71.1	1.1
3301	FCG1	13.800	20.0	20.4	0.4
3302	FCG2	13.800	40.0	40.4	0.4
4185	SCOTF GT	13.800	70.0	71.1	1.1
7185	SCOTF ST	13.800	40.0	41.1	1.1
10236	MUSKEG4	13.800	76.5	77.6	1.1
12236	MUSKEG6	13.800	76.5	77.6	1.1
12249	LNGLKCG1	13.800	72.0	73.1	1.1
13249	LNGLKCG2	13.800	72.0	73.1	1.1
16218	SUNC_G19	13.800	13.1	13.5	0.4
16219	MIL_G3	13.800	47.9	48.6	0.8
16233	SYNC_UE5	13.800	71.2	72.2	1.0
17101	GPEP39	13.800	17.8	18.1	0.3
17209	SYNC_G39	13.800	18.4	18.8	0.3
17210	SYNC_G49	13.800	36.7	37.3	0.7
17233	SYNC_UE4	13.800	12.6	12.9	0.3
18142	BEARCK2	13.800	50.0	50.6	0.6
18206	AUR_GTG2	13.800	74.5	75.5	1.0
18207	AUR_GTG1	13.800	69.8	70.9	1.0
18208	MIL_G5 9	13.800	80.0	81.5	1.5
18209	SYNC_G29	13.800	37.7	38.4	0.7
18210	SYNC_G59	13.800	18.4	18.8	0.3
18218	SUNC G29	13.800	13.1	13.5	0.4
18223	TAR-GN-2	13.800	50.5	51.4	0.9
18264	HORUP7	13.800	77.7	78.7	1.0
18274	MACKAY2	18.000	148.5	150.4	1.9
18302	PRIM GEN	13.800	80.0	81.1	1.1
19142	BEARCK3	13.800	30.0	30.4	0.4
19208	MIL_G6 9	13.800	90.0	91.5	1.5
19209	SYNC_G19	13.800	37.7	38.4	0.7
19210	SYNC_G69	13.800	27.9	28.7	0.8
19264	HORUP6	13.800	14.6	14.8	0.2
19268	HORUP10	13.800	77.7	78.7	1.0
90351	KEEUN3	22.000	450.0	456.0	6.0
90517	SH_UG32	13.800	16.0	16.2	0.2
91521	BIOMASS1	12.500	15.0	15.4	0.4
91522	BIOMASS2	12.500	15.0	15.4	0.4
96083	SHELLCM2	18.000	120.0	122.5	2.5
97247	SURMONT 13	13.800	65.0	66.1	1.1
97275	G-L_CG2	13.800	130.0	132.1	2.1

LOADINGS AT OR ABOVE 100.0 %
OF RATING ARE MARKED WITH '*'

<------- F R O M ------->			<--------- T O --------->		CKT	INCR. TRANS CAPAB	<---------- BASE CASE ----------> RATING A	PRE-SHIFT MW	POST-SHIFT MW	LIMIT CASE MW	DISTR. FACTOR
155	BENALTO4	240.00	9000	DIDSBURY_NEW	240.00	18	1180.9	417	172.5	193.2	417.0*	0.20705

9000	DIDSBURY_NEW	240.00	187	BEDDING1	240.00	18	1182.5	417	130.9	155.1	416.6	0.24194
152	RED DEE4	240.00	988	CROSSF T	240.00	01	1820.3	408	148.4	162.6	316.8	0.14262
123	DIDSBURY	138.00	982	MADDEN T	138.00	80	2015.8	122	56.4	59.6	94.8	0.03255
155	BENALTO4	240.00	135	SUNDANC4	240.00	26	2076.0	466	-155.6	-170.5	-332.2	-0.14953
135	SUNDANC4	240.00	155	BENALTO4	240.00	26	2076.0	466	155.6	170.5	332.2	0.14953
155	BENALTO4	240.00	135	SUNDANC4	240.00	22	2081.9	466	-155.2	-170.2	-331.5	-0.14927
135	SUNDANC4	240.00	155	BENALTO4	240.00	22	2081.9	466	155.2	170.2	331.5	0.14927
128	ELLERSLI	240.00	81	BIGSTON4	240.00	14	2251.9	481	145.3	160.2	321.4	0.14906
121	OLDS 7	138.00	123	DIDSBURY	138.00	80	2264.9	122	31.0	35.0	78.5	0.04017
117	RED DE A	138.00	118	RED DE B	138.00	1	2309.3	121	39.4	42.9	81.1	0.03534
155	BENALTO4	240.00	161	SARCEE 4	240.00	06	2430.2	449	147.1	159.5	293.8	0.12425
155	BENALTO4	240.00	161	SARCEE 4	240.00	28	2433.4	449	146.7	159.1	293.4	0.12423
101	COOKING7	138.00	65	BARDO 7	138.00	74	2463.6	85	31.8	34.0	57.3	0.02158
128	ELLERSLI	240.00	152	RED DEE4	240.00	10	2519.8	466	88.3	103.3	265.3	0.14988
152	RED DEE4	240.00	128	ELLERSLI	240.00	10	2519.8	466	-88.3	-103.3	-265.3	-0.14988
155	BENALTO4	240.00	420	KEEPHIL4	240.00	90	2624.9	466	-159.8	-171.4	-297.5	-0.11667
420	KEEPHIL4	240.00	155	BENALTO4	240.00	90	2624.9	466	159.8	171.4	297.5	0.11667
155	BENALTO4	240.00	420	KEEPHIL4	240.00	03	2659.7	466	-158.4	-169.9	-295.0	-0.11566
420	KEEPHIL4	240.00	155	BENALTO4	240.00	03	2659.7	466	158.4	169.9	295.0	0.11566
20	EDSON 7	138.00	39	CYNTHIA7	138.00	02	2791.5	85	11.0	13.6	42.3	0.02651
81	BIGSTON4	240.00	147	GAETZ 4	240.00	14	2894.6	499	56.4	71.7	237.0	0.15291
147	GAETZ 4	240.00	152	RED DEE4	240.00	14	2937.5	499	79.6	93.9	248.2	0.14278
25	ENTWIST8	69.000	28	MOON LA8	69.000	29	2955.1	29	9.4	10.0	17.2	0.00665
152	RED DEE4	240.00	160	JANET 4	240.00	29	3015.6	481	126.5	138.2	265.3	0.11756
152	RED DEE4	240.00	160	JANET 4	240.00	25	3016.9	481	126.4	138.2	265.2	0.11752
107	SUNDRE 7	138.00	370	SHELL C7	138.00	19	3185.3	120	-33.2	-35.9	-65.4	-0.02726
124	HARMATT7	138.00	957	166L JNC	138.00	66	3283.7	78	-11.5	-8.8	20.7	0.02726
123	DIDSBURY	138.00	957	166L JNC	138.00	66	3475.8	81	13.8	11.0	-18.4	-0.02726
68	N HOLDE7	138.00	65	BARDO 7	138.00	74	3678.0	85	-29.3	-30.8	-47.2	-0.01515
766	VER_TAP	138.00	79	BUFFALO7	138.00	29	3712.4	50	-71.1*	-67.8*	-32.6	0.03257
91	NISKU 7	138.00	93	WETASKI7	138.00	58	3809.7	96	-5.7	-3.1	25.8	0.02671
107	SUNDRE 7	138.00	883	EAGLE TP	138.00	19	4021.2	120	10.4	13.1	42.6	0.02726
124	HARMATT7	138.00	883	EAGLE TP	138.00	19	4338.6	120	-1.7	-4.4	-33.9	-0.02726
118	RED DE B	138.00	120	INNISFA7	138.00	80	4656.7	252	64.9	69.0	112.4	0.04017
120	INNISFA7	138.00	121	OLDS 7	138.00	80	5104.0	252	47.0	51.0	94.4	0.04017
152	RED DEE4	240.00	155	BENALTO4	240.00	00	5345.6	584	-113.6	-122.4	-217.5	-0.08799
76	IPPL ST7	138.00	14001	HEISLERTAP	138.00	1	5367.7	95	-67.0	-64.0	-31.4	0.03018
93	WETASKI7	138.00	95	PONOKA 7	138.00	16	5860.7	252	-6.5	-2.1	45.5	0.04412
374	BIGSTON7	138.00	804	803/804X	138.00	04	6117.0	126	58.8	59.9	71.8	0.01098
93	WETASKI7	138.00	803	803/804N	138.00	04	6139.3	126	-58.6	-59.7	-71.5	-0.01098
95	PONOKA 7	138.00	116	W LACOMB	138.00	80	6435.4	252	-31.9	-27.5	20.2	0.04412
123	DIDSBURY	138.00	9000	DIDSBURY_NEW	240.00	T1	6858.6	200	-39.3	-35.8	1.9	0.03489
115	S RED DE	138.00	119	N RED D7	138.00	80	6867.0	372	-71.9	-76.3	-123.5	-0.04370
99	BENALTO7	138.00	882	SCHRA TP	138.00	48	6884.6	174	45.6	47.4	67.6	0.01865
96	DEVON 7	138.00	365	BUFORD 7	138.00	38	7348.2	121	12.0	13.5	29.6	0.01483
115	S RED DE	138.00	117	RED DE A	138.00	80	7475.2	372	45.3	49.7	96.9	0.04370
370	SHELL C7	138.00	882	SCHRA TP	138.00	48	7534.6	174	-33.4	-35.3	-55.5	-0.01865
105	PIGEON 7	138.00	374	BIGSTON7	138.00	05	7724.3	85	-29.5	-28.0	-12.0	0.01483

862	PV-TAP7	138.00	362	EDGERTO7	138.00	49	7930.1	88	-44.7	-43.1	-25.0	0.01674
356	BON GLE7	138.00	365	BUFORD 7	138.00	38	8368.1	121	3.1	1.6	-14.4	-0.01483
105	PIGEON 7	138.00	356	BON GLE7	138.00	37	9155.9	119	16.8	15.3	-0.8	-0.01483
155	BENALTO4	240.00	995	W.GRN TP	240.00	95	9531.2	466	-61.3	-65.5	-111.4	-0.04246
104	STRACHA7	138.00	890	AMOCO TP	138.00	19	9638.5	120	37.0	37.9	47.2	0.00861
113	BLACKFA7	138.00	116	W LACOMB	138.00	80	9904.0	252	5.7	3.1	-25.0	-0.02602
99	BENALTO7	138.00	155	BENALTO4	240.00	T1	9922.2	200	-50.8	-52.3	-68.6	-0.01504
99	BENALTO7	138.00	155	BENALTO4	240.00	T2	9922.2	200	-50.8	-52.3	-68.6	-0.01504
99	BENALTO7	138.00	100	ROCKY M7	138.00	17	10082.3	112	25.2	26.1	35.4	0.00861
113	BLACKFA7	138.00	119	N RED D7	138.00	80	10443.1	252	-19.8	-17.2	11.0	0.02602
423	KEEPHIL7	138.00	49	KEYSTON7	138.00	34	10818.1	158	57.3	58.3	68.3	0.00930
881	RAVEN TP	138.00	890	AMOCO TP	138.00	19	11883.5	120	-17.7	-18.5	-27.8	-0.00861
370	SHELL C7	138.00	881	RAVEN TP	138.00	19	12276.8	120	-14.3	-15.2	-24.5	-0.00861
70	CAMROSE7	138.00	946	KING TAP	138.00	30	12847.6	85	-2.5	-3.1	-10.1	-0.00642
65	BARDO 7	138.00	946	KING TAP	138.00	30	12986.6	86	2.6	3.2	10.2	0.00642
100	ROCKY M7	138.00	104	STRACHA7	138.00	70	13583.9	120	3.0	3.9	13.2	0.00861
119	N RED D7	138.00	148	GAETZ 7	138.00	68	13789.4	180	-58.1	-59.0	-68.6	-0.00884
119	N RED D7	138.00	148	GAETZ 7	138.00	78	13789.4	180	-58.1	-59.0	-68.6	-0.00884
384	UC PRENT	138.00	388	ELLIS 7	138.00	74	14004.1	154	-2.0	-3.1	-14.9	-0.01085
114	LACOMBE7	138.00	116	W LACOMB	138.00	80	15382.2	252	26.3	24.5	4.9	-0.01809
114	LACOMBE7	138.00	388	ELLIS 7	138.00	1	15855.0	252	-34.8	-33.0	-13.5	0.01809
	INTERFACE SOK						16313.9	2050	-333.1	-343.6	-457.4	-0.10524
70	CAMROSE7	138.00	94	ERVICK 7	138.00	29	16419.9	85	-20.5	-19.8	-12.9	0.00642
803	803/804N	138.00	804	803/804X	138.00	04	17597.3	126	-29.4	-29.9	-35.8	-0.00549
803	803/804N	138.00	804	803/804X	138.00	03	17597.3	126	-29.4	-29.9	-35.8	-0.00549
383	JOFFRE 7	138.00	664	PIPER CR	138.00	55	18008.7	252	62.0	63.1	74.5	0.01055
94	ERVICK 7	138.00	899	TRUE W T	138.00	29	18174.3	85	-31.7	-31.1	-24.2	0.00642
118	RED DE B	138.00	664	PIPER CR	138.00	55	19686.7	252	-44.3	-45.4	-56.8	-0.01055
93	WETASKI7	138.00	899	TRUE W T	138.00	29	19934.4	96	32.0	31.4	24.5	-0.00642
118	RED DE B	138.00	152	RED DEE4	240.00	T2	23357.0	200	1.1	2.0	11.2	0.00852
117	RED DE A	138.00	152	RED DEE4	240.00	T1	23808.4	200	1.1	1.9	11.0	0.00835
148	GAETZ 7	138.00	384	UC PRENT	138.00	59	30477.8	154	-6.2	-6.6	-11.9	-0.00485
388	ELLIS 7	138.00	975	COMINTAP	138.00	84	30702.8	154	-68.3	-67.6	-59.7	0.00724
383	JOFFRE 7	138.00	975	COMINTAP	138.00	84	30795.4	154	69.0	68.2	60.4	-0.00724
152	RED DEE4	240.00	1422	NEVIS 4	240.00	12	31203.2	499	-119.2	-117.2	-95.8	0.01981
383	JOFFRE 7	138.00	384	UC PRENT	138.00	75	36406.0	154	64.5	63.9	57.4	-0.00600
147	GAETZ 4	240.00	148	GAETZ 7	138.00	T2	41543.2	200	-12.0	-11.4	-5.9	0.00510
147	GAETZ 4	240.00	148	GAETZ 7	138.00	T1	42099.1	200	-11.7	-11.2	-5.8	0.00503
148	GAETZ 7	138.00	383	JOFFRE 7	138.00	56	64604.7	154	-67.1	-67.2	-68.7	-0.00135
148	GAETZ 7	138.00	383	JOFFRE 7	138.00	93	64643.3	154	-67.0	-67.2	-68.6	-0.00135
81	BIGSTON4	240.00	374	BIGSTON7	138.00	T1	75133.5	200	88.8	88.4	84.2	-0.00384
99	BENALTO7	138.00	780	SYLV_138	138.00	1	91395.1	252	-4.5	-4.2	-1.2	0.00281
118	RED DE B	138.00	780	SYLV_138	138.00	1	96535.4	252	17.7	17.4	14.4	-0.00279
95	PONOKA 7	138.00	192	NELSON L	138.00	1	>99999.	96	6.4	6.4	6.4	0.00000
97	ECKVILL7	138.00	956	758L JCT	138.00	58	>99999.	85	-12.5	-12.5	-12.5	0.00000
98	RIMBEY 7	138.00	956	758L JCT	138.00	57	>99999.	85	-15.9	-15.9	-15.9	0.00000
99	BENALTO7	138.00	956	758L JCT	138.00	57	>99999.	85	28.5	28.5	28.5	0.00000
122	MADDEN 7	138.00	982	MADDEN T	138.00	89	>99999.	75	-10.1	-10.1	-10.1	0.00000

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   124 HARMATT7    138.00  97619 HGF1        138.00  01 >99999.   174     0.6     0.6     0.6   0.00000
   126 SHELL H7    138.00    957 166L JNC    138.00  66 >99999.    85    -2.2    -2.2    -2.2   0.00000
   142 KINGMAN7    138.00    946 KING TAP    138.00  32 >99999.    86     0.0     0.0     0.0   0.00000
   152 RED DEE4    240.00  93700 RED DEER LUM25.000  T1 >99999.   240     0.0     0.0     0.0   0.00000
   205 AMOCO R7    138.00    257 LIMESTO7    138.00  64 >99999.   121    14.5    14.5    14.5   0.00000
   205 AMOCO R7    138.00    890 AMOCO TP    138.00  19 >99999.   121   -18.8   -18.8   -18.8   0.00000
   354 NOVA C17    138.00    383 JOFFRE 7    138.00  1  >99999.   327   130.9   130.9   130.9   0.00000
   355 NOVA C27    138.00    383 JOFFRE 7    138.00  2  >99999.   327   255.4   255.4   255.4   0.00000
   382 SHELL RA    138.00    881 RAVEN TP    138.00  19 >99999.   121    -3.4    -3.4    -3.4   0.00000
   383 JOFFRE 7    138.00    398 BROOKFLD    138.00  89 >99999.   125     4.7     4.7     4.7   0.00000
   385 SHELL SC    138.00    882 SCHRA TP    138.00  48 >99999.   121   -11.4   -11.4   -11.4   0.00000
   386 SHELL EA    138.00    883 EAGLE TP    138.00  19 >99999.   121    -8.6    -8.6    -8.6   0.00000
   387 COMINCO7    138.00    975 COMINTAP    138.00  84 >99999.   101    -0.3    -0.3    -0.3   0.00000
   440 TRUE WEL    138.00    899 TRUE W T    138.00  29 >99999.    98     0.0     0.0     0.0   0.00000

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     PTI INTERACTIVE POWER SYSTEM SIMULATOR--PSS/E   TUE, MAR 08 2011   9:47
 RED DEER AND DIDSBURY AREA STUDY                                    PAGE 2
 2012 SUMMER LIGHT BASE CASE REVISION 6.5
        *** TLTG EXPORT LIMIT OUTPUT FOR SUBSYSTEM N-OF-SOK     ***

 SOLUTION OF  95 SYSTEM CONDITIONS ATTEMPTED      0 INSOLUBLE SYSTEM CONDITIONS

   INCR.                                                                  PRE- RATING
   TRANS <----------------- LIMITING ELEMENT ----------------->   DISTR.   SHIFT BAS/CNT
   CAPAB <------- F R O M -------> <--------- T O --------->CKT   FACTOR     MW    A/A  <------------------
CONTINGENCY DESCRIPTION ------------------->
   625.0    123 DIDSBURY    138.00    982 MADDEN T    138.00 80  0.07136    77.4  122.0
------------------------------------------------------------------------------
                                                                                    OPEN 9000
[DIDSBURY_NEW240.00] TO 187 [BEDDING1    240.00] CKT 18
   661.7    117 RED DE A    138.00    118 RED DE B    138.00 1   0.04425    91.7  121.0 OPEN 383 [JOFFRE 7
 138.00] TO 664 [PIPER CR    138.00] CKT 55
   840.8    117 RED DE A    138.00    118 RED DE B    138.00 1   0.07246    60.1  121.0 OPEN 147 [GAETZ  4
 240.00] TO 152 [RED DEE4    240.00] CKT 14
   871.2    121 OLDS   7    138.00    123 DIDSBURY    138.00 80  0.07302    58.4  122.0
------------------------------------------------------------------------------
                                                                                    OPEN 155 [BENALTO4
240.00] TO 9000 [DIDSBURY_NEW240.00] CKT 18
   937.3    155 BENALTO4    240.00   9000 DIDSBURY_NEW240.00 18  0.23084   200.6  417.0 OPEN 155 [BENALTO4
 240.00] TO 161 [SARCEE 4    240.00] CKT 06
   937.6    155 BENALTO4    240.00   9000 DIDSBURY_NEW240.00 18  0.23084   200.6  417.0 OPEN 155 [BENALTO4
 240.00] TO 161 [SARCEE 4    240.00] CKT 28
   981.0   9000 DIDSBURY_NEW240.00    187 BEDDING1    240.00 18  0.26447   157.6  417.0 OPEN 155 [BENALTO4
 240.00] TO 161 [SARCEE 4    240.00] CKT 06
   981.3   9000 DIDSBURY_NEW240.00    187 BEDDING1    240.00 18  0.26446   157.5  417.0 OPEN 155 [BENALTO4
 240.00] TO 161 [SARCEE 4    240.00] CKT 28
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  996.8   9000 DIDSBURY_NEW240.00    187 BEDDING1    240.00 18  0.26399   153.8  417.0 OPEN 152 [RED DEE4
240.00] TO 988 [CROSSF T    240.00] CKT 01
  997.5    155 BENALTO4    240.00   9000 DIDSBURY_NEW240.00 18  0.22158   196.0  417.0 OPEN 118 [RED DE B
138.00] TO 120 [INNISFA7    138.00] CKT 80
  999.3    117 RED DE A    138.00    118 RED DE B    138.00 1   0.04425    76.8  121.0 OPEN 118 [RED DE B
138.00] TO 664 [PIPER CR    138.00] CKT 55
 1000.0    155 BENALTO4    240.00   9000 DIDSBURY_NEW240.00 18  0.22541   191.6  417.0 OPEN 152 [RED DEE4
240.00] TO 988 [CROSSF T    240.00] CKT 01
 1017.2    155 BENALTO4    240.00   9000 DIDSBURY_NEW240.00 18  0.22173   191.4  417.0 OPEN 152 [RED DEE4
240.00] TO 155 [BENALTO4    240.00] CKT 00
 1026.8    155 BENALTO4    240.00   9000 DIDSBURY_NEW240.00 18  0.22158   189.5  417.0 OPEN 120 [INNISFA7
138.00] TO 121 [OLDS   7    138.00] CKT 80
 1038.8   9000 DIDSBURY_NEW240.00    187 BEDDING1    240.00 18  0.25838   148.6  417.0 OPEN 152 [RED DEE4
240.00] TO 160 [JANET  4    240.00] CKT 29
 1038.9   9000 DIDSBURY_NEW240.00    187 BEDDING1    240.00 18  0.25838   148.6  417.0 OPEN 152 [RED DEE4
240.00] TO 160 [JANET  4    240.00] CKT 25
 1040.0    155 BENALTO4    240.00   9000 DIDSBURY_NEW240.00 18  0.22084   187.3  417.0 OPEN 152 [RED DEE4
240.00] TO 160 [JANET  4    240.00] CKT 29
 1040.1    155 BENALTO4    240.00   9000 DIDSBURY_NEW240.00 18  0.22083   187.3  417.0 OPEN 152 [RED DEE4
240.00] TO 160 [JANET  4    240.00] CKT 25
 1042.3   9000 DIDSBURY_NEW240.00    187 BEDDING1    240.00 18  0.25417   152.1  417.0 OPEN 123 [DIDSBURY
138.00] TO 982 [MADDEN T    138.00] CKT 80
 1052.9    155 BENALTO4    240.00   9000 DIDSBURY_NEW240.00 18  0.22158   183.7  417.0 OPEN 121 [OLDS   7
138.00] TO 123 [DIDSBURY    138.00] CKT 80
 1068.8*   155 BENALTO4    240.00   9000 DIDSBURY_NEW240.00 18  0.21721   184.8  417.0 OPEN 107 [SUNDRE 7
138.00] TO 370 [SHELL C7    138.00] CKT 19
 1082.3   9000 DIDSBURY_NEW240.00    187 BEDDING1    240.00 18  0.25216   144.1  417.0 OPEN 152 [RED DEE4
240.00] TO 155 [BENALTO4    240.00] CKT 00
 1146.2   9000 DIDSBURY_NEW240.00    187 BEDDING1    240.00 18  0.24710   133.8  417.0 OPEN 147 [GAETZ  4
240.00] TO 152 [RED DEE4    240.00] CKT 14
 1146.8   9000 DIDSBURY_NEW240.00    187 BEDDING1    240.00 18  0.24692   133.8  417.0 OPEN 152 [RED DEE4
240.00] TO 128 [ELLERSLI    240.00] CKT 10
 1158.6*  9000 DIDSBURY_NEW240.00    187 BEDDING1    240.00 18  0.24572   132.3  417.0 OPEN 147 [GAETZ  4
240.00] TO 81 [BIGSTON4    240.00] CKT 14
 1264.8    107 SUNDRE 7    138.00    370 SHELL C7    138.00 19 -0.05222   -53.9  120.0
-------------------------------------------------------------                              OPEN 155 [BENALTO4
240.00] TO 9000 [DIDSBURY_NEW240.00] CKT 18
 1300.1    374 BIGSTON7    138.00    804 803/804X    138.00 04  0.04269    70.5  126.0 OPEN 147 [GAETZ  4
240.00] TO 81 [BIGSTON4    240.00] CKT 14
 1305.8     93 WETASKI7    138.00    803 803/804N    138.00 04 -0.04269   -70.3  126.0 OPEN 147 [GAETZ  4
240.00] TO 81 [BIGSTON4    240.00] CKT 14
 1316.1    124 HARMATT7    138.00    957 166L JNC    138.00 66  0.05222     9.3   78.0
-------------------------------------------------------------                              OPEN 155 [BENALTO4
240.00] TO 9000 [DIDSBURY_NEW240.00] CKT 18
 1325.4    152 RED DEE4    240.00    988 CROSSF T    240.00 01  0.18044   168.8  408.0
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 1660.3    420 KEEPHIL4    240.00    155 BENALTO4    240.00 90  0.15382   210.6  466.0 OPEN 155 [BENALTO4
240.00] TO 420 [KEEPHIL4    240.00] CKT 03
 1678.2    420 KEEPHIL4    240.00    155 BENALTO4    240.00 03  0.15291   209.4  466.0 OPEN 155 [BENALTO4
240.00] TO 420 [KEEPHIL4    240.00] CKT 90
 1678.2    155 BENALTO4    240.00    420 KEEPHIL4    240.00 03 -0.15291  -209.4  466.0 OPEN 155 [BENALTO4
240.00] TO 420 [KEEPHIL4    240.00] CKT 90
 1687.4    155 BENALTO4    240.00    161 SARCEE 4    240.00 06  0.15642   185.1  449.0 OPEN 155 [BENALTO4
240.00] TO 161 [SARCEE 4    240.00] CKT 28
 1689.3    155 BENALTO4    240.00    161 SARCEE 4    240.00 28  0.15641   184.8  449.0 OPEN 155 [BENALTO4
240.00] TO 161 [SARCEE 4    240.00] CKT 06
 1701.2    107 SUNDRE 7    138.00    883 EAGLE TP    138.00 19  0.05222    31.2  120.0
------------------------------------------------------------------                OPEN 155 [BENALTO4
240.00] TO 9000 [DIDSBURY_NEW240.00] CKT 18
 1703.2    155 BENALTO4    240.00    161 SARCEE 4    240.00 06  0.16449   168.8  449.0
------------------------------------------------------------------                OPEN 9000
[DIDSBURY_NEW240.00] TO 187 [BEDDING1    240.00] CKT 18
 1705.7    155 BENALTO4    240.00    161 SARCEE 4    240.00 28  0.16447   168.5  449.0
------------------------------------------------------------------                OPEN 9000
[DIDSBURY_NEW240.00] TO 187 [BEDDING1    240.00] CKT 18
 1713.4    121 OLDS   7    138.00    123 DIDSBURY    138.00 80  0.04773    40.2  122.0 OPEN 107 [SUNDRE 7
138.00] TO 370 [SHELL C7    138.00] CKT 19
 1721.5    152 RED DEE4    240.00    988 CROSSF T    240.00 01  0.14685   155.2  408.0 OPEN 118 [RED DE B
138.00] TO 120 [INNISFA7    138.00] CKT 80
 1726.2    117 RED DE A    138.00    118 RED DE B    138.00 1   0.04279    47.1  121.0 OPEN 152 [RED DEE4
240.00] TO 988 [CROSSF T    240.00] CKT 01
 1734.3    155 BENALTO4    240.00    161 SARCEE 4    240.00 06  0.15793   175.1  449.0
------------------------------------------------------------------                OPEN 155 [BENALTO4
240.00] TO 9000 [DIDSBURY_NEW240.00] CKT 18
 1734.4    152 RED DEE4    240.00    988 CROSSF T    240.00 01  0.14685   153.3  408.0 OPEN 120 [INNISFA7
138.00] TO 121 [OLDS   7    138.00] CKT 80
 1736.8    155 BENALTO4    240.00    161 SARCEE 4    240.00 28  0.15791   174.7  449.0
------------------------------------------------------------------                OPEN 155 [BENALTO4
240.00] TO 9000 [DIDSBURY_NEW240.00] CKT 18
 1738.4    152 RED DEE4    240.00    988 CROSSF T    240.00 01  0.14599   154.2  408.0 OPEN 123 [DIDSBURY
138.00] TO 982 [MADDEN T    138.00] CKT 80
 1745.8*   152 RED DEE4    240.00    988 CROSSF T    240.00 01  0.14685   151.6  408.0 OPEN 121 [OLDS   7
138.00] TO 123 [DIDSBURY    138.00] CKT 80
 1757.4    135 SUNDANC4    240.00    155 BENALTO4    240.00 26  0.16477   176.4  466.0 OPEN 155 [BENALTO4
240.00] TO 420 [KEEPHIL4    240.00] CKT 90
 1757.4    155 BENALTO4    240.00    135 SUNDANC4    240.00 26 -0.16477  -176.4  466.0 OPEN 155 [BENALTO4
240.00] TO 420 [KEEPHIL4    240.00] CKT 90
 1760.7    155 BENALTO4    240.00    135 SUNDANC4    240.00 26 -0.16459  -176.2  466.0 OPEN 155 [BENALTO4
240.00] TO 420 [KEEPHIL4    240.00] CKT 03
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 1760.7    135 SUNDANC4    240.00    155 BENALTO4    240.00 26  0.16459   176.2  466.0 OPEN 155 [BENALTO4
240.00] TO 420 [KEEPHIL4    240.00] CKT 03
 1762.8    155 BENALTO4    240.00    135 SUNDANC4    240.00 22 -0.16448  -176.1  466.0 OPEN 155 [BENALTO4
240.00] TO 420 [KEEPHIL4    240.00] CKT 90
 1762.8    135 SUNDANC4    240.00    155 BENALTO4    240.00 22  0.16448   176.1  466.0 OPEN 155 [BENALTO4
240.00] TO 420 [KEEPHIL4    240.00] CKT 90
 1764.3    117 RED DE A    138.00    118 RED DE B    138.00 1   0.04221    46.5  121.0 OPEN 155 [BENALTO4
240.00] TO 135 [SUNDANC4    240.00] CKT 26
 1765.4    117 RED DE A    138.00    118 RED DE B    138.00 1   0.04220    46.5  121.0 OPEN 155 [BENALTO4
240.00] TO 135 [SUNDANC4    240.00] CKT 22
 1766.1    155 BENALTO4    240.00    135 SUNDANC4    240.00 22 -0.16431  -175.8  466.0 OPEN 155 [BENALTO4
240.00] TO 420 [KEEPHIL4    240.00] CKT 03
 1766.1    135 SUNDANC4    240.00    155 BENALTO4    240.00 22  0.16431   175.8  466.0 OPEN 155 [BENALTO4
240.00] TO 420 [KEEPHIL4    240.00] CKT 03
 1767.4    155 BENALTO4    240.00    135 SUNDANC4    240.00 26 -0.16911  -167.1  466.0 OPEN 152 [RED DEE4
240.00] TO 128 [ELLERSLI    240.00] CKT 10
 1767.4    135 SUNDANC4    240.00    155 BENALTO4    240.00 26  0.16911   167.1  466.0 OPEN 152 [RED DEE4
240.00] TO 128 [ELLERSLI    240.00] CKT 10
 1769.3    123 DIDSBURY    138.00    982 MADDEN T    138.00 80  0.04501    42.4  122.0
-------------------------------------------------------------                                  OPEN 9000
[DIDSBURY_NEW240.00] TO 123 [DIDSBURY    138.00] CKT T1
 1772.7    135 SUNDANC4    240.00    155 BENALTO4    240.00 22  0.16881   166.8  466.0 OPEN 152 [RED DEE4
240.00] TO 128 [ELLERSLI    240.00] CKT 10
 1772.7    155 BENALTO4    240.00    135 SUNDANC4    240.00 22 -0.16881  -166.8  466.0 OPEN 152 [RED DEE4
240.00] TO 128 [ELLERSLI    240.00] CKT 10
 1772.8    121 OLDS   7    138.00    123 DIDSBURY    138.00 80  0.04720    38.3  122.0 OPEN 152 [RED DEE4
240.00] TO 988 [CROSSF T    240.00] CKT 01
 1801.9    101 COOKING7    138.00     65 BARDO  7    138.00 74  0.02755    35.4   85.0 OPEN 152 [RED DEE4
240.00] TO 128 [ELLERSLI    240.00] CKT 10
 1807.7    135 SUNDANC4    240.00    155 BENALTO4    240.00 26  0.16796   162.4  466.0 OPEN 147 [GAETZ  4
240.00] TO 81 [BIGSTON4     240.00] CKT 14
 1807.7    155 BENALTO4    240.00    135 SUNDANC4    240.00 26 -0.16796  -162.4  466.0 OPEN 147 [GAETZ  4
240.00] TO 81 [BIGSTON4     240.00] CKT 14
 1813.0    135 SUNDANC4    240.00    155 BENALTO4    240.00 22  0.16767   162.0  466.0 OPEN 147 [GAETZ  4
240.00] TO 81 [BIGSTON4     240.00] CKT 14
 1813.0    155 BENALTO4    240.00    135 SUNDANC4    240.00 22 -0.16767  -162.0  466.0 OPEN 147 [GAETZ  4
240.00] TO 81 [BIGSTON4     240.00] CKT 14
 1814.3    123 DIDSBURY    138.00    982 MADDEN T    138.00 80  0.03531    57.9  122.0 OPEN 147 [GAETZ  4
240.00] TO 152 [RED DEE4    240.00] CKT 14
 1827.4    117 RED DE A    138.00    118 RED DE B    138.00 1   0.04121    45.7  121.0 OPEN 152 [RED DEE4
240.00] TO 160 [JANET  4    240.00] CKT 29
 1827.5    117 RED DE A    138.00    118 RED DE B    138.00 1   0.04121    45.7  121.0 OPEN 152 [RED DEE4
240.00] TO 160 [JANET  4    240.00] CKT 25
 1835.7    121 OLDS   7    138.00    123 DIDSBURY    138.00 80  0.04738    35.0  122.0 OPEN 147 [GAETZ  4
240.00] TO 152 [RED DEE4    240.00] CKT 14
 1838.6*   117 RED DE A    138.00    118 RED DE B    138.00 1   0.04053    46.5  121.0 OPEN 155 [BENALTO4
240.00] TO 420 [KEEPHIL4    240.00] CKT 90
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 1845.8    121 OLDS   7    138.00    123 DIDSBURY    138.00 80  0.04773    33.9  122.0 OPEN 107 [SUNDRE 7
138.00] TO 883 [EAGLE TP    138.00] CKT 19
 1863.8    121 OLDS   7    138.00    123 DIDSBURY    138.00 80  0.04565    36.9  122.0 OPEN 152 [RED DEE4
240.00] TO 160 [JANET  4    240.00] CKT 29
 1863.9    121 OLDS   7    138.00    123 DIDSBURY    138.00 80  0.04565    36.9  122.0 OPEN 152 [RED DEE4
240.00] TO 160 [JANET  4    240.00] CKT 25
 1866.7    128 ELLERSLI    240.00     81 BIGSTON4    240.00 14  0.16881   165.9  481.0 OPEN 155 [BENALTO4
240.00] TO 135 [SUNDANC4    240.00] CKT 26
 1866.9    124 HARMATT7    138.00    883 EAGLE TP    138.00 19 -0.05222   -22.5  120.0
-------------------------------------------------------------------------------
                                                                                 OPEN 155 [BENALTO4
240.00] TO 9000 [DIDSBURY_NEW240.00] CKT 18
 1867.6    128 ELLERSLI    240.00     81 BIGSTON4    240.00 14  0.16877   165.8  481.0 OPEN 155 [BENALTO4
240.00] TO 135 [SUNDANC4    240.00] CKT 22
 1878.2    128 ELLERSLI    240.00     81 BIGSTON4    240.00 14  0.16622   168.8  481.0 OPEN 155 [BENALTO4
240.00] TO 420 [KEEPHIL4    240.00] CKT 90
 1882.1    128 ELLERSLI    240.00     81 BIGSTON4    240.00 14  0.16602   168.5  481.0 OPEN 155 [BENALTO4
240.00] TO 420 [KEEPHIL4    240.00] CKT 03
 1883.9     20 EDSON  7    138.00     39 CYNTHIA7    138.00 02  0.03474    19.6   85.0 OPEN 155 [BENALTO4
240.00] TO 135 [SUNDANC4    240.00] CKT 26
 1885.6     20 EDSON  7    138.00     39 CYNTHIA7    138.00 02  0.03472    19.5   85.0 OPEN 155 [BENALTO4
240.00] TO 135 [SUNDANC4    240.00] CKT 22
 1886.3    123 DIDSBURY    138.00    982 MADDEN T    138.00 80  0.03387    58.1  122.0 OPEN 152 [RED DEE4
240.00] TO 155 [BENALTO4    240.00] CKT 00
 1894.5    101 COOKING7    138.00     65 BARDO  7    138.00 74  0.01761    51.6   85.0 OPEN 93 [WETASKI7
138.00] TO 899 [TRUE W T    138.00] CKT 29
 1896.1    121 OLDS   7    138.00    123 DIDSBURY    138.00 80  0.04773    31.5  122.0 OPEN 124 [HARMATT7
138.00] TO 883 [EAGLE TP    138.00] CKT 19
 1904.8    135 SUNDANC4    240.00    155 BENALTO4    240.00 26  0.15718   166.6  466.0 OPEN 155 [BENALTO4
240.00] TO 995 [W.GRN TP    240.00] CKT 95
 1904.8    155 BENALTO4    240.00    135 SUNDANC4    240.00 26 -0.15718  -166.6  466.0 OPEN 155 [BENALTO4
240.00] TO 995 [W.GRN TP    240.00] CKT 95
 1905.1    101 COOKING7    138.00     65 BARDO  7    138.00 74  0.01761    51.5   85.0 OPEN 94 [ERVICK 7
138.00] TO 899 [TRUE W T    138.00] CKT 29
 1910.5    135 SUNDANC4    240.00    155 BENALTO4    240.00 22  0.15690   166.2  466.0 OPEN 155 [BENALTO4
240.00] TO 995 [W.GRN TP    240.00] CKT 95
 1910.5    155 BENALTO4    240.00    135 SUNDANC4    240.00 22 -0.15690  -166.2  466.0 OPEN 155 [BENALTO4
240.00] TO 995 [W.GRN TP    240.00] CKT 95
 1919.7    121 OLDS   7    138.00    123 DIDSBURY    138.00 80  0.04335    38.8  122.0 OPEN 99 [BENALTO7
138.00] TO 882 [SCHRA TP    138.00] CKT 48
 1931.7    128 ELLERSLI    240.00    152 RED DEE4    240.00 10  0.18819   102.5  466.0 OPEN 147 [GAETZ  4
240.00] TO 81 [BIGSTON4     240.00] CKT 14
 1931.7    152 RED DEE4    240.00    128 ELLERSLI    240.00 10 -0.18819  -102.5  466.0 OPEN 147 [GAETZ  4
240.00] TO 81 [BIGSTON4     240.00] CKT 14
 1944.1*   123 DIDSBURY    138.00    982 MADDEN T    138.00 80  0.03255    58.7  122.0 OPEN 205 [AMOCO R7
138.00] TO 890 [AMOCO TP    138.00] CKT 19
 1948.8    155 BENALTO4    240.00    135 SUNDANC4    240.00 26 -0.15712  -159.8  466.0 OPEN 147 [GAETZ  4
240.00] TO 152 [RED DEE4    240.00] CKT 14
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  1948.8    135 SUNDANC4    240.00    155 BENALTO4    240.00 26  0.15712   159.8  466.0 OPEN 147 [GAETZ  4
 240.00] TO 152 [RED DEE4    240.00] CKT 14
  1952.7    101 COOKING7    138.00     65 BARDO  7    138.00 74  0.02309    39.9   85.0 OPEN 374 [BIGSTON7
 138.00] TO 804 [803/804X    138.00] CKT 04
  1954.2    101 COOKING7    138.00     65 BARDO  7    138.00 74  0.02309    39.9   85.0 OPEN 93 [WETASKI7
138.00] TO 803 [803/804N    138.00] CKT 04
  1954.5    135 SUNDANC4    240.00    155 BENALTO4    240.00 22  0.15684   159.5  466.0 OPEN 147 [GAETZ  4
 240.00] TO 152 [RED DEE4    240.00] CKT 14
  1954.5    155 BENALTO4    240.00    135 SUNDANC4    240.00 22 -0.15684  -159.5  466.0 OPEN 147 [GAETZ  4
 240.00] TO 152 [RED DEE4    240.00] CKT 14
  1967.3*   121 OLDS   7    138.00    123 DIDSBURY    138.00 80  0.04335    36.7  122.0 OPEN 370 [SHELL C7
 138.00] TO 882 [SCHRA TP    138.00] CKT 48
  1983.2    128 ELLERSLI    240.00     81 BIGSTON4    240.00 14  0.16129   161.1  481.0 OPEN 152 [RED DEE4
 240.00] TO 155 [BENALTO4    240.00] CKT 00
  1984.2    155 BENALTO4    240.00    161 SARCEE 4    240.00 06  0.14257   166.1  449.0 OPEN 152 [RED DEE4
 240.00] TO 988 [CROSSF T    240.00] CKT 01
  1987.1    155 BENALTO4    240.00    161 SARCEE 4    240.00 28  0.14255   165.7  449.0 OPEN 152 [RED DEE4
 240.00] TO 988 [CROSSF T    240.00] CKT 01
  2032.6    135 SUNDANC4    240.00    155 BENALTO4    240.00 26  0.15164   157.8  466.0 OPEN 152 [RED DEE4
 240.00] TO 988 [CROSSF T    240.00] CKT 01
  2032.6    155 BENALTO4    240.00    135 SUNDANC4    240.00 26 -0.15164  -157.8  466.0 OPEN 152 [RED DEE4
 240.00] TO 988 [CROSSF T    240.00] CKT 01
  2038.4    135 SUNDANC4    240.00    155 BENALTO4    240.00 22  0.15138   157.4  466.0 OPEN 152 [RED DEE4
 240.00] TO 988 [CROSSF T    240.00] CKT 01
  2038.4    155 BENALTO4    240.00    135 SUNDANC4    240.00 22 -0.15138  -157.4  466.0 OPEN 152 [RED DEE4
 240.00] TO 988 [CROSSF T    240.00] CKT 01
  2040.1    135 SUNDANC4    240.00    155 BENALTO4    240.00 26  0.15361   152.6  466.0 OPEN 95 [PONOKA 7
138.00] TO 116 [W LACOMB    138.00] CKT 80
  2040.1    155 BENALTO4    240.00    135 SUNDANC4    240.00 26 -0.15361  -152.6  466.0 OPEN 95 [PONOKA 7
138.00] TO 116 [W LACOMB    138.00] CKT 80
  2041.1*   155 BENALTO4    240.00    135 SUNDANC4    240.00 26 -0.15121  -157.4  466.0 OPEN 152 [RED DEE4
 240.00] TO 160 [JANET  4    240.00] CKT 29
  2041.1*   135 SUNDANC4    240.00    155 BENALTO4    240.00 26  0.15121   157.4  466.0 OPEN 152 [RED DEE4
 240.00] TO 160 [JANET  4    240.00] CKT 29
  2041.8    101 COOKING7    138.00     65 BARDO  7    138.00 74  0.02453    34.9   85.0 OPEN 155 [BENALTO4
 240.00] TO 135 [SUNDANC4    240.00] CKT 26
  2042.7    101 COOKING7    138.00     65 BARDO  7    138.00 74  0.02452    34.9   85.0 OPEN 155 [BENALTO4
 240.00] TO 135 [SUNDANC4    240.00] CKT 22
  2043.1    101 COOKING7    138.00     65 BARDO  7    138.00 74  0.02115    41.8   85.0 OPEN 81 [BIGSTON4
240.00] TO 374 [BIGSTON7    138.00] CKT T1
  2045.8    155 BENALTO4    240.00    135 SUNDANC4    240.00 22 -0.15334  -152.3  466.0 OPEN 95 [PONOKA 7
138.00] TO 116 [W LACOMB    138.00] CKT 80
  2045.8    135 SUNDANC4    240.00    155 BENALTO4    240.00 22  0.15334   152.3  466.0 OPEN 95 [PONOKA 7
138.00] TO 116 [W LACOMB    138.00] CKT 80
  2046.9*   135 SUNDANC4    240.00    155 BENALTO4    240.00 22  0.15094   157.0  466.0 OPEN 152 [RED DEE4
 240.00] TO 160 [JANET  4    240.00] CKT 29
  2046.9*   155 BENALTO4    240.00    135 SUNDANC4    240.00 22 -0.15094  -157.0  466.0 OPEN 152 [RED DEE4
 240.00] TO 160 [JANET  4    240.00] CKT 29
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 2050.1    155 BENALTO4    240.00    161 SARCEE 4    240.00 06  0.13935   163.3  449.0 OPEN 152 [RED DEE4
240.00] TO 160 [JANET  4    240.00] CKT 29
 2050.3    155 BENALTO4    240.00    161 SARCEE 4    240.00 06  0.13935   163.3  449.0 OPEN 152 [RED DEE4
240.00] TO 160 [JANET  4    240.00] CKT 25
 2053.0    155 BENALTO4    240.00    161 SARCEE 4    240.00 28  0.13934   162.9  449.0 OPEN 152 [RED DEE4
240.00] TO 160 [JANET  4    240.00] CKT 29
 2053.2    155 BENALTO4    240.00    161 SARCEE 4    240.00 28  0.13933   162.9  449.0 OPEN 152 [RED DEE4
240.00] TO 160 [JANET  4    240.00] CKT 25
 2058.1    101 COOKING7    138.00     65 BARDO  7    138.00 74  0.02413    35.3   85.0 OPEN 155 [BENALTO4
240.00] TO 420 [KEEPHIL4    240.00] CKT 90
 2062.2*   101 COOKING7    138.00     65 BARDO  7    138.00 74  0.02410    35.3   85.0 OPEN 155 [BENALTO4
240.00] TO 420 [KEEPHIL4    240.00] CKT 03
 2067.7     25 ENTWIST8    69.000     28 MOON LA8    69.000 29  0.00854    11.3   29.0 OPEN 155 [BENALTO4
240.00] TO 135 [SUNDANC4    240.00] CKT 26
 2069.4     25 ENTWIST8    69.000     28 MOON LA8    69.000 29  0.00854    11.3   29.0 OPEN 155 [BENALTO4
240.00] TO 135 [SUNDANC4    240.00] CKT 22
 2073.3    107 SUNDRE 7    138.00    370 SHELL C7    138.00 19 -0.03548   -46.4  120.0 OPEN 118 [RED DE B
138.00] TO 120 [INNISFA7    138.00] CKT 80
 2073.9    128 ELLERSLI    240.00     81 BIGSTON4    240.00 14  0.15819   152.9  481.0
-----------------------------------------------------------------                        OPEN 155 [BENALTO4
240.00] TO 9000 [DIDSBURY_NEW240.00] CKT 18
 2085.6    147 GAETZ  4    240.00    152 RED DEE4    240.00 14  0.18824   106.4  499.0 OPEN 152 [RED DEE4
240.00] TO 128 [ELLERSLI    240.00] CKT 10
 2086.0    155 BENALTO4    240.00    420 KEEPHIL4    240.00 90 -0.13678  -180.7  466.0 OPEN 155 [BENALTO4
240.00] TO 135 [SUNDANC4    240.00] CKT 26
 2086.0    420 KEEPHIL4    240.00    155 BENALTO4    240.00 90  0.13678   180.7  466.0 OPEN 155 [BENALTO4
240.00] TO 135 [SUNDANC4    240.00] CKT 26
 2087.1    420 KEEPHIL4    240.00    155 BENALTO4    240.00 90  0.13673   180.6  466.0 OPEN 155 [BENALTO4
240.00] TO 135 [SUNDANC4    240.00] CKT 22
 2087.1    155 BENALTO4    240.00    420 KEEPHIL4    240.00 90 -0.13673  -180.6  466.0 OPEN 155 [BENALTO4
240.00] TO 135 [SUNDANC4    240.00] CKT 22
 2097.0    152 RED DEE4    240.00    128 ELLERSLI    240.00 10 -0.17008  -109.3  466.0 OPEN 155 [BENALTO4
240.00] TO 135 [SUNDANC4    240.00] CKT 26
 2097.0    128 ELLERSLI    240.00    152 RED DEE4    240.00 10  0.17008   109.3  466.0 OPEN 155 [BENALTO4
240.00] TO 135 [SUNDANC4    240.00] CKT 26
 2097.9    152 RED DEE4    240.00    128 ELLERSLI    240.00 10 -0.17003  -109.3  466.0 OPEN 155 [BENALTO4
240.00] TO 135 [SUNDANC4    240.00] CKT 22
 2097.9    128 ELLERSLI    240.00    152 RED DEE4    240.00 10  0.17003   109.3  466.0 OPEN 155 [BENALTO4
240.00] TO 135 [SUNDANC4    240.00] CKT 22
 2106.9    155 BENALTO4    240.00    161 SARCEE 4    240.00 06  0.13606   162.3  449.0 OPEN 152 [RED DEE4
240.00] TO 155 [BENALTO4    240.00] CKT 00
 2109.9    155 BENALTO4    240.00    161 SARCEE 4    240.00 28  0.13605   161.9  449.0 OPEN 152 [RED DEE4
240.00] TO 155 [BENALTO4    240.00] CKT 00
 2115.7    155 BENALTO4    240.00    420 KEEPHIL4    240.00 03 -0.13559  -179.1  466.0 OPEN 155 [BENALTO4
240.00] TO 135 [SUNDANC4    240.00] CKT 26
 2115.7    420 KEEPHIL4    240.00    155 BENALTO4    240.00 03  0.13559   179.1  466.0 OPEN 155 [BENALTO4
240.00] TO 135 [SUNDANC4    240.00] CKT 26
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 2116.9    420 KEEPHIL4    240.00    155 BENALTO4    240.00 03  0.13555   179.1  466.0 OPEN 155 [BENALTO4
240.00] TO 135 [SUNDANC4    240.00] CKT 22
 2116.9    155 BENALTO4    240.00    420 KEEPHIL4    240.00 03 -0.13555  -179.1  466.0 OPEN 155 [BENALTO4
240.00] TO 135 [SUNDANC4    240.00] CKT 22
 2137.1    420 KEEPHIL4    240.00    155 BENALTO4    240.00 90  0.13754   172.1  466.0 OPEN 152 [RED DEE4
240.00] TO 128 [ELLERSLI    240.00] CKT 10
 2137.1    155 BENALTO4    240.00    420 KEEPHIL4    240.00 90 -0.13754  -172.1  466.0 OPEN 152 [RED DEE4
240.00] TO 128 [ELLERSLI    240.00] CKT 10
 2137.9    152 RED DEE4    240.00    128 ELLERSLI    240.00 10 -0.16620  -110.7  466.0 OPEN 155 [BENALTO4
240.00] TO 420 [KEEPHIL4    240.00] CKT 90
 2137.9    128 ELLERSLI    240.00    152 RED DEE4    240.00 10  0.16620   110.7  466.0 OPEN 155 [BENALTO4
240.00] TO 420 [KEEPHIL4    240.00] CKT 90
 2140.1    128 ELLERSLI    240.00     81 BIGSTON4    240.00 14  0.15372   152.0  481.0 OPEN 155 [BENALTO4
240.00] TO 995 [W.GRN TP    240.00] CKT 95
 2141.0     81 BIGSTON4    240.00    147 GAETZ  4    240.00 14  0.19511    81.3  499.0 OPEN 152 [RED DEE4
240.00] TO 128 [ELLERSLI    240.00] CKT 10
 2141.9    152 RED DEE4    240.00    128 ELLERSLI    240.00 10 -0.16601  -110.4  466.0 OPEN 155 [BENALTO4
240.00] TO 420 [KEEPHIL4    240.00] CKT 03
 2141.9    128 ELLERSLI    240.00    152 RED DEE4    240.00 10  0.16601   110.4  466.0 OPEN 155 [BENALTO4
240.00] TO 420 [KEEPHIL4    240.00] CKT 03
 2147.6    128 ELLERSLI    240.00     81 BIGSTON4    240.00 14  0.15485   148.4  481.0
-------------------------------------------------------------                          OPEN 9000
[DIDSBURY_NEW240.00] TO 187 [BEDDING1    240.00] CKT 18
 2147.9*   128 ELLERSLI    240.00     81 BIGSTON4    240.00 14  0.14906   160.8  481.0 OPEN 355 [NOVA C27
138.00] TO 383 [JOFFRE 7    138.00] CKT 2
 2148.8    124 HARMATT7    138.00    957 166L JNC    138.00 66  0.03548     1.8   78.0 OPEN 118 [RED DE B
138.00] TO 120 [INNISFA7    138.00] CKT 80
 2166.6    420 KEEPHIL4    240.00    155 BENALTO4    240.00 03  0.13635   170.6  466.0 OPEN 152 [RED DEE4
240.00] TO 128 [ELLERSLI    240.00] CKT 10
 2166.6    155 BENALTO4    240.00    420 KEEPHIL4    240.00 03 -0.13635  -170.6  466.0 OPEN 152 [RED DEE4
240.00] TO 128 [ELLERSLI    240.00] CKT 10
 2170.1    152 RED DEE4    240.00    128 ELLERSLI    240.00 10 -0.16910   -99.0  466.0 OPEN 147 [GAETZ  4
240.00] TO 152 [RED DEE4    240.00] CKT 14
 2170.1    128 ELLERSLI    240.00    152 RED DEE4    240.00 10  0.16910    99.0  466.0 OPEN 147 [GAETZ  4
240.00] TO 152 [RED DEE4    240.00] CKT 14
 2176.9    107 SUNDRE 7    138.00    370 SHELL C7    138.00 19 -0.03548   -42.8  120.0 OPEN 120 [INNISFA7
138.00] TO 121 [OLDS   7    138.00] CKT 80
 2183.8    152 RED DEE4    240.00    160 JANET  4    240.00 29  0.14789   158.0  481.0 OPEN 152 [RED DEE4
240.00] TO 988 [CROSSF T    240.00] CKT 01
 2184.8    152 RED DEE4    240.00    160 JANET  4    240.00 25  0.14784   158.0  481.0 OPEN 152 [RED DEE4
240.00] TO 988 [CROSSF T    240.00] CKT 01
 2187.1    118 RED DE B    138.00    120 INNISFA7    138.00 80  0.07302    92.3  252.0
-------------------------------------------------------------                      OPEN 155 [BENALTO4
240.00] TO 9000 [DIDSBURY_NEW240.00] CKT 18
 2201.4    128 ELLERSLI    240.00    152 RED DEE4    240.00 10  0.16354   106.0  466.0 OPEN 152 [RED DEE4
240.00] TO 155 [BENALTO4    240.00] CKT 00
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  2201.4    152 RED DEE4    240.00    128 ELLERSLI    240.00 10 -0.16354  -106.0  466.0 OPEN 152 [RED DEE4
 240.00] TO 155 [BENALTO4    240.00] CKT 00
  2205.1    420 KEEPHIL4    240.00    155 BENALTO4    240.00 90  0.13570   166.8  466.0 OPEN 147 [GAETZ  4
 240.00] TO 81 [BIGSTON4    240.00] CKT 14
  2205.1    155 BENALTO4    240.00    420 KEEPHIL4    240.00 90 -0.13570  -166.8  466.0 OPEN 147 [GAETZ  4
 240.00] TO 81 [BIGSTON4    240.00] CKT 14
  2235.1    420 KEEPHIL4    240.00    155 BENALTO4    240.00 03  0.13452   165.3  466.0 OPEN 147 [GAETZ  4
 240.00] TO 81 [BIGSTON4    240.00] CKT 14
  2235.1    155 BENALTO4    240.00    420 KEEPHIL4    240.00 03 -0.13452  -165.3  466.0 OPEN 147 [GAETZ  4
 240.00] TO 81 [BIGSTON4    240.00] CKT 14
  2247.6    152 RED DEE4    240.00    160 JANET  4    240.00 29  0.14994   144.0  481.0
-------------------------------------------------------------------                    OPEN 9000
[DIDSBURY_NEW240.00] TO 187 [BEDDING1    240.00] CKT 18
  2248.6    152 RED DEE4    240.00    160 JANET  4    240.00 25  0.14989   144.0  481.0
-------------------------------------------------------------------                    OPEN 9000
[DIDSBURY_NEW240.00] TO 187 [BEDDING1    240.00] CKT 18
  2252.4    124 HARMATT7    138.00    957 166L JNC    138.00 66  0.03548    -1.9   78.0 OPEN 120 [INNISFA7
 138.00] TO 121 [OLDS   7    138.00] CKT 80
  2268.8    107 SUNDRE 7    138.00    370 SHELL C7    138.00 19 -0.03548   -39.5  120.0 OPEN 121 [OLDS   7
 138.00] TO 123 [DIDSBURY    138.00] CKT 80
  2290.4    152 RED DEE4    240.00    160 JANET  4    240.00 29  0.14289   153.7  481.0 OPEN 152 [RED DEE4
 240.00] TO 160 [JANET  4    240.00] CKT 25
  2291.2    152 RED DEE4    240.00    160 JANET  4    240.00 25  0.14285   153.7  481.0 OPEN 152 [RED DEE4
 240.00] TO 160 [JANET  4    240.00] CKT 29
  2292.3    155 BENALTO4    240.00    161 SARCEE 4    240.00 06  0.12850   154.4  449.0 OPEN 123 [DIDSBURY
 138.00] TO 982 [MADDEN T    138.00] CKT 80
  2295.5    155 BENALTO4    240.00    161 SARCEE 4    240.00 28  0.12849   154.1  449.0 OPEN 123 [DIDSBURY
 138.00] TO 982 [MADDEN T    138.00] CKT 80
  2296.5    123 DIDSBURY    138.00    957 166L JNC    138.00 66 -0.03548     0.5   81.0 OPEN 118 [RED DE B
 138.00] TO 120 [INNISFA7    138.00] CKT 80
  2302.8    155 BENALTO4    240.00    161 SARCEE 4    240.00 06  0.12972   150.3  449.0 OPEN 152 [RED DEE4
 240.00] TO 128 [ELLERSLI    240.00] CKT 10
  2305.9    155 BENALTO4    240.00    161 SARCEE 4    240.00 28  0.12971   149.9  449.0 OPEN 152 [RED DEE4
 240.00] TO 128 [ELLERSLI    240.00] CKT 10
  2326.1*   155 BENALTO4    240.00    161 SARCEE 4    240.00 06  0.12904   148.8  449.0 OPEN 147 [GAETZ  4
 240.00] TO 81 [BIGSTON4    240.00] CKT 14
  2329.2*   155 BENALTO4    240.00    161 SARCEE 4    240.00 28  0.12903   148.5  449.0 OPEN 147 [GAETZ  4
 240.00] TO 81 [BIGSTON4    240.00] CKT 14
  2330.3    115 S RED DE    138.00    119 N RED D7    138.00 80 -0.11235  -110.2  372.0 OPEN 147 [GAETZ  4
 240.00] TO 152 [RED DEE4    240.00] CKT 14
  2344.4    124 HARMATT7    138.00    957 166L JNC    138.00 66  0.03548    -5.2   78.0 OPEN 121 [OLDS   7
 138.00] TO 123 [DIDSBURY    138.00] CKT 80
  2354.9    128 ELLERSLI    240.00    152 RED DEE4    240.00 10  0.15763    94.8  466.0
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240.00] TO 9000 [DIDSBURY_NEW240.00] CKT 18
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  2354.9    152 RED DEE4    240.00    128 ELLERSLI    240.00 10 -0.15763   -94.8  466.0
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                                                                                OPEN 155 [BENALTO4
240.00] TO 9000 [DIDSBURY_NEW240.00] CKT 18
  2373.3    147 GAETZ  4    240.00    152 RED DEE4    240.00 14  0.16282   112.6  499.0 OPEN 115 [S RED DE
 138.00] TO 119 [N RED D7    138.00] CKT 80
  2375.8    152 RED DEE4    240.00    128 ELLERSLI    240.00 10 -0.15728   -92.3  466.0
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                                                                                OPEN 9000
[DIDSBURY_NEW240.00] TO 187 [BEDDING1    240.00] CKT 18
  2375.8    128 ELLERSLI    240.00    152 RED DEE4    240.00 10  0.15728    92.3  466.0
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                                                                                OPEN 9000
[DIDSBURY_NEW240.00] TO 187 [BEDDING1    240.00] CKT 18
  2375.9     91 NISKU  7    138.00     93 WETASKI7    138.00 58  0.03166    20.8   96.0 OPEN 374 [BIGSTON7
 138.00] TO 804 [803/804X    138.00] CKT 04
  2379.5     91 NISKU  7    138.00     93 WETASKI7    138.00 58  0.03166    20.7   96.0 OPEN 93 [WETASKI7
138.00] TO 803 [803/804N    138.00] CKT 04
  2384.6     68 N HOLDE7    138.00     65 BARDO  7    138.00 74 -0.02227   -31.9   85.0 OPEN 147 [GAETZ  4
 240.00] TO 81 [BIGSTON4    240.00] CKT 14
  2386.1    155 BENALTO4    240.00    420 KEEPHIL4    240.00 90 -0.12394  -170.3  466.0 OPEN 155 [BENALTO4
 240.00] TO 995 [W.GRN TP    240.00] CKT 95
  2386.1    420 KEEPHIL4    240.00    155 BENALTO4    240.00 90  0.12394   170.3  466.0 OPEN 155 [BENALTO4
 240.00] TO 995 [W.GRN TP    240.00] CKT 95
  2397.5    147 GAETZ  4    240.00    152 RED DEE4    240.00 14  0.16367   106.6  499.0 OPEN 152 [RED DEE4
 240.00] TO 155 [BENALTO4    240.00] CKT 00
  2398.2*   152 RED DEE4    240.00    128 ELLERSLI    240.00 10 -0.15463   -95.2  466.0 OPEN 155 [BENALTO4
 240.00] TO 995 [W.GRN TP    240.00] CKT 95
  2398.2*   128 ELLERSLI    240.00    152 RED DEE4    240.00 10  0.15463    95.2  466.0 OPEN 155 [BENALTO4
 240.00] TO 995 [W.GRN TP    240.00] CKT 95
  2400.1    123 DIDSBURY    138.00    957 166L JNC    138.00 66 -0.03548     4.2   81.0 OPEN 120 [INNISFA7
 138.00] TO 121 [OLDS   7    138.00] CKT 80
  2405.1    119 N RED D7    138.00    148 GAETZ  7    138.00 78 -0.04279   -77.1  180.0 OPEN 147 [GAETZ  4
 240.00] TO 152 [RED DEE4    240.00] CKT 14
  2405.1    119 N RED D7    138.00    148 GAETZ  7    138.00 68 -0.04279   -77.1  180.0 OPEN 147 [GAETZ  4
 240.00] TO 152 [RED DEE4    240.00] CKT 14
  2418.9    155 BENALTO4    240.00    420 KEEPHIL4    240.00 03 -0.12287  -168.8  466.0 OPEN 155 [BENALTO4
 240.00] TO 995 [W.GRN TP    240.00] CKT 95
  2418.9    420 KEEPHIL4    240.00    155 BENALTO4    240.00 03  0.12287   168.8  466.0 OPEN 155 [BENALTO4
 240.00] TO 995 [W.GRN TP    240.00] CKT 95
  2420.3    152 RED DEE4    240.00    160 JANET  4    240.00 29  0.13907   144.4  481.0
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                                                                                OPEN 155 [BENALTO4
240.00] TO 9000 [DIDSBURY_NEW240.00] CKT 18
  2420.4     81 BIGSTON4    240.00    147 GAETZ  4    240.00 14  0.17386    78.2  499.0 OPEN 155 [BENALTO4
 240.00] TO 135 [SUNDANC4    240.00] CKT 26
  2421.2    152 RED DEE4    240.00    155 BENALTO4    240.00 00 -0.16706  -179.5  584.0
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  2546.0    147 GAETZ  4    240.00    152 RED DEE4    240.00 14  0.15705    99.2  499.0 OPEN 155 [BENALTO4
 240.00] TO 420 [KEEPHIL4    240.00] CKT 90
  2550.0    147 GAETZ  4    240.00    152 RED DEE4    240.00 14  0.15689    98.9  499.0 OPEN 155 [BENALTO4
 240.00] TO 420 [KEEPHIL4    240.00] CKT 03
  2556.7    420 KEEPHIL4    240.00    155 BENALTO4    240.00 90  0.11888   162.1  466.0 OPEN 152 [RED DEE4
 240.00] TO 988 [CROSSF T    240.00] CKT 01
  2556.7    155 BENALTO4    240.00    420 KEEPHIL4    240.00 90 -0.11888  -162.1  466.0 OPEN 152 [RED DEE4
 240.00] TO 988 [CROSSF T    240.00] CKT 01
  2564.0     81 BIGSTON4    240.00    147 GAETZ  4    240.00 14  0.16602    73.3  499.0 OPEN 152 [RED DEE4
 240.00] TO 155 [BENALTO4    240.00] CKT 00
  2565.5    155 BENALTO4    240.00    420 KEEPHIL4    240.00 90 -0.12043  -157.0  466.0 OPEN 95 [PONOKA 7
138.00] TO 116 [W LACOMB    138.00] CKT 80
  2565.5    420 KEEPHIL4    240.00    155 BENALTO4    240.00 90  0.12043   157.0  466.0 OPEN 95 [PONOKA 7
138.00] TO 116 [W LACOMB    138.00] CKT 80
  2566.9    115 S RED DE    138.00    117 RED DE A    138.00 80  0.11235    83.6  372.0 OPEN 147 [GAETZ  4
 240.00] TO 152 [RED DEE4    240.00] CKT 14
  2570.0*   155 BENALTO4    240.00    420 KEEPHIL4    240.00 90 -0.11843  -161.6  466.0 OPEN 152 [RED DEE4
 240.00] TO 160 [JANET  4    240.00] CKT 29
  2570.0*   420 KEEPHIL4    240.00    155 BENALTO4    240.00 90  0.11843   161.6  466.0 OPEN 152 [RED DEE4
 240.00] TO 160 [JANET  4    240.00] CKT 29
  2590.9    420 KEEPHIL4    240.00    155 BENALTO4    240.00 03  0.11785   160.7  466.0 OPEN 152 [RED DEE4
 240.00] TO 988 [CROSSF T    240.00] CKT 01
  2590.9    155 BENALTO4    240.00    420 KEEPHIL4    240.00 03 -0.11785  -160.7  466.0 OPEN 152 [RED DEE4
 240.00] TO 988 [CROSSF T    240.00] CKT 01
  2599.3    155 BENALTO4    240.00    420 KEEPHIL4    240.00 03 -0.11939  -155.7  466.0 OPEN 95 [PONOKA 7
138.00] TO 116 [W LACOMB    138.00] CKT 80
  2599.3    420 KEEPHIL4    240.00    155 BENALTO4    240.00 03  0.11939   155.7  466.0 OPEN 95 [PONOKA 7
138.00] TO 116 [W LACOMB    138.00] CKT 80
  2604.3*   155 BENALTO4    240.00    420 KEEPHIL4    240.00 03 -0.11740  -160.2  466.0 OPEN 152 [RED DEE4
 240.00] TO 160 [JANET  4    240.00] CKT 29
  2604.3*   420 KEEPHIL4    240.00    155 BENALTO4    240.00 03  0.11740   160.2  466.0 OPEN 152 [RED DEE4
 240.00] TO 160 [JANET  4    240.00] CKT 29
  2627.5     81 BIGSTON4    240.00    147 GAETZ  4    240.00 14  0.16938    54.0  499.0 OPEN 93 [WETASKI7
138.00] TO 95 [PONOKA 7    138.00] CKT 16
  2648.3     68 N HOLDE7    138.00     65 BARDO  7    138.00 74 -0.01997   -32.1   85.0 OPEN 152 [RED DEE4
 240.00] TO 128 [ELLERSLI    240.00] CKT 10
  2670.5*   147 GAETZ  4    240.00    152 RED DEE4    240.00 14  0.15167    94.0  499.0 OPEN 118 [RED DE B
 138.00] TO 120 [INNISFA7    138.00] CKT 80
  2672.5    107 SUNDRE 7    138.00    370 SHELL C7    138.00 19 -0.03089   -37.4  120.0 OPEN 155 [BENALTO4
 240.00] TO 161 [SARCEE 4    240.00] CKT 06
  2672.9    107 SUNDRE 7    138.00    370 SHELL C7    138.00 19 -0.03089   -37.4  120.0 OPEN 155 [BENALTO4
 240.00] TO 161 [SARCEE 4    240.00] CKT 28
  2683.4     81 BIGSTON4    240.00    147 GAETZ  4    240.00 14  0.16938    44.5  499.0 OPEN 95 [PONOKA 7
138.00] TO 116 [W LACOMB    138.00] CKT 80
  2699.0     81 BIGSTON4    240.00    147 GAETZ  4    240.00 14  0.16137    63.5  499.0
------------------------------------------------------------                                OPEN 155 [BENALTO4
240.00] TO 9000 [DIDSBURY_NEW240.00] CKT 18
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  2715.3*    81 BIGSTON4    240.00    147 GAETZ  4    240.00 14  0.15156    87.5  499.0 OPEN 81 [BIGSTON4
240.00] TO 374 [BIGSTON7    138.00] CKT T1
  2715.6    107 SUNDRE 7    138.00    883 EAGLE TP    138.00 19  0.03548    23.6  120.0 OPEN 118 [RED DE B
 138.00] TO 120 [INNISFA7    138.00] CKT 80
  2749.2    152 RED DEE4    240.00    155 BENALTO4    240.00 00 -0.15743  -151.2  584.0
-------------------------------------------------------------                                  OPEN 9000
[DIDSBURY_NEW240.00] TO 187 [BEDDING1    240.00] CKT 18
  2759.3    124 HARMATT7    138.00    957 166L JNC    138.00 66  0.03089    -7.2   78.0 OPEN 155 [BENALTO4
 240.00] TO 161 [SARCEE 4    240.00] CKT 06
  2759.7    124 HARMATT7    138.00    957 166L JNC    138.00 66  0.03089    -7.2   78.0 OPEN 155 [BENALTO4
 240.00] TO 161 [SARCEE 4    240.00] CKT 28
  2779.1     68 N HOLDE7    138.00     65 BARDO  7    138.00 74 -0.01924   -31.5   85.0 OPEN 147 [GAETZ  4
 240.00] TO 152 [RED DEE4    240.00] CKT 14
  2779.3    107 SUNDRE 7    138.00    370 SHELL C7    138.00 19 -0.03016   -36.2  120.0 OPEN 152 [RED DEE4
 240.00] TO 988 [CROSSF T    240.00] CKT 01
  2791.5     20 EDSON  7    138.00     39 CYNTHIA7    138.00 02  0.02651    11.0   85.0 BASE CASE
  2819.2    107 SUNDRE 7    138.00    883 EAGLE TP    138.00 19  0.03548    20.0  120.0 OPEN 120 [INNISFA7
 138.00] TO 121 [OLDS   7    138.00] CKT 80
  2863.5    107 SUNDRE 7    138.00    370 SHELL C7    138.00 19 -0.02949   -35.6  120.0 OPEN 152 [RED DEE4
 240.00] TO 160 [JANET  4    240.00] CKT 29
  2863.6    107 SUNDRE 7    138.00    370 SHELL C7    138.00 19 -0.02949   -35.6  120.0 OPEN 152 [RED DEE4
 240.00] TO 160 [JANET  4    240.00] CKT 25
  2868.3    124 HARMATT7    138.00    957 166L JNC    138.00 66  0.03016    -8.5   78.0 OPEN 152 [RED DEE4
 240.00] TO 988 [CROSSF T    240.00] CKT 01
  2871.2    152 RED DEE4    240.00    160 JANET  4    240.00 29  0.12134   132.6  481.0 OPEN 118 [RED DE B
 138.00] TO 120 [INNISFA7    138.00] CKT 80
  2872.5    152 RED DEE4    240.00    160 JANET  4    240.00 25  0.12130   132.6  481.0 OPEN 118 [RED DE B
 138.00] TO 120 [INNISFA7    138.00] CKT 80
  2883.2    152 RED DEE4    240.00    155 BENALTO4    240.00 00 -0.15038  -150.4  584.0 OPEN 152 [RED DEE4
 240.00] TO 128 [ELLERSLI    240.00] CKT 10
  2885.2    152 RED DEE4    240.00    160 JANET  4    240.00 29  0.12134   130.9  481.0 OPEN 120 [INNISFA7
 138.00] TO 121 [OLDS   7    138.00] CKT 80
  2886.4    152 RED DEE4    240.00    160 JANET  4    240.00 25  0.12130   130.9  481.0 OPEN 120 [INNISFA7
 138.00] TO 121 [OLDS   7    138.00] CKT 80
  2892.4    152 RED DEE4    240.00    160 JANET  4    240.00 29  0.12069   131.9  481.0 OPEN 123 [DIDSBURY
 138.00] TO 982 [MADDEN T    138.00] CKT 80
  2893.6    152 RED DEE4    240.00    160 JANET  4    240.00 25  0.12066   131.9  481.0 OPEN 123 [DIDSBURY
 138.00] TO 982 [MADDEN T    138.00] CKT 80
  2897.6*   152 RED DEE4    240.00    160 JANET  4    240.00 29  0.12134   129.4  481.0 OPEN 121 [OLDS   7
 138.00] TO 123 [DIDSBURY    138.00] CKT 80
  2898.8*   152 RED DEE4    240.00    160 JANET  4    240.00 25  0.12130   129.4  481.0 OPEN 121 [OLDS   7
 138.00] TO 123 [DIDSBURY    138.00] CKT 80
  2904.0    123 DIDSBURY    138.00   9000 DIDSBURY_NEW240.00 T1 -0.04117   -80.4  200.0
-------------------------------------------------------------                                  OPEN 9000
[DIDSBURY_NEW240.00] TO 187 [BEDDING1    240.00] CKT 18
  2911.1    107 SUNDRE 7    138.00    883 EAGLE TP    138.00 19  0.03548    16.7  120.0 OPEN 121 [OLDS   7
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138.00] TO 123 [DIDSBURY    138.00] CKT 80
 2917.0*   107 SUNDRE 7    138.00    370 SHELL C7    138.00 19 -0.02726   -40.5  120.0 OPEN 205 [AMOCO R7
138.00] TO 890 [AMOCO TP    138.00] CKT 19
 2920.8     68 N HOLDE7    138.00     65 BARDO  7    138.00 74 -0.01847   -31.1   85.0
-------------------------------------------------------------
                                                                                      OPEN 9000
[DIDSBURY_NEW240.00] TO 187 [BEDDING1    240.00] CKT 18
 2928.9    123 DIDSBURY    138.00    957 166L JNC    138.00 66 -0.03089     9.5   81.0 OPEN 155 [BENALTO4
240.00] TO 161 [SARCEE 4    240.00] CKT 06
 2929.3    123 DIDSBURY    138.00    957 166L JNC    138.00 66 -0.03089     9.5   81.0 OPEN 155 [BENALTO4
240.00] TO 161 [SARCEE 4    240.00] CKT 28
 2954.4    124 HARMATT7    138.00    957 166L JNC    138.00 66  0.02949    -9.1   78.0 OPEN 152 [RED DEE4
240.00] TO 160 [JANET  4    240.00] CKT 29
 2954.5    124 HARMATT7    138.00    957 166L JNC    138.00 66  0.02949    -9.1   78.0 OPEN 152 [RED DEE4
240.00] TO 160 [JANET  4    240.00] CKT 25
 2955.1     25 ENTWIST8    69.000     28 MOON LA8    69.000 29  0.00665     9.4   29.0 BASE CASE
 2959.5    124 HARMATT7    138.00    883 EAGLE TP    138.00 19 -0.03548   -15.0  120.0 OPEN 118 [RED DE B
138.00] TO 120 [INNISFA7    138.00] CKT 80
 2959.5     81 BIGSTON4    240.00    374 BIGSTON7    138.00 T1  0.03300   102.3  200.0 OPEN 147 [GAETZ  4
240.00] TO 81 [BIGSTON4    240.00] CKT 14
 2970.0     20 EDSON  7    138.00     39 CYNTHIA7    138.00 02  0.02540     9.6   85.0 OPEN 152 [RED DEE4
240.00] TO 155 [BENALTO4    240.00] CKT 00
 2995.6     91 NISKU  7    138.00     93 WETASKI7    138.00 58  0.02563    19.2   96.0 OPEN 81 [BIGSTON4
240.00] TO 374 [BIGSTON7    138.00] CKT T1

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* MONITORED ELEMENTS OCCURRING 10 OR MORE TIMES

NO. TIMES	MONITORED ELEMENT F R O M			MONITORED ELEMENT T O			CKT
53	117 RED DE A	138.00		118 RED DE B	138.00		1
50	147 GAETZ 4	240.00		152 RED DEE4	240.00		14
43	128 ELLERSLI	240.00		81 BIGSTON4	240.00		14
43	155 BENALTO4	240.00		9000 DIDSBURY_NEW	240.00		18
42	9000 DIDSBURY_NEW	240.00		187 BEDDING1	240.00		18
40	81 BIGSTON4	240.00		147 GAETZ 4	240.00		14
38	121 OLDS 7	138.00		123 DIDSBURY	138.00		80
36	155 BENALTO4	240.00		161 SARCEE 4	240.00		06
36	155 BENALTO4	240.00		161 SARCEE 4	240.00		28
35	123 DIDSBURY	138.00		982 MADDEN T	138.00		80
32	152 RED DEE4	240.00		988 CROSSF T	240.00		01
25	152 RED DEE4	240.00		128 ELLERSLI	240.00		10

25	128	ELLERSLI	240.00	152	RED DEE4	240.00	10
25	155	BENALTO4	240.00	420	KEEPHIL4	240.00	03
25	155	BENALTO4	240.00	420	KEEPHIL4	240.00	90
25	420	KEEPHIL4	240.00	155	BENALTO4	240.00	03
25	420	KEEPHIL4	240.00	155	BENALTO4	240.00	90
24	155	BENALTO4	240.00	135	SUNDANC4	240.00	22
24	155	BENALTO4	240.00	135	SUNDANC4	240.00	26
24	135	SUNDANC4	240.00	155	BENALTO4	240.00	22
24	135	SUNDANC4	240.00	155	BENALTO4	240.00	26
22	101	COOKING7	138.00	65	BARDO 7	138.00	74
21	152	RED DEE4	240.00	160	JANET 4	240.00	25
21	152	RED DEE4	240.00	160	JANET 4	240.00	29
12	107	SUNDRE 7	138.00	370	SHELL C7	138.00	19

Alternative 1-2012SP-SOK-TLTG-Result

PTI INTERACTIVE POWER SYSTEM SIMULATOR--PSS/E TUE, MAR 08 2011 9:48
D-SOK-1 (S3_SOK_PK) 2012 SUMMER PEAK CASE 716L CLOSED PAGE 1
NOVA ON 485MW WITHOUT TRANSMISSION PLAN
*** TLTG EXPORT LIMIT OUTPUT FOR BASE CASE ***

DISTRIBUTION FACTOR FILE: C:\Documents and Settings\zheny2\My Documents\AESO-RED DEER\New Final Case 01-03-2011\2012\TLTG(Transfer Capability Study
SUBSYSTEM DESCRIPTION FILE: C:\Documents and Settings\zheny2\My Documents\AESO-RED DEER\New Final Case 01-03-2011\2012\TLTG(Transfer Capability Study
MONITORED ELEMENT FILE: C:\Documents and Settings\zheny2\My Documents\AESO-RED DEER\New Final Case 01-03-2011\2012\TLTG(Transfer Capability Study
CONTINGENCY DESCRIPTION FILE: C:\Documents and Settings\zheny2\My Documents\AESO-RED DEER\New Final Case 01-03-2011\2012\TLTG(Transfer Capability Study

	PRE-SHIFT	DELTA	POST-SHIFT
STUDY SYSTEM MW GENERATION:	7925.6	100.0	8025.6
OPPOSING SYSTEM MW GENERATION:	66.0	-100.0	-34.0
STUDY SYSTEM NET INTERCHANGE:	2087.6	100.0	2187.6

<---------- STUDY SYSTEM ---------->					<---------- OPPOSING SYSTEM ---------->				
			<---- GENERATOR MW ---->					<---- GENERATOR MW ---->	
BUS#	X-- NAME	--X BASKV	BASE	SHIFT	CHANGE	BUS# X-- NAME	--X BASKV	BASE	SHIFT	CHANGE
14	WESGEN 9	13.800	15.8	16.0	0.2	4187 CECGT	18.000	4.1	-64.8	-68.9
54	DOW GEN2	14.400	88.7	89.8	1.1	4290 BALZ 1&2	13.800	61.9	30.8	-31.1
130	SUND#3GN	20.000	380.0	384.5	4.5					
338	SUND#2GN	18.000	301.0	304.4	3.4					
342	SUND#4GN	20.000	433.0	437.5	4.5					
345	SUND#5GN	20.000	433.0	437.5	4.5					
350	SUND#6GN	20.000	429.0	433.8	4.8					
408	WHITEGE9	12.500	25.0	25.4	0.4					
422	KEEP#1GN	19.000	408.0	412.5	4.5					
424	KEEP#2GN	19.000	408.0	412.5	4.5					
454	DOW GEN1	14.400	88.7	89.8	1.1					
490	GENES 39	22.000	486.0	491.9	5.9					
491	GENES 19	20.500	443.0	447.9	4.9					
492	GENES 29	20.500	413.0	417.9	4.9					
627	AIR LIQC	13.800	82.9	83.9	1.0					
1089	DIASHOW9	13.800	33.3	33.8	0.5					
1141	P&G 9	13.800	28.3	28.7	0.4					
1148	HR MILN9	15.000	159.0	160.7	1.7					
2030	DOWSTG 9	14.700	45.0	45.5	0.5					

2031	DOWGTG 9	13.800	80.8	81.8	1.0
2248	MAHKE-G2	13.800	83.5	84.6	1.1
2392	ALPAC2	13.800	89.1	90.6	1.5
2405	CONKLIN2	13.800	78.9	79.9	1.0
2406	CONKLIN2	13.800	85.0	86.0	1.0
3050	REDW GT	13.800	37.1	37.8	0.7
3248	MAHKE-G1	13.800	83.5	84.6	1.1
3301	FCG1	13.800	41.8	42.2	0.4
3302	FCG2	13.800	41.8	42.2	0.4
4062	SHERRITT	4.1600	6.0	6.1	0.1
4185	SCOTF GT	13.800	87.1	88.2	1.1
7185	SCOTF ST	13.800	84.5	85.6	1.1
10236	MUSKEG4	13.800	78.9	80.0	1.1
11241	LONGLK11	13.800	10.8	10.9	0.1
12236	MUSKEG6	13.800	78.9	80.0	1.1
12249	LNGLKCG1	13.800	78.9	80.0	1.1
13249	LNGLKCG2	13.800	78.9	80.0	1.1
16218	SUNC_G19	13.800	29.7	30.1	0.4
16219	MIL_G3	13.800	60.3	61.1	0.8
16233	SYNC_UE5	13.800	78.9	79.9	1.0
17101	GPEP39	13.800	23.8	24.1	0.3
17209	SYNC_G39	13.800	20.6	20.9	0.3
17210	SYNC_G49	13.800	41.8	42.4	0.6
17233	SYNC_UE4	13.800	25.3	25.6	0.3
18206	AUR_GTG2	13.800	78.9	79.9	1.0
18207	AUR_GTG1	13.800	78.9	79.9	1.0
18208	MIL_G5 9	13.800	102.1	103.6	1.5
18209	SYNC_G29	13.800	41.8	42.4	0.6
18210	SYNC_G59	13.800	20.6	20.9	0.3
18218	SUNC G29	13.800	29.7	30.1	0.4
18223	TAR-GN-2	13.800	69.6	70.5	0.9
18264	HORUP7	13.800	79.8	80.8	1.0
18274	MACKAY2	18.000	159.6	161.5	1.9
18302	PRIM GEN	13.800	88.2	89.3	1.1
19142	BEARCK3	13.800	32.3	32.7	0.4
19208	MIL_G6 9	13.800	102.1	103.6	1.5
19209	SYNC_G19	13.800	41.8	42.4	0.6
19210	SYNC_G69	13.800	55.7	56.5	0.8
19264	HORUP6	13.800	14.4	14.6	0.2
90351	KEEUN3	22.000	495.0	500.9	5.9
90517	SH_UG32	13.800	20.7	20.9	0.2
91521	BIOMASS1	12.500	33.0	33.4	0.4
91522	BIOMASS2	12.500	33.0	33.4	0.4
96083	SHELLCM2	18.000	177.1	179.6	2.5
96111	DUNVEG25	25.000	95.0	96.1	1.1

97252	FT. HILL 13.13.800		78.9	80.0	1.1
97253	FT. HILL 13.13.800		78.9	80.0	1.1
97275	G-L_CG2	13.800	157.8	159.9	2.1

LOADINGS AT OR ABOVE 100.0 %
OF RATING ARE MARKED WITH '*'

<------- F R O M ------->			<--------- T O --------->			CKT	INCR. TRANS CAPAB	<---------- BASE CASE ----------> RATING A	PRE-SHIFT MW	POST-SHIFT MW	LIMIT CASE MW	DISTR. FACTOR
155	BENALTO4	240.00	9000	DIDSBURY_NEW	240.00	18	478.4	417	314.9	336.3	417.0*	0.21333
9000	DIDSBURY_NEW	240.00	187	BEDDING1	240.00	18	633.5	417	257.7	282.8	378.0	0.25148
101	COOKING7	138.00	65	BARDO 7	138.00	74	847.7	85	65.2	67.5	76.4	0.02340
128	ELLERSLI	240.00	81	BIGSTON4	240.00	14	918.2	481	337.8	353.4	412.4	0.15601
155	BENALTO4	240.00	135	SUNDANC4	240.00	22	987.9	466	-324.8	-339.1	-393.2	-0.14288
135	SUNDANC4	240.00	155	BENALTO4	240.00	22	987.9	466	324.8	339.1	393.2	0.14288
123	DIDSBURY	138.00	982	MADDEN T	138.00	80	1080.2	122	88.2	91.3	103.2	0.03132
155	BENALTO4	240.00	135	SUNDANC4	240.00	26	1084.9	481	-325.7	-340.0	-394.2	-0.14313
135	SUNDANC4	240.00	155	BENALTO4	240.00	26	1084.9	481	325.7	340.0	394.2	0.14313
152	RED DEE4	240.00	988	CROSSF T	240.00	01	1106.5	408	249.5	263.8	318.0	0.14327
128	ELLERSLI	240.00	152	RED DEE4	240.00	10	1177.4	466	282.6	298.2	357.1	0.15575
152	RED DEE4	240.00	128	ELLERSLI	240.00	10	1177.4	466	-282.6	-298.2	-357.1	-0.15575
155	BENALTO4	240.00	161	SARCEE 4	240.00	06	1276.4	449	290.4	302.8	349.9	0.12425
155	BENALTO4	240.00	161	SARCEE 4	240.00	28	1288.7	449	288.9	301.3	348.3	0.12423
155	BENALTO4	240.00	420	KEEPHIL4	240.00	90	1411.2	466	-293.9	-306.1	-352.3	-0.12194
420	KEEPHIL4	240.00	155	BENALTO4	240.00	90	1411.2	466	293.9	306.1	352.3	0.12194
68	N HOLDE7	138.00	65	BARDO 7	138.00	74	1423.0	85	-60.6	-62.4	-68.8	-0.01711
420	KEEPHIL4	240.00	155	BENALTO4	240.00	03	1444.5	466	291.4	303.5	349.2	0.12088
155	BENALTO4	240.00	420	KEEPHIL4	240.00	03	1444.5	466	-291.4	-303.5	-349.2	-0.12088
147	GAETZ 4	240.00	152	RED DEE4	240.00	14	1446.9	466	253.0	267.7	323.5	0.14720
117	RED DE A	138.00	118	RED DE B	138.00	1	1572.6	121	61.9	65.7	79.9	0.03758
81	BIGSTON4	240.00	147	GAETZ 4	240.00	14	1623.0	499	241.7	257.6	317.6	0.15851
121	OLDS 7	138.00	123	DIDSBURY	138.00	80	1757.0	122	48.8	52.9	68.7	0.04167
25	ENTWIST8	69.000	28	MOON LA8	69.000	29	1901.1	29	17.3	17.9	20.2	0.00617
20	EDSON 7	138.00	39	CYNTHIA7	138.00	02	1971.8	85	37.2	39.6	48.8	0.02424
152	RED DEE4	240.00	160	JANET 4	240.00	29	2047.6	466	220.5	232.5	277.9	0.11989
152	RED DEE4	240.00	160	JANET 4	240.00	25	2174.0	481	220.4	232.4	277.8	0.11986
107	SUNDRE 7	138.00	370	SHELL C7	138.00	19	2270.1	120	-56.9	-59.7	-70.2	-0.02780
91	NISKU 7	138.00	93	WETASKI7	138.00	58	2691.2	96	22.9	25.6	35.9	0.02715
124	HARMATT7	138.00	957	166L JNC	138.00	66	2987.3	78	-5.0	-2.3	8.3	0.02780
1383	VERMILO7	138.00	79	BUFFALO7	138.00	50	3190.1	114	32.3	34.8	44.5	0.02562
123	DIDSBURY	138.00	957	166L JNC	138.00	66	3248.8	81	9.3	6.5	-4.0	-0.02780
76	IPPL ST7	138.00	1491	BAT. RV7	138.00	01	3337.3	112	16.3	19.1	30.0	0.02869
152	RED DEE4	240.00	155	BENALTO4	240.00	00	3477.2	584	-307.4	-315.3	-345.4	-0.07955
107	SUNDRE 7	138.00	883	EAGLE TP	138.00	19	3514.5	120	22.3	25.1	35.6	0.02780
118	RED DE B	138.00	120	INNISFA7	138.00	80	3748.1	252	95.8	100.0	115.7	0.04167
374	BIGSTON7	138.00	804	803/804X	138.00	04	3801.8	126	80.7	81.9	86.4	0.01192

93	WETASKI7	138.00	803	803/804N	138.00	04	3840.8	126	-80.2	-81.4	-85.9	-0.01192
124	HARMATT7	138.00	883	EAGLE TP	138.00	19	3991.9	120	-9.0	-11.8	-22.3	-0.02780
120	INNISFA7	138.00	121	OLDS 7	138.00	80	4280.6	252	73.6	77.8	93.6	0.04167
93	WETASKI7	138.00	95	PONOKA 7	138.00	16	4637.2	252	41.7	46.2	63.4	0.04536
862	PV-TAP7	138.00	362	EDGERTO7	138.00	49	4848.9	85	9.6	11.1	17.0	0.01556
99	BENALTO7	138.00	882	SCHRA TP	138.00	48	4921.6	167	73.4	75.3	82.5	0.01902
95	PONOKA 7	138.00	116	W LACOMB	138.00	80	5236.6	252	14.5	19.0	36.2	0.04536
115	S RED DE	138.00	119	N RED D7	138.00	80	5621.2	372	-115.4	-119.9	-137.2	-0.04566
370	SHELL C7	138.00	882	SCHRA TP	138.00	48	6297.3	174	-54.2	-56.1	-63.3	-0.01902
115	S RED DE	138.00	117	RED DE A	138.00	80	6331.7	372	82.9	87.5	104.8	0.04566
96	DEVON 7	138.00	365	BUFORD 7	138.00	38	6350.6	121	29.5	30.9	36.4	0.01441
123	DIDSBURY	138.00	9000	DIDSBURY_NEW	240.00	T1	6530.1	200	-49.1	-45.3	-30.9	0.03815
105	PIGEON 7	138.00	374	BIGSTON7	138.00	05	6928.3	85	-14.9	-13.4	-8.0	0.01441
104	STRACHA7	138.00	890	AMOCO TP	138.00	19	6958.2	120	58.9	59.8	63.1	0.00878
155	BENALTO4	240.00	995	W.GRN TP	240.00	95	7429.4	466	-156.6	-160.7	-176.5	-0.04165
356	BON GLE7	138.00	365	BUFORD 7	138.00	38	7477.6	121	-13.2	-14.7	-20.1	-0.01441
105	PIGEON 7	138.00	356	BON GLE7	138.00	37	8345.5	119	1.3	-0.2	-5.6	-0.01441
113	BLACKFA7	138.00	116	W LACOMB	138.00	80	8364.8	252	-28.0	-30.7	-40.8	-0.02678
99	BENALTO7	138.00	155	BENALTO4	240.00	T1	8482.1	200	-76.5	-77.9	-83.4	-0.01456
99	BENALTO7	138.00	155	BENALTO4	240.00	T2	8486.5	200	-76.4	-77.9	-83.4	-0.01456
423	KEEPHIL7	138.00	49	KEYSTON7	138.00	34	8547.7	158	61.9	63.1	67.3	0.01124
99	BENALTO7	138.00	100	ROCKY M7	138.00	17	9148.0	120	39.7	40.6	43.9	0.00878
113	BLACKFA7	138.00	119	N RED D7	138.00	80	9404.4	252	0.1	2.8	12.9	0.02678
881	RAVEN TP	138.00	890	AMOCO TP	138.00	19	10244.4	120	-30.1	-30.9	-34.3	-0.00878
370	SHELL C7	138.00	881	RAVEN TP	138.00	19	10829.7	120	-24.9	-25.8	-29.1	-0.00878
384	UC PRENT	138.00	388	ELLIS 7	138.00	74	11452.9	156	-28.6	-29.7	-33.9	-0.01112
70	CAMROSE7	138.00	946	KING TAP	138.00	30	12821.7	85	-4.4	-5.1	-7.4	-0.00628
	INTERFACE SOK						12905.8	2050	-260.3	-274.2	-326.7	-0.13867
65	BARDO 7	138.00	946	KING TAP	138.00	30	12966.2	86	4.5	5.1	7.5	0.00628
100	ROCKY M7	138.00	104	STRACHA7	138.00	70	13008.7	120	5.8	6.7	10.0	0.00878
114	LACOMBE7	138.00	116	W LACOMB	138.00	80	14296.9	252	13.6	11.7	4.7	-0.01858
803	803/804N	138.00	804	803/804X	138.00	04	14390.2	126	-40.3	-40.8	-43.1	-0.00596
803	803/804N	138.00	804	803/804X	138.00	03	14390.2	126	-40.3	-40.8	-43.1	-0.00596
114	LACOMBE7	138.00	388	ELLIS 7	138.00	1	14670.6	252	-20.5	-18.7	-11.6	0.01858
383	JOFFRE 7	138.00	664	PIPER CR	138.00	55	15468.7	252	81.6	82.7	86.9	0.01102
70	CAMROSE7	138.00	94	ERVICK 7	138.00	29	16699.3	85	-19.9	-19.3	-16.9	0.00628
119	N RED D7	138.00	148	GAETZ 7	138.00	78	17494.9	239	-73.9	-74.9	-78.4	-0.00944
119	N RED D7	138.00	148	GAETZ 7	138.00	68	17494.9	239	-73.9	-74.9	-78.4	-0.00944
118	RED DE B	138.00	664	PIPER CR	138.00	55	18368.8	252	-49.6	-50.7	-54.9	-0.01102
94	ERVICK 7	138.00	899	TRUE W T	138.00	29	18604.7	85	-31.9	-31.3	-28.9	0.00628
152	RED DEE4	240.00	1422	NEVIS 4	240.00	12	20204.4	488	168.7	170.3	176.3	0.01580
93	WETASKI7	138.00	899	TRUE W T	138.00	29	20409.7	96	32.3	31.6	29.2	-0.00628
118	RED DE B	138.00	152	RED DEE4	240.00	T2	22476.2	200	14.9	15.7	18.8	0.00824
117	RED DE A	138.00	152	RED DEE4	240.00	T1	22942.5	200	14.6	15.4	18.5	0.00808
148	GAETZ 7	138.00	384	UC PRENT	138.00	59	27526.6	151	-15.0	-15.5	-17.3	-0.00494

388	ELLIS 7	138.00	975	COMINTAP	138.00	84	28769.0	154	-60.4	-59.7	-56.9	0.00745
383	JOFFRE 7	138.00	975	COMINTAP	138.00	84	29305.0	154	64.4	63.7	60.9	-0.00745
383	JOFFRE 7	138.00	384	UC PRENT	138.00	75	34081.7	151	59.7	59.0	56.7	-0.00618
147	GAETZ 4	240.00	148	GAETZ 7	138.00	T2	36594.2	200	-8.5	-7.9	-5.8	0.00570
147	GAETZ 4	240.00	148	GAETZ 7	138.00	T1	37093.1	200	-8.4	-7.8	-5.7	0.00562
148	GAETZ 7	138.00	383	JOFFRE 7	138.00	56	60301.1	154	-75.1	-75.2	-75.7	-0.00131
148	GAETZ 7	138.00	383	JOFFRE 7	138.00	93	60340.8	154	-75.1	-75.2	-75.7	-0.00131
81	BIGSTON4	240.00	374	BIGSTON7	138.00	T1	>99999.	200	95.8	95.6	94.6	-0.00250
95	PONOKA 7	138.00	192	NELSON L	138.00	1	>99999.	96	6.8	6.8	6.8	0.00000
97	ECKVILL7	138.00	956	758L JCT	138.00	58	>99999.	85	-8.8	-8.8	-8.8	0.00000
98	RIMBEY 7	138.00	956	758L JCT	138.00	57	>99999.	85	-12.7	-12.7	-12.7	0.00000
99	BENALTO7	138.00	780	SYLV_138	138.00	1	>99999.	252	11.2	11.3	11.8	0.00133
99	BENALTO7	138.00	956	758L JCT	138.00	57	>99999.	85	21.6	21.6	21.6	0.00000
118	RED DE B	138.00	780	SYLV_138	138.00	1	>99999.	252	0.9	0.7	0.2	-0.00132
122	MADDEN 7	138.00	982	MADDEN T	138.00	89	>99999.	75	-13.4	-13.4	-13.4	0.00000
124	HARMATT7	138.00	97619	HGF1	138.00	01	>99999.	174	0.5	0.5	0.5	0.00000
126	SHELL H7	138.00	957	166L JNC	138.00	66	>99999.	85	-4.2	-4.2	-4.2	0.00000
142	KINGMAN7	138.00	946	KING TAP	138.00	32	>99999.	86	0.0	0.0	0.0	0.00000
152	RED DEE4	240.00	93700	RED DEER LUM	34.500	1	>99999.	1000	-1.2	-1.2	-1.2	0.00000
205	AMOCO R7	138.00	257	LIMESTO7	138.00	64	>99999.	121	22.1	22.1	22.1	0.00000
205	AMOCO R7	138.00	890	AMOCO TP	138.00	19	>99999.	121	-27.6	-27.6	-27.6	0.00000
354	NOVA C17	138.00	383	JOFFRE 7	138.00	1	>99999.	327	136.6	136.6	136.6	0.00000
355	NOVA C27	138.00	383	JOFFRE 7	138.00	2	>99999.	327	265.9	265.9	265.9	0.00000
382	SHELL RA	138.00	881	RAVEN TP	138.00	19	>99999.	121	-5.1	-5.1	-5.1	0.00000
383	JOFFRE 7	138.00	398	BROOKFLD	138.00	89	>99999.	121	3.1	3.1	3.1	0.00000
385	SHELL SC	138.00	882	SCHRA TP	138.00	48	>99999.	121	-17.2	-17.2	-17.2	0.00000
386	SHELL EA	138.00	883	EAGLE TP	138.00	19	>99999.	121	-13.1	-13.1	-13.1	0.00000
387	COMINCO7	138.00	975	COMINTAP	138.00	84	>99999.	101	-3.6	-3.6	-3.6	0.00000
440	TRUE WEL	138.00	899	TRUE W T	138.00	29	>99999.	98	0.0	0.0	0.0	0.00000

PTI INTERACTIVE POWER SYSTEM SIMULATOR--PSS/E TUE, MAR 08 2011 9:48
D-SOK-1 (S3_SOK_PK) 2012 SUMMER PEAK CASE 716L CLOSED PAGE 2
NOVA ON 485MW WITHOUT TRANSMISSION PLAN
*** TLTG EXPORT LIMIT OUTPUT FOR SUBSYSTEM N-OF-SOK ***

SOLUTION OF 95 SYSTEM CONDITIONS ATTEMPTED 0 INSOLUBLE SYSTEM CONDITIONS

INCR. TRANS CAPAB	LIMITING ELEMENT F R O M			T O			CKT	DISTR. FACTOR	PRE-SHIFT MW	RATING BAS/CNT A/A	CONTINGENCY DESCRIPTION
-249.2	68 N HOLDE7	138.00	65	BARDO 7	138.00	74	-0.01986	-89.9	85.0		

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   474.2   9000 DIDSBURY_NEW240.00    187 BEDDING1    240.00 18  0.26072   293.4  417.0 OPEN 152 [RED DEE4
240.00] TO 155 [BENALTO4    240.00] CKT 00
   477.1   9000 DIDSBURY_NEW240.00    187 BEDDING1    240.00 18  0.26846   288.9  417.0 OPEN 152 [RED DEE4
240.00] TO 160 [JANET  4    240.00] CKT 29
   477.1   9000 DIDSBURY_NEW240.00    187 BEDDING1    240.00 18  0.26846   288.9  417.0 OPEN 152 [RED DEE4
240.00] TO 160 [JANET  4    240.00] CKT 25
   479.0   9000 DIDSBURY_NEW240.00    187 BEDDING1    240.00 18  0.26328   290.9  417.0 OPEN 123 [DIDSBURY
138.00] TO 982 [MADDEN T    138.00] CKT 80
   495.8    101 COOKING7    138.00     65 BARDO  7    138.00 74  0.02637    71.9   85.0 OPEN 155 [BENALTO4
240.00] TO 135 [SUNDANC4    240.00] CKT 26
   496.7*   101 COOKING7    138.00     65 BARDO  7    138.00 74  0.02636    71.9   85.0 OPEN 155 [BENALTO4
240.00] TO 135 [SUNDANC4    240.00] CKT 22
   533.4    155 BENALTO4    240.00    161 SARCEE 4    240.00 06  0.15654   365.5  449.0 OPEN 155 [BENALTO4
240.00] TO 161 [SARCEE 4    240.00] CKT 28
   540.7    155 BENALTO4    240.00    161 SARCEE 4    240.00 28  0.15652   364.4  449.0 OPEN 155 [BENALTO4
240.00] TO 161 [SARCEE 4    240.00] CKT 06
   544.8     68 N HOLDE7    138.00     65 BARDO  7    138.00 74 -0.02437   -71.7   85.0 OPEN 147 [GAETZ  4
240.00] TO 81 [BIGSTON4    240.00] CKT 14
   561.9    128 ELLERSLI    240.00     81 BIGSTON4    240.00 14  0.17561   382.3  481.0 OPEN 155 [BENALTO4
240.00] TO 135 [SUNDANC4    240.00] CKT 26
   562.8    128 ELLERSLI    240.00     81 BIGSTON4    240.00 14  0.17556   382.2  481.0 OPEN 155 [BENALTO4
240.00] TO 135 [SUNDANC4    240.00] CKT 22
   579.2   9000 DIDSBURY_NEW240.00    187 BEDDING1    240.00 18  0.25269   270.6  417.0
------------------------------------------------------------                        OPEN 152 [RED DEE4
240.00] TO 1422 [NEVIS  4    240.00] CKT 12
   584.4   9000 DIDSBURY_NEW240.00    187 BEDDING1    240.00 18  0.25663   267.0  417.0 OPEN 152 [RED DEE4
240.00] TO 128 [ELLERSLI    240.00] CKT 10
   584.9*  9000 DIDSBURY_NEW240.00    187 BEDDING1    240.00 18  0.25678   266.8  417.0 OPEN 147 [GAETZ  4
240.00] TO 152 [RED DEE4    240.00] CKT 14
   587.9    128 ELLERSLI    240.00     81 BIGSTON4    240.00 14  0.17320   379.2  481.0 OPEN 155 [BENALTO4
240.00] TO 420 [KEEPHIL4    240.00] CKT 90
   591.3    128 ELLERSLI    240.00     81 BIGSTON4    240.00 14  0.17300   378.7  481.0 OPEN 155 [BENALTO4
240.00] TO 420 [KEEPHIL4    240.00] CKT 03
   604.3    128 ELLERSLI    240.00     81 BIGSTON4    240.00 14  0.16697   380.1  481.0 OPEN 152 [RED DEE4
240.00] TO 155 [BENALTO4    240.00] CKT 00
   604.6    123 DIDSBURY    138.00    982 MADDEN T    138.00 80  0.03767    99.2  122.0 OPEN 152 [RED DEE4
240.00] TO 988 [CROSSF T    240.00] CKT 01
   621.1    152 RED DEE4    240.00    128 ELLERSLI    240.00 10 -0.19613  -344.2  466.0 OPEN 147 [GAETZ  4
240.00] TO 81 [BIGSTON4    240.00] CKT 14
   621.1    128 ELLERSLI    240.00    152 RED DEE4    240.00 10  0.19613   344.2  466.0 OPEN 147 [GAETZ  4
240.00] TO 81 [BIGSTON4    240.00] CKT 14
   629.0    135 SUNDANC4    240.00    155 BENALTO4    240.00 22  0.16387   362.9  466.0 OPEN 152 [RED DEE4
240.00] TO 128 [ELLERSLI    240.00] CKT 10
   629.0    155 BENALTO4    240.00    135 SUNDANC4    240.00 22 -0.16387  -362.9  466.0 OPEN 152 [RED DEE4
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240.00] TO 128 [ELLERSLI    240.00] CKT 10
   635.6    152 RED DEE4    240.00    988 CROSSF T    240.00 01  0.17053   299.6  408.0 OPEN 152 [RED DEE4
240.00] TO 160 [JANET  4    240.00] CKT 29
   635.7    152 RED DEE4    240.00    988 CROSSF T    240.00 01  0.17052   299.6  408.0 OPEN 152 [RED DEE4
240.00] TO 160 [JANET  4    240.00] CKT 25
   643.3    152 RED DEE4    240.00    988 CROSSF T    240.00 01  0.18305   290.2  408.0
-------------------------------------------------------------                          OPEN 9000
[DIDSBURY_NEW240.00] TO 187 [BEDDING1    240.00] CKT 18
   645.7    147 GAETZ  4    240.00    152 RED DEE4    240.00 14  0.19513   340.0  466.0 OPEN 152 [RED DEE4
240.00] TO 128 [ELLERSLI    240.00] CKT 10
   655.9    135 SUNDANC4    240.00    155 BENALTO4    240.00 22  0.15836   362.1  466.0 OPEN 155 [BENALTO4
240.00] TO 420 [KEEPHIL4    240.00] CKT 90
   655.9    155 BENALTO4    240.00    135 SUNDANC4    240.00 22 -0.15836  -362.1  466.0 OPEN 155 [BENALTO4
240.00] TO 420 [KEEPHIL4    240.00] CKT 90
   659.3    155 BENALTO4    240.00    135 SUNDANC4    240.00 22 -0.15818  -361.7  466.0 OPEN 155 [BENALTO4
240.00] TO 420 [KEEPHIL4    240.00] CKT 03
   659.3    135 SUNDANC4    240.00    155 BENALTO4    240.00 22  0.15818   361.7  466.0 OPEN 155 [BENALTO4
240.00] TO 420 [KEEPHIL4    240.00] CKT 03
   663.2    123 DIDSBURY    138.00    982 MADDEN T    138.00 80  0.03654    97.8  122.0 OPEN 152 [RED DEE4
240.00] TO 160 [JANET  4    240.00] CKT 29
   663.3    123 DIDSBURY    138.00    982 MADDEN T    138.00 80  0.03654    97.8  122.0 OPEN 152 [RED DEE4
240.00] TO 160 [JANET  4    240.00] CKT 25
   670.9    155 BENALTO4    240.00    161 SARCEE 4    240.00 06  0.15928   342.1  449.0
-------------------------------------------------------------                          OPEN 155 [BENALTO4
240.00] TO 9000 [DIDSBURY_NEW240.00] CKT 18
   680.5    155 BENALTO4    240.00    161 SARCEE 4    240.00 28  0.15927   340.6  449.0
-------------------------------------------------------------                          OPEN 155 [BENALTO4
240.00] TO 9000 [DIDSBURY_NEW240.00] CKT 18
   683.8    155 BENALTO4    240.00    135 SUNDANC4    240.00 22 -0.16256  -354.9  466.0 OPEN 147 [GAETZ  4
240.00] TO 81 [BIGSTON4    240.00] CKT 14
   683.8    135 SUNDANC4    240.00    155 BENALTO4    240.00 22  0.16256   354.9  466.0 OPEN 147 [GAETZ  4
240.00] TO 81 [BIGSTON4    240.00] CKT 14
   692.1    155 BENALTO4    240.00    161 SARCEE 4    240.00 06  0.16653   333.7  449.0
-------------------------------------------------------------                          OPEN 9000
[DIDSBURY_NEW240.00] TO 187 [BEDDING1    240.00] CKT 18
   701.3    155 BENALTO4    240.00    161 SARCEE 4    240.00 28  0.16652   332.2  449.0
-------------------------------------------------------------                          OPEN 9000
[DIDSBURY_NEW240.00] TO 187 [BEDDING1    240.00] CKT 18
   704.4     68 N HOLDE7    138.00     65 BARDO  7    138.00 74 -0.02199   -69.5   85.0 OPEN 152 [RED DEE4
240.00] TO 128 [ELLERSLI    240.00] CKT 10
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   709.7    152 RED DEE4    240.00    988 CROSSF T    240.00 01  0.16927   287.9  408.0
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                                                                                OPEN 155 [BENALTO4
240.00] TO 9000 [DIDSBURY_NEW240.00] CKT 18
   710.8    117 RED DE A    138.00    118 RED DE B    138.00 1   0.05238    83.8  121.0
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                                                                                OPEN 155 [BENALTO4
240.00] TO 9000 [DIDSBURY_NEW240.00] CKT 18
   713.6    135 SUNDANC4    240.00    155 BENALTO4    240.00 26  0.16416   363.9  481.0 OPEN 152 [RED DEE4
240.00] TO 128 [ELLERSLI    240.00] CKT 10
   713.6    155 BENALTO4    240.00    135 SUNDANC4    240.00 26 -0.16416  -363.9  481.0 OPEN 152 [RED DEE4
240.00] TO 128 [ELLERSLI    240.00] CKT 10
   724.7    152 RED DEE4    240.00    988 CROSSF T    240.00 01  0.16113   291.2  408.0 OPEN 155 [BENALTO4
240.00] TO 161 [SARCEE 4    240.00] CKT 06
   726.1    152 RED DEE4    240.00    988 CROSSF T    240.00 01  0.16113   291.0  408.0 OPEN 155 [BENALTO4
240.00] TO 161 [SARCEE 4    240.00] CKT 28
   743.4    155 BENALTO4    240.00    135 SUNDANC4    240.00 26 -0.15863  -363.1  481.0 OPEN 155 [BENALTO4
240.00] TO 420 [KEEPHIL4    240.00] CKT 90
   743.4    135 SUNDANC4    240.00    155 BENALTO4    240.00 26  0.15863   363.1  481.0 OPEN 155 [BENALTO4
240.00] TO 420 [KEEPHIL4    240.00] CKT 90
   747.0    135 SUNDANC4    240.00    155 BENALTO4    240.00 26  0.15845   362.6  481.0 OPEN 155 [BENALTO4
240.00] TO 420 [KEEPHIL4    240.00] CKT 03
   747.0    155 BENALTO4    240.00    135 SUNDANC4    240.00 26 -0.15845  -362.6  481.0 OPEN 155 [BENALTO4
240.00] TO 420 [KEEPHIL4    240.00] CKT 03
   752.1    155 BENALTO4    240.00    135 SUNDANC4    240.00 22 -0.15035  -352.9  466.0 OPEN 155 [BENALTO4
240.00] TO 995 [W.GRN TP    240.00] CKT 95
   752.1    135 SUNDANC4    240.00    155 BENALTO4    240.00 22  0.15035   352.9  466.0 OPEN 155 [BENALTO4
240.00] TO 995 [W.GRN TP    240.00] CKT 95
   769.1    135 SUNDANC4    240.00    155 BENALTO4    240.00 26  0.16284   355.8  481.0 OPEN 147 [GAETZ  4
240.00] TO 81 [BIGSTON4    240.00] CKT 14
   769.1    155 BENALTO4    240.00    135 SUNDANC4    240.00 26 -0.16284  -355.8  481.0 OPEN 147 [GAETZ  4
240.00] TO 81 [BIGSTON4    240.00] CKT 14
   783.6    128 ELLERSLI    240.00     81 BIGSTON4    240.00 14  0.16530   351.5  481.0
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                                                                                OPEN 155 [BENALTO4
240.00] TO 9000 [DIDSBURY_NEW240.00] CKT 18
   785.1    152 RED DEE4    240.00    128 ELLERSLI    240.00 10 -0.17572  -328.0  466.0 OPEN 155 [BENALTO4
240.00] TO 135 [SUNDANC4    240.00] CKT 26
   785.1    128 ELLERSLI    240.00    152 RED DEE4    240.00 10  0.17572   328.0  466.0 OPEN 155 [BENALTO4
240.00] TO 135 [SUNDANC4    240.00] CKT 26
   785.6    128 ELLERSLI    240.00     81 BIGSTON4    240.00 14  0.16057   354.9  481.0 OPEN 155 [BENALTO4
240.00] TO 995 [W.GRN TP    240.00] CKT 95
   786.1    128 ELLERSLI    240.00    152 RED DEE4    240.00 10  0.17567   327.9  466.0 OPEN 155 [BENALTO4
240.00] TO 135 [SUNDANC4    240.00] CKT 22
   786.1    152 RED DEE4    240.00    128 ELLERSLI    240.00 10 -0.17567  -327.9  466.0 OPEN 155 [BENALTO4
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240.00] TO 135 [SUNDANC4    240.00] CKT 22
   809.2     68 N HOLDE7    138.00     65 BARDO  7    138.00 74 -0.02127   -67.8   85.0 OPEN 147 [GAETZ  4
240.00] TO 152 [RED DEE4    240.00] CKT 14
   809.4    152 RED DEE4    240.00    128 ELLERSLI    240.00 10 -0.16802  -330.0  466.0 OPEN 152 [RED DEE4
240.00] TO 155 [BENALTO4    240.00] CKT 00
   809.4    128 ELLERSLI    240.00    152 RED DEE4    240.00 10  0.16802   330.0  466.0 OPEN 152 [RED DEE4
240.00] TO 155 [BENALTO4    240.00] CKT 00
   814.8    128 ELLERSLI    240.00     81 BIGSTON4    240.00 14  0.15601   353.9  481.0 OPEN 355 [NOVA C27
138.00] TO 383 [JOFFRE 7    138.00] CKT 2
   827.8*   128 ELLERSLI    240.00     81 BIGSTON4    240.00 14  0.16047   348.2  481.0 OPEN 155 [BENALTO4
240.00] TO 161 [SARCEE 4    240.00] CKT 06
   835.5    152 RED DEE4    240.00    128 ELLERSLI    240.00 10 -0.17216  -322.2  466.0 OPEN 155 [BENALTO4
240.00] TO 420 [KEEPHIL4    240.00] CKT 90
   835.5    128 ELLERSLI    240.00    152 RED DEE4    240.00 10  0.17216   322.2  466.0 OPEN 155 [BENALTO4
240.00] TO 420 [KEEPHIL4    240.00] CKT 90
   839.1    128 ELLERSLI    240.00    152 RED DEE4    240.00 10  0.17197   321.7  466.0 OPEN 155 [BENALTO4
240.00] TO 420 [KEEPHIL4    240.00] CKT 03
   839.1    152 RED DEE4    240.00    128 ELLERSLI    240.00 10 -0.17197  -321.7  466.0 OPEN 155 [BENALTO4
240.00] TO 420 [KEEPHIL4    240.00] CKT 03
   839.5    124 HARMATT7    138.00    957 166L JNC    138.00 66  0.05358    33.0   78.0
------------------------------------------------------------------                    OPEN 155 [BENALTO4
240.00] TO 9000 [DIDSBURY_NEW240.00] CKT 18
   843.5    147 GAETZ  4    240.00    152 RED DEE4    240.00 14  0.16606   325.9  466.0 OPEN 152 [RED DEE4
240.00] TO 155 [BENALTO4    240.00] CKT 00
   843.8    155 BENALTO4    240.00    135 SUNDANC4    240.00 22 -0.15092  -338.7  466.0 OPEN 147 [GAETZ  4
240.00] TO 152 [RED DEE4    240.00] CKT 14
   843.8    135 SUNDANC4    240.00    155 BENALTO4    240.00 22  0.15092   338.7  466.0 OPEN 147 [GAETZ  4
240.00] TO 152 [RED DEE4    240.00] CKT 14
   844.3    155 BENALTO4    240.00    135 SUNDANC4    240.00 26 -0.15062  -353.8  481.0 OPEN 155 [BENALTO4
240.00] TO 995 [W.GRN TP    240.00] CKT 95
   844.3    135 SUNDANC4    240.00    155 BENALTO4    240.00 26  0.15062   353.8  481.0 OPEN 155 [BENALTO4
240.00] TO 995 [W.GRN TP    240.00] CKT 95
   846.7    123 DIDSBURY    138.00    982 MADDEN T    138.00 80  0.03417    93.1  122.0 OPEN 147 [GAETZ  4
240.00] TO 152 [RED DEE4    240.00] CKT 14
   847.0    128 ELLERSLI    240.00    152 RED DEE4    240.00 10  0.17581   317.1  466.0 OPEN 147 [GAETZ  4
240.00] TO 152 [RED DEE4    240.00] CKT 14
   847.0    152 RED DEE4    240.00    128 ELLERSLI    240.00 10 -0.17581  -317.1  466.0 OPEN 147 [GAETZ  4
240.00] TO 152 [RED DEE4    240.00] CKT 14
   867.6    155 BENALTO4    240.00    161 SARCEE 4    240.00 06  0.13498   331.9  449.0 OPEN 152 [RED DEE4
240.00] TO 155 [BENALTO4    240.00] CKT 00
   868.3     81 BIGSTON4    240.00    147 GAETZ  4    240.00 14  0.20310   322.6  499.0 OPEN 152 [RED DEE4
240.00] TO 128 [ELLERSLI    240.00] CKT 10
   878.9    155 BENALTO4    240.00    161 SARCEE 4    240.00 28  0.13497   330.4  449.0 OPEN 152 [RED DEE4
240.00] TO 155 [BENALTO4    240.00] CKT 00
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   881.2    155 BENALTO4    240.00    161 SARCEE 4    240.00 06  0.14297   323.0  449.0 OPEN 152 [RED DEE4
240.00] TO 988 [CROSSF T    240.00] CKT 01
   891.9    155 BENALTO4    240.00    161 SARCEE 4    240.00 28  0.14295   321.5  449.0 OPEN 152 [RED DEE4
240.00] TO 988 [CROSSF T    240.00] CKT 01
   900.6    123 DIDSBURY    138.00    982 MADDEN T    138.00 80  0.03250    92.7  122.0 OPEN 152 [RED DEE4
240.00] TO 155 [BENALTO4    240.00] CKT 00
   913.6     20 EDSON  7    138.00     39 CYNTHIA7    138.00 02  0.03228    55.5   85.0 OPEN 155 [BENALTO4
240.00] TO 135 [SUNDANC4    240.00] CKT 26
   913.9    123 DIDSBURY    138.00    982 MADDEN T    138.00 80  0.03177    93.0  122.0
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                                                                                          OPEN 152 [RED DEE4
240.00] TO 1422 [NEVIS  4    240.00] CKT 12
   916.0     20 EDSON  7    138.00     39 CYNTHIA7    138.00 02  0.03226    55.4   85.0 OPEN 155 [BENALTO4
240.00] TO 135 [SUNDANC4    240.00] CKT 22
   918.2    152 RED DEE4    240.00    988 CROSSF T    240.00 01  0.14559   274.3  408.0
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                                                                                          OPEN 152 [RED DEE4
240.00] TO 1422 [NEVIS  4    240.00] CKT 12
   924.9    155 BENALTO4    240.00    420 KEEPHIL4    240.00 90 -0.14047  -336.1  466.0 OPEN 155 [BENALTO4
240.00] TO 135 [SUNDANC4    240.00] CKT 26
   924.9    420 KEEPHIL4    240.00    155 BENALTO4    240.00 90  0.14047   336.1  466.0 OPEN 155 [BENALTO4
240.00] TO 135 [SUNDANC4    240.00] CKT 26
   926.2    420 KEEPHIL4    240.00    155 BENALTO4    240.00 90  0.14042   335.9  466.0 OPEN 155 [BENALTO4
240.00] TO 135 [SUNDANC4    240.00] CKT 22
   926.2    155 BENALTO4    240.00    420 KEEPHIL4    240.00 90 -0.14042  -335.9  466.0 OPEN 155 [BENALTO4
240.00] TO 135 [SUNDANC4    240.00] CKT 22
   927.3    155 BENALTO4    240.00    161 SARCEE 4    240.00 06  0.13992   319.2  449.0 OPEN 152 [RED DEE4
240.00] TO 160 [JANET  4    240.00] CKT 29
   927.5    155 BENALTO4    240.00    161 SARCEE 4    240.00 06  0.13992   319.2  449.0 OPEN 152 [RED DEE4
240.00] TO 160 [JANET  4    240.00] CKT 25
   932.4    155 BENALTO4    240.00    135 SUNDANC4    240.00 22 -0.14717  -328.8  466.0 OPEN 93 [WETASKI7
138.00] TO 95 [PONOKA 7    138.00] CKT 16
   932.4    135 SUNDANC4    240.00    155 BENALTO4    240.00 22  0.14717   328.8  466.0 OPEN 93 [WETASKI7
138.00] TO 95 [PONOKA 7    138.00] CKT 16
   932.6     25 ENTWIST8     69.000     28 MOON LA8    69.000 29  0.00804    21.5   29.0 OPEN 155 [BENALTO4
240.00] TO 135 [SUNDANC4    240.00] CKT 26
   934.8     25 ENTWIST8     69.000     28 MOON LA8    69.000 29  0.00803    21.5   29.0 OPEN 155 [BENALTO4
240.00] TO 135 [SUNDANC4    240.00] CKT 22
   935.7    155 BENALTO4    240.00    135 SUNDANC4    240.00 26 -0.15118  -339.5  481.0 OPEN 147 [GAETZ  4
240.00] TO 152 [RED DEE4    240.00] CKT 14
   935.7    135 SUNDANC4    240.00    155 BENALTO4    240.00 26  0.15118   339.5  481.0 OPEN 147 [GAETZ  4
240.00] TO 152 [RED DEE4    240.00] CKT 14
   938.3    155 BENALTO4    240.00    161 SARCEE 4    240.00 28  0.13991   317.7  449.0 OPEN 152 [RED DEE4
240.00] TO 160 [JANET  4    240.00] CKT 29
   938.4    155 BENALTO4    240.00    161 SARCEE 4    240.00 28  0.13990   317.7  449.0 OPEN 152 [RED DEE4
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240.00] TO 160 [JANET  4    240.00] CKT 25
   944.1    420 KEEPHIL4    240.00    155 BENALTO4    240.00 90  0.14259   331.4  466.0 OPEN 152 [RED DEE4
240.00] TO 128 [ELLERSLI    240.00] CKT 10
   944.1    155 BENALTO4    240.00    420 KEEPHIL4    240.00 90 -0.14259  -331.4  466.0 OPEN 152 [RED DEE4
240.00] TO 128 [ELLERSLI    240.00] CKT 10
   945.3    155 BENALTO4    240.00    135 SUNDANC4    240.00 22 -0.14515  -328.8  466.0 OPEN 152 [RED DEE4
240.00] TO 988 [CROSSF T    240.00] CKT 01
   945.3    135 SUNDANC4    240.00    155 BENALTO4    240.00 22  0.14515   328.8  466.0 OPEN 152 [RED DEE4
240.00] TO 988 [CROSSF T    240.00] CKT 01
   949.8*   135 SUNDANC4    240.00    155 BENALTO4    240.00 22  0.14717   326.2  466.0 OPEN 95 [PONOKA 7
138.00] TO 116 [W LACOMB    138.00] CKT 80
   949.8*   155 BENALTO4    240.00    135 SUNDANC4    240.00 22 -0.14717  -326.2  466.0 OPEN 95 [PONOKA 7
138.00] TO 116 [W LACOMB    138.00] CKT 80
   951.5    147 GAETZ  4    240.00    152 RED DEE4    240.00 14  0.16816   306.0  466.0 OPEN 115 [S RED DE
138.00] TO 119 [N RED D7    138.00] CKT 80
   953.9    420 KEEPHIL4    240.00    155 BENALTO4    240.00 03  0.13925   333.2  466.0 OPEN 155 [BENALTO4
240.00] TO 135 [SUNDANC4    240.00] CKT 26
   953.9    155 BENALTO4    240.00    420 KEEPHIL4    240.00 03 -0.13925  -333.2  466.0 OPEN 155 [BENALTO4
240.00] TO 135 [SUNDANC4    240.00] CKT 26
   955.1    420 KEEPHIL4    240.00    155 BENALTO4    240.00 03  0.13921   333.0  466.0 OPEN 155 [BENALTO4
240.00] TO 135 [SUNDANC4    240.00] CKT 22
   955.1    155 BENALTO4    240.00    420 KEEPHIL4    240.00 03 -0.13921  -333.0  466.0 OPEN 155 [BENALTO4
240.00] TO 135 [SUNDANC4    240.00] CKT 22
   963.1     68 N HOLDE7    138.00     65 BARDO  7    138.00 74 -0.01954   -66.2   85.0 OPEN 155 [BENALTO4
240.00] TO 135 [SUNDANC4    240.00] CKT 26
   964.3     68 N HOLDE7    138.00     65 BARDO  7    138.00 74 -0.01954   -66.2   85.0 OPEN 155 [BENALTO4
240.00] TO 135 [SUNDANC4    240.00] CKT 22
   967.4     68 N HOLDE7    138.00     65 BARDO  7    138.00 74 -0.02124   -64.4   85.0 OPEN 93 [WETASKI7
138.00] TO 95 [PONOKA 7    138.00] CKT 16
   971.0*   123 DIDSBURY    138.00    982 MADDEN T    138.00 80  0.03132    91.6  122.0 OPEN 205 [AMOCO R7
138.00] TO 890 [AMOCO TP    138.00] CKT 19
   971.5    152 RED DEE4    240.00    155 BENALTO4    240.00 00 -0.16099  -427.6  584.0
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                                                                                      OPEN 155 [BENALTO4
240.00] TO 9000 [DIDSBURY_NEW240.00] CKT 18
   972.6    155 BENALTO4    240.00    420 KEEPHIL4    240.00 03 -0.14135  -328.5  466.0 OPEN 152 [RED DEE4
240.00] TO 128 [ELLERSLI    240.00] CKT 10
   972.6    420 KEEPHIL4    240.00    155 BENALTO4    240.00 03  0.14135   328.5  466.0 OPEN 152 [RED DEE4
240.00] TO 128 [ELLERSLI    240.00] CKT 10
   975.2    123 DIDSBURY    138.00    957 166L JNC    138.00 66 -0.05358   -28.8   81.0
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                                                                                      OPEN 155 [BENALTO4
240.00] TO 9000 [DIDSBURY_NEW240.00] CKT 18
   986.7    117 RED DE A    138.00    118 RED DE B    138.00 1   0.04433    77.3  121.0 OPEN 155 [BENALTO4
240.00] TO 135 [SUNDANC4    240.00] CKT 26
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   988.1    117 RED DE A    138.00    118 RED DE B    138.00 1   0.04431    77.2  121.0 OPEN 155 [BENALTO4
240.00] TO 135 [SUNDANC4    240.00] CKT 22
  1004.2    152 RED DEE4    240.00    988 CROSSF T    240.00 01  0.14770   259.7  408.0 OPEN 118 [RED DE B
138.00] TO 120 [INNISFA7    138.00] CKT 80
  1014.5    117 RED DE A    138.00    118 RED DE B    138.00 1   0.04519    75.2  121.0 OPEN 152 [RED DEE4
240.00] TO 988 [CROSSF T    240.00] CKT 01
  1018.7    152 RED DEE4    240.00    988 CROSSF T    240.00 01  0.14655   258.7  408.0 OPEN 123 [DIDSBURY
138.00] TO 982 [MADDEN T    138.00] CKT 80
  1019.0    155 BENALTO4    240.00    420 KEEPHIL4    240.00 90 -0.14074  -322.6  466.0 OPEN 147 [GAETZ  4
240.00] TO 81 [BIGSTON4    240.00] CKT 14
  1019.0    420 KEEPHIL4    240.00    155 BENALTO4    240.00 90  0.14074   322.6  466.0 OPEN 147 [GAETZ  4
240.00] TO 81 [BIGSTON4    240.00] CKT 14
  1020.2*   152 RED DEE4    240.00    988 CROSSF T    240.00 01  0.14770   257.3  408.0 OPEN 120 [INNISFA7
138.00] TO 121 [OLDS   7    138.00] CKT 80
  1026.6    155 BENALTO4    240.00    135 SUNDANC4    240.00 26 -0.14742  -329.7  481.0 OPEN 93 [WETASKI7
138.00] TO 95 [PONOKA 7    138.00] CKT 16
  1026.6    135 SUNDANC4    240.00    155 BENALTO4    240.00 26  0.14742   329.7  481.0 OPEN 93 [WETASKI7
138.00] TO 95 [PONOKA 7    138.00] CKT 16
  1034.5    152 RED DEE4    240.00    128 ELLERSLI    240.00 10 -0.16040  -300.1  466.0 OPEN 155 [BENALTO4
240.00] TO 995 [W.GRN TP    240.00] CKT 95
  1034.5    128 ELLERSLI    240.00    152 RED DEE4    240.00 10  0.16040   300.1  466.0 OPEN 155 [BENALTO4
240.00] TO 995 [W.GRN TP    240.00] CKT 95
  1035.8    147 GAETZ  4    240.00    152 RED DEE4    240.00 14  0.16547   294.6  466.0 OPEN 155 [BENALTO4
240.00] TO 135 [SUNDANC4    240.00] CKT 26
  1036.9    147 GAETZ  4    240.00    152 RED DEE4    240.00 14  0.16543   294.5  466.0 OPEN 155 [BENALTO4
240.00] TO 135 [SUNDANC4    240.00] CKT 22
  1040.1    147 GAETZ  4    240.00    152 RED DEE4    240.00 14  0.16816   291.1  466.0 OPEN 115 [S RED DE
138.00] TO 117 [RED DE A    138.00] CKT 80
  1040.9    155 BENALTO4    240.00    135 SUNDANC4    240.00 26 -0.14540  -329.7  481.0 OPEN 152 [RED DEE4
240.00] TO 988 [CROSSF T    240.00] CKT 01
  1040.9    135 SUNDANC4    240.00    155 BENALTO4    240.00 26  0.14540   329.7  481.0 OPEN 152 [RED DEE4
240.00] TO 988 [CROSSF T    240.00] CKT 01
  1041.2     68 N HOLDE7    138.00     65 BARDO  7    138.00 74 -0.01900   -65.2   85.0 OPEN 155 [BENALTO4
240.00] TO 420 [KEEPHIL4    240.00] CKT 90
  1043.4     68 N HOLDE7    138.00     65 BARDO  7    138.00 74 -0.02025   -63.9   85.0
-------------------------------------------------------------------                    OPEN 9000
[DIDSBURY_NEW240.00] TO 187 [BEDDING1    240.00] CKT 18
  1044.1*   155 BENALTO4    240.00    135 SUNDANC4    240.00 26 -0.14742  -327.1  481.0 OPEN 95 [PONOKA 7
138.00] TO 116 [W LACOMB    138.00] CKT 80
  1044.1*   135 SUNDANC4    240.00    155 BENALTO4    240.00 26  0.14742   327.1  481.0 OPEN 95 [PONOKA 7
138.00] TO 116 [W LACOMB    138.00] CKT 80
  1045.2*    68 N HOLDE7    138.00     65 BARDO  7    138.00 74 -0.01898   -65.2   85.0 OPEN 155 [BENALTO4
240.00] TO 420 [KEEPHIL4    240.00] CKT 03
  1047.9    155 BENALTO4    240.00    420 KEEPHIL4    240.00 03 -0.13952  -319.8  466.0 OPEN 147 [GAETZ  4
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240.00] TO 81 [BIGSTON4    240.00] CKT 14
  1047.9    420 KEEPHIL4    240.00    155 BENALTO4    240.00 03  0.13952   319.8  466.0 OPEN 147 [GAETZ  4
240.00] TO 81 [BIGSTON4    240.00] CKT 14
  1049.3    128 ELLERSLI    240.00    152 RED DEE4    240.00 10  0.16366   294.3  466.0
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                                                                                    OPEN 155 [BENALTO4
240.00] TO 9000 [DIDSBURY_NEW240.00] CKT 18
  1049.3    152 RED DEE4    240.00    128 ELLERSLI    240.00 10 -0.16366  -294.3  466.0
------------------------------------------------------------------
                                                                                    OPEN 155 [BENALTO4
240.00] TO 9000 [DIDSBURY_NEW240.00] CKT 18
  1074.3*   152 RED DEE4    240.00    128 ELLERSLI    240.00 10 -0.16341  -290.4  466.0
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                                                                                    OPEN 9000
[DIDSBURY_NEW240.00] TO 187 [BEDDING1    240.00] CKT 18
  1074.3*   128 ELLERSLI    240.00    152 RED DEE4    240.00 10  0.16341   290.4  466.0
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                                                                                    OPEN 9000
[DIDSBURY_NEW240.00] TO 187 [BEDDING1    240.00] CKT 18
  1084.9    117 RED DE A    138.00    118 RED DE B    138.00 1   0.04282    74.5  121.0 OPEN 155 [BENALTO4
240.00] TO 420 [KEEPHIL4    240.00] CKT 90
  1089.8    117 RED DE A    138.00    118 RED DE B    138.00 1   0.04276    74.4  121.0 OPEN 155 [BENALTO4
240.00] TO 420 [KEEPHIL4    240.00] CKT 03
  1097.1*   117 RED DE A    138.00    118 RED DE B    138.00 1   0.04366    73.1  121.0 OPEN 152 [RED DEE4
240.00] TO 160 [JANET  4    240.00] CKT 29
  1103.6    147 GAETZ  4    240.00    152 RED DEE4    240.00 14  0.16157   287.7  466.0 OPEN 155 [BENALTO4
240.00] TO 420 [KEEPHIL4    240.00] CKT 90
  1107.2    147 GAETZ  4    240.00    152 RED DEE4    240.00 14  0.16141   287.3  466.0 OPEN 155 [BENALTO4
240.00] TO 420 [KEEPHIL4    240.00] CKT 03
  1111.4    152 RED DEE4    240.00    155 BENALTO4    240.00 00 -0.14388  -424.1  584.0 OPEN 152 [RED DEE4
240.00] TO 128 [ELLERSLI    240.00] CKT 10
  1113.0    107 SUNDRE 7    138.00    883 EAGLE TP    138.00 19  0.05358    60.4  120.0
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                                                                                    OPEN 155 [BENALTO4
240.00] TO 9000 [DIDSBURY_NEW240.00] CKT 18
  1122.0    155 BENALTO4    240.00    420 KEEPHIL4    240.00 90 -0.12916  -321.1  466.0 OPEN 155 [BENALTO4
240.00] TO 995 [W.GRN TP    240.00] CKT 95
  1122.0    420 KEEPHIL4    240.00    155 BENALTO4    240.00 90  0.12916   321.1  466.0 OPEN 155 [BENALTO4
240.00] TO 995 [W.GRN TP    240.00] CKT 95
  1127.7     91 NISKU  7    138.00     93 WETASKI7    138.00 58  0.03253    59.3   96.0 OPEN 374 [BIGSTON7
138.00] TO 804 [803/804X    138.00] CKT 04
  1134.1     91 NISKU  7    138.00     93 WETASKI7    138.00 58  0.03253    59.1   96.0 OPEN 93 [WETASKI7
138.00] TO 803 [803/804N    138.00] CKT 04
  1141.4    155 BENALTO4    240.00    161 SARCEE 4    240.00 06  0.12992   300.7  449.0 OPEN 152 [RED DEE4
240.00] TO 128 [ELLERSLI    240.00] CKT 10
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  1144.5    155 BENALTO4    240.00    161 SARCEE 4    240.00 06  0.12839   302.1  449.0 OPEN 123 [DIDSBURY
138.00] TO 982 [MADDEN T    138.00] CKT 80
  1153.2    155 BENALTO4    240.00    161 SARCEE 4    240.00 28  0.12991   299.2  449.0 OPEN 152 [RED DEE4
240.00] TO 128 [ELLERSLI    240.00] CKT 10
  1153.5    155 BENALTO4    240.00    420 KEEPHIL4    240.00 03 -0.12805  -318.3  466.0 OPEN 155 [BENALTO4
240.00] TO 995 [W.GRN TP    240.00] CKT 95
  1153.5    420 KEEPHIL4    240.00    155 BENALTO4    240.00 03  0.12805   318.3  466.0 OPEN 155 [BENALTO4
240.00] TO 995 [W.GRN TP    240.00] CKT 95
  1153.7    123 DIDSBURY    138.00   9000 DIDSBURY_NEW240.00 T1  0.11613    66.0  200.0
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                                                                                      OPEN 155 [BENALTO4
240.00] TO 9000 [DIDSBURY_NEW240.00] CKT 18
  1155.2    115 S RED DE    138.00    119 N RED D7    138.00 80 -0.11660  -237.3  372.0 OPEN 147 [GAETZ  4
240.00] TO 152 [RED DEE4    240.00] CKT 14
  1156.4    155 BENALTO4    240.00    161 SARCEE 4    240.00 28  0.12837   300.5  449.0 OPEN 123 [DIDSBURY
138.00] TO 982 [MADDEN T    138.00] CKT 80
  1162.7    121 OLDS   7    138.00    123 DIDSBURY    138.00 80  0.04939    64.6  122.0 OPEN 107 [SUNDRE 7
138.00] TO 370 [SHELL C7    138.00] CKT 19
  1163.0*   155 BENALTO4    240.00    161 SARCEE 4    240.00 06  0.12544   303.1  449.0
------------------------------------------------------------------
                                                                                      OPEN 152 [RED DEE4
240.00] TO 1422 [NEVIS  4    240.00] CKT 12
  1166.4    147 GAETZ  4    240.00    152 RED DEE4    240.00 14  0.16603   272.3  466.0
------------------------------------------------------------------
                                                                                      OPEN 9000
[DIDSBURY_NEW240.00] TO 187 [BEDDING1    240.00] CKT 18
  1173.2     81 BIGSTON4    240.00    147 GAETZ  4    240.00 14  0.17918   288.8  499.0 OPEN 155 [BENALTO4
240.00] TO 135 [SUNDANC4    240.00] CKT 26
  1174.3     81 BIGSTON4    240.00    147 GAETZ  4    240.00 14  0.17914   288.6  499.0 OPEN 155 [BENALTO4
240.00] TO 135 [SUNDANC4    240.00] CKT 22
  1175.3*   155 BENALTO4    240.00    161 SARCEE 4    240.00 28  0.12542   301.6  449.0
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                                                                                      OPEN 152 [RED DEE4
240.00] TO 1422 [NEVIS  4    240.00] CKT 12
  1197.0    107 SUNDRE 7    138.00    370 SHELL C7    138.00 19 -0.03633   -76.5  120.0 OPEN 118 [RED DE B
138.00] TO 120 [INNISFA7    138.00] CKT 80
  1225.4*   147 GAETZ  4    240.00    152 RED DEE4    240.00 14  0.15645   274.3  466.0 OPEN 118 [RED DE B
138.00] TO 120 [INNISFA7    138.00] CKT 80
  1228.2    420 KEEPHIL4    240.00    155 BENALTO4    240.00 90  0.12951   306.9  466.0 OPEN 147 [GAETZ  4
240.00] TO 152 [RED DEE4    240.00] CKT 14
  1228.2    155 BENALTO4    240.00    420 KEEPHIL4    240.00 90 -0.12951  -306.9  466.0 OPEN 147 [GAETZ  4
240.00] TO 152 [RED DEE4    240.00] CKT 14
  1229.5    121 OLDS   7    138.00    123 DIDSBURY    138.00 80  0.04913    61.6  122.0 OPEN 147 [GAETZ  4
240.00] TO 152 [RED DEE4    240.00] CKT 14
  1242.8     81 BIGSTON4    240.00    147 GAETZ  4    240.00 14  0.17501   281.5  499.0 OPEN 155 [BENALTO4
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240.00] TO 420 [KEEPHIL4    240.00] CKT 90
  1244.0     81 BIGSTON4    240.00    147 GAETZ  4    240.00 14  0.17027   287.2  499.0 OPEN 152 [RED DEE4
240.00] TO 155 [BENALTO4    240.00] CKT 00
  1244.2    121 OLDS   7    138.00    123 DIDSBURY    138.00 80  0.04883    61.2  122.0 OPEN 152 [RED DEE4
240.00] TO 988 [CROSSF T    240.00] CKT 01
  1246.8     81 BIGSTON4    240.00    147 GAETZ  4    240.00 14  0.17482   281.0  499.0 OPEN 155 [BENALTO4
240.00] TO 420 [KEEPHIL4    240.00] CKT 03
  1259.6    155 BENALTO4    240.00    420 KEEPHIL4    240.00 03 -0.12839  -304.3  466.0 OPEN 147 [GAETZ  4
240.00] TO 152 [RED DEE4    240.00] CKT 14
  1259.6    420 KEEPHIL4    240.00    155 BENALTO4    240.00 03  0.12839   304.3  466.0 OPEN 147 [GAETZ  4
240.00] TO 152 [RED DEE4    240.00] CKT 14
  1272.3    152 RED DEE4    240.00    160 JANET  4    240.00 29  0.15073   274.2  466.0 OPEN 152 [RED DEE4
240.00] TO 988 [CROSSF T    240.00] CKT 01
  1278.6     81 BIGSTON4    240.00    374 BIGSTON7    138.00 T1  0.03580   154.2  200.0 OPEN 147 [GAETZ  4
240.00] TO 81 [BIGSTON4    240.00] CKT 14
  1322.0    107 SUNDRE 7    138.00    370 SHELL C7    138.00 19 -0.03633   -72.0  120.0 OPEN 120 [INNISFA7
138.00] TO 121 [OLDS   7    138.00] CKT 80
  1326.4    121 OLDS   7    138.00    123 DIDSBURY    138.00 80  0.04734    59.2  122.0 OPEN 152 [RED DEE4
240.00] TO 160 [JANET  4    240.00] CKT 29
  1326.6    121 OLDS   7    138.00    123 DIDSBURY    138.00 80  0.04734    59.2  122.0 OPEN 152 [RED DEE4
240.00] TO 160 [JANET  4    240.00] CKT 25
  1338.8    152 RED DEE4    240.00    155 BENALTO4    240.00 00 -0.15153  -381.1  584.0
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                                                                                        OPEN 9000
[DIDSBURY_NEW240.00] TO 187 [BEDDING1    240.00] CKT 18
  1342.6    155 BENALTO4    240.00    420 KEEPHIL4    240.00 90 -0.12564  -297.3  466.0 OPEN 93 [WETASKI7
138.00] TO 95 [PONOKA 7    138.00] CKT 16
  1342.6    420 KEEPHIL4    240.00    155 BENALTO4    240.00 90  0.12564   297.3  466.0 OPEN 93 [WETASKI7
138.00] TO 95 [PONOKA 7    138.00] CKT 16
  1351.5    121 OLDS   7    138.00    123 DIDSBURY    138.00 80  0.04492    61.3  122.0 OPEN 99 [BENALTO7
138.00] TO 882 [SCHRA TP    138.00] CKT 48
  1352.1    152 RED DEE4    240.00    160 JANET  4    240.00 29  0.14602   268.6  466.0 OPEN 152 [RED DEE4
240.00] TO 160 [JANET  4    240.00] CKT 25
  1355.9    155 BENALTO4    240.00    420 KEEPHIL4    240.00 90 -0.12411  -297.7  466.0 OPEN 152 [RED DEE4
240.00] TO 988 [CROSSF T    240.00] CKT 01
  1355.9    420 KEEPHIL4    240.00    155 BENALTO4    240.00 90  0.12411   297.7  466.0 OPEN 152 [RED DEE4
240.00] TO 988 [CROSSF T    240.00] CKT 01
  1357.1    121 OLDS   7    138.00    123 DIDSBURY    138.00 80  0.04939    55.0  122.0 OPEN 107 [SUNDRE 7
138.00] TO 883 [EAGLE TP    138.00] CKT 19
  1360.2*   155 BENALTO4    240.00    420 KEEPHIL4    240.00 90 -0.12564  -295.1  466.0 OPEN 95 [PONOKA 7
138.00] TO 116 [W LACOMB    138.00] CKT 80
  1360.2*   420 KEEPHIL4    240.00    155 BENALTO4    240.00 90  0.12564   295.1  466.0 OPEN 95 [PONOKA 7
138.00] TO 116 [W LACOMB    138.00] CKT 80
  1360.7    124 HARMATT7    138.00    883 EAGLE TP    138.00 19 -0.05358   -47.1  120.0
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138.00] TO 804 [803/804X    138.00] CKT 04
  1450.9     25 ENTWIST8    69.000     28 MOON LA8    69.000 29  0.00711    18.7   29.0 OPEN 147 [GAETZ  4
240.00] TO 81 [BIGSTON4    240.00] CKT 14
  1455.7    152 RED DEE4    240.00    160 JANET  4    240.00 25  0.14599   268.5  481.0 OPEN 152 [RED DEE4
240.00] TO 160 [JANET  4    240.00] CKT 29
  1462.0    107 SUNDRE 7    138.00    370 SHELL C7    138.00 19 -0.03633   -66.9  120.0 OPEN 121 [OLDS   7
138.00] TO 123 [DIDSBURY    138.00] CKT 80
  1466.0    152 RED DEE4    240.00    160 JANET  4    240.00 25  0.15392   255.3  481.0
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                                                                                      OPEN 9000
[DIDSBURY_NEW240.00] TO 187 [BEDDING1    240.00] CKT 18
  1492.3    152 RED DEE4    240.00    160 JANET  4    240.00 29  0.14232   253.6  466.0
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                                                                                      OPEN 155 [BENALTO4
240.00] TO 9000 [DIDSBURY_NEW240.00] CKT 18
  1505.3    152 RED DEE4    240.00    160 JANET  4    240.00 29  0.13681   260.1  466.0 OPEN 155 [BENALTO4
240.00] TO 161 [SARCEE 4    240.00] CKT 06
  1506.9    152 RED DEE4    240.00    160 JANET  4    240.00 29  0.13681   259.8  466.0 OPEN 155 [BENALTO4
240.00] TO 161 [SARCEE 4    240.00] CKT 28
  1533.4     20 EDSON  7    138.00     39 CYNTHIA7    138.00 02  0.02741    43.0   85.0 OPEN 152 [RED DEE4
240.00] TO 128 [ELLERSLI    240.00] CKT 10
  1581.4     20 EDSON  7    138.00     39 CYNTHIA7    138.00 02  0.02728    41.9   85.0 OPEN 147 [GAETZ  4
240.00] TO 81 [BIGSTON4    240.00] CKT 14
  1598.8    152 RED DEE4    240.00    160 JANET  4    240.00 25  0.14228   253.5  481.0
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                                                                                      OPEN 155 [BENALTO4
240.00] TO 9000 [DIDSBURY_NEW240.00] CKT 18
  1616.1    152 RED DEE4    240.00    160 JANET  4    240.00 25  0.13677   260.0  481.0 OPEN 155 [BENALTO4
240.00] TO 161 [SARCEE 4    240.00] CKT 06
  1617.6    152 RED DEE4    240.00    160 JANET  4    240.00 25  0.13677   259.8  481.0 OPEN 155 [BENALTO4
240.00] TO 161 [SARCEE 4    240.00] CKT 28
  1696.4    120 INNISFA7    138.00    121 OLDS   7    138.00 80  0.07562   123.7  252.0
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                                                                                      OPEN 155 [BENALTO4
240.00] TO 9000 [DIDSBURY_NEW240.00] CKT 18
  1698.8    152 RED DEE4    240.00    155 BENALTO4    240.00 00 -0.12095  -378.5  584.0 OPEN 147 [GAETZ  4
240.00] TO 152 [RED DEE4    240.00] CKT 14
  1704.2    123 DIDSBURY    138.00   9000 DIDSBURY_NEW240.00 T1 -0.04097  -130.2  200.0
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                                                                                      OPEN 9000
[DIDSBURY_NEW240.00] TO 187 [BEDDING1    240.00] CKT 18
  1733.9    107 SUNDRE 7    138.00    370 SHELL C7    138.00 19 -0.03146   -65.5  120.0 OPEN 155 [BENALTO4
240.00] TO 161 [SARCEE 4    240.00] CKT 06
  1735.4    107 SUNDRE 7    138.00    370 SHELL C7    138.00 19 -0.03146   -65.4  120.0 OPEN 155 [BENALTO4
240.00] TO 161 [SARCEE 4    240.00] CKT 28
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  1743.2     91 NISKU  7    138.00     93 WETASKI7    138.00 58  0.02645    49.9   96.0 OPEN 81 [BIGSTON4
240.00] TO 374 [BIGSTON7    138.00] CKT T1
  1745.7    124 HARMATT7    138.00    957 166L JNC    138.00 66  0.03633    14.6   78.0 OPEN 118 [RED DE B
138.00] TO 120 [INNISFA7    138.00] CKT 80
  1789.8     20 EDSON  7    138.00     39 CYNTHIA7    138.00 02  0.02550    39.4   85.0 OPEN 147 [GAETZ  4
240.00] TO 152 [RED DEE4    240.00] CKT 14
  1817.4    152 RED DEE4    240.00    160 JANET  4    240.00 29  0.12210   244.1  466.0
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                                                                                    OPEN 152 [RED DEE4
240.00] TO 1422 [NEVIS  4    240.00] CKT 12
  1843.1     99 BENALTO7    138.00    882 SCHRA TP    138.00 48  0.03666    99.4  167.0
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                                                                                    OPEN 155 [BENALTO4
240.00] TO 9000 [DIDSBURY_NEW240.00] CKT 18
  1870.7    124 HARMATT7    138.00    957 166L JNC    138.00 66  0.03633    10.0   78.0 OPEN 120 [INNISFA7
138.00] TO 121 [OLDS   7    138.00] CKT 80
  1871.4     91 NISKU  7    138.00     93 WETASKI7    138.00 58  0.03319    33.9   96.0 OPEN 152 [RED DEE4
240.00] TO 128 [ELLERSLI    240.00] CKT 10
  1884.8    107 SUNDRE 7    138.00    370 SHELL C7    138.00 19 -0.02780   -67.6  120.0 OPEN 205 [AMOCO R7
138.00] TO 890 [AMOCO TP    138.00] CKT 19
  1885.4    107 SUNDRE 7    138.00    370 SHELL C7    138.00 19 -0.03075   -62.0  120.0 OPEN 152 [RED DEE4
240.00] TO 988 [CROSSF T    240.00] CKT 01
  1897.9     20 EDSON  7    138.00     39 CYNTHIA7    138.00 02  0.02465    38.2   85.0 OPEN 155 [BENALTO4
240.00] TO 420 [KEEPHIL4    240.00] CKT 90
  1901.1     25 ENTWIST8    69.000     28 MOON LA8    69.000 29  0.00617    17.3   29.0 BASE CASE
  1908.2    152 RED DEE4    240.00    160 JANET  4    240.00 29  0.12387   229.6  466.0 OPEN 118 [RED DE B
138.00] TO 120 [INNISFA7    138.00] CKT 80
  1925.2    152 RED DEE4    240.00    160 JANET  4    240.00 29  0.12387   227.5  466.0 OPEN 120 [INNISFA7
138.00] TO 121 [OLDS   7    138.00] CKT 80
  1926.9*   152 RED DEE4    240.00    160 JANET  4    240.00 29  0.12295   229.1  466.0 OPEN 123 [DIDSBURY
138.00] TO 982 [MADDEN T    138.00] CKT 80
  1941.5    152 RED DEE4    240.00    160 JANET  4    240.00 25  0.12206   244.0  481.0
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                                                                                    OPEN 152 [RED DEE4
240.00] TO 1422 [NEVIS  4    240.00] CKT 12
  1943.0    107 SUNDRE 7    138.00    370 SHELL C7    138.00 19 -0.02936   -62.9  120.0 OPEN 152 [RED DEE4
240.00] TO 155 [BENALTO4    240.00] CKT 00
  1945.7    123 DIDSBURY    138.00    957 166L JNC    138.00 66 -0.03633   -10.3   81.0 OPEN 118 [RED DE B
138.00] TO 120 [INNISFA7    138.00] CKT 80
  1956.0*   107 SUNDRE 7    138.00    370 SHELL C7    138.00 19 -0.03010   -61.1  120.0 OPEN 152 [RED DEE4
240.00] TO 160 [JANET  4    240.00] CKT 29
  1971.8     20 EDSON  7    138.00     39 CYNTHIA7    138.00 02  0.02424    37.2   85.0 BASE CASE
  2010.7    124 HARMATT7    138.00    957 166L JNC    138.00 66  0.03633     5.0   78.0 OPEN 121 [OLDS   7
138.00] TO 123 [DIDSBURY    138.00] CKT 80
  2030.5    152 RED DEE4    240.00    160 JANET  4    240.00 25  0.12383   229.6  481.0 OPEN 118 [RED DE B
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138.00] TO 120 [INNISFA7    138.00] CKT 80
  2033.8    104 STRACHA7    138.00    890 AMOCO TP    138.00 19  0.01611    87.2  120.0 OPEN 99 [BENALTO7
138.00] TO 882 [SCHRA TP    138.00] CKT 48
  2038.1     91 NISKU  7    138.00     93 WETASKI7    138.00 58  0.03127    32.3   96.0 OPEN 155 [BENALTO4
240.00] TO 135 [SUNDANC4    240.00] CKT 26
  2039.7     91 NISKU  7    138.00     93 WETASKI7    138.00 58  0.03126    32.2   96.0 OPEN 155 [BENALTO4
240.00] TO 135 [SUNDANC4    240.00] CKT 22
  2044.5    374 BIGSTON7    138.00    804 803/804X    138.00 04  0.01748    90.3  126.0 OPEN 147 [GAETZ  4
240.00] TO 152 [RED DEE4    240.00] CKT 14
  2047.6    152 RED DEE4    240.00    160 JANET  4    240.00 25  0.12383   227.5  481.0 OPEN 120 [INNISFA7
138.00] TO 121 [OLDS   7    138.00] CKT 80
  2050.1*   152 RED DEE4    240.00    160 JANET  4    240.00 25  0.12291   229.0  481.0 OPEN 123 [DIDSBURY
138.00] TO 982 [MADDEN T    138.00] CKT 80
  2061.1     20 EDSON  7    138.00     39 CYNTHIA7    138.00 02  0.02374    36.1   85.0 OPEN 155 [BENALTO4
240.00] TO 161 [SARCEE 4    240.00] CKT 28
  2061.4     20 EDSON  7    138.00     39 CYNTHIA7    138.00 02  0.02374    36.1   85.0 OPEN 155 [BENALTO4
240.00] TO 161 [SARCEE 4    240.00] CKT 06
  2070.8    123 DIDSBURY    138.00    957 166L JNC    138.00 66 -0.03633    -5.8   81.0 OPEN 120 [INNISFA7
138.00] TO 121 [OLDS   7    138.00] CKT 80
  2071.1     93 WETASKI7    138.00    803 803/804N    138.00 04 -0.01748   -89.8  126.0 OPEN 147 [GAETZ  4
240.00] TO 152 [RED DEE4    240.00] CKT 14
  2075.4     91 NISKU  7    138.00     93 WETASKI7    138.00 58  0.03274    28.0   96.0 OPEN 356 [BON GLE7
138.00] TO 365 [BUFORD 7    138.00] CKT 38
  2108.8*    20 EDSON  7    138.00     39 CYNTHIA7    138.00 02  0.02331    35.8   85.0
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240.00] TO 9000 [DIDSBURY_NEW240.00] CKT 18
  2149.0    107 SUNDRE 7    138.00    883 EAGLE TP    138.00 19  0.03633    41.9  120.0 OPEN 118 [RED DE B
138.00] TO 120 [INNISFA7    138.00] CKT 80
  2210.8    123 DIDSBURY    138.00    957 166L JNC    138.00 66 -0.03633    -0.7   81.0 OPEN 121 [OLDS   7
138.00] TO 123 [DIDSBURY    138.00] CKT 80
  2220.5     25 ENTWIST8    69.000     28 MOON LA8    69.000 29  0.00585    16.0   29.0 OPEN 152 [RED DEE4
240.00] TO 155 [BENALTO4    240.00] CKT 00
  2229.1     76 IPPL ST7    138.00   1491 BAT. RV7    138.00 01  0.03115    42.6  112.0
-------------------------------------------------------------------                    OPEN 152 [RED DEE4
240.00] TO 1422 [NEVIS  4    240.00] CKT 12
  2247.2     91 NISKU  7    138.00     93 WETASKI7    138.00 58  0.03274    22.4   96.0 OPEN 105 [PIGEON 7
138.00] TO 356 [BON GLE7    138.00] CKT 37
  2274.1    107 SUNDRE 7    138.00    883 EAGLE TP    138.00 19  0.03633    37.4  120.0 OPEN 120 [INNISFA7
138.00] TO 121 [OLDS   7    138.00] CKT 80
  2286.0     91 NISKU  7    138.00     93 WETASKI7    138.00 58  0.02950    28.6   96.0 OPEN 155 [BENALTO4
240.00] TO 420 [KEEPHIL4    240.00] CKT 90
  2290.4*    91 NISKU  7    138.00     93 WETASKI7    138.00 58  0.02947    28.5   96.0 OPEN 155 [BENALTO4
240.00] TO 420 [KEEPHIL4    240.00] CKT 03
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  2350.6   1383 VERMILO7    138.00     79 BUFFALO7    138.00 50  0.02727    49.9  114.0
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                                                                                OPEN 152 [RED DEE4
240.00] TO 1422 [NEVIS  4    240.00] CKT 12
  2354.8    119 N RED D7    138.00    148 GAETZ  7    138.00 78 -0.04451  -134.2  239.0 OPEN 147 [GAETZ  4
240.00] TO 152 [RED DEE4    240.00] CKT 14
  2354.8    119 N RED D7    138.00    148 GAETZ  7    138.00 68 -0.04451  -134.2  239.0 OPEN 147 [GAETZ  4
240.00] TO 152 [RED DEE4    240.00] CKT 14
  2367.6    124 HARMATT7    138.00    957 166L JNC    138.00 66  0.03146     3.5   78.0 OPEN 155 [BENALTO4
240.00] TO 161 [SARCEE 4    240.00] CKT 06
  2369.1    124 HARMATT7    138.00    957 166L JNC    138.00 66  0.03146     3.5   78.0 OPEN 155 [BENALTO4
240.00] TO 161 [SARCEE 4    240.00] CKT 28
  2414.1    107 SUNDRE 7    138.00    883 EAGLE TP    138.00 19  0.03633    32.3  120.0 OPEN 121 [OLDS   7
138.00] TO 123 [DIDSBURY    138.00] CKT 80
  2472.1    374 BIGSTON7    138.00    804 803/804X    138.00 04  0.01561    87.4  126.0 OPEN 152 [RED DEE4
240.00] TO 128 [ELLERSLI    240.00] CKT 10
  2477.2     99 BENALTO7    138.00    882 SCHRA TP    138.00 48  0.02408   107.4  167.0 OPEN 104 [STRACHA7
138.00] TO 890 [AMOCO TP    138.00] CKT 19
  2492.6    104 STRACHA7    138.00    890 AMOCO TP    138.00 19  0.01611    79.8  120.0 OPEN 370 [SHELL C7
138.00] TO 882 [SCHRA TP    138.00] CKT 48
  2501.9     93 WETASKI7    138.00    803 803/804N    138.00 04 -0.01561   -86.9  126.0 OPEN 152 [RED DEE4
240.00] TO 128 [ELLERSLI    240.00] CKT 10
  2511.0     93 WETASKI7    138.00     95 PONOKA 7    138.00 16  0.06925    78.1  252.0 OPEN 147 [GAETZ  4
240.00] TO 81 [BIGSTON4    240.00] CKT 14
  2514.4    124 HARMATT7    138.00    883 EAGLE TP    138.00 19 -0.03633   -28.7  120.0 OPEN 118 [RED DE B
138.00] TO 120 [INNISFA7    138.00] CKT 80
  2529.3     76 IPPL ST7    138.00   1491 BAT. RV7    138.00 01  0.03440    25.0  112.0 OPEN 147 [GAETZ  4
240.00] TO 81 [BIGSTON4    240.00] CKT 14
  2533.8    124 HARMATT7    138.00    957 166L JNC    138.00 66  0.03075     0.1   78.0 OPEN 152 [RED DEE4
240.00] TO 988 [CROSSF T    240.00] CKT 01
  2535.6    147 GAETZ  4    240.00    148 GAETZ  7    138.00 T2  0.05131    69.9  200.0 OPEN 147 [GAETZ  4
240.00] TO 152 [RED DEE4    240.00] CKT 14
  2556.8    370 SHELL C7    138.00    882 SCHRA TP    138.00 48 -0.03666   -80.3  174.0
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                                                                                OPEN 155 [BENALTO4
240.00] TO 9000 [DIDSBURY_NEW240.00] CKT 18
  2574.5   1383 VERMILO7    138.00     79 BUFFALO7    138.00 50  0.02922    38.8  114.0 OPEN 152 [RED DEE4
240.00] TO 128 [ELLERSLI    240.00] CKT 10
  2583.4     76 IPPL ST7    138.00   1491 BAT. RV7    138.00 01  0.03360    25.2  112.0 OPEN 152 [RED DEE4
240.00] TO 128 [ELLERSLI    240.00] CKT 10
  2591.0    147 GAETZ  4    240.00    148 GAETZ  7    138.00 T1  0.05058    68.9  200.0 OPEN 147 [GAETZ  4
240.00] TO 152 [RED DEE4    240.00] CKT 14
  2598.7    123 DIDSBURY    138.00    957 166L JNC    138.00 66 -0.03146     0.7   81.0 OPEN 155 [BENALTO4
240.00] TO 161 [SARCEE 4    240.00] CKT 06
  2600.1    123 DIDSBURY    138.00    957 166L JNC    138.00 66 -0.03146     0.8   81.0 OPEN 155 [BENALTO4
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240.00] TO 161 [SARCEE 4    240.00] CKT 28
  2602.0    124 HARMATT7    138.00    957 166L JNC    138.00 66  0.02780     5.7   78.0 OPEN 205 [AMOCO R7
138.00] TO 890 [AMOCO TP    138.00] CKT 19
  2612.4   1383 VERMILO7    138.00     79 BUFFALO7    138.00 50  0.02920    37.7  114.0 OPEN 147 [GAETZ  4
240.00] TO 81 [BIGSTON4    240.00] CKT 14
  2618.4    124 HARMATT7    138.00    957 166L JNC    138.00 66  0.03010    -0.8   78.0 OPEN 152 [RED DEE4
240.00] TO 160 [JANET  4    240.00] CKT 29
  2618.5*   124 HARMATT7    138.00    957 166L JNC    138.00 66  0.03010    -0.8   78.0 OPEN 152 [RED DEE4
240.00] TO 160 [JANET  4    240.00] CKT 25
  2639.4    124 HARMATT7    138.00    883 EAGLE TP    138.00 19 -0.03633   -24.1  120.0 OPEN 120 [INNISFA7
138.00] TO 121 [OLDS   7    138.00] CKT 80
  2699.2    803 803/804N    138.00    804 803/804X    138.00 03 -0.02245   -65.4  126.0 OPEN 147 [GAETZ  4
240.00] TO 81 [BIGSTON4    240.00] CKT 14
  2699.2    803 803/804N    138.00    804 803/804X    138.00 04 -0.02245   -65.4  126.0 OPEN 147 [GAETZ  4
240.00] TO 81 [BIGSTON4    240.00] CKT 14
  2770.2    123 DIDSBURY    138.00    957 166L JNC    138.00 66 -0.03075     4.2   81.0 OPEN 152 [RED DEE4
240.00] TO 988 [CROSSF T    240.00] CKT 01
  2779.4    124 HARMATT7    138.00    883 EAGLE TP    138.00 19 -0.03633   -19.0  120.0 OPEN 121 [OLDS   7
138.00] TO 123 [DIDSBURY    138.00] CKT 80
  2779.8   1383 VERMILO7    138.00     79 BUFFALO7    138.00 50  0.02770    37.0  114.0 OPEN 155 [BENALTO4
240.00] TO 135 [SUNDANC4    240.00] CKT 26
  2780.8   1383 VERMILO7    138.00     79 BUFFALO7    138.00 50  0.02770    37.0  114.0 OPEN 155 [BENALTO4
240.00] TO 135 [SUNDANC4    240.00] CKT 22
  2829.0    374 BIGSTON7    138.00    804 803/804X    138.00 04  0.01519    83.0  126.0 OPEN 65 [BARDO  7
138.00] TO 946 [KING TAP    138.00] CKT 30
  2832.1    374 BIGSTON7    138.00    804 803/804X    138.00 04  0.01518    83.0  126.0 OPEN 70 [CAMROSE7
138.00] TO 946 [KING TAP    138.00] CKT 30
  2833.5    107 SUNDRE 7    138.00    883 EAGLE TP    138.00 19  0.03146    30.9  120.0 OPEN 155 [BENALTO4
240.00] TO 161 [SARCEE 4    240.00] CKT 06
  2834.9    107 SUNDRE 7    138.00    883 EAGLE TP    138.00 19  0.03146    30.8  120.0 OPEN 155 [BENALTO4
240.00] TO 161 [SARCEE 4    240.00] CKT 28
  2842.8    118 RED DE B    138.00    120 INNISFA7    138.00 80  0.04939   111.6  252.0 OPEN 107 [SUNDRE 7
138.00] TO 370 [SHELL C7    138.00] CKT 19
  2848.8     76 IPPL ST7    138.00   1491 BAT. RV7    138.00 01  0.03142    22.5  112.0 OPEN 155 [BENALTO4
240.00] TO 135 [SUNDANC4    240.00] CKT 26
  2850.0     76 IPPL ST7    138.00   1491 BAT. RV7    138.00 01  0.03141    22.5  112.0 OPEN 155 [BENALTO4
240.00] TO 135 [SUNDANC4    240.00] CKT 22
  2851.3     76 IPPL ST7    138.00   1491 BAT. RV7    138.00 01  0.03174    21.5  112.0 OPEN 147 [GAETZ  4
240.00] TO 152 [RED DEE4    240.00] CKT 14
  2859.6     93 WETASKI7    138.00    803 803/804N    138.00 04 -0.01519   -82.6  126.0 OPEN 65 [BARDO  7
138.00] TO 946 [KING TAP    138.00] CKT 30
  2859.8    123 DIDSBURY    138.00    957 166L JNC    138.00 66 -0.03010     5.1   81.0 OPEN 152 [RED DEE4
240.00] TO 160 [JANET  4    240.00] CKT 29
  2860.0    123 DIDSBURY    138.00    957 166L JNC    138.00 66 -0.03010     5.1   81.0 OPEN 152 [RED DEE4
240.00] TO 160 [JANET  4    240.00] CKT 25
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  2862.8     93 WETASKI7    138.00    803 803/804N    138.00 04 -0.01519   -82.5  126.0 OPEN 70 [CAMROSE7
138.00] TO 946 [KING TAP    138.00] CKT 30
  2863.5*   123 DIDSBURY    138.00    957 166L JNC    138.00 66 -0.02780    -1.4   81.0 OPEN 205 [AMOCO R7
138.00] TO 890 [AMOCO TP    138.00] CKT 19
  2868.1   1383 VERMILO7    138.00     79 BUFFALO7    138.00 50  0.02742    35.4  114.0 OPEN 147 [GAETZ  4
240.00] TO 152 [RED DEE4    240.00] CKT 14
  2875.4   1383 VERMILO7    138.00     79 BUFFALO7    138.00 50  0.02715    35.9  114.0 OPEN 155 [BENALTO4
240.00] TO 420 [KEEPHIL4    240.00] CKT 90
  2878.8   1383 VERMILO7    138.00     79 BUFFALO7    138.00 50  0.02713    35.9  114.0 OPEN 155 [BENALTO4
240.00] TO 420 [KEEPHIL4    240.00] CKT 03
  2886.8   1383 VERMILO7    138.00     79 BUFFALO7    138.00 50  0.02761    34.3  114.0
-------------------------------------------------------------------                    OPEN 9000
[DIDSBURY_NEW240.00] TO 187 [BEDDING1    240.00] CKT 18
  2899.7    104 STRACHA7    138.00    890 AMOCO TP    138.00 19  0.01692    70.9  120.0
-------------------------------------------------------------------                    OPEN 155 [BENALTO4
240.00] TO 9000 [DIDSBURY_NEW240.00] CKT 18
  2903.6     95 PONOKA 7    138.00    116 W LACOMB    138.00 80  0.06925    50.9  252.0 OPEN 147 [GAETZ  4
240.00] TO 81 [BIGSTON4    240.00] CKT 14
  2905.4     99 BENALTO7    138.00    155 BENALTO4    240.00 T1 -0.03310  -103.8  200.0
-------------------------------------------------------------------                    OPEN 155 [BENALTO4
240.00] TO 9000 [DIDSBURY_NEW240.00] CKT 18
  2907.3     99 BENALTO7    138.00    155 BENALTO4    240.00 T2 -0.03310  -103.8  200.0
-------------------------------------------------------------------                    OPEN 155 [BENALTO4
240.00] TO 9000 [DIDSBURY_NEW240.00] CKT 18
  2918.5    118 RED DE B    138.00    120 INNISFA7    138.00 80  0.04913   108.6  252.0 OPEN 147 [GAETZ  4
240.00] TO 152 [RED DEE4    240.00] CKT 14
  2919.7*  1383 VERMILO7    138.00     79 BUFFALO7    138.00 50  0.02720    34.6  114.0
-------------------------------------------------------------------                    OPEN 155 [BENALTO4
240.00] TO 9000 [DIDSBURY_NEW240.00] CKT 18
  2937.4     99 BENALTO7    138.00    882 SCHRA TP    138.00 48  0.02408    96.3  167.0 OPEN 99 [BENALTO7
138.00] TO 100 [ROCKY M7    138.00] CKT 17
  2943.4    118 RED DE B    138.00    120 INNISFA7    138.00 80  0.04883   108.3  252.0 OPEN 152 [RED DEE4
240.00] TO 988 [CROSSF T    240.00] CKT 01
  2944.1     76 IPPL ST7    138.00   1491 BAT. RV7    138.00 01  0.03153    19.2  112.0
-------------------------------------------------------------------                    OPEN 9000
[DIDSBURY_NEW240.00] TO 187 [BEDDING1    240.00] CKT 18
  2958.9     76 IPPL ST7    138.00   1491 BAT. RV7    138.00 01  0.03071    21.1  112.0 OPEN 155 [BENALTO4
240.00] TO 420 [KEEPHIL4    240.00] CKT 90
  2963.0     76 IPPL ST7    138.00   1491 BAT. RV7    138.00 01  0.03068    21.1  112.0 OPEN 155 [BENALTO4
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240.00] TO 420 [KEEPHIL4   240.00] CKT 03

PTI INTERACTIVE POWER SYSTEM SIMULATOR--PSS/E   TUE, MAR 08 2011   9:48
D-SOK-1 (S3_SOK_PK) 2012 SUMMER PEAK CASE 716L CLOSED   PAGE 3
NOVA ON 485MW WITHOUT TRANSMISSION PLAN
*** TLTG EXPORT LIMIT OUTPUT FOR SUBSYSTEM N-OF-SOK ***

* MONITORED ELEMENTS OCCURRING 10 OR MORE TIMES

NO. TIMES	MONITORED ELEMENT F R O M			MONITORED ELEMENT T O			CKT
59	147	GAETZ 4	240.00	152	RED DEE4	240.00	14
58	117	RED DE A	138.00	118	RED DE B	138.00	1
48	121	OLDS 7	138.00	123	DIDSBURY	138.00	80
46	128	ELLERSLI	240.00	81	BIGSTON4	240.00	14
46	9000	DIDSBURY_NEW	240.00	187	BEDDING1	240.00	18
44	81	BIGSTON4	240.00	147	GAETZ 4	240.00	14
43	155	BENALTO4	240.00	9000	DIDSBURY_NEW	240.00	18
39	152	RED DEE4	240.00	988	CROSSF T	240.00	01
39	123	DIDSBURY	138.00	982	MADDEN T	138.00	80
38	152	RED DEE4	240.00	160	JANET 4	240.00	25
38	152	RED DEE4	240.00	160	JANET 4	240.00	29
38	155	BENALTO4	240.00	161	SARCEE 4	240.00	06
38	155	BENALTO4	240.00	161	SARCEE 4	240.00	28
33	107	SUNDRE 7	138.00	370	SHELL C7	138.00	19
31	155	BENALTO4	240.00	135	SUNDANC4	240.00	22
31	155	BENALTO4	240.00	135	SUNDANC4	240.00	26
31	135	SUNDANC4	240.00	155	BENALTO4	240.00	22
31	91	NISKU 7	138.00	93	WETASKI7	138.00	58
31	135	SUNDANC4	240.00	155	BENALTO4	240.00	26
31	68	N HOLDE7	138.00	65	BARDO 7	138.00	74
30	155	BENALTO4	240.00	420	KEEPHIL4	240.00	03
30	155	BENALTO4	240.00	420	KEEPHIL4	240.00	90
30	420	KEEPHIL4	240.00	155	BENALTO4	240.00	03
30	420	KEEPHIL4	240.00	155	BENALTO4	240.00	90
29	152	RED DEE4	240.00	128	ELLERSLI	240.00	10
29	128	ELLERSLI	240.00	152	RED DEE4	240.00	10
25	101	COOKING7	138.00	65	BARDO 7	138.00	74
22	124	HARMATT7	138.00	957	166L JNC	138.00	66
13	1383	VERMILO7	138.00	79	BUFFALO7	138.00	50
12	123	DIDSBURY	138.00	957	166L JNC	138.00	66
11	20	EDSON 7	138.00	39	CYNTHIA7	138.00	02

Alternative 2

(Load Adequacy)

Alternative 2-2012WP-TLTG-Result

PTI INTERACTIVE POWER SYSTEM SIMULATOR--PSS/E TUE, MAR 08 2011 9:54
RED DEER AND DIDSBURY AREA STUDY PAGE 1
2012 WINTER PEAK BASE CASE REVISION 6.5
*** TLTG EXPORT LIMIT OUTPUT FOR BASE CASE ***

DISTRIBUTION FACTOR FILE: C:\Documents and Settings\zheny2\My Documents\AESO-RED DEER\New Final Case 01-03-2011\2012\TLTG(Transfer Capability Study
SUBSYSTEM DESCRIPTION FILE: C:\Documents and Settings\zheny2\My Documents\AESO-RED DEER\New Final Case 01-03-2011\2012\TLTG(Transfer Capability Study
MONITORED ELEMENT FILE: C:\Documents and Settings\zheny2\My Documents\AESO-RED DEER\New Final Case 01-03-2011\2012\TLTG(Transfer Capability Study
CONTINGENCY DESCRIPTION FILE: C:\Documents and Settings\zheny2\My Documents\AESO-RED DEER\New Final Case 01-03-2011\2012\TLTG(Transfer Capability Study

	PRE-SHIFT	DELTA	POST-SHIFT
STUDY SYSTEM MW GENERATION:	8015.3	100.0	8115.3
OPPOSING SYSTEM MW GENERATION:	230.0	-100.0	130.0
STUDY SYSTEM NET INTERCHANGE:	1230.4	100.0	1330.4

<---------- STUDY SYSTEM ---------->					<---------- OPPOSING SYSTEM ---------->				
		<-- GENERATOR MW -->					<-- GENERATOR MW -->		
BUS#	X-- NAME	--X BASKV	BASE	SHIFT	CHANGE	BUS#	X-- NAME	--X BASKV	BASE	SHIFT	CHANGE
14	WESGEN 9	13.800	15.3	15.5	0.2	3187	CECST	13.800	125.0	77.2	-47.8
129	SUND#1GN	18.000	152.0	155.1	3.1	3290	BALZ 3	13.800	40.0	18.4	-21.6
130	SUND#3GN	20.000	420.0	424.1	4.1	4290	BALZ 1&2	13.800	65.0	34.5	-30.5
338	SUND#2GN	18.000	302.0	305.1	3.1						
342	SUND#4GN	20.000	420.0	424.1	4.1						
345	SUND#5GN	20.000	380.0	384.1	4.1						
350	SUND#6GN	20.000	429.0	433.4	4.4						
408	WHITEGE9	12.500	25.0	25.3	0.3						
422	KEEP#1GN	19.000	448.0	452.1	4.1						
424	KEEP#2GN	19.000	409.0	413.1	4.1						
454	DOW GEN1	14.400	80.0	81.0	1.0						
490	GENES 39	22.000	450.0	455.4	5.4						
491	GENES 19	20.500	310.0	314.5	4.5						
492	GENES 29	20.500	380.0	384.5	4.5						
627	AIR LIQC	13.800	84.0	84.9	0.9						
1015	FORT NE9	13.800	40.0	40.5	0.5						
1035	RBW 4	13.800	20.0	20.5	0.5						
1089	DIASHOW9	13.800	30.0	30.4	0.4						
1141	P&G 9	13.800	32.0	32.3	0.3						
1148	HR MILN9	15.000	140.0	141.5	1.5						
1171	VALLEYVI	13.800	25.0	25.5	0.5						
1173	VALLEYG2	13.800	20.0	20.5	0.5						

2030	DOWSTG 9	14.700	45.0	45.5	0.5
2031	DOWGTG 9	13.800	80.0	80.9	0.9
2248	MAHKE-G2	13.800	85.0	86.0	1.0
2405	CONKLIN2	13.800	80.0	80.9	0.9
3050	REDW GT	13.800	40.0	40.7	0.7
3248	MAHKE-G1	13.800	84.0	85.0	1.0
3301	FCG1	13.800	40.0	40.4	0.4
3302	FCG2	13.800	40.0	40.4	0.4
4185	SCOTF GT	13.800	82.0	83.0	1.0
7185	SCOTF ST	13.800	90.0	91.0	1.0
10236	MUSKEG4	13.800	76.5	77.5	1.0
12236	MUSKEG6	13.800	85.0	86.0	1.0
12249	LNGLKCG1	13.800	100.0	101.0	1.0
13249	LNGLKCG2	13.800	100.0	101.0	1.0
16218	SUNC_G19	13.800	34.0	34.4	0.4
16219	MIL_G3	13.800	50.0	50.7	0.7
16233	SYNC_UE5	13.800	71.2	72.1	0.9
17101	GPEP39	13.800	25.0	25.3	0.3
17209	SYNC_G39	13.800	18.4	18.7	0.3
17210	SYNC_G49	13.800	36.7	37.3	0.6
17233	SYNC_UE4	13.800	12.6	12.9	0.3
18142	BEARCK2	13.800	30.0	30.6	0.6
18206	AUR_GTG2	13.800	74.5	75.4	0.9
18207	AUR_GTG1	13.800	69.8	70.8	0.9
18208	MIL_G5 9	13.800	80.0	81.3	1.3
18209	SYNC_G29	13.800	37.7	38.3	0.6
18210	SYNC_G59	13.800	18.4	18.7	0.3
18218	SUNC G29	13.800	13.1	13.4	0.4
18223	TAR-GN-2	13.800	70.0	70.8	0.8
18264	HORUP7	13.800	77.7	78.6	0.9
18274	MACKAY2	18.000	160.0	161.7	1.7
18302	PRIM GEN	13.800	80.0	81.0	1.0
19142	BEARCK3	13.800	30.0	30.4	0.4
19208	MIL_G6 9	13.800	90.0	91.3	1.3
19209	SYNC_G19	13.800	37.7	38.3	0.6
19210	SYNC_G69	13.800	27.9	28.6	0.7
19264	HORUP6	13.800	14.6	14.7	0.2
19268	HORUP10	13.800	80.0	80.9	0.9
90101	CBAR GT1	13.800	20.0	20.5	0.5
90102	CBAR GT2	13.800	50.0	51.1	1.1
90103	CBAR GT3	13.800	50.0	51.1	1.1
90351	KEEUN3	22.000	450.0	455.4	5.4
90517	SH_UG32	13.800	18.0	18.2	0.2
91521	BIOMASS1	12.500	33.0	33.3	0.3
91522	BIOMASS2	12.500	33.0	33.3	0.3
96083	SHELLCM2	18.000	120.0	122.3	2.3
96118	POPLAR05	13.800	85.0	86.0	1.0
97247	SURMONT 13	13.800	73.8	74.8	1.0

97275	G-L_CG2	13.800	163.6	165.5	1.9
97276	G-L_CG3	13.800	161.6	163.6	1.9
97277	G-L_CG4	13.800	80.0	81.0	1.0
97361	DEER CK 13.8	13.800	81.0	82.0	1.0

LOADINGS AT OR ABOVE 100.0 %
OF RATING ARE MARKED WITH '*'

<------- F R O M ------->			<--------- T O --------->			CKT	INCR. TRANS CAPAB	<---------- BASE CASE ----------> RATING B	PRE-SHIFT MW	POST-SHIFT MW	LIMIT CASE MW	DISTR. FACTOR
155	BENALTO4	240.00	9000	DIDSBURY_NEW	240.00	18	1205.1	499	244.9	266.0	499.0*	0.21086
9000	DIDSBURY_NEW	240.00	187	BEDDING1	240.00	18	1458.9	499	158.6	181.9	439.8	0.23332
135	SUNDANC4	240.00	155	BENALTO4	240.00	26	1683.0	499	240.6	256.0	425.6	0.15353
155	BENALTO4	240.00	135	SUNDANC4	240.00	26	1683.0	499	-240.6	-256.0	-425.6	-0.15353
155	BENALTO4	240.00	135	SUNDANC4	240.00	22	1689.7	499	-240.0	-255.4	-424.7	-0.15326
135	SUNDANC4	240.00	155	BENALTO4	240.00	22	1689.7	499	240.0	255.4	424.7	0.15326
123	DIDSBURY	138.00	982	MADDEN T	138.00	80	1795.5	143	89.3	92.3	125.4	0.02988
128	ELLERSLI	240.00	81	BIGSTON4	240.00	14	1880.4	499	233.8	247.9	403.8	0.14103
128	ELLERSLI	240.00	99500	PONOKA_NEW	240.00	10	2074.4	499	175.2	190.8	363.3	0.15608
152	RED DEE4	240.00	988	CROSSF T	240.00	01	2194.2	494	174.5	189.0	350.0	0.14564
152	RED DEE4	240.00	99700	INNISFAIL_NE	240.00	29	2203.2	499	200.8	214.3	363.9	0.13537
155	BENALTO4	240.00	161	SARCEE 4	240.00	06	2276.1	499	210.5	223.1	363.2	0.12677
155	BENALTO4	240.00	161	SARCEE 4	240.00	28	2282.5	499	209.7	222.4	362.4	0.12675
81	BIGSTON4	240.00	147	GAETZ 4	240.00	14	2295.6	499	114.6	131.4	316.4	0.16745
152	RED DEE4	240.00	99500	PONOKA_NEW	240.00	10	2303.1	499	-139.5	-155.1	-327.6	-0.15608
766	VER_TAP	138.00	79	BUFFALO7	138.00	29	2445.0	50	-43.1	-39.3	2.7	0.03802
20	EDSON 7	138.00	39	CYNTHIA7	138.00	02	2594.8	90	18.2	21.0	51.6	0.02766
107	SUNDRE 7	138.00	370	SHELL C7	138.00	19	2600.3	148	-68.3	-71.4	-105.2	-0.03064
155	BENALTO4	240.00	420	KEEPHIL4	240.00	90	2645.7	499	-185.3	-197.1	-328.2	-0.11858
420	KEEPHIL4	240.00	155	BENALTO4	240.00	90	2645.7	499	185.3	197.1	328.2	0.11858
155	BENALTO4	240.00	420	KEEPHIL4	240.00	03	2682.4	499	-183.7	-195.4	-325.3	-0.11755
420	KEEPHIL4	240.00	155	BENALTO4	240.00	03	2682.4	499	183.7	195.4	325.3	0.11755
147	GAETZ 4	240.00	152	RED DEE4	240.00	14	2687.0	499	101.3	116.1	279.6	0.14801
101	COOKING7	138.00	65	BARDO 7	138.00	74	2928.6	90	38.5	40.3	59.7	0.01758
152	RED DEE4	240.00	160	JANET 4	240.00	25	2964.1	499	146.1	158.0	289.6	0.11905
25	ENTWIST8	69.000	28	MOON LA8	69.000	29	3277.0	36	13.0	13.7	21.4	0.00703
99700	INNISFAIL_NE	240.00	160	JANET 4	240.00	29	3282.8	499	125.9	137.2	262.8	0.11366
68	N HOLDE7	138.00	65	BARDO 7	138.00	74	3526.6	90	-26.5	-28.3	-48.2	-0.01801
107	SUNDRE 7	138.00	883	EAGLE TP	138.00	19	3592.5	148	37.9	41.0	74.8	0.03064
124	HARMATT7	138.00	957	166L JNC	138.00	66	3645.8	120	8.3	11.4	45.2	0.03064
124	HARMATT7	138.00	883	EAGLE TP	138.00	19	3816.4	143	-26.1	-29.1	-63.0	-0.03064
123	DIDSBURY	138.00	957	166L JNC	138.00	66	3861.4	122	-3.7	-6.7	-40.6	-0.03064
120	INNISFA7	138.00	121	OLDS 7	138.00	80	4964.5	147	39.3	41.4	65.4	0.02170
76	IPPL ST7	138.00	14001	HEISLERTAP	138.00	1	5139.4	114	-52.0	-48.8	-13.1	0.03230
152	RED DEE4	240.00	155	BENALTO4	240.00	00	5464.3	705	-210.2	-219.3	-319.3	-0.09055
120	INNISFA7	138.00	99700	INNISFAIL_NE	240.00	T1	5843.2	200	-73.2	-75.4	-99.3	-0.02170
104	STRACHA7	138.00	890	AMOCO TP	138.00	19	6142.1	143	83.6	84.5	95.2	0.00968
121	OLDS 7	138.00	123	DIDSBURY	138.00	80	6387.3	143	4.4	6.6	30.5	0.02170
91	NISKU 7	138.00	93	WETASKI7	138.00	58	6570.4	96	-7.8	-6.2	11.2	0.01580

862	PV-TAP7	138.00	362	EDGERTO7	138.00	49	6803.6	96	-36.1	-34.2	-12.7	0.01942
155	BENALTO4	240.00	995	W.GRN TP	240.00	95	7093.4	499	-188.4	-192.8	-241.2	-0.04379
99	BENALTO7	138.00	882	SCHRA TP	138.00	48	7755.9	215	52.4	54.5	77.7	0.02096
99	BENALTO7	138.00	155	BENALTO4	240.00	T1	8120.5	200	-71.0	-72.6	-90.1	-0.01589
99	BENALTO7	138.00	155	BENALTO4	240.00	T2	8120.5	200	-71.0	-72.6	-90.1	-0.01589
370	SHELL C7	138.00	882	SCHRA TP	138.00	48	8525.3	215	-36.3	-38.4	-61.5	-0.02096
881	RAVEN TP	138.00	890	AMOCO TP	138.00	19	9454.5	148	-56.5	-57.5	-68.2	-0.00968
370	SHELL C7	138.00	881	RAVEN TP	138.00	19	9933.9	148	-51.9	-52.8	-63.5	-0.00968
96	DEVON 7	138.00	365	BUFORD 7	138.00	38	11429.2	143	16.7	17.8	30.0	0.01105
105	PIGEON 7	138.00	374	BIGSTON7	138.00	05	11664.5	90	-38.9	-37.8	-25.6	0.01105
81	BIGSTON4	240.00	374	BIGSTON7	138.00	T1	12069.8	200	118.9	116.3	87.1	-0.02642
123	DIDSBURY	138.00	9000	DIDSBURY_NEW	240.00	T1	12526.9	200	-81.3	-79.1	-54.3	0.02246
99	BENALTO7	138.00	100	ROCKY M7	138.00	17	12669.3	135	12.4	13.4	24.1	0.00968
356	BON GLE7	138.00	365	BUFORD 7	138.00	38	13714.3	148	3.6	2.5	-9.7	-0.01105
105	PIGEON 7	138.00	356	BON GLE7	138.00	37	15188.2	146	21.9	20.8	8.6	-0.01105
423	KEEPHIL7	138.00	49	KEYSTON7	138.00	34	15387.8	191	50.9	51.8	61.9	0.00910
93	WETASKI7	138.00	803	803/804N	138.00	04	16107.3	169	-78.6	-77.0	-60.0	0.01537
374	BIGSTON7	138.00	804	803/804X	138.00	04	16137.5	169	79.0	77.5	60.5	-0.01537
100	ROCKY M7	138.00	104	STRACHA7	138.00	70	16512.0	143	-16.8	-15.8	-5.1	0.00968
119	N RED D7	138.00	148	GAETZ 7	138.00	68	19547.2	220	-70.5	-71.3	-79.8	-0.00765
119	N RED D7	138.00	148	GAETZ 7	138.00	78	19547.2	220	-70.5	-71.3	-79.8	-0.00765
147	GAETZ 4	240.00	148	GAETZ 7	138.00	T2	19821.9	200	6.0	7.0	17.8	0.00979
118	RED DE B	138.00	152	RED DEE4	240.00	T2	19910.5	200	-6.5	-5.5	6.0	0.01037
147	GAETZ 4	240.00	148	GAETZ 7	138.00	T1	20112.7	200	6.0	6.9	17.6	0.00965
117	RED DE A	138.00	152	RED DEE4	240.00	T1	20281.6	200	-6.4	-5.4	5.8	0.01018
115	S RED DE	138.00	119	N RED D7	138.00	80	25659.0	459	-53.0	-54.5	-72.0	-0.01582
803	803/804N	138.00	804	803/804X	138.00	04	27121.0	169	-39.4	-38.6	-30.2	0.00768
803	803/804N	138.00	804	803/804X	138.00	03	27121.0	169	-39.4	-38.6	-30.2	0.00768
117	RED DE A	138.00	118	RED DE B	138.00	1	28787.7	148	-14.6	-14.0	-7.8	0.00565
115	S RED DE	138.00	117	RED DE A	138.00	80	29533.8	459	-8.4	-6.8	10.7	0.01583
	INTERFACE SOK						41553.4	2150	-221.3	-215.6	-152.6	0.05707
152	RED DEE4	240.00	1422	NEVIS 4	240.00	12	41924.7	549	-86.1	-84.5	-67.8	0.01515
383	JOFFRE 7	138.00	664	PIPER CR	138.00	55	68726.3	314	66.0	66.3	70.3	0.00361
118	RED DE B	138.00	664	PIPER CR	138.00	55	82464.4	314	-16.4	-16.8	-20.8	-0.00361
65	BARDO 7	138.00	946	KING TAP	138.00	30	>99999.	91	12.0	12.0	11.5	-0.00043
70	CAMROSE7	138.00	94	ERVICK 7	138.00	29	>99999.	90	-18.7	-18.8	-19.3	-0.00043
70	CAMROSE7	138.00	946	KING TAP	138.00	30	>99999.	90	-11.8	-11.8	-11.3	0.00043
93	WETASKI7	138.00	899	TRUE W T	138.00	29	>99999.	96	34.1	34.2	34.6	0.00043
94	ERVICK 7	138.00	899	TRUE W T	138.00	29	>99999.	90	-33.8	-33.8	-34.3	-0.00043
95	PONOKA 7	138.00	192	NELSON L	138.00	1	>99999.	96	8.5	8.5	8.5	0.00000
95	PONOKA 7	138.00	99501	PONOKAT1	240.00	T1	>99999.	100	-16.9	-16.9	-16.9	0.00000
95	PONOKA 7	138.00	99502	PONOKAT2	240.00	T2	>99999.	100	-16.9	-16.9	-16.9	0.00000
97	ECKVILL7	138.00	956	758L JCT	138.00	58	>99999.	90	-19.1	-19.1	-19.1	0.00000
98	RIMBEY 7	138.00	956	758L JCT	138.00	57	>99999.	90	-26.5	-26.5	-26.5	0.00000
99	BENALTO7	138.00	780	SYLV_138	138.00	1	>99999.	314	17.3	17.4	18.6	0.00113
99	BENALTO7	138.00	956	758L JCT	138.00	57	>99999.	90	46.2	46.2	46.2	0.00000
113	BLACKFA7	138.00	116	W LACOMB	138.00	80	>99999.	135	-13.2	-13.3	-13.8	-0.00053
113	BLACKFA7	138.00	119	N RED D7	138.00	80	>99999.	147	-26.7	-26.6	-26.0	0.00053

114	LACOMBE7	138.00	116	W LACOMB	138.00	80	>99999.	79	13.3	13.3	13.9	0.00053
114	LACOMBE7	138.00	388	ELLIS 7	138.00	1	>99999.	314	-26.5	-26.6	-27.2	-0.00053
118	RED DE B	138.00	780	SYLV_138	138.00	1	>99999.	314	8.4	8.3	7.0	-0.00112
122	MADDEN 7	138.00	982	MADDEN T	138.00	89	>99999.	79	-16.2	-16.2	-16.2	0.00000
124	HARMATT7	138.00	97619	HGF1	138.00	01	>99999.	215	0.6	0.6	0.6	0.00000
126	SHELL H7	138.00	957	166L JNC	138.00	66	>99999.	90	-4.6	-4.6	-4.6	0.00000
142	KINGMAN7	138.00	946	KING TAP	138.00	32	>99999.	91	0.0	0.0	0.0	0.00000
148	GAETZ 7	138.00	383	JOFFRE 7	138.00	56	>99999.	190	-66.4	-66.3	-64.5	0.00158
148	GAETZ 7	138.00	383	JOFFRE 7	138.00	93	>99999.	190	-66.4	-66.3	-64.5	0.00158
148	GAETZ 7	138.00	384	UC PRENT	138.00	59	>99999.	190	3.4	3.5	4.5	0.00097
152	RED DEE4	240.00	93700	RED DEER LUM	25.000	T1	>99999.	240	0.0	0.0	0.0	0.00000
205	AMOCO R7	138.00	257	LIMESTO7	138.00	64	>99999.	148	19.4	19.4	19.4	0.00000
205	AMOCO R7	138.00	890	AMOCO TP	138.00	19	>99999.	148	-24.5	-24.5	-24.5	0.00000
354	NOVA C17	138.00	383	JOFFRE 7	138.00	1	>99999.	476	163.6	163.6	163.6	0.00000
355	NOVA C27	138.00	383	JOFFRE 7	138.00	2	>99999.	476	285.5	285.5	285.5	0.00000
382	SHELL RA	138.00	881	RAVEN TP	138.00	19	>99999.	148	-4.5	-4.5	-4.5	0.00000
383	JOFFRE 7	138.00	384	UC PRENT	138.00	75	>99999.	190	78.5	78.5	78.2	-0.00024
383	JOFFRE 7	138.00	398	BROOKFLD	138.00	89	>99999.	152	5.0	5.0	5.0	0.00000
383	JOFFRE 7	138.00	975	COMINTAP	138.00	84	>99999.	190	86.2	86.2	86.0	-0.00020
384	UC PRENT	138.00	388	ELLIS 7	138.00	74	>99999.	190	-22.7	-22.7	-21.9	0.00073
385	SHELL SC	138.00	882	SCHRA TP	138.00	48	>99999.	148	-15.2	-15.2	-15.2	0.00000
386	SHELL EA	138.00	883	EAGLE TP	138.00	19	>99999.	148	-11.5	-11.5	-11.5	0.00000
387	COMINCO7	138.00	975	COMINTAP	138.00	84	>99999.	135	-5.2	-5.2	-5.2	0.00000
388	ELLIS 7	138.00	975	COMINTAP	138.00	84	>99999.	190	-80.4	-80.4	-80.2	0.00020
440	TRUE WEL	138.00	899	TRUE W T	138.00	29	>99999.	132	0.0	0.0	0.0	0.00000
99500	PONOKA_NEW	240.00	99501	PONOKAT1	240.00	T1	>99999.	100	16.9	16.9	16.9	0.00000
99500	PONOKA_NEW	240.00	99502	PONOKAT2	240.00	T2	>99999.	100	16.9	16.9	16.9	0.00000

PTI INTERACTIVE POWER SYSTEM SIMULATOR--PSS/E TUE, MAR 08 2011 9:54
RED DEER AND DIDSBURY AREA STUDY PAGE 2
2012 WINTER PEAK BASE CASE REVISION 6.5
*** TLTG EXPORT LIMIT OUTPUT FOR SUBSYSTEM N-OF-SOK ***

SOLUTION OF 98 SYSTEM CONDITIONS ATTEMPTED 0 INSOLUBLE SYSTEM CONDITIONS

INCR. TRANS CAPAB	LIMITING ELEMENT FROM	LIMITING ELEMENT TO	CKT	DISTR. FACTOR	PRE-SHIFT MW	RATING BAS/CNT B/B	CONTINGENCY DESCRIPTION
445.0	123 DIDSBURY 138.00	982 MADDEN T 138.00	80	0.06577	113.7	143.0	
							OPEN 9000 [DIDSBURY_NEW240.00] TO 187 [BEDDING1 240.00] CKT 18
837.3	107 SUNDRE 7 138.00	370 SHELL C7 138.00	19	-0.05767	-99.7	148.0	
							OPEN 155 [BENALTO4

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240.00] TO 9000 [DIDSBURY_NEW240.00] CKT 18
   899.5    155 BENALTO4    240.00   9000 DIDSBURY_NEW240.00 18  0.23603   286.7  499.0 OPEN 155 [BENALTO4
 240.00] TO 161 [SARCEE 4    240.00] CKT 06
   900.2    155 BENALTO4    240.00   9000 DIDSBURY_NEW240.00 18  0.23603   286.5  499.0 OPEN 155 [BENALTO4
 240.00] TO 161 [SARCEE 4    240.00] CKT 28
   900.6    155 BENALTO4    240.00   9000 DIDSBURY_NEW240.00 18  0.23779   284.8  499.0
-------------------------------------------------------------                          OPEN 152 [RED DEE4
240.00] TO 99700 [INNISFAIL_NE240.00] CKT 29
   923.9    155 BENALTO4    240.00    135 SUNDANC4    240.00 26 -0.20033  -313.9  499.0 OPEN 155 [BENALTO4
 240.00] TO 135 [SUNDANC4    240.00] CKT 22
   923.9    135 SUNDANC4    240.00    155 BENALTO4    240.00 26  0.20033   313.9  499.0 OPEN 155 [BENALTO4
 240.00] TO 135 [SUNDANC4    240.00] CKT 22
   927.5    135 SUNDANC4    240.00    155 BENALTO4    240.00 22  0.20008   313.4  499.0 OPEN 155 [BENALTO4
 240.00] TO 135 [SUNDANC4    240.00] CKT 26
   927.5    155 BENALTO4    240.00    135 SUNDANC4    240.00 22 -0.20008  -313.4  499.0 OPEN 155 [BENALTO4
 240.00] TO 135 [SUNDANC4    240.00] CKT 26
   967.1    155 BENALTO4    240.00   9000 DIDSBURY_NEW240.00 18  0.22612   280.3  499.0 OPEN 152 [RED DEE4
 240.00] TO 155 [BENALTO4    240.00] CKT 00
   998.8    155 BENALTO4    240.00   9000 DIDSBURY_NEW240.00 18  0.23066   268.6  499.0 OPEN 152 [RED DEE4
 240.00] TO 988 [CROSSF T    240.00] CKT 01
  1018.0    155 BENALTO4    240.00   9000 DIDSBURY_NEW240.00 18  0.22301   272.0  499.0 OPEN 107 [SUNDRE 7
 138.00] TO 370 [SHELL C7    138.00] CKT 19
  1045.4    155 BENALTO4    240.00   9000 DIDSBURY_NEW240.00 18  0.22568   263.1  499.0 OPEN 152 [RED DEE4
 240.00] TO 160 [JANET  4    240.00] CKT 25
  1055.3    155 BENALTO4    240.00   9000 DIDSBURY_NEW240.00 18  0.21799   268.9  499.0
-------------------------------------------------------------                          OPEN 99700
[INNISFAIL_NE240.00] TO 120 [INNISFA7    138.00] CKT T1
  1072.0    155 BENALTO4    240.00   9000 DIDSBURY_NEW240.00 18  0.22301   259.9  499.0 OPEN 107 [SUNDRE 7
 138.00] TO 883 [EAGLE TP    138.00] CKT 19
  1093.1*   155 BENALTO4    240.00   9000 DIDSBURY_NEW240.00 18  0.22301   255.2  499.0 OPEN 124 [HARMATT7
 138.00] TO 883 [EAGLE TP    138.00] CKT 19
  1125.6    123 DIDSBURY    138.00    982 MADDEN T    138.00 80  0.03707   101.3  143.0 OPEN 155 [BENALTO4
 240.00] TO 161 [SARCEE 4    240.00] CKT 06
  1126.9    123 DIDSBURY    138.00    982 MADDEN T    138.00 80  0.03707   101.2  143.0 OPEN 155 [BENALTO4
 240.00] TO 161 [SARCEE 4    240.00] CKT 28
  1184.6   9000 DIDSBURY_NEW240.00    187 BEDDING1    240.00 18  0.25582   196.0  499.0 OPEN 155 [BENALTO4
 240.00] TO 161 [SARCEE 4    240.00] CKT 06
  1185.1   9000 DIDSBURY_NEW240.00    187 BEDDING1    240.00 18  0.25582   195.8  499.0 OPEN 155 [BENALTO4
 240.00] TO 161 [SARCEE 4    240.00] CKT 28
  1217.0    123 DIDSBURY    138.00    982 MADDEN T    138.00 80  0.03732    97.6  143.0
-------------------------------------------------------------                          OPEN 99700
[INNISFAIL_NE240.00] TO 160 [JANET  4    240.00] CKT 29
  1222.3    128 ELLERSLI    240.00     81 BIGSTON4    240.00 14  0.18488   273.0  499.0
-------------------------------------------------------------                          OPEN 152 [RED DEE4
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240.00] TO 99500 [PONOKA_NEW  240.00] CKT 10
  1227.7   9000 DIDSBURY_NEW240.00    187 BEDDING1    240.00 18  0.25556   185.3  499.0 OPEN 152 [RED DEE4
 240.00] TO 988 [CROSSF T    240.00] CKT 01
  1262.3   9000 DIDSBURY_NEW240.00    187 BEDDING1    240.00 18  0.24411   190.9  499.0 OPEN 123 [DIDSBURY
 138.00] TO 982 [MADDEN T    138.00] CKT 80
  1272.2   9000 DIDSBURY_NEW240.00    187 BEDDING1    240.00 18  0.25162   178.9  499.0
------------------------------------------------------------                    OPEN 99700
[INNISFAIL_NE240.00] TO 160 [JANET  4    240.00] CKT 29
  1280.0    123 DIDSBURY    138.00   9000 DIDSBURY_NEW240.00 T1 -0.05276  -132.5  200.0
------------------------------------------------------------                     OPEN 9000
[DIDSBURY_NEW240.00] TO 187 [BEDDING1    240.00] CKT 18
  1282.6   9000 DIDSBURY_NEW240.00    187 BEDDING1    240.00 18  0.24971   178.7  499.0 OPEN 152 [RED DEE4
 240.00] TO 160 [JANET  4    240.00] CKT 25
  1301.7    123 DIDSBURY    138.00    982 MADDEN T    138.00 80  0.03579    96.4  143.0 OPEN 152 [RED DEE4
 240.00] TO 988 [CROSSF T    240.00] CKT 01
  1302.2   9000 DIDSBURY_NEW240.00    187 BEDDING1    240.00 18  0.24341   182.0  499.0 OPEN 152 [RED DEE4
 240.00] TO 155 [BENALTO4    240.00] CKT 00
  1348.5    152 RED DEE4    240.00  99700 INNISFAIL_NE240.00 29  0.18146   254.3  499.0
------------------------------------------------------------                     OPEN 155 [BENALTO4
240.00] TO 9000 [DIDSBURY_NEW240.00] CKT 18
  1359.2   9000 DIDSBURY_NEW240.00    187 BEDDING1    240.00 18  0.22304   195.9  499.0
------------------------------------------------------------                     OPEN 9000
[DIDSBURY_NEW240.00] TO 123 [DIDSBURY    138.00] CKT T1
  1364.4    107 SUNDRE 7    138.00    883 EAGLE TP    138.00 19  0.05767    69.3  148.0
------------------------------------------------------------                     OPEN 155 [BENALTO4
240.00] TO 9000 [DIDSBURY_NEW240.00] CKT 18
  1365.9    135 SUNDANC4    240.00    155 BENALTO4    240.00 26  0.17507   259.9  499.0
------------------------------------------------------------                    OPEN 152 [RED DEE4
240.00] TO 99500 [PONOKA_NEW  240.00] CKT 10
  1365.9    155 BENALTO4    240.00    135 SUNDANC4    240.00 26 -0.17507  -259.9  499.0
------------------------------------------------------------                    OPEN 152 [RED DEE4
240.00] TO 99500 [PONOKA_NEW  240.00] CKT 10
  1366.2    135 SUNDANC4    240.00    155 BENALTO4    240.00 26  0.17725   256.9  499.0 OPEN 147 [GAETZ  4
 240.00] TO 81 [BIGSTON4    240.00] CKT 14
  1366.2    155 BENALTO4    240.00    135 SUNDANC4    240.00 26 -0.17725  -256.9  499.0 OPEN 147 [GAETZ  4
 240.00] TO 81 [BIGSTON4    240.00] CKT 14
  1371.8    135 SUNDANC4    240.00    155 BENALTO4    240.00 22  0.17476   259.3  499.0
------------------------------------------------------------                    OPEN 152 [RED DEE4
240.00] TO 99500 [PONOKA_NEW  240.00] CKT 10
  1371.8    155 BENALTO4    240.00    135 SUNDANC4    240.00 22 -0.17476  -259.3  499.0
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240.00] TO 99500 [PONOKA_NEW  240.00] CKT 10
  1420.5    128 ELLERSLI    240.00  99500 PONOKA_NEW  240.00 10  0.20458   208.4  499.0 OPEN 147 [GAETZ  4
 240.00] TO 81 [BIGSTON4    240.00] CKT 14
  1464.7    128 ELLERSLI    240.00     81 BIGSTON4    240.00 14  0.16036   264.1  499.0 OPEN 155 [BENALTO4
 240.00] TO 135 [SUNDANC4    240.00] CKT 26
  1465.0    155 BENALTO4    240.00    161 SARCEE 4    240.00 06  0.15973   265.0  499.0 OPEN 155 [BENALTO4
 240.00] TO 161 [SARCEE 4    240.00] CKT 28
  1465.6    128 ELLERSLI    240.00     81 BIGSTON4    240.00 14  0.16032   264.0  499.0 OPEN 155 [BENALTO4
 240.00] TO 135 [SUNDANC4    240.00] CKT 22
  1468.7    155 BENALTO4    240.00    161 SARCEE 4    240.00 28  0.15972   264.4  499.0 OPEN 155 [BENALTO4
 240.00] TO 161 [SARCEE 4    240.00] CKT 06
  1483.4    124 HARMATT7    138.00    883 EAGLE TP    138.00 19 -0.05767   -57.5  143.0
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                                                                                    OPEN 155 [BENALTO4
240.00] TO 9000 [DIDSBURY_NEW240.00] CKT 18
  1503.6    152 RED DEE4    240.00  99700 INNISFAIL_NE240.00 29  0.17042   242.8  499.0 OPEN 152 [RED DEE4
 240.00] TO 988 [CROSSF T    240.00] CKT 01
  1507.3    123 DIDSBURY    138.00    957 166L JNC    138.00 66 -0.05767   -35.1  122.0
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                                                                                    OPEN 155 [BENALTO4
240.00] TO 9000 [DIDSBURY_NEW240.00] CKT 18
  1514.5    128 ELLERSLI    240.00     81 BIGSTON4    240.00 14  0.15780   260.0  499.0 OPEN 155 [BENALTO4
 240.00] TO 420 [KEEPHIL4    240.00] CKT 90
  1516.9    155 BENALTO4    240.00    161 SARCEE 4    240.00 06  0.16270   252.2  499.0
-------------------------------------------------------------------
                                                                                    OPEN 155 [BENALTO4
240.00] TO 9000 [DIDSBURY_NEW240.00] CKT 18
  1518.2    128 ELLERSLI    240.00     81 BIGSTON4    240.00 14  0.15760   259.7  499.0 OPEN 155 [BENALTO4
 240.00] TO 420 [KEEPHIL4    240.00] CKT 03
  1521.9    155 BENALTO4    240.00    161 SARCEE 4    240.00 28  0.16268   251.4  499.0
-------------------------------------------------------------------
                                                                                    OPEN 155 [BENALTO4
240.00] TO 9000 [DIDSBURY_NEW240.00] CKT 18
  1543.9    128 ELLERSLI    240.00     81 BIGSTON4    240.00 14  0.15330   262.3  499.0 OPEN 152 [RED DEE4
 240.00] TO 155 [BENALTO4    240.00] CKT 00
  1567.6    135 SUNDANC4    240.00    155 BENALTO4    240.00 26  0.16139   246.0  499.0 OPEN 147 [GAETZ  4
 240.00] TO 152 [RED DEE4    240.00] CKT 14
  1567.6    155 BENALTO4    240.00    135 SUNDANC4    240.00 26 -0.16139  -246.0  499.0 OPEN 147 [GAETZ  4
 240.00] TO 152 [RED DEE4    240.00] CKT 14
  1574.0    135 SUNDANC4    240.00    155 BENALTO4    240.00 22  0.16111   245.4  499.0 OPEN 147 [GAETZ  4
 240.00] TO 152 [RED DEE4    240.00] CKT 14
  1574.0    155 BENALTO4    240.00    135 SUNDANC4    240.00 22 -0.16111  -245.4  499.0 OPEN 147 [GAETZ  4
 240.00] TO 152 [RED DEE4    240.00] CKT 14
  1580.5     81 BIGSTON4    240.00    147 GAETZ  4    240.00 14  0.21584   157.9  499.0
-------------------------------------------------------------------
                                                                                OPEN 152 [RED DEE4
240.00] TO 99500 [PONOKA_NEW  240.00] CKT 10
  1595.0    152 RED DEE4    240.00  99500 PONOKA_NEW  240.00 10 -0.20458  -172.7  499.0 OPEN 147 [GAETZ  4
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 240.00] TO 81 [BIGSTON4    240.00] CKT 14
  1597.6    107 SUNDRE 7    138.00    370 SHELL C7    138.00 19 -0.04061   -83.1  148.0
-------------------------------------------------------------------
                                                                          OPEN 152 [RED DEE4
240.00] TO 99700 [INNISFAIL_NE240.00] CKT 29
  1599.2    155 BENALTO4    240.00    161 SARCEE 4    240.00 06  0.16442   236.1  499.0
-------------------------------------------------------------------
                                                                           OPEN 9000
[DIDSBURY_NEW240.00] TO 187 [BEDDING1    240.00] CKT 18
  1601.5    152 RED DEE4    240.00    988 CROSSF T    240.00 01  0.17362   216.0  494.0
-------------------------------------------------------------------
                                                                          OPEN 152 [RED DEE4
240.00] TO 99700 [INNISFAIL_NE240.00] CKT 29
  1603.0    152 RED DEE4    240.00  99700 INNISFAIL_NE240.00 29  0.16407   236.0  499.0 OPEN 152 [RED DEE4
 240.00] TO 160 [JANET  4    240.00] CKT 25
  1604.2    155 BENALTO4    240.00    161 SARCEE 4    240.00 28  0.16440   235.3  499.0
-------------------------------------------------------------------
                                                                           OPEN 9000
[DIDSBURY_NEW240.00] TO 187 [BEDDING1    240.00] CKT 18
  1610.0     20 EDSON  7    138.00     39 CYNTHIA7    138.00 02  0.03623    31.7   90.0 OPEN 155 [BENALTO4
 240.00] TO 135 [SUNDANC4    240.00] CKT 26
  1612.0     20 EDSON  7    138.00     39 CYNTHIA7    138.00 02  0.03621    31.6   90.0 OPEN 155 [BENALTO4
 240.00] TO 135 [SUNDANC4    240.00] CKT 22
  1618.8    420 KEEPHIL4    240.00    155 BENALTO4    240.00 90  0.15686   245.1  499.0 OPEN 155 [BENALTO4
 240.00] TO 420 [KEEPHIL4    240.00] CKT 03
  1618.8    155 BENALTO4    240.00    420 KEEPHIL4    240.00 90 -0.15686  -245.1  499.0 OPEN 155 [BENALTO4
 240.00] TO 420 [KEEPHIL4    240.00] CKT 03
  1628.4    128 ELLERSLI    240.00  99500 PONOKA_NEW  240.00 10  0.17787   209.4  499.0 OPEN 155 [BENALTO4
 240.00] TO 135 [SUNDANC4    240.00] CKT 26
  1629.4    152 RED DEE4    240.00    988 CROSSF T    240.00 01  0.18126   198.7  494.0
-------------------------------------------------------------------
                                                                           OPEN 9000
[DIDSBURY_NEW240.00] TO 187 [BEDDING1    240.00] CKT 18
  1629.5    128 ELLERSLI    240.00  99500 PONOKA_NEW  240.00 10  0.17782   209.3  499.0 OPEN 155 [BENALTO4
 240.00] TO 135 [SUNDANC4    240.00] CKT 22
  1635.7    155 BENALTO4    240.00    135 SUNDANC4    240.00 26 -0.15585  -244.1  499.0
-------------------------------------------------------------------
                                                                          OPEN 152 [RED DEE4
240.00] TO 99700 [INNISFAIL_NE240.00] CKT 29
  1635.7    135 SUNDANC4    240.00    155 BENALTO4    240.00 26  0.15585   244.1  499.0
-------------------------------------------------------------------
                                                                          OPEN 152 [RED DEE4
240.00] TO 99700 [INNISFAIL_NE240.00] CKT 29
  1637.5    155 BENALTO4    240.00    420 KEEPHIL4    240.00 03 -0.15594  -243.6  499.0 OPEN 155 [BENALTO4
 240.00] TO 420 [KEEPHIL4    240.00] CKT 90
  1637.5    420 KEEPHIL4    240.00    155 BENALTO4    240.00 03  0.15594   243.6  499.0 OPEN 155 [BENALTO4
 240.00] TO 420 [KEEPHIL4    240.00] CKT 90
  1642.3    135 SUNDANC4    240.00    155 BENALTO4    240.00 22  0.15558   243.5  499.0
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                                                                OPEN 152 [RED DEE4
240.00] TO 99700 [INNISFAIL_NE240.00] CKT 29
  1642.3    155 BENALTO4    240.00    135 SUNDANC4    240.00 22 -0.15558  -243.5  499.0
------------------------------------------------------------
                                                                OPEN 152 [RED DEE4
240.00] TO 99700 [INNISFAIL_NE240.00] CKT 29
  1643.7    135 SUNDANC4    240.00    155 BENALTO4    240.00 26  0.15565   243.2  499.0 OPEN 152 [RED DEE4
 240.00] TO 988 [CROSSF T    240.00] CKT 01
  1643.7    155 BENALTO4    240.00    135 SUNDANC4    240.00 26 -0.15565  -243.2  499.0 OPEN 152 [RED DEE4
 240.00] TO 988 [CROSSF T    240.00] CKT 01
  1650.4    155 BENALTO4    240.00    135 SUNDANC4    240.00 22 -0.15537  -242.6  499.0 OPEN 152 [RED DEE4
 240.00] TO 988 [CROSSF T    240.00] CKT 01
  1650.4    135 SUNDANC4    240.00    155 BENALTO4    240.00 22  0.15537   242.6  499.0 OPEN 152 [RED DEE4
 240.00] TO 988 [CROSSF T    240.00] CKT 01
  1651.3    123 DIDSBURY    138.00    982 MADDEN T    138.00 80  0.03097    91.9  143.0 OPEN 152 [RED DEE4
 240.00] TO 155 [BENALTO4    240.00] CKT 00
  1651.7*   155 BENALTO4    240.00    135 SUNDANC4    240.00 26 -0.15519  -242.7  499.0 OPEN 152 [RED DEE4
 240.00] TO 160 [JANET  4    240.00] CKT 25
  1651.7*   135 SUNDANC4    240.00    155 BENALTO4    240.00 26  0.15519   242.7  499.0 OPEN 152 [RED DEE4
 240.00] TO 160 [JANET  4    240.00] CKT 25
  1656.1    152 RED DEE4    240.00    988 CROSSF T    240.00 01  0.17281   207.8  494.0 OPEN 152 [RED DEE4
 240.00] TO 160 [JANET  4    240.00] CKT 25
  1658.4*   155 BENALTO4    240.00    135 SUNDANC4    240.00 22 -0.15492  -242.1  499.0 OPEN 152 [RED DEE4
 240.00] TO 160 [JANET  4    240.00] CKT 25
  1658.4*   135 SUNDANC4    240.00    155 BENALTO4    240.00 22  0.15492   242.1  499.0 OPEN 152 [RED DEE4
 240.00] TO 160 [JANET  4    240.00] CKT 25
  1668.4    152 RED DEE4    240.00    988 CROSSF T    240.00 01  0.17269   205.9  494.0
------------------------------------------------------------
                                                                OPEN 155 [BENALTO4
240.00] TO 9000 [DIDSBURY_NEW240.00] CKT 18
  1686.6    128 ELLERSLI    240.00     81 BIGSTON4    240.00 14  0.14559   253.5  499.0 OPEN 155 [BENALTO4
 240.00] TO 995 [W.GRN TP    240.00] CKT 95
  1693.4    101 COOKING7    138.00     65 BARDO  7    138.00 74  0.01785    59.8   90.0 OPEN 93 [WETASKI7
138.00] TO 899 [TRUE W T    138.00] CKT 29
  1699.4    123 DIDSBURY    138.00    982 MADDEN T    138.00 80  0.02988    92.2  143.0 OPEN 205 [AMOCO R7
 138.00] TO 890 [AMOCO TP    138.00] CKT 19
  1705.1    128 ELLERSLI    240.00  99500 PONOKA_NEW  240.00 10  0.17040   208.5  499.0 OPEN 152 [RED DEE4
 240.00] TO 155 [BENALTO4    240.00] CKT 00
  1705.5    101 COOKING7    138.00     65 BARDO  7    138.00 74  0.01785    59.6   90.0 OPEN 94 [ERVICK 7
138.00] TO 899 [TRUE W T    138.00] CKT 29
  1706.6    123 DIDSBURY    138.00    982 MADDEN T    138.00 80  0.02988    92.0  143.0 OPEN 99 [BENALTO7
138.00] TO 956 [758L JCT    138.00] CKT 57
  1711.6    128 ELLERSLI    240.00  99500 PONOKA_NEW  240.00 10  0.17338   202.2  499.0 OPEN 155 [BENALTO4
 240.00] TO 420 [KEEPHIL4    240.00] CKT 90
  1715.4    128 ELLERSLI    240.00  99500 PONOKA_NEW  240.00 10  0.17318   201.9  499.0 OPEN 155 [BENALTO4
 240.00] TO 420 [KEEPHIL4    240.00] CKT 03
  1716.5    128 ELLERSLI    240.00     81 BIGSTON4    240.00 14  0.14905   243.1  499.0
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                                                                                OPEN 155 [BENALTO4
240.00] TO 9000 [DIDSBURY_NEW240.00] CKT 18
  1719.2*   123 DIDSBURY    138.00    982 MADDEN T    138.00 80  0.02988    91.6  143.0 OPEN 205 [AMOCO R7
 138.00] TO 257 [LIMESTO7    138.00] CKT 64
  1729.1    152 RED DEE4    240.00    988 CROSSF T    240.00 01  0.16951   200.9  494.0
------------------------------------------------------------
                                                                                    OPEN 99700
[INNISFAIL_NE240.00] TO 160 [JANET  4    240.00] CKT 29
  1761.8    152 RED DEE4    240.00  99700 INNISFAIL_NE240.00 29  0.15282   229.8  499.0 OPEN 155 [BENALTO4
 240.00] TO 161 [SARCEE 4    240.00] CKT 06
  1762.5    152 RED DEE4    240.00  99700 INNISFAIL_NE240.00 29  0.15282   229.6  499.0 OPEN 155 [BENALTO4
 240.00] TO 161 [SARCEE 4    240.00] CKT 28
  1766.1    152 RED DEE4    240.00    988 CROSSF T    240.00 01  0.16383   204.7  494.0 OPEN 155 [BENALTO4
 240.00] TO 161 [SARCEE 4    240.00] CKT 06
  1766.8    152 RED DEE4    240.00    988 CROSSF T    240.00 01  0.16383   204.5  494.0 OPEN 155 [BENALTO4
 240.00] TO 161 [SARCEE 4    240.00] CKT 28
  1767.8    120 INNISFA7    138.00  99700 INNISFAIL_NE240.00 T1 -0.05190  -108.3  200.0
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                                                                                OPEN 155 [BENALTO4
240.00] TO 9000 [DIDSBURY_NEW240.00] CKT 18
  1768.0    128 ELLERSLI    240.00     81 BIGSTON4    240.00 14  0.14103   249.7  499.0 OPEN 355 [NOVA C27
 138.00] TO 383 [JOFFRE 7    138.00] CKT 2
  1770.3    128 ELLERSLI    240.00  99500 PONOKA_NEW  240.00 10  0.17542   188.4  499.0 OPEN 147 [GAETZ  4
 240.00] TO 152 [RED DEE4    240.00] CKT 14
  1775.8*   128 ELLERSLI    240.00     81 BIGSTON4    240.00 14  0.14532   240.9  499.0 OPEN 155 [BENALTO4
 240.00] TO 161 [SARCEE 4    240.00] CKT 06
  1812.5     81 BIGSTON4    240.00    147 GAETZ  4    240.00 14  0.19138   152.1  499.0 OPEN 155 [BENALTO4
 240.00] TO 135 [SUNDANC4    240.00] CKT 26
  1813.6     81 BIGSTON4    240.00    147 GAETZ  4    240.00 14  0.19133   152.0  499.0 OPEN 155 [BENALTO4
 240.00] TO 135 [SUNDANC4    240.00] CKT 22
  1823.0    155 BENALTO4    240.00    161 SARCEE 4    240.00 06  0.14578   233.2  499.0 OPEN 152 [RED DEE4
 240.00] TO 988 [CROSSF T    240.00] CKT 01
  1828.6    155 BENALTO4    240.00    161 SARCEE 4    240.00 28  0.14576   232.5  499.0 OPEN 152 [RED DEE4
 240.00] TO 988 [CROSSF T    240.00] CKT 01
  1829.1    152 RED DEE4    240.00  99500 PONOKA_NEW  240.00 10 -0.17787  -173.7  499.0 OPEN 155 [BENALTO4
 240.00] TO 135 [SUNDANC4    240.00] CKT 26
  1830.2    152 RED DEE4    240.00  99500 PONOKA_NEW  240.00 10 -0.17782  -173.6  499.0 OPEN 155 [BENALTO4
 240.00] TO 135 [SUNDANC4    240.00] CKT 22
  1840.7    147 GAETZ  4    240.00    152 RED DEE4    240.00 14  0.19382   142.2  499.0
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                                                                                    OPEN 152 [RED DEE4
240.00] TO 99500 [PONOKA_NEW  240.00] CKT 10
  1871.8    128 ELLERSLI    240.00  99500 PONOKA_NEW  240.00 10  0.16121   197.3  499.0 OPEN 155 [BENALTO4
 240.00] TO 995 [W.GRN TP    240.00] CKT 95
  1878.6    155 BENALTO4    240.00    161 SARCEE 4    240.00 06  0.13876   238.3  499.0 OPEN 152 [RED DEE4
 240.00] TO 155 [BENALTO4    240.00] CKT 00
  1884.4    155 BENALTO4    240.00    161 SARCEE 4    240.00 28  0.13875   237.5  499.0 OPEN 152 [RED DEE4
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 240.00] TO 155 [BENALTO4    240.00] CKT 00
  1888.7    155 BENALTO4    240.00    161 SARCEE 4    240.00 06  0.14133   232.1  499.0
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                                                                          OPEN 152 [RED DEE4
240.00] TO 99700 [INNISFAIL_NE240.00] CKT 29
  1893.8    155 BENALTO4    240.00    161 SARCEE 4    240.00 06  0.14230   229.5  499.0 OPEN 152 [RED DEE4
 240.00] TO 160 [JANET  4    240.00] CKT 25
  1894.5    155 BENALTO4    240.00    161 SARCEE 4    240.00 28  0.14132   231.3  499.0
-------------------------------------------------------------------
                                                                          OPEN 152 [RED DEE4
240.00] TO 99700 [INNISFAIL_NE240.00] CKT 29
  1899.5    155 BENALTO4    240.00    161 SARCEE 4    240.00 28  0.14228   228.7  499.0 OPEN 152 [RED DEE4
 240.00] TO 160 [JANET  4    240.00] CKT 25
  1903.3    128 ELLERSLI    240.00  99500 PONOKA_NEW  240.00 10  0.16480   185.3  499.0
-------------------------------------------------------------------
                                                                           OPEN 155 [BENALTO4
240.00] TO 9000 [DIDSBURY_NEW240.00] CKT 18
  1910.6    107 SUNDRE 7    138.00    370 SHELL C7    138.00 19 -0.03464   -81.8  148.0
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                                                                          OPEN 99700
[INNISFAIL_NE240.00] TO 120 [INNISFA7    138.00] CKT T1
  1914.6    152 RED DEE4    240.00  99500 PONOKA_NEW  240.00 10 -0.17040  -172.8  499.0 OPEN 152 [RED DEE4
 240.00] TO 155 [BENALTO4    240.00] CKT 00
  1915.3     81 BIGSTON4    240.00    147 GAETZ  4    240.00 14  0.18576   143.2  499.0 OPEN 155 [BENALTO4
 240.00] TO 420 [KEEPHIL4    240.00] CKT 90
  1917.5    152 RED DEE4    240.00  99500 PONOKA_NEW  240.00 10 -0.17338  -166.5  499.0 OPEN 155 [BENALTO4
 240.00] TO 420 [KEEPHIL4    240.00] CKT 90
  1919.2     81 BIGSTON4    240.00    147 GAETZ  4    240.00 14  0.18555   142.9  499.0 OPEN 155 [BENALTO4
 240.00] TO 420 [KEEPHIL4    240.00] CKT 03
  1921.5    152 RED DEE4    240.00  99500 PONOKA_NEW  240.00 10 -0.17318  -166.2  499.0 OPEN 155 [BENALTO4
 240.00] TO 420 [KEEPHIL4    240.00] CKT 03
  1927.3     81 BIGSTON4    240.00    147 GAETZ  4    240.00 14  0.18196   148.3  499.0 OPEN 152 [RED DEE4
 240.00] TO 155 [BENALTO4    240.00] CKT 00
  1937.1    155 BENALTO4    240.00    161 SARCEE 4    240.00 06  0.14088   226.1  499.0
-------------------------------------------------------------------
                                                                          OPEN 99700
[INNISFAIL_NE240.00] TO 160 [JANET  4    240.00] CKT 29
  1942.8    155 BENALTO4    240.00    161 SARCEE 4    240.00 28  0.14087   225.3  499.0
-------------------------------------------------------------------
                                                                          OPEN 99700
[INNISFAIL_NE240.00] TO 160 [JANET  4    240.00] CKT 29
  1961.8    123 DIDSBURY    138.00   9000 DIDSBURY_NEW240.00 T1  0.09843     6.9  200.0
-------------------------------------------------------------------
                                                                           OPEN 155 [BENALTO4
240.00] TO 9000 [DIDSBURY_NEW240.00] CKT 18
  1963.8*   128 ELLERSLI    240.00  99500 PONOKA_NEW  240.00 10  0.16262   179.7  499.0
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                                                                           OPEN 9000
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[DIDSBURY_NEW240.00] TO 187 [BEDDING1    240.00] CKT 18
  1965.4    152 RED DEE4    240.00  99700 INNISFAIL_NE240.00 29  0.14304   217.9  499.0 OPEN 107 [SUNDRE 7
 138.00] TO 370 [SHELL C7    138.00] CKT 19
  1971.8     68 N HOLDE7    138.00     65 BARDO  7    138.00 74 -0.02855   -33.7   90.0 OPEN 147 [GAETZ  4
 240.00] TO 81 [BIGSTON4    240.00] CKT 14
  1973.8    152 RED DEE4    240.00  99500 PONOKA_NEW  240.00 10 -0.17542  -152.8  499.0 OPEN 147 [GAETZ  4
 240.00] TO 152 [RED DEE4    240.00] CKT 14
  1995.3    121 OLDS   7    138.00    123 DIDSBURY    138.00 80  0.05190    39.5  143.0
------------------------------------------------------------------
                                                                                  OPEN 155 [BENALTO4
240.00] TO 9000 [DIDSBURY_NEW240.00] CKT 18
  2003.0    152 RED DEE4    240.00  99700 INNISFAIL_NE240.00 29  0.14546   207.6  499.0
------------------------------------------------------------------
                                                                                  OPEN 9000
[DIDSBURY_NEW240.00] TO 187 [BEDDING1    240.00] CKT 18
  2006.0    420 KEEPHIL4    240.00    155 BENALTO4    240.00 90  0.13981   218.5  499.0 OPEN 155 [BENALTO4
 240.00] TO 135 [SUNDANC4    240.00] CKT 26
  2006.0    155 BENALTO4    240.00    420 KEEPHIL4    240.00 90 -0.13981  -218.5  499.0 OPEN 155 [BENALTO4
 240.00] TO 135 [SUNDANC4    240.00] CKT 26
  2007.4    420 KEEPHIL4    240.00    155 BENALTO4    240.00 90  0.13976   218.4  499.0 OPEN 155 [BENALTO4
 240.00] TO 135 [SUNDANC4    240.00] CKT 22
  2007.4    155 BENALTO4    240.00    420 KEEPHIL4    240.00 90 -0.13976  -218.4  499.0 OPEN 155 [BENALTO4
 240.00] TO 135 [SUNDANC4    240.00] CKT 22
  2018.6    152 RED DEE4    240.00  99700 INNISFAIL_NE240.00 29  0.14304   210.3  499.0 OPEN 107 [SUNDRE 7
 138.00] TO 883 [EAGLE TP    138.00] CKT 19
  2032.3    101 COOKING7    138.00     65 BARDO  7    138.00 74  0.02296    43.3   90.0
------------------------------------------------------------------
                                                                                  OPEN 152 [RED DEE4
240.00] TO 99500 [PONOKA_NEW  240.00] CKT 10
  2037.1    420 KEEPHIL4    240.00    155 BENALTO4    240.00 03  0.13860   216.7  499.0 OPEN 155 [BENALTO4
 240.00] TO 135 [SUNDANC4    240.00] CKT 26
  2037.1    155 BENALTO4    240.00    420 KEEPHIL4    240.00 03 -0.13860  -216.7  499.0 OPEN 155 [BENALTO4
 240.00] TO 135 [SUNDANC4    240.00] CKT 26
  2038.5    420 KEEPHIL4    240.00    155 BENALTO4    240.00 03  0.13855   216.6  499.0 OPEN 155 [BENALTO4
 240.00] TO 135 [SUNDANC4    240.00] CKT 22
  2038.5    155 BENALTO4    240.00    420 KEEPHIL4    240.00 03 -0.13855  -216.6  499.0 OPEN 155 [BENALTO4
 240.00] TO 135 [SUNDANC4    240.00] CKT 22
  2039.4    152 RED DEE4    240.00  99700 INNISFAIL_NE240.00 29  0.14304   207.3  499.0 OPEN 124 [HARMATT7
 138.00] TO 883 [EAGLE TP    138.00] CKT 19
  2049.5    766 VER_TAP     138.00     79 BUFFALO7    138.00 29  0.04352   -39.4   49.8 OPEN 147 [GAETZ  4
 240.00] TO 81 [BIGSTON4    240.00] CKT 14
  2070.5*   152 RED DEE4    240.00  99700 INNISFAIL_NE240.00 29  0.14304   202.8  499.0 OPEN 124 [HARMATT7
 138.00] TO 957 [166L JNC    138.00] CKT 66
  2074.7    420 KEEPHIL4    240.00    155 BENALTO4    240.00 90  0.14139   205.7  499.0
------------------------------------------------------------------
                                                                                  OPEN 152 [RED DEE4
240.00] TO 99500 [PONOKA_NEW  240.00] CKT 10
  2074.7    155 BENALTO4    240.00    420 KEEPHIL4    240.00 90 -0.14139  -205.7  499.0
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                                                        OPEN 152 [RED DEE4
240.00] TO 99500 [PONOKA_NEW  240.00] CKT 10
  2078.0    766 VER_TAP     138.00     79 BUFFALO7    138.00 29  0.04272   -38.9   49.8
------------------------------------------------------------
                                                        OPEN 152 [RED DEE4
240.00] TO 99500 [PONOKA_NEW  240.00] CKT 10
  2081.3     81 BIGSTON4    240.00    147 GAETZ  4    240.00 14  0.17307   138.8  499.0 OPEN 155 [BENALTO4
 240.00] TO 995 [W.GRN TP    240.00] CKT 95
  2081.3    155 BENALTO4    240.00    420 KEEPHIL4    240.00 90 -0.14278  -201.8  499.0 OPEN 147 [GAETZ  4
 240.00] TO 81 [BIGSTON4    240.00] CKT 14
  2081.3    420 KEEPHIL4    240.00    155 BENALTO4    240.00 90  0.14278   201.8  499.0 OPEN 147 [GAETZ  4
 240.00] TO 81 [BIGSTON4    240.00] CKT 14
  2087.8    107 SUNDRE 7    138.00    370 SHELL C7    138.00 19 -0.03483   -75.3  148.0 OPEN 155 [BENALTO4
 240.00] TO 161 [SARCEE 4    240.00] CKT 06
  2088.6    107 SUNDRE 7    138.00    370 SHELL C7    138.00 19 -0.03483   -75.3  148.0 OPEN 155 [BENALTO4
 240.00] TO 161 [SARCEE 4    240.00] CKT 28
  2091.1    107 SUNDRE 7    138.00    370 SHELL C7    138.00 19 -0.03464   -75.6  148.0 OPEN 120 [INNISFA7
 138.00] TO 121 [OLDS   7    138.00] CKT 80
  2093.2    152 RED DEE4    240.00  99500 PONOKA_NEW  240.00 10 -0.16121  -161.6  499.0 OPEN 155 [BENALTO4
 240.00] TO 995 [W.GRN TP    240.00] CKT 95
  2094.1    152 RED DEE4    240.00    160 JANET  4    240.00 25  0.15052   183.8  499.0 OPEN 152 [RED DEE4
 240.00] TO 988 [CROSSF T    240.00] CKT 01
  2094.9    152 RED DEE4    240.00    988 CROSSF T    240.00 01  0.14848   183.0  494.0 OPEN 123 [DIDSBURY
 138.00] TO 982 [MADDEN T    138.00] CKT 80
  2101.7    147 GAETZ  4    240.00    152 RED DEE4    240.00 14  0.16760   146.8  499.0 OPEN 152 [RED DEE4
 240.00] TO 155 [BENALTO4    240.00] CKT 00
  2105.4    420 KEEPHIL4    240.00    155 BENALTO4    240.00 03  0.14017   203.9  499.0
------------------------------------------------------------
                                                        OPEN 152 [RED DEE4
240.00] TO 99500 [PONOKA_NEW  240.00] CKT 10
  2105.4    155 BENALTO4    240.00    420 KEEPHIL4    240.00 03 -0.14017  -203.9  499.0
------------------------------------------------------------
                                                        OPEN 152 [RED DEE4
240.00] TO 99500 [PONOKA_NEW  240.00] CKT 10
  2111.8    420 KEEPHIL4    240.00    155 BENALTO4    240.00 03  0.14154   200.1  499.0 OPEN 147 [GAETZ  4
 240.00] TO 81 [BIGSTON4    240.00] CKT 14
  2111.8    155 BENALTO4    240.00    420 KEEPHIL4    240.00 03 -0.14154  -200.1  499.0 OPEN 147 [GAETZ  4
 240.00] TO 81 [BIGSTON4    240.00] CKT 14
  2120.0    152 RED DEE4    240.00  99500 PONOKA_NEW  240.00 10 -0.16480  -149.6  499.0
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                                                         OPEN 155 [BENALTO4
240.00] TO 9000 [DIDSBURY_NEW240.00] CKT 18
  2121.4     81 BIGSTON4    240.00    147 GAETZ  4    240.00 14  0.17633   124.9  499.0
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                                                         OPEN 155 [BENALTO4
240.00] TO 9000 [DIDSBURY_NEW240.00] CKT 18
  2128.5    152 RED DEE4    240.00    988 CROSSF T    240.00 01  0.14783   179.3  494.0 OPEN 107 [SUNDRE 7
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 138.00] TO 370 [SHELL C7    138.00] CKT 19
  2129.8*   152 RED DEE4    240.00    988 CROSSF T    240.00 01  0.14817   178.4  494.0 OPEN 155 [BENALTO4
 240.00] TO 135 [SUNDANC4    240.00] CKT 26
  2130.0    155 BENALTO4    240.00    161 SARCEE 4    240.00 06  0.13038   221.3  499.0 OPEN 123 [DIDSBURY
 138.00] TO 982 [MADDEN T    138.00] CKT 80
  2136.3    155 BENALTO4    240.00    161 SARCEE 4    240.00 28  0.13037   220.5  499.0 OPEN 123 [DIDSBURY
 138.00] TO 982 [MADDEN T    138.00] CKT 80
  2137.4*   155 BENALTO4    240.00    161 SARCEE 4    240.00 06  0.13257   215.7  499.0
-------------------------------------------------------------------                    OPEN 152 [RED DEE4
240.00] TO 99500 [PONOKA_NEW  240.00] CKT 10
  2138.3    766 VER_TAP     138.00     79 BUFFALO7    138.00 29  0.04117   -38.2   49.8 OPEN 155 [BENALTO4
 240.00] TO 135 [SUNDANC4    240.00] CKT 26
  2139.0    766 VER_TAP     138.00     79 BUFFALO7    138.00 29  0.04116   -38.2   49.8 OPEN 155 [BENALTO4
 240.00] TO 135 [SUNDANC4    240.00] CKT 22
  2143.5*   155 BENALTO4    240.00    161 SARCEE 4    240.00 28  0.13255   214.9  499.0
-------------------------------------------------------------------                    OPEN 152 [RED DEE4
240.00] TO 99500 [PONOKA_NEW  240.00] CKT 10
  2153.6    152 RED DEE4    240.00    160 JANET  4    240.00 25  0.14558   185.5  499.0
-------------------------------------------------------------------                    OPEN 152 [RED DEE4
240.00] TO 99700 [INNISFAIL_NE240.00] CKT 29
  2175.4     81 BIGSTON4    240.00    147 GAETZ  4    240.00 14  0.16745   134.7  499.0 OPEN 355 [NOVA C27
 138.00] TO 383 [JOFFRE 7    138.00] CKT 2
  2183.3*   152 RED DEE4    240.00  99500 PONOKA_NEW  240.00 10 -0.16262  -144.0  499.0
-------------------------------------------------------------------                     OPEN 9000
[DIDSBURY_NEW240.00] TO 187 [BEDDING1    240.00] CKT 18
  2185.6    104 STRACHA7    138.00    890 AMOCO TP    138.00 19  0.01785   104.0  143.0 OPEN 99 [BENALTO7
138.00] TO 882 [SCHRA TP    138.00] CKT 48
  2188.9*    81 BIGSTON4    240.00    147 GAETZ  4    240.00 14  0.17368   118.8  499.0
-------------------------------------------------------------------                     OPEN 9000
[DIDSBURY_NEW240.00] TO 187 [BEDDING1    240.00] CKT 18
  2203.8    107 SUNDRE 7    138.00    370 SHELL C7    138.00 19 -0.03421   -72.6  148.0 OPEN 152 [RED DEE4
 240.00] TO 988 [CROSSF T    240.00] CKT 01
  2206.7    147 GAETZ  4    240.00    152 RED DEE4    240.00 14  0.16685   130.8  499.0 OPEN 155 [BENALTO4
 240.00] TO 135 [SUNDANC4    240.00] CKT 26
  2207.8     25 ENTWIST8    69.000     28 MOON LA8    69.000 29  0.00902    16.1   36.0 OPEN 155 [BENALTO4
 240.00] TO 135 [SUNDANC4    240.00] CKT 26
  2207.8    147 GAETZ  4    240.00    152 RED DEE4    240.00 14  0.16681   130.7  499.0 OPEN 155 [BENALTO4
 240.00] TO 135 [SUNDANC4    240.00] CKT 22
  2209.9     25 ENTWIST8    69.000     28 MOON LA8    69.000 29  0.00901    16.1   36.0 OPEN 155 [BENALTO4
 240.00] TO 135 [SUNDANC4    240.00] CKT 22
  2221.2     20 EDSON  7    138.00     39 CYNTHIA7    138.00 02  0.03121    20.7   90.0 OPEN 147 [GAETZ  4
 240.00] TO 81 [BIGSTON4    240.00] CKT 14
  2223.0    152 RED DEE4    240.00    160 JANET  4    240.00 25  0.14945   166.8  499.0
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                                                                  OPEN 9000
[DIDSBURY_NEW240.00] TO 187 [BEDDING1    240.00] CKT 18
  2225.5    155 BENALTO4    240.00    420 KEEPHIL4    240.00 90 -0.12621  -218.1  499.0 OPEN 155 [BENALTO4
 240.00] TO 995 [W.GRN TP    240.00] CKT 95
  2225.5    420 KEEPHIL4    240.00    155 BENALTO4    240.00 90  0.12621   218.1  499.0 OPEN 155 [BENALTO4
 240.00] TO 995 [W.GRN TP    240.00] CKT 95
  2229.9    101 COOKING7    138.00     65 BARDO  7    138.00 74  0.01785    50.2   90.0 OPEN 70 [CAMROSE7
138.00] TO 94 [ERVICK 7    138.00] CKT 29
  2237.3    766 VER_TAP     138.00     79 BUFFALO7    138.00 29  0.04035   -40.4   49.8
------------------------------------------------------------------
                                                                  OPEN 155 [BENALTO4
240.00] TO 9000 [DIDSBURY_NEW240.00] CKT 18
  2240.3     20 EDSON  7    138.00     39 CYNTHIA7    138.00 02  0.03079    21.0   90.0
------------------------------------------------------------------
                                                                  OPEN 152 [RED DEE4
240.00] TO 99500 [PONOKA_NEW  240.00] CKT 10
  2250.8    766 VER_TAP     138.00     79 BUFFALO7    138.00 29  0.03996   -40.1   49.8 OPEN 155 [BENALTO4
 240.00] TO 420 [KEEPHIL4    240.00] CKT 90
  2252.9    766 VER_TAP     138.00     79 BUFFALO7    138.00 29  0.03994   -40.1   49.8 OPEN 155 [BENALTO4
 240.00] TO 420 [KEEPHIL4    240.00] CKT 03
  2259.3    766 VER_TAP     138.00     79 BUFFALO7    138.00 29  0.04043   -41.5   49.8
------------------------------------------------------------------
                                                                  OPEN 9000
[DIDSBURY_NEW240.00] TO 187 [BEDDING1    240.00] CKT 18
  2260.0    155 BENALTO4    240.00    420 KEEPHIL4    240.00 03 -0.12512  -216.2  499.0 OPEN 155 [BENALTO4
 240.00] TO 995 [W.GRN TP    240.00] CKT 95
  2260.0    420 KEEPHIL4    240.00    155 BENALTO4    240.00 03  0.12512   216.2  499.0 OPEN 155 [BENALTO4
 240.00] TO 995 [W.GRN TP    240.00] CKT 95
  2278.7    766 VER_TAP     138.00     79 BUFFALO7    138.00 29  0.04016   -41.7   49.8 OPEN 147 [GAETZ  4
 240.00] TO 152 [RED DEE4    240.00] CKT 14
  2284.3    107 SUNDRE 7    138.00    370 SHELL C7    138.00 19 -0.03340   -71.7  148.0 OPEN 152 [RED DEE4
 240.00] TO 160 [JANET  4    240.00] CKT 25
  2284.8*   766 VER_TAP     138.00     79 BUFFALO7    138.00 29  0.03957   -40.6   49.8 OPEN 155 [BENALTO4
 240.00] TO 161 [SARCEE 4    240.00] CKT 06
  2285.4    152 RED DEE4    240.00    160 JANET  4    240.00 25  0.14249   173.3  499.0
------------------------------------------------------------------
                                                                  OPEN 155 [BENALTO4
240.00] TO 9000 [DIDSBURY_NEW240.00] CKT 18
  2287.4    107 SUNDRE 7    138.00    370 SHELL C7    138.00 19 -0.03064   -77.9  148.0 OPEN 205 [AMOCO R7
 138.00] TO 890 [AMOCO TP    138.00] CKT 19
  2305.3    152 RED DEE4    240.00    160 JANET  4    240.00 25  0.14203   171.6  499.0
------------------------------------------------------------------
                                                                  OPEN 99700
[INNISFAIL_NE240.00] TO 160 [JANET  4    240.00] CKT 29
  2306.3  99700 INNISFAIL_NE240.00    160 JANET  4    240.00 29  0.15084   151.1  499.0
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                                                                  OPEN 9000
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[DIDSBURY_NEW240.00] TO 187 [BEDDING1    240.00] CKT 18
  2308.9    152 RED DEE4    240.00    155 BENALTO4    240.00 00 -0.17288  -305.8  705.0
-------------------------------------------------------------------
                                                                                 OPEN 155 [BENALTO4
240.00] TO 9000 [DIDSBURY_NEW240.00] CKT 18
  2309.9    147 GAETZ  4    240.00    152 RED DEE4    240.00 14  0.16243   123.8  499.0 OPEN 155 [BENALTO4
 240.00] TO 420 [KEEPHIL4    240.00] CKT 90
  2313.8    147 GAETZ  4    240.00    152 RED DEE4    240.00 14  0.16227   123.5  499.0 OPEN 155 [BENALTO4
 240.00] TO 420 [KEEPHIL4    240.00] CKT 03
  2325.8*   107 SUNDRE 7    138.00    370 SHELL C7    138.00 19 -0.03245   -72.5  148.0 OPEN 152 [RED DEE4
 240.00] TO 155 [BENALTO4    240.00] CKT 00
  2340.2  99700 INNISFAIL_NE240.00    160 JANET  4    240.00 29  0.14395   162.1  499.0 OPEN 152 [RED DEE4
 240.00] TO 988 [CROSSF T    240.00] CKT 01
  2342.8    120 INNISFA7    138.00    121 OLDS   7    138.00 80  0.03819    57.5  147.0
-------------------------------------------------------------------
                                                                                 OPEN 99700
[INNISFAIL_NE240.00] TO 160 [JANET  4    240.00] CKT 29
  2346.1    107 SUNDRE 7    138.00    883 EAGLE TP    138.00 19  0.04061    52.7  148.0
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                                                                                 OPEN 152 [RED DEE4
240.00] TO 99700 [INNISFAIL_NE240.00] CKT 29
  2368.7    101 COOKING7    138.00     65 BARDO  7    138.00 74  0.02008    42.4   90.0 OPEN 155 [BENALTO4
 240.00] TO 135 [SUNDANC4    240.00] CKT 26
  2370.0    101 COOKING7    138.00     65 BARDO  7    138.00 74  0.02007    42.4   90.0 OPEN 155 [BENALTO4
 240.00] TO 135 [SUNDANC4    240.00] CKT 22
  2380.1    152 RED DEE4    240.00    160 JANET  4    240.00 25  0.13626   174.7  499.0 OPEN 155 [BENALTO4
 240.00] TO 161 [SARCEE 4    240.00] CKT 06
  2380.9    152 RED DEE4    240.00    160 JANET  4    240.00 25  0.13626   174.6  499.0 OPEN 155 [BENALTO4
 240.00] TO 161 [SARCEE 4    240.00] CKT 28
  2386.4    124 HARMATT7    138.00    957 166L JNC    138.00 66  0.04061    23.1  120.0
-------------------------------------------------------------------
                                                                                 OPEN 152 [RED DEE4
240.00] TO 99700 [INNISFAIL_NE240.00] CKT 29
  2389.9    147 GAETZ  4    240.00    152 RED DEE4    240.00 14  0.15568   126.9  499.0 OPEN 115 [S RED DE
 138.00] TO 119 [N RED D7    138.00] CKT 80
  2422.5    101 COOKING7    138.00     65 BARDO  7    138.00 74  0.01981    42.0   90.0 OPEN 155 [BENALTO4
 240.00] TO 420 [KEEPHIL4    240.00] CKT 90
  2427.7    101 COOKING7    138.00     65 BARDO  7    138.00 74  0.01978    42.0   90.0 OPEN 155 [BENALTO4
 240.00] TO 420 [KEEPHIL4    240.00] CKT 03
  2431.3     68 N HOLDE7    138.00     65 BARDO  7    138.00 74 -0.02394   -31.8   90.0
-------------------------------------------------------------------
                                                                                 OPEN 152 [RED DEE4
240.00] TO 99500 [PONOKA_NEW  240.00] CKT 10
  2434.6    155 BENALTO4    240.00    420 KEEPHIL4    240.00 90 -0.12661  -190.8  499.0 OPEN 147 [GAETZ  4
 240.00] TO 152 [RED DEE4    240.00] CKT 14
  2434.6    420 KEEPHIL4    240.00    155 BENALTO4    240.00 90  0.12661   190.8  499.0 OPEN 147 [GAETZ  4
 240.00] TO 152 [RED DEE4    240.00] CKT 14
  2440.4    101 COOKING7    138.00     65 BARDO  7    138.00 74  0.01341    57.3   90.0 OPEN 81 [BIGSTON4
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240.00] TO 374 [BIGSTON7    138.00] CKT T1
  2441.2    147 GAETZ  4    240.00    152 RED DEE4    240.00 14  0.15811   113.0  499.0
-------------------------------------------------------------------
                                                                          OPEN 155 [BENALTO4
240.00] TO 9000 [DIDSBURY_NEW240.00] CKT 18
  2463.4*   101 COOKING7    138.00     65 BARDO  7    138.00 74  0.01452    54.2   90.0 OPEN 374 [BIGSTON7
 138.00] TO 804 [803/804X    138.00] CKT 04
  2465.1  99700 INNISFAIL_NE240.00    160 JANET  4    240.00 29  0.13883   156.8  499.0 OPEN 152 [RED DEE4
 240.00] TO 160 [JANET  4    240.00] CKT 25
  2469.0    155 BENALTO4    240.00    420 KEEPHIL4    240.00 03 -0.12551  -189.1  499.0 OPEN 147 [GAETZ  4
 240.00] TO 152 [RED DEE4    240.00] CKT 14
  2469.0    420 KEEPHIL4    240.00    155 BENALTO4    240.00 03  0.12551   189.1  499.0 OPEN 147 [GAETZ  4
 240.00] TO 152 [RED DEE4    240.00] CKT 14
  2470.9    147 GAETZ  4    240.00    152 RED DEE4    240.00 14  0.15817   108.2  499.0
-------------------------------------------------------------------
                                                                          OPEN 9000
[DIDSBURY_NEW240.00] TO 187 [BEDDING1    240.00] CKT 18
  2484.1*   147 GAETZ  4    240.00    152 RED DEE4    240.00 14  0.15244   120.3  499.0 OPEN 155 [BENALTO4
 240.00] TO 995 [W.GRN TP    240.00] CKT 95
  2491.2     20 EDSON  7    138.00     39 CYNTHIA7    138.00 02  0.02837    19.3   90.0 OPEN 155 [BENALTO4
 240.00] TO 420 [KEEPHIL4    240.00] CKT 90
  2492.3     20 EDSON  7    138.00     39 CYNTHIA7    138.00 02  0.02836    19.3   90.0 OPEN 155 [BENALTO4
 240.00] TO 420 [KEEPHIL4    240.00] CKT 03
  2515.1    124 HARMATT7    138.00    883 EAGLE TP    138.00 19 -0.04061   -40.9  143.0
-------------------------------------------------------------------
                                                                          OPEN 152 [RED DEE4
240.00] TO 99700 [INNISFAIL_NE240.00] CKT 29
  2537.9    104 STRACHA7    138.00    890 AMOCO TP    138.00 19  0.01785    97.7  143.0 OPEN 370 [SHELL C7
 138.00] TO 882 [SCHRA TP    138.00] CKT 48
  2549.1    123 DIDSBURY    138.00    957 166L JNC    138.00 66 -0.04061   -18.5  122.0
-------------------------------------------------------------------
                                                                          OPEN 152 [RED DEE4
240.00] TO 99700 [INNISFAIL_NE240.00] CKT 29
  2562.9    155 BENALTO4    240.00    420 KEEPHIL4    240.00 90 -0.12101  -188.9  499.0
-------------------------------------------------------------------
                                                                          OPEN 152 [RED DEE4
240.00] TO 99700 [INNISFAIL_NE240.00] CKT 29
  2562.9    420 KEEPHIL4    240.00    155 BENALTO4    240.00 90  0.12101   188.9  499.0
-------------------------------------------------------------------
                                                                          OPEN 152 [RED DEE4
240.00] TO 99700 [INNISFAIL_NE240.00] CKT 29
  2574.8    155 BENALTO4    240.00    420 KEEPHIL4    240.00 90 -0.12081  -187.9  499.0 OPEN 152 [RED DEE4
 240.00] TO 988 [CROSSF T    240.00] CKT 01
  2574.8    420 KEEPHIL4    240.00    155 BENALTO4    240.00 90  0.12081   187.9  499.0 OPEN 152 [RED DEE4
 240.00] TO 988 [CROSSF T    240.00] CKT 01
  2589.2*   420 KEEPHIL4    240.00    155 BENALTO4    240.00 90  0.12034   187.4  499.0 OPEN 152 [RED DEE4
 240.00] TO 160 [JANET  4    240.00] CKT 25
  2589.2*   155 BENALTO4    240.00    420 KEEPHIL4    240.00 90 -0.12034  -187.4  499.0 OPEN 152 [RED DEE4
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 240.00] TO 160 [JANET  4    240.00] CKT 25
  2594.8     20 EDSON  7    138.00     39 CYNTHIA7    138.00 02  0.02766    18.2   90.0 BASE CASE
  2598.9    155 BENALTO4    240.00    420 KEEPHIL4    240.00 03 -0.11996  -187.2  499.0
------------------------------------------------------------------                    OPEN 152 [RED DEE4
240.00] TO 99700 [INNISFAIL_NE240.00] CKT 29
  2598.9    420 KEEPHIL4    240.00    155 BENALTO4    240.00 03  0.11996   187.2  499.0
------------------------------------------------------------------                    OPEN 152 [RED DEE4
240.00] TO 99700 [INNISFAIL_NE240.00] CKT 29
  2610.8    155 BENALTO4    240.00    420 KEEPHIL4    240.00 03 -0.11976  -186.3  499.0 OPEN 152 [RED DEE4
 240.00] TO 988 [CROSSF T    240.00] CKT 01
  2610.8    420 KEEPHIL4    240.00    155 BENALTO4    240.00 03  0.11976   186.3  499.0 OPEN 152 [RED DEE4
 240.00] TO 988 [CROSSF T    240.00] CKT 01
  2612.2     20 EDSON  7    138.00     39 CYNTHIA7    138.00 02  0.02791    17.1   90.0 OPEN 81 [BIGSTON4
240.00] TO 374 [BIGSTON7    138.00] CKT T1
  2625.4*   420 KEEPHIL4    240.00    155 BENALTO4    240.00 03  0.11929   185.8  499.0 OPEN 152 [RED DEE4
 240.00] TO 160 [JANET  4    240.00] CKT 25
  2625.4*   155 BENALTO4    240.00    420 KEEPHIL4    240.00 03 -0.11929  -185.8  499.0 OPEN 152 [RED DEE4
 240.00] TO 160 [JANET  4    240.00] CKT 25
  2635.3  99700 INNISFAIL_NE240.00    160 JANET  4    240.00 29  0.13080   154.3  499.0 OPEN 155 [BENALTO4
 240.00] TO 161 [SARCEE 4    240.00] CKT 06
  2636.2  99700 INNISFAIL_NE240.00    160 JANET  4    240.00 29  0.13079   154.2  499.0 OPEN 155 [BENALTO4
 240.00] TO 161 [SARCEE 4    240.00] CKT 28
  2719.0    104 STRACHA7    138.00    890 AMOCO TP    138.00 19  0.01821    93.5  143.0
------------------------------------------------------------------                     OPEN 155 [BENALTO4
240.00] TO 9000 [DIDSBURY_NEW240.00] CKT 18
  2737.4  99700 INNISFAIL_NE240.00    160 JANET  4    240.00 29  0.12956   144.3  499.0
------------------------------------------------------------------                     OPEN 155 [BENALTO4
240.00] TO 9000 [DIDSBURY_NEW240.00] CKT 18
  2763.2    152 RED DEE4    240.00    155 BENALTO4    240.00 00 -0.15743  -270.0  705.0
------------------------------------------------------------------                    OPEN 152 [RED DEE4
240.00] TO 99500 [PONOKA_NEW  240.00] CKT 10
  2764.7     68 N HOLDE7    138.00     65 BARDO  7    138.00 74 -0.02199   -29.2   90.0 OPEN 147 [GAETZ  4
 240.00] TO 152 [RED DEE4    240.00] CKT 14
  2788.2    107 SUNDRE 7    138.00    883 EAGLE TP    138.00 19  0.03464    51.4  148.0
------------------------------------------------------------------                    OPEN 99700
[INNISFAIL_NE240.00] TO 120 [INNISFA7    138.00] CKT T1
  2799.7     20 EDSON  7    138.00     39 CYNTHIA7    138.00 02  0.02655    15.7   90.0 OPEN 152 [RED DEE4
 240.00] TO 155 [BENALTO4    240.00] CKT 00
  2808.3     68 N HOLDE7    138.00     65 BARDO  7    138.00 74 -0.02097   -31.1   90.0 OPEN 155 [BENALTO4
 240.00] TO 135 [SUNDANC4    240.00] CKT 26
  2809.9     68 N HOLDE7    138.00     65 BARDO  7    138.00 74 -0.02096   -31.1   90.0 OPEN 155 [BENALTO4
 240.00] TO 135 [SUNDANC4    240.00] CKT 22
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  2828.7    152 RED DEE4    240.00    155 BENALTO4    240.00 00 -0.15848  -256.7  705.0 OPEN 147 [GAETZ  4
 240.00] TO 81 [BIGSTON4    240.00] CKT 14
  2835.3    152 RED DEE4    240.00    160 JANET  4    240.00 25  0.12168   154.0  499.0 OPEN 123 [DIDSBURY
 138.00] TO 982 [MADDEN T    138.00] CKT 80
  2835.4    124 HARMATT7    138.00    957 166L JNC    138.00 66  0.03464    21.8  120.0
------------------------------------------------------------------
                                                                              OPEN 99700
[INNISFAIL_NE240.00] TO 120 [INNISFA7    138.00] CKT T1
  2842.1    120 INNISFA7    138.00  99700 INNISFAIL_NE240.00 T1 -0.03819   -91.5  200.0
------------------------------------------------------------------
                                                                              OPEN 99700
[INNISFAIL_NE240.00] TO 160 [JANET  4    240.00] CKT 29
  2878.0    152 RED DEE4    240.00    160 JANET  4    240.00 25  0.12136   149.7  499.0 OPEN 155 [BENALTO4
 240.00] TO 135 [SUNDANC4    240.00] CKT 26
  2878.2*   152 RED DEE4    240.00    160 JANET  4    240.00 25  0.12135   149.7  499.0 OPEN 155 [BENALTO4
 240.00] TO 135 [SUNDANC4    240.00] CKT 22
  2895.5     68 N HOLDE7    138.00     65 BARDO  7    138.00 74 -0.02081   -29.7   90.0
------------------------------------------------------------------
                                                                               OPEN 155 [BENALTO4
240.00] TO 9000 [DIDSBURY_NEW240.00] CKT 18
  2898.2     68 N HOLDE7    138.00     65 BARDO  7    138.00 74 -0.02055   -30.5   90.0 OPEN 155 [BENALTO4
 240.00] TO 420 [KEEPHIL4    240.00] CKT 90
  2904.5     68 N HOLDE7    138.00     65 BARDO  7    138.00 74 -0.02052   -30.4   90.0 OPEN 155 [BENALTO4
 240.00] TO 420 [KEEPHIL4    240.00] CKT 03
  2909.9  99700 INNISFAIL_NE240.00    160 JANET  4    240.00 29  0.12041   148.6  499.0
------------------------------------------------------------------
                                                                              OPEN 99700
[INNISFAIL_NE240.00] TO 120 [INNISFA7    138.00] CKT T1
  2924.4    152 RED DEE4    240.00    155 BENALTO4    240.00 00 -0.15436  -253.6  705.0
------------------------------------------------------------------
                                                                               OPEN 9000
[DIDSBURY_NEW240.00] TO 187 [BEDDING1    240.00] CKT 18
  2932.5     68 N HOLDE7    138.00     65 BARDO  7    138.00 74 -0.02097   -28.5   90.0
------------------------------------------------------------------
                                                                               OPEN 9000
[DIDSBURY_NEW240.00] TO 187 [BEDDING1    240.00] CKT 18
  2960.5    107 SUNDRE 7    138.00    883 EAGLE TP    138.00 19  0.03483    44.9  148.0 OPEN 155 [BENALTO4
 240.00] TO 161 [SARCEE 4    240.00] CKT 06
  2961.3    107 SUNDRE 7    138.00    883 EAGLE TP    138.00 19  0.03483    44.9  148.0 OPEN 155 [BENALTO4
 240.00] TO 161 [SARCEE 4    240.00] CKT 28
  2963.3    119 N RED D7    138.00    148 GAETZ  7    138.00 78 -0.04241   -94.3  220.0 OPEN 147 [GAETZ  4
 240.00] TO 152 [RED DEE4    240.00] CKT 14
  2963.3    119 N RED D7    138.00    148 GAETZ  7    138.00 68 -0.04241   -94.3  220.0 OPEN 147 [GAETZ  4
 240.00] TO 152 [RED DEE4    240.00] CKT 14
  2968.7    107 SUNDRE 7    138.00    883 EAGLE TP    138.00 19  0.03464    45.2  148.0 OPEN 120 [INNISFA7
 138.00] TO 121 [OLDS   7    138.00] CKT 80
  2986.2    124 HARMATT7    138.00    883 EAGLE TP    138.00 19 -0.03464   -39.6  143.0
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OPEN 99700
[INNISFAIL_NE240.00] TO 120 [INNISFA7 138.00] CKT T1
2997.5 99700 INNISFAIL_NE240.00 160 JANET 4 240.00 29 0.12041 138.1 499.0 OPEN 120 [INNISFA7
138.00] TO 121 [OLDS 7 138.00] CKT 80

PTI INTERACTIVE POWER SYSTEM SIMULATOR--PSS/E TUE, MAR 08 2011 9:54
RED DEER AND DIDSBURY AREA STUDY PAGE 3
2012 WINTER PEAK BASE CASE REVISION 6.5
*** TLTG EXPORT LIMIT OUTPUT FOR SUBSYSTEM N-OF-SOK ***

* MONITORED ELEMENTS OCCURRING 10 OR MORE TIMES

NO. TIMES	MONITORED ELEMENT F R O M			MONITORED ELEMENT T O			CKT
65	147	GAETZ 4	240.00	152	RED DEE4	240.00	14
45	152	RED DEE4	240.00	99700	INNISFAIL_NE	240.00	29
45	9000	DIDSBURY_NEW	240.00	187	BEDDING1	240.00	18
43	155	BENALTO4	240.00	9000	DIDSBURY_NEW	240.00	18
42	152	RED DEE4	240.00	988	CROSSF T	240.00	01
40	128	ELLERSLI	240.00	81	BIGSTON4	240.00	14
40	155	BENALTO4	240.00	161	SARCEE 4	240.00	06
40	155	BENALTO4	240.00	161	SARCEE 4	240.00	28
38	81	BIGSTON4	240.00	147	GAETZ 4	240.00	14
38	123	DIDSBURY	138.00	982	MADDEN T	138.00	80
35	152	RED DEE4	240.00	160	JANET 4	240.00	25
32	128	ELLERSLI	240.00	99500	PONOKA_NEW	240.00	10
32	152	RED DEE4	240.00	99500	PONOKA_NEW	240.00	10
27	155	BENALTO4	240.00	135	SUNDANC4	240.00	22
27	155	BENALTO4	240.00	135	SUNDANC4	240.00	26
27	135	SUNDANC4	240.00	155	BENALTO4	240.00	22
27	135	SUNDANC4	240.00	155	BENALTO4	240.00	26
26	107	SUNDRE 7	138.00	370	SHELL C7	138.00	19
25	155	BENALTO4	240.00	420	KEEPHIL4	240.00	90
25	420	KEEPHIL4	240.00	155	BENALTO4	240.00	90
24	155	BENALTO4	240.00	420	KEEPHIL4	240.00	03
24	420	KEEPHIL4	240.00	155	BENALTO4	240.00	03
23	766	VER_TAP	138.00	79	BUFFALO7	138.00	29
20	101	COOKING7	138.00	65	BARDO 7	138.00	74

Alternative 2-2012SP-TLTG-Result

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     PTI INTERACTIVE POWER SYSTEM SIMULATOR--PSS/E   TUE, MAR 08 2011   9:52
 RED DEER AND DIDSBURY AREA STUDY                                    PAGE 1
 2012 SUMMER PEAK BASE CASE REVISION 6.5
        *** TLTG EXPORT LIMIT OUTPUT FOR BASE CASE                ***

 DISTRIBUTION FACTOR FILE:     C:\Documents and Settings\zheny2\My Documents\AESO-RED DEER\New Final Case
01-03-2011\2012\TLTG(Transfer Capability Study
 SUBSYSTEM DESCRIPTION FILE:   C:\Documents and Settings\zheny2\My Documents\AESO-RED DEER\New Final Case
01-03-2011\2012\TLTG(Transfer Capability Study
 MONITORED ELEMENT FILE:       C:\Documents and Settings\zheny2\My Documents\AESO-RED DEER\New Final Case
01-03-2011\2012\TLTG(Transfer Capability Study
 CONTINGENCY DESCRIPTION FILE: C:\Documents and Settings\zheny2\My Documents\AESO-RED DEER\New Final Case
01-03-2011\2012\TLTG(Transfer Capability Study

                                PRE-SHIFT    DELTA  POST-SHIFT
 STUDY SYSTEM MW GENERATION:       7481.2     100.0    7581.2
 OPPOSING SYSTEM MW GENERATION:     205.0    -100.0     105.0
 STUDY SYSTEM NET INTERCHANGE:     1054.2     100.0    1154.2

 <---------------- STUDY SYSTEM -----------------> <--------------- OPPOSING SYSTEM --------------->
                          <---- GENERATOR MW ---->                          <---- GENERATOR MW ---->
   BUS# X-- NAME --X BASKV    BASE   SHIFT  CHANGE   BUS# X-- NAME --X BASKV    BASE   SHIFT  CHANGE
     14 WESGEN 9    13.800    15.3    15.5     0.2   3187 CECST       13.800   100.0    52.2   -47.8
    129 SUND#1GN    18.000   150.0   153.1     3.1   3290 BALZ 3      13.800    40.0    18.4   -21.6
    130 SUND#3GN    20.000   380.0   384.1     4.1   4290 BALZ 1&2    13.800    65.0    34.5   -30.5
    338 SUND#2GN    18.000   302.0   305.1     3.1
    342 SUND#4GN    20.000   420.0   424.1     4.1
    345 SUND#5GN    20.000   380.0   384.1     4.1
    350 SUND#6GN    20.000   370.0   374.4     4.4
    408 WHITEGE9    12.500    25.0    25.3     0.3
    422 KEEP#1GN    19.000   400.0   404.1     4.1
    424 KEEP#2GN    19.000   409.0   413.1     4.1
    454 DOW GEN1    14.400    80.0    81.0     1.0
    490 GENES 39    22.000   450.0   455.4     5.4
    491 GENES 19    20.500   155.4   159.9     4.5
    492 GENES 29    20.500   380.0   384.5     4.5
    627 AIR LIQC    13.800    84.0    84.9     0.9
   1015 FORT NE9    13.800    40.0    40.5     0.5
   1035 RBW 4       13.800    20.0    20.5     0.5
   1089 DIASHOW9    13.800    15.0    15.4     0.4
   1141 P&G    9    13.800    15.0    15.3     0.3
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1148	HR MILN9	15.000	140.0	141.5	1.5
2030	DOWSTG 9	14.700	45.0	45.5	0.5
2031	DOWGTG 9	13.800	45.0	45.9	0.9
2248	MAHKE-G2	13.800	85.0	86.0	1.0
2392	ALPAC2	13.800	64.0	64.9	0.9
2405	CONKLIN2	13.800	76.5	77.4	0.9
3050	REDW GT	13.800	37.0	37.7	0.7
3248	MAHKE-G1	13.800	70.0	71.0	1.0
3301	FCG1	13.800	40.0	40.4	0.4
3302	FCG2	13.800	40.0	40.4	0.4
4185	SCOTF GT	13.800	82.0	83.0	1.0
7185	SCOTF ST	13.800	80.0	81.0	1.0
10236	MUSKEG4	13.800	76.5	77.5	1.0
12236	MUSKEG6	13.800	76.5	77.5	1.0
12249	LNGLKCG1	13.800	72.0	73.0	1.0
13249	LNGLKCG2	13.800	72.0	73.0	1.0
16218	SUNC_G19	13.800	13.1	13.4	0.4
16219	MIL_G3	13.800	47.9	48.6	0.7
16233	SYNC_UE5	13.800	71.2	72.1	0.9
17101	GPEP39	13.800	17.8	18.1	0.3
17209	SYNC_G39	13.800	18.4	18.7	0.3
17210	SYNC_G49	13.800	36.7	37.3	0.6
17233	SYNC_UE4	13.800	12.6	12.9	0.3
18142	BEARCK2	13.800	30.0	30.6	0.6
18206	AUR_GTG2	13.800	74.5	75.4	1.0
18207	AUR_GTG1	13.800	69.8	70.8	1.0
18208	MIL_G5 9	13.800	90.0	91.3	1.3
18209	SYNC_G29	13.800	37.7	38.3	0.6
18210	SYNC_G59	13.800	18.4	18.7	0.3
18218	SUNC G29	13.800	13.1	13.4	0.4
18223	TAR-GN-2	13.800	50.5	51.3	0.8
18264	HORUP7	13.800	77.7	78.6	0.9
18274	MACKAY2	18.000	148.5	150.2	1.7
18302	PRIM GEN	13.800	80.0	81.0	1.0
19142	BEARCK3	13.800	30.0	30.4	0.4
19208	MIL_G6 9	13.800	90.0	91.3	1.3
19209	SYNC_G19	13.800	37.7	38.3	0.6
19210	SYNC_G69	13.800	27.9	28.6	0.7
19264	HORUP6	13.800	14.6	14.7	0.2
19268	HORUP10	13.800	77.7	78.6	0.9
90101	CBAR GT1	13.800	20.0	20.5	0.5
90102	CBAR GT2	13.800	50.0	51.1	1.1
90103	CBAR GT3	13.800	50.0	51.1	1.1
90351	KEEUN3	22.000	450.0	455.4	5.4
90517	SH_UG32	13.800	18.0	18.2	0.2

91521	BIOMASS1	12.500	33.0	33.3	0.3
91522	BIOMASS2	12.500	33.0	33.3	0.3
96083	SHELLCM2	18.000	160.0	162.3	2.3
96118	POPLAR05	13.800	85.0	86.0	1.0
97247	SURMONT 13	13.800	65.0	66.0	1.0
97275	G-L_CG2	13.800	130.0	131.9	1.9
97276	G-L_CG3	13.800	130.0	131.9	1.9
97277	G-L_CG4	13.800	80.0	81.0	1.0
97361	DEER CK 13.8	13.800	81.0	82.0	1.0

LOADINGS AT OR ABOVE 100.0 %
OF RATING ARE MARKED WITH '*'

<------- F R O M ------->			<--------- T O --------->			CKT	INCR. TRANS CAPAB	<---------- BASE CASE ----------> RATING A	PRE-SHIFT MW	POST-SHIFT MW	LIMIT CASE MW	DISTR. FACTOR
155	BENALTO4	240.00	9000	DIDSBURY_NEW	240.00	18	938.8	417	218.7	239.8	417.0*	0.21125
9000	DIDSBURY_NEW	240.00	187	BEDDING1	240.00	18	1162.8	417	145.3	168.7	364.7	0.23367
123	DIDSBURY	138.00	982	MADDEN T	138.00	80	1495.1	122	77.2	80.2	105.3	0.02998
155	BENALTO4	240.00	135	SUNDANC4	240.00	26	1605.7	466	-219.1	-234.5	-363.5	-0.15378
135	SUNDANC4	240.00	155	BENALTO4	240.00	26	1605.7	466	219.1	234.5	363.5	0.15378
135	SUNDANC4	240.00	155	BENALTO4	240.00	22	1611.8	466	218.6	233.9	362.7	0.15351
155	BENALTO4	240.00	135	SUNDANC4	240.00	22	1611.8	466	-218.6	-233.9	-362.7	-0.15351
152	RED DEE4	240.00	988	CROSSF T	240.00	01	1770.8	408	149.6	164.2	286.6	0.14590
107	SUNDRE 7	138.00	370	SHELL C7	138.00	19	1812.4	120	-64.3	-67.4	-93.2	-0.03071
128	ELLERSLI	240.00	81	BIGSTON4	240.00	14	1933.6	481	205.9	220.2	339.5	0.14225
128	ELLERSLI	240.00	99500	PONOKA_NEW	240.00	10	2001.2	466	151.1	166.8	298.8	0.15735
155	BENALTO4	240.00	161	SARCEE 4	240.00	06	2046.1	449	188.9	201.6	308.2	0.12714
155	BENALTO4	240.00	161	SARCEE 4	240.00	28	2051.2	449	188.2	201.0	307.6	0.12713
152	RED DEE4	240.00	99500	PONOKA_NEW	240.00	10	2191.8	466	-121.1	-136.9	-268.9	-0.15735
152	RED DEE4	240.00	99700	INNISFAIL_NE	240.00	29	2233.6	481	178.1	191.6	305.4	0.13562
124	HARMATT7	138.00	957	166L JNC	138.00	66	2256.3	78	8.7	11.8	37.5	0.03071
81	BIGSTON4	240.00	147	GAETZ 4	240.00	14	2354.6	499	101.6	118.5	260.1	0.16876
25	ENTWIST8	69.000	28	MOON LA8	69.000	29	2458.7	29	11.7	12.4	18.3	0.00703
20	EDSON 7	138.00	39	CYNTHIA7	138.00	02	2529.2	85	15.4	18.1	41.2	0.02753
123	DIDSBURY	138.00	957	166L JNC	138.00	66	2537.3	81	-3.1	-6.2	-31.9	-0.03071
420	KEEPHIL4	240.00	155	BENALTO4	240.00	90	2581.1	466	158.0	169.9	270.0	0.11933
155	BENALTO4	240.00	420	KEEPHIL4	240.00	90	2581.1	466	-158.0	-169.9	-270.0	-0.11933
420	KEEPHIL4	240.00	155	BENALTO4	240.00	03	2615.2	466	156.6	168.5	267.7	0.11830
155	BENALTO4	240.00	420	KEEPHIL4	240.00	03	2615.2	466	-156.6	-168.5	-267.7	-0.11830
107	SUNDRE 7	138.00	883	EAGLE TP	138.00	19	2726.6	120	36.3	39.3	65.1	0.03071
766	BAT_BUS_DATA	138.00	79	BUFFALO7	138.00	29	2881.8	50	-49.2	-45.8	-16.9	0.03436
147	GAETZ 4	240.00	152	RED DEE4	240.00	14	2890.3	499	67.8	82.7	207.8	0.14919
152	RED DEE4	240.00	160	JANET 4	240.00	25	2925.0	481	132.0	143.9	244.0	0.11931
101	COOKING7	138.00	65	BARDO 7	138.00	74	3000.3	85	30.8	32.6	47.7	0.01808
124	HARMATT7	138.00	883	EAGLE TP	138.00	19	3083.3	120	-25.3	-28.4	-54.1	-0.03071
99700	INNISFAIL_NE	240.00	160	JANET 4	240.00	29	3211.9	481	115.1	126.5	222.0	0.11392

68	N HOLDE7	138.00	65	BARDO 7	138.00	74	3406.6	85	-21.2	-23.1	-38.8	-0.01872
104	STRACHA7	138.00	890	AMOCO TP	138.00	19	3951.2	120	81.7	82.7	90.8	0.00970
120	INNISFA7	138.00	121	OLDS 7	138.00	80	4106.5	122	32.9	35.1	53.3	0.02169
152	RED DEE4	240.00	155	BENALTO4	240.00	00	4214.5	584	-199.0	-208.1	-284.8	-0.09135
76	IPPL ST7	138.00	14001	HEISLERTAP	138.00	1	4526.1	95	-54.8	-51.5	-23.7	0.03309
121	OLDS 7	138.00	123	DIDSBURY	138.00	80	5413.8	122	4.6	6.7	24.9	0.02169
99	BENALTO7	138.00	882	SCHRA TP	138.00	48	6136.8	174	45.1	47.2	64.8	0.02101
120	INNISFA7	138.00	99700	INNISFAIL_NE	240.00	T1	6376.0	200	-61.7	-63.8	-82.0	-0.02169
155	BENALTO4	240.00	995	W.GRN TP	240.00	95	6506.0	466	-180.8	-185.2	-221.9	-0.04384
881	RAVEN TP	138.00	890	AMOCO TP	138.00	19	6544.9	120	-56.5	-57.5	-65.6	-0.00970
91	NISKU 7	138.00	93	WETASKI7	138.00	58	6556.1	96	-8.9	-7.3	6.1	0.01600
370	SHELL C7	138.00	882	SCHRA TP	138.00	48	6835.9	174	-30.4	-32.5	-50.1	-0.02101
370	SHELL C7	138.00	881	RAVEN TP	138.00	19	6987.9	120	-52.2	-53.2	-61.3	-0.00970
862	PV-TAP7	138.00	362	EDGERTO7	138.00	49	6990.8	88	-35.5	-33.7	-18.9	0.01767
99	BENALTO7	138.00	155	BENALTO4	240.00	T1	8748.8	200	-60.5	-62.0	-75.4	-0.01595
99	BENALTO7	138.00	155	BENALTO4	240.00	T2	8748.8	200	-60.5	-62.0	-75.4	-0.01595
96	DEVON 7	138.00	365	BUFORD 7	138.00	38	9670.2	121	13.2	14.3	23.6	0.01115
105	PIGEON 7	138.00	374	BIGSTON7	138.00	05	10656.8	85	-33.8	-32.7	-23.4	0.01115
99	BENALTO7	138.00	100	ROCKY M7	138.00	17	10802.3	112	7.2	8.2	16.3	0.00970
356	BON GLE7	138.00	365	BUFORD 7	138.00	38	11203.8	121	3.9	2.8	-6.5	-0.01115
81	BIGSTON4	240.00	374	BIGSTON7	138.00	T1	11472.4	200	104.1	101.5	79.2	-0.02651
123	DIDSBURY	138.00	9000	DIDSBURY_NEW	240.00	T1	12022.2	200	-69.6	-67.3	-48.5	0.02242
423	KEEPHIL7	138.00	49	KEYSTON7	138.00	34	12334.2	158	43.5	44.4	52.2	0.00929
105	PIGEON 7	138.00	356	BON GLE7	138.00	37	12411.3	119	19.4	18.3	8.9	-0.01115
93	WETASKI7	138.00	803	803/804N	138.00	04	12721.6	126	-69.3	-67.8	-54.9	0.01536
374	BIGSTON7	138.00	804	803/804X	138.00	04	12741.6	126	69.7	68.1	55.2	-0.01536
100	ROCKY M7	138.00	104	STRACHA7	138.00	70	14403.5	120	-19.7	-18.7	-10.6	0.00970
119	N RED D7	138.00	148	GAETZ 7	138.00	68	16606.5	180	-52.2	-52.9	-59.4	-0.00770
119	N RED D7	138.00	148	GAETZ 7	138.00	78	16606.5	180	-52.2	-52.9	-59.4	-0.00770
147	GAETZ 4	240.00	148	GAETZ 7	138.00	T2	18626.3	200	16.5	17.5	25.7	0.00985
147	GAETZ 4	240.00	148	GAETZ 7	138.00	T1	18915.1	200	16.3	17.3	25.4	0.00971
118	RED DE B	138.00	152	RED DEE4	240.00	T2	20372.6	200	-13.3	-12.3	-3.5	0.01047
117	RED DE A	138.00	152	RED DEE4	240.00	T1	20740.2	200	-13.1	-12.0	-3.4	0.01027
803	803/804N	138.00	804	803/804X	138.00	04	20939.1	126	-34.8	-34.0	-27.6	0.00768
803	803/804N	138.00	804	803/804X	138.00	03	20939.1	126	-34.8	-34.0	-27.6	0.00768
115	S RED DE	138.00	119	N RED D7	138.00	80	21658.0	372	-27.0	-28.5	-41.9	-0.01593
115	S RED DE	138.00	117	RED DE A	138.00	80	24975.0	372	-25.9	-24.3	-10.9	0.01593
117	RED DE A	138.00	118	RED DE B	138.00	1	25147.2	121	-21.3	-20.7	-16.0	0.00566
152	RED DEE4	240.00	1422	NEVIS 4	240.00	12	33653.9	499	-100.2	-98.4	-83.5	0.01780
	INTERFACE SOK						38532.7	2050	-212.8	-206.9	-157.6	0.05872
383	JOFFRE 7	138.00	664	PIPER CR	138.00	55	57044.7	252	44.7	45.1	48.2	0.00363
118	RED DE B	138.00	664	PIPER CR	138.00	55	68940.8	252	-1.5	-1.9	-4.9	-0.00363
94	ERVICK 7	138.00	899	TRUE W T	138.00	29	86570.0	85	-29.3	-29.3	-29.9	-0.00064
65	BARDO 7	138.00	946	KING TAP	138.00	30	>99999.	86	9.5	9.5	8.9	-0.00064
70	CAMROSE7	138.00	94	ERVICK 7	138.00	29	>99999.	85	-16.6	-16.6	-17.2	-0.00064

70	CAMROSE7	138.00	946	KING TAP	138.00	30	>99999.	85	-9.4	-9.3	-8.8	0.00064
93	WETASKI7	138.00	899	TRUE W T	138.00	29	>99999.	96	29.5	29.6	30.1	0.00064
95	PONOKA 7	138.00	192	NELSON L	138.00	1	>99999.	96	7.2	7.2	7.2	0.00000
95	PONOKA 7	138.00	99501	PONOKAT1	240.00	T1	>99999.	100	-14.3	-14.3	-14.3	0.00000
95	PONOKA 7	138.00	99502	PONOKAT2	240.00	T2	>99999.	100	-14.3	-14.3	-14.3	0.00000
97	ECKVILL7	138.00	956	758L JCT	138.00	58	>99999.	85	-14.5	-14.5	-14.5	0.00000
98	RIMBEY 7	138.00	956	758L JCT	138.00	57	>99999.	85	-19.6	-19.6	-19.6	0.00000
99	BENALTO7	138.00	780	SYLV_138	138.00	1	>99999.	252	25.1	25.2	26.2	0.00119
99	BENALTO7	138.00	956	758L JCT	138.00	57	>99999.	85	34.5	34.5	34.5	0.00000
113	BLACKFA7	138.00	116	W LACOMB	138.00	80	>99999.	112	-6.1	-6.1	-6.6	-0.00054
113	BLACKFA7	138.00	119	N RED D7	138.00	80	>99999.	122	-18.0	-18.0	-17.5	0.00054
114	LACOMBE7	138.00	116	W LACOMB	138.00	80	>99999.	75	6.1	6.2	6.6	0.00054
114	LACOMBE7	138.00	388	ELLIS 7	138.00	1	>99999.	252	-10.8	-10.8	-11.3	-0.00054
118	RED DE B	138.00	780	SYLV_138	138.00	1	>99999.	252	-6.4	-6.5	-7.5	-0.00118
122	MADDEN 7	138.00	982	MADDEN T	138.00	89	>99999.	75	-14.6	-14.6	-14.6	0.00000
124	HARMATT7	138.00	97619	HGF1	138.00	01	>99999.	174	0.6	0.6	0.6	0.00000
126	SHELL H7	138.00	957	166L JNC	138.00	66	>99999.	85	-5.6	-5.6	-5.6	0.00000
142	KINGMAN7	138.00	946	KING TAP	138.00	32	>99999.	86	0.0	0.0	0.0	0.00000
148	GAETZ 7	138.00	383	JOFFRE 7	138.00	56	>99999.	154	-42.3	-42.1	-40.8	0.00160
148	GAETZ 7	138.00	383	JOFFRE 7	138.00	93	>99999.	154	-42.3	-42.1	-40.8	0.00159
148	GAETZ 7	138.00	384	UC PRENT	138.00	59	>99999.	154	12.8	12.9	13.7	0.00098
152	RED DEE4	240.00	93700	RED DEER	LUM25.000	T1	>99999.	240	0.0	0.0	0.0	0.00000
205	AMOCO R7	138.00	257	LIMESTO7	138.00	64	>99999.	121	17.9	17.9	17.9	0.00000
205	AMOCO R7	138.00	890	AMOCO TP	138.00	19	>99999.	121	-22.7	-22.7	-22.7	0.00000
354	NOVA C17	138.00	383	JOFFRE 7	138.00	1	>99999.	327	123.5	123.5	123.5	0.00000
355	NOVA C27	138.00	383	JOFFRE 7	138.00	2	>99999.	327	232.3	232.3	232.3	0.00000
382	SHELL RA	138.00	881	RAVEN TP	138.00	19	>99999.	121	-4.2	-4.2	-4.2	0.00000
383	JOFFRE 7	138.00	384	UC PRENT	138.00	75	>99999.	154	66.4	66.4	66.2	-0.00024
383	JOFFRE 7	138.00	398	BROOKFLD	138.00	89	>99999.	125	5.5	5.5	5.5	0.00000
383	JOFFRE 7	138.00	975	COMINTAP	138.00	84	>99999.	154	74.4	74.4	74.2	-0.00020
384	UC PRENT	138.00	388	ELLIS 7	138.00	74	>99999.	154	-25.6	-25.5	-24.9	0.00074
385	SHELL SC	138.00	882	SCHRA TP	138.00	48	>99999.	121	-14.0	-14.0	-14.0	0.00000
386	SHELL EA	138.00	883	EAGLE TP	138.00	19	>99999.	121	-10.6	-10.6	-10.6	0.00000
387	COMINCO7	138.00	975	COMINTAP	138.00	84	>99999.	101	-6.8	-6.8	-6.8	0.00000
388	ELLIS 7	138.00	975	COMINTAP	138.00	84	>99999.	154	-67.1	-67.1	-66.9	0.00020
440	TRUE WEL	138.00	899	TRUE W T	138.00	29	>99999.	98	0.0	0.0	0.0	0.00000
99500	PONOKA_NEW	240.00	99501	PONOKAT1	240.00	T1	>99999.	100	14.3	14.3	14.3	0.00000
99500	PONOKA_NEW	240.00	99502	PONOKAT2	240.00	T2	>99999.	100	14.3	14.3	14.3	0.00000

SOLUTION OF 98 SYSTEM CONDITIONS ATTEMPTED 0 INSOLUBLE SYSTEM CONDITIONS

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   INCR.                                                                                  PRE- RATING
   TRANS <----------------- LIMITING ELEMENT ----------------->   DISTR.   SHIFT BAS/CNT
   CAPAB <------- F R O M -------> <--------- T O --------->CKT   FACTOR     MW    A/A  <------------------
CONTINGENCY DESCRIPTION ------------------->
   340.8    123 DIDSBURY    138.00    982 MADDEN T    138.00 80  0.06592    99.5  122.0
-------------------------------------------------------------------
                                                                                        OPEN 9000
[DIDSBURY_NEW240.00] TO 187 [BEDDING1    240.00] CKT 18
   477.8    107 SUNDRE 7    138.00    370 SHELL C7    138.00 19 -0.05779   -92.4  120.0
-------------------------------------------------------------------
                                                                                        OPEN 155 [BENALTO4
240.00] TO 9000 [DIDSBURY_NEW240.00] CKT 18
   679.9    155 BENALTO4    240.00   9000 DIDSBURY_NEW240.00 18  0.23651   256.2  417.0 OPEN 155 [BENALTO4
240.00] TO 161 [SARCEE 4    240.00] CKT 06
   680.4    155 BENALTO4    240.00   9000 DIDSBURY_NEW240.00 18  0.23650   256.1  417.0 OPEN 155 [BENALTO4
240.00] TO 161 [SARCEE 4    240.00] CKT 28
   683.7    155 BENALTO4    240.00   9000 DIDSBURY_NEW240.00 18  0.23823   254.1  417.0
-------------------------------------------------------------------
                                                                                        OPEN 152 [RED DEE4
240.00] TO 99700 [INNISFAIL_NE240.00] CKT 29
   713.6    124 HARMATT7    138.00    957 166L JNC    138.00 66  0.05779    36.8   78.0
-------------------------------------------------------------------
                                                                                        OPEN 155 [BENALTO4
240.00] TO 9000 [DIDSBURY_NEW240.00] CKT 18
   726.8    155 BENALTO4    240.00   9000 DIDSBURY_NEW240.00 18  0.22666   252.3  417.0 OPEN 152 [RED DEE4
240.00] TO 155 [BENALTO4    240.00] CKT 00
   770.1    155 BENALTO4    240.00   9000 DIDSBURY_NEW240.00 18  0.23109   239.0  417.0 OPEN 152 [RED DEE4
240.00] TO 988 [CROSSF T    240.00] CKT 01
   773.5    155 BENALTO4    240.00   9000 DIDSBURY_NEW240.00 18  0.22342   244.2  417.0 OPEN 107 [SUNDRE 7
138.00] TO 370 [SHELL C7    138.00] CKT 19
   804.4    155 BENALTO4    240.00   9000 DIDSBURY_NEW240.00 18  0.22610   235.1  417.0 OPEN 152 [RED DEE4
240.00] TO 160 [JANET  4    240.00] CKT 25
   815.4    155 BENALTO4    240.00   9000 DIDSBURY_NEW240.00 18  0.21837   238.9  417.0
-------------------------------------------------------------------
                                                                                        OPEN 99700
[INNISFAIL_NE240.00] TO 120 [INNISFA7    138.00] CKT T1
   823.3    155 BENALTO4    240.00   9000 DIDSBURY_NEW240.00 18  0.22342   233.1  417.0 OPEN 107 [SUNDRE 7
138.00] TO 883 [EAGLE TP    138.00] CKT 19
   842.7*   155 BENALTO4    240.00   9000 DIDSBURY_NEW240.00 18  0.22342   228.7  417.0 OPEN 124 [HARMATT7
138.00] TO 883 [EAGLE TP    138.00] CKT 19
   863.0    123 DIDSBURY    138.00    957 166L JNC    138.00 66 -0.05779   -31.1   81.0
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OPEN 155 [BENALTO4
240.00] TO 9000 [DIDSBURY_NEW240.00] CKT 18
897.0 155 BENALTO4 240.00 135 SUNDANC4 240.00 26 -0.20074 -285.9 466.0 OPEN 155 [BENALTO4
240.00] TO 135 [SUNDANC4 240.00] CKT 22
897.0 135 SUNDANC4 240.00 155 BENALTO4 240.00 26 0.20074 285.9 466.0 OPEN 155 [BENALTO4
240.00] TO 135 [SUNDANC4 240.00] CKT 22
900.3 155 BENALTO4 240.00 135 SUNDANC4 240.00 22 -0.20049 -285.5 466.0 OPEN 155 [BENALTO4
240.00] TO 135 [SUNDANC4 240.00] CKT 26
900.3 135 SUNDANC4 240.00 155 BENALTO4 240.00 22 0.20049 285.5 466.0 OPEN 155 [BENALTO4
240.00] TO 135 [SUNDANC4 240.00] CKT 26
917.1 123 DIDSBURY 138.00 982 MADDEN T 138.00 80 0.03719 87.9 122.0 OPEN 155 [BENALTO4
240.00] TO 161 [SARCEE 4 240.00] CKT 06
918.1 123 DIDSBURY 138.00 982 MADDEN T 138.00 80 0.03719 87.9 122.0 OPEN 155 [BENALTO4
240.00] TO 161 [SARCEE 4 240.00] CKT 28
929.4 9000 DIDSBURY_NEW240.00 187 BEDDING1 240.00 18 0.25625 178.8 417.0 OPEN 155 [BENALTO4
240.00] TO 161 [SARCEE 4 240.00] CKT 06
929.8 9000 DIDSBURY_NEW240.00 187 BEDDING1 240.00 18 0.25625 178.7 417.0 OPEN 155 [BENALTO4
240.00] TO 161 [SARCEE 4 240.00] CKT 28
963.6 107 SUNDRE 7 138.00 883 EAGLE TP 138.00 19 0.05779 64.3 120.0

OPEN 155 [BENALTO4
240.00] TO 9000 [DIDSBURY_NEW240.00] CKT 18
972.2 9000 DIDSBURY_NEW240.00 187 BEDDING1 240.00 18 0.25596 168.2 417.0 OPEN 152 [RED DEE4
240.00] TO 988 [CROSSF T 240.00] CKT 01
996.0 123 DIDSBURY 138.00 982 MADDEN T 138.00 80 0.03743 84.7 122.0

OPEN 99700
[INNISFAIL_NE240.00] TO 160 [JANET 4 240.00] CKT 29
997.3 9000 DIDSBURY_NEW240.00 187 BEDDING1 240.00 18 0.24450 173.2 417.0 OPEN 123 [DIDSBURY
138.00] TO 982 [MADDEN T 138.00] CKT 80
1004.5 9000 DIDSBURY_NEW240.00 187 BEDDING1 240.00 18 0.25202 163.8 417.0

OPEN 99700
[INNISFAIL_NE240.00] TO 160 [JANET 4 240.00] CKT 29
1013.7 9000 DIDSBURY_NEW240.00 187 BEDDING1 240.00 18 0.25010 163.5 417.0 OPEN 152 [RED DEE4
240.00] TO 160 [JANET 4 240.00] CKT 25
1023.1 9000 DIDSBURY_NEW240.00 187 BEDDING1 240.00 18 0.24387 167.5 417.0 OPEN 152 [RED DEE4
240.00] TO 155 [BENALTO4 240.00] CKT 00
1045.0 107 SUNDRE 7 138.00 370 SHELL C7 138.00 19 -0.04070 -77.5 120.0

OPEN 152 [RED DEE4
240.00] TO 99700 [INNISFAIL_NE240.00] CKT 29
1073.6 9000 DIDSBURY_NEW240.00 187 BEDDING1 240.00 18 0.22340 177.2 417.0

OPEN 9000

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[DIDSBURY_NEW240.00] TO 123 [DIDSBURY    138.00] CKT T1
  1079.6    123 DIDSBURY    138.00    982 MADDEN T    138.00 80  0.03589    83.2  122.0 OPEN 152 [RED DEE4
240.00] TO 988 [CROSSF T    240.00] CKT 01
  1110.4   9000 DIDSBURY_NEW240.00    187 BEDDING1    240.00 18  0.23872   151.9  417.0
------------------------------------------------------------------
                                                                                    OPEN 152 [RED DEE4
240.00] TO 99700 [INNISFAIL_NE240.00] CKT 29
  1112.1    120 INNISFA7    138.00    121 OLDS   7    138.00 80  0.05194    64.2  122.0
------------------------------------------------------------------
                                                                                     OPEN 155 [BENALTO4
240.00] TO 9000 [DIDSBURY_NEW240.00] CKT 18
  1123.0*  9000 DIDSBURY_NEW240.00    187 BEDDING1    240.00 18  0.23858   149.1  417.0
------------------------------------------------------------------
                                                                                    OPEN 152 [RED DEE4
240.00] TO 99500 [PONOKA_NEW  240.00] CKT 10
  1140.4    123 DIDSBURY    138.00    982 MADDEN T    138.00 80  0.03471    82.4  122.0 OPEN 152 [RED DEE4
240.00] TO 160 [JANET  4    240.00] CKT 25
  1153.1    124 HARMATT7    138.00    883 EAGLE TP    138.00 19 -0.05779   -53.4  120.0
------------------------------------------------------------------
                                                                                     OPEN 155 [BENALTO4
240.00] TO 9000 [DIDSBURY_NEW240.00] CKT 18
  1159.9    104 STRACHA7    138.00    890 AMOCO TP    138.00 19  0.01789    99.3  120.0 OPEN 99 [BENALTO7
138.00] TO 882 [SCHRA TP    138.00] CKT 48
  1273.7    152 RED DEE4    240.00    988 CROSSF T    240.00 01  0.17394   186.5  408.0
------------------------------------------------------------------
                                                                                    OPEN 152 [RED DEE4
240.00] TO 99700 [INNISFAIL_NE240.00] CKT 29
  1276.0    107 SUNDRE 7    138.00    370 SHELL C7    138.00 19 -0.03471   -75.7  120.0
------------------------------------------------------------------
                                                                                    OPEN 99700
[INNISFAIL_NE240.00] TO 120 [INNISFA7    138.00] CKT T1
  1290.8    128 ELLERSLI    240.00     81 BIGSTON4    240.00 14  0.18662   240.1  481.0
------------------------------------------------------------------
                                                                                    OPEN 152 [RED DEE4
240.00] TO 99500 [PONOKA_NEW  240.00] CKT 10
  1300.5    152 RED DEE4    240.00    988 CROSSF T    240.00 01  0.18160   171.8  408.0
------------------------------------------------------------------
                                                                                     OPEN 9000
[DIDSBURY_NEW240.00] TO 187 [BEDDING1    240.00] CKT 18
  1307.5    135 SUNDANC4    240.00    155 BENALTO4    240.00 26  0.17779   233.5  466.0 OPEN 147 [GAETZ  4
240.00] TO 81 [BIGSTON4    240.00] CKT 14
  1307.5    155 BENALTO4    240.00    135 SUNDANC4    240.00 26 -0.17779  -233.5  466.0 OPEN 147 [GAETZ  4
240.00] TO 81 [BIGSTON4    240.00] CKT 14
  1310.5    135 SUNDANC4    240.00    155 BENALTO4    240.00 26  0.17560   235.9  466.0
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                                                                                                                OPEN 152 [RED DEE4
240.00] TO 99500 [PONOKA_NEW  240.00] CKT 10
  1310.5    155 BENALTO4    240.00    135 SUNDANC4    240.00 26 -0.17560  -235.9  466.0
------------------------------------------------------------------                                              OPEN 152 [RED DEE4
240.00] TO 99500 [PONOKA_NEW  240.00] CKT 10
  1312.9    155 BENALTO4    240.00    135 SUNDANC4    240.00 22 -0.17748  -233.0  466.0 OPEN 147 [GAETZ  4
240.00] TO 81 [BIGSTON4    240.00] CKT 14
  1312.9    135 SUNDANC4    240.00    155 BENALTO4    240.00 22  0.17748   233.0  466.0 OPEN 147 [GAETZ  4
240.00] TO 81 [BIGSTON4    240.00] CKT 14
  1315.9    155 BENALTO4    240.00    135 SUNDANC4    240.00 22 -0.17529  -235.3  466.0
------------------------------------------------------------------                                              OPEN 152 [RED DEE4
240.00] TO 99500 [PONOKA_NEW  240.00] CKT 10
  1315.9    135 SUNDANC4    240.00    155 BENALTO4    240.00 22  0.17529   235.3  466.0
------------------------------------------------------------------                                              OPEN 152 [RED DEE4
240.00] TO 99500 [PONOKA_NEW  240.00] CKT 10
  1317.9    155 BENALTO4    240.00    161 SARCEE 4    240.00 06  0.16022   237.8  449.0 OPEN 155 [BENALTO4
240.00] TO 161 [SARCEE 4    240.00] CKT 28
  1318.1    152 RED DEE4    240.00    988 CROSSF T    240.00 01  0.17314   179.8  408.0 OPEN 152 [RED DEE4
240.00] TO 160 [JANET  4    240.00] CKT 25
  1320.9    155 BENALTO4    240.00    135 SUNDANC4    240.00 26 -0.16182  -252.3  466.0 OPEN 155 [BENALTO4
240.00] TO 995 [W.GRN TP    240.00] CKT 95
  1320.9    135 SUNDANC4    240.00    155 BENALTO4    240.00 26  0.16182   252.3  466.0 OPEN 155 [BENALTO4
240.00] TO 995 [W.GRN TP    240.00] CKT 95
  1320.9    155 BENALTO4    240.00    161 SARCEE 4    240.00 28  0.16021   237.4  449.0 OPEN 155 [BENALTO4
240.00] TO 161 [SARCEE 4    240.00] CKT 06
  1326.7    155 BENALTO4    240.00    135 SUNDANC4    240.00 22 -0.16154  -251.7  466.0 OPEN 155 [BENALTO4
240.00] TO 995 [W.GRN TP    240.00] CKT 95
  1326.7    135 SUNDANC4    240.00    155 BENALTO4    240.00 22  0.16154   251.7  466.0 OPEN 155 [BENALTO4
240.00] TO 995 [W.GRN TP    240.00] CKT 95
  1328.7    155 BENALTO4    240.00    135 SUNDANC4    240.00 26 -0.16983  -240.3  466.0 OPEN 155 [BENALTO4
240.00] TO 420 [KEEPHIL4    240.00] CKT 90
  1328.7    135 SUNDANC4    240.00    155 BENALTO4    240.00 26  0.16983   240.3  466.0 OPEN 155 [BENALTO4
240.00] TO 420 [KEEPHIL4    240.00] CKT 90
  1331.0    152 RED DEE4    240.00    988 CROSSF T    240.00 01  0.17302   177.7  408.0
------------------------------------------------------------------                                               OPEN 155 [BENALTO4
240.00] TO 9000 [DIDSBURY_NEW240.00] CKT 18
  1331.6    135 SUNDANC4    240.00    155 BENALTO4    240.00 26  0.16965   240.1  466.0 OPEN 155 [BENALTO4
240.00] TO 420 [KEEPHIL4    240.00] CKT 03
  1331.6    155 BENALTO4    240.00    135 SUNDANC4    240.00 26 -0.16965  -240.1  466.0 OPEN 155 [BENALTO4
240.00] TO 420 [KEEPHIL4    240.00] CKT 03
  1334.3    155 BENALTO4    240.00    135 SUNDANC4    240.00 22 -0.16954  -239.8  466.0 OPEN 155 [BENALTO4
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240.00] TO 420 [KEEPHIL4    240.00] CKT 90
  1334.3    135 SUNDANC4    240.00    155 BENALTO4    240.00 22  0.16954   239.8  466.0 OPEN 155 [BENALTO4
240.00] TO 420 [KEEPHIL4    240.00] CKT 90
  1337.2    135 SUNDANC4    240.00    155 BENALTO4    240.00 22  0.16935   239.5  466.0 OPEN 155 [BENALTO4
240.00] TO 420 [KEEPHIL4    240.00] CKT 03
  1337.2    155 BENALTO4    240.00    135 SUNDANC4    240.00 22 -0.16935  -239.5  466.0 OPEN 155 [BENALTO4
240.00] TO 420 [KEEPHIL4    240.00] CKT 03
  1365.4    123 DIDSBURY    138.00    982 MADDEN T    138.00 80  0.03107    79.6  122.0 OPEN 152 [RED DEE4
240.00] TO 155 [BENALTO4    240.00] CKT 00
  1365.8    155 BENALTO4    240.00    161 SARCEE 4    240.00 06  0.16316   226.2  449.0
------------------------------------------------------------------                OPEN 155 [BENALTO4
240.00] TO 9000 [DIDSBURY_NEW240.00] CKT 18
  1369.8    155 BENALTO4    240.00    161 SARCEE 4    240.00 28  0.16315   225.5  449.0
------------------------------------------------------------------                OPEN 155 [BENALTO4
240.00] TO 9000 [DIDSBURY_NEW240.00] CKT 18
  1378.8    152 RED DEE4    240.00    988 CROSSF T    240.00 01  0.16984   173.8  408.0
------------------------------------------------------------------                OPEN 99700
[INNISFAIL_NE240.00] TO 160 [JANET  4    240.00] CKT 29
  1379.9    124 HARMATT7    138.00    957 166L JNC    138.00 66  0.04070    21.8   78.0
------------------------------------------------------------------                OPEN 152 [RED DEE4
240.00] TO 99700 [INNISFAIL_NE240.00] CKT 29
  1382.7    128 ELLERSLI    240.00  99500 PONOKA_NEW  240.00 10  0.20637   180.6  466.0 OPEN 147 [GAETZ  4
240.00] TO 81 [BIGSTON4    240.00] CKT 14
  1403.0    152 RED DEE4    240.00  99700 INNISFAIL_NE240.00 29  0.18182   225.9  481.0
------------------------------------------------------------------                OPEN 155 [BENALTO4
240.00] TO 9000 [DIDSBURY_NEW240.00] CKT 18
  1406.1    123 DIDSBURY    138.00    982 MADDEN T    138.00 80  0.02998    79.8  122.0 OPEN 205 [AMOCO R7
138.00] TO 890 [AMOCO TP    138.00] CKT 19
  1408.6    152 RED DEE4    240.00    988 CROSSF T    240.00 01  0.16416   176.8  408.0 OPEN 155 [BENALTO4
240.00] TO 161 [SARCEE 4    240.00] CKT 06
  1409.2    152 RED DEE4    240.00    988 CROSSF T    240.00 01  0.16416   176.7  408.0 OPEN 155 [BENALTO4
240.00] TO 161 [SARCEE 4    240.00] CKT 28
  1415.1    107 SUNDRE 7    138.00    370 SHELL C7    138.00 19 -0.03491   -70.6  120.0 OPEN 155 [BENALTO4
240.00] TO 161 [SARCEE 4    240.00] CKT 06
  1415.7    107 SUNDRE 7    138.00    370 SHELL C7    138.00 19 -0.03491   -70.6  120.0 OPEN 155 [BENALTO4
240.00] TO 161 [SARCEE 4    240.00] CKT 28
  1424.9    123 DIDSBURY    138.00    982 MADDEN T    138.00 80  0.02998    79.3  122.0 OPEN 205 [AMOCO R7
138.00] TO 257 [LIMESTO7    138.00] CKT 64
  1428.8    107 SUNDRE 7    138.00    370 SHELL C7    138.00 19 -0.03471   -70.4  120.0 OPEN 120 [INNISFA7
138.00] TO 121 [OLDS   7    138.00] CKT 80
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  1428.9*   123 DIDSBURY    138.00    982 MADDEN T    138.00 80  0.02998    79.2  122.0 OPEN 99 [BENALTO7
138.00] TO 956 [758L JCT    138.00] CKT 57
  1435.5    155 BENALTO4    240.00    161 SARCEE 4    240.00 06  0.16487   212.3  449.0
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                                                                                        OPEN 9000
[DIDSBURY_NEW240.00] TO 187 [BEDDING1    240.00] CKT 18
  1439.5    155 BENALTO4    240.00    161 SARCEE 4    240.00 28  0.16485   211.7  449.0
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                                                                                        OPEN 9000
[DIDSBURY_NEW240.00] TO 187 [BEDDING1    240.00] CKT 18
  1480.0    104 STRACHA7    138.00    890 AMOCO TP    138.00 19  0.01789    93.5  120.0 OPEN 370 [SHELL C7
138.00] TO 882 [SCHRA TP    138.00] CKT 48
  1499.1    107 SUNDRE 7    138.00    370 SHELL C7    138.00 19 -0.02471   -83.0  120.0
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                                                                                        OPEN 9000
[DIDSBURY_NEW240.00] TO 123 [DIDSBURY    138.00] CKT T1
  1504.2    135 SUNDANC4    240.00    155 BENALTO4    240.00 26  0.16174   222.7  466.0 OPEN 147 [GAETZ  4
240.00] TO 152 [RED DEE4    240.00] CKT 14
  1504.2    155 BENALTO4    240.00    135 SUNDANC4    240.00 26 -0.16174  -222.7  466.0 OPEN 147 [GAETZ  4
240.00] TO 152 [RED DEE4    240.00] CKT 14
  1510.1    135 SUNDANC4    240.00    155 BENALTO4    240.00 22  0.16146   222.2  466.0 OPEN 147 [GAETZ  4
240.00] TO 152 [RED DEE4    240.00] CKT 14
  1510.1    155 BENALTO4    240.00    135 SUNDANC4    240.00 22 -0.16146  -222.2  466.0 OPEN 147 [GAETZ  4
240.00] TO 152 [RED DEE4    240.00] CKT 14
  1516.1    107 SUNDRE 7    138.00    370 SHELL C7    138.00 19 -0.03429   -68.0  120.0 OPEN 152 [RED DEE4
240.00] TO 988 [CROSSF T    240.00] CKT 01
  1522.2    107 SUNDRE 7    138.00    370 SHELL C7    138.00 19 -0.03071   -73.3  120.0 OPEN 205 [AMOCO R7
138.00] TO 890 [AMOCO TP    138.00] CKT 19
  1528.0    152 RED DEE4    240.00  99500 PONOKA_NEW  240.00 10 -0.20637  -150.7  466.0 OPEN 147 [GAETZ  4
240.00] TO 81 [BIGSTON4    240.00] CKT 14
  1529.4    128 ELLERSLI    240.00     81 BIGSTON4    240.00 14  0.16172   233.7  481.0 OPEN 155 [BENALTO4
240.00] TO 135 [SUNDANC4    240.00] CKT 26
  1530.3    128 ELLERSLI    240.00     81 BIGSTON4    240.00 14  0.16167   233.6  481.0 OPEN 155 [BENALTO4
240.00] TO 135 [SUNDANC4    240.00] CKT 22
  1561.8    155 BENALTO4    240.00    135 SUNDANC4    240.00 26 -0.15612  -222.2  466.0
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                                                                                    OPEN 152 [RED DEE4
240.00] TO 99700 [INNISFAIL_NE240.00] CKT 29
  1561.8    135 SUNDANC4    240.00    155 BENALTO4    240.00 26  0.15612   222.2  466.0
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                                                                                    OPEN 152 [RED DEE4
240.00] TO 99700 [INNISFAIL_NE240.00] CKT 29
  1563.1    152 RED DEE4    240.00  99700 INNISFAIL_NE240.00 29  0.17075   214.1  481.0 OPEN 152 [RED DEE4
240.00] TO 988 [CROSSF T    240.00] CKT 01
  1567.9    135 SUNDANC4    240.00    155 BENALTO4    240.00 22  0.15585   221.6  466.0
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                                                                  OPEN 152 [RED DEE4
240.00] TO 99700 [INNISFAIL_NE240.00] CKT 29
  1567.9    155 BENALTO4    240.00    135 SUNDANC4    240.00 22 -0.15585  -221.6  466.0
------------------------------------------------------------------
                                                                  OPEN 152 [RED DEE4
240.00] TO 99700 [INNISFAIL_NE240.00] CKT 29
  1569.5    155 BENALTO4    240.00    135 SUNDANC4    240.00 26 -0.15592  -221.3  466.0 OPEN 152 [RED DEE4
240.00] TO 988 [CROSSF T    240.00] CKT 01
  1569.5    135 SUNDANC4    240.00    155 BENALTO4    240.00 26  0.15592   221.3  466.0 OPEN 152 [RED DEE4
240.00] TO 988 [CROSSF T    240.00] CKT 01
  1571.3*   107 SUNDRE 7    138.00    370 SHELL C7    138.00 19 -0.03347   -67.4  120.0 OPEN 152 [RED DEE4
240.00] TO 160 [JANET  4    240.00] CKT 25
  1575.6    155 BENALTO4    240.00    135 SUNDANC4    240.00 22 -0.15565  -220.8  466.0 OPEN 152 [RED DEE4
240.00] TO 988 [CROSSF T    240.00] CKT 01
  1575.6    135 SUNDANC4    240.00    155 BENALTO4    240.00 22  0.15565   220.8  466.0 OPEN 152 [RED DEE4
240.00] TO 988 [CROSSF T    240.00] CKT 01
  1576.3*   135 SUNDANC4    240.00    155 BENALTO4    240.00 26  0.15546   220.9  466.0 OPEN 152 [RED DEE4
240.00] TO 160 [JANET  4    240.00] CKT 25
  1576.3*   155 BENALTO4    240.00    135 SUNDANC4    240.00 26 -0.15546  -220.9  466.0 OPEN 152 [RED DEE4
240.00] TO 160 [JANET  4    240.00] CKT 25
  1579.2    123 DIDSBURY    138.00   9000 DIDSBURY_NEW240.00 T1 -0.05292  -116.4  200.0
------------------------------------------------------------------
                                                                   OPEN 9000
[DIDSBURY_NEW240.00] TO 187 [BEDDING1    240.00] CKT 18
  1582.4*   135 SUNDANC4    240.00    155 BENALTO4    240.00 22  0.15519   220.4  466.0 OPEN 152 [RED DEE4
240.00] TO 160 [JANET  4    240.00] CKT 25
  1582.4*   155 BENALTO4    240.00    135 SUNDANC4    240.00 22 -0.15519  -220.4  466.0 OPEN 152 [RED DEE4
240.00] TO 160 [JANET  4    240.00] CKT 25
  1582.5    128 ELLERSLI    240.00  99500 PONOKA_NEW  240.00 10  0.17926   182.3  466.0 OPEN 155 [BENALTO4
240.00] TO 135 [SUNDANC4    240.00] CKT 26
  1583.4    128 ELLERSLI    240.00  99500 PONOKA_NEW  240.00 10  0.17921   182.2  466.0 OPEN 155 [BENALTO4
240.00] TO 135 [SUNDANC4    240.00] CKT 22
  1587.1    128 ELLERSLI    240.00     81 BIGSTON4    240.00 14  0.15918   228.4  481.0 OPEN 155 [BENALTO4
240.00] TO 420 [KEEPHIL4    240.00] CKT 90
  1587.9     20 EDSON  7    138.00     39 CYNTHIA7    138.00 02  0.03613    27.6   85.0 OPEN 155 [BENALTO4
240.00] TO 135 [SUNDANC4    240.00] CKT 26
  1589.8     20 EDSON  7    138.00     39 CYNTHIA7    138.00 02  0.03611    27.6   85.0 OPEN 155 [BENALTO4
240.00] TO 135 [SUNDANC4    240.00] CKT 22
  1590.7    128 ELLERSLI    240.00     81 BIGSTON4    240.00 14  0.15899   228.1  481.0 OPEN 155 [BENALTO4
240.00] TO 420 [KEEPHIL4    240.00] CKT 03
  1591.9    123 DIDSBURY    138.00    957 166L JNC    138.00 66 -0.04070   -16.2   81.0
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                                                                  OPEN 152 [RED DEE4
240.00] TO 99700 [INNISFAIL_NE240.00] CKT 29
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  1599.0     25 ENTWIST8    69.000     28 MOON LA8    69.000 29  0.00902    14.6   29.0 OPEN 155 [BENALTO4
240.00] TO 135 [SUNDANC4    240.00] CKT 26
  1600.7     25 ENTWIST8    69.000     28 MOON LA8    69.000 29  0.00902    14.6   29.0 OPEN 155 [BENALTO4
240.00] TO 135 [SUNDANC4    240.00] CKT 22
  1603.3    128 ELLERSLI    240.00     81 BIGSTON4    240.00 14  0.15467   233.0  481.0 OPEN 152 [RED DEE4
240.00] TO 155 [BENALTO4    240.00] CKT 00
  1614.2    104 STRACHA7    138.00    890 AMOCO TP    138.00 19  0.01825    90.5  120.0
------------------------------------------------------------------                                  OPEN 155 [BENALTO4
240.00] TO 9000 [DIDSBURY_NEW240.00] CKT 18
  1627.3    155 BENALTO4    240.00    420 KEEPHIL4    240.00 90 -0.15789  -209.1  466.0 OPEN 155 [BENALTO4
240.00] TO 420 [KEEPHIL4    240.00] CKT 03
  1627.3    420 KEEPHIL4    240.00    155 BENALTO4    240.00 90  0.15789   209.1  466.0 OPEN 155 [BENALTO4
240.00] TO 420 [KEEPHIL4    240.00] CKT 03
  1644.6    155 BENALTO4    240.00    420 KEEPHIL4    240.00 03 -0.15697  -207.8  466.0 OPEN 155 [BENALTO4
240.00] TO 420 [KEEPHIL4    240.00] CKT 90
  1644.6    420 KEEPHIL4    240.00    155 BENALTO4    240.00 03  0.15697   207.8  466.0 OPEN 155 [BENALTO4
240.00] TO 420 [KEEPHIL4    240.00] CKT 90
  1645.7    155 BENALTO4    240.00    161 SARCEE 4    240.00 06  0.14619   208.4  449.0 OPEN 152 [RED DEE4
240.00] TO 988 [CROSSF T    240.00] CKT 01
  1649.0    152 RED DEE4    240.00  99700 INNISFAIL_NE240.00 29  0.16439   209.9  481.0 OPEN 152 [RED DEE4
240.00] TO 160 [JANET  4    240.00] CKT 25
  1649.0    128 ELLERSLI    240.00  99500 PONOKA_NEW  240.00 10  0.17183   182.7  466.0 OPEN 152 [RED DEE4
240.00] TO 155 [BENALTO4    240.00] CKT 00
  1650.2    155 BENALTO4    240.00    161 SARCEE 4    240.00 28  0.14618   207.8  449.0 OPEN 152 [RED DEE4
240.00] TO 988 [CROSSF T    240.00] CKT 01
  1652.2     81 BIGSTON4    240.00    147 GAETZ  4    240.00 14  0.21770   139.3  499.0
------------------------------------------------------------------                                  OPEN 152 [RED DEE4
240.00] TO 99500 [PONOKA_NEW  240.00] CKT 10
  1658.2    121 OLDS   7    138.00    123 DIDSBURY    138.00 80  0.05194    35.9  122.0
------------------------------------------------------------------                                  OPEN 155 [BENALTO4
240.00] TO 9000 [DIDSBURY_NEW240.00] CKT 18
  1668.7    124 HARMATT7    138.00    957 166L JNC    138.00 66  0.03471    20.1   78.0
------------------------------------------------------------------                                  OPEN 99700
[INNISFAIL_NE240.00] TO 120 [INNISFA7    138.00] CKT T1
  1669.2    128 ELLERSLI    240.00  99500 PONOKA_NEW  240.00 10  0.17480   174.2  466.0 OPEN 155 [BENALTO4
240.00] TO 420 [KEEPHIL4    240.00] CKT 90
  1672.6    128 ELLERSLI    240.00  99500 PONOKA_NEW  240.00 10  0.17460   174.0  466.0 OPEN 155 [BENALTO4
240.00] TO 420 [KEEPHIL4    240.00] CKT 03
  1678.4    155 BENALTO4    240.00    161 SARCEE 4    240.00 06  0.13926   215.3  449.0 OPEN 152 [RED DEE4
240.00] TO 155 [BENALTO4    240.00] CKT 00
  1683.1    155 BENALTO4    240.00    161 SARCEE 4    240.00 28  0.13925   214.6  449.0 OPEN 152 [RED DEE4
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240.00] TO 155 [BENALTO4    240.00] CKT 00
  1687.5    152 RED DEE4    240.00    988 CROSSF T    240.00 01  0.14876   157.0  408.0 OPEN 123 [DIDSBURY
138.00] TO 982 [MADDEN T    138.00] CKT 80
  1700.2    155 BENALTO4    240.00    161 SARCEE 4    240.00 06  0.14173   208.0  449.0
-------------------------------------------------------------                          OPEN 152 [RED DEE4
240.00] TO 99700 [INNISFAIL_NE240.00] CKT 29
  1702.1    155 BENALTO4    240.00    161 SARCEE 4    240.00 06  0.14271   206.1  449.0 OPEN 152 [RED DEE4
240.00] TO 160 [JANET  4    240.00] CKT 25
  1704.7    155 BENALTO4    240.00    161 SARCEE 4    240.00 28  0.14172   207.4  449.0
-------------------------------------------------------------                          OPEN 152 [RED DEE4
240.00] TO 99700 [INNISFAIL_NE240.00] CKT 29
  1706.7    155 BENALTO4    240.00    161 SARCEE 4    240.00 28  0.14270   205.5  449.0 OPEN 152 [RED DEE4
240.00] TO 160 [JANET  4    240.00] CKT 25
  1713.4    152 RED DEE4    240.00    988 CROSSF T    240.00 01  0.14810   154.2  408.0 OPEN 107 [SUNDRE 7
138.00] TO 370 [SHELL C7    138.00] CKT 19
  1715.7*   152 RED DEE4    240.00    988 CROSSF T    240.00 01  0.14846   153.3  408.0 OPEN 155 [BENALTO4
240.00] TO 135 [SUNDANC4    240.00] CKT 26
  1722.2    152 RED DEE4    240.00    155 BENALTO4    240.00 00 -0.17392  -284.5  584.0
-------------------------------------------------------------                           OPEN 155 [BENALTO4
240.00] TO 9000 [DIDSBURY_NEW240.00] CKT 18
  1729.9    128 ELLERSLI    240.00  99500 PONOKA_NEW  240.00 10  0.17689   160.0  466.0 OPEN 147 [GAETZ  4
240.00] TO 152 [RED DEE4    240.00] CKT 14
  1734.7    107 SUNDRE 7    138.00    883 EAGLE TP    138.00 19  0.04070    49.4  120.0
-------------------------------------------------------------                          OPEN 152 [RED DEE4
240.00] TO 99700 [INNISFAIL_NE240.00] CKT 29
  1739.9    155 BENALTO4    240.00    161 SARCEE 4    240.00 06  0.14130   203.2  449.0
-------------------------------------------------------------                          OPEN 99700
[INNISFAIL_NE240.00] TO 160 [JANET  4    240.00] CKT 29
  1744.3    128 ELLERSLI    240.00     81 BIGSTON4    240.00 14  0.14684   224.9  481.0 OPEN 155 [BENALTO4
240.00] TO 995 [W.GRN TP    240.00] CKT 95
  1744.5    155 BENALTO4    240.00    161 SARCEE 4    240.00 28  0.14128   202.5  449.0
-------------------------------------------------------------                          OPEN 99700
[INNISFAIL_NE240.00] TO 160 [JANET  4    240.00] CKT 29
  1749.7    152 RED DEE4    240.00  99500 PONOKA_NEW  240.00 10 -0.17926  -152.3  466.0 OPEN 155 [BENALTO4
240.00] TO 135 [SUNDANC4    240.00] CKT 26
  1750.7    152 RED DEE4    240.00  99500 PONOKA_NEW  240.00 10 -0.17921  -152.3  466.0 OPEN 155 [BENALTO4
240.00] TO 135 [SUNDANC4    240.00] CKT 22
  1773.5    128 ELLERSLI    240.00     81 BIGSTON4    240.00 14  0.15036   214.3  481.0
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240.00] TO 9000 [DIDSBURY_NEW240.00] CKT 18
  1805.5    124 HARMATT7    138.00    957 166L JNC    138.00 66  0.03491    15.0   78.0 OPEN 155 [BENALTO4
240.00] TO 161 [SARCEE 4    240.00] CKT 06
  1806.1    124 HARMATT7    138.00    957 166L JNC    138.00 66  0.03491    14.9   78.0 OPEN 155 [BENALTO4
240.00] TO 161 [SARCEE 4    240.00] CKT 28
  1807.2    128 ELLERSLI    240.00  99500 PONOKA_NEW  240.00 10  0.16249   172.3  466.0 OPEN 155 [BENALTO4
240.00] TO 995 [W.GRN TP    240.00] CKT 95
  1808.1    152 RED DEE4    240.00  99700 INNISFAIL_NE240.00 29  0.15314   204.1  481.0 OPEN 155 [BENALTO4
240.00] TO 161 [SARCEE 4    240.00] CKT 06
  1808.7    152 RED DEE4    240.00  99700 INNISFAIL_NE240.00 29  0.15314   204.0  481.0 OPEN 155 [BENALTO4
240.00] TO 161 [SARCEE 4    240.00] CKT 28
  1821.5    124 HARMATT7    138.00    957 166L JNC    138.00 66  0.03471    14.8   78.0 OPEN 120 [INNISFA7
138.00] TO 121 [OLDS   7    138.00] CKT 80
  1823.5    152 RED DEE4    240.00  99500 PONOKA_NEW  240.00 10 -0.17183  -152.7  466.0 OPEN 152 [RED DEE4
240.00] TO 155 [BENALTO4    240.00] CKT 00
  1831.1    128 ELLERSLI    240.00     81 BIGSTON4    240.00 14  0.14819   209.6  481.0
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                                                                                                                                                OPEN 9000
[DIDSBURY_NEW240.00] TO 187 [BEDDING1    240.00] CKT 18
  1832.2*   128 ELLERSLI    240.00     81 BIGSTON4    240.00 14  0.14660   212.4  481.0 OPEN 155 [BENALTO4
240.00] TO 161 [SARCEE 4    240.00] CKT 06
  1840.6    128 ELLERSLI    240.00  99500 PONOKA_NEW  240.00 10  0.16613   160.2  466.0
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                                                                                                                                                OPEN 155 [BENALTO4
240.00] TO 9000 [DIDSBURY_NEW240.00] CKT 18
  1840.7    152 RED DEE4    240.00  99500 PONOKA_NEW  240.00 10 -0.17480  -144.2  466.0 OPEN 155 [BENALTO4
240.00] TO 420 [KEEPHIL4    240.00] CKT 90
  1844.3    152 RED DEE4    240.00  99500 PONOKA_NEW  240.00 10 -0.17460  -144.0  466.0 OPEN 155 [BENALTO4
240.00] TO 420 [KEEPHIL4    240.00] CKT 03
  1882.9     81 BIGSTON4    240.00    147 GAETZ  4    240.00 14  0.19283   135.9  499.0 OPEN 155 [BENALTO4
240.00] TO 135 [SUNDANC4    240.00] CKT 26
  1883.9     81 BIGSTON4    240.00    147 GAETZ  4    240.00 14  0.19277   135.8  499.0 OPEN 155 [BENALTO4
240.00] TO 135 [SUNDANC4    240.00] CKT 22
  1893.8    120 INNISFA7    138.00    121 OLDS   7    138.00 80  0.03822    49.6  122.0
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                                                                                                                                               OPEN 99700
[INNISFAIL_NE240.00] TO 160 [JANET  4    240.00] CKT 29
  1895.6*   128 ELLERSLI    240.00  99500 PONOKA_NEW  240.00 10  0.16395   155.2  466.0
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                                                                                                                                                OPEN 9000
[DIDSBURY_NEW240.00] TO 187 [BEDDING1    240.00] CKT 18
  1899.4    152 RED DEE4    240.00  99500 PONOKA_NEW  240.00 10 -0.17689  -130.0  466.0 OPEN 147 [GAETZ  4
240.00] TO 152 [RED DEE4    240.00] CKT 14
  1913.6    124 HARMATT7    138.00    957 166L JNC    138.00 66  0.03429    12.4   78.0 OPEN 152 [RED DEE4
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240.00] TO 988 [CROSSF T    240.00] CKT 01
  1917.4    123 DIDSBURY    138.00    957 166L JNC    138.00 66 -0.03471   -14.5   81.0
-------------------------------------------------------------------                    OPEN 99700
[INNISFAIL_NE240.00] TO 120 [INNISFA7    138.00] CKT T1
  1917.9    155 BENALTO4    240.00    161 SARCEE 4    240.00 06  0.13077   198.2  449.0 OPEN 123 [DIDSBURY
138.00] TO 982 [MADDEN T    138.00] CKT 80
  1921.2*   155 BENALTO4    240.00    161 SARCEE 4    240.00 06  0.13304   193.4  449.0
-------------------------------------------------------------------                    OPEN 152 [RED DEE4
240.00] TO 99500 [PONOKA_NEW  240.00] CKT 10
  1922.8    155 BENALTO4    240.00    161 SARCEE 4    240.00 28  0.13075   197.6  449.0 OPEN 123 [DIDSBURY
138.00] TO 982 [MADDEN T    138.00] CKT 80
  1926.1*   155 BENALTO4    240.00    161 SARCEE 4    240.00 28  0.13303   192.8  449.0
-------------------------------------------------------------------                    OPEN 152 [RED DEE4
240.00] TO 99500 [PONOKA_NEW  240.00] CKT 10
  1936.2    123 DIDSBURY    138.00   9000 DIDSBURY_NEW240.00 T1  0.09854     9.2  200.0
-------------------------------------------------------------------                     OPEN 155 [BENALTO4
240.00] TO 9000 [DIDSBURY_NEW240.00] CKT 18
  1938.3    101 COOKING7    138.00     65 BARDO  7    138.00 74  0.01848    49.2   85.0 OPEN 93 [WETASKI7
138.00] TO 899 [TRUE W T    138.00] CKT 29
  1942.7     68 N HOLDE7    138.00     65 BARDO  7    138.00 74 -0.02949   -27.7   85.0 OPEN 147 [GAETZ  4
240.00] TO 81 [BIGSTON4    240.00] CKT 14
  1946.9    101 COOKING7    138.00     65 BARDO  7    138.00 74  0.01848    49.0   85.0 OPEN 94 [ERVICK 7
138.00] TO 899 [TRUE W T    138.00] CKT 29
  1966.1    124 HARMATT7    138.00    957 166L JNC    138.00 66  0.03071    17.6   78.0 OPEN 205 [AMOCO R7
138.00] TO 890 [AMOCO TP    138.00] CKT 19
  1974.1    155 BENALTO4    240.00    420 KEEPHIL4    240.00 90 -0.14064  -188.4  466.0 OPEN 155 [BENALTO4
240.00] TO 135 [SUNDANC4    240.00] CKT 26
  1974.1    420 KEEPHIL4    240.00    155 BENALTO4    240.00 90  0.14064   188.4  466.0 OPEN 155 [BENALTO4
240.00] TO 135 [SUNDANC4    240.00] CKT 26
  1975.4    155 BENALTO4    240.00    420 KEEPHIL4    240.00 90 -0.14059  -188.3  466.0 OPEN 155 [BENALTO4
240.00] TO 135 [SUNDANC4    240.00] CKT 22
  1975.4    420 KEEPHIL4    240.00    155 BENALTO4    240.00 90  0.14059   188.3  466.0 OPEN 155 [BENALTO4
240.00] TO 135 [SUNDANC4    240.00] CKT 22
  1978.5    124 HARMATT7    138.00    957 166L JNC    138.00 66  0.03347    11.8   78.0 OPEN 152 [RED DEE4
240.00] TO 160 [JANET  4    240.00] CKT 25
  1991.6     81 BIGSTON4    240.00    147 GAETZ  4    240.00 14  0.18723   126.1  499.0 OPEN 155 [BENALTO4
240.00] TO 420 [KEEPHIL4    240.00] CKT 90
  1991.7    152 RED DEE4    240.00  99500 PONOKA_NEW  240.00 10 -0.16249  -142.4  466.0 OPEN 155 [BENALTO4
240.00] TO 995 [W.GRN TP    240.00] CKT 95
  1991.9     81 BIGSTON4    240.00    147 GAETZ  4    240.00 14  0.18344   133.6  499.0 OPEN 152 [RED DEE4
240.00] TO 155 [BENALTO4    240.00] CKT 00
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  1995.4     81 BIGSTON4    240.00    147 GAETZ  4    240.00 14  0.18702   125.8  499.0 OPEN 155 [BENALTO4
240.00] TO 420 [KEEPHIL4    240.00] CKT 03
  2001.3    152 RED DEE4    240.00  99700 INNISFAIL_NE240.00 29  0.14331   194.2  481.0 OPEN 107 [SUNDRE 7
138.00] TO 370 [SHELL C7    138.00] CKT 19
  2003.0    420 KEEPHIL4    240.00    155 BENALTO4    240.00 03  0.13943   186.7  466.0 OPEN 155 [BENALTO4
240.00] TO 135 [SUNDANC4    240.00] CKT 26
  2003.0    155 BENALTO4    240.00    420 KEEPHIL4    240.00 03 -0.13943  -186.7  466.0 OPEN 155 [BENALTO4
240.00] TO 135 [SUNDANC4    240.00] CKT 26
  2003.8    124 HARMATT7    138.00    883 EAGLE TP    138.00 19 -0.04070   -38.4  120.0
------------------------------------------------------------------                OPEN 152 [RED DEE4
240.00] TO 99700 [INNISFAIL_NE240.00] CKT 29
  2004.3    155 BENALTO4    240.00    420 KEEPHIL4    240.00 03 -0.13938  -186.6  466.0 OPEN 155 [BENALTO4
240.00] TO 135 [SUNDANC4    240.00] CKT 22
  2004.3    420 KEEPHIL4    240.00    155 BENALTO4    240.00 03  0.13938   186.6  466.0 OPEN 155 [BENALTO4
240.00] TO 135 [SUNDANC4    240.00] CKT 22
  2007.0*   124 HARMATT7    138.00    957 166L JNC    138.00 66  0.03254    12.7   78.0 OPEN 152 [RED DEE4
240.00] TO 155 [BENALTO4    240.00] CKT 00
  2021.1    152 RED DEE4    240.00  99500 PONOKA_NEW  240.00 10 -0.16613  -130.2  466.0
------------------------------------------------------------------                 OPEN 155 [BENALTO4
240.00] TO 9000 [DIDSBURY_NEW240.00] CKT 18
  2023.1    147 GAETZ  4    240.00    152 RED DEE4    240.00 14  0.19552   103.4  499.0
------------------------------------------------------------------                OPEN 152 [RED DEE4
240.00] TO 99500 [PONOKA_NEW  240.00] CKT 10
  2035.2    152 RED DEE4    240.00  99700 INNISFAIL_NE240.00 29  0.14574   184.4  481.0
------------------------------------------------------------------                 OPEN 9000
[DIDSBURY_NEW240.00] TO 187 [BEDDING1    240.00] CKT 18
  2038.2    155 BENALTO4    240.00    420 KEEPHIL4    240.00 90 -0.14240  -175.8  466.0
------------------------------------------------------------------                OPEN 152 [RED DEE4
240.00] TO 99500 [PONOKA_NEW  240.00] CKT 10
  2038.2    420 KEEPHIL4    240.00    155 BENALTO4    240.00 90  0.14240   175.8  466.0
------------------------------------------------------------------                OPEN 152 [RED DEE4
240.00] TO 99500 [PONOKA_NEW  240.00] CKT 10
  2039.5    155 BENALTO4    240.00    420 KEEPHIL4    240.00 90 -0.14379  -172.7  466.0 OPEN 147 [GAETZ  4
240.00] TO 81 [BIGSTON4    240.00] CKT 14
  2039.5    420 KEEPHIL4    240.00    155 BENALTO4    240.00 90  0.14379   172.7  466.0 OPEN 147 [GAETZ  4
240.00] TO 81 [BIGSTON4    240.00] CKT 14
  2050.4    152 RED DEE4    240.00  99700 INNISFAIL_NE240.00 29  0.14331   187.2  481.0 OPEN 107 [SUNDRE 7
138.00] TO 883 [EAGLE TP    138.00] CKT 19
  2052.7    123 DIDSBURY    138.00    957 166L JNC    138.00 66 -0.03491    -9.3   81.0 OPEN 155 [BENALTO4
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240.00] TO 161 [SARCEE 4    240.00] CKT 06
  2053.3    123 DIDSBURY    138.00    957 166L JNC    138.00 66 -0.03491    -9.3   81.0 OPEN 155 [BENALTO4
240.00] TO 161 [SARCEE 4    240.00] CKT 28
  2060.0    120 INNISFA7    138.00  99700 INNISFAIL_NE240.00 T1 -0.05194   -93.0  200.0
------------------------------------------------------------------
                                                                                    OPEN 155 [BENALTO4
240.00] TO 9000 [DIDSBURY_NEW240.00] CKT 18
  2066.7    155 BENALTO4    240.00    420 KEEPHIL4    240.00 03 -0.14117  -174.2  466.0
------------------------------------------------------------------
                                                                                    OPEN 152 [RED DEE4
240.00] TO 99500 [PONOKA_NEW  240.00] CKT 10
  2066.7    420 KEEPHIL4    240.00    155 BENALTO4    240.00 03  0.14117   174.2  466.0
------------------------------------------------------------------
                                                                                    OPEN 152 [RED DEE4
240.00] TO 99500 [PONOKA_NEW  240.00] CKT 10
  2067.8    155 BENALTO4    240.00    420 KEEPHIL4    240.00 03 -0.14255  -171.2  466.0 OPEN 147 [GAETZ  4
240.00] TO 81 [BIGSTON4    240.00] CKT 14
  2067.8    420 KEEPHIL4    240.00    155 BENALTO4    240.00 03  0.14255   171.2  466.0 OPEN 147 [GAETZ  4
240.00] TO 81 [BIGSTON4    240.00] CKT 14
  2069.5    152 RED DEE4    240.00  99700 INNISFAIL_NE240.00 29  0.14331   184.4  481.0 OPEN 124 [HARMATT7
138.00] TO 883 [EAGLE TP    138.00] CKT 19
  2070.1    123 DIDSBURY    138.00    957 166L JNC    138.00 66 -0.03471    -9.2   81.0 OPEN 120 [INNISFA7
138.00] TO 121 [OLDS   7    138.00] CKT 80
  2078.4*   152 RED DEE4    240.00  99500 PONOKA_NEW  240.00 10 -0.16395  -125.2  466.0
------------------------------------------------------------------
                                                                                    OPEN 9000
[DIDSBURY_NEW240.00] TO 187 [BEDDING1    240.00] CKT 18
  2084.9    107 SUNDRE 7    138.00    883 EAGLE TP    138.00 19  0.03471    47.6  120.0
------------------------------------------------------------------
                                                                                    OPEN 99700
[INNISFAIL_NE240.00] TO 120 [INNISFA7    138.00] CKT T1
  2094.5    152 RED DEE4    240.00    155 BENALTO4    240.00 00 -0.15896  -251.1  584.0
------------------------------------------------------------------
                                                                                    OPEN 152 [RED DEE4
240.00] TO 99500 [PONOKA_NEW  240.00] CKT 10
  2098.5*   152 RED DEE4    240.00  99700 INNISFAIL_NE240.00 29  0.14331   180.3  481.0 OPEN 124 [HARMATT7
138.00] TO 957 [166L JNC    138.00] CKT 66
  2099.2    152 RED DEE4    240.00    160 JANET  4    240.00 25  0.15084   164.4  481.0 OPEN 152 [RED DEE4
240.00] TO 988 [CROSSF T    240.00] CKT 01
  2118.7    101 COOKING7    138.00     65 BARDO  7    138.00 74  0.02359    35.0   85.0
------------------------------------------------------------------
                                                                                    OPEN 152 [RED DEE4
240.00] TO 99500 [PONOKA_NEW  240.00] CKT 10
  2144.9     81 BIGSTON4    240.00    147 GAETZ  4    240.00 14  0.17440   124.9  499.0 OPEN 155 [BENALTO4
240.00] TO 995 [W.GRN TP    240.00] CKT 95
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  2147.8    152 RED DEE4    240.00    155 BENALTO4    240.00 00 -0.16000  -240.3  584.0 OPEN 147 [GAETZ  4
240.00] TO 81 [BIGSTON4    240.00] CKT 14
  2152.7    152 RED DEE4    240.00    160 JANET  4    240.00 25  0.14590   166.9  481.0
------------------------------------------------------------                                  OPEN 152 [RED DEE4
240.00] TO 99700 [INNISFAIL_NE240.00] CKT 29
  2165.3    123 DIDSBURY    138.00    957 166L JNC    138.00 66 -0.03429    -6.8   81.0 OPEN 152 [RED DEE4
240.00] TO 988 [CROSSF T    240.00] CKT 01
  2166.8     20 EDSON  7    138.00     39 CYNTHIA7    138.00 02  0.03113    17.5   85.0 OPEN 147 [GAETZ  4
240.00] TO 81 [BIGSTON4    240.00] CKT 14
  2177.0    155 BENALTO4    240.00    420 KEEPHIL4    240.00 90 -0.12698  -189.6  466.0 OPEN 155 [BENALTO4
240.00] TO 995 [W.GRN TP    240.00] CKT 95
  2177.0    420 KEEPHIL4    240.00    155 BENALTO4    240.00 90  0.12698   189.6  466.0 OPEN 155 [BENALTO4
240.00] TO 995 [W.GRN TP    240.00] CKT 95
  2183.7     81 BIGSTON4    240.00    147 GAETZ  4    240.00 14  0.17772   110.9  499.0
------------------------------------------------------------                                   OPEN 155 [BENALTO4
240.00] TO 9000 [DIDSBURY_NEW240.00] CKT 18
  2188.4     20 EDSON  7    138.00     39 CYNTHIA7    138.00 02  0.03070    17.8   85.0
------------------------------------------------------------                                  OPEN 152 [RED DEE4
240.00] TO 99500 [PONOKA_NEW  240.00] CKT 10
  2203.7    152 RED DEE4    240.00    160 JANET  4    240.00 25  0.14977   151.0  481.0
------------------------------------------------------------                                   OPEN 9000
[DIDSBURY_NEW240.00] TO 187 [BEDDING1    240.00] CKT 18
  2209.0    155 BENALTO4    240.00    420 KEEPHIL4    240.00 03 -0.12589  -187.9  466.0 OPEN 155 [BENALTO4
240.00] TO 995 [W.GRN TP    240.00] CKT 95
  2209.0    420 KEEPHIL4    240.00    155 BENALTO4    240.00 03  0.12589   187.9  466.0 OPEN 155 [BENALTO4
240.00] TO 995 [W.GRN TP    240.00] CKT 95
  2219.2    107 SUNDRE 7    138.00    883 EAGLE TP    138.00 19  0.03491    42.5  120.0 OPEN 155 [BENALTO4
240.00] TO 161 [SARCEE 4    240.00] CKT 06
  2219.8    107 SUNDRE 7    138.00    883 EAGLE TP    138.00 19  0.03491    42.5  120.0 OPEN 155 [BENALTO4
240.00] TO 161 [SARCEE 4    240.00] CKT 28
  2222.3    152 RED DEE4    240.00    155 BENALTO4    240.00 00 -0.15534  -238.8  584.0
------------------------------------------------------------                                   OPEN 9000
[DIDSBURY_NEW240.00] TO 187 [BEDDING1    240.00] CKT 18
  2236.3    123 DIDSBURY    138.00    957 166L JNC    138.00 66 -0.03347    -6.1   81.0 OPEN 152 [RED DEE4
240.00] TO 160 [JANET  4    240.00] CKT 25
  2237.6    107 SUNDRE 7    138.00    883 EAGLE TP    138.00 19  0.03471    42.3  120.0 OPEN 120 [INNISFA7
138.00] TO 121 [OLDS   7    138.00] CKT 80
  2247.1    123 DIDSBURY    138.00    957 166L JNC    138.00 66 -0.03071   -12.0   81.0 OPEN 205 [AMOCO R7
138.00] TO 890 [AMOCO TP    138.00] CKT 19
  2247.5     81 BIGSTON4    240.00    147 GAETZ  4    240.00 14  0.17506   105.6  499.0
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  2515.8    101 COOKING7    138.00     65 BARDO  7    138.00 74  0.02036    33.8   85.0 OPEN 155 [BENALTO4
240.00] TO 420 [KEEPHIL4    240.00] CKT 90
  2519.7    147 GAETZ  4    240.00    152 RED DEE4    240.00 14  0.16358    86.8  499.0 OPEN 155 [BENALTO4
240.00] TO 420 [KEEPHIL4    240.00] CKT 03
  2520.7    101 COOKING7    138.00     65 BARDO  7    138.00 74  0.02033    33.8   85.0 OPEN 155 [BENALTO4
240.00] TO 420 [KEEPHIL4    240.00] CKT 03
  2527.2*   420 KEEPHIL4    240.00    155 BENALTO4    240.00 90  0.12110   160.0  466.0 OPEN 152 [RED DEE4
240.00] TO 160 [JANET  4    240.00] CKT 25
  2527.2*   155 BENALTO4    240.00    420 KEEPHIL4    240.00 90 -0.12110  -160.0  466.0 OPEN 152 [RED DEE4
240.00] TO 160 [JANET  4    240.00] CKT 25
  2529.2     20 EDSON  7    138.00     39 CYNTHIA7    138.00 02  0.02753    15.4   85.0 BASE CASE
  2532.9    124 HARMATT7    138.00    883 EAGLE TP    138.00 19 -0.03491   -31.6  120.0 OPEN 155 [BENALTO4
240.00] TO 161 [SARCEE 4    240.00] CKT 06
  2533.5    124 HARMATT7    138.00    883 EAGLE TP    138.00 19 -0.03491   -31.5  120.0 OPEN 155 [BENALTO4
240.00] TO 161 [SARCEE 4    240.00] CKT 28
  2536.4    155 BENALTO4    240.00    420 KEEPHIL4    240.00 03 -0.12072  -159.8  466.0
------------------------------------------------------------------                 OPEN 152 [RED DEE4
240.00] TO 99700 [INNISFAIL_NE240.00] CKT 29
  2536.4    420 KEEPHIL4    240.00    155 BENALTO4    240.00 03  0.12072   159.8  466.0
------------------------------------------------------------------                 OPEN 152 [RED DEE4
240.00] TO 99700 [INNISFAIL_NE240.00] CKT 29
  2542.1     20 EDSON  7    138.00     39 CYNTHIA7    138.00 02  0.02778    14.4   85.0 OPEN 81 [BIGSTON4
240.00] TO 374 [BIGSTON7    138.00] CKT T1
  2547.9    155 BENALTO4    240.00    420 KEEPHIL4    240.00 03 -0.12053  -158.9  466.0 OPEN 152 [RED DEE4
240.00] TO 988 [CROSSF T    240.00] CKT 01
  2547.9    420 KEEPHIL4    240.00    155 BENALTO4    240.00 03  0.12053   158.9  466.0 OPEN 152 [RED DEE4
240.00] TO 988 [CROSSF T    240.00] CKT 01
  2550.1    766 BAT_BUS_DATA138.00     79 BUFFALO7    138.00 29  0.03723   -45.1   49.8 OPEN 155 [BENALTO4
240.00] TO 135 [SUNDANC4    240.00] CKT 26
  2550.9    766 BAT_BUS_DATA138.00     79 BUFFALO7    138.00 29  0.03722   -45.1   49.8 OPEN 155 [BENALTO4
240.00] TO 135 [SUNDANC4    240.00] CKT 22
  2553.2    124 HARMATT7    138.00    883 EAGLE TP    138.00 19 -0.03471   -31.4  120.0 OPEN 120 [INNISFA7
138.00] TO 121 [OLDS   7    138.00] CKT 80
  2560.8*   420 KEEPHIL4    240.00    155 BENALTO4    240.00 03  0.12005   158.6  466.0 OPEN 152 [RED DEE4
240.00] TO 160 [JANET  4    240.00] CKT 25
  2560.8*   155 BENALTO4    240.00    420 KEEPHIL4    240.00 03 -0.12005  -158.6  466.0 OPEN 152 [RED DEE4
240.00] TO 160 [JANET  4    240.00] CKT 25
  2566.1    881 RAVEN TP    138.00    890 AMOCO TP    138.00 19 -0.01789   -74.1  120.0 OPEN 99 [BENALTO7
138.00] TO 882 [SCHRA TP    138.00] CKT 48
  2595.8    101 COOKING7    138.00     65 BARDO  7    138.00 74  0.02009    32.9   85.0
------------------------------------------------------------------                  OPEN 155 [BENALTO4
240.00] TO 9000 [DIDSBURY_NEW240.00] CKT 18
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  2595.9  99700 INNISFAIL_NE240.00    160 JANET  4    240.00 29  0.13112   140.6  481.0 OPEN 155 [BENALTO4
240.00] TO 161 [SARCEE 4    240.00] CKT 06
  2596.6  99700 INNISFAIL_NE240.00    160 JANET  4    240.00 29  0.13112   140.5  481.0 OPEN 155 [BENALTO4
240.00] TO 161 [SARCEE 4    240.00] CKT 28
  2617.8    119 N RED D7    138.00    148 GAETZ  7    138.00 78 -0.04275   -68.1  180.0 OPEN 147 [GAETZ  4
240.00] TO 152 [RED DEE4    240.00] CKT 14
  2617.8    119 N RED D7    138.00    148 GAETZ  7    138.00 68 -0.04275   -68.1  180.0 OPEN 147 [GAETZ  4
240.00] TO 152 [RED DEE4    240.00] CKT 14
  2635.9    121 OLDS   7    138.00    123 DIDSBURY    138.00 80  0.03822    21.2  122.0
------------------------------------------------------------------
                                                                          OPEN 99700
[INNISFAIL_NE240.00] TO 160 [JANET  4    240.00] CKT 29
  2637.0*   101 COOKING7    138.00     65 BARDO  7    138.00 74  0.02009    32.0   85.0
------------------------------------------------------------------
                                                                           OPEN 9000
[DIDSBURY_NEW240.00] TO 187 [BEDDING1    240.00] CKT 18
  2639.8    147 GAETZ  4    240.00    152 RED DEE4    240.00 14  0.15937    78.3  499.0
------------------------------------------------------------------
                                                                           OPEN 155 [BENALTO4
240.00] TO 9000 [DIDSBURY_NEW240.00] CKT 18
  2653.7    766 BAT_BUS_DATA138.00     79 BUFFALO7    138.00 29  0.03648   -47.0   49.8
------------------------------------------------------------------
                                                                           OPEN 155 [BENALTO4
240.00] TO 9000 [DIDSBURY_NEW240.00] CKT 18
  2654.2    124 HARMATT7    138.00    883 EAGLE TP    138.00 19 -0.03429   -29.0  120.0 OPEN 152 [RED DEE4
240.00] TO 988 [CROSSF T    240.00] CKT 01
  2658.6    104 STRACHA7    138.00    890 AMOCO TP    138.00 19  0.01285    85.8  120.0
------------------------------------------------------------------
                                                                          OPEN 152 [RED DEE4
240.00] TO 99700 [INNISFAIL_NE240.00] CKT 29
  2664.9    147 GAETZ  4    240.00    152 RED DEE4    240.00 14  0.15691    80.8  499.0 OPEN 115 [S RED DE
138.00] TO 119 [N RED D7    138.00] CKT 80
  2665.0    147 GAETZ  4    240.00    152 RED DEE4    240.00 14  0.15942    74.1  499.0
------------------------------------------------------------------
                                                                           OPEN 9000
[DIDSBURY_NEW240.00] TO 187 [BEDDING1    240.00] CKT 18
  2671.4    766 BAT_BUS_DATA138.00     79 BUFFALO7    138.00 29  0.03655   -47.8   49.8
------------------------------------------------------------------
                                                                           OPEN 9000
[DIDSBURY_NEW240.00] TO 187 [BEDDING1    240.00] CKT 18
  2674.5    766 BAT_BUS_DATA138.00     79 BUFFALO7    138.00 29  0.03614   -46.8   49.8 OPEN 155 [BENALTO4
240.00] TO 420 [KEEPHIL4    240.00] CKT 90
  2676.8    766 BAT_BUS_DATA138.00     79 BUFFALO7    138.00 29  0.03612   -46.9   49.8 OPEN 155 [BENALTO4
240.00] TO 420 [KEEPHIL4    240.00] CKT 03
  2687.2*   147 GAETZ  4    240.00    152 RED DEE4    240.00 14  0.15364    86.1  499.0 OPEN 155 [BENALTO4
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240.00] TO 995 [W.GRN TP    240.00] CKT 95
  2690.4  99700 INNISFAIL_NE240.00    160 JANET  4    240.00 29  0.12987   131.6  481.0
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                                                                                OPEN 155 [BENALTO4
240.00] TO 9000 [DIDSBURY_NEW240.00] CKT 18
  2709.2    766 BAT_BUS_DATA138.00     79 BUFFALO7    138.00 29  0.03577   -47.1   49.8 OPEN 155 [BENALTO4
240.00] TO 161 [SARCEE 4    240.00] CKT 06
  2709.4*   766 BAT_BUS_DATA138.00     79 BUFFALO7    138.00 29  0.03577   -47.1   49.8 OPEN 155 [BENALTO4
240.00] TO 161 [SARCEE 4    240.00] CKT 28
  2717.8     68 N HOLDE7    138.00     65 BARDO  7    138.00 74 -0.02278   -23.1   85.0 OPEN 147 [GAETZ  4
240.00] TO 152 [RED DEE4    240.00] CKT 14
  2727.6     20 EDSON  7    138.00     39 CYNTHIA7    138.00 02  0.02641    13.0   85.0 OPEN 152 [RED DEE4
240.00] TO 155 [BENALTO4    240.00] CKT 00
  2728.4     68 N HOLDE7    138.00     65 BARDO  7    138.00 74 -0.02178   -25.6   85.0 OPEN 155 [BENALTO4
240.00] TO 135 [SUNDANC4    240.00] CKT 26
  2729.8     68 N HOLDE7    138.00     65 BARDO  7    138.00 74 -0.02177   -25.6   85.0 OPEN 155 [BENALTO4
240.00] TO 135 [SUNDANC4    240.00] CKT 22
  2730.6    120 INNISFA7    138.00    121 OLDS   7    138.00 80  0.02932    41.9  122.0 OPEN 107 [SUNDRE 7
138.00] TO 883 [EAGLE TP    138.00] CKT 19
  2737.2    124 HARMATT7    138.00    883 EAGLE TP    138.00 19 -0.03347   -28.4  120.0 OPEN 152 [RED DEE4
240.00] TO 160 [JANET  4    240.00] CKT 25
  2775.5     99 BENALTO7    138.00    882 SCHRA TP    138.00 48  0.03954    64.3  174.0
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                                                                                OPEN 155 [BENALTO4
240.00] TO 9000 [DIDSBURY_NEW240.00] CKT 18
  2787.5    124 HARMATT7    138.00    883 EAGLE TP    138.00 19 -0.03254   -29.3  120.0 OPEN 152 [RED DEE4
240.00] TO 155 [BENALTO4    240.00] CKT 00
  2793.1*   124 HARMATT7    138.00    883 EAGLE TP    138.00 19 -0.03071   -34.2  120.0 OPEN 205 [AMOCO R7
138.00] TO 890 [AMOCO TP    138.00] CKT 19
  2805.9    152 RED DEE4    240.00    160 JANET  4    240.00 25  0.12195   138.8  481.0 OPEN 123 [DIDSBURY
138.00] TO 982 [MADDEN T    138.00] CKT 80
  2806.3    370 SHELL C7    138.00    881 RAVEN TP    138.00 19 -0.01789   -69.8  120.0 OPEN 99 [BENALTO7
138.00] TO 882 [SCHRA TP    138.00] CKT 48
  2815.4     68 N HOLDE7    138.00     65 BARDO  7    138.00 74 -0.02159   -24.2   85.0
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                                                                                OPEN 155 [BENALTO4
240.00] TO 9000 [DIDSBURY_NEW240.00] CKT 18
  2817.4    152 RED DEE4    240.00    155 BENALTO4    240.00 00 -0.13036  -216.7  584.0 OPEN 147 [GAETZ  4
240.00] TO 152 [RED DEE4    240.00] CKT 14
  2823.4    120 INNISFA7    138.00    121 OLDS   7    138.00 80  0.02932    39.2  122.0 OPEN 124 [HARMATT7
138.00] TO 883 [EAGLE TP    138.00] CKT 19
  2828.1     68 N HOLDE7    138.00     65 BARDO  7    138.00 74 -0.02133   -24.7   85.0 OPEN 155 [BENALTO4
240.00] TO 420 [KEEPHIL4    240.00] CKT 90
  2833.9     68 N HOLDE7    138.00     65 BARDO  7    138.00 74 -0.02130   -24.6   85.0 OPEN 155 [BENALTO4
240.00] TO 420 [KEEPHIL4    240.00] CKT 03
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  2841.6    152 RED DEE4    240.00    160 JANET  4    240.00 25  0.12164   135.3  481.0 OPEN 155 [BENALTO4
240.00] TO 135 [SUNDANC4    240.00] CKT 26
  2841.8*   152 RED DEE4    240.00    160 JANET  4    240.00 25  0.12164   135.3  481.0 OPEN 155 [BENALTO4
240.00] TO 135 [SUNDANC4    240.00] CKT 22
  2844.4     68 N HOLDE7    138.00     65 BARDO  7    138.00 74 -0.02175   -23.1   85.0
------------------------------------------------------------                                  OPEN 9000
[DIDSBURY_NEW240.00] TO 187 [BEDDING1    240.00] CKT 18
  2873.4  99700 INNISFAIL_NE240.00    160 JANET  4    240.00 29  0.12067   134.3  481.0
------------------------------------------------------------                                  OPEN 99700
[INNISFAIL_NE240.00] TO 120 [INNISFA7    138.00] CKT T1
  2886.2    881 RAVEN TP    138.00    890 AMOCO TP    138.00 19 -0.01789   -68.4  120.0 OPEN 370 [SHELL C7
138.00] TO 882 [SCHRA TP    138.00] CKT 48
  2939.9    117 RED DE A    138.00    118 RED DE B    138.00 1   0.04268    -4.5  121.0 OPEN 147 [GAETZ  4
240.00] TO 152 [RED DEE4    240.00] CKT 14
  2947.0*    68 N HOLDE7    138.00     65 BARDO  7    138.00 74 -0.02066   -24.1   85.0 OPEN 155 [BENALTO4
240.00] TO 161 [SARCEE 4    240.00] CKT 06
  2947.5  99700 INNISFAIL_NE240.00    160 JANET  4    240.00 29  0.12067   125.3  481.0 OPEN 120 [INNISFA7
138.00] TO 121 [OLDS   7    138.00] CKT 80
  2964.1    120 INNISFA7    138.00    121 OLDS   7    138.00 80  0.02932    35.1  122.0 OPEN 124 [HARMATT7
138.00] TO 957 [166L JNC    138.00] CKT 66
  2981.5    147 GAETZ  4    240.00    148 GAETZ  7    138.00 T2  0.05471    36.9  200.0 OPEN 147 [GAETZ  4
240.00] TO 152 [RED DEE4    240.00] CKT 14
  2989.2  99700 INNISFAIL_NE240.00    160 JANET  4    240.00 29  0.11848   126.8  481.0 OPEN 123 [DIDSBURY
138.00] TO 982 [MADDEN T    138.00] CKT 80
  2992.3    881 RAVEN TP    138.00    890 AMOCO TP    138.00 19 -0.01825   -65.4  120.0
------------------------------------------------------------                                  OPEN 155 [BENALTO4
240.00] TO 9000 [DIDSBURY_NEW240.00] CKT 18

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     PTI INTERACTIVE POWER SYSTEM SIMULATOR--PSS/E   TUE, MAR 08 2011   9:52
 RED DEER AND DIDSBURY AREA STUDY                                      PAGE 3
 2012 SUMMER PEAK BASE CASE REVISION 6.5
        *** TLTG EXPORT LIMIT OUTPUT FOR SUBSYSTEM N-OF-SOK     ***

 * MONITORED ELEMENTS OCCURRING     10 OR MORE TIMES

   NO. <----------------- MONITORED ELEMENT ----------------->
 TIMES <------- F R O M -------> <--------- T O ---------> CKT
    57    147 GAETZ  4    240.00    152 RED DEE4    240.00  14
    44   9000 DIDSBURY_NEW240.00    187 BEDDING1    240.00  18
    43    152 RED DEE4    240.00    988 CROSSF T    240.00  01
```

43	152	RED DEE4	240.00	99700	INNISFAIL_NE	240.00	29
42	155	BENALTO4	240.00	9000	DIDSBURY_NEW	240.00	18
40	128	ELLERSLI	240.00	81	BIGSTON4	240.00	14
40	155	BENALTO4	240.00	161	SARCEE 4	240.00	06
40	155	BENALTO4	240.00	161	SARCEE 4	240.00	28
38	81	BIGSTON4	240.00	147	GAETZ 4	240.00	14
37	152	RED DEE4	240.00	160	JANET 4	240.00	25
37	123	DIDSBURY	138.00	982	MADDEN T	138.00	80
33	107	SUNDRE 7	138.00	370	SHELL C7	138.00	19
31	128	ELLERSLI	240.00	99500	PONOKA_NEW	240.00	10
31	152	RED DEE4	240.00	99500	PONOKA_NEW	240.00	10
30	124	HARMATT7	138.00	957	166L JNC	138.00	66
29	123	DIDSBURY	138.00	957	166L JNC	138.00	66
27	107	SUNDRE 7	138.00	883	EAGLE TP	138.00	19
26	155	BENALTO4	240.00	135	SUNDANC4	240.00	22
26	155	BENALTO4	240.00	135	SUNDANC4	240.00	26
26	135	SUNDANC4	240.00	155	BENALTO4	240.00	22
26	135	SUNDANC4	240.00	155	BENALTO4	240.00	26
23	155	BENALTO4	240.00	420	KEEPHIL4	240.00	03
23	155	BENALTO4	240.00	420	KEEPHIL4	240.00	90
23	420	KEEPHIL4	240.00	155	BENALTO4	240.00	03
23	420	KEEPHIL4	240.00	155	BENALTO4	240.00	90
20	766	BAT_BUS_DATA	138.00	79	BUFFALO7	138.00	29
18	101	COOKING7	138.00	65	BARDO 7	138.00	74
16	124	HARMATT7	138.00	883	EAGLE TP	138.00	19
11	68	N HOLDE7	138.00	65	BARDO 7	138.00	74

Alternative 2-2012SL-TLTG-Result

PTI INTERACTIVE POWER SYSTEM SIMULATOR--PSS/E TUE, MAR 08 2011 9:51
RED DEER AND DIDSBURY AREA STUDY PAGE 1
2012 SUMMER LIGHT BASE CASE REVISION 6.5
*** TLTG EXPORT LIMIT OUTPUT FOR BASE CASE ***

DISTRIBUTION FACTOR FILE: C:\Documents and Settings\zheny2\My Documents\AESO-RED DEER\New Final Case 01-03-2011\2012\TLTG(Transfer Capability Study
SUBSYSTEM DESCRIPTION FILE: C:\Documents and Settings\zheny2\My Documents\AESO-RED DEER\New Final Case 01-03-2011\2012\TLTG(Transfer Capability Study
MONITORED ELEMENT FILE: C:\Documents and Settings\zheny2\My Documents\AESO-RED DEER\New Final Case 01-03-2011\2012\TLTG(Transfer Capability Study
CONTINGENCY DESCRIPTION FILE: C:\Documents and Settings\zheny2\My Documents\AESO-RED DEER\New Final Case 01-03-2011\2012\TLTG(Transfer Capability Study

	PRE-SHIFT	DELTA	POST-SHIFT
STUDY SYSTEM MW GENERATION:	6453.2	100.0	6553.2
OPPOSING SYSTEM MW GENERATION:	90.0	-100.0	-10.0
STUDY SYSTEM NET INTERCHANGE:	766.3	100.0	866.3

<---------- STUDY SYSTEM ---------->					<---------- OPPOSING SYSTEM ---------->				
			<---- GENERATOR MW ---->					<---- GENERATOR MW ---->	
BUS#	X-- NAME	--X BASKV	BASE	SHIFT	CHANGE	BUS#	X-- NAME	--X BASKV	BASE	SHIFT	CHANGE
14	WESGEN 9	13.800	15.3	15.5	0.2	3290	BALZ 3	13.800	10.0	-8.0	-18.0
129	SUND#1GN	18.000	120.0	123.4	3.4	4187	CECGT	18.000	60.0	3.5	-56.5
130	SUND#3GN	20.000	420.0	424.5	4.5	4290	BALZ 1&2	13.800	20.0	-5.5	-25.5
338	SUND#2GN	18.000	260.0	263.4	3.4						
342	SUND#4GN	20.000	370.0	374.5	4.5						
345	SUND#5GN	20.000	340.0	344.5	4.5						
350	SUND#6GN	20.000	370.0	374.8	4.8						
408	WHITEGE9	12.500	25.0	25.4	0.4						
422	KEEP#1GN	19.000	400.0	404.5	4.5						
424	KEEP#2GN	19.000	400.0	404.5	4.5						
454	DOW GEN1	14.400	80.0	81.1	1.1						
490	GENES 39	22.000	450.0	456.0	6.0						
491	GENES 19	20.500	48.4	53.3	4.9						
492	GENES 29	20.500	380.0	384.9	4.9						
627	AIR LIQC	13.800	84.0	85.0	1.0						
1015	FORT NE9	13.800	30.0	30.6	0.6						
1089	DIASHOW9	13.800	15.0	15.5	0.5						
1141	P&G 9	13.800	15.0	15.4	0.4						
1148	HR MILN9	15.000	140.0	141.7	1.7						
2030	DOWSTG 9	14.700	45.0	45.5	0.5						
2031	DOWGTG 9	13.800	10.0	11.0	1.0						
2248	MAHKE-G2	13.800	60.0	61.1	1.1						

2405	CONKLIN2	13.800	76.5	77.5	1.0
3050	REDW GT	13.800	37.0	37.7	0.7
3248	MAHKE-G1	13.800	70.0	71.1	1.1
3301	FCG1	13.800	20.0	20.4	0.4
3302	FCG2	13.800	40.0	40.4	0.4
4185	SCOTF GT	13.800	70.0	71.1	1.1
7185	SCOTF ST	13.800	40.0	41.1	1.1
10236	MUSKEG4	13.800	76.5	77.6	1.1
12236	MUSKEG6	13.800	76.5	77.6	1.1
12249	LNGLKCG1	13.800	72.0	73.1	1.1
13249	LNGLKCG2	13.800	72.0	73.1	1.1
16218	SUNC_G19	13.800	13.1	13.5	0.4
16219	MIL_G3	13.800	47.9	48.6	0.8
16233	SYNC_UE5	13.800	71.2	72.2	1.0
17101	GPEP39	13.800	17.8	18.1	0.3
17209	SYNC_G39	13.800	18.4	18.8	0.3
17210	SYNC_G49	13.800	36.7	37.3	0.7
17233	SYNC_UE4	13.800	12.6	12.9	0.3
18142	BEARCK2	13.800	50.0	50.6	0.6
18206	AUR_GTG2	13.800	74.5	75.5	1.0
18207	AUR_GTG1	13.800	69.8	70.9	1.0
18208	MIL_G5 9	13.800	80.0	81.5	1.5
18209	SYNC_G29	13.800	37.7	38.4	0.7
18210	SYNC_G59	13.800	18.4	18.8	0.3
18218	SUNC G29	13.800	13.1	13.5	0.4
18223	TAR-GN-2	13.800	50.5	51.4	0.9
18264	HORUP7	13.800	77.7	78.7	1.0
18274	MACKAY2	18.000	148.5	150.4	1.9
18302	PRIM GEN	13.800	80.0	81.1	1.1
19142	BEARCK3	13.800	30.0	30.4	0.4
19208	MIL_G6 9	13.800	90.0	91.5	1.5
19209	SYNC_G19	13.800	37.7	38.4	0.7
19210	SYNC_G69	13.800	27.9	28.7	0.8
19264	HORUP6	13.800	14.6	14.8	0.2
19268	HORUP10	13.800	77.7	78.7	1.0
90351	KEEUN3	22.000	450.0	456.0	6.0
90517	SH_UG32	13.800	16.0	16.2	0.2
91521	BIOMASS1	12.500	15.0	15.4	0.4
91522	BIOMASS2	12.500	15.0	15.4	0.4
96083	SHELLCM2	18.000	120.0	122.5	2.5
97247	SURMONT 13	13.800	65.0	66.1	1.1
97275	G-L_CG2	13.800	130.0	132.1	2.1

LOADINGS AT OR ABOVE 100.0 %
OF RATING ARE MARKED WITH '*'

<------- F R O M ------->			<--------- T O --------->		CKT	INCR. TRANS CAPAB	RATING A	<---------- BASE CASE ----------> PRE-SHIFT MW	POST-SHIFT MW	LIMIT CASE MW	DISTR. FACTOR
155	BENALTO4	240.00	9000	DIDSBURY_NEW	240.00	18	1100.8	417	180.1	201.7	417.0*	0.21516

9000	DIDSBURY_NEW	240.00	187	BEDDING1	240.00	18	1204.0	417	128.7	152.6	392.3	0.23945
152	RED DEE4	240.00	988	CROSSF T	240.00	01	1769.8	408	152.6	167.0	311.4	0.14434
135	SUNDANC4	240.00	155	BENALTO4	240.00	26	2028.3	466	153.7	169.1	323.2	0.15397
155	BENALTO4	240.00	135	SUNDANC4	240.00	26	2028.3	466	-153.7	-169.1	-323.2	-0.15397
155	BENALTO4	240.00	135	SUNDANC4	240.00	22	2034.1	466	-153.4	-168.7	-322.6	-0.15370
135	SUNDANC4	240.00	155	BENALTO4	240.00	22	2034.1	466	153.4	168.7	322.6	0.15370
152	RED DEE4	240.00	99700	INNISFAIL_NE	240.00	29	2329.5	481	164.9	178.5	314.3	0.13568
128	ELLERSLI	240.00	99500	PONOKA_NEW	240.00	10	2336.3	466	100.3	116.0	272.6	0.15652
155	BENALTO4	240.00	161	SARCEE 4	240.00	06	2371.8	449	149.2	161.9	288.4	0.12638
155	BENALTO4	240.00	161	SARCEE 4	240.00	28	2375.1	449	148.9	161.5	288.0	0.12637
123	DIDSBURY	138.00	982	MADDEN T	138.00	80	2403.3	122	52.9	55.7	84.5	0.02877
128	ELLERSLI	240.00	81	BIGSTON4	240.00	14	2406.3	481	139.9	154.1	295.9	0.14175
152	RED DEE4	240.00	99500	PONOKA_NEW	240.00	10	2502.1	466	-74.4	-90.0	-246.7	-0.15652
155	BENALTO4	240.00	420	KEEPHIL4	240.00	90	2550.1	466	-158.0	-170.0	-290.9	-0.12080
420	KEEPHIL4	240.00	155	BENALTO4	240.00	90	2550.1	466	158.0	170.0	290.9	0.12080
420	KEEPHIL4	240.00	155	BENALTO4	240.00	03	2583.7	466	156.6	168.6	288.4	0.11975
155	BENALTO4	240.00	420	KEEPHIL4	240.00	03	2583.7	466	-156.6	-168.6	-288.4	-0.11975
107	SUNDRE 7	138.00	370	SHELL C7	138.00	19	2643.9	120	-38.1	-41.2	-72.2	-0.03097
147	GAETZ 4	240.00	152	RED DEE4	240.00	14	2648.8	499	106.1	121.0	269.4	0.14832
81	BIGSTON4	240.00	147	GAETZ 4	240.00	14	2696.9	499	46.6	63.4	231.3	0.16774
20	EDSON 7	138.00	39	CYNTHIA7	138.00	02	2728.3	85	10.7	13.4	40.7	0.02723
124	HARMATT7	138.00	957	166L JNC	138.00	66	2730.7	78	-6.6	-3.5	27.5	0.03097
25	ENTWIST8	69.000	28	MOON LA8	69.000	29	2853.8	29	9.3	10.0	16.9	0.00691
101	COOKING7	138.00	65	BARDO 7	138.00	74	2887.1	85	32.0	33.8	52.2	0.01836
123	DIDSBURY	138.00	957	166L JNC	138.00	66	2899.6	81	8.8	5.7	-25.3	-0.03097
68	N HOLDE7	138.00	65	BARDO 7	138.00	74	2913.2	85	-28.6	-30.5	-49.9	-0.01937
152	RED DEE4	240.00	160	JANET 4	240.00	25	2944.3	481	130.4	142.3	261.5	0.11909
99700	INNISFAIL_NE	240.00	160	JANET 4	240.00	29	3200.2	481	117.4	128.8	242.5	0.11361
107	SUNDRE 7	138.00	883	EAGLE TP	138.00	19	3379.7	120	15.3	18.4	49.4	0.03097
766	VER_TAP	138.00	79	BUFFALO7	138.00	29	3591.6	50	-71.4*	-68.0*	-34.2	0.03374
124	HARMATT7	138.00	883	EAGLE TP	138.00	19	3659.3	120	-6.7	-9.8	-40.8	-0.03097
120	INNISFA7	138.00	121	OLDS 7	138.00	80	4222.4	122	28.8	31.0	53.1	0.02208
121	OLDS 7	138.00	123	DIDSBURY	138.00	80	4945.6	122	12.8	15.0	37.1	0.02208
76	IPPL ST7	138.00	14001	HEISLERTAP	138.00	1	4989.5	95	-67.5	-64.2	-31.6	0.03257
152	RED DEE4	240.00	155	BENALTO4	240.00	00	5200.5	584	-106.0	-115.2	-207.2	-0.09192
99	BENALTO7	138.00	882	SCHRA TP	138.00	48	5893.5	174	49.1	51.2	72.4	0.02119
91	NISKU 7	138.00	93	WETASKI7	138.00	58	6323.3	96	-4.6	-3.0	12.9	0.01591
370	SHELL C7	138.00	882	SCHRA TP	138.00	48	6470.0	174	-36.9	-39.0	-60.2	-0.02119
120	INNISFA7	138.00	99700	INNISFAIL_NE	240.00	T1	6957.5	200	-46.4	-48.6	-70.7	-0.02208
862	PV-TAP7	138.00	362	EDGERTO7	138.00	49	7655.4	88	-44.9	-43.1	-25.8	0.01736
104	STRACHA7	138.00	890	AMOCO TP	138.00	19	8322.5	120	38.6	39.6	49.4	0.00978
99	BENALTO7	138.00	100	ROCKY M7	138.00	17	8705.8	112	26.8	27.8	37.6	0.00978
155	BENALTO4	240.00	995	W.GRN TP	240.00	95	9244.3	466	-60.7	-65.1	-109.0	-0.04384
99	BENALTO7	138.00	155	BENALTO4	240.00	T1	9630.7	200	-44.8	-46.4	-62.6	-0.01611
99	BENALTO7	138.00	155	BENALTO4	240.00	T2	9630.7	200	-44.8	-46.4	-62.6	-0.01611
96	DEVON 7	138.00	365	BUFORD 7	138.00	38	9809.0	121	12.3	13.4	24.5	0.01108
123	DIDSBURY	138.00	9000	DIDSBURY_NEW	240.00	T1	10249.8	200	-48.9	-46.5	-22.2	0.02428
881	RAVEN TP	138.00	890	AMOCO TP	138.00	19	10301.9	120	-19.2	-20.2	-30.0	-0.00978

105	PIGEON 7	138.00	374	BIGSTON7	138.00	05	10312.4	85	-29.3	-28.2	-17.1	0.01108
423	KEEPHIL7	138.00	49	KEYSTON7	138.00	34	10396.9	158	57.1	58.1	67.8	0.00970
370	SHELL C7	138.00	881	RAVEN TP	138.00	19	10648.0	120	-15.8	-16.8	-26.6	-0.00978
356	BON GLE7	138.00	365	BUFORD 7	138.00	38	11173.6	121	2.8	1.7	-9.4	-0.01108
81	BIGSTON4	240.00	374	BIGSTON7	138.00	T1	11278.7	200	93.1	90.5	64.5	-0.02599
100	ROCKY M7	138.00	104	STRACHA7	138.00	70	11791.8	120	4.7	5.6	15.4	0.00978
105	PIGEON 7	138.00	356	BON GLE7	138.00	37	12227.6	119	16.5	15.4	4.3	-0.01108
93	WETASKI7	138.00	803	803/804N	138.00	04	12689.4	126	-63.1	-61.7	-46.7	0.01491
374	BIGSTON7	138.00	804	803/804X	138.00	04	12706.7	126	63.4	61.9	47.0	-0.01491
118	RED DE B	138.00	152	RED DEE4	240.00	T2	16962.9	200	23.1	24.1	34.6	0.01043
119	N RED D7	138.00	148	GAETZ 7	138.00	68	17232.0	180	-48.3	-49.1	-56.7	-0.00764
119	N RED D7	138.00	148	GAETZ 7	138.00	78	17232.0	180	-48.3	-49.1	-56.7	-0.00764
117	RED DE A	138.00	152	RED DEE4	240.00	T1	17330.3	200	22.7	23.7	34.0	0.01023
117	RED DE A	138.00	118	RED DE B	138.00	1	18870.6	121	15.6	16.2	21.8	0.00558
115	S RED DE	138.00	119	N RED D7	138.00	80	19111.0	372	-69.7	-71.3	-87.2	-0.01582
115	S RED DE	138.00	117	RED DE A	138.00	80	20791.3	372	43.2	44.7	60.6	0.01582
803	803/804N	138.00	804	803/804X	138.00	04	21152.7	126	-31.6	-30.9	-23.4	0.00745
803	803/804N	138.00	804	803/804X	138.00	03	21152.7	126	-31.6	-30.9	-23.4	0.00745
147	GAETZ 4	240.00	148	GAETZ 7	138.00	T2	23536.2	200	-30.2	-29.2	-19.4	0.00978
147	GAETZ 4	240.00	148	GAETZ 7	138.00	T1	23824.6	200	-29.7	-28.8	-19.1	0.00964
152	RED DEE4	240.00	1422	NEVIS 4	240.00	12	33627.0	499	-116.6	-114.7	-96.4	0.01831
	INTERFACE SOK						40361.5	2050	-224.4	-218.7	-162.3	0.05635
383	JOFFRE 7	138.00	664	PIPER CR	138.00	55	53231.7	252	60.0	60.4	64.0	0.00361
94	ERVICK 7	138.00	899	TRUE W T	138.00	29	53670.1	85	-30.9	-31.0	-32.0	-0.00101
118	RED DE B	138.00	664	PIPER CR	138.00	55	58131.7	252	-42.3	-42.7	-46.3	-0.00361
93	WETASKI7	138.00	899	TRUE W T	138.00	29	64276.4	96	31.2	31.3	32.3	0.00101
70	CAMROSE7	138.00	94	ERVICK 7	138.00	29	64846.8	85	-19.6	-19.7	-20.7	-0.00101
70	CAMROSE7	138.00	946	KING TAP	138.00	30	87612.7	85	-3.3	-3.2	-2.2	0.00101
65	BARDO 7	138.00	946	KING TAP	138.00	30	88700.9	86	3.4	3.3	2.3	-0.00101
95	PONOKA 7	138.00	192	NELSON L	138.00	1	>99999.	96	6.4	6.4	6.4	0.00000
95	PONOKA 7	138.00	99501	PONOKAT1	240.00	T1	>99999.	100	-12.7	-12.7	-12.7	0.00000
95	PONOKA 7	138.00	99502	PONOKAT2	240.00	T2	>99999.	100	-12.7	-12.7	-12.7	0.00000
97	ECKVILL7	138.00	956	758L JCT	138.00	58	>99999.	85	-12.5	-12.5	-12.5	0.00000
98	RIMBEY 7	138.00	956	758L JCT	138.00	57	>99999.	85	-15.9	-15.9	-15.9	0.00000
99	BENALTO7	138.00	780	SYLV_138	138.00	1	>99999.	252	-21.7	-21.5	-20.3	0.00125
99	BENALTO7	138.00	956	758L JCT	138.00	57	>99999.	85	28.5	28.5	28.5	0.00000
113	BLACKFA7	138.00	116	W LACOMB	138.00	80	>99999.	112	-11.7	-11.8	-12.3	-0.00053
113	BLACKFA7	138.00	119	N RED D7	138.00	80	>99999.	122	-2.3	-2.2	-1.7	0.00053
114	LACOMBE7	138.00	116	W LACOMB	138.00	80	>99999.	75	11.8	11.8	12.4	0.00053
114	LACOMBE7	138.00	388	ELLIS 7	138.00	1	>99999.	252	-20.3	-20.4	-20.9	-0.00053
118	RED DE B	138.00	780	SYLV_138	138.00	1	>99999.	252	34.8	34.7	33.5	-0.00124
122	MADDEN 7	138.00	982	MADDEN T	138.00	89	>99999.	75	-10.1	-10.1	-10.1	0.00000
124	HARMATT7	138.00	97619	HGF1	138.00	01	>99999.	174	0.6	0.6	0.6	0.00000
126	SHELL H7	138.00	957	166L JNC	138.00	66	>99999.	85	-2.2	-2.2	-2.2	0.00000
142	KINGMAN7	138.00	946	KING TAP	138.00	32	>99999.	86	0.0	0.0	0.0	0.00000
148	GAETZ 7	138.00	383	JOFFRE 7	138.00	56	>99999.	154	-72.3	-72.1	-70.5	0.00158
148	GAETZ 7	138.00	383	JOFFRE 7	138.00	93	>99999.	154	-72.2	-72.1	-70.5	0.00158
148	GAETZ 7	138.00	384	UC PRENT	138.00	59	>99999.	154	-12.3	-12.2	-11.2	0.00097

```
   152 RED DEE4    240.00  93700 RED DEER LUM25.000  T1 >99999.   240     0.0     0.0     0.0   0.00000
   205 AMOCO R7    138.00    257 LIMESTO7    138.00  64 >99999.   121    14.5    14.5    14.5   0.00000
   205 AMOCO R7    138.00    890 AMOCO TP    138.00  19 >99999.   121   -18.8   -18.8   -18.8   0.00000
   354 NOVA C17    138.00    383 JOFFRE 7    138.00  1  >99999.   327   130.9   130.9   130.9   0.00000
   355 NOVA C27    138.00    383 JOFFRE 7    138.00  2  >99999.   327   255.4   255.4   255.4   0.00000
   382 SHELL RA    138.00    881 RAVEN TP    138.00  19 >99999.   121    -3.4    -3.4    -3.4   0.00000
   383 JOFFRE 7    138.00    384 UC PRENT    138.00  75 >99999.   154    60.7    60.7    60.4  -0.00024
   383 JOFFRE 7    138.00    398 BROOKFLD    138.00  89 >99999.   125     4.7     4.7     4.7   0.00000
   383 JOFFRE 7    138.00    975 COMINTAP    138.00  84 >99999.   154    64.2    64.2    64.0  -0.00020
   384 UC PRENT    138.00    388 ELLIS  7    138.00  74 >99999.   154   -11.9   -11.8   -11.1   0.00073
   385 SHELL SC    138.00    882 SCHRA TP    138.00  48 >99999.   121   -11.4   -11.4   -11.4   0.00000
   386 SHELL EA    138.00    883 EAGLE TP    138.00  19 >99999.   121    -8.6    -8.6    -8.6   0.00000
   387 COMINCO7    138.00    975 COMINTAP    138.00  84 >99999.   101    -0.3    -0.3    -0.3   0.00000
   388 ELLIS  7    138.00    975 COMINTAP    138.00  84 >99999.   154   -63.6   -63.6   -63.4   0.00020
   440 TRUE WEL    138.00    899 TRUE W T    138.00  29 >99999.    98     0.0     0.0     0.0   0.00000
 99500 PONOKA_NEW  240.00  99501 PONOKAT1    240.00  T1 >99999.   100    12.7    12.7    12.7   0.00000
 99500 PONOKA_NEW  240.00  99502 PONOKAT2    240.00  T2 >99999.   100    12.7    12.7    12.7   0.00000

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     PTI INTERACTIVE POWER SYSTEM SIMULATOR--PSS/E   TUE, MAR 08 2011   9:51
 RED DEER AND DIDSBURY AREA STUDY                                  PAGE 2
 2012 SUMMER LIGHT BASE CASE REVISION 6.5
        *** TLTG EXPORT LIMIT OUTPUT FOR SUBSYSTEM N-OF-SOK     ***

 SOLUTION OF  98 SYSTEM CONDITIONS ATTEMPTED      0 INSOLUBLE SYSTEM CONDITIONS

   INCR.                                                                  PRE- RATING
   TRANS <----------------- LIMITING ELEMENT ----------------->   DISTR.   SHIFT BAS/CNT
   CAPAB <------- F R O M -------> <--------- T O --------->CKT   FACTOR     MW    A/A  <-----------------
CONTINGENCY DESCRIPTION ------------------->
   752.1    123 DIDSBURY    138.00    982 MADDEN T    138.00 80  0.06560    72.7  122.0
-------------------------------------------------------------
                                                                              OPEN 9000
[DIDSBURY_NEW240.00] TO 187 [BEDDING1    240.00] CKT 18
   842.6    155 BENALTO4    240.00   9000 DIDSBURY_NEW240.00 18  0.24217   213.0  417.0
-------------------------------------------------------------
                                                                          OPEN 152 [RED DEE4
240.00] TO 99700 [INNISFAIL_NE240.00] CKT 29
   862.4    155 BENALTO4    240.00   9000 DIDSBURY_NEW240.00 18  0.24028   209.8  417.0 OPEN 155 [BENALTO4
 240.00] TO 161 [SARCEE 4    240.00] CKT 06
   862.7    155 BENALTO4    240.00   9000 DIDSBURY_NEW240.00 18  0.24027   209.7  417.0 OPEN 155 [BENALTO4
 240.00] TO 161 [SARCEE 4    240.00] CKT 28
   920.4    155 BENALTO4    240.00   9000 DIDSBURY_NEW240.00 18  0.23480   200.9  417.0 OPEN 152 [RED DEE4
 240.00] TO 988 [CROSSF T    240.00] CKT 01
   949.3    155 BENALTO4    240.00   9000 DIDSBURY_NEW240.00 18  0.23067   198.0  417.0 OPEN 152 [RED DEE4
 240.00] TO 155 [BENALTO4    240.00] CKT 00
   959.3    155 BENALTO4    240.00   9000 DIDSBURY_NEW240.00 18  0.23000   196.4  417.0 OPEN 152 [RED DEE4
```

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 240.00] TO 160 [JANET  4    240.00] CKT 25
   975.0    155 BENALTO4    240.00   9000 DIDSBURY_NEW240.00 18  0.22745   195.2  417.0 OPEN 107 [SUNDRE 7
 138.00] TO 370 [SHELL C7    138.00] CKT 19
   996.4    155 BENALTO4    240.00   9000 DIDSBURY_NEW240.00 18  0.22242   195.4  417.0
-------------------------------------------------------------                          OPEN 99700
[INNISFAIL_NE240.00] TO 120 [INNISFA7    138.00] CKT T1
   999.6   9000 DIDSBURY_NEW240.00    187 BEDDING1    240.00 18  0.26190   155.2  417.0 OPEN 155 [BENALTO4
 240.00] TO 161 [SARCEE 4    240.00] CKT 06
   999.9   9000 DIDSBURY_NEW240.00    187 BEDDING1    240.00 18  0.26189   155.1  417.0 OPEN 155 [BENALTO4
 240.00] TO 161 [SARCEE 4    240.00] CKT 28
  1004.0    107 SUNDRE 7    138.00    370 SHELL C7    138.00 19 -0.05856   -61.2  120.0
-------------------------------------------------------------                           OPEN 155 [BENALTO4
240.00] TO 9000 [DIDSBURY_NEW240.00] CKT 18
  1013.3   9000 DIDSBURY_NEW240.00    187 BEDDING1    240.00 18  0.26150   152.0  417.0 OPEN 152 [RED DEE4
 240.00] TO 988 [CROSSF T    240.00] CKT 01
  1013.5    155 BENALTO4    240.00   9000 DIDSBURY_NEW240.00 18  0.22435   189.6  417.0
-------------------------------------------------------------                          OPEN 99700
[INNISFAIL_NE240.00] TO 160 [JANET  4    240.00] CKT 29
  1014.7*   155 BENALTO4    240.00   9000 DIDSBURY_NEW240.00 18  0.22745   186.2  417.0 OPEN 107 [SUNDRE 7
 138.00] TO 883 [EAGLE TP    138.00] CKT 19
  1045.1   9000 DIDSBURY_NEW240.00    187 BEDDING1    240.00 18  0.25775   147.6  417.0
-------------------------------------------------------------                          OPEN 99700
[INNISFAIL_NE240.00] TO 160 [JANET  4    240.00] CKT 29
  1049.9    124 HARMATT7    138.00    957 166L JNC    138.00 66  0.05856    16.5   78.0
-------------------------------------------------------------                           OPEN 155 [BENALTO4
240.00] TO 9000 [DIDSBURY_NEW240.00] CKT 18
  1056.7   9000 DIDSBURY_NEW240.00    187 BEDDING1    240.00 18  0.25585   146.7  417.0 OPEN 152 [RED DEE4
 240.00] TO 160 [JANET  4    240.00] CKT 25
  1077.6   9000 DIDSBURY_NEW240.00    187 BEDDING1    240.00 18  0.24984   147.8  417.0 OPEN 123 [DIDSBURY
 138.00] TO 982 [MADDEN T    138.00] CKT 80
  1107.2   9000 DIDSBURY_NEW240.00    187 BEDDING1    240.00 18  0.24971   140.5  417.0 OPEN 152 [RED DEE4
 240.00] TO 155 [BENALTO4    240.00] CKT 00
  1139.2    123 DIDSBURY    138.00    957 166L JNC    138.00 66 -0.05856   -14.3   81.0
-------------------------------------------------------------                           OPEN 155 [BENALTO4
240.00] TO 9000 [DIDSBURY_NEW240.00] CKT 18
  1154.1   9000 DIDSBURY_NEW240.00    187 BEDDING1    240.00 18  0.24450   134.8  417.0
-------------------------------------------------------------                          OPEN 152 [RED DEE4
240.00] TO 99700 [INNISFAIL_NE240.00] CKT 29
  1164.6   9000 DIDSBURY_NEW240.00    187 BEDDING1    240.00 18  0.22833   151.1  417.0
-------------------------------------------------------------                           OPEN 9000
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[DIDSBURY_NEW240.00] TO 123 [DIDSBURY    138.00] CKT T1
  1170.4*  9000 DIDSBURY_NEW240.00    187 BEDDING1    240.00 18  0.24434   131.0  417.0
------------------------------------------------------------------
                                                                          OPEN 152 [RED DEE4
240.00] TO 99500 [PONOKA_NEW  240.00] CKT 10
  1274.8    120 INNISFA7    138.00    121 OLDS   7    138.00 80  0.05289    54.6  122.0
------------------------------------------------------------------
                                                                           OPEN 155 [BENALTO4
240.00] TO 9000 [DIDSBURY_NEW240.00] CKT 18
  1284.0    152 RED DEE4    240.00    988 CROSSF T    240.00 01  0.17239   186.7  408.0
------------------------------------------------------------------
                                                                          OPEN 152 [RED DEE4
240.00] TO 99700 [INNISFAIL_NE240.00] CKT 29
  1303.3    152 RED DEE4    240.00    988 CROSSF T    240.00 01  0.18091   172.2  408.0
------------------------------------------------------------------
                                                                           OPEN 9000
[DIDSBURY_NEW240.00] TO 187 [BEDDING1    240.00] CKT 18
  1315.7    152 RED DEE4    240.00    988 CROSSF T    240.00 01  0.17153   182.3  408.0 OPEN 152 [RED DEE4
 240.00] TO 160 [JANET  4    240.00] CKT 25
  1320.6    155 BENALTO4    240.00    135 SUNDANC4    240.00 26 -0.20097  -200.6  466.0 OPEN 155 [BENALTO4
 240.00] TO 135 [SUNDANC4    240.00] CKT 22
  1320.6    135 SUNDANC4    240.00    155 BENALTO4    240.00 26  0.20097   200.6  466.0 OPEN 155 [BENALTO4
 240.00] TO 135 [SUNDANC4    240.00] CKT 22
  1323.6    155 BENALTO4    240.00    135 SUNDANC4    240.00 22 -0.20073  -200.3  466.0 OPEN 155 [BENALTO4
 240.00] TO 135 [SUNDANC4    240.00] CKT 26
  1323.6    135 SUNDANC4    240.00    155 BENALTO4    240.00 22  0.20073   200.3  466.0 OPEN 155 [BENALTO4
 240.00] TO 135 [SUNDANC4    240.00] CKT 26
  1351.0    152 RED DEE4    240.00    988 CROSSF T    240.00 01  0.17196   175.7  408.0
------------------------------------------------------------------
                                                                           OPEN 155 [BENALTO4
240.00] TO 9000 [DIDSBURY_NEW240.00] CKT 18
  1371.9    152 RED DEE4    240.00    988 CROSSF T    240.00 01  0.16821   177.2  408.0
------------------------------------------------------------------
                                                                          OPEN 99700
[INNISFAIL_NE240.00] TO 160 [JANET  4    240.00] CKT 29
  1393.1    107 SUNDRE 7    138.00    883 EAGLE TP    138.00 19  0.05856    38.4  120.0
------------------------------------------------------------------
                                                                           OPEN 155 [BENALTO4
240.00] TO 9000 [DIDSBURY_NEW240.00] CKT 18
  1440.2    152 RED DEE4    240.00    988 CROSSF T    240.00 01  0.16249   174.0  408.0 OPEN 155 [BENALTO4
 240.00] TO 161 [SARCEE 4    240.00] CKT 06
  1440.5    152 RED DEE4    240.00    988 CROSSF T    240.00 01  0.16249   173.9  408.0 OPEN 155 [BENALTO4
 240.00] TO 161 [SARCEE 4    240.00] CKT 28
  1514.1    152 RED DEE4    240.00  99700 INNISFAIL_NE240.00 29  0.18274   204.3  481.0
------------------------------------------------------------------
                                                                           OPEN 155 [BENALTO4
240.00] TO 9000 [DIDSBURY_NEW240.00] CKT 18
  1541.0    124 HARMATT7    138.00    883 EAGLE TP    138.00 19 -0.05856   -29.8  120.0
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------------------------------------------------------------                                                  OPEN 155 [BENALTO4
240.00] TO 9000 [DIDSBURY_NEW240.00] CKT 18
  1576.7    121 OLDS   7    138.00    123 DIDSBURY    138.00 80  0.05289    38.6  122.0
------------------------------------------------------------                                                  OPEN 155 [BENALTO4
240.00] TO 9000 [DIDSBURY_NEW240.00] CKT 18
  1608.8    420 KEEPHIL4    240.00    155 BENALTO4    240.00 90  0.15978   208.9  466.0 OPEN 155 [BENALTO4
 240.00] TO 420 [KEEPHIL4    240.00] CKT 03
  1608.8    155 BENALTO4    240.00    420 KEEPHIL4    240.00 90 -0.15978  -208.9  466.0 OPEN 155 [BENALTO4
 240.00] TO 420 [KEEPHIL4    240.00] CKT 03
  1626.0    420 KEEPHIL4    240.00    155 BENALTO4    240.00 03  0.15885   207.7  466.0 OPEN 155 [BENALTO4
 240.00] TO 420 [KEEPHIL4    240.00] CKT 90
  1626.0    155 BENALTO4    240.00    420 KEEPHIL4    240.00 03 -0.15885  -207.7  466.0 OPEN 155 [BENALTO4
 240.00] TO 420 [KEEPHIL4    240.00] CKT 90
  1638.9    155 BENALTO4    240.00    161 SARCEE 4    240.00 06  0.15927   188.0  449.0 OPEN 155 [BENALTO4
 240.00] TO 161 [SARCEE 4    240.00] CKT 28
  1639.1    152 RED DEE4    240.00  99700 INNISFAIL_NE240.00 29  0.17043   201.7  481.0 OPEN 152 [RED DEE4
 240.00] TO 988 [CROSSF T    240.00] CKT 01
  1640.8    155 BENALTO4    240.00    161 SARCEE 4    240.00 28  0.15926   187.7  449.0 OPEN 155 [BENALTO4
 240.00] TO 161 [SARCEE 4    240.00] CKT 06
  1649.8    155 BENALTO4    240.00    161 SARCEE 4    240.00 06  0.16308   180.0  449.0
------------------------------------------------------------                                                  OPEN 155 [BENALTO4
240.00] TO 9000 [DIDSBURY_NEW240.00] CKT 18
  1652.3    155 BENALTO4    240.00    161 SARCEE 4    240.00 28  0.16306   179.6  449.0
------------------------------------------------------------                                                  OPEN 155 [BENALTO4
240.00] TO 9000 [DIDSBURY_NEW240.00] CKT 18
  1688.4    123 DIDSBURY    138.00    982 MADDEN T    138.00 80  0.03594    61.3  122.0 OPEN 155 [BENALTO4
 240.00] TO 161 [SARCEE 4    240.00] CKT 06
  1689.0    123 DIDSBURY    138.00    982 MADDEN T    138.00 80  0.03594    61.3  122.0 OPEN 155 [BENALTO4
 240.00] TO 161 [SARCEE 4    240.00] CKT 28
  1690.3    155 BENALTO4    240.00    161 SARCEE 4    240.00 06  0.16505   170.0  449.0
------------------------------------------------------------                                                  OPEN 9000
[DIDSBURY_NEW240.00] TO 187 [BEDDING1    240.00] CKT 18
  1692.8    155 BENALTO4    240.00    161 SARCEE 4    240.00 28  0.16503   169.6  449.0
------------------------------------------------------------                                                  OPEN 9000
[DIDSBURY_NEW240.00] TO 187 [BEDDING1    240.00] CKT 18
  1697.3    123 DIDSBURY    138.00    982 MADDEN T    138.00 80  0.03621    60.5  122.0
------------------------------------------------------------                                                  OPEN 99700
[INNISFAIL_NE240.00] TO 160 [JANET  4    240.00] CKT 29
  1702.2    107 SUNDRE 7    138.00    370 SHELL C7    138.00 19 -0.04097   -50.3  120.0
------------------------------------------------------------                                                  OPEN 152 [RED DEE4
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240.00] TO 99700 [INNISFAIL_NE240.00] CKT 29
  1702.6    152 RED DEE4    240.00    988 CROSSF T    240.00 01  0.14708   157.6  408.0 OPEN 123 [DIDSBURY
 138.00] TO 982 [MADDEN T    138.00] CKT 80
  1709.6    155 BENALTO4    240.00    135 SUNDANC4    240.00 26 -0.17023  -175.0  466.0 OPEN 155 [BENALTO4
 240.00] TO 420 [KEEPHIL4    240.00] CKT 90
  1709.6    135 SUNDANC4    240.00    155 BENALTO4    240.00 26  0.17023   175.0  466.0 OPEN 155 [BENALTO4
 240.00] TO 420 [KEEPHIL4    240.00] CKT 90
  1712.9    135 SUNDANC4    240.00    155 BENALTO4    240.00 26  0.17005   174.7  466.0 OPEN 155 [BENALTO4
 240.00] TO 420 [KEEPHIL4    240.00] CKT 03
  1712.9    155 BENALTO4    240.00    135 SUNDANC4    240.00 26 -0.17005  -174.7  466.0 OPEN 155 [BENALTO4
 240.00] TO 420 [KEEPHIL4    240.00] CKT 03
  1714.8    155 BENALTO4    240.00    135 SUNDANC4    240.00 22 -0.16993  -174.6  466.0 OPEN 155 [BENALTO4
 240.00] TO 420 [KEEPHIL4    240.00] CKT 90
  1714.8    135 SUNDANC4    240.00    155 BENALTO4    240.00 22  0.16993   174.6  466.0 OPEN 155 [BENALTO4
 240.00] TO 420 [KEEPHIL4    240.00] CKT 90
  1715.8    128 ELLERSLI    240.00  99500 PONOKA_NEW  240.00 10  0.20523   113.9  466.0 OPEN 147 [GAETZ  4
 240.00] TO 81 [BIGSTON4    240.00] CKT 14
  1718.1    135 SUNDANC4    240.00    155 BENALTO4    240.00 22  0.16975   174.4  466.0 OPEN 155 [BENALTO4
 240.00] TO 420 [KEEPHIL4    240.00] CKT 03
  1718.1    155 BENALTO4    240.00    135 SUNDANC4    240.00 22 -0.16975  -174.4  466.0 OPEN 155 [BENALTO4
 240.00] TO 420 [KEEPHIL4    240.00] CKT 03
  1719.0    155 BENALTO4    240.00    135 SUNDANC4    240.00 26 -0.17782  -160.3  466.0 OPEN 147 [GAETZ  4
 240.00] TO 81 [BIGSTON4    240.00] CKT 14
  1719.0    135 SUNDANC4    240.00    155 BENALTO4    240.00 26  0.17782   160.3  466.0 OPEN 147 [GAETZ  4
 240.00] TO 81 [BIGSTON4    240.00] CKT 14
  1719.2    135 SUNDANC4    240.00    155 BENALTO4    240.00 26  0.17566   164.0  466.0
-------------------------------------------------------------------                    OPEN 152 [RED DEE4
240.00] TO 99500 [PONOKA_NEW  240.00] CKT 10
  1719.2    155 BENALTO4    240.00    135 SUNDANC4    240.00 26 -0.17566  -164.0  466.0
-------------------------------------------------------------------                    OPEN 152 [RED DEE4
240.00] TO 99500 [PONOKA_NEW  240.00] CKT 10
  1721.5    152 RED DEE4    240.00    988 CROSSF T    240.00 01  0.14690   155.1  408.0 OPEN 155 [BENALTO4
 240.00] TO 135 [SUNDANC4    240.00] CKT 26
  1721.6*   152 RED DEE4    240.00    988 CROSSF T    240.00 01  0.14689   155.1  408.0 OPEN 155 [BENALTO4
 240.00] TO 135 [SUNDANC4    240.00] CKT 22
  1722.3    128 ELLERSLI    240.00     81 BIGSTON4    240.00 14  0.18587   160.9  481.0
-------------------------------------------------------------------                    OPEN 152 [RED DEE4
240.00] TO 99500 [PONOKA_NEW  240.00] CKT 10
  1724.0    155 BENALTO4    240.00    135 SUNDANC4    240.00 22 -0.17751  -160.0  466.0 OPEN 147 [GAETZ  4
 240.00] TO 81 [BIGSTON4    240.00] CKT 14
  1724.0    135 SUNDANC4    240.00    155 BENALTO4    240.00 22  0.17751   160.0  466.0 OPEN 147 [GAETZ  4
 240.00] TO 81 [BIGSTON4    240.00] CKT 14
  1724.2    155 BENALTO4    240.00    135 SUNDANC4    240.00 22 -0.17535  -163.7  466.0
-------------------------------------------------------------------                    OPEN 152 [RED DEE4
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240.00] TO 99500 [PONOKA_NEW  240.00] CKT 10
  1724.2    135 SUNDANC4    240.00    155 BENALTO4    240.00 22  0.17535   163.7  466.0
------------------------------------------------------------------
                                                                                  OPEN 152 [RED DEE4
240.00] TO 99500 [PONOKA_NEW  240.00] CKT 10
  1731.3    152 RED DEE4    240.00  99700 INNISFAIL_NE240.00 29  0.16440   196.4  481.0 OPEN 152 [RED DEE4
 240.00] TO 160 [JANET  4    240.00] CKT 25
  1767.4    101 COOKING7    138.00     65 BARDO  7    138.00 74  0.01899    51.4   85.0 OPEN 93 [WETASKI7
138.00] TO 899 [TRUE W T    138.00] CKT 29
  1767.8    124 HARMATT7    138.00    957 166L JNC    138.00 66  0.04097     5.6   78.0
------------------------------------------------------------------
                                                                                  OPEN 152 [RED DEE4
240.00] TO 99700 [INNISFAIL_NE240.00] CKT 29
  1777.0    101 COOKING7    138.00     65 BARDO  7    138.00 74  0.01899    51.2   85.0 OPEN 94 [ERVICK 7
138.00] TO 899 [TRUE W T    138.00] CKT 29
  1777.9     68 N HOLDE7    138.00     65 BARDO  7    138.00 74 -0.03007   -31.5   85.0 OPEN 147 [GAETZ  4
 240.00] TO 81 [BIGSTON4    240.00] CKT 14
  1807.2    123 DIDSBURY    138.00   9000 DIDSBURY_NEW240.00 T1  0.10181    16.0  200.0
------------------------------------------------------------------
                                                                                   OPEN 155 [BENALTO4
240.00] TO 9000 [DIDSBURY_NEW240.00] CKT 18
  1818.3    123 DIDSBURY    138.00    982 MADDEN T    138.00 80  0.03462    59.0  122.0 OPEN 152 [RED DEE4
 240.00] TO 988 [CROSSF T    240.00] CKT 01
  1833.1     20 EDSON  7    138.00     39 CYNTHIA7    138.00 02  0.03583    19.3   85.0 OPEN 155 [BENALTO4
 240.00] TO 135 [SUNDANC4    240.00] CKT 26
  1834.8     20 EDSON  7    138.00     39 CYNTHIA7    138.00 02  0.03581    19.3   85.0 OPEN 155 [BENALTO4
 240.00] TO 135 [SUNDANC4    240.00] CKT 22
  1842.3    152 RED DEE4    240.00  99500 PONOKA_NEW  240.00 10 -0.20523   -87.9  466.0 OPEN 147 [GAETZ  4
 240.00] TO 81 [BIGSTON4    240.00] CKT 14
  1858.8    155 BENALTO4    240.00    135 SUNDANC4    240.00 26 -0.16201  -164.8  466.0 OPEN 155 [BENALTO4
 240.00] TO 995 [W.GRN TP    240.00] CKT 95
  1858.8    135 SUNDANC4    240.00    155 BENALTO4    240.00 26  0.16201   164.8  466.0 OPEN 155 [BENALTO4
 240.00] TO 995 [W.GRN TP    240.00] CKT 95
  1864.3    155 BENALTO4    240.00    135 SUNDANC4    240.00 22 -0.16173  -164.5  466.0 OPEN 155 [BENALTO4
 240.00] TO 995 [W.GRN TP    240.00] CKT 95
  1864.3    135 SUNDANC4    240.00    155 BENALTO4    240.00 22  0.16173   164.5  466.0 OPEN 155 [BENALTO4
 240.00] TO 995 [W.GRN TP    240.00] CKT 95
  1865.1    117 RED DE A    138.00    118 RED DE B    138.00 1   0.04239    41.9  121.0 OPEN 147 [GAETZ  4
 240.00] TO 152 [RED DEE4    240.00] CKT 14
  1894.2    155 BENALTO4    240.00    135 SUNDANC4    240.00 26 -0.16188  -159.4  466.0 OPEN 147 [GAETZ  4
 240.00] TO 152 [RED DEE4    240.00] CKT 14
  1894.2    135 SUNDANC4    240.00    155 BENALTO4    240.00 26  0.16188   159.4  466.0 OPEN 147 [GAETZ  4
 240.00] TO 152 [RED DEE4    240.00] CKT 14
  1895.4    123 DIDSBURY    138.00    957 166L JNC    138.00 66 -0.04097    -3.3   81.0
------------------------------------------------------------------
                                                                                  OPEN 152 [RED DEE4
240.00] TO 99700 [INNISFAIL_NE240.00] CKT 29
  1899.7    155 BENALTO4    240.00    135 SUNDANC4    240.00 22 -0.16160  -159.0  466.0 OPEN 147 [GAETZ  4
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 240.00] TO 152 [RED DEE4    240.00] CKT 14
  1899.7    135 SUNDANC4    240.00    155 BENALTO4    240.00 22  0.16160   159.0  466.0 OPEN 147 [GAETZ  4
 240.00] TO 152 [RED DEE4    240.00] CKT 14
  1908.5    147 GAETZ  4    240.00    152 RED DEE4    240.00 14  0.19439   128.0  499.0
-------------------------------------------------------------                          OPEN 152 [RED DEE4
240.00] TO 99500 [PONOKA_NEW  240.00] CKT 10
  1909.9    123 DIDSBURY    138.00    982 MADDEN T    138.00 80  0.03349    58.0  122.0 OPEN 152 [RED DEE4
 240.00] TO 160 [JANET  4    240.00] CKT 25
  1926.6    128 ELLERSLI    240.00  99500 PONOKA_NEW  240.00 10  0.17844   122.2  466.0 OPEN 155 [BENALTO4
 240.00] TO 135 [SUNDANC4    240.00] CKT 26
  1926.8    155 BENALTO4    240.00    161 SARCEE 4    240.00 06  0.14523   169.2  449.0 OPEN 152 [RED DEE4
 240.00] TO 988 [CROSSF T    240.00] CKT 01
  1927.4    128 ELLERSLI    240.00  99500 PONOKA_NEW  240.00 10  0.17839   122.2  466.0 OPEN 155 [BENALTO4
 240.00] TO 135 [SUNDANC4    240.00] CKT 22
  1929.6    155 BENALTO4    240.00    161 SARCEE 4    240.00 28  0.14522   168.8  449.0 OPEN 152 [RED DEE4
 240.00] TO 988 [CROSSF T    240.00] CKT 01
  1930.2    152 RED DEE4    240.00  99700 INNISFAIL_NE240.00 29  0.15310   185.5  481.0 OPEN 155 [BENALTO4
 240.00] TO 161 [SARCEE 4    240.00] CKT 06
  1930.6    152 RED DEE4    240.00  99700 INNISFAIL_NE240.00 29  0.15310   185.4  481.0 OPEN 155 [BENALTO4
 240.00] TO 161 [SARCEE 4    240.00] CKT 28
  1966.3    128 ELLERSLI    240.00  99500 PONOKA_NEW  240.00 10  0.17420   123.5  466.0 OPEN 155 [BENALTO4
 240.00] TO 420 [KEEPHIL4    240.00] CKT 90
  1970.2    128 ELLERSLI    240.00  99500 PONOKA_NEW  240.00 10  0.17400   123.2  466.0 OPEN 155 [BENALTO4
 240.00] TO 420 [KEEPHIL4    240.00] CKT 03
  1975.7    120 INNISFA7    138.00    121 OLDS   7    138.00 80  0.03856    45.8  122.0
-------------------------------------------------------------                          OPEN 99700
[INNISFAIL_NE240.00] TO 160 [JANET  4    240.00] CKT 29
  1979.7    135 SUNDANC4    240.00    155 BENALTO4    240.00 26  0.15631   156.5  466.0
-------------------------------------------------------------                          OPEN 152 [RED DEE4
240.00] TO 99700 [INNISFAIL_NE240.00] CKT 29
  1979.7    155 BENALTO4    240.00    135 SUNDANC4    240.00 26 -0.15631  -156.5  466.0
-------------------------------------------------------------                          OPEN 152 [RED DEE4
240.00] TO 99700 [INNISFAIL_NE240.00] CKT 29
  1983.6     81 BIGSTON4    240.00    147 GAETZ  4    240.00 14  0.21641    69.7  499.0
-------------------------------------------------------------                          OPEN 152 [RED DEE4
240.00] TO 99500 [PONOKA_NEW  240.00] CKT 10
  1985.3    135 SUNDANC4    240.00    155 BENALTO4    240.00 22  0.15604   156.2  466.0
-------------------------------------------------------------                          OPEN 152 [RED DEE4
240.00] TO 99700 [INNISFAIL_NE240.00] CKT 29
  1985.3    155 BENALTO4    240.00    135 SUNDANC4    240.00 22 -0.15604  -156.2  466.0
-------------------------------------------------------------                          OPEN 152 [RED DEE4
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240.00] TO 99700 [INNISFAIL_NE240.00] CKT 29
  1986.5    155 BENALTO4    240.00    135 SUNDANC4    240.00 26 -0.15609  -155.9  466.0 OPEN 152 [RED DEE4
 240.00] TO 988 [CROSSF T    240.00] CKT 01
  1986.5    135 SUNDANC4    240.00    155 BENALTO4    240.00 26  0.15609   155.9  466.0 OPEN 152 [RED DEE4
 240.00] TO 988 [CROSSF T    240.00] CKT 01
  1989.5     25 ENTWIST8    69.000     28 MOON LA8    69.000 29  0.00891    11.3   29.0 OPEN 155 [BENALTO4
 240.00] TO 135 [SUNDANC4    240.00] CKT 26
  1991.1     25 ENTWIST8    69.000     28 MOON LA8    69.000 29  0.00891    11.3   29.0 OPEN 155 [BENALTO4
 240.00] TO 135 [SUNDANC4    240.00] CKT 22
  1992.2    135 SUNDANC4    240.00    155 BENALTO4    240.00 22  0.15581   155.6  466.0 OPEN 152 [RED DEE4
 240.00] TO 988 [CROSSF T    240.00] CKT 01
  1992.2    155 BENALTO4    240.00    135 SUNDANC4    240.00 22 -0.15581  -155.6  466.0 OPEN 152 [RED DEE4
 240.00] TO 988 [CROSSF T    240.00] CKT 01
  1992.2    155 BENALTO4    240.00    161 SARCEE 4    240.00 06  0.14193   166.3  449.0 OPEN 152 [RED DEE4
 240.00] TO 160 [JANET  4    240.00] CKT 25
  1994.6*   155 BENALTO4    240.00    135 SUNDANC4    240.00 26 -0.15565  -155.5  466.0 OPEN 152 [RED DEE4
 240.00] TO 160 [JANET  4    240.00] CKT 25
  1994.6*   135 SUNDANC4    240.00    155 BENALTO4    240.00 26  0.15565   155.5  466.0 OPEN 152 [RED DEE4
 240.00] TO 160 [JANET  4    240.00] CKT 25
  1995.0    128 ELLERSLI    240.00     81 BIGSTON4    240.00 14  0.16123   159.3  481.0 OPEN 155 [BENALTO4
 240.00] TO 135 [SUNDANC4    240.00] CKT 26
  1995.2    155 BENALTO4    240.00    161 SARCEE 4    240.00 28  0.14191   165.9  449.0 OPEN 152 [RED DEE4
 240.00] TO 160 [JANET  4    240.00] CKT 25
  1995.9    128 ELLERSLI    240.00     81 BIGSTON4    240.00 14  0.16119   159.3  481.0 OPEN 155 [BENALTO4
 240.00] TO 135 [SUNDANC4    240.00] CKT 22
  1999.3    128 ELLERSLI    240.00  99500 PONOKA_NEW  240.00 10  0.17595   114.2  466.0 OPEN 147 [GAETZ  4
 240.00] TO 152 [RED DEE4    240.00] CKT 14
  2000.3    155 BENALTO4    240.00    161 SARCEE 4    240.00 06  0.14099   167.0  449.0
-------------------------------------------------------------------                  OPEN 152 [RED DEE4
240.00] TO 99700 [INNISFAIL_NE240.00] CKT 29
  2000.3*   135 SUNDANC4    240.00    155 BENALTO4    240.00 22  0.15538   155.2  466.0 OPEN 152 [RED DEE4
 240.00] TO 160 [JANET  4    240.00] CKT 25
  2000.3*   155 BENALTO4    240.00    135 SUNDANC4    240.00 22 -0.15538  -155.2  466.0 OPEN 152 [RED DEE4
 240.00] TO 160 [JANET  4    240.00] CKT 25
  2003.2    155 BENALTO4    240.00    161 SARCEE 4    240.00 28  0.14097   166.6  449.0
-------------------------------------------------------------------                  OPEN 152 [RED DEE4
240.00] TO 99700 [INNISFAIL_NE240.00] CKT 29
  2005.4    128 ELLERSLI    240.00     81 BIGSTON4    240.00 14  0.15891   162.3  481.0 OPEN 155 [BENALTO4
 240.00] TO 420 [KEEPHIL4    240.00] CKT 90
  2009.5    128 ELLERSLI    240.00     81 BIGSTON4    240.00 14  0.15871   162.1  481.0 OPEN 155 [BENALTO4
 240.00] TO 420 [KEEPHIL4    240.00] CKT 03
  2016.9    155 BENALTO4    240.00    420 KEEPHIL4    240.00 90 -0.14216  -179.3  466.0 OPEN 155 [BENALTO4
 240.00] TO 135 [SUNDANC4    240.00] CKT 26
  2016.9    420 KEEPHIL4    240.00    155 BENALTO4    240.00 90  0.14216   179.3  466.0 OPEN 155 [BENALTO4
 240.00] TO 135 [SUNDANC4    240.00] CKT 26
  2018.0    155 BENALTO4    240.00    420 KEEPHIL4    240.00 90 -0.14211  -179.2  466.0 OPEN 155 [BENALTO4
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 240.00] TO 135 [SUNDANC4    240.00] CKT 22
  2018.0    420 KEEPHIL4    240.00    155 BENALTO4    240.00 90  0.14211   179.2  466.0 OPEN 155 [BENALTO4
 240.00] TO 135 [SUNDANC4    240.00] CKT 22
  2029.6    155 BENALTO4    240.00    161 SARCEE 4    240.00 06  0.14050   163.8  449.0
------------------------------------------------------------------                  OPEN 99700
[INNISFAIL_NE240.00] TO 160 [JANET  4    240.00] CKT 29
  2032.6    155 BENALTO4    240.00    161 SARCEE 4    240.00 28  0.14049   163.4  449.0
------------------------------------------------------------------                  OPEN 99700
[INNISFAIL_NE240.00] TO 160 [JANET  4    240.00] CKT 29
  2039.1    128 ELLERSLI    240.00  99500 PONOKA_NEW  240.00 10  0.17109   117.1  466.0 OPEN 152 [RED DEE4
 240.00] TO 155 [BENALTO4    240.00] CKT 00
  2045.5    420 KEEPHIL4    240.00    155 BENALTO4    240.00 03  0.14093   177.7  466.0 OPEN 155 [BENALTO4
 240.00] TO 135 [SUNDANC4    240.00] CKT 26
  2045.5    155 BENALTO4    240.00    420 KEEPHIL4    240.00 03 -0.14093  -177.7  466.0 OPEN 155 [BENALTO4
 240.00] TO 135 [SUNDANC4    240.00] CKT 26
  2046.6    155 BENALTO4    240.00    420 KEEPHIL4    240.00 03 -0.14088  -177.7  466.0 OPEN 155 [BENALTO4
 240.00] TO 135 [SUNDANC4    240.00] CKT 22
  2046.6    420 KEEPHIL4    240.00    155 BENALTO4    240.00 03  0.14088   177.7  466.0 OPEN 155 [BENALTO4
 240.00] TO 135 [SUNDANC4    240.00] CKT 22
  2061.6    155 BENALTO4    240.00    161 SARCEE 4    240.00 06  0.13858   163.3  449.0 OPEN 152 [RED DEE4
 240.00] TO 155 [BENALTO4    240.00] CKT 00
  2064.7    155 BENALTO4    240.00    161 SARCEE 4    240.00 28  0.13856   162.9  449.0 OPEN 152 [RED DEE4
 240.00] TO 155 [BENALTO4    240.00] CKT 00
  2066.6    420 KEEPHIL4    240.00    155 BENALTO4    240.00 90  0.14377   168.9  466.0
------------------------------------------------------------------                  OPEN 152 [RED DEE4
240.00] TO 99500 [PONOKA_NEW  240.00] CKT 10
  2066.6    155 BENALTO4    240.00    420 KEEPHIL4    240.00 90 -0.14377  -168.9  466.0
------------------------------------------------------------------                  OPEN 152 [RED DEE4
240.00] TO 99500 [PONOKA_NEW  240.00] CKT 10
  2071.1    123 DIDSBURY    138.00   9000 DIDSBURY_NEW240.00 T1 -0.05292   -90.4  200.0
------------------------------------------------------------------                   OPEN 9000
[DIDSBURY_NEW240.00] TO 187 [BEDDING1    240.00] CKT 18
  2072.0    152 RED DEE4    240.00  99500 PONOKA_NEW  240.00 10 -0.17844   -96.3  466.0 OPEN 155 [BENALTO4
 240.00] TO 135 [SUNDANC4    240.00] CKT 26
  2072.9    152 RED DEE4    240.00  99500 PONOKA_NEW  240.00 10 -0.17839   -96.2  466.0 OPEN 155 [BENALTO4
 240.00] TO 135 [SUNDANC4    240.00] CKT 22
  2075.8    155 BENALTO4    240.00    420 KEEPHIL4    240.00 90 -0.14514  -164.7  466.0 OPEN 147 [GAETZ  4
 240.00] TO 81 [BIGSTON4    240.00] CKT 14
  2075.8    420 KEEPHIL4    240.00    155 BENALTO4    240.00 90  0.14514   164.7  466.0 OPEN 147 [GAETZ  4
 240.00] TO 81 [BIGSTON4    240.00] CKT 14
  2092.8    107 SUNDRE 7    138.00    370 SHELL C7    138.00 19 -0.03504   -46.7  120.0
------------------------------------------------------------------                  OPEN 99700
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[INNISFAIL_NE240.00] TO 120 [INNISFA7    138.00] CKT T1
  2094.8    420 KEEPHIL4    240.00    155 BENALTO4    240.00 03  0.14253   167.4  466.0
-------------------------------------------------------------------
                                                                          OPEN 152 [RED DEE4
240.00] TO 99500 [PONOKA_NEW  240.00] CKT 10
  2094.8    155 BENALTO4    240.00    420 KEEPHIL4    240.00 03 -0.14253  -167.4  466.0
-------------------------------------------------------------------
                                                                          OPEN 152 [RED DEE4
240.00] TO 99500 [PONOKA_NEW  240.00] CKT 10
  2103.4     68 N HOLDE7    138.00     65 BARDO  7    138.00 74 -0.02546   -31.5   85.0
-------------------------------------------------------------------
                                                                          OPEN 152 [RED DEE4
240.00] TO 99500 [PONOKA_NEW  240.00] CKT 10
  2103.8    155 BENALTO4    240.00    420 KEEPHIL4    240.00 03 -0.14389  -163.3  466.0 OPEN 147 [GAETZ  4
 240.00] TO 81 [BIGSTON4    240.00] CKT 14
  2103.8    420 KEEPHIL4    240.00    155 BENALTO4    240.00 03  0.14389   163.3  466.0 OPEN 147 [GAETZ  4
 240.00] TO 81 [BIGSTON4    240.00] CKT 14
  2113.8    101 COOKING7    138.00     65 BARDO  7    138.00 74  0.02385    34.6   85.0
-------------------------------------------------------------------
                                                                          OPEN 152 [RED DEE4
240.00] TO 99500 [PONOKA_NEW  240.00] CKT 10
  2113.8    152 RED DEE4    240.00    160 JANET  4    240.00 25  0.15028   163.3  481.0 OPEN 152 [RED DEE4
 240.00] TO 988 [CROSSF T    240.00] CKT 01
  2115.3    152 RED DEE4    240.00  99500 PONOKA_NEW  240.00 10 -0.17420   -97.5  466.0 OPEN 155 [BENALTO4
 240.00] TO 420 [KEEPHIL4    240.00] CKT 90
  2117.8    128 ELLERSLI    240.00     81 BIGSTON4    240.00 14  0.15426   154.3  481.0 OPEN 152 [RED DEE4
 240.00] TO 155 [BENALTO4    240.00] CKT 00
  2119.3    152 RED DEE4    240.00  99500 PONOKA_NEW  240.00 10 -0.17400   -97.2  466.0 OPEN 155 [BENALTO4
 240.00] TO 420 [KEEPHIL4    240.00] CKT 03
  2125.8    152 RED DEE4    240.00  99700 INNISFAIL_NE240.00 29  0.14606   170.5  481.0
-------------------------------------------------------------------
                                                                           OPEN 9000
[DIDSBURY_NEW240.00] TO 187 [BEDDING1    240.00] CKT 18
  2137.0    152 RED DEE4    240.00  99700 INNISFAIL_NE240.00 29  0.14344   174.5  481.0 OPEN 107 [SUNDRE 7
 138.00] TO 370 [SHELL C7    138.00] CKT 19
  2146.8    152 RED DEE4    240.00  99500 PONOKA_NEW  240.00 10 -0.17595   -88.3  466.0 OPEN 147 [GAETZ  4
 240.00] TO 152 [RED DEE4    240.00] CKT 14
  2147.1    101 COOKING7    138.00     65 BARDO  7    138.00 74  0.01899    44.2   85.0 OPEN 70 [CAMROSE7
138.00] TO 94 [ERVICK 7    138.00] CKT 29
  2164.5    128 ELLERSLI    240.00  99500 PONOKA_NEW  240.00 10  0.16547   107.8  466.0
-------------------------------------------------------------------
                                                                           OPEN 155 [BENALTO4
240.00] TO 9000 [DIDSBURY_NEW240.00] CKT 18
  2169.5    124 HARMATT7    138.00    957 166L JNC    138.00 66  0.03504     2.0   78.0
-------------------------------------------------------------------
                                                                          OPEN 99700
[INNISFAIL_NE240.00] TO 120 [INNISFA7    138.00] CKT T1
  2176.8    152 RED DEE4    240.00  99700 INNISFAIL_NE240.00 29  0.14344   168.8  481.0 OPEN 107 [SUNDRE 7
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 138.00] TO 883 [EAGLE TP    138.00] CKT 19
  2184.8    152 RED DEE4    240.00    160 JANET  4    240.00 25  0.14569   162.7  481.0
-------------------------------------------------------------                                  OPEN 152 [RED DEE4
240.00] TO 99700 [INNISFAIL_NE240.00] CKT 29
  2185.5    107 SUNDRE 7    138.00    370 SHELL C7    138.00 19 -0.03504   -43.4  120.0 OPEN 120 [INNISFA7
 138.00] TO 121 [OLDS   7    138.00] CKT 80
  2189.0    107 SUNDRE 7    138.00    370 SHELL C7    138.00 19 -0.03516   -43.0  120.0 OPEN 155 [BENALTO4
 240.00] TO 161 [SARCEE 4    240.00] CKT 06
  2189.4    107 SUNDRE 7    138.00    370 SHELL C7    138.00 19 -0.03516   -43.0  120.0 OPEN 155 [BENALTO4
 240.00] TO 161 [SARCEE 4    240.00] CKT 28
  2190.7    152 RED DEE4    240.00  99500 PONOKA_NEW  240.00 10 -0.17109   -91.2  466.0 OPEN 152 [RED DEE4
 240.00] TO 155 [BENALTO4    240.00] CKT 00
  2191.9    152 RED DEE4    240.00  99700 INNISFAIL_NE240.00 29  0.14344   166.6  481.0 OPEN 124 [HARMATT7
 138.00] TO 883 [EAGLE TP    138.00] CKT 19
  2198.6    147 GAETZ  4    240.00    152 RED DEE4    240.00 14  0.16824   129.1  499.0 OPEN 152 [RED DEE4
 240.00] TO 155 [BENALTO4    240.00] CKT 00
  2215.1*   152 RED DEE4    240.00  99700 INNISFAIL_NE240.00 29  0.14344   163.3  481.0 OPEN 124 [HARMATT7
 138.00] TO 957 [166L JNC    138.00] CKT 66
  2217.1    128 ELLERSLI    240.00  99500 PONOKA_NEW  240.00 10  0.16329   104.0  466.0
-------------------------------------------------------------                                   OPEN 9000
[DIDSBURY_NEW240.00] TO 187 [BEDDING1    240.00] CKT 18
  2217.8*   128 ELLERSLI    240.00  99500 PONOKA_NEW  240.00 10  0.16167   107.5  466.0 OPEN 155 [BENALTO4
 240.00] TO 995 [W.GRN TP    240.00] CKT 95
  2221.3    152 RED DEE4    240.00    160 JANET  4    240.00 25  0.15030   147.1  481.0
-------------------------------------------------------------                                   OPEN 9000
[DIDSBURY_NEW240.00] TO 187 [BEDDING1    240.00] CKT 18
  2227.7    128 ELLERSLI    240.00     81 BIGSTON4    240.00 14  0.15001   146.8  481.0
-------------------------------------------------------------                                  OPEN 155 [BENALTO4
240.00] TO 9000 [DIDSBURY_NEW240.00] CKT 18
  2233.0     81 BIGSTON4    240.00    147 GAETZ  4    240.00 14  0.19183    70.7  499.0 OPEN 155 [BENALTO4
 240.00] TO 135 [SUNDANC4    240.00] CKT 26
  2234.0     81 BIGSTON4    240.00    147 GAETZ  4    240.00 14  0.19177    70.6  499.0 OPEN 155 [BENALTO4
 240.00] TO 135 [SUNDANC4    240.00] CKT 22
  2235.3    147 GAETZ  4    240.00    152 RED DEE4    240.00 14  0.16729   125.1  499.0 OPEN 155 [BENALTO4
 240.00] TO 135 [SUNDANC4    240.00] CKT 26
  2236.2    147 GAETZ  4    240.00    152 RED DEE4    240.00 14  0.16725   125.0  499.0 OPEN 155 [BENALTO4
 240.00] TO 135 [SUNDANC4    240.00] CKT 22
  2245.4    155 BENALTO4    240.00    161 SARCEE 4    240.00 06  0.13225   152.0  449.0
-------------------------------------------------------------                                  OPEN 152 [RED DEE4
240.00] TO 99500 [PONOKA_NEW  240.00] CKT 10
  2248.6    155 BENALTO4    240.00    161 SARCEE 4    240.00 28  0.13224   151.6  449.0
-------------------------------------------------------------                                  OPEN 152 [RED DEE4
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240.00] TO 99500 [PONOKA_NEW  240.00] CKT 10
  2255.5*   155 BENALTO4    240.00    161 SARCEE 4    240.00 06  0.13219   150.9  449.0 OPEN 147 [GAETZ  4
 240.00] TO 81 [BIGSTON4    240.00] CKT 14
  2258.4    107 SUNDRE 7    138.00    883 EAGLE TP    138.00 19  0.04097    27.5  120.0
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                                                                                          OPEN 152 [RED DEE4
240.00] TO 99700 [INNISFAIL_NE240.00] CKT 29
  2258.6*   155 BENALTO4    240.00    161 SARCEE 4    240.00 28  0.13217   150.5  449.0 OPEN 147 [GAETZ  4
 240.00] TO 81 [BIGSTON4    240.00] CKT 14
  2260.3  99700 INNISFAIL_NE240.00    160 JANET  4    240.00 29  0.15177   138.0  481.0
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                                                                                           OPEN 9000
[DIDSBURY_NEW240.00] TO 187 [BEDDING1    240.00] CKT 18
  2262.2    124 HARMATT7    138.00    957 166L JNC    138.00 66  0.03504    -1.3   78.0 OPEN 120 [INNISFA7
 138.00] TO 121 [OLDS   7    138.00] CKT 80
  2264.1    107 SUNDRE 7    138.00    370 SHELL C7    138.00 19 -0.03452   -41.8  120.0 OPEN 152 [RED DEE4
 240.00] TO 988 [CROSSF T    240.00] CKT 01
  2265.5    124 HARMATT7    138.00    957 166L JNC    138.00 66  0.03516    -1.6   78.0 OPEN 155 [BENALTO4
 240.00] TO 161 [SARCEE 4    240.00] CKT 06
  2265.9    124 HARMATT7    138.00    957 166L JNC    138.00 66  0.03516    -1.7   78.0 OPEN 155 [BENALTO4
 240.00] TO 161 [SARCEE 4    240.00] CKT 28
  2269.5    107 SUNDRE 7    138.00    370 SHELL C7    138.00 19 -0.03504   -40.5  120.0 OPEN 121 [OLDS   7
 138.00] TO 123 [DIDSBURY    138.00] CKT 80
  2271.8    123 DIDSBURY    138.00    982 MADDEN T    138.00 80  0.02987    54.1  122.0 OPEN 152 [RED DEE4
 240.00] TO 155 [BENALTO4    240.00] CKT 00
  2285.0    128 ELLERSLI    240.00     81 BIGSTON4    240.00 14  0.14784   143.2  481.0
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                                                                                           OPEN 9000
[DIDSBURY_NEW240.00] TO 187 [BEDDING1    240.00] CKT 18
  2287.1     68 N HOLDE7    138.00     65 BARDO  7    138.00 74 -0.02341   -31.5   85.0 OPEN 147 [GAETZ  4
 240.00] TO 152 [RED DEE4    240.00] CKT 14
  2287.4    128 ELLERSLI    240.00     81 BIGSTON4    240.00 14  0.14634   146.3  481.0 OPEN 155 [BENALTO4
 240.00] TO 995 [W.GRN TP    240.00] CKT 95
  2291.1    147 GAETZ  4    240.00    152 RED DEE4    240.00 14  0.16307   125.4  499.0 OPEN 155 [BENALTO4
 240.00] TO 420 [KEEPHIL4    240.00] CKT 90
  2294.8    147 GAETZ  4    240.00    152 RED DEE4    240.00 14  0.16290   125.2  499.0 OPEN 155 [BENALTO4
 240.00] TO 420 [KEEPHIL4    240.00] CKT 03
  2294.9     81 BIGSTON4    240.00    147 GAETZ  4    240.00 14  0.18646    71.1  499.0 OPEN 155 [BENALTO4
 240.00] TO 420 [KEEPHIL4    240.00] CKT 90
  2299.1     81 BIGSTON4    240.00    147 GAETZ  4    240.00 14  0.18625    70.8  499.0 OPEN 155 [BENALTO4
 240.00] TO 420 [KEEPHIL4    240.00] CKT 03
  2300.1*   128 ELLERSLI    240.00     81 BIGSTON4    240.00 14  0.14608   145.0  481.0 OPEN 155 [BENALTO4
 240.00] TO 161 [SARCEE 4    240.00] CKT 06
  2301.0    152 RED DEE4    240.00    160 JANET  4    240.00 25  0.14206   154.1  481.0
-------------------------------------------------------------------------------------------------------------
                                                                                          OPEN 99700
[INNISFAIL_NE240.00] TO 160 [JANET  4    240.00] CKT 29
  2302.1    147 GAETZ  4    240.00    152 RED DEE4    240.00 14  0.15598   139.9  499.0 OPEN 115 [S RED DE
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 138.00] TO 119 [N RED D7    138.00] CKT 80
  2310.4  99700 INNISFAIL_NE240.00    160 JANET  4    240.00 29  0.14362   149.2  481.0 OPEN 152 [RED DEE4
 240.00] TO 988 [CROSSF T    240.00] CKT 01
  2311.4    152 RED DEE4    240.00    160 JANET  4    240.00 25  0.14303   150.4  481.0
-------------------------------------------------------------                        OPEN 155 [BENALTO4
240.00] TO 9000 [DIDSBURY_NEW240.00] CKT 18
  2314.0    123 DIDSBURY    138.00    982 MADDEN T    138.00 80  0.03732    35.6  122.0
-------------------------------------------------------------                        OPEN 9000
[DIDSBURY_NEW240.00] TO 123 [DIDSBURY    138.00] CKT T1
  2315.6    155 BENALTO4    240.00    420 KEEPHIL4    240.00 90 -0.12845  -168.6  466.0 OPEN 155 [BENALTO4
 240.00] TO 995 [W.GRN TP    240.00] CKT 95
  2315.6    420 KEEPHIL4    240.00    155 BENALTO4    240.00 90  0.12845   168.6  466.0 OPEN 155 [BENALTO4
 240.00] TO 995 [W.GRN TP    240.00] CKT 95
  2315.9    152 RED DEE4    240.00    155 BENALTO4    240.00 00 -0.17601  -176.4  584.0
-------------------------------------------------------------                        OPEN 155 [BENALTO4
240.00] TO 9000 [DIDSBURY_NEW240.00] CKT 18
  2318.8    123 DIDSBURY    138.00    957 166L JNC    138.00 66 -0.03504     0.3   81.0
-------------------------------------------------------------                        OPEN 99700
[INNISFAIL_NE240.00] TO 120 [INNISFA7    138.00] CKT T1
  2321.4    152 RED DEE4    240.00  99500 PONOKA_NEW  240.00 10 -0.16547   -81.9  466.0
-------------------------------------------------------------                        OPEN 155 [BENALTO4
240.00] TO 9000 [DIDSBURY_NEW240.00] CKT 18
  2326.5    123 DIDSBURY    138.00    982 MADDEN T    138.00 80  0.02877    55.1  122.0 OPEN 205 [AMOCO R7
 138.00] TO 890 [AMOCO TP    138.00] CKT 19
  2338.0    107 SUNDRE 7    138.00    370 SHELL C7    138.00 19 -0.03373   -41.1  120.0 OPEN 152 [RED DEE4
 240.00] TO 160 [JANET  4    240.00] CKT 25
  2342.0    124 HARMATT7    138.00    957 166L JNC    138.00 66  0.03452    -2.8   78.0 OPEN 152 [RED DEE4
 240.00] TO 988 [CROSSF T    240.00] CKT 01
  2344.0*   123 DIDSBURY    138.00    982 MADDEN T    138.00 80  0.02877    54.6  122.0 OPEN 205 [AMOCO R7
 138.00] TO 257 [LIMESTO7    138.00] CKT 64
  2345.3    155 BENALTO4    240.00    420 KEEPHIL4    240.00 90 -0.12888  -163.7  466.0 OPEN 147 [GAETZ  4
 240.00] TO 152 [RED DEE4    240.00] CKT 14
  2345.3    420 KEEPHIL4    240.00    155 BENALTO4    240.00 90  0.12888   163.7  466.0 OPEN 147 [GAETZ  4
 240.00] TO 152 [RED DEE4    240.00] CKT 14
  2346.2    124 HARMATT7    138.00    957 166L JNC    138.00 66  0.03504    -4.2   78.0 OPEN 121 [OLDS   7
 138.00] TO 123 [DIDSBURY    138.00] CKT 80
  2347.3    155 BENALTO4    240.00    420 KEEPHIL4    240.00 03 -0.12734  -167.1  466.0 OPEN 155 [BENALTO4
 240.00] TO 995 [W.GRN TP    240.00] CKT 95
  2347.3    420 KEEPHIL4    240.00    155 BENALTO4    240.00 03  0.12734   167.1  466.0 OPEN 155 [BENALTO4
 240.00] TO 995 [W.GRN TP    240.00] CKT 95
  2376.0    152 RED DEE4    240.00  99500 PONOKA_NEW  240.00 10 -0.16329   -78.0  466.0
-------------------------------------------------------------                        OPEN 9000
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[DIDSBURY_NEW240.00] TO 187 [BEDDING1    240.00] CKT 18
  2376.9    155 BENALTO4    240.00    420 KEEPHIL4    240.00 03 -0.12776  -162.3  466.0 OPEN 147 [GAETZ  4
 240.00] TO 152 [RED DEE4    240.00] CKT 14
  2376.9    420 KEEPHIL4    240.00    155 BENALTO4    240.00 03  0.12776   162.3  466.0 OPEN 147 [GAETZ  4
 240.00] TO 152 [RED DEE4    240.00] CKT 14
  2378.3*   152 RED DEE4    240.00  99500 PONOKA_NEW  240.00 10 -0.16167   -81.5  466.0 OPEN 155 [BENALTO4
 240.00] TO 995 [W.GRN TP    240.00] CKT 95
  2379.9     68 N HOLDE7    138.00     65 BARDO  7    138.00 74 -0.02243   -31.6   85.0 OPEN 155 [BENALTO4
 240.00] TO 135 [SUNDANC4    240.00] CKT 26
  2381.0     68 N HOLDE7    138.00     65 BARDO  7    138.00 74 -0.02242   -31.6   85.0 OPEN 155 [BENALTO4
 240.00] TO 135 [SUNDANC4    240.00] CKT 22
  2384.7    147 GAETZ  4    240.00    152 RED DEE4    240.00 14  0.15598   127.0  499.0 OPEN 115 [S RED DE
 138.00] TO 117 [RED DE A    138.00] CKT 80
  2385.3     81 BIGSTON4    240.00    147 GAETZ  4    240.00 14  0.18252    63.6  499.0 OPEN 152 [RED DEE4
 240.00] TO 155 [BENALTO4    240.00] CKT 00
  2389.8    121 OLDS   7    138.00    123 DIDSBURY    138.00 80  0.03856    29.9  122.0
-------------------------------------------------------------                          OPEN 99700
[INNISFAIL_NE240.00] TO 160 [JANET  4    240.00] CKT 29
  2391.7*   107 SUNDRE 7    138.00    370 SHELL C7    138.00 19 -0.03349   -39.9  120.0 OPEN 147 [GAETZ  4
 240.00] TO 152 [RED DEE4    240.00] CKT 14
  2396.1     20 EDSON  7    138.00     39 CYNTHIA7    138.00 02  0.03038    12.2   85.0
-------------------------------------------------------------                          OPEN 152 [RED DEE4
240.00] TO 99500 [PONOKA_NEW  240.00] CKT 10
  2406.6     68 N HOLDE7    138.00     65 BARDO  7    138.00 74 -0.02201   -32.0   85.0 OPEN 155 [BENALTO4
 240.00] TO 420 [KEEPHIL4    240.00] CKT 90
  2410.6    101 COOKING7    138.00     65 BARDO  7    138.00 74  0.02093    34.5   85.0 OPEN 155 [BENALTO4
 240.00] TO 135 [SUNDANC4    240.00] CKT 26
  2411.5    123 DIDSBURY    138.00    957 166L JNC    138.00 66 -0.03504     3.5   81.0 OPEN 120 [INNISFA7
 138.00] TO 121 [OLDS   7    138.00] CKT 80
  2411.6    101 COOKING7    138.00     65 BARDO  7    138.00 74  0.02092    34.5   85.0 OPEN 155 [BENALTO4
 240.00] TO 135 [SUNDANC4    240.00] CKT 22
  2411.7     68 N HOLDE7    138.00     65 BARDO  7    138.00 74 -0.02198   -32.0   85.0 OPEN 155 [BENALTO4
 240.00] TO 420 [KEEPHIL4    240.00] CKT 03
  2414.3    123 DIDSBURY    138.00    957 166L JNC    138.00 66 -0.03516     3.9   81.0 OPEN 155 [BENALTO4
 240.00] TO 161 [SARCEE 4    240.00] CKT 06
  2414.7    123 DIDSBURY    138.00    957 166L JNC    138.00 66 -0.03516     3.9   81.0 OPEN 155 [BENALTO4
 240.00] TO 161 [SARCEE 4    240.00] CKT 28
  2416.5    120 INNISFA7    138.00  99700 INNISFAIL_NE240.00 T1 -0.05289   -72.2  200.0
-------------------------------------------------------------                           OPEN 155 [BENALTO4
240.00] TO 9000 [DIDSBURY_NEW240.00] CKT 18
  2417.7    124 HARMATT7    138.00    957 166L JNC    138.00 66  0.03373    -3.6   78.0 OPEN 152 [RED DEE4
 240.00] TO 160 [JANET  4    240.00] CKT 25
  2418.2    101 COOKING7    138.00     65 BARDO  7    138.00 74  0.02068    35.0   85.0 OPEN 155 [BENALTO4
 240.00] TO 420 [KEEPHIL4    240.00] CKT 90
  2420.9     68 N HOLDE7    138.00     65 BARDO  7    138.00 74 -0.02230   -31.0   85.0
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                                                        OPEN 155 [BENALTO4
240.00] TO 9000 [DIDSBURY_NEW240.00] CKT 18
  2420.9  99700 INNISFAIL_NE240.00    160 JANET  4    240.00 29  0.13879   145.0  481.0 OPEN 152 [RED DEE4
 240.00] TO 160 [JANET  4    240.00] CKT 25
  2421.2    147 GAETZ  4    240.00    152 RED DEE4    240.00 14  0.15868   114.8  499.0
------------------------------------------------------------
                                                        OPEN 155 [BENALTO4
240.00] TO 9000 [DIDSBURY_NEW240.00] CKT 18
  2423.0    101 COOKING7    138.00     65 BARDO  7    138.00 74  0.02065    35.0   85.0 OPEN 155 [BENALTO4
 240.00] TO 420 [KEEPHIL4    240.00] CKT 03
  2424.6    152 RED DEE4    240.00    160 JANET  4    240.00 25  0.13626   150.6  481.0 OPEN 155 [BENALTO4
 240.00] TO 161 [SARCEE 4    240.00] CKT 06
  2425.0    152 RED DEE4    240.00    160 JANET  4    240.00 25  0.13625   150.6  481.0 OPEN 155 [BENALTO4
 240.00] TO 161 [SARCEE 4    240.00] CKT 28
  2435.7     68 N HOLDE7    138.00     65 BARDO  7    138.00 74 -0.02248   -30.2   85.0
------------------------------------------------------------
                                                        OPEN 9000
[DIDSBURY_NEW240.00] TO 187 [BEDDING1    240.00] CKT 18
  2438.5*   147 GAETZ  4    240.00    152 RED DEE4    240.00 14  0.15880   111.8  499.0
------------------------------------------------------------
                                                        OPEN 9000
[DIDSBURY_NEW240.00] TO 187 [BEDDING1    240.00] CKT 18
  2469.8    124 HARMATT7    138.00    883 EAGLE TP    138.00 19 -0.04097   -18.8  120.0
------------------------------------------------------------
                                                        OPEN 152 [RED DEE4
240.00] TO 99700 [INNISFAIL_NE240.00] CKT 29
  2472.0*   124 HARMATT7    138.00    957 166L JNC    138.00 66  0.03349    -4.8   78.0 OPEN 147 [GAETZ  4
 240.00] TO 152 [RED DEE4    240.00] CKT 14
  2475.4    155 BENALTO4    240.00    420 KEEPHIL4    240.00 90 -0.12324  -160.9  466.0
------------------------------------------------------------
                                                        OPEN 152 [RED DEE4
240.00] TO 99700 [INNISFAIL_NE240.00] CKT 29
  2475.4    420 KEEPHIL4    240.00    155 BENALTO4    240.00 90  0.12324   160.9  466.0
------------------------------------------------------------
                                                        OPEN 152 [RED DEE4
240.00] TO 99700 [INNISFAIL_NE240.00] CKT 29
  2484.8    155 BENALTO4    240.00    420 KEEPHIL4    240.00 90 -0.12302  -160.3  466.0 OPEN 152 [RED DEE4
 240.00] TO 988 [CROSSF T    240.00] CKT 01
  2484.8    420 KEEPHIL4    240.00    155 BENALTO4    240.00 90  0.12302   160.3  466.0 OPEN 152 [RED DEE4
 240.00] TO 988 [CROSSF T    240.00] CKT 01
  2493.6    123 DIDSBURY    138.00    957 166L JNC    138.00 66 -0.03452     5.1   81.0 OPEN 152 [RED DEE4
 240.00] TO 988 [CROSSF T    240.00] CKT 01
  2495.4    123 DIDSBURY    138.00    957 166L JNC    138.00 66 -0.03504     6.5   81.0 OPEN 121 [OLDS   7
 138.00] TO 123 [DIDSBURY    138.00] CKT 80
  2497.5*   420 KEEPHIL4    240.00    155 BENALTO4    240.00 90  0.12257   159.9  466.0 OPEN 152 [RED DEE4
 240.00] TO 160 [JANET  4    240.00] CKT 25
  2497.5*   155 BENALTO4    240.00    420 KEEPHIL4    240.00 90 -0.12257  -159.9  466.0 OPEN 152 [RED DEE4
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 240.00] TO 160 [JANET  4    240.00] CKT 25
  2508.3    155 BENALTO4    240.00    420 KEEPHIL4    240.00 03 -0.12218  -159.5  466.0
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                                                                          OPEN 152 [RED DEE4
240.00] TO 99700 [INNISFAIL_NE240.00] CKT 29
  2508.3    420 KEEPHIL4    240.00    155 BENALTO4    240.00 03  0.12218   159.5  466.0
-------------------------------------------------------------------
                                                                          OPEN 152 [RED DEE4
240.00] TO 99700 [INNISFAIL_NE240.00] CKT 29
  2512.6    119 N RED D7    138.00    148 GAETZ  7    138.00 78 -0.04249   -73.2  180.0 OPEN 147 [GAETZ  4
 240.00] TO 152 [RED DEE4    240.00] CKT 14
  2512.6    119 N RED D7    138.00    148 GAETZ  7    138.00 68 -0.04249   -73.2  180.0 OPEN 147 [GAETZ  4
 240.00] TO 152 [RED DEE4    240.00] CKT 14
  2512.9    101 COOKING7    138.00     65 BARDO  7    138.00 74  0.02042    33.7   85.0
-------------------------------------------------------------------
                                                                           OPEN 155 [BENALTO4
240.00] TO 9000 [DIDSBURY_NEW240.00] CKT 18
  2514.5     81 BIGSTON4    240.00    147 GAETZ  4    240.00 14  0.17687    54.3  499.0
-------------------------------------------------------------------
                                                                           OPEN 155 [BENALTO4
240.00] TO 9000 [DIDSBURY_NEW240.00] CKT 18
  2517.9    155 BENALTO4    240.00    420 KEEPHIL4    240.00 03 -0.12196  -158.9  466.0 OPEN 152 [RED DEE4
 240.00] TO 988 [CROSSF T    240.00] CKT 01
  2517.9    420 KEEPHIL4    240.00    155 BENALTO4    240.00 03  0.12196   158.9  466.0 OPEN 152 [RED DEE4
 240.00] TO 988 [CROSSF T    240.00] CKT 01
  2530.6*   420 KEEPHIL4    240.00    155 BENALTO4    240.00 03  0.12151   158.5  466.0 OPEN 152 [RED DEE4
 240.00] TO 160 [JANET  4    240.00] CKT 25
  2530.6*   155 BENALTO4    240.00    420 KEEPHIL4    240.00 03 -0.12151  -158.5  466.0 OPEN 152 [RED DEE4
 240.00] TO 160 [JANET  4    240.00] CKT 25
  2540.9*   101 COOKING7    138.00     65 BARDO  7    138.00 74  0.02043    33.1   85.0
-------------------------------------------------------------------
                                                                           OPEN 9000
[DIDSBURY_NEW240.00] TO 187 [BEDDING1    240.00] CKT 18
  2542.4*    68 N HOLDE7    138.00     65 BARDO  7    138.00 74 -0.02130   -30.8   85.0 OPEN 155 [BENALTO4
 240.00] TO 161 [SARCEE 4    240.00] CKT 06
  2564.0     81 BIGSTON4    240.00    147 GAETZ  4    240.00 14  0.17339    54.4  499.0 OPEN 155 [BENALTO4
 240.00] TO 995 [W.GRN TP    240.00] CKT 95
  2572.8    123 DIDSBURY    138.00    957 166L JNC    138.00 66 -0.03373     5.8   81.0 OPEN 152 [RED DEE4
 240.00] TO 160 [JANET  4    240.00] CKT 25
  2577.1     81 BIGSTON4    240.00    147 GAETZ  4    240.00 14  0.17420    50.1  499.0
-------------------------------------------------------------------
                                                                           OPEN 9000
[DIDSBURY_NEW240.00] TO 187 [BEDDING1    240.00] CKT 18
  2590.0*    81 BIGSTON4    240.00    147 GAETZ  4    240.00 14  0.16774    64.6  499.0 OPEN 355 [NOVA C27
 138.00] TO 383 [JOFFRE 7    138.00] CKT 2
  2627.3  99700 INNISFAIL_NE240.00    160 JANET  4    240.00 29  0.13070   137.6  481.0 OPEN 155 [BENALTO4
 240.00] TO 161 [SARCEE 4    240.00] CKT 06
  2627.7  99700 INNISFAIL_NE240.00    160 JANET  4    240.00 29  0.13069   137.6  481.0 OPEN 155 [BENALTO4
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 240.00] TO 161 [SARCEE 4    240.00] CKT 28
  2628.2*   123 DIDSBURY    138.00    957 166L JNC    138.00 66 -0.03349     7.0   81.0 OPEN 147 [GAETZ  4
 240.00] TO 152 [RED DEE4    240.00] CKT 14
  2695.2  99700 INNISFAIL_NE240.00    160 JANET  4    240.00 29  0.12985   131.0  481.0
-------------------------------------------------------------                  OPEN 155 [BENALTO4
240.00] TO 9000 [DIDSBURY_NEW240.00] CKT 18
  2722.7     99 BENALTO7    138.00    882 SCHRA TP    138.00 48  0.04007    64.9  174.0
-------------------------------------------------------------                  OPEN 155 [BENALTO4
240.00] TO 9000 [DIDSBURY_NEW240.00] CKT 18
  2728.3     20 EDSON  7    138.00     39 CYNTHIA7    138.00 02  0.02723    10.7   85.0 BASE CASE
  2743.2    107 SUNDRE 7    138.00    883 EAGLE TP    138.00 19  0.03504    23.9  120.0
-------------------------------------------------------------                  OPEN 99700
[INNISFAIL_NE240.00] TO 120 [INNISFA7    138.00] CKT T1
  2802.0    152 RED DEE4    240.00    155 BENALTO4    240.00 00 -0.15919  -138.0  584.0
-------------------------------------------------------------                  OPEN 152 [RED DEE4
240.00] TO 99500 [PONOKA_NEW  240.00] CKT 10
  2811.5    152 RED DEE4    240.00    155 BENALTO4    240.00 00 -0.15748  -141.2  584.0
-------------------------------------------------------------                  OPEN 9000
[DIDSBURY_NEW240.00] TO 187 [BEDDING1    240.00] CKT 18
  2812.9    120 INNISFA7    138.00    121 OLDS   7    138.00 80  0.02977    38.2  122.0 OPEN 107 [SUNDRE 7
 138.00] TO 370 [SHELL C7    138.00] CKT 19
  2835.8    107 SUNDRE 7    138.00    883 EAGLE TP    138.00 19  0.03504    20.6  120.0 OPEN 120 [INNISFA7
 138.00] TO 121 [OLDS   7    138.00] CKT 80
  2837.3    107 SUNDRE 7    138.00    883 EAGLE TP    138.00 19  0.03516    20.3  120.0 OPEN 155 [BENALTO4
 240.00] TO 161 [SARCEE 4    240.00] CKT 06
  2837.7    107 SUNDRE 7    138.00    883 EAGLE TP    138.00 19  0.03516    20.2  120.0 OPEN 155 [BENALTO4
 240.00] TO 161 [SARCEE 4    240.00] CKT 28
  2844.6    152 RED DEE4    240.00    160 JANET  4    240.00 25  0.12162   135.0  481.0 OPEN 123 [DIDSBURY
 138.00] TO 982 [MADDEN T    138.00] CKT 80
  2850.6    115 S RED DE    138.00    119 N RED D7    138.00 80 -0.08793  -121.3  372.0 OPEN 147 [GAETZ  4
 240.00] TO 152 [RED DEE4    240.00] CKT 14
  2853.8     25 ENTWIST8    69.000     28 MOON LA8    69.000 29  0.00691     9.3   29.0 BASE CASE
  2865.9    152 RED DEE4    240.00    155 BENALTO4    240.00 00 -0.16017  -125.0  584.0 OPEN 147 [GAETZ  4
 240.00] TO 81 [BIGSTON4    240.00] CKT 14
  2868.6    152 RED DEE4    240.00    160 JANET  4    240.00 25  0.12142   132.7  481.0 OPEN 155 [BENALTO4
 240.00] TO 135 [SUNDANC4    240.00] CKT 26
  2868.7*   152 RED DEE4    240.00    160 JANET  4    240.00 25  0.12142   132.7  481.0 OPEN 155 [BENALTO4
 240.00] TO 135 [SUNDANC4    240.00] CKT 22
  2894.6     20 EDSON  7    138.00     39 CYNTHIA7    138.00 02  0.02611     9.4   85.0 OPEN 152 [RED DEE4
 240.00] TO 155 [BENALTO4    240.00] CKT 00
  2898.2  99700 INNISFAIL_NE240.00    160 JANET  4    240.00 29  0.12047   131.9  481.0
-------------------------------------------------------------                  OPEN 99700
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[INNISFAIL_NE240.00] TO 120 [INNISFA7    138.00] CKT T1
  2919.8    107 SUNDRE 7    138.00    883 EAGLE TP    138.00 19  0.03504    17.7  120.0 OPEN 121 [OLDS   7
 138.00] TO 123 [DIDSBURY    138.00] CKT 80
  2924.4    107 SUNDRE 7    138.00    883 EAGLE TP    138.00 19  0.03452    19.1  120.0 OPEN 152 [RED DEE4
 240.00] TO 988 [CROSSF T    240.00] CKT 01
  2943.6  99700 INNISFAIL_NE240.00    160 JANET  4    240.00 29  0.12047   126.4  481.0 OPEN 120 [INNISFA7
 138.00] TO 121 [OLDS   7    138.00] CKT 80
  2984.8  99700 INNISFAIL_NE240.00    160 JANET  4    240.00 29  0.12047   121.4  481.0 OPEN 121 [OLDS   7
 138.00] TO 123 [DIDSBURY    138.00] CKT 80
  2990.3    124 HARMATT7    138.00    883 EAGLE TP    138.00 19 -0.03504   -15.2  120.0
-----------------------------------------------------------------                    OPEN 99700
[INNISFAIL_NE240.00] TO 120 [INNISFA7    138.00] CKT T1

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     PTI INTERACTIVE POWER SYSTEM SIMULATOR--PSS/E   TUE, MAR 08 2011   9:51
 RED DEER AND DIDSBURY AREA STUDY                                    PAGE 3
 2012 SUMMER LIGHT BASE CASE REVISION 6.5
        *** TLTG EXPORT LIMIT OUTPUT FOR SUBSYSTEM N-OF-SOK     ***

 * MONITORED ELEMENTS OCCURRING     10 OR MORE TIMES

   NO. <----------------- MONITORED ELEMENT ----------------->
 TIMES <------- F R O M -------> <--------- T O ---------> CKT
    56    147 GAETZ  4    240.00    152 RED DEE4    240.00  14
    45   9000 DIDSBURY_NEW240.00    187 BEDDING1    240.00  18
    42    128 ELLERSLI    240.00     81 BIGSTON4    240.00  14
    42    152 RED DEE4    240.00  99700 INNISFAIL_NE240.00  29
    42    155 BENALTO4    240.00   9000 DIDSBURY_NEW240.00  18
    39     81 BIGSTON4    240.00    147 GAETZ  4    240.00  14
    38    152 RED DEE4    240.00    988 CROSSF T    240.00  01
    37    155 BENALTO4    240.00    161 SARCEE 4    240.00  06
    37    155 BENALTO4    240.00    161 SARCEE 4    240.00  28
    29    128 ELLERSLI    240.00  99500 PONOKA_NEW  240.00  10
    29    152 RED DEE4    240.00  99500 PONOKA_NEW  240.00  10
    28    152 RED DEE4    240.00    160 JANET  4    240.00  25
    28    107 SUNDRE 7    138.00    370 SHELL C7    138.00  19
    26    124 HARMATT7    138.00    957 166L JNC    138.00  66
    25    155 BENALTO4    240.00    135 SUNDANC4    240.00  22
    25    155 BENALTO4    240.00    135 SUNDANC4    240.00  26
    25    135 SUNDANC4    240.00    155 BENALTO4    240.00  22
    25    135 SUNDANC4    240.00    155 BENALTO4    240.00  26
    25    123 DIDSBURY    138.00    982 MADDEN T    138.00  80
    23    123 DIDSBURY    138.00    957 166L JNC    138.00  66
    22    155 BENALTO4    240.00    420 KEEPHIL4    240.00  03
    22    155 BENALTO4    240.00    420 KEEPHIL4    240.00  90
    22    420 KEEPHIL4    240.00    155 BENALTO4    240.00  03
```

22	420	KEEPHIL4	240.00	155	BENALTO4		240.00	90
22	101	COOKING7	138.00	65	BARDO	7	138.00	74
20	68	N HOLDE7	138.00	65	BARDO	7	138.00	74

Alternative 2-2012SP-SOK-TLTG-Result

PTI INTERACTIVE POWER SYSTEM SIMULATOR--PSS/E TUE, MAR 08 2011 9:55
D-SOK-1 (S3_SOK_PK) 2012 SUMMER PEAK CASE 716L CLOSED PAGE 1
NOVA ON 485MW WITHOUT TRANSMISSION PLAN
*** TLTG EXPORT LIMIT OUTPUT FOR BASE CASE ***

DISTRIBUTION FACTOR FILE: C:\Documents and Settings\zheny2\My Documents\AESO-RED DEER\New Final Case 01-03-2011\2012\TLTG(Transfer Capability Study
SUBSYSTEM DESCRIPTION FILE: C:\Documents and Settings\zheny2\My Documents\AESO-RED DEER\New Final Case 01-03-2011\2012\TLTG(Transfer Capability Study
MONITORED ELEMENT FILE: C:\Documents and Settings\zheny2\My Documents\AESO-RED DEER\New Final Case 01-03-2011\2012\TLTG(Transfer Capability Study
CONTINGENCY DESCRIPTION FILE: C:\Documents and Settings\zheny2\My Documents\AESO-RED DEER\New Final Case 01-03-2011\2012\TLTG(Transfer Capability Study

	PRE-SHIFT	DELTA	POST-SHIFT
STUDY SYSTEM MW GENERATION:	7925.6	100.0	8025.6
OPPOSING SYSTEM MW GENERATION:	66.0	-100.0	-34.0
STUDY SYSTEM NET INTERCHANGE:	2088.9	100.0	2188.9

<---------- STUDY SYSTEM ---------->					<---------- OPPOSING SYSTEM ---------->				
			<---- GENERATOR MW ---->					<---- GENERATOR MW ---->	
BUS#	X-- NAME	--X BASKV	BASE	SHIFT	CHANGE	BUS# X-- NAME	--X BASKV	BASE	SHIFT	CHANGE
14	WESGEN 9	13.800	15.8	16.0	0.2	4187 CECGT	18.000	4.1	-64.8	-68.9
54	DOW GEN2	14.400	88.7	89.8	1.1	4290 BALZ 1&2	13.800	61.9	30.8	-31.1
129	SUND#1GN	18.000	301.0	304.4	3.4					
130	SUND#3GN	20.000	380.0	384.5	4.5					
342	SUND#4GN	20.000	433.0	437.5	4.5					
345	SUND#5GN	20.000	433.0	437.5	4.5					
350	SUND#6GN	20.000	429.0	433.8	4.8					
408	WHITEGE9	12.500	25.0	25.4	0.4					
422	KEEP#1GN	19.000	408.0	412.5	4.5					
424	KEEP#2GN	19.000	408.0	412.5	4.5					
454	DOW GEN1	14.400	88.7	89.8	1.1					
490	GENES 39	22.000	486.0	491.9	5.9					
491	GENES 19	20.500	443.0	447.9	4.9					
492	GENES 29	20.500	413.0	417.9	4.9					
627	AIR LIQC	13.800	82.9	83.9	1.0					
1089	DIASHOW9	13.800	33.3	33.8	0.5					
1141	P&G 9	13.800	28.3	28.7	0.4					
1148	HR MILN9	15.000	159.0	160.7	1.7					
2030	DOWSTG 9	14.700	45.0	45.5	0.5					

2031	DOWGTG 9	13.800	80.8	81.8	1.0
2248	MAHKE-G2	13.800	83.5	84.6	1.1
2392	ALPAC2	13.800	89.1	90.6	1.5
2405	CONKLIN2	13.800	78.9	79.9	1.0
2406	CONKLIN2	13.800	85.0	86.0	1.0
3050	REDW GT	13.800	37.1	37.8	0.7
3248	MAHKE-G1	13.800	83.5	84.6	1.1
3301	FCG1	13.800	41.8	42.2	0.4
3302	FCG2	13.800	41.8	42.2	0.4
4062	SHERRITT	4.1600	6.0	6.1	0.1
4185	SCOTF GT	13.800	87.1	88.2	1.1
7185	SCOTF ST	13.800	84.5	85.6	1.1
10236	MUSKEG4	13.800	78.9	80.0	1.1
11241	LONGLK11	13.800	10.8	10.9	0.1
12236	MUSKEG6	13.800	78.9	80.0	1.1
12249	LNGLKCG1	13.800	78.9	80.0	1.1
13249	LNGLKCG2	13.800	78.9	80.0	1.1
16218	SUNC_G19	13.800	29.7	30.1	0.4
16219	MIL_G3	13.800	60.3	61.1	0.8
16233	SYNC_UE5	13.800	78.9	79.9	1.0
17101	GPEP39	13.800	23.8	24.1	0.3
17209	SYNC_G39	13.800	20.6	20.9	0.3
17210	SYNC_G49	13.800	41.8	42.4	0.6
17233	SYNC_UE4	13.800	25.3	25.6	0.3
18206	AUR_GTG2	13.800	78.9	79.9	1.0
18207	AUR_GTG1	13.800	78.9	79.9	1.0
18208	MIL_G5 9	13.800	102.1	103.6	1.5
18209	SYNC_G29	13.800	41.8	42.4	0.6
18210	SYNC_G59	13.800	20.6	20.9	0.3
18218	SUNC G29	13.800	29.7	30.1	0.4
18223	TAR-GN-2	13.800	69.6	70.5	0.9
18264	HORUP7	13.800	79.8	80.8	1.0
18274	MACKAY2	18.000	159.6	161.5	1.9
18302	PRIM GEN	13.800	88.2	89.3	1.1
19142	BEARCK3	13.800	32.3	32.7	0.4
19208	MIL_G6 9	13.800	102.1	103.6	1.5
19209	SYNC_G19	13.800	41.8	42.4	0.6
19210	SYNC_G69	13.800	55.7	56.5	0.8
19264	HORUP6	13.800	14.4	14.6	0.2
90351	KEEUN3	22.000	495.0	500.9	5.9
90517	SH_UG32	13.800	20.7	20.9	0.2
91521	BIOMASS1	12.500	33.0	33.4	0.4
91522	BIOMASS2	12.500	33.0	33.4	0.4
96083	SHELLCM2	18.000	177.1	179.6	2.5
96111	DUNVEG25	25.000	95.0	96.1	1.1

97252	FT. HILL 13.13.800	78.9	80.0	1.1	
97253	FT. HILL 13.13.800	78.9	80.0	1.1	
97275	G-L_CG2	13.800	157.8	159.9	2.1

LOADINGS AT OR ABOVE 100.0 %
OF RATING ARE MARKED WITH '*'

<------- F R O M ------->			<--------- T O --------->			CKT	INCR. TRANS CAPAB	<---------- BASE CASE ----------> RATING A	PRE-SHIFT MW	POST-SHIFT MW	LIMIT CASE MW	DISTR. FACTOR
155	BENALTO4	240.00	9000	DIDSBURY_NEW	240.00	18	391.9	417	330.1	352.3	417.0*	0.22163
9000	DIDSBURY_NEW	240.00	187	BEDDING1	240.00	18	658.1	417	253.1	278.0	350.7	0.24901
135	SUNDANC4	240.00	155	BENALTO4	240.00	22	932.5	466	328.4	343.2	386.2	0.14755
155	BENALTO4	240.00	135	SUNDANC4	240.00	22	932.5	466	-328.4	-343.2	-386.2	-0.14755
68	N HOLDE7	138.00	65	BARDO 7	138.00	74	945.0	85	-64.8	-66.9	-73.2	-0.02140
128	ELLERSLI	240.00	99500	PONOKA_NEW	240.00	10	1013.1	466	301.1	317.4	364.9	0.16272
135	SUNDANC4	240.00	155	BENALTO4	240.00	26	1026.4	481	329.3	344.1	387.2	0.14781
155	BENALTO4	240.00	135	SUNDANC4	240.00	26	1026.4	481	-329.3	-344.1	-387.2	-0.14781
128	ELLERSLI	240.00	81	BIGSTON4	240.00	14	1047.9	481	325.3	340.1	383.5	0.14861
152	RED DEE4	240.00	988	CROSSF T	240.00	01	1054.7	408	255.0	269.5	311.8	0.14510
101	COOKING7	138.00	65	BARDO 7	138.00	74	1144.7	85	62.0	64.0	69.9	0.02007
147	GAETZ 4	240.00	152	RED DEE4	240.00	14	1194.0	466	283.2	298.5	343.2	0.15314
152	RED DEE4	240.00	99500	PONOKA_NEW	240.00	10	1211.3	466	-268.9	-285.2	-332.7	-0.16272
155	BENALTO4	240.00	161	SARCEE 4	240.00	06	1220.0	449	294.7	307.3	344.2	0.12649
155	BENALTO4	240.00	161	SARCEE 4	240.00	28	1232.5	449	293.1	305.8	342.7	0.12648
420	KEEPHIL4	240.00	155	BENALTO4	240.00	90	1344.5	466	296.6	309.2	346.0	0.12600
155	BENALTO4	240.00	420	KEEPHIL4	240.00	90	1344.5	466	-296.6	-309.2	-346.0	-0.12600
420	KEEPHIL4	240.00	155	BENALTO4	240.00	03	1376.8	466	294.0	306.5	343.0	0.12491
155	BENALTO4	240.00	420	KEEPHIL4	240.00	03	1376.8	466	-294.0	-306.5	-343.0	-0.12491
152	RED DEE4	240.00	99700	INNISFAIL_NE	240.00	29	1411.2	466	269.8	283.7	324.3	0.13904
81	BIGSTON4	240.00	147	GAETZ 4	240.00	14	1435.1	499	249.4	266.8	317.6	0.17391
123	DIDSBURY	138.00	982	MADDEN T	138.00	80	1493.8	122	80.9	83.7	91.7	0.02751
107	SUNDRE 7	138.00	370	SHELL C7	138.00	19	1747.3	120	-64.8	-68.0	-77.2	-0.03159
25	ENTWIST8	69.000	28	MOON LA8	69.000	29	1780.5	29	17.5	18.1	20.0	0.00646
20	EDSON 7	138.00	39	CYNTHIA7	138.00	02	1887.4	85	37.8	40.3	47.6	0.02501
152	RED DEE4	240.00	160	JANET 4	240.00	25	2101.6	481	225.6	237.8	273.2	0.12153
99700	INNISFAIL_NE	240.00	160	JANET 4	240.00	29	2245.1	466	206.2	217.7	251.5	0.11574
124	HARMATT7	138.00	957	166L JNC	138.00	66	2380.5	78	2.8	6.0	15.2	0.03159
123	DIDSBURY	138.00	957	166L JNC	138.00	66	2610.0	81	1.4	-1.7	-10.9	-0.03159
107	SUNDRE 7	138.00	883	EAGLE TP	138.00	19	2842.4	120	30.2	33.4	42.6	0.03159
76	IPPL ST7	138.00	1491	BAT. RV7	138.00	01	3011.5	112	18.3	21.5	30.5	0.03110
1383	VERMILO7	138.00	79	BUFFALO7	138.00	50	3032.6	114	33.1	35.8	43.6	0.02667
124	HARMATT7	138.00	883	EAGLE TP	138.00	19	3264.7	120	-16.9	-20.0	-29.3	-0.03159
152	RED DEE4	240.00	155	BENALTO4	240.00	00	3346.2	584	-304.6	-313.0	-337.3	-0.08350
120	INNISFA7	138.00	121	OLDS 7	138.00	80	3557.1	122	39.1	41.5	48.3	0.02330
99	BENALTO7	138.00	882	SCHRA TP	138.00	48	4059.3	167	79.3	81.4	87.7	0.02161
862	PV-TAP7	138.00	362	EDGERTO7	138.00	49	4610.5	85	10.1	11.7	16.5	0.01624

121	OLDS 7	138.00	123	DIDSBURY	138.00	80	4617.7	122	14.4	16.7	23.5	0.02330
91	NISKU 7	138.00	93	WETASKI7	138.00	58	5213.3	96	12.3	13.9	18.6	0.01606
370	SHELL C7	138.00	882	SCHRA TP	138.00	48	5285.1	174	-59.8	-61.9	-68.3	-0.02161
104	STRACHA7	138.00	890	AMOCO TP	138.00	19	5863.7	120	61.5	62.5	65.4	0.00998
120	INNISFA7	138.00	99700	INNISFAIL_NE	240.00	T1	5987.3	200	-60.5	-62.8	-69.6	-0.02330
155	BENALTO4	240.00	995	W.GRN TP	240.00	95	7163.7	466	-157.5	-161.8	-174.4	-0.04307
99	BENALTO7	138.00	100	ROCKY M7	138.00	17	7776.7	120	42.4	43.4	46.3	0.00998
99	BENALTO7	138.00	155	BENALTO4	240.00	T1	8167.5	200	-72.4	-74.0	-78.5	-0.01562
99	BENALTO7	138.00	155	BENALTO4	240.00	T2	8171.6	200	-72.4	-73.9	-78.5	-0.01562
423	KEEPHIL7	138.00	49	KEYSTON7	138.00	34	8265.6	158	62.2	63.3	66.7	0.01160
881	RAVEN TP	138.00	890	AMOCO TP	138.00	19	8766.2	120	-32.6	-33.6	-36.5	-0.00998
96	DEVON 7	138.00	365	BUFORD 7	138.00	38	9023.1	121	25.7	26.7	29.8	0.01057
370	SHELL C7	138.00	881	RAVEN TP	138.00	19	9282.1	120	-27.4	-28.4	-31.3	-0.00998
123	DIDSBURY	138.00	9000	DIDSBURY_NEW	240.00	T1	9790.3	200	-68.0	-65.3	-57.3	0.02738
105	PIGEON 7	138.00	374	BIGSTON7	138.00	05	9805.1	85	-18.6	-17.6	-14.5	0.01057
356	BON GLE7	138.00	365	BUFORD 7	138.00	38	10554.3	121	-9.5	-10.5	-13.6	-0.01057
81	BIGSTON4	240.00	374	BIGSTON7	138.00	T1	10897.5	200	75.7	73.2	65.8	-0.02530
100	ROCKY M7	138.00	104	STRACHA7	138.00	70	11185.5	120	8.4	9.4	12.3	0.00998
105	PIGEON 7	138.00	356	BON GLE7	138.00	37	11738.3	119	5.0	4.0	0.9	-0.01057
93	WETASKI7	138.00	803	803/804N	138.00	04	12391.5	126	-56.5	-55.1	-50.8	0.01473
374	BIGSTON7	138.00	804	803/804X	138.00	04	12407.5	126	56.8	55.3	51.0	-0.01473
118	RED DE B	138.00	152	RED DEE4	240.00	T2	15908.5	200	36.1	37.1	40.1	0.01030
117	RED DE A	138.00	118	RED DE B	138.00	1	15917.0	121	12.7	13.4	15.4	0.00680
117	RED DE A	138.00	152	RED DEE4	240.00	T1	16278.9	200	35.5	36.5	39.4	0.01011
115	S RED DE	138.00	119	N RED D7	138.00	80	16854.7	372	-86.9	-88.6	-93.6	-0.01691
115	S RED DE	138.00	117	RED DE A	138.00	80	18772.6	372	54.5	56.2	61.1	0.01691
803	803/804N	138.00	804	803/804X	138.00	04	20953.7	126	-28.3	-27.6	-25.5	0.00737
803	803/804N	138.00	804	803/804X	138.00	03	20953.7	126	-28.3	-27.6	-25.5	0.00737
147	GAETZ 4	240.00	148	GAETZ 7	138.00	T2	21032.6	200	-20.0	-18.9	-15.9	0.01046
147	GAETZ 4	240.00	148	GAETZ 7	138.00	T1	21303.7	200	-19.7	-18.6	-15.6	0.01031
119	N RED D7	138.00	148	GAETZ 7	138.00	78	21369.2	239	-64.4	-65.2	-67.6	-0.00817
119	N RED D7	138.00	148	GAETZ 7	138.00	68	21369.2	239	-64.4	-65.2	-67.6	-0.00817
152	RED DEE4	240.00	1422	NEVIS 4	240.00	12	22604.6	488	169.1	170.6	174.7	0.01411
94	ERVICK 7	138.00	899	TRUE W T	138.00	29	34440.4	85	-39.2	-39.3	-39.7	-0.00133
93	WETASKI7	138.00	899	TRUE W T	138.00	29	42309.1	96	39.7	39.9	40.3	0.00133
70	CAMROSE7	138.00	94	ERVICK 7	138.00	29	43477.9	85	-27.2	-27.3	-27.7	-0.00133
383	JOFFRE 7	138.00	664	PIPER CR	138.00	55	46459.7	252	72.8	73.2	74.3	0.00386
118	RED DE B	138.00	664	PIPER CR	138.00	55	54712.4	252	-41.0	-41.4	-42.5	-0.00386
70	CAMROSE7	138.00	946	KING TAP	138.00	30	61807.5	85	2.8	3.0	3.4	0.00133
65	BARDO 7	138.00	946	KING TAP	138.00	30	62625.8	86	-2.8	-2.9	-3.3	-0.00133
	INTERFACE SOK						67430.1	2050	54.6	57.6	66.2	0.02959
114	LACOMBE7	138.00	116	W LACOMB	138.00	80	99030.9	75	18.7	18.8	18.9	0.00057
95	PONOKA 7	138.00	192	NELSON L	138.00	1	>99999.	96	6.8	6.8	6.8	0.00000
95	PONOKA 7	138.00	99501	PONOKAT1	240.00	T1	>99999.	100	-13.5	-13.5	-13.5	0.00000
95	PONOKA 7	138.00	99502	PONOKAT2	240.00	T2	>99999.	100	-13.5	-13.5	-13.5	0.00000

97	ECKVILL7	138.00	956	758L JCT	138.00	58	>99999.	85	-8.8	-8.8	-8.8	0.00000
98	RIMBEY 7	138.00	956	758L JCT	138.00	57	>99999.	85	-12.7	-12.7	-12.7	0.00000
99	BENALTO7	138.00	780	SYLV_138	138.00	1	>99999.	252	-5.5	-5.5	-5.6	-0.00035
99	BENALTO7	138.00	956	758L JCT	138.00	57	>99999.	85	21.6	21.6	21.6	0.00000
113	BLACKFA7	138.00	116	W LACOMB	138.00	80	>99999.	112	-18.6	-18.7	-18.8	-0.00057
113	BLACKFA7	138.00	119	N RED D7	138.00	80	>99999.	122	-9.2	-9.2	-9.0	0.00057
114	LACOMBE7	138.00	388	ELLIS 7	138.00	1	>99999.	252	-25.7	-25.7	-25.9	-0.00057
118	RED DE B	138.00	780	SYLV_138	138.00	1	>99999.	252	17.6	17.6	17.7	0.00036
122	MADDEN 7	138.00	982	MADDEN T	138.00	89	>99999.	75	-13.4	-13.4	-13.4	0.00000
124	HARMATT7	138.00	97619	HGF1	138.00	01	>99999.	174	0.5	0.5	0.5	0.00000
126	SHELL H7	138.00	957	166L JNC	138.00	66	>99999.	85	-4.2	-4.2	-4.2	0.00000
142	KINGMAN7	138.00	946	KING TAP	138.00	32	>99999.	86	0.0	0.0	0.0	0.00000
148	GAETZ 7	138.00	383	JOFFRE 7	138.00	56	>99999.	154	-77.0	-76.8	-76.3	0.00169
148	GAETZ 7	138.00	383	JOFFRE 7	138.00	93	>99999.	154	-77.0	-76.8	-76.3	0.00169
148	GAETZ 7	138.00	384	UC PRENT	138.00	59	>99999.	151	-14.8	-14.7	-14.4	0.00104
152	RED DEE4	240.00	93700	RED DEER	LUM34.500	1	>99999.	1000	-1.2	-1.2	-1.2	0.00000
205	AMOCO R7	138.00	257	LIMESTO7	138.00	64	>99999.	121	22.1	22.1	22.1	0.00000
205	AMOCO R7	138.00	890	AMOCO TP	138.00	19	>99999.	121	-27.6	-27.6	-27.6	0.00000
354	NOVA C17	138.00	383	JOFFRE 7	138.00	1	>99999.	327	136.6	136.6	136.6	0.00000
355	NOVA C27	138.00	383	JOFFRE 7	138.00	2	>99999.	327	265.9	265.9	265.9	0.00000
382	SHELL RA	138.00	881	RAVEN TP	138.00	19	>99999.	121	-5.1	-5.1	-5.1	0.00000
383	JOFFRE 7	138.00	384	UC PRENT	138.00	75	>99999.	151	62.0	62.0	61.9	-0.00026
383	JOFFRE 7	138.00	398	BROOKFLD	138.00	89	>99999.	121	3.1	3.1	3.1	0.00000
383	JOFFRE 7	138.00	975	COMINTAP	138.00	84	>99999.	154	67.1	67.1	67.0	-0.00021
384	UC PRENT	138.00	388	ELLIS 7	138.00	74	>99999.	156	-26.1	-26.1	-25.8	0.00078
385	SHELL SC	138.00	882	SCHRA TP	138.00	48	>99999.	121	-17.2	-17.2	-17.2	0.00000
386	SHELL EA	138.00	883	EAGLE TP	138.00	19	>99999.	121	-13.1	-13.1	-13.1	0.00000
387	COMINCO7	138.00	975	COMINTAP	138.00	84	>99999.	101	-3.6	-3.6	-3.6	0.00000
388	ELLIS 7	138.00	975	COMINTAP	138.00	84	>99999.	154	-63.1	-63.1	-63.0	0.00021
440	TRUE WEL	138.00	899	TRUE W T	138.00	29	>99999.	98	0.0	0.0	0.0	0.00000
99500	PONOKA_NEW	240.00	99501	PONOKAT1	240.00	T1	>99999.	100	13.5	13.5	13.5	0.00000
99500	PONOKA_NEW	240.00	99502	PONOKAT2	240.00	T2	>99999.	100	13.5	13.5	13.5	0.00000

PTI INTERACTIVE POWER SYSTEM SIMULATOR--PSS/E TUE, MAR 08 2011 9:55
D-SOK-1 (S3_SOK_PK) 2012 SUMMER PEAK CASE 716L CLOSED PAGE 2
NOVA ON 485MW WITHOUT TRANSMISSION PLAN
*** TLTG EXPORT LIMIT OUTPUT FOR SUBSYSTEM N-OF-SOK ***

SOLUTION OF 98 SYSTEM CONDITIONS ATTEMPTED 0 INSOLUBLE SYSTEM CONDITIONS

INCR. TRANS CAPAB	<---------- LIMITING ELEMENT ----------> F R O M	T O	CKT	DISTR. FACTOR	PRE-SHIFT MW	RATING BAS/CNT A/A

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CONTINGENCY DESCRIPTION ------------------->
  -364.3     68 N HOLDE7    138.00     65 BARDO  7    138.00 74 -0.02381   -93.7   85.0
-------------------------------------------------------------------
                                                                          OPEN 152 [RED DEE4
240.00] TO 1422 [NEVIS  4    240.00] CKT 12
   -90.0    101 COOKING7    138.00     65 BARDO  7    138.00 74  0.02090    86.9   85.0 OPEN 93 [WETASKI7
138.00] TO 899 [TRUE W T    138.00] CKT 29
   -74.2    101 COOKING7    138.00     65 BARDO  7    138.00 74  0.02090    86.5   85.0 OPEN 94 [ERVICK 7
138.00] TO 899 [TRUE W T    138.00] CKT 29
    30.7    123 DIDSBURY    138.00    982 MADDEN T    138.00 80  0.06594   120.0  122.0
-------------------------------------------------------------------
                                                                          OPEN 9000
[DIDSBURY_NEW240.00] TO 187 [BEDDING1    240.00] CKT 18
   112.3    155 BENALTO4    240.00   9000 DIDSBURY_NEW240.00 18  0.24700   389.3  417.0 OPEN 155 [BENALTO4
240.00] TO 161 [SARCEE 4    240.00] CKT 06
   113.6    155 BENALTO4    240.00   9000 DIDSBURY_NEW240.00 18  0.24700   388.9  417.0 OPEN 155 [BENALTO4
240.00] TO 161 [SARCEE 4    240.00] CKT 28
   131.1    155 BENALTO4    240.00   9000 DIDSBURY_NEW240.00 18  0.24954   384.3  417.0
-------------------------------------------------------------------
                                                                         OPEN 152 [RED DEE4
240.00] TO 99700 [INNISFAIL_NE240.00] CKT 29
   138.5     68 N HOLDE7    138.00     65 BARDO  7    138.00 74 -0.03237   -80.5   85.0 OPEN 147 [GAETZ  4
240.00] TO 81 [BIGSTON4    240.00] CKT 14
   149.9    155 BENALTO4    240.00   9000 DIDSBURY_NEW240.00 18  0.23575   381.7  417.0 OPEN 152 [RED DEE4
240.00] TO 155 [BENALTO4    240.00] CKT 00
   184.7    155 BENALTO4    240.00    135 SUNDANC4    240.00 22 -0.19328  -430.3  466.0 OPEN 155 [BENALTO4
240.00] TO 135 [SUNDANC4    240.00] CKT 26
   184.7    135 SUNDANC4    240.00    155 BENALTO4    240.00 22  0.19328   430.3  466.0 OPEN 155 [BENALTO4
240.00] TO 135 [SUNDANC4    240.00] CKT 26
   212.1    107 SUNDRE 7    138.00    370 SHELL C7    138.00 19 -0.06008  -107.3  120.0
-------------------------------------------------------------------
                                                                          OPEN 155 [BENALTO4
240.00] TO 9000 [DIDSBURY_NEW240.00] CKT 18
   214.0    155 BENALTO4    240.00   9000 DIDSBURY_NEW240.00 18  0.24163   365.3  417.0 OPEN 152 [RED DEE4
240.00] TO 988 [CROSSF T    240.00] CKT 01
   246.4    155 BENALTO4    240.00   9000 DIDSBURY_NEW240.00 18  0.23696   358.6  417.0 OPEN 152 [RED DEE4
240.00] TO 160 [JANET  4    240.00] CKT 25
   258.2    155 BENALTO4    240.00    135 SUNDANC4    240.00 26 -0.19351  -431.0  481.0 OPEN 155 [BENALTO4
240.00] TO 135 [SUNDANC4    240.00] CKT 22
   258.2    135 SUNDANC4    240.00    155 BENALTO4    240.00 26  0.19351   431.0  481.0 OPEN 155 [BENALTO4
240.00] TO 135 [SUNDANC4    240.00] CKT 22
   261.0    155 BENALTO4    240.00   9000 DIDSBURY_NEW240.00 18  0.23418   355.9  417.0 OPEN 107 [SUNDRE 7
138.00] TO 370 [SHELL C7    138.00] CKT 19
   285.3    101 COOKING7    138.00     65 BARDO  7    138.00 74  0.02090    79.0   85.0 OPEN 70 [CAMROSE7
138.00] TO 94 [ERVICK 7    138.00] CKT 29
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   292.0    155 BENALTO4    240.00   9000 DIDSBURY_NEW240.00 18  0.22930   350.0  417.0
------------------------------------------------------------------------
                                                                      OPEN 99700
[INNISFAIL_NE240.00] TO 120 [INNISFA7    138.00] CKT T1
   298.2    155 BENALTO4    240.00   9000 DIDSBURY_NEW240.00 18  0.22687   349.4  417.0 OPEN 99 [BENALTO7
138.00] TO 882 [SCHRA TP    138.00] CKT 48
   302.4*   155 BENALTO4    240.00   9000 DIDSBURY_NEW240.00 18  0.23115   347.1  417.0
------------------------------------------------------------------------
                                                                      OPEN 99700
[INNISFAIL_NE240.00] TO 160 [JANET  4    240.00] CKT 29
   307.8    101 COOKING7    138.00     65 BARDO  7    138.00 74  0.02143    78.4   85.0
------------------------------------------------------------------------
                                                                       OPEN 152 [RED DEE4
240.00] TO 1422 [NEVIS  4    240.00] CKT 12
   361.0     68 N HOLDE7    138.00     65 BARDO  7    138.00 74 -0.02760   -75.0   85.0
------------------------------------------------------------------------
                                                                      OPEN 152 [RED DEE4
240.00] TO 99500 [PONOKA_NEW  240.00] CKT 10
   402.9    128 ELLERSLI    240.00     81 BIGSTON4    240.00 14  0.19525   402.3  481.0
------------------------------------------------------------------------
                                                                      OPEN 152 [RED DEE4
240.00] TO 99500 [PONOKA_NEW  240.00] CKT 10
   404.3    155 BENALTO4    240.00    420 KEEPHIL4    240.00 90 -0.16895  -397.7  466.0 OPEN 155 [BENALTO4
240.00] TO 420 [KEEPHIL4    240.00] CKT 03
   404.3    420 KEEPHIL4    240.00    155 BENALTO4    240.00 90  0.16895   397.7  466.0 OPEN 155 [BENALTO4
240.00] TO 420 [KEEPHIL4    240.00] CKT 03
   408.5   9000 DIDSBURY_NEW240.00    187 BEDDING1    240.00 18  0.27171   306.0  417.0 OPEN 155 [BENALTO4
240.00] TO 161 [SARCEE 4    240.00] CKT 06
   409.5   9000 DIDSBURY_NEW240.00    187 BEDDING1    240.00 18  0.27171   305.7  417.0 OPEN 155 [BENALTO4
240.00] TO 161 [SARCEE 4    240.00] CKT 28
   420.1    420 KEEPHIL4    240.00    155 BENALTO4    240.00 03  0.16799   395.4  466.0 OPEN 155 [BENALTO4
240.00] TO 420 [KEEPHIL4    240.00] CKT 90
   420.1    155 BENALTO4    240.00    420 KEEPHIL4    240.00 03 -0.16799  -395.4  466.0 OPEN 155 [BENALTO4
240.00] TO 420 [KEEPHIL4    240.00] CKT 90
   425.4    128 ELLERSLI    240.00  99500 PONOKA_NEW  240.00 10  0.21415   374.9  466.0 OPEN 147 [GAETZ  4
240.00] TO 81 [BIGSTON4    240.00] CKT 14
   458.2   9000 DIDSBURY_NEW240.00    187 BEDDING1    240.00 18  0.27147   292.6  417.0 OPEN 152 [RED DEE4
240.00] TO 988 [CROSSF T    240.00] CKT 01
   486.5   9000 DIDSBURY_NEW240.00    187 BEDDING1    240.00 18  0.26786   286.7  417.0
------------------------------------------------------------------------
                                                                      OPEN 99700
[INNISFAIL_NE240.00] TO 160 [JANET  4    240.00] CKT 29
   487.5    155 BENALTO4    240.00    161 SARCEE 4    240.00 06  0.15952   371.2  449.0 OPEN 155 [BENALTO4
240.00] TO 161 [SARCEE 4    240.00] CKT 28
   494.1     68 N HOLDE7    138.00     65 BARDO  7    138.00 74 -0.02551   -72.4   85.0 OPEN 147 [GAETZ  4
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240.00] TO 152 [RED DEE4    240.00] CKT 14
   494.8    155 BENALTO4    240.00    161 SARCEE 4    240.00 28  0.15951   370.1  449.0 OPEN 155 [BENALTO4
240.00] TO 161 [SARCEE 4    240.00] CKT 06
   497.7   9000 DIDSBURY_NEW240.00    187 BEDDING1    240.00 18  0.26597   284.6  417.0 OPEN 152 [RED DEE4
240.00] TO 160 [JANET  4    240.00] CKT 25
   502.7   9000 DIDSBURY_NEW240.00    187 BEDDING1    240.00 18  0.25833   287.1  417.0 OPEN 152 [RED DEE4
240.00] TO 155 [BENALTO4    240.00] CKT 00
   507.8    147 GAETZ  4    240.00    152 RED DEE4    240.00 14  0.20179   363.5  466.0
------------------------------------------------------------------                 OPEN 152 [RED DEE4
240.00] TO 99500 [PONOKA_NEW  240.00] CKT 10
   519.6   9000 DIDSBURY_NEW240.00    187 BEDDING1    240.00 18  0.25897   282.4  417.0 OPEN 123 [DIDSBURY
138.00] TO 982 [MADDEN T    138.00] CKT 80
   529.6    101 COOKING7    138.00     65 BARDO  7    138.00 74  0.02573    71.4   85.0
------------------------------------------------------------------                 OPEN 152 [RED DEE4
240.00] TO 99500 [PONOKA_NEW  240.00] CKT 10
   540.9     68 N HOLDE7    138.00     65 BARDO  7    138.00 74 -0.02452   -71.7   85.0 OPEN 155 [BENALTO4
240.00] TO 135 [SUNDANC4    240.00] CKT 26
   542.0     68 N HOLDE7    138.00     65 BARDO  7    138.00 74 -0.02451   -71.7   85.0 OPEN 155 [BENALTO4
240.00] TO 135 [SUNDANC4    240.00] CKT 22
   544.9    124 HARMATT7    138.00    957 166L JNC    138.00 66  0.06008    45.3   78.0
------------------------------------------------------------------                  OPEN 155 [BENALTO4
240.00] TO 9000 [DIDSBURY_NEW240.00] CKT 18
   554.3    152 RED DEE4    240.00    988 CROSSF T    240.00 01  0.17420   311.4  408.0
------------------------------------------------------------------                 OPEN 152 [RED DEE4
240.00] TO 99700 [INNISFAIL_NE240.00] CKT 29
   561.2   9000 DIDSBURY_NEW240.00    187 BEDDING1    240.00 18  0.23648   284.3  417.0
------------------------------------------------------------------                  OPEN 9000
[DIDSBURY_NEW240.00] TO 123 [DIDSBURY    138.00] CKT T1
   576.0    152 RED DEE4    240.00  99500 PONOKA_NEW  240.00 10 -0.21415  -342.7  466.0 OPEN 147 [GAETZ  4
240.00] TO 81 [BIGSTON4    240.00] CKT 14
   580.2    135 SUNDANC4    240.00    155 BENALTO4    240.00 22  0.17083   366.9  466.0
------------------------------------------------------------------                 OPEN 152 [RED DEE4
240.00] TO 99500 [PONOKA_NEW  240.00] CKT 10
   580.2    155 BENALTO4    240.00    135 SUNDANC4    240.00 22 -0.17083  -366.9  466.0
------------------------------------------------------------------                 OPEN 152 [RED DEE4
240.00] TO 99500 [PONOKA_NEW  240.00] CKT 10
   582.6    152 RED DEE4    240.00    988 CROSSF T    240.00 01  0.17318   307.1  408.0 OPEN 152 [RED DEE4
240.00] TO 160 [JANET  4    240.00] CKT 25
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   583.9    155 BENALTO4    240.00    135 SUNDANC4    240.00 22 -0.17303  -365.0  466.0 OPEN 147 [GAETZ  4
240.00] TO 81 [BIGSTON4    240.00] CKT 14
   583.9    135 SUNDANC4    240.00    155 BENALTO4    240.00 22  0.17303   365.0  466.0 OPEN 147 [GAETZ  4
240.00] TO 81 [BIGSTON4    240.00] CKT 14
   591.9    155 BENALTO4    240.00    161 SARCEE 4    240.00 06  0.16466   351.5  449.0
------------------------------------------------------------------
                                                                                    OPEN 155 [BENALTO4
240.00] TO 9000 [DIDSBURY_NEW240.00] CKT 18
   601.5    155 BENALTO4    240.00    161 SARCEE 4    240.00 28  0.16464   350.0  449.0
------------------------------------------------------------------
                                                                                    OPEN 155 [BENALTO4
240.00] TO 9000 [DIDSBURY_NEW240.00] CKT 18
   602.2    135 SUNDANC4    240.00    155 BENALTO4    240.00 22  0.16403   367.2  466.0 OPEN 155 [BENALTO4
240.00] TO 420 [KEEPHIL4    240.00] CKT 90
   602.2    155 BENALTO4    240.00    135 SUNDANC4    240.00 22 -0.16403  -367.2  466.0 OPEN 155 [BENALTO4
240.00] TO 420 [KEEPHIL4    240.00] CKT 90
   603.1   9000 DIDSBURY_NEW240.00    187 BEDDING1    240.00 18  0.25439   263.6  417.0
------------------------------------------------------------------
                                                                                   OPEN 152 [RED DEE4
240.00] TO 99700 [INNISFAIL_NE240.00] CKT 29
   603.7*  9000 DIDSBURY_NEW240.00    187 BEDDING1    240.00 18  0.25009   266.0  417.0
------------------------------------------------------------------
                                                                                    OPEN 152 [RED DEE4
240.00] TO 1422 [NEVIS  4    240.00] CKT 12
   605.6    155 BENALTO4    240.00    135 SUNDANC4    240.00 22 -0.16384  -366.8  466.0 OPEN 155 [BENALTO4
240.00] TO 420 [KEEPHIL4    240.00] CKT 03
   605.6    135 SUNDANC4    240.00    155 BENALTO4    240.00 22  0.16384   366.8  466.0 OPEN 155 [BENALTO4
240.00] TO 420 [KEEPHIL4    240.00] CKT 03
   612.6     68 N HOLDE7    138.00     65 BARDO  7    138.00 74 -0.02379   -70.4   85.0 OPEN 155 [BENALTO4
240.00] TO 420 [KEEPHIL4    240.00] CKT 90
   616.1     68 N HOLDE7    138.00     65 BARDO  7    138.00 74 -0.02377   -70.4   85.0 OPEN 155 [BENALTO4
240.00] TO 420 [KEEPHIL4    240.00] CKT 03
   620.4    152 RED DEE4    240.00    988 CROSSF T    240.00 01  0.18359   294.1  408.0
------------------------------------------------------------------
                                                                                    OPEN 9000
[DIDSBURY_NEW240.00] TO 187 [BEDDING1    240.00] CKT 18
   631.0    128 ELLERSLI    240.00  99500 PONOKA_NEW  240.00 10  0.18447   349.6  466.0 OPEN 155 [BENALTO4
240.00] TO 135 [SUNDANC4    240.00] CKT 26
   632.1    128 ELLERSLI    240.00  99500 PONOKA_NEW  240.00 10  0.18442   349.4  466.0 OPEN 155 [BENALTO4
240.00] TO 135 [SUNDANC4    240.00] CKT 22
   633.4    152 RED DEE4    240.00    988 CROSSF T    240.00 01  0.17389   297.9  408.0
------------------------------------------------------------------
                                                                                    OPEN 155 [BENALTO4
240.00] TO 9000 [DIDSBURY_NEW240.00] CKT 18
   643.5    152 RED DEE4    240.00    988 CROSSF T    240.00 01  0.16970   298.8  408.0
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------------------------------------------------------------------
                                                                  OPEN 99700
[INNISFAIL_NE240.00] TO 160 [JANET  4    240.00] CKT 29
   643.6    120 INNISFA7    138.00    121 OLDS   7    138.00 80  0.05512    86.5  122.0
------------------------------------------------------------------
                                                                   OPEN 155 [BENALTO4
240.00] TO 9000 [DIDSBURY_NEW240.00] CKT 18
   657.2    152 RED DEE4    240.00  99700 INNISFAIL_NE240.00 29  0.18787   342.5  466.0
------------------------------------------------------------------
                                                                   OPEN 155 [BENALTO4
240.00] TO 9000 [DIDSBURY_NEW240.00] CKT 18
   661.4    135 SUNDANC4    240.00    155 BENALTO4    240.00 26  0.17112   367.8  481.0
------------------------------------------------------------------
                                                                  OPEN 152 [RED DEE4
240.00] TO 99500 [PONOKA_NEW  240.00] CKT 10
   661.4    155 BENALTO4    240.00    135 SUNDANC4    240.00 26 -0.17112  -367.8  481.0
------------------------------------------------------------------
                                                                  OPEN 152 [RED DEE4
240.00] TO 99500 [PONOKA_NEW  240.00] CKT 10
   664.0    135 SUNDANC4    240.00    155 BENALTO4    240.00 26  0.17334   365.9  481.0 OPEN 147 [GAETZ  4
240.00] TO 81 [BIGSTON4    240.00] CKT 14
   664.0    155 BENALTO4    240.00    135 SUNDANC4    240.00 26 -0.17334  -365.9  481.0 OPEN 147 [GAETZ  4
240.00] TO 81 [BIGSTON4    240.00] CKT 14
   664.7    128 ELLERSLI    240.00  99500 PONOKA_NEW  240.00 10  0.17587   349.1  466.0 OPEN 152 [RED DEE4
240.00] TO 155 [BENALTO4    240.00] CKT 00
   665.6    123 DIDSBURY    138.00    957 166L JNC    138.00 66 -0.06008   -41.0   81.0
------------------------------------------------------------------
                                                                   OPEN 155 [BENALTO4
240.00] TO 9000 [DIDSBURY_NEW240.00] CKT 18
   665.8     68 N HOLDE7    138.00     65 BARDO  7    138.00 74 -0.02417   -68.9   85.0
------------------------------------------------------------------
                                                                   OPEN 155 [BENALTO4
240.00] TO 9000 [DIDSBURY_NEW240.00] CKT 18
   669.6    128 ELLERSLI    240.00     81 BIGSTON4    240.00 14  0.16801   368.5  481.0 OPEN 155 [BENALTO4
240.00] TO 135 [SUNDANC4    240.00] CKT 26
   670.6    128 ELLERSLI    240.00     81 BIGSTON4    240.00 14  0.16797   368.4  481.0 OPEN 155 [BENALTO4
240.00] TO 135 [SUNDANC4    240.00] CKT 22
   672.8    152 RED DEE4    240.00    988 CROSSF T    240.00 01  0.16355   298.0  408.0 OPEN 155 [BENALTO4
240.00] TO 161 [SARCEE 4    240.00] CKT 06
   674.2    152 RED DEE4    240.00    988 CROSSF T    240.00 01  0.16355   297.7  408.0 OPEN 155 [BENALTO4
240.00] TO 161 [SARCEE 4    240.00] CKT 28
   676.1    155 BENALTO4    240.00    161 SARCEE 4    240.00 06  0.16714   336.0  449.0
------------------------------------------------------------------
                                                                  OPEN 9000
[DIDSBURY_NEW240.00] TO 187 [BEDDING1    240.00] CKT 18
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   680.6    101 COOKING7    138.00     65 BARDO  7    138.00 74  0.01713    73.3   85.0 OPEN 374 [BIGSTON7
138.00] TO 804 [803/804X    138.00] CKT 04
   681.9    128 ELLERSLI    240.00  99500 PONOKA_NEW  240.00 10  0.18048   342.9  466.0 OPEN 155 [BENALTO4
240.00] TO 420 [KEEPHIL4    240.00] CKT 90
   683.2    147 GAETZ  4    240.00    152 RED DEE4    240.00 14  0.17120   349.0  466.0 OPEN 152 [RED DEE4
240.00] TO 155 [BENALTO4    240.00] CKT 00
   683.4    101 COOKING7    138.00     65 BARDO  7    138.00 74  0.01713    73.3   85.0 OPEN 93 [WETASKI7
138.00] TO 803 [803/804N    138.00] CKT 04
   685.3    128 ELLERSLI    240.00  99500 PONOKA_NEW  240.00 10  0.18027   342.5  466.0 OPEN 155 [BENALTO4
240.00] TO 420 [KEEPHIL4    240.00] CKT 03
   685.5    101 COOKING7    138.00     65 BARDO  7    138.00 74  0.01607    74.0   85.0 OPEN 81 [BIGSTON4
240.00] TO 374 [BIGSTON7    138.00] CKT T1
   685.5    155 BENALTO4    240.00    161 SARCEE 4    240.00 28  0.16712   334.4  449.0
------------------------------------------------------------                                  OPEN 9000
[DIDSBURY_NEW240.00] TO 187 [BEDDING1    240.00] CKT 18
   686.7    135 SUNDANC4    240.00    155 BENALTO4    240.00 26  0.16432   368.2  481.0 OPEN 155 [BENALTO4
240.00] TO 420 [KEEPHIL4    240.00] CKT 90
   686.7    155 BENALTO4    240.00    135 SUNDANC4    240.00 26 -0.16432  -368.2  481.0 OPEN 155 [BENALTO4
240.00] TO 420 [KEEPHIL4    240.00] CKT 90
   690.2    135 SUNDANC4    240.00    155 BENALTO4    240.00 26  0.16413   367.7  481.0 OPEN 155 [BENALTO4
240.00] TO 420 [KEEPHIL4    240.00] CKT 03
   690.2    155 BENALTO4    240.00    135 SUNDANC4    240.00 26 -0.16413  -367.7  481.0 OPEN 155 [BENALTO4
240.00] TO 420 [KEEPHIL4    240.00] CKT 03
   695.0*    68 N HOLDE7    138.00     65 BARDO  7    138.00 74 -0.02317   -68.9   85.0 OPEN 155 [BENALTO4
240.00] TO 161 [SARCEE 4    240.00] CKT 06
   695.4    128 ELLERSLI    240.00  99500 PONOKA_NEW  240.00 10  0.18304   338.7  466.0 OPEN 147 [GAETZ  4
240.00] TO 152 [RED DEE4    240.00] CKT 14
   695.9    128 ELLERSLI    240.00     81 BIGSTON4    240.00 14  0.16576   365.6  481.0 OPEN 155 [BENALTO4
240.00] TO 420 [KEEPHIL4    240.00] CKT 90
   696.3    123 DIDSBURY    138.00    982 MADDEN T    138.00 80  0.03476    97.8  122.0 OPEN 155 [BENALTO4
240.00] TO 161 [SARCEE 4    240.00] CKT 06
   698.9    123 DIDSBURY    138.00    982 MADDEN T    138.00 80  0.03476    97.7  122.0 OPEN 155 [BENALTO4
240.00] TO 161 [SARCEE 4    240.00] CKT 28
   699.6    128 ELLERSLI    240.00     81 BIGSTON4    240.00 14  0.16556   365.2  481.0 OPEN 155 [BENALTO4
240.00] TO 420 [KEEPHIL4    240.00] CKT 03
   699.9    155 BENALTO4    240.00    135 SUNDANC4    240.00 22 -0.15542  -357.2  466.0 OPEN 155 [BENALTO4
240.00] TO 995 [W.GRN TP    240.00] CKT 95
   699.9    135 SUNDANC4    240.00    155 BENALTO4    240.00 22  0.15542   357.2  466.0 OPEN 155 [BENALTO4
240.00] TO 995 [W.GRN TP    240.00] CKT 95
   717.1    128 ELLERSLI    240.00     81 BIGSTON4    240.00 14  0.15987   366.4  481.0 OPEN 152 [RED DEE4
240.00] TO 155 [BENALTO4    240.00] CKT 00
   729.7     81 BIGSTON4    240.00    147 GAETZ  4    240.00 14  0.22541   334.5  499.0
------------------------------------------------------------                      OPEN 152 [RED DEE4
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240.00] TO 99500 [PONOKA_NEW  240.00] CKT 10
   758.0    101 COOKING7    138.00     65 BARDO  7    138.00 74  0.02267    67.8   85.0 OPEN 155 [BENALTO4
240.00] TO 135 [SUNDANC4    240.00] CKT 26
   759.0*   101 COOKING7    138.00     65 BARDO  7    138.00 74  0.02266    67.8   85.0 OPEN 155 [BENALTO4
240.00] TO 135 [SUNDANC4    240.00] CKT 22
   768.6    152 RED DEE4    240.00  99700 INNISFAIL_NE240.00 29  0.17441   331.9  466.0 OPEN 152 [RED DEE4
240.00] TO 988 [CROSSF T    240.00] CKT 01
   782.3    123 DIDSBURY    138.00    982 MADDEN T    138.00 80  0.03514    94.5  122.0
-----------------------------------------------------------------
                                                                                    OPEN 99700
[INNISFAIL_NE240.00] TO 160 [JANET  4    240.00] CKT 29
   782.6    135 SUNDANC4    240.00    155 BENALTO4    240.00 22  0.15595   343.9  466.0 OPEN 147 [GAETZ  4
240.00] TO 152 [RED DEE4    240.00] CKT 14
   782.6    155 BENALTO4    240.00    135 SUNDANC4    240.00 22 -0.15595  -343.9  466.0 OPEN 147 [GAETZ  4
240.00] TO 152 [RED DEE4    240.00] CKT 14
   787.7    107 SUNDRE 7    138.00    883 EAGLE TP    138.00 19  0.06008    72.7  120.0
-----------------------------------------------------------------
                                                                                     OPEN 155 [BENALTO4
240.00] TO 9000 [DIDSBURY_NEW240.00] CKT 18
   789.1    135 SUNDANC4    240.00    155 BENALTO4    240.00 26  0.15570   358.1  481.0 OPEN 155 [BENALTO4
240.00] TO 995 [W.GRN TP    240.00] CKT 95
   789.1    155 BENALTO4    240.00    135 SUNDANC4    240.00 26 -0.15570  -358.1  481.0 OPEN 155 [BENALTO4
240.00] TO 995 [W.GRN TP    240.00] CKT 95
   805.9    152 RED DEE4    240.00  99500 PONOKA_NEW  240.00 10 -0.18447  -317.3  466.0 OPEN 155 [BENALTO4
240.00] TO 135 [SUNDANC4    240.00] CKT 26
   806.9    152 RED DEE4    240.00  99500 PONOKA_NEW  240.00 10 -0.18442  -317.2  466.0 OPEN 155 [BENALTO4
240.00] TO 135 [SUNDANC4    240.00] CKT 22
   820.0    147 GAETZ  4    240.00    152 RED DEE4    240.00 14  0.17193   325.0  466.0 OPEN 155 [BENALTO4
240.00] TO 135 [SUNDANC4    240.00] CKT 26
   821.0    147 GAETZ  4    240.00    152 RED DEE4    240.00 14  0.17189   324.9  466.0 OPEN 155 [BENALTO4
240.00] TO 135 [SUNDANC4    240.00] CKT 22
   826.2    155 BENALTO4    240.00    161 SARCEE 4    240.00 06  0.14577   328.6  449.0 OPEN 152 [RED DEE4
240.00] TO 988 [CROSSF T    240.00] CKT 01
   826.5    155 BENALTO4    240.00    161 SARCEE 4    240.00 06  0.13761   335.3  449.0 OPEN 152 [RED DEE4
240.00] TO 155 [BENALTO4    240.00] CKT 00
   836.7    152 RED DEE4    240.00  99700 INNISFAIL_NE240.00 29  0.16870   324.8  466.0 OPEN 152 [RED DEE4
240.00] TO 160 [JANET  4    240.00] CKT 25
   837.0    155 BENALTO4    240.00    161 SARCEE 4    240.00 28  0.14576   327.0  449.0 OPEN 152 [RED DEE4
240.00] TO 988 [CROSSF T    240.00] CKT 01
   837.9    155 BENALTO4    240.00    161 SARCEE 4    240.00 28  0.13760   333.7  449.0 OPEN 152 [RED DEE4
240.00] TO 155 [BENALTO4    240.00] CKT 00
   840.4    107 SUNDRE 7    138.00    370 SHELL C7    138.00 19 -0.04189   -84.8  120.0
-----------------------------------------------------------------
                                                                                    OPEN 152 [RED DEE4
240.00] TO 99700 [INNISFAIL_NE240.00] CKT 29
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   843.1     25 ENTWIST8    69.000     28 MOON LA8    69.000 29  0.00843    21.9   29.0 OPEN 155 [BENALTO4
240.00] TO 135 [SUNDANC4    240.00] CKT 26
   844.0    117 RED DE A    138.00    118 RED DE B    138.00 1   0.04489    83.1  121.0 OPEN 147 [GAETZ  4
240.00] TO 152 [RED DEE4    240.00] CKT 14
   845.2     25 ENTWIST8    69.000     28 MOON LA8    69.000 29  0.00843    21.9   29.0 OPEN 155 [BENALTO4
240.00] TO 135 [SUNDANC4    240.00] CKT 22
   848.1    152 RED DEE4    240.00  99500 PONOKA_NEW  240.00 10 -0.17587  -316.9  466.0 OPEN 152 [RED DEE4
240.00] TO 155 [BENALTO4    240.00] CKT 00
   848.8     20 EDSON  7    138.00     39 CYNTHIA7    138.00 02  0.03345    56.6   85.0 OPEN 155 [BENALTO4
240.00] TO 135 [SUNDANC4    240.00] CKT 26
   851.1     20 EDSON  7    138.00     39 CYNTHIA7    138.00 02  0.03343    56.5   85.0 OPEN 155 [BENALTO4
240.00] TO 135 [SUNDANC4    240.00] CKT 22
   860.4    420 KEEPHIL4    240.00    155 BENALTO4    240.00 90  0.14575   340.6  466.0 OPEN 155 [BENALTO4
240.00] TO 135 [SUNDANC4    240.00] CKT 26
   860.4    155 BENALTO4    240.00    420 KEEPHIL4    240.00 90 -0.14575  -340.6  466.0 OPEN 155 [BENALTO4
240.00] TO 135 [SUNDANC4    240.00] CKT 26
   860.5    152 RED DEE4    240.00  99500 PONOKA_NEW  240.00 10 -0.18048  -310.7  466.0 OPEN 155 [BENALTO4
240.00] TO 420 [KEEPHIL4    240.00] CKT 90
   861.7    420 KEEPHIL4    240.00    155 BENALTO4    240.00 90  0.14571   340.4  466.0 OPEN 155 [BENALTO4
240.00] TO 135 [SUNDANC4    240.00] CKT 22
   861.7    155 BENALTO4    240.00    420 KEEPHIL4    240.00 90 -0.14571  -340.4  466.0 OPEN 155 [BENALTO4
240.00] TO 135 [SUNDANC4    240.00] CKT 22
   864.2    152 RED DEE4    240.00  99500 PONOKA_NEW  240.00 10 -0.18027  -310.2  466.0 OPEN 155 [BENALTO4
240.00] TO 420 [KEEPHIL4    240.00] CKT 03
   867.1    152 RED DEE4    240.00    988 CROSSF T    240.00 01  0.14721   280.3  408.0
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                                                                                          OPEN 152 [RED DEE4
240.00] TO 1422 [NEVIS  4    240.00] CKT 12
   871.5    155 BENALTO4    240.00    135 SUNDANC4    240.00 26 -0.15622  -344.9  481.0 OPEN 147 [GAETZ  4
240.00] TO 152 [RED DEE4    240.00] CKT 14
   871.5    135 SUNDANC4    240.00    155 BENALTO4    240.00 26  0.15622   344.9  481.0 OPEN 147 [GAETZ  4
240.00] TO 152 [RED DEE4    240.00] CKT 14
   871.5    152 RED DEE4    240.00  99500 PONOKA_NEW  240.00 10 -0.18304  -306.5  466.0 OPEN 147 [GAETZ  4
240.00] TO 152 [RED DEE4    240.00] CKT 14
   871.9    155 BENALTO4    240.00    161 SARCEE 4    240.00 06  0.14263   324.6  449.0 OPEN 152 [RED DEE4
240.00] TO 160 [JANET  4    240.00] CKT 25
   872.1    147 GAETZ  4    240.00    152 RED DEE4    240.00 14  0.16134   325.3  466.0 OPEN 115 [S RED DE
138.00] TO 119 [N RED D7    138.00] CKT 80
   872.6    128 ELLERSLI    240.00  99500 PONOKA_NEW  240.00 10  0.16777   319.6  466.0 OPEN 155 [BENALTO4
240.00] TO 995 [W.GRN TP    240.00] CKT 95
   879.9    128 ELLERSLI    240.00  99500 PONOKA_NEW  240.00 10  0.17187   314.8  466.0
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                                                                                          OPEN 155 [BENALTO4
240.00] TO 9000 [DIDSBURY_NEW240.00] CKT 18
   880.1    155 BENALTO4    240.00    161 SARCEE 4    240.00 06  0.14173   324.3  449.0
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                                                          OPEN 152 [RED DEE4
240.00] TO 99700 [INNISFAIL_NE240.00] CKT 29
   880.8    147 GAETZ  4    240.00    152 RED DEE4    240.00 14  0.16797   318.1  466.0 OPEN 155 [BENALTO4
240.00] TO 420 [KEEPHIL4    240.00] CKT 90
   882.9    155 BENALTO4    240.00    161 SARCEE 4    240.00 28  0.14262   323.1  449.0 OPEN 152 [RED DEE4
240.00] TO 160 [JANET  4    240.00] CKT 25
   883.9    155 BENALTO4    240.00    135 SUNDANC4    240.00 22 -0.15009  -333.3  466.0
------------------------------------------------------------------
                                                          OPEN 152 [RED DEE4
240.00] TO 99700 [INNISFAIL_NE240.00] CKT 29
   883.9    135 SUNDANC4    240.00    155 BENALTO4    240.00 22  0.15009   333.3  466.0
------------------------------------------------------------------
                                                          OPEN 152 [RED DEE4
240.00] TO 99700 [INNISFAIL_NE240.00] CKT 29
   884.1    147 GAETZ  4    240.00    152 RED DEE4    240.00 14  0.16780   317.7  466.0 OPEN 155 [BENALTO4
240.00] TO 420 [KEEPHIL4    240.00] CKT 03
   884.8    152 RED DEE4    240.00    155 BENALTO4    240.00 00 -0.17005  -433.5  584.0
------------------------------------------------------------------
                                                           OPEN 155 [BENALTO4
240.00] TO 9000 [DIDSBURY_NEW240.00] CKT 18
   885.8    155 BENALTO4    240.00    420 KEEPHIL4    240.00 90 -0.14877  -334.2  466.0
------------------------------------------------------------------
                                                          OPEN 152 [RED DEE4
240.00] TO 99500 [PONOKA_NEW  240.00] CKT 10
   885.8    420 KEEPHIL4    240.00    155 BENALTO4    240.00 90  0.14877   334.2  466.0
------------------------------------------------------------------
                                                          OPEN 152 [RED DEE4
240.00] TO 99500 [PONOKA_NEW  240.00] CKT 10
   888.3    420 KEEPHIL4    240.00    155 BENALTO4    240.00 03  0.14449   337.6  466.0 OPEN 155 [BENALTO4
240.00] TO 135 [SUNDANC4    240.00] CKT 26
   888.3    155 BENALTO4    240.00    420 KEEPHIL4    240.00 03 -0.14449  -337.6  466.0 OPEN 155 [BENALTO4
240.00] TO 135 [SUNDANC4    240.00] CKT 26
   889.6    420 KEEPHIL4    240.00    155 BENALTO4    240.00 03  0.14445   337.5  466.0 OPEN 155 [BENALTO4
240.00] TO 135 [SUNDANC4    240.00] CKT 22
   889.6    155 BENALTO4    240.00    420 KEEPHIL4    240.00 03 -0.14445  -337.5  466.0 OPEN 155 [BENALTO4
240.00] TO 135 [SUNDANC4    240.00] CKT 22
   891.2    155 BENALTO4    240.00    161 SARCEE 4    240.00 28  0.14172   322.7  449.0
------------------------------------------------------------------
                                                          OPEN 152 [RED DEE4
240.00] TO 99700 [INNISFAIL_NE240.00] CKT 29
   891.6    135 SUNDANC4    240.00    155 BENALTO4    240.00 22  0.14982   332.4  466.0 OPEN 152 [RED DEE4
240.00] TO 988 [CROSSF T    240.00] CKT 01
   891.6    155 BENALTO4    240.00    135 SUNDANC4    240.00 22 -0.14982  -332.4  466.0 OPEN 152 [RED DEE4
240.00] TO 988 [CROSSF T    240.00] CKT 01
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   898.2*   155 BENALTO4    240.00    135 SUNDANC4    240.00 22 -0.14938  -331.8  466.0 OPEN 152 [RED DEE4
240.00] TO 160 [JANET  4    240.00] CKT 25
   898.2*   135 SUNDANC4    240.00    155 BENALTO4    240.00 22  0.14938   331.8  466.0 OPEN 152 [RED DEE4
240.00] TO 160 [JANET  4    240.00] CKT 25
   898.2    155 BENALTO4    240.00    420 KEEPHIL4    240.00 90 -0.15011  -331.2  466.0 OPEN 147 [GAETZ  4
240.00] TO 81 [BIGSTON4    240.00] CKT 14
   898.2    420 KEEPHIL4    240.00    155 BENALTO4    240.00 90  0.15011   331.2  466.0 OPEN 147 [GAETZ  4
240.00] TO 81 [BIGSTON4    240.00] CKT 14
   908.9    155 BENALTO4    240.00    161 SARCEE 4    240.00 06  0.14112   320.7  449.0
-------------------------------------------------------------------
                                                                                    OPEN 99700
[INNISFAIL_NE240.00] TO 160 [JANET  4    240.00] CKT 29
   909.7    128 ELLERSLI    240.00     81 BIGSTON4    240.00 14  0.15311   341.7  481.0 OPEN 155 [BENALTO4
240.00] TO 995 [W.GRN TP    240.00] CKT 95
   912.3    128 ELLERSLI    240.00     81 BIGSTON4    240.00 14  0.15700   337.8  481.0
-------------------------------------------------------------------
                                                                                     OPEN 155 [BENALTO4
240.00] TO 9000 [DIDSBURY_NEW240.00] CKT 18
   913.2    155 BENALTO4    240.00    420 KEEPHIL4    240.00 03 -0.14749  -331.3  466.0
-------------------------------------------------------------------
                                                                                    OPEN 152 [RED DEE4
240.00] TO 99500 [PONOKA_NEW  240.00] CKT 10
   913.2    420 KEEPHIL4    240.00    155 BENALTO4    240.00 03  0.14749   331.3  466.0
-------------------------------------------------------------------
                                                                                    OPEN 152 [RED DEE4
240.00] TO 99500 [PONOKA_NEW  240.00] CKT 10
   914.3    123 DIDSBURY    138.00    982 MADDEN T    138.00 80  0.03347    91.4  122.0 OPEN 152 [RED DEE4
240.00] TO 988 [CROSSF T    240.00] CKT 01
   919.2*   128 ELLERSLI    240.00  99500 PONOKA_NEW  240.00 10  0.16743   312.1  466.0 OPEN 155 [BENALTO4
240.00] TO 161 [SARCEE 4    240.00] CKT 06
   920.1    155 BENALTO4    240.00    161 SARCEE 4    240.00 28  0.14110   319.2  449.0
-------------------------------------------------------------------
                                                                                    OPEN 99700
[INNISFAIL_NE240.00] TO 160 [JANET  4    240.00] CKT 29
   925.3    155 BENALTO4    240.00    420 KEEPHIL4    240.00 03 -0.14881  -328.3  466.0 OPEN 147 [GAETZ  4
240.00] TO 81 [BIGSTON4    240.00] CKT 14
   925.3    420 KEEPHIL4    240.00    155 BENALTO4    240.00 03  0.14881   328.3  466.0 OPEN 147 [GAETZ  4
240.00] TO 81 [BIGSTON4    240.00] CKT 14
   948.5    123 DIDSBURY    138.00   9000 DIDSBURY_NEW240.00 T1 -0.05299  -149.7  200.0
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                                                                                     OPEN 9000
[DIDSBURY_NEW240.00] TO 187 [BEDDING1    240.00] CKT 18
   949.0    128 ELLERSLI    240.00     81 BIGSTON4    240.00 14  0.14861   340.0  481.0 OPEN 355 [NOVA C27
138.00] TO 383 [JOFFRE 7    138.00] CKT 2
   953.4*   128 ELLERSLI    240.00     81 BIGSTON4    240.00 14  0.15288   335.2  481.0 OPEN 155 [BENALTO4
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240.00] TO 161 [SARCEE 4    240.00] CKT 06
   969.6    147 GAETZ  4    240.00    152 RED DEE4    240.00 14  0.16134   309.6  466.0 OPEN 115 [S RED DE
138.00] TO 117 [RED DE A    138.00] CKT 80
   976.2    155 BENALTO4    240.00    135 SUNDANC4    240.00 26 -0.15035  -334.2  481.0
------------------------------------------------------------------                    OPEN 152 [RED DEE4
240.00] TO 99700 [INNISFAIL_NE240.00] CKT 29
   976.2    135 SUNDANC4    240.00    155 BENALTO4    240.00 26  0.15035   334.2  481.0
------------------------------------------------------------------                    OPEN 152 [RED DEE4
240.00] TO 99700 [INNISFAIL_NE240.00] CKT 29
   983.0    152 RED DEE4    240.00    988 CROSSF T    240.00 01  0.14775   262.8  408.0 OPEN 123 [DIDSBURY
138.00] TO 982 [MADDEN T    138.00] CKT 80
   984.1    155 BENALTO4    240.00    135 SUNDANC4    240.00 26 -0.15009  -333.3  481.0 OPEN 152 [RED DEE4
240.00] TO 988 [CROSSF T    240.00] CKT 01
   984.1    135 SUNDANC4    240.00    155 BENALTO4    240.00 26  0.15009   333.3  481.0 OPEN 152 [RED DEE4
240.00] TO 988 [CROSSF T    240.00] CKT 01
   988.1    152 RED DEE4    240.00  99700 INNISFAIL_NE240.00 29  0.15677   311.1  466.0 OPEN 155 [BENALTO4
240.00] TO 161 [SARCEE 4    240.00] CKT 06
   988.6    123 DIDSBURY    138.00    982 MADDEN T    138.00 80  0.03239    90.0  122.0 OPEN 152 [RED DEE4
240.00] TO 160 [JANET  4    240.00] CKT 25
   989.5    152 RED DEE4    240.00  99700 INNISFAIL_NE240.00 29  0.15677   310.9  466.0 OPEN 155 [BENALTO4
240.00] TO 161 [SARCEE 4    240.00] CKT 28
   991.0*   155 BENALTO4    240.00    135 SUNDANC4    240.00 26 -0.14965  -332.7  481.0 OPEN 152 [RED DEE4
240.00] TO 160 [JANET  4    240.00] CKT 25
   991.0*   135 SUNDANC4    240.00    155 BENALTO4    240.00 26  0.14965   332.7  481.0 OPEN 152 [RED DEE4
240.00] TO 160 [JANET  4    240.00] CKT 25
   993.5     81 BIGSTON4    240.00    147 GAETZ  4    240.00 14  0.19775   302.5  499.0 OPEN 155 [BENALTO4
240.00] TO 135 [SUNDANC4    240.00] CKT 26
   994.6     81 BIGSTON4    240.00    147 GAETZ  4    240.00 14  0.19770   302.4  499.0 OPEN 155 [BENALTO4
240.00] TO 135 [SUNDANC4    240.00] CKT 22
   996.1*   152 RED DEE4    240.00    988 CROSSF T    240.00 01  0.14774   260.8  408.0 OPEN 155 [BENALTO4
240.00] TO 135 [SUNDANC4    240.00] CKT 26
  1009.8    124 HARMATT7    138.00    883 EAGLE TP    138.00 19 -0.06008   -59.3  120.0
------------------------------------------------------------------                     OPEN 155 [BENALTO4
240.00] TO 9000 [DIDSBURY_NEW240.00] CKT 18
  1020.0    147 GAETZ  4    240.00    152 RED DEE4    240.00 14  0.16376   299.0  466.0
------------------------------------------------------------------                     OPEN 155 [BENALTO4
240.00] TO 9000 [DIDSBURY_NEW240.00] CKT 18
  1047.5*   147 GAETZ  4    240.00    152 RED DEE4    240.00 14  0.16401   294.2  466.0
------------------------------------------------------------------                     OPEN 9000
[DIDSBURY_NEW240.00] TO 187 [BEDDING1    240.00] CKT 18
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  1059.9    420 KEEPHIL4    240.00    155 BENALTO4    240.00 90  0.13361   324.4  466.0 OPEN 155 [BENALTO4
240.00] TO 995 [W.GRN TP    240.00] CKT 95
  1059.9    155 BENALTO4    240.00    420 KEEPHIL4    240.00 90 -0.13361  -324.4  466.0 OPEN 155 [BENALTO4
240.00] TO 995 [W.GRN TP    240.00] CKT 95
  1064.8    152 RED DEE4    240.00  99500 PONOKA_NEW  240.00 10 -0.16777  -287.4  466.0 OPEN 155 [BENALTO4
240.00] TO 995 [W.GRN TP    240.00] CKT 95
  1065.0     81 BIGSTON4    240.00    147 GAETZ  4    240.00 14  0.19274   293.7  499.0 OPEN 155 [BENALTO4
240.00] TO 420 [KEEPHIL4    240.00] CKT 90
  1067.5    152 RED DEE4    240.00  99500 PONOKA_NEW  240.00 10 -0.17187  -282.5  466.0
------------------------------------------------------------------                 OPEN 155 [BENALTO4
240.00] TO 9000 [DIDSBURY_NEW240.00] CKT 18
  1068.8     81 BIGSTON4    240.00    147 GAETZ  4    240.00 14  0.19252   293.2  499.0 OPEN 155 [BENALTO4
240.00] TO 420 [KEEPHIL4    240.00] CKT 03
  1073.6     81 BIGSTON4    240.00    147 GAETZ  4    240.00 14  0.18722   298.0  499.0 OPEN 152 [RED DEE4
240.00] TO 155 [BENALTO4    240.00] CKT 00
  1076.8    152 RED DEE4    240.00    155 BENALTO4    240.00 00 -0.15292  -419.3  584.0
------------------------------------------------------------------             OPEN 152 [RED DEE4
240.00] TO 99500 [PONOKA_NEW  240.00] CKT 10
  1087.9    155 BENALTO4    240.00    161 SARCEE 4    240.00 06  0.13259   304.8  449.0
------------------------------------------------------------------             OPEN 152 [RED DEE4
240.00] TO 99500 [PONOKA_NEW  240.00] CKT 10
  1090.3    420 KEEPHIL4    240.00    155 BENALTO4    240.00 03  0.13245   321.6  466.0 OPEN 155 [BENALTO4
240.00] TO 995 [W.GRN TP    240.00] CKT 95
  1090.3    155 BENALTO4    240.00    420 KEEPHIL4    240.00 03 -0.13245  -321.6  466.0 OPEN 155 [BENALTO4
240.00] TO 995 [W.GRN TP    240.00] CKT 95
  1091.9    121 OLDS   7    138.00    123 DIDSBURY    138.00 80  0.05512    61.8  122.0
------------------------------------------------------------------                 OPEN 155 [BENALTO4
240.00] TO 9000 [DIDSBURY_NEW240.00] CKT 18
  1099.2*   155 BENALTO4    240.00    161 SARCEE 4    240.00 06  0.13252   303.3  449.0 OPEN 147 [GAETZ  4
240.00] TO 81 [BIGSTON4    240.00] CKT 14
  1099.8    155 BENALTO4    240.00    161 SARCEE 4    240.00 28  0.13257   303.2  449.0
------------------------------------------------------------------             OPEN 152 [RED DEE4
240.00] TO 99500 [PONOKA_NEW  240.00] CKT 10
  1111.1*   155 BENALTO4    240.00    161 SARCEE 4    240.00 28  0.13251   301.8  449.0 OPEN 147 [GAETZ  4
240.00] TO 81 [BIGSTON4    240.00] CKT 14
  1111.8*   152 RED DEE4    240.00  99500 PONOKA_NEW  240.00 10 -0.16743  -279.9  466.0 OPEN 155 [BENALTO4
240.00] TO 161 [SARCEE 4    240.00] CKT 06
  1155.1    420 KEEPHIL4    240.00    155 BENALTO4    240.00 90  0.13395   311.3  466.0 OPEN 147 [GAETZ  4
240.00] TO 152 [RED DEE4    240.00] CKT 14
  1155.1    155 BENALTO4    240.00    420 KEEPHIL4    240.00 90 -0.13395  -311.3  466.0 OPEN 147 [GAETZ  4
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240.00] TO 152 [RED DEE4    240.00] CKT 14
  1162.3    152 RED DEE4    240.00    155 BENALTO4    240.00 00 -0.15372  -405.3  584.0 OPEN 147 [GAETZ  4
240.00] TO 81 [BIGSTON4    240.00] CKT 14
  1185.5    155 BENALTO4    240.00    420 KEEPHIL4    240.00 03 -0.13279  -308.6  466.0 OPEN 147 [GAETZ  4
240.00] TO 152 [RED DEE4    240.00] CKT 14
  1185.5    420 KEEPHIL4    240.00    155 BENALTO4    240.00 03  0.13279   308.6  466.0 OPEN 147 [GAETZ  4
240.00] TO 152 [RED DEE4    240.00] CKT 14
  1195.4    152 RED DEE4    240.00  99700 INNISFAIL_NE240.00 29  0.14131   297.1  466.0
-------------------------------------------------------------------
                                                                          OPEN 152 [RED DEE4
240.00] TO 1422 [NEVIS  4    240.00] CKT 12
  1224.2    152 RED DEE4    240.00  99700 INNISFAIL_NE240.00 29  0.14697   286.1  466.0 OPEN 107 [SUNDRE 7
138.00] TO 370 [SHELL C7    138.00] CKT 19
  1227.0    107 SUNDRE 7    138.00    370 SHELL C7    138.00 19 -0.03588   -76.0  120.0
-------------------------------------------------------------------
                                                                      OPEN 99700
[INNISFAIL_NE240.00] TO 120 [INNISFA7    138.00] CKT T1
  1230.1    152 RED DEE4    240.00  99700 INNISFAIL_NE240.00 29  0.15025   281.2  466.0
-------------------------------------------------------------------
                                                                       OPEN 9000
[DIDSBURY_NEW240.00] TO 187 [BEDDING1    240.00] CKT 18
  1259.6     25 ENTWIST8    69.000     28 MOON LA8    69.000 29  0.00771    19.3   29.0 OPEN 147 [GAETZ  4
240.00] TO 81 [BIGSTON4    240.00] CKT 14
  1266.1    107 SUNDRE 7    138.00    370 SHELL C7    138.00 19 -0.03581   -74.7  120.0 OPEN 155 [BENALTO4
240.00] TO 161 [SARCEE 4    240.00] CKT 06
  1267.6    107 SUNDRE 7    138.00    370 SHELL C7    138.00 19 -0.03581   -74.6  120.0 OPEN 155 [BENALTO4
240.00] TO 161 [SARCEE 4    240.00] CKT 28
  1278.0     81 BIGSTON4    240.00    147 GAETZ  4    240.00 14  0.17944   269.7  499.0 OPEN 155 [BENALTO4
240.00] TO 995 [W.GRN TP    240.00] CKT 95
  1282.0    155 BENALTO4    240.00    420 KEEPHIL4    240.00 90 -0.12845  -301.3  466.0
-------------------------------------------------------------------
                                                                      OPEN 152 [RED DEE4
240.00] TO 99700 [INNISFAIL_NE240.00] CKT 29
  1282.0    420 KEEPHIL4    240.00    155 BENALTO4    240.00 90  0.12845   301.3  466.0
-------------------------------------------------------------------
                                                                      OPEN 152 [RED DEE4
240.00] TO 99700 [INNISFAIL_NE240.00] CKT 29
  1283.4    152 RED DEE4    240.00  99700 INNISFAIL_NE240.00 29  0.14697   277.4  466.0 OPEN 107 [SUNDRE 7
138.00] TO 883 [EAGLE TP    138.00] CKT 19
  1285.9     81 BIGSTON4    240.00    147 GAETZ  4    240.00 14  0.18326   263.4  499.0
-------------------------------------------------------------------
                                                                       OPEN 155 [BENALTO4
240.00] TO 9000 [DIDSBURY_NEW240.00] CKT 18
  1291.4    155 BENALTO4    240.00    420 KEEPHIL4    240.00 90 -0.12820  -300.4  466.0 OPEN 152 [RED DEE4
240.00] TO 988 [CROSSF T    240.00] CKT 01
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  1291.4    420 KEEPHIL4    240.00    155 BENALTO4    240.00 90  0.12820   300.4  466.0 OPEN 152 [RED DEE4
240.00] TO 988 [CROSSF T    240.00] CKT 01
  1293.0*   152 RED DEE4    240.00  99700 INNISFAIL_NE240.00 29  0.14235   281.9  466.0 OPEN 99 [BENALTO7
138.00] TO 882 [SCHRA TP    138.00] CKT 48
  1300.1*   155 BENALTO4    240.00    420 KEEPHIL4    240.00 90 -0.12778  -299.9  466.0 OPEN 152 [RED DEE4
240.00] TO 160 [JANET  4    240.00] CKT 25
  1300.1*   420 KEEPHIL4    240.00    155 BENALTO4    240.00 90  0.12778   299.9  466.0 OPEN 152 [RED DEE4
240.00] TO 160 [JANET  4    240.00] CKT 25
  1302.3    152 RED DEE4    240.00    160 JANET  4    240.00 25  0.15327   281.4  481.0 OPEN 152 [RED DEE4
240.00] TO 988 [CROSSF T    240.00] CKT 01
  1306.9    123 DIDSBURY    138.00    982 MADDEN T    138.00 80  0.02789    85.5  122.0
------------------------------------------------------------------                OPEN 152 [RED DEE4
240.00] TO 1422 [NEVIS  4    240.00] CKT 12
  1313.7    155 BENALTO4    240.00    420 KEEPHIL4    240.00 03 -0.12733  -298.7  466.0
------------------------------------------------------------------                OPEN 152 [RED DEE4
240.00] TO 99700 [INNISFAIL_NE240.00] CKT 29
  1313.7    420 KEEPHIL4    240.00    155 BENALTO4    240.00 03  0.12733   298.7  466.0
------------------------------------------------------------------                OPEN 152 [RED DEE4
240.00] TO 99700 [INNISFAIL_NE240.00] CKT 29
  1313.7     25 ENTWIST8    69.000     28 MOON LA8    69.000 29  0.00748    19.2   29.0
------------------------------------------------------------------                OPEN 152 [RED DEE4
240.00] TO 99500 [PONOKA_NEW  240.00] CKT 10
  1315.8    120 INNISFA7    138.00    121 OLDS   7    138.00 80  0.04016    69.2  122.0
------------------------------------------------------------------                OPEN 99700
[INNISFAIL_NE240.00] TO 160 [JANET  4    240.00] CKT 29
  1315.8    123 DIDSBURY    138.00    982 MADDEN T    138.00 80  0.02849    84.5  122.0 OPEN 152 [RED DEE4
240.00] TO 155 [BENALTO4    240.00] CKT 00
  1317.9    124 HARMATT7    138.00    957 166L JNC    138.00 66  0.04189    22.8   78.0
------------------------------------------------------------------                OPEN 152 [RED DEE4
240.00] TO 99700 [INNISFAIL_NE240.00] CKT 29
  1323.1    155 BENALTO4    240.00    420 KEEPHIL4    240.00 03 -0.12709  -297.9  466.0 OPEN 152 [RED DEE4
240.00] TO 988 [CROSSF T    240.00] CKT 01
  1323.1    420 KEEPHIL4    240.00    155 BENALTO4    240.00 03  0.12709   297.9  466.0 OPEN 152 [RED DEE4
240.00] TO 988 [CROSSF T    240.00] CKT 01
  1327.3     81 BIGSTON4    240.00    147 GAETZ  4    240.00 14  0.17391   268.2  499.0 OPEN 355 [NOVA C27
138.00] TO 383 [JOFFRE 7    138.00] CKT 2
  1331.9*   155 BENALTO4    240.00    420 KEEPHIL4    240.00 03 -0.12667  -297.3  466.0 OPEN 152 [RED DEE4
240.00] TO 160 [JANET  4    240.00] CKT 25
  1331.9*   420 KEEPHIL4    240.00    155 BENALTO4    240.00 03  0.12667   297.3  466.0 OPEN 152 [RED DEE4
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240.00] TO 160 [JANET  4    240.00] CKT 25
  1336.8*    81 BIGSTON4    240.00    147 GAETZ  4    240.00 14  0.17857   260.3  499.0 OPEN 155 [BENALTO4
240.00] TO 161 [SARCEE 4    240.00] CKT 06
  1336.9    107 SUNDRE 7    138.00    370 SHELL C7    138.00 19 -0.03588   -72.0  120.0 OPEN 120 [INNISFA7
138.00] TO 121 [OLDS   7    138.00] CKT 80
  1349.3    152 RED DEE4    240.00    155 BENALTO4    240.00 00 -0.12881  -410.2  584.0 OPEN 155 [BENALTO4
240.00] TO 161 [SARCEE 4    240.00] CKT 06
  1353.7    152 RED DEE4    240.00    155 BENALTO4    240.00 00 -0.12881  -409.6  584.0 OPEN 155 [BENALTO4
240.00] TO 161 [SARCEE 4    240.00] CKT 28
  1353.8    152 RED DEE4    240.00    160 JANET  4    240.00 25  0.14911   279.1  481.0
------------------------------------------------------------------                 OPEN 152 [RED DEE4
240.00] TO 99700 [INNISFAIL_NE240.00] CKT 29
  1375.9    123 DIDSBURY    138.00    982 MADDEN T    138.00 80  0.02751    84.2  122.0 OPEN 205 [AMOCO R7
138.00] TO 890 [AMOCO TP    138.00] CKT 19
  1387.7    123 DIDSBURY    138.00   9000 DIDSBURY_NEW240.00 T1  0.10733    51.1  200.0
------------------------------------------------------------------                  OPEN 155 [BENALTO4
240.00] TO 9000 [DIDSBURY_NEW240.00] CKT 18
  1388.0    152 RED DEE4    240.00    155 BENALTO4    240.00 00 -0.15149  -373.7  584.0
------------------------------------------------------------------                  OPEN 9000
[DIDSBURY_NEW240.00] TO 187 [BEDDING1    240.00] CKT 18
  1388.0    107 SUNDRE 7    138.00    370 SHELL C7    138.00 19 -0.03519   -71.1  120.0 OPEN 152 [RED DEE4
240.00] TO 988 [CROSSF T    240.00] CKT 01
  1399.2*   123 DIDSBURY    138.00    982 MADDEN T    138.00 80  0.02751    83.5  122.0 OPEN 205 [AMOCO R7
138.00] TO 257 [LIMESTO7    138.00] CKT 64
  1405.4    107 SUNDRE 7    138.00    370 SHELL C7    138.00 19 -0.03159   -75.6  120.0 OPEN 205 [AMOCO R7
138.00] TO 890 [AMOCO TP    138.00] CKT 19
  1405.8  99700 INNISFAIL_NE240.00    160 JANET  4    240.00 29  0.15584   246.9  466.0
------------------------------------------------------------------                  OPEN 9000
[DIDSBURY_NEW240.00] TO 187 [BEDDING1    240.00] CKT 18
  1409.3  99700 INNISFAIL_NE240.00    160 JANET  4    240.00 29  0.14629   259.8  466.0 OPEN 152 [RED DEE4
240.00] TO 988 [CROSSF T    240.00] CKT 01
  1427.5     99 BENALTO7    138.00    882 SCHRA TP    138.00 48  0.04111   108.3  167.0
------------------------------------------------------------------                  OPEN 155 [BENALTO4
240.00] TO 9000 [DIDSBURY_NEW240.00] CKT 18
  1431.8     20 EDSON  7    138.00     39 CYNTHIA7    138.00 02  0.02899    43.5   85.0 OPEN 147 [GAETZ  4
240.00] TO 81 [BIGSTON4    240.00] CKT 14
  1437.8    152 RED DEE4    240.00    160 JANET  4    240.00 25  0.15439   259.0  481.0
------------------------------------------------------------------                  OPEN 9000
[DIDSBURY_NEW240.00] TO 187 [BEDDING1    240.00] CKT 18
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  1448.7    107 SUNDRE 7    138.00    370 SHELL C7    138.00 19 -0.03444   -70.1  120.0 OPEN 152 [RED DEE4
240.00] TO 160 [JANET  4    240.00] CKT 25
  1448.8     20 EDSON  7    138.00     39 CYNTHIA7    138.00 02  0.02855    43.6   85.0
------------------------------------------------------------                                  OPEN 152 [RED DEE4
240.00] TO 99500 [PONOKA_NEW  240.00] CKT 10
  1463.9*   107 SUNDRE 7    138.00    370 SHELL C7    138.00 19 -0.03588   -67.5  120.0 OPEN 121 [OLDS   7
138.00] TO 123 [DIDSBURY    138.00] CKT 80
  1468.5    152 RED DEE4    240.00    160 JANET  4    240.00 25  0.14520   267.8  481.0
------------------------------------------------------------                                  OPEN 99700
[INNISFAIL_NE240.00] TO 160 [JANET  4    240.00] CKT 29
  1489.7    152 RED DEE4    240.00    160 JANET  4    240.00 25  0.14648   262.8  481.0
------------------------------------------------------------                                   OPEN 155 [BENALTO4
240.00] TO 9000 [DIDSBURY_NEW240.00] CKT 18
  1490.9    123 DIDSBURY    138.00    957 166L JNC    138.00 66 -0.04189   -18.5   81.0
------------------------------------------------------------                                  OPEN 152 [RED DEE4
240.00] TO 99700 [INNISFAIL_NE240.00] CKT 29
  1492.8  99700 INNISFAIL_NE240.00    160 JANET  4    240.00 29  0.14173   254.4  466.0 OPEN 152 [RED DEE4
240.00] TO 160 [JANET  4    240.00] CKT 25
  1499.2    104 STRACHA7    138.00    890 AMOCO TP    138.00 19  0.01840    92.4  120.0 OPEN 99 [BENALTO7
138.00] TO 882 [SCHRA TP    138.00] CKT 48
  1544.8    152 RED DEE4    240.00    160 JANET  4    240.00 25  0.13899   266.3  481.0 OPEN 155 [BENALTO4
240.00] TO 161 [SARCEE 4    240.00] CKT 06
  1546.4    152 RED DEE4    240.00    160 JANET  4    240.00 25  0.13899   266.1  481.0 OPEN 155 [BENALTO4
240.00] TO 161 [SARCEE 4    240.00] CKT 28
  1607.7    115 S RED DE    138.00    119 N RED D7    138.00 80 -0.09151  -224.9  372.0 OPEN 147 [GAETZ  4
240.00] TO 152 [RED DEE4    240.00] CKT 14
  1647.8  99700 INNISFAIL_NE240.00    160 JANET  4    240.00 29  0.13312   246.6  466.0 OPEN 155 [BENALTO4
240.00] TO 161 [SARCEE 4    240.00] CKT 06
  1649.4  99700 INNISFAIL_NE240.00    160 JANET  4    240.00 29  0.13312   246.4  466.0 OPEN 155 [BENALTO4
240.00] TO 161 [SARCEE 4    240.00] CKT 28
  1666.2    107 SUNDRE 7    138.00    883 EAGLE TP    138.00 19  0.04189    50.2  120.0
------------------------------------------------------------                                  OPEN 152 [RED DEE4
240.00] TO 99700 [INNISFAIL_NE240.00] CKT 29
  1668.1    152 RED DEE4    240.00    155 BENALTO4    240.00 00 -0.12333  -378.3  584.0 OPEN 147 [GAETZ  4
240.00] TO 152 [RED DEE4    240.00] CKT 14
  1670.9    120 INNISFA7    138.00  99700 INNISFAIL_NE240.00 T1 -0.05512  -107.9  200.0
------------------------------------------------------------                                   OPEN 155 [BENALTO4
240.00] TO 9000 [DIDSBURY_NEW240.00] CKT 18
  1701.3     20 EDSON  7    138.00     39 CYNTHIA7    138.00 02  0.02632    40.2   85.0 OPEN 147 [GAETZ  4
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240.00] TO 152 [RED DEE4    240.00] CKT 14
  1766.6  99700 INNISFAIL_NE240.00    160 JANET  4    240.00 29  0.13275   231.5  466.0
-------------------------------------------------------------------
                                                                        OPEN 155 [BENALTO4
240.00] TO 9000 [DIDSBURY_NEW240.00] CKT 18
  1780.5     25 ENTWIST8    69.000     28 MOON LA8    69.000 29  0.00646    17.5   29.0 BASE CASE
  1784.4    124 HARMATT7    138.00    957 166L JNC    138.00 66  0.03588    14.0   78.0
-------------------------------------------------------------------
                                                                           OPEN 99700
[INNISFAIL_NE240.00] TO 120 [INNISFA7    138.00] CKT T1
  1803.4     20 EDSON  7    138.00     39 CYNTHIA7    138.00 02  0.02552    39.0   85.0 OPEN 155 [BENALTO4
240.00] TO 420 [KEEPHIL4    240.00] CKT 90
  1804.3     20 EDSON  7    138.00     39 CYNTHIA7    138.00 02  0.02551    39.0   85.0 OPEN 155 [BENALTO4
240.00] TO 420 [KEEPHIL4    240.00] CKT 03
  1824.6    124 HARMATT7    138.00    957 166L JNC    138.00 66  0.03581    12.7   78.0 OPEN 155 [BENALTO4
240.00] TO 161 [SARCEE 4    240.00] CKT 06
  1826.1    124 HARMATT7    138.00    957 166L JNC    138.00 66  0.03581    12.6   78.0 OPEN 155 [BENALTO4
240.00] TO 161 [SARCEE 4    240.00] CKT 28
  1872.4    152 RED DEE4    240.00    160 JANET  4    240.00 25  0.12353   249.7  481.0
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                                                                        OPEN 152 [RED DEE4
240.00] TO 1422 [NEVIS  4    240.00] CKT 12
  1887.4     20 EDSON  7    138.00     39 CYNTHIA7    138.00 02  0.02501    37.8   85.0 BASE CASE
  1894.3    124 HARMATT7    138.00    957 166L JNC    138.00 66  0.03588    10.0   78.0 OPEN 120 [INNISFA7
138.00] TO 121 [OLDS   7    138.00] CKT 80
  1898.1     99 BENALTO7    138.00    882 SCHRA TP    138.00 48  0.02740   115.0  167.0 OPEN 104 [STRACHA7
138.00] TO 890 [AMOCO TP    138.00] CKT 19
  1912.2    104 STRACHA7    138.00    890 AMOCO TP    138.00 19  0.01840    84.8  120.0 OPEN 370 [SHELL C7
138.00] TO 882 [SCHRA TP    138.00] CKT 48
  1931.1    121 OLDS   7    138.00    123 DIDSBURY    138.00 80  0.04016    44.4  122.0
-------------------------------------------------------------------
                                                                           OPEN 99700
[INNISFAIL_NE240.00] TO 160 [JANET  4    240.00] CKT 29
  1956.4    124 HARMATT7    138.00    957 166L JNC    138.00 66  0.03519     9.1   78.0 OPEN 152 [RED DEE4
240.00] TO 988 [CROSSF T    240.00] CKT 01
  1959.3  99700 INNISFAIL_NE240.00    160 JANET  4    240.00 29  0.12300   225.0  466.0
-------------------------------------------------------------------
                                                                           OPEN 99700
[INNISFAIL_NE240.00] TO 120 [INNISFA7    138.00] CKT T1
  1962.2    115 S RED DE    138.00    117 RED DE A    138.00 80  0.09151   192.4  372.0 OPEN 147 [GAETZ  4
240.00] TO 152 [RED DEE4    240.00] CKT 14
  1969.8     20 EDSON  7    138.00     39 CYNTHIA7    138.00 02  0.02453    36.7   85.0 OPEN 155 [BENALTO4
240.00] TO 161 [SARCEE 4    240.00] CKT 28
  1970.0*    20 EDSON  7    138.00     39 CYNTHIA7    138.00 02  0.02453    36.7   85.0 OPEN 155 [BENALTO4
240.00] TO 161 [SARCEE 4    240.00] CKT 06
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  1984.6    124 HARMATT7    138.00    883 EAGLE TP    138.00 19 -0.04189   -36.9  120.0
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                                                                          OPEN 152 [RED DEE4
240.00] TO 99700 [INNISFAIL_NE240.00] CKT 29
  1986.3    123 DIDSBURY    138.00    957 166L JNC    138.00 66 -0.03588    -9.7   81.0
-------------------------------------------------------------------
                                                                          OPEN 99700
[INNISFAIL_NE240.00] TO 120 [INNISFA7    138.00] CKT T1
  2001.1    118 RED DE B    138.00    152 RED DEE4    240.00 T2  0.04752   104.9  200.0 OPEN 147 [GAETZ  4
240.00] TO 152 [RED DEE4    240.00] CKT 14
  2001.8    152 RED DEE4    240.00    160 JANET  4    240.00 25  0.12398   232.8  481.0 OPEN 123 [DIDSBURY
138.00] TO 982 [MADDEN T    138.00] CKT 80
  2012.7  99700 INNISFAIL_NE240.00    160 JANET  4    240.00 29  0.11766   229.2  466.0
-------------------------------------------------------------------
                                                                           OPEN 152 [RED DEE4
240.00] TO 1422 [NEVIS  4    240.00] CKT 12
  2013.4  99700 INNISFAIL_NE240.00    160 JANET  4    240.00 29  0.12300   218.3  466.0 OPEN 120 [INNISFA7
138.00] TO 121 [OLDS   7    138.00] CKT 80
  2017.5*   152 RED DEE4    240.00    160 JANET  4    240.00 25  0.12393   231.0  481.0 OPEN 155 [BENALTO4
240.00] TO 135 [SUNDANC4    240.00] CKT 26
  2021.3    124 HARMATT7    138.00    957 166L JNC    138.00 66  0.03588     5.5   78.0 OPEN 121 [OLDS   7
138.00] TO 123 [DIDSBURY    138.00] CKT 80
  2027.0    123 DIDSBURY    138.00    957 166L JNC    138.00 66 -0.03581    -8.4   81.0 OPEN 155 [BENALTO4
240.00] TO 161 [SARCEE 4    240.00] CKT 06
  2028.5    123 DIDSBURY    138.00    957 166L JNC    138.00 66 -0.03581    -8.4   81.0 OPEN 155 [BENALTO4
240.00] TO 161 [SARCEE 4    240.00] CKT 28
  2029.0     76 IPPL ST7    138.00   1491 BAT. RV7    138.00 01  0.03328    44.5  112.0
-------------------------------------------------------------------
                                                                           OPEN 152 [RED DEE4
240.00] TO 1422 [NEVIS  4    240.00] CKT 12
  2029.5    124 HARMATT7    138.00    957 166L JNC    138.00 66  0.03444     8.1   78.0 OPEN 152 [RED DEE4
240.00] TO 160 [JANET  4    240.00] CKT 25
  2038.6*   124 HARMATT7    138.00    957 166L JNC    138.00 66  0.03159    13.6   78.0 OPEN 205 [AMOCO R7
138.00] TO 890 [AMOCO TP    138.00] CKT 19
  2063.0* 99700 INNISFAIL_NE240.00    160 JANET  4    240.00 29  0.11995   218.5  466.0 OPEN 123 [DIDSBURY
138.00] TO 982 [MADDEN T    138.00] CKT 80
  2069.0     25 ENTWIST8    69.000     28 MOON LA8    69.000 29  0.00613    16.3   29.0 OPEN 152 [RED DEE4
240.00] TO 155 [BENALTO4    240.00] CKT 00
  2071.9    370 SHELL C7    138.00    882 SCHRA TP    138.00 48 -0.04111   -88.8  174.0
-------------------------------------------------------------------
                                                                           OPEN 155 [BENALTO4
240.00] TO 9000 [DIDSBURY_NEW240.00] CKT 18
  2081.4    117 RED DE A    138.00    152 RED DEE4    240.00 T1  0.04662   103.0  200.0 OPEN 147 [GAETZ  4
240.00] TO 152 [RED DEE4    240.00] CKT 14
  2096.2    123 DIDSBURY    138.00    957 166L JNC    138.00 66 -0.03588    -5.8   81.0 OPEN 120 [INNISFA7
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138.00] TO 121 [OLDS   7    138.00] CKT 80
  2097.0     76 IPPL ST7    138.00   1491 BAT. RV7    138.00 01  0.03915    29.9  112.0 OPEN 147 [GAETZ  4
240.00] TO 81 [BIGSTON4    240.00] CKT 14
  2143.0    120 INNISFA7    138.00    121 OLDS   7    138.00 80  0.03115    55.2  122.0 OPEN 107 [SUNDRE 7
138.00] TO 370 [SHELL C7    138.00] CKT 19
  2162.3    123 DIDSBURY    138.00    957 166L JNC    138.00 66 -0.03519    -4.9   81.0 OPEN 152 [RED DEE4
240.00] TO 988 [CROSSF T    240.00] CKT 01
  2190.9    107 SUNDRE 7    138.00    883 EAGLE TP    138.00 19  0.03588    41.4  120.0
------------------------------------------------------------------
                                                                                      OPEN 99700
[INNISFAIL_NE240.00] TO 120 [INNISFA7    138.00] CKT T1
  2223.3    123 DIDSBURY    138.00    957 166L JNC    138.00 66 -0.03588    -1.2   81.0 OPEN 121 [OLDS   7
138.00] TO 123 [DIDSBURY    138.00] CKT 80
  2231.9    107 SUNDRE 7    138.00    883 EAGLE TP    138.00 19  0.03581    40.1  120.0 OPEN 155 [BENALTO4
240.00] TO 161 [SARCEE 4    240.00] CKT 06
  2233.4    107 SUNDRE 7    138.00    883 EAGLE TP    138.00 19  0.03581    40.0  120.0 OPEN 155 [BENALTO4
240.00] TO 161 [SARCEE 4    240.00] CKT 28
  2239.9    123 DIDSBURY    138.00    957 166L JNC    138.00 66 -0.03444    -3.9   81.0 OPEN 152 [RED DEE4
240.00] TO 160 [JANET  4    240.00] CKT 25
  2249.1   1383 VERMILO7    138.00     79 BUFFALO7    138.00 50  0.02814    50.7  114.0
------------------------------------------------------------------
                                                                                       OPEN 152 [RED DEE4
240.00] TO 1422 [NEVIS  4    240.00] CKT 12
  2268.1*   123 DIDSBURY    138.00    957 166L JNC    138.00 66 -0.03159    -9.4   81.0 OPEN 205 [AMOCO R7
138.00] TO 890 [AMOCO TP    138.00] CKT 19
  2281.2     76 IPPL ST7    138.00   1491 BAT. RV7    138.00 01  0.03687    27.9  112.0
------------------------------------------------------------------
                                                                                      OPEN 152 [RED DEE4
240.00] TO 99500 [PONOKA_NEW  240.00] CKT 10
  2300.8    107 SUNDRE 7    138.00    883 EAGLE TP    138.00 19  0.03588    37.4  120.0 OPEN 120 [INNISFA7
138.00] TO 121 [OLDS   7    138.00] CKT 80
  2302.4     99 BENALTO7    138.00    882 SCHRA TP    138.00 48  0.02740   103.9  167.0 OPEN 99 [BENALTO7
138.00] TO 100 [ROCKY M7    138.00] CKT 17
  2356.3   1383 VERMILO7    138.00     79 BUFFALO7    138.00 50  0.03143    39.9  114.0 OPEN 147 [GAETZ  4
240.00] TO 81 [BIGSTON4    240.00] CKT 14
  2370.8    107 SUNDRE 7    138.00    883 EAGLE TP    138.00 19  0.03519    36.6  120.0 OPEN 152 [RED DEE4
240.00] TO 988 [CROSSF T    240.00] CKT 01
  2376.1    104 STRACHA7    138.00    890 AMOCO TP    138.00 19  0.01897    74.9  120.0
------------------------------------------------------------------
                                                                                       OPEN 155 [BENALTO4
240.00] TO 9000 [DIDSBURY_NEW240.00] CKT 18
  2379.8    147 GAETZ  4    240.00    148 GAETZ  7    138.00 T2  0.05659    65.3  200.0 OPEN 147 [GAETZ  4
240.00] TO 152 [RED DEE4    240.00] CKT 14
  2416.3   1383 VERMILO7    138.00     79 BUFFALO7    138.00 50  0.03071    39.8  114.0
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240.00] TO 135 [SUNDANC4    240.00] CKT 22
  2620.6     99 BENALTO7    138.00    882 SCHRA TP    138.00 48  0.02740    95.2  167.0 OPEN 370 [SHELL C7
138.00] TO 881 [RAVEN TP    138.00] CKT 19
  2636.2     76 IPPL ST7    138.00   1491 BAT. RV7    138.00 01  0.03344    23.8  112.0 OPEN 155 [BENALTO4
240.00] TO 420 [KEEPHIL4    240.00] CKT 90
  2637.8    120 INNISFA7    138.00    121 OLDS   7    138.00 80  0.03115    39.8  122.0 OPEN 124 [HARMATT7
138.00] TO 957 [166L JNC    138.00] CKT 66
  2640.3     76 IPPL ST7    138.00   1491 BAT. RV7    138.00 01  0.03341    23.8  112.0 OPEN 155 [BENALTO4
240.00] TO 420 [KEEPHIL4    240.00] CKT 03
  2645.6    120 INNISFA7    138.00    121 OLDS   7    138.00 80  0.02812    47.6  122.0 OPEN 152 [RED DEE4
240.00] TO 988 [CROSSF T    240.00] CKT 01
  2665.7    120 INNISFA7    138.00    121 OLDS   7    138.00 80  0.02658    51.1  122.0 OPEN 99 [BENALTO7
138.00] TO 882 [SCHRA TP    138.00] CKT 48
  2668.2     76 IPPL ST7    138.00   1491 BAT. RV7    138.00 01  0.03367    22.2  112.0
-----------------------------------------------------------------                    OPEN 155 [BENALTO4
240.00] TO 9000 [DIDSBURY_NEW240.00] CKT 18
  2671.8    120 INNISFA7    138.00    121 OLDS   7    138.00 80  0.03115    38.8  122.0 OPEN 123 [DIDSBURY
138.00] TO 957 [166L JNC    138.00] CKT 66
  2672.5    124 HARMATT7    138.00    883 EAGLE TP    138.00 19 -0.03588   -24.1  120.0 OPEN 120 [INNISFA7
138.00] TO 121 [OLDS   7    138.00] CKT 80
  2692.0*    76 IPPL ST7    138.00   1491 BAT. RV7    138.00 01  0.03378    21.1  112.0
-----------------------------------------------------------------                    OPEN 9000
[DIDSBURY_NEW240.00] TO 187 [BEDDING1    240.00] CKT 18
  2712.3   1383 VERMILO7    138.00     79 BUFFALO7    138.00 50  0.02836    37.1  114.0 OPEN 155 [BENALTO4
240.00] TO 420 [KEEPHIL4    240.00] CKT 90
  2715.8   1383 VERMILO7    138.00     79 BUFFALO7    138.00 50  0.02834    37.0  114.0 OPEN 155 [BENALTO4
240.00] TO 420 [KEEPHIL4    240.00] CKT 03
  2718.6   1383 VERMILO7    138.00     79 BUFFALO7    138.00 50  0.02851    36.5  114.0 OPEN 147 [GAETZ  4
240.00] TO 152 [RED DEE4    240.00] CKT 14
  2725.7    120 INNISFA7    138.00  99700 INNISFAIL_NE240.00 T1 -0.04016   -90.5  200.0
-----------------------------------------------------------------                   OPEN 99700
[INNISFAIL_NE240.00] TO 160 [JANET  4    240.00] CKT 29
  2744.6   1383 VERMILO7    138.00     79 BUFFALO7    138.00 50  0.02849    35.8  114.0
-----------------------------------------------------------------                    OPEN 155 [BENALTO4
240.00] TO 9000 [DIDSBURY_NEW240.00] CKT 18
  2749.9    124 HARMATT7    138.00    883 EAGLE TP    138.00 19 -0.03519   -23.2  120.0 OPEN 152 [RED DEE4
240.00] TO 988 [CROSSF T    240.00] CKT 01
  2766.0*  1383 VERMILO7    138.00     79 BUFFALO7    138.00 50  0.02855    35.0  114.0
-----------------------------------------------------------------                    OPEN 9000
[DIDSBURY_NEW240.00] TO 187 [BEDDING1    240.00] CKT 18
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  2777.0*   120 INNISFA7    138.00    121 OLDS   7    138.00 80  0.02658    48.2  122.0 OPEN 370 [SHELL C7
138.00] TO 882 [SCHRA TP    138.00] CKT 48
  2799.6    124 HARMATT7    138.00    883 EAGLE TP    138.00 19 -0.03588   -19.5  120.0 OPEN 121 [OLDS   7
138.00] TO 123 [DIDSBURY    138.00] CKT 80
  2840.4    124 HARMATT7    138.00    883 EAGLE TP    138.00 19 -0.03444   -22.2  120.0 OPEN 152 [RED DEE4
240.00] TO 160 [JANET  4    240.00] CKT 25
  2849.0    152 RED DEE4    240.00    155 BENALTO4    240.00 00 -0.08350  -346.1  584.0 OPEN 355 [NOVA C27
138.00] TO 383 [JOFFRE 7    138.00] CKT 2
  2864.9    370 SHELL C7    138.00    882 SCHRA TP    138.00 48 -0.02740   -95.5  174.0 OPEN 104 [STRACHA7
138.00] TO 890 [AMOCO TP    138.00] CKT 19
  2876.2*   124 HARMATT7    138.00    883 EAGLE TP    138.00 19 -0.03418   -21.7  120.0 OPEN 147 [GAETZ  4
240.00] TO 152 [RED DEE4    240.00] CKT 14
  2936.1    121 OLDS   7    138.00    123 DIDSBURY    138.00 80  0.03115    30.5  122.0 OPEN 107 [SUNDRE 7
138.00] TO 370 [SHELL C7    138.00] CKT 19
  2949.2     99 BENALTO7    138.00    100 ROCKY M7    138.00 17  0.01840    65.7  120.0 OPEN 370 [SHELL C7
138.00] TO 882 [SCHRA TP    138.00] CKT 48
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     PTI INTERACTIVE POWER SYSTEM SIMULATOR--PSS/E   TUE, MAR 08 2011   9:55
 D-SOK-1 (S3_SOK_PK) 2012 SUMMER PEAK CASE 716L CLOSED                PAGE 3
 NOVA ON 485MW WITHOUT TRANSMISSION PLAN
        *** TLTG EXPORT LIMIT OUTPUT FOR SUBSYSTEM N-OF-SOK     ***

 * MONITORED ELEMENTS OCCURRING     10 OR MORE TIMES

   NO. <----------------- MONITORED ELEMENT ----------------->
 TIMES <------- F R O M -------> <--------- T O --------->  CKT
    65    147 GAETZ  4    240.00    152 RED DEE4    240.00   14
    44   9000 DIDSBURY_NEW240.00    187 BEDDING1    240.00   18
    42    152 RED DEE4    240.00    988 CROSSF T    240.00   01
    42    152 RED DEE4    240.00  99700 INNISFAIL_NE240.00   29
    42    155 BENALTO4    240.00   9000 DIDSBURY_NEW240.00   18
    41    128 ELLERSLI    240.00     81 BIGSTON4    240.00   14
    40    152 RED DEE4    240.00    160 JANET  4    240.00   25
    40    155 BENALTO4    240.00    161 SARCEE 4    240.00   06
    40    155 BENALTO4    240.00    161 SARCEE 4    240.00   28
    38     81 BIGSTON4    240.00    147 GAETZ  4    240.00   14
    37    107 SUNDRE 7    138.00    370 SHELL C7    138.00   19
    36    123 DIDSBURY    138.00    982 MADDEN T    138.00   80
    34  99700 INNISFAIL_NE240.00    160 JANET  4    240.00   29
    32    124 HARMATT7    138.00    957 166L JNC    138.00   66
    31    128 ELLERSLI    240.00  99500 PONOKA_NEW  240.00   10
    31    152 RED DEE4    240.00  99500 PONOKA_NEW  240.00   10
    30    123 DIDSBURY    138.00    957 166L JNC    138.00   66
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29	68	N HOLDE7	138.00	65	BARDO 7	138.00	74
27	155	BENALTO4	240.00	135	SUNDANC4	240.00	22
27	155	BENALTO4	240.00	135	SUNDANC4	240.00	26
27	107	SUNDRE 7	138.00	883	EAGLE TP	138.00	19
27	135	SUNDANC4	240.00	155	BENALTO4	240.00	22
27	135	SUNDANC4	240.00	155	BENALTO4	240.00	26
24	155	BENALTO4	240.00	420	KEEPHIL4	240.00	03
24	155	BENALTO4	240.00	420	KEEPHIL4	240.00	90
24	420	KEEPHIL4	240.00	155	BENALTO4	240.00	03
24	420	KEEPHIL4	240.00	155	BENALTO4	240.00	90
23	101	COOKING7	138.00	65	BARDO 7	138.00	74
18	76	IPPL ST7	138.00	1491	BAT. RV7	138.00	01
15	1383	VERMILO7	138.00	79	BUFFALO7	138.00	50
13	124	HARMATT7	138.00	883	EAGLE TP	138.00	19
12	20	EDSON 7	138.00	39	CYNTHIA7	138.00	02
11	120	INNISFA7	138.00	121	OLDS 7	138.00	80

D5- System Short Circuit Analysis

Alternative 1

2012 Red Deer Region Fault Current Levels – Alternative 1

Substation Name (Fault Location)	Base Voltage (kV)	Pre-Fault Bus Voltage(kV)	Pos. Seq. Zth (R1+jX1)	3 Ø Ground (A)	Zero Seq. Zth (R0+jX0)	1 Ø Ground (A)
Red Deer 63S	240(Bus No.152)	246.9	0.00300+j0.01211	19845	0.00502+j0.02547	14624
	138(Bus No.117)	142.1	0.00433+j0.01979	21271	0.00496+j0.03203	17764
	138(Bus No.118)	142.1	0.00433+j0.01979	21271	0.00496+j0.03203	17764
Gaetz 87S	240(Bus No.147)	245.7	0.00364+j0.01660	14490	0.00590+j0.03231	11078
	138(Bus No.148)	141.4	0.00421+j0.01891	22129	0.00517+j0.02588	19776
Benalto 17S	240(Bus No.155)	250.4	0.00299+j0.01229	19852	0.00897+j0.03428	12440
	138(Bus No.99)	142.7	0.00517+j0.02870	14835	0.00985+j0.06563	10425
Ponoka 331S	138(Bus No.95)	139.2	0.01463+j0.06545	6293	0.03886+j0.20561	3689
Nelson Lake 429S	138(Bus No.192)	138.7	0.03596+j0.11064	3614	0.08201+j0.36090	2095
W. Lacombe 958S	138(Bus No.116)	139.8	0.00827+j0.03914	10595	0.01953+j0.10512	6807
N.E. Lacombe 212S	138(Bus No.114)	139.7	0.00847+j0.04006	10340	0.02020+j0.10641	6682
Blackfalds 198S	138(Bus No.113)	140.2	0.00749+j0.03519	11808	0.01575+j0.08731	7940
N. Red Deer 217S	138(Bus No.119)	141.1	0.00474+j0.02015	20666	0.00464+j0.02889	18203
S. Red Deer 194S	138(Bus No.115)	141.4	0.00470+j0.02067	20230	0.00466+j0.03206	17239
Ellis 332S	138(Bus No.388)	139.7	0.00647+j0.02582	15916	0.01111+j0.05232	11922
Joffre 535S	138(Bus No.383)	141.4	0.00387+j0.01893	22195	0.00276+j0.01547	23717
Nova C17	138(Bus No.354)	142.5	0.00686+j0.02124	19358	0.00441+j0.01701	20899
Nova C27	138(Bus No.355)	143.3	0.00543+j0.02058	20413	0.00251+j0.01566	22372
Piper Creek 247S	138(Bus No.664)	141.5	0.00618+j0.03045	13808	0.00840+j0.05413	11021
UC Prentiss 276S	138(Bus No.384)	139.7	0.00644+j0.02562	16031	0.01090+j0.05093	12124
Haynes 482S	138(Bus No.387)	141.0	0.01065+j0.03517	11629	0.01805+j0.07448	8548
Brookfield 536S	138(Bus No.398)	141.4	0.00682+j0.02535	16327	0.00913+j0.03786	14077
Sylva Lake 580S	138(Bus No.780)	142.0	0.00700+j0.03598	11746	0.01748+j0.09851	7457

Substation Name (Fault Location)	Base Voltage (kV)	Pre-Fault Bus Voltage(kV)	Pos. Seq. Zth (R1+jX1)	3 Ø Ground (A)	Zero Seq. Zth (R0+jX0)	1 Ø Ground (A)
Eckvill 534S	138(Bus No.97)	141.2	0.02348+j0.06654	6066	0.04594+j0.20348	3679
Rimbey 297S	138(Bus No.98)	139.2	0.05610+j0.13065	2968	0.10926+j0.44320	1715
Olds 55S	138(Bus No.121)	138.3	0.01700+j0.05746	6997	0.03700+j0.14639	4647
Didsbury 152S	240(Bus No.9000)	246.1	0.00665+j0.02883	8337	0.01713+j0.06866	5699
	138(Bus No.123)	138.3	0.01110+j0.04235	9576	0.01583+j0.07641	7602
Innisfail 214S	138(Bus No.120)	139.4	0.01235+j0.05389	7643	0.03077+j0.15544	4716
Harmatten 256S	138(Bus No.124)	138.4	0.02480+j0.06528	6006	0.03477+j0.14128	4423
Madden 373S	138(Bus No.122)	136.9	0.03972+j0.09170	4154	0.07558+j0.25815	2661
Keephills 320P	240(Bus No.420)	256.3	0.00177+j0.01411	18065	0.00063+j0.01341	18892
Sundance 310P	240(Bus No.135)	256.8	0.00153+j0.00914	27785	0.00040+j0.00663	31311
Ellerslie 89S	500 (Bus No.258)	512.6	0.00140+j0.01040	11282	0.00093+j0.01069	11454
	240(Bus No.128)	251.8	0.00222+j0.00870	28110	0.00136+j0.00969	27744
Bigstone 86S	240(Bus No.81)	244.8	0.00495+j0.02314	10367	0.01126+j0.05580	7078
	138(Bus No.374)	143.1	0.01196+j0.04599	9127	0.01553+j0.09565	6794
Sarcee 42S	240(Bus No.161)	244.2	0.00510+j0.01473	15707	0.00160+j0.01452	16146
Nevis 766S	240(Bus No.1422)	253.9	0.00667+j0.02972	8356	0.01280+j0.06255	6120
	138(Bus No.1423)	148.0	0.01373+j0.07400	5961	0.00972+j0.07522	5947
Beddington 162S	240(Bus No.187)	241.5	0.00472+j0.01839	12749	0.00167+j0.01732	13159
Janet 74S	240(Bus No.160)	247.5	0.00421+j0.01202	19469	0.00281+j0.01495	18359

Alternative 2

2012 Red Deer Region Fault Current Levels – Alternative 2

Substation Name (Fault Location)	Base Voltage (kV)	Pre-Fault Bus Voltage(kV)	Pos. Seq. Zth (R1+jX1)	3 Ø Ground (A)	Zero Seq. Zth (R0+jX0)	1 Ø Ground (A)
Red Deer 63S	240(Bus No.152)	246.6	0.00302+j0.01206	19879	0.00503+j0.02534	14664
	138(Bus No.117)	142.4	0.00441+j0.02169	19510	0.00494+j0.03330	16650
	138(Bus No.118)	142.4	0.00441+j0.02169	19510	0.00494+j0.03330	16650
Gaetz 87S	240(Bus No.147)	245.6	0.00366+j0.01669	14405	0.00592+j0.03233	11037
	138(Bus No.148)	141.5	0.00423+j0.02016	20825	0.00519+j0.02614	18995
Benalto 17S	240(Bus No.155)	250.3	0.00300+j0.01231	19805	0.00905+j0.03450	12377
	138(Bus No.99)	141.4	0.00511+j0.02858	14762	0.00955+j0.06476	10424
Ponoka 331S	240(Bus No.99500)	248.6	0.00605+j0.02800	8699	0.02048+j0.08649	5124
	138(Bus No.95)	135.3	0.00753+j0.05494	7397	0.01987+j0.10862	5568
Nelson Lake 429S	138(Bus No.192)	134.8	0.02887+j0.10021	3918	0	0
W. Lacombe 958S	138(Bus No.116)	140.0	0.01604+j0.04888	8251	0.03296+j0.12258	5545
N.E. Lacombe 212S	138(Bus No.114)	139.9	0.01209+j0.04602	8916	0.02651+j0.11512	5970
Blackfalds 198S	138(Bus No.113)	140.1	0.01342+j0.04021	10022	0.02558+j0.09182	7082
N. Red Deer 217S	138(Bus No.119)	141.3	0.00493+j0.02185	19132	0.00475+j0.02946	17254
S. Red Deer 194S	138(Bus No.115)	141.7	0.00485+j0.02240	18736	0.00468+j0.03266	16374
Ellis 332S	138(Bus No.388)	139.9	0.00698+j0.02764	14877	0.01176+j0.05345	11398
Joffre 535S	138(Bus No.383)	141.5	0.00391+j0.02006	20990	0.00276+j0.01559	22741
Nova C17	138(Bus No.354)	142.6	0.00682+j0.02232	18525	0.00439+j0.01711	20215
Nova C27	138(Bus No.355)	143.4	0.00533+j0.02161	19537	0.00249+j0.01575	21629
Piper Creek 247S	138(Bus No.664)	141.7	0.00625+j0.03253	12968	0.00758+j0.05460	10630
UC Prentiss 276S	138(Bus No.384)	139.9	0.00688+j0.02736	15033	0.01135+j0.05182	11634
Haynes 482S	138(Bus No.387)	141.1	0.01077+j0.03644	11256	0.01811+j0.07471	8401
Brookfield 536S	138(Bus No.398)	141.5	0.00687+j0.02649	15675	0.00913+j0.03798	13734
Sylva Lake 580S	138(Bus No.780)	141.5	0.00699+j0.03657	11523	0.01736+j0.09862	7377

Substation Name (Fault Location)	Base Voltage (kV)	Pre-Fault Bus Voltage(kV)	Pos. Seq. Zth (R1+jX1)	3 Ø Ground (A)	Zero Seq. Zth (R0+jX0)	1 Ø Ground (A)
Eckvill 534S	138(Bus No.97)	139.8	0.02343+j0.06640	6021	0.04564+j0.20261	3657
Rimbey 297S	138(Bus No.98)	137.9	0.05607+j0.13043	2944	0.10895+j0.44233	1701
Olds 55S	138(Bus No.121)	135.9	0.01933+j0.05792	6748	0.03733+j0.13343	4745
Didsbury 152S	240(Bus No.9000)	245.0	0.00679+j0.02894	8261	0.01709+j0.06789	5695
	138(Bus No.123)	136.9	0.01184+j0.04266	9374	0.01619+j0.07441	7566
Innisfail 214S	240(Bus No. 99700)	246.1	0.00594+j0.02556	9404	0.01721+j0.06836	6025
	138(Bus No.120)	136.6	0.01117+j0.05532	7338	0.01833+j0.09942	5812
Harmatten 256S	138(Bus No.124)	137.0	0.02530+j0.06529	5930	0.03495+j0.14030	4387
Madden 373S	138(Bus No.122)	135.8	0.04020+j0.09195	4104	0.07578+j0.25711	2641
Keephills 320P	240(Bus No.420)	256.3	0.00177+j0.01409	18090	0.00063+j0.01341	18910
Sundance 310P	240(Bus No.135)	256.8	0.00153+j0.00913	27809	0.00040+j0.00663	31330
Ellerslie 89S	500 (Bus No.258)	512.0	0.00141+j0.01038	11283	0.00093+j0.01072	11441
	240(Bus No.128)	250.9	0.00223+j0.00868	28068	0.00137+j0.00974	27631
Bigstone 86S	240(Bus No.81)	244.5	0.00521+j0.02350	10182	0.01194+j0.05789	6873
	138(Bus No.374)	143.4	0.01433+j0.05283	7945	0.01683+j0.10461	6072
Sarcee 42S	240(Bus No.161)	243.7	0.00512+j0.01473	15666	0.00160+j0.01452	16108
Nevis 766S	240(Bus No.1422)	253.8	0.00668+j0.02969	8358	0.01280+j0.06253	6120
	138(Bus No.1423)	147.9	0.01373+j0.07397	5961	0.00972+j0.07521	5947
Beddington 162S	240(Bus No.187)	240.9	0.00477+j0.01843	12682	0.00167+j0.01733	13100
Janet 74S	240(Bus No.160)	247.0	0.00424+j0.01201	19432	0.00281+j0.01492	18338