Appendix C

	A	B	C	D	E	F	G	H	I	J	K
1			**Path 15 Analysis of Southern California Firm Outages**								
2	**Date**	**Hour**	**Firm Outage MWs in the North**	**Available Megawatts Not Generated in the North**	**Firm Outage MWs in the South**	**Available Megawatts Not Generated in the South**	**Available MWs Not Generated in the North After Subtracting Firm Outage MWs in the North (See Note 1)**	**Path 15 Unused MW Capacity (See Note 2)**	**Additional Available Megawatts from the North which can be shipped over Path 15 (See Note 3)**	**Sum of Available MWs Not Generated from the North and South (See Note 4)**	**Percent (%) of Southern Firm Outage which is Avoidable (Column AD / Column Y)**
3	13-Nov	19	0	9	0	1746	9	1000	9	1755	No Firm Outage
4	14-Nov	18	0	39	0	1300	39	1000	39	1339	No Firm Outage
5	14-Nov	19	0	20	0	1451	20	1000	20	1471	No Firm Outage
6	15-Nov	17	0	66	0	876	66	1000	66	943	No Firm Outage
7	15-Nov	18	0	8	0	693	8	1000	8	701	No Firm Outage
8	15-Nov	19	0	7	0	654	7	1000	7	661	No Firm Outage
9	15-Nov	20	0	17	0	708	17	1000	17	725	No Firm Outage
10	4-Dec	18	0	26	0	1043	26	1000	26	1069	No Firm Outage
11	4-Dec	19	0	22	0	979	22	1000	22	1002	No Firm Outage
12	4-Dec	20	0	75	0	903	75	1000	75	977	No Firm Outage
13	5-Dec	17	0	108	0	705	108	1000	108	813	No Firm Outage
14	5-Dec	18	0	128	0	537	128	1000	128	665	No Firm Outage
15	5-Dec	19	0	31	0	760	31	1000	31	791	No Firm Outage
16	6-Dec	18	0	60	0	343	60	1000	60	403	No Firm Outage
17	6-Dec	19	0	12	0	410	12	1000	12	422	No Firm Outage
18	6-Dec	20	0	12	0	483	12	1000	12	495	No Firm Outage
19	7-Dec	18	0	9	0	170	9	1000	9	179	No Firm Outage
20	7-Dec	19	0	11	0	184	11	1000	11	195	No Firm Outage
21	7-Dec	20	0	8	0	100	8	1000	8	108	No Firm Outage
22	10-Dec	18	0	52	0	2432	52	1000	52	2484	No Firm Outage
23	10-Dec	19	0	15	0	1743	15	1000	15	1757	No Firm Outage
24	10-Dec	20	0	16	0	1881	16	1000	16	1897	No Firm Outage
25	10-Dec	21	0	32	0	1971	32	1000	32	2003	No Firm Outage
26	10-Dec	22	0	63	0	2240	63	1000	63	2304	No Firm Outage
27	11-Dec	18	0	10	0	1237	10	1000	10	1247	No Firm Outage
28	11-Dec	19	0	6	0	1047	6	1000	6	1053	No Firm Outage
29	11-Dec	20	0	2	0	734	2	1000	2	737	No Firm Outage
30	11-Dec	21	0	5	0	999	5	1000	5	1004	No Firm Outage
31	11-Dec	22	0	3	0	1285	3	1000	3	1289	No Firm Outage
32	11-Dec	23	0	9	0	2945	9	1000	9	2955	No Firm Outage
33	9-Jan	18	0	40	0	881	40	1000	40	920	No Firm Outage
34	9-Jan	19	0	41	0	1300	41	1000	41	1342	No Firm Outage
35	9-Jan	20	0	44	0	1712	44	1000	44	1756	No Firm Outage
36	9-Jan	21	0	41	0	1839	41	1000	41	1880	No Firm Outage
37	10-Jan	18	0	37	0	941	37	1000	37	977	No Firm Outage

Appendix C

	A	B	M	N	O	P	Q	R	S	T	U	V	W	X
1			**Path 15 Analysis of Southern California Non-Firm Outages**											
2	**Date**	**Hour**	**Firm Outage MWs in the North**	**Non-Firm Outage MWs in the North**	**Available Megawatts Not Generated in the North**	**Firm Outage MWs in the South**	**Non-Firm Outage MWs in the South**	**Available Megawatts Not Generated in the South**	**MWs needed from Northern California to Alleviate Southern California Firm Outages (See Note 5)**	**Northern California Available Megawatts Not Generated after subtracting out Northern California Firm Outage MWs (See Note 6)**	**Path 15 Unused Capacity (See Note 7)**	**Available MWs Which Would Have Been Sent South to Alleviate FIRM Outages (See Note 8)**	**Northern California Available MWs Not Generated which can be used to Alleviate Northern California NON-Firm Outages (See Note 9)**	**Power Available to send South to Alleviate Southern California NON-Firm Outages (See Note 10)**
3	13-Nov	19	0	500	9	0	1357	1746	0	9	1000	0	9	0
4	14-Nov	18	0	372	39	0	1040	1300	0	39	1000	0	39	0
5	14-Nov	19	0	372	20	0	1040	1451	0	20	1000	0	20	0
6	15-Nov	17	0	400	66	0	540	876	0	66	1000	0	66	0
7	15-Nov	18	0	400	8	0	740	693	0	8	1000	0	8	0
8	15-Nov	19	0	0	7	0	40	654	0	7	1000	0	7	7
9	15-Nov	20	0	0	17	0	40	708	0	17	1000	0	17	17
10	4-Dec	18	0	390	26	0	1481	1043	0	26	1000	0	26	0
11	4-Dec	19	0	390	22	0	1481	979	0	22	1000	0	22	0
12	4-Dec	20	0	0	75	0	1078	903	0	75	1000	0	75	75
13	5-Dec	17	0	390	108	0	841	705	0	108	1000	0	108	0
14	5-Dec	18	0	390	128	0	841	537	0	128	1000	0	128	0
15	5-Dec	19	0	390	31	0	841	760	0	31	1000	0	31	0
16	6-Dec	18	0	453	60	0	926	343	0	60	1000	0	60	0
17	6-Dec	19	0	453	12	0	926	410	0	12	1000	0	12	0
18	6-Dec	20	0	453	12	0	926	483	0	12	1000	0	12	0
19	7-Dec	18	0	453	9	0	926	170	0	9	1000	0	9	0
20	7-Dec	19	0	453	11	0	926	184	0	11	1000	0	11	0
21	7-Dec	20	0	453	8	0	926	100	0	8	1000	0	8	0
22	10-Dec	18	0	200	52	0	0	2432	0	52	1000	0	52	0
23	10-Dec	19	0	200	15	0	0	1743	0	15	1000	0	15	0
24	10-Dec	20	0	200	16	0	0	1881	0	16	1000	0	16	0
25	10-Dec	21	0	200	32	0	0	1971	0	32	1000	0	32	0
26	10-Dec	22	0	200	63	0	0	2240	0	63	1000	0	63	0
27	11-Dec	18	0	367	10	0	0	1237	0	10	1000	0	10	0
28	11-Dec	19	0	367	6	0	0	1047	0	6	1000	0	6	0
29	11-Dec	20	0	367	2	0	0	734	0	2	1000	0	2	0
30	11-Dec	21	0	367	5	0	0	999	0	5	1000	0	5	0
31	11-Dec	22	0	367	3	0	0	1285	0	3	1000	0	3	0
32	11-Dec	23	0	367	9	0	0	2945	0	9	1000	0	9	0
33	9-Jan	18	0	293	40	0	838	881	0	40	1000	0	40	0
34	9-Jan	19	0	293	41	0	838	1300	0	41	1000	0	41	0
35	9-Jan	20	0	293	44	0	0	1712	0	44	1000	0	44	0
36	9-Jan	21	0	293	41	0	0	1839	0	41	1000	0	41	0
37	10-Jan	18	0	264	37	0	0	941	0	37	1000	0	37	0

Appendix C

	A	B	Y	Z	AA	AB	AC	AE	AF	AG	AH
1			**Path 15 Analysis of Southern California Non-Firm Outages**								
2	**Date**	**Hour**	**New Path 15 Unused Capacity after subtracting out the MWs sent South to Alleviate Southern Firm Outages See Note 11)**	**Available MWs Which Could Have Been Sent South to Alleviate Non-Firm Outages (See Note 12)**	**Available MWs Which Would Have Been Sent North to Alleviate FIRM Outages (See Note 13)**	**Sum of Available MWs Not Generated which could be used to eliminate the Non-Firm Outage in the South (See Note 14)**	**Percent (%) of Southern Non-Firm Outage which is Avoidable Column AV / Column AK)**	**Non-Firm Outage?**	**100% Avoidable?**	**90%-100% Avoidable?**	**50%-89% Avoidable**
3	13-Nov	19	1000	0	0	1746	129%	TRUE	TRUE	FALSE	FALSE
4	14-Nov	18	1000	0	0	1300	125%	TRUE	TRUE	FALSE	FALSE
5	14-Nov	19	1000	0	0	1451	139%	TRUE	TRUE	FALSE	FALSE
6	15-Nov	17	1000	0	0	876	162%	TRUE	TRUE	FALSE	FALSE
7	15-Nov	18	1000	0	0	693	94%	TRUE	FALSE	TRUE	FALSE
8	15-Nov	19	1000	7	0	661	1653%	TRUE	TRUE	FALSE	FALSE
9	15-Nov	20	1000	17	0	725	1812%	TRUE	TRUE	FALSE	FALSE
10	4-Dec	18	1000	0	0	1043	70%	TRUE	FALSE	FALSE	TRUE
11	4-Dec	19	1000	0	0	979	66%	TRUE	FALSE	FALSE	TRUE
12	4-Dec	20	1000	75	0	977	91%	TRUE	FALSE	TRUE	FALSE
13	5-Dec	17	1000	0	0	705	84%	TRUE	FALSE	FALSE	TRUE
14	5-Dec	18	1000	0	0	537	64%	TRUE	FALSE	FALSE	TRUE
15	5-Dec	19	1000	0	0	760	90%	TRUE	FALSE	TRUE	FALSE
16	6-Dec	18	1000	0	0	343	37%	TRUE	FALSE	FALSE	FALSE
17	6-Dec	19	1000	0	0	410	44%	TRUE	FALSE	FALSE	FALSE
18	6-Dec	20	1000	0	0	483	52%	TRUE	FALSE	FALSE	TRUE
19	7-Dec	18	1000	0	0	170	18%	TRUE	FALSE	FALSE	FALSE
20	7-Dec	19	1000	0	0	184	20%	TRUE	FALSE	FALSE	FALSE
21	7-Dec	20	1000	0	0	100	11%	TRUE	FALSE	FALSE	FALSE
22	10-Dec	18	1000	0	0	2432	No Non-Firm Outag	No Non-Firm Outa	No Non-Firm Outag	No Non-Firm Outage	No Non-Firm Outage
23	10-Dec	19	1000	0	0	1743	No Non-Firm Outag	No Non-Firm Outa	No Non-Firm Outag	No Non-Firm Outage	No Non-Firm Outage
24	10-Dec	20	1000	0	0	1881	No Non-Firm Outag	No Non-Firm Outa	No Non-Firm Outag	No Non-Firm Outage	No Non-Firm Outage
25	10-Dec	21	1000	0	0	1971	No Non-Firm Outag	No Non-Firm Outa	No Non-Firm Outag	No Non-Firm Outage	No Non-Firm Outage
26	10-Dec	22	1000	0	0	2240	No Non-Firm Outag	No Non-Firm Outa	No Non-Firm Outag	No Non-Firm Outage	No Non-Firm Outage
27	11-Dec	18	1000	0	0	1237	No Non-Firm Outag	No Non-Firm Outa	No Non-Firm Outag	No Non-Firm Outage	No Non-Firm Outage
28	11-Dec	19	1000	0	0	1047	No Non-Firm Outag	No Non-Firm Outa	No Non-Firm Outag	No Non-Firm Outage	No Non-Firm Outage
29	11-Dec	20	1000	0	0	734	No Non-Firm Outag	No Non-Firm Outa	No Non-Firm Outag	No Non-Firm Outage	No Non-Firm Outage
30	11-Dec	21	1000	0	0	999	No Non-Firm Outag	No Non-Firm Outa	No Non-Firm Outag	No Non-Firm Outage	No Non-Firm Outage
31	11-Dec	22	1000	0	0	1285	No Non-Firm Outag	No Non-Firm Outa	No Non-Firm Outag	No Non-Firm Outage	No Non-Firm Outage
32	11-Dec	23	1000	0	0	2945	No Non-Firm Outag	No Non-Firm Outa	No Non-Firm Outag	No Non-Firm Outage	No Non-Firm Outage
33	9-Jan	18	1000	0	0	881	105%	TRUE	TRUE	FALSE	FALSE
34	9-Jan	19	1000	0	0	1300	155%	TRUE	TRUE	FALSE	FALSE
35	9-Jan	20	1000	0	0	1712	No Non-Firm Outag	No Non-Firm Outa	No Non-Firm Outag	No Non-Firm Outage	No Non-Firm Outage
36	9-Jan	21	1000	0	0	1839	No Non-Firm Outag	No Non-Firm Outa	No Non-Firm Outag	No Non-Firm Outage	No Non-Firm Outage
37	10-Jan	18	1000	0	0	941	No Non-Firm Outag	No Non-Firm Outa	No Non-Firm Outag	No Non-Firm Outage	No Non-Firm Outage

Appendix C

	A	B	C	D	E	F	G	H	I	J	K
1			**Path 15 Analysis of Southern California Firm Outages**								
2	**Date**	**Hour**	**Firm Outage MWs in the North**	**Available Megawatts Not Generated in the North**	**Firm Outage MWs in the South**	**Available Megawatts Not Generated in the South**	**Available MWs Not Generated in the North After Subtracting Firm Outage MWs in the North (See Note 1)**	**Path 15 Unused MW Capacity (See Note 2)**	**Additional Available Megawatts from the North which can be shipped over Path 15 (See Note 3)**	**Sum of Available MWs Not Generated from the North and South (See Note 4)**	**Percent (%) of Southern Firm Outage which is Avoidable (Column AD / Column Y)**
38	10-Jan	19	0	44	0	940	44	1000	44	984	No Firm Outage
39	10-Jan	20	0	52	0	923	52	1000	52	975	No Firm Outage
40	11-Jan	7	0	51	0	1034	51	1000	51	1085	No Firm Outage
41	11-Jan	8	0	54	0	646	54	1000	54	701	No Firm Outage
42	11-Jan	9	0	39	0	584	39	1000	39	623	No Firm Outage
43	11-Jan	10	0	52	0	675	52	1000	52	727	No Firm Outage
44	11-Jan	11	0	50	0	695	50	1000	50	745	No Firm Outage
45	11-Jan	12	0	30	0	571	30	1000	30	601	No Firm Outage
46	11-Jan	13	0	29	0	632	29	1000	29	661	No Firm Outage
47	11-Jan	17	0	32	0	618	32	1000	32	650	No Firm Outage
48	11-Jan	18	0	34	0	476	34	1000	34	510	No Firm Outage
49	11-Jan	19	0	33	0	468	33	1000	33	502	No Firm Outage
50	11-Jan	20	0	36	0	626	36	1000	36	662	No Firm Outage
51	16-Jan	7	0	42	0	746	42	1000	42	788	No Firm Outage
52	16-Jan	8	0	37	0	705	37	1000	37	742	No Firm Outage
53	16-Jan	9	0	95	0	838	95	1000	95	933	No Firm Outage
54	16-Jan	10	0	139	0	663	139	1000	139	802	No Firm Outage
55	16-Jan	11	0	139	0	528	139	1000	139	668	No Firm Outage
56	16-Jan	12	0	149	0	454	149	1000	149	603	No Firm Outage
57	16-Jan	13	0	148	0	512	148	1000	148	660	No Firm Outage
58	16-Jan	14	0	148	0	435	148	1000	148	583	No Firm Outage
59	16-Jan	17	0	145	0	530	145	1000	145	674	No Firm Outage
60	16-Jan	18	0	139	0	510	139	1000	139	649	No Firm Outage
61	16-Jan	19	0	144	0	517	144	1000	144	661	No Firm Outage
62	16-Jan	20	0	82	0	581	82	1000	82	663	No Firm Outage
63	16-Jan	21	0	82	0	642	82	1000	82	724	No Firm Outage
64	16-Jan	22	0	90	0	837	90	1000	90	927	No Firm Outage
65	16-Jan	23	0	87	0	1770	87	1000	87	1857	No Firm Outage
66	16-Jan	24	0	87	0	2079	87	1000	87	2166	No Firm Outage
67	17-Jan	6	0	95	0	1537	95	1000	95	1632	No Firm Outage
68	17-Jan	7	0	74	0	1342	74	1000	74	1416	No Firm Outage
69	17-Jan	8	0	18	0	1029	18	1000	18	1047	No Firm Outage
70	17-Jan	9	0	19	0	830	19	1000	19	849	No Firm Outage
71	17-Jan	10	0	47	0	884	47	1000	47	932	No Firm Outage
72	17-Jan	11	0	8	0	840	8	1000	8	847	No Firm Outage
73	17-Jan	12	500	17	0	816	0	1000	0	816	No Firm Outage

Appendix C

	A	B	M	N	O	P	Q	R	S	T	U	V	W	X
1			**Path 15 Analysis of Southern California Non-Firm Outages**											
2	**Date**	**Hour**	**Firm Outage MWs in the North**	**Non-Firm Outage MWs in the North**	**Available Megawatts Not Generated in the North**	**Firm Outage MWs in the South**	**Non-Firm Outage MWs in the South**	**Available Megawatts Not Generated in the South**	**MWs needed from Northern California to Alleviate Southern California Firm Outages (See Note 5)**	**Northern California Available Megawatts Not Generated after subtracting out Northern California Firm Outage MWs (See Note 6)**	**Path 15 Unused Capacity (See Note 7)**	**Available MWs Which Would Have Been Sent South to Alleviate FIRM Outages (See Note 8)**	**Northern California Available MWs Not Generated which can be used to Alleviate Northern California NON-Firm Outages (See Note 9)**	**Power Available to send South to Alleviate Southern California NON-Firm Outages (See Note 10)**
38	10-Jan	19	0	264	44	0	0	940	0	44	1000	0	44	0
39	10-Jan	20	0	264	52	0	0	923	0	52	1000	0	52	0
40	11-Jan	7	0	359	51	0	0	1034	0	51	1000	0	51	0
41	11-Jan	8	0	359	54	0	0	646	0	54	1000	0	54	0
42	11-Jan	9	0	359	39	0	0	584	0	39	1000	0	39	0
43	11-Jan	10	0	359	52	0	474	675	0	52	1000	0	52	0
44	11-Jan	11	0	359	50	0	474	695	0	50	1000	0	50	0
45	11-Jan	12	0	359	30	0	474	571	0	30	1000	0	30	0
46	11-Jan	13	0	359	29	0	434	632	0	29	1000	0	29	0
47	11-Jan	17	0	286	32	0	0	618	0	32	1000	0	32	0
48	11-Jan	18	0	286	34	0	0	476	0	34	1000	0	34	0
49	11-Jan	19	0	286	33	0	0	468	0	33	1000	0	33	0
50	11-Jan	20	0	286	36	0	0	626	0	36	1000	0	36	0
51	16-Jan	7	0	0	42	0	821	746	0	42	1000	0	42	42
52	16-Jan	8	0	288	37	0	858	705	0	37	1000	0	37	0
53	16-Jan	9	0	288	95	0	858	838	0	95	1000	0	95	0
54	16-Jan	10	0	288	139	0	858	663	0	139	1000	0	139	0
55	16-Jan	11	0	288	139	0	858	528	0	139	1000	0	139	0
56	16-Jan	12	0	288	149	0	818	454	0	149	1000	0	149	0
57	16-Jan	13	0	288	148	0	0	512	0	148	1000	0	148	0
58	16-Jan	14	0	288	148	0	0	435	0	148	1000	0	148	0
59	16-Jan	17	0	265	145	0	830	530	0	145	1000	0	145	0
60	16-Jan	18	0	265	139	0	830	510	0	139	1000	0	139	0
61	16-Jan	19	0	265	144	0	830	517	0	144	1000	0	144	0
62	16-Jan	20	0	265	82	0	830	581	0	82	1000	0	82	0
63	16-Jan	21	0	265	82	0	830	642	0	82	1000	0	82	0
64	16-Jan	22	0	265	90	0	830	837	0	90	1000	0	90	0
65	16-Jan	23	0	0	87	0	830	1770	0	87	1000	0	87	87
66	16-Jan	24	0	0	87	0	3	2079	0	87	1000	0	87	87
67	17-Jan	6	0	289	95	0	457	1537	0	95	1000	0	95	0
68	17-Jan	7	0	289	74	0	460	1342	0	74	1000	0	74	0
69	17-Jan	8	0	289	18	0	497	1029	0	18	1000	0	18	0
70	17-Jan	9	0	289	19	0	497	830	0	19	1000	0	19	0
71	17-Jan	10	0	289	47	0	497	884	0	47	1000	0	47	0
72	17-Jan	11	0	289	8	0	497	840	0	8	1000	0	8	0
73	17-Jan	12	500	289	17	0	533	816	0	0	1000	0	0	0

Appendix C

	A	B	Y	Z	AA	AB	AC	AE	AF	AG	AH
1			**Path 15 Analysis of Southern California Non-Firm Outages**								
2	**Date**	**Hour**	**New Path 15 Unused Capacity after subtracting out the MWs sent South to Alleviate Southern Firm Outages See Note 11)**	**Available MWs Which Could Have Been Sent South to Alleviate Non-Firm Outages (See Note 12)**	**Available MWs Which Would Have Been Sent North to Alleviate FIRM Outages (See Note 13)**	**Sum of Available MWs Not Generated which could be used to eliminate the Non-Firm Outage in the South (See Note 14)**	**Percent (%) of Southern Non-Firm Outage which is Avoidable Column AV / Column AK)**	**Non-Firm Outage?**	**100% Avoidable?**	**90%-100% Avoidable?**	**50%-89% Avoidable**
38	10-Jan	19	1000	0	0	940	No Non-Firm Outag	No Non-Firm Outa	No Non-Firm Outag	No Non-Firm Outage	No Non-Firm Outage
39	10-Jan	20	1000	0	0	923	No Non-Firm Outag	No Non-Firm Outa	No Non-Firm Outag	No Non-Firm Outage	No Non-Firm Outage
40	11-Jan	7	1000	0	0	1034	No Non-Firm Outag	No Non-Firm Outa	No Non-Firm Outag	No Non-Firm Outage	No Non-Firm Outage
41	11-Jan	8	1000	0	0	646	No Non-Firm Outag	No Non-Firm Outa	No Non-Firm Outag	No Non-Firm Outage	No Non-Firm Outage
42	11-Jan	9	1000	0	0	584	No Non-Firm Outag	No Non-Firm Outa	No Non-Firm Outag	No Non-Firm Outage	No Non-Firm Outage
43	11-Jan	10	1000	0	0	675	142%	TRUE	TRUE	FALSE	FALSE
44	11-Jan	11	1000	0	0	695	147%	TRUE	TRUE	FALSE	FALSE
45	11-Jan	12	1000	0	0	571	121%	TRUE	TRUE	FALSE	FALSE
46	11-Jan	13	1000	0	0	632	146%	TRUE	TRUE	FALSE	FALSE
47	11-Jan	17	1000	0	0	618	No Non-Firm Outag	No Non-Firm Outa	No Non-Firm Outag	No Non-Firm Outage	No Non-Firm Outage
48	11-Jan	18	1000	0	0	476	No Non-Firm Outag	No Non-Firm Outa	No Non-Firm Outag	No Non-Firm Outage	No Non-Firm Outage
49	11-Jan	19	1000	0	0	468	No Non-Firm Outag	No Non-Firm Outa	No Non-Firm Outag	No Non-Firm Outage	No Non-Firm Outage
50	11-Jan	20	1000	0	0	626	No Non-Firm Outag	No Non-Firm Outa	No Non-Firm Outag	No Non-Firm Outage	No Non-Firm Outage
51	16-Jan	7	1000	42	0	788	96%	TRUE	FALSE	TRUE	FALSE
52	16-Jan	8	1000	0	0	705	82%	TRUE	FALSE	FALSE	TRUE
53	16-Jan	9	1000	0	0	838	98%	TRUE	FALSE	TRUE	FALSE
54	16-Jan	10	1000	0	0	663	77%	TRUE	FALSE	FALSE	TRUE
55	16-Jan	11	1000	0	0	528	62%	TRUE	FALSE	FALSE	TRUE
56	16-Jan	12	1000	0	0	454	55%	TRUE	FALSE	FALSE	TRUE
57	16-Jan	13	1000	0	0	512	No Non-Firm Outag	No Non-Firm Outa	No Non-Firm Outag	No Non-Firm Outage	No Non-Firm Outage
58	16-Jan	14	1000	0	0	435	No Non-Firm Outag	No Non-Firm Outa	No Non-Firm Outag	No Non-Firm Outage	No Non-Firm Outage
59	16-Jan	17	1000	0	0	530	64%	TRUE	FALSE	FALSE	TRUE
60	16-Jan	18	1000	0	0	510	61%	TRUE	FALSE	FALSE	TRUE
61	16-Jan	19	1000	0	0	517	62%	TRUE	FALSE	FALSE	TRUE
62	16-Jan	20	1000	0	0	581	70%	TRUE	FALSE	FALSE	TRUE
63	16-Jan	21	1000	0	0	642	77%	TRUE	FALSE	FALSE	TRUE
64	16-Jan	22	1000	0	0	837	101%	TRUE	TRUE	FALSE	FALSE
65	16-Jan	23	1000	87	0	1857	224%	TRUE	TRUE	FALSE	FALSE
66	16-Jan	24	1000	87	0	2166	72193%	TRUE	TRUE	FALSE	FALSE
67	17-Jan	6	1000	0	0	1537	336%	TRUE	TRUE	FALSE	FALSE
68	17-Jan	7	1000	0	0	1342	292%	TRUE	TRUE	FALSE	FALSE
69	17-Jan	8	1000	0	0	1029	207%	TRUE	TRUE	FALSE	FALSE
70	17-Jan	9	1000	0	0	830	167%	TRUE	TRUE	FALSE	FALSE
71	17-Jan	10	1000	0	0	884	178%	TRUE	TRUE	FALSE	FALSE
72	17-Jan	11	1000	0	0	840	169%	TRUE	TRUE	FALSE	FALSE
73	17-Jan	12	1000	0	0	816	153%	TRUE	TRUE	FALSE	FALSE

Appendix C

	A	B	C	D	E	F	G	H	I	J	K
1			**Path 15 Analysis of Southern California Firm Outages**								
2	**Date**	**Hour**	**Firm Outage MWs in the North**	**Available Megawatts Not Generated in the North**	**Firm Outage MWs in the South**	**Available Megawatts Not Generated in the South**	**Available MWs Not Generated in the North After Subtracting Firm Outage MWs in the North (See Note 1)**	**Path 15 Unused MW Capacity (See Note 2)**	**Additional Available Megawatts from the North which can be shipped over Path 15 (See Note 3)**	**Sum of Available MWs Not Generated from the North and South (See Note 4)**	**Percent (%) of Southern Firm Outage which is Avoidable (Column AD / Column Y)**
74	17-Jan	13	500	33	0	805	0	1000	0	805	No Firm Outage
75	17-Jan	14	500	36	0	482	0	1000	0	482	No Firm Outage
76	17-Jan	15	0	18	0	439	18	1000	18	457	No Firm Outage
77	17-Jan	16	0	9	0	399	9	1000	9	408	No Firm Outage
78	17-Jan	17	0	10	0	635	10	1000	10	645	No Firm Outage
79	17-Jan	18	0	9	0	635	9	1000	9	644	No Firm Outage
80	17-Jan	19	0	8	0	399	8	1000	8	407	No Firm Outage
81	17-Jan	20	0	8	0	593	8	1000	8	600	No Firm Outage
82	17-Jan	21	0	8	0	758	8	1000	8	766	No Firm Outage
83	17-Jan	22	0	7	0	987	7	1000	7	994	No Firm Outage
84	17-Jan	23	0	2	0	1668	2	1000	2	1670	No Firm Outage
85	17-Jan	24	0	103	0	2220	103	1000	103	2323	No Firm Outage
86	18-Jan	6	0	77	0	1196	77	1000	77	1273	No Firm Outage
87	18-Jan	7	0	6	0	668	6	1000	6	674	No Firm Outage
88	18-Jan	8	0	4	0	571	4	1000	4	575	No Firm Outage
89	18-Jan	9	0	11	0	823	11	1000	11	834	No Firm Outage
90	18-Jan	10	1000	5	0	737	0	1000	0	737	No Firm Outage
91	18-Jan	11	500	4	0	724	0	1000	0	724	No Firm Outage
92	18-Jan	12	500	5	0	838	0	1000	0	838	No Firm Outage
93	18-Jan	13	0	5	0	936	5	1000	5	941	No Firm Outage
94	18-Jan	14	0	5	0	712	5	1000	5	717	No Firm Outage
95	18-Jan	15	0	3	0	742	3	1000	3	746	No Firm Outage
96	18-Jan	16	0	4	0	717	4	1000	4	720	No Firm Outage
97	18-Jan	17	0	7	0	720	7	1000	7	727	No Firm Outage
98	18-Jan	18	0	8	0	873	8	1000	8	880	No Firm Outage
99	18-Jan	19	0	11	0	868	11	1000	11	879	No Firm Outage
100	18-Jan	20	0	7	0	894	7	1000	7	901	No Firm Outage
101	18-Jan	21	0	6	0	813	6	1000	6	819	No Firm Outage
102	18-Jan	22	0	5	0	1001	5	1000	5	1006	No Firm Outage
103	18-Jan	23	0	5	0	2157	5	1000	5	2162	No Firm Outage
104	19-Jan	6	0	6	0	2338	6	1000	6	2344	No Firm Outage
105	19-Jan	7	0	4	0	1647	4	1000	4	1651	No Firm Outage
106	19-Jan	8	0	3	0	1104	3	1000	3	1107	No Firm Outage
107	19-Jan	9	0	3	0	867	3	1000	3	871	No Firm Outage
108	19-Jan	10	0	3	0	965	3	1000	3	968	No Firm Outage
109	19-Jan	11	0	2	0	902	2	1000	2	904	No Firm Outage

Appendix C

	A	B	M	N	O	P	Q	R	S	T	U	V	W	X
1			**Path 15 Analysis of Southern California Non-Firm Outages**											
2	**Date**	**Hour**	**Firm Outage MWs in the North**	**Non-Firm Outage MWs in the North**	**Available Megawatts Not Generated in the North**	**Firm Outage MWs in the South**	**Non-Firm Outage MWs in the South**	**Available Megawatts Not Generated in the South**	**MWs needed from Northern California to Alleviate Southern California Firm Outages (See Note 5)**	**Northern California Available Megawatts Not Generated after subtracting out Northern California Firm Outage MWs (See Note 6)**	**Path 15 Unused Capacity (See Note 7)**	**Available MWs Which Would Have Been Sent South to Alleviate FIRM Outages (See Note 8)**	**Northern California Available MWs Not Generated which can be used to Alleviate Northern California NON-Firm Outages (See Note 9)**	**Power Available to send South to Alleviate Southern California NON-Firm Outages (See Note 10)**
74	17-Jan	13	500	289	33	0	533	805	0	0	1000	0	0	0
75	17-Jan	14	500	289	36	0	533	482	0	0	1000	0	0	0
76	17-Jan	15	0	289	18	0	533	439	0	18	1000	0	18	0
77	17-Jan	16	0	289	9	0	533	399	0	9	1000	0	9	0
78	17-Jan	17	0	289	10	0	533	635	0	10	1000	0	10	0
79	17-Jan	18	0	289	9	0	552	635	0	9	1000	0	9	0
80	17-Jan	19	0	289	8	0	552	399	0	8	1000	0	8	0
81	17-Jan	20	0	289	8	0	552	593	0	8	1000	0	8	0
82	17-Jan	21	0	289	8	0	552	758	0	8	1000	0	8	0
83	17-Jan	22	0	289	7	0	552	987	0	7	1000	0	7	0
84	17-Jan	23	0	289	2	0	552	1668	0	2	1000	0	2	0
85	17-Jan	24	0	289	103	0	3	2220	0	103	1000	0	103	0
86	18-Jan	6	0	0	77	0	490	1196	0	77	1000	0	77	77
87	18-Jan	7	0	250	6	0	490	668	0	6	1000	0	6	0
88	18-Jan	8	0	250	4	0	527	571	0	4	1000	0	4	0
89	18-Jan	9	0	250	11	0	527	823	0	11	1000	0	11	0
90	18-Jan	10	1000	250	5	0	527	737	0	0	1000	0	0	0
91	18-Jan	11	500	250	4	0	527	724	0	0	1000	0	0	0
92	18-Jan	12	500	250	5	0	584	838	0	0	1000	0	0	0
93	18-Jan	13	0	250	5	0	584	936	0	5	1000	0	5	0
94	18-Jan	14	0	250	5	0	584	712	0	5	1000	0	5	0
95	18-Jan	15	0	250	3	0	584	742	0	3	1000	0	3	0
96	18-Jan	16	0	250	4	0	584	717	0	4	1000	0	4	0
97	18-Jan	17	0	250	7	0	584	720	0	7	1000	0	7	0
98	18-Jan	18	0	250	8	0	677	873	0	8	1000	0	8	0
99	18-Jan	19	0	250	11	0	677	868	0	11	1000	0	11	0
100	18-Jan	20	0	250	7	0	677	894	0	7	1000	0	7	0
101	18-Jan	21	0	250	6	0	677	813	0	6	1000	0	6	0
102	18-Jan	22	0	250	5	0	677	1001	0	5	1000	0	5	0
103	18-Jan	23	0	250	5	0	3	2157	0	5	1000	0	5	0
104	19-Jan	6	0	306	6	0	828	2338	0	6	1000	0	6	0
105	19-Jan	7	0	306	4	0	828	1647	0	4	1000	0	4	0
106	19-Jan	8	0	306	3	0	865	1104	0	3	1000	0	3	0
107	19-Jan	9	0	306	3	0	865	867	0	3	1000	0	3	0
108	19-Jan	10	0	306	3	0	865	965	0	3	1000	0	3	0
109	19-Jan	11	0	306	2	0	580	902	0	2	1000	0	2	0

Appendix C

	A	B	Y	Z	AA	AB	AC	AE	AF	AG	AH
1			**Path 15 Analysis of Southern California Non-Firm Outages**								
2	**Date**	**Hour**	**New Path 15 Unused Capacity after subtracting out the MWs sent South to Alleviate Southern Firm Outages See Note 11)**	**Available MWs Which Could Have Been Sent South to Alleviate Non-Firm Outages (See Note 12)**	**Available MWs Which Would Have Been Sent North to Alleviate FIRM Outages (See Note 13)**	**Sum of Available MWs Not Generated which could be used to eliminate the Non-Firm Outage in the South (See Note 14)**	**Percent (%) of Southern Non-Firm Outage which is Avoidable Column AV / Column AK)**	**Non-Firm Outage?**	**100% Avoidable?**	**90%-100% Avoidable?**	**50%-89% Avoidable**
74	17-Jan	13	1000	0	0	805	151%	TRUE	TRUE	FALSE	FALSE
75	17-Jan	14	1000	0	0	482	90%	TRUE	FALSE	TRUE	FALSE
76	17-Jan	15	1000	0	0	439	82%	TRUE	FALSE	FALSE	TRUE
77	17-Jan	16	1000	0	0	399	75%	TRUE	FALSE	FALSE	TRUE
78	17-Jan	17	1000	0	0	635	119%	TRUE	TRUE	FALSE	FALSE
79	17-Jan	18	1000	0	0	635	115%	TRUE	TRUE	FALSE	FALSE
80	17-Jan	19	1000	0	0	399	72%	TRUE	FALSE	FALSE	TRUE
81	17-Jan	20	1000	0	0	593	107%	TRUE	TRUE	FALSE	FALSE
82	17-Jan	21	1000	0	0	758	137%	TRUE	TRUE	FALSE	FALSE
83	17-Jan	22	1000	0	0	987	179%	TRUE	TRUE	FALSE	FALSE
84	17-Jan	23	1000	0	0	1668	302%	TRUE	TRUE	FALSE	FALSE
85	17-Jan	24	1000	0	0	2220	73985%	TRUE	TRUE	FALSE	FALSE
86	18-Jan	6	1000	77	0	1273	260%	TRUE	TRUE	FALSE	FALSE
87	18-Jan	7	1000	0	0	668	136%	TRUE	TRUE	FALSE	FALSE
88	18-Jan	8	1000	0	0	571	108%	TRUE	TRUE	FALSE	FALSE
89	18-Jan	9	1000	0	0	823	156%	TRUE	TRUE	FALSE	FALSE
90	18-Jan	10	1000	0	0	737	140%	TRUE	TRUE	FALSE	FALSE
91	18-Jan	11	1000	0	0	724	137%	TRUE	TRUE	FALSE	FALSE
92	18-Jan	12	1000	0	46	792	136%	TRUE	TRUE	FALSE	FALSE
93	18-Jan	13	1000	0	0	936	160%	TRUE	TRUE	FALSE	FALSE
94	18-Jan	14	1000	0	0	712	122%	TRUE	TRUE	FALSE	FALSE
95	18-Jan	15	1000	0	0	742	127%	TRUE	TRUE	FALSE	FALSE
96	18-Jan	16	1000	0	0	717	123%	TRUE	TRUE	FALSE	FALSE
97	18-Jan	17	1000	0	0	720	123%	TRUE	TRUE	FALSE	FALSE
98	18-Jan	18	1000	0	0	873	129%	TRUE	TRUE	FALSE	FALSE
99	18-Jan	19	1000	0	0	868	128%	TRUE	TRUE	FALSE	FALSE
100	18-Jan	20	1000	0	0	894	132%	TRUE	TRUE	FALSE	FALSE
101	18-Jan	21	1000	0	0	813	120%	TRUE	TRUE	FALSE	FALSE
102	18-Jan	22	1000	0	0	1001	148%	TRUE	TRUE	FALSE	FALSE
103	18-Jan	23	1000	0	0	2157	71910%	TRUE	TRUE	FALSE	FALSE
104	19-Jan	6	1000	0	0	2338	282%	TRUE	TRUE	FALSE	FALSE
105	19-Jan	7	1000	0	0	1647	199%	TRUE	TRUE	FALSE	FALSE
106	19-Jan	8	1000	0	0	1104	128%	TRUE	TRUE	FALSE	FALSE
107	19-Jan	9	1000	0	0	867	100%	TRUE	TRUE	FALSE	FALSE
108	19-Jan	10	1000	0	0	965	112%	TRUE	TRUE	FALSE	FALSE
109	19-Jan	11	1000	0	0	902	155%	TRUE	TRUE	FALSE	FALSE

Appendix C

	A	B	C	D	E	F	G	H	I	J	K
1			**Path 15 Analysis of Southern California Firm Outages**								
2	**Date**	**Hour**	**Firm Outage MWs in the North**	**Available Megawatts Not Generated in the North**	**Firm Outage MWs in the South**	**Available Megawatts Not Generated in the South**	**Available MWs Not Generated in the North After Subtracting Firm Outage MWs in the North (See Note 1)**	**Path 15 Unused MW Capacity (See Note 2)**	**Additional Available Megawatts from the North which can be shipped over Path 15 (See Note 3)**	**Sum of Available MWs Not Generated from the North and South (See Note 4)**	**Percent (%) of Southern Firm Outage which is Avoidable (Column AD / Column Y)**
110	19-Jan	12	0	2	0	836	2	1000	2	838	No Firm Outage
111	19-Jan	13	0	40	0	828	40	1000	40	868	No Firm Outage
112	19-Jan	14	0	34	0	560	34	1000	34	594	No Firm Outage
113	19-Jan	15	0	43	0	718	43	1000	43	761	No Firm Outage
114	19-Jan	16	0	57	0	602	57	1000	57	659	No Firm Outage
115	20-Jan	11	0	8	0	2544	8	1000	8	2552	No Firm Outage
116	20-Jan	12	0	8	0	2082	8	1000	8	2090	No Firm Outage
117	20-Jan	13	0	6	0	2201	6	1000	6	2208	No Firm Outage
118	20-Jan	14	0	7	0	1954	7	1000	7	1961	No Firm Outage
119	20-Jan	15	0	8	0	2311	8	1000	8	2319	No Firm Outage
120	20-Jan	16	0	11	0	2179	11	1000	11	2190	No Firm Outage
121	20-Jan	17	0	16	0	2484	16	1000	16	2499	No Firm Outage
122	20-Jan	18	0	18	0	2467	18	1000	18	2484	No Firm Outage
123	20-Jan	19	0	27	0	2268	27	1000	27	2294	No Firm Outage
124	20-Jan	20	0	29	0	2264	29	1000	29	2293	No Firm Outage
125	21-Jan	14	0	10	0	3183	10	1000	10	3193	No Firm Outage
126	21-Jan	15	101	8	0	4192	0	1000	0	4192	No Firm Outage
127	21-Jan	16	0	8	0	4073	8	1000	8	4081	No Firm Outage
128	21-Jan	17	0	9	0	3942	9	1000	9	3952	No Firm Outage
129	21-Jan	18	0	18	0	3113	18	1000	18	3131	No Firm Outage
130	21-Jan	19	0	20	0	2585	20	1000	20	2605	No Firm Outage
131	21-Jan	20	0	18	0	2618	18	1000	18	2636	No Firm Outage
132	26-Jan	11	0	11	0	737	11	1000	11	748	No Firm Outage
133	26-Jan	12	0	16	0	774	16	1000	16	790	No Firm Outage
134	26-Jan	13	0	15	0	741	15	1000	15	756	No Firm Outage
135	26-Jan	14	0	15	0	891	15	1000	15	906	No Firm Outage
136	26-Jan	15	0	14	0	1415	14	1000	14	1430	No Firm Outage
137	26-Jan	16	0	10	0	1603	10	1000	10	1613	No Firm Outage
138	26-Jan	17	0	9	0	1587	9	1000	9	1597	No Firm Outage
139	26-Jan	18	0	10	0	1525	10	1000	10	1536	No Firm Outage
140	26-Jan	19	0	14	0	871	14	1000	14	885	No Firm Outage
141	12-Feb	17	0	9	0	815	9	1000	9	824	No Firm Outage
142	12-Feb	18	0	10	0	787	10	1000	10	797	No Firm Outage
143	12-Feb	19	0	10	0	971	10	1000	10	981	No Firm Outage
144	12-Feb	20	0	10	0	826	10	1000	10	836	No Firm Outage
145	12-Feb	21	0	12	0	647	12	1000	12	658	No Firm Outage

Appendix C

	A	B	M	N	O	P	Q	R	S	T	U	V	W	X
1			**Path 15 Analysis of Southern California Non-Firm Outages**											
2	**Date**	**Hour**	**Firm Outage MWs in the North**	**Non-Firm Outage MWs in the North**	**Available Megawatts Not Generated in the North**	**Firm Outage MWs in the South**	**Non-Firm Outage MWs in the South**	**Available Megawatts Not Generated in the South**	**MWs needed from Northern California to Alleviate Southern California Firm Outages (See Note 5)**	**Northern California Available Megawatts Not Generated after subtracting out Northern California Firm Outage MWs (See Note 6)**	**Path 15 Unused Capacity (See Note 7)**	**Available MWs Which Would Have Been Sent South to Alleviate FIRM Outages (See Note 8)**	**Northern California Available MWs Not Generated which can be used to Alleviate Northern California NON-Firm Outages (See Note 9)**	**Power Available to send South to Alleviate Southern California NON-Firm Outages (See Note 10)**
110	19-Jan	12	0	229	2	0	580	836	0	2	1000	0	2	0
111	19-Jan	13	0	229	40	0	540	828	0	40	1000	0	40	0
112	19-Jan	14	0	229	34	0	0	560	0	34	1000	0	34	0
113	19-Jan	15	0	229	43	0	0	718	0	43	1000	0	43	0
114	19-Jan	16	0	229	57	0	0	602	0	57	1000	0	57	0
115	20-Jan	11	0	257	8	0	0	2544	0	8	1000	0	8	0
116	20-Jan	12	0	257	8	0	0	2082	0	8	1000	0	8	0
117	20-Jan	13	0	257	6	0	0	2201	0	6	1000	0	6	0
118	20-Jan	14	0	257	7	0	0	1954	0	7	1000	0	7	0
119	20-Jan	15	0	257	8	0	0	2311	0	8	1000	0	8	0
120	20-Jan	16	0	257	11	0	0	2179	0	11	1000	0	11	0
121	20-Jan	17	0	257	16	0	0	2484	0	16	1000	0	16	0
122	20-Jan	18	0	257	18	0	0	2467	0	18	1000	0	18	0
123	20-Jan	19	0	257	27	0	0	2268	0	27	1000	0	27	0
124	20-Jan	20	0	257	29	0	0	2264	0	29	1000	0	29	0
125	21-Jan	14	0	234	10	0	0	3183	0	10	1000	0	10	0
126	21-Jan	15	101	234	8	0	0	4192	0	0	1000	0	0	0
127	21-Jan	16	0	234	8	0	0	4073	0	8	1000	0	8	0
128	21-Jan	17	0	234	9	0	0	3942	0	9	1000	0	9	0
129	21-Jan	18	0	234	18	0	0	3113	0	18	1000	0	18	0
130	21-Jan	19	0	234	20	0	0	2585	0	20	1000	0	20	0
131	21-Jan	20	0	234	18	0	0	2618	0	18	1000	0	18	0
132	26-Jan	11	0	60	11	0	994	737	0	11	1000	0	11	0
133	26-Jan	12	0	60	16	0	994	774	0	16	1000	0	16	0
134	26-Jan	13	0	60	15	0	994	741	0	15	1000	0	15	0
135	26-Jan	14	0	60	15	0	994	891	0	15	1000	0	15	0
136	26-Jan	15	0	60	14	0	994	1415	0	14	1000	0	14	0
137	26-Jan	16	0	60	10	0	994	1603	0	10	1000	0	10	0
138	26-Jan	17	0	60	9	0	152	1587	0	9	1000	0	9	0
139	26-Jan	18	0	60	10	0	152	1525	0	10	1000	0	10	0
140	26-Jan	19	0	60	14	0	152	871	0	14	1000	0	14	0
141	12-Feb	17	0	48	9	0	0	815	0	9	1000	0	9	0
142	12-Feb	18	0	48	10	0	264	787	0	10	1000	0	10	0
143	12-Feb	19	0	48	10	0	264	971	0	10	1000	0	10	0
144	12-Feb	20	0	48	10	0	264	826	0	10	1000	0	10	0
145	12-Feb	21	0	48	12	0	264	647	0	12	1000	0	12	0

Appendix C

	A	B	Y	Z	AA	AB	AC	AE	AF	AG	AH
1			**Path 15 Analysis of Southern California Non-Firm Outages**								
2	**Date**	**Hour**	**New Path 15 Unused Capacity after subtracting out the MWs sent South to Alleviate Southern Firm Outages See Note 11)**	**Available MWs Which Could Have Been Sent South to Alleviate Non-Firm Outages (See Note 12)**	**Available MWs Which Would Have Been Sent North to Alleviate FIRM Outages (See Note 13)**	**Sum of Available MWs Not Generated which could be used to eliminate the Non-Firm Outage in the South (See Note 14)**	**Percent (%) of Southern Non-Firm Outage which is Avoidable Column AV / Column AK)**	**Non-Firm Outage?**	**100% Avoidable?**	**90%-100% Avoidable?**	**50%-89% Avoidable**
110	19-Jan	12	1000	0	0	836	144%	TRUE	TRUE	FALSE	FALSE
111	19-Jan	13	1000	0	0	828	153%	TRUE	TRUE	FALSE	FALSE
112	19-Jan	14	1000	0	0	560	No Non-Firm Outag	No Non-Firm Outa	No Non-Firm Outa	No Non-Firm Outage	No Non-Firm Outage
113	19-Jan	15	1000	0	0	718	No Non-Firm Outag	No Non-Firm Outa	No Non-Firm Outa	No Non-Firm Outage	No Non-Firm Outage
114	19-Jan	16	1000	0	0	602	No Non-Firm Outag	No Non-Firm Outa	No Non-Firm Outa	No Non-Firm Outage	No Non-Firm Outage
115	20-Jan	11	1000	0	0	2544	No Non-Firm Outag	No Non-Firm Outa	No Non-Firm Outa	No Non-Firm Outage	No Non-Firm Outage
116	20-Jan	12	1000	0	0	2082	No Non-Firm Outag	No Non-Firm Outa	No Non-Firm Outa	No Non-Firm Outage	No Non-Firm Outage
117	20-Jan	13	1000	0	0	2201	No Non-Firm Outag	No Non-Firm Outa	No Non-Firm Outa	No Non-Firm Outage	No Non-Firm Outage
118	20-Jan	14	1000	0	0	1954	No Non-Firm Outag	No Non-Firm Outa	No Non-Firm Outa	No Non-Firm Outage	No Non-Firm Outage
119	20-Jan	15	1000	0	0	2311	No Non-Firm Outag	No Non-Firm Outa	No Non-Firm Outa	No Non-Firm Outage	No Non-Firm Outage
120	20-Jan	16	1000	0	0	2179	No Non-Firm Outag	No Non-Firm Outa	No Non-Firm Outa	No Non-Firm Outage	No Non-Firm Outage
121	20-Jan	17	1000	0	0	2484	No Non-Firm Outag	No Non-Firm Outa	No Non-Firm Outa	No Non-Firm Outage	No Non-Firm Outage
122	20-Jan	18	1000	0	0	2467	No Non-Firm Outag	No Non-Firm Outa	No Non-Firm Outa	No Non-Firm Outage	No Non-Firm Outage
123	20-Jan	19	1000	0	0	2268	No Non-Firm Outag	No Non-Firm Outa	No Non-Firm Outa	No Non-Firm Outage	No Non-Firm Outage
124	20-Jan	20	1000	0	0	2264	No Non-Firm Outag	No Non-Firm Outa	No Non-Firm Outa	No Non-Firm Outage	No Non-Firm Outage
125	21-Jan	14	1000	0	0	3183	No Non-Firm Outag	No Non-Firm Outa	No Non-Firm Outa	No Non-Firm Outage	No Non-Firm Outage
126	21-Jan	15	1000	0	0	4192	No Non-Firm Outag	No Non-Firm Outa	No Non-Firm Outa	No Non-Firm Outage	No Non-Firm Outage
127	21-Jan	16	1000	0	0	4073	No Non-Firm Outag	No Non-Firm Outa	No Non-Firm Outa	No Non-Firm Outage	No Non-Firm Outage
128	21-Jan	17	1000	0	0	3942	No Non-Firm Outag	No Non-Firm Outa	No Non-Firm Outa	No Non-Firm Outage	No Non-Firm Outage
129	21-Jan	18	1000	0	0	3113	No Non-Firm Outag	No Non-Firm Outa	No Non-Firm Outa	No Non-Firm Outage	No Non-Firm Outage
130	21-Jan	19	1000	0	0	2585	No Non-Firm Outag	No Non-Firm Outa	No Non-Firm Outa	No Non-Firm Outage	No Non-Firm Outage
131	21-Jan	20	1000	0	0	2618	No Non-Firm Outag	No Non-Firm Outa	No Non-Firm Outa	No Non-Firm Outage	No Non-Firm Outage
132	26-Jan	11	1000	0	0	737	74%	TRUE	FALSE	FALSE	TRUE
133	26-Jan	12	1000	0	0	774	78%	TRUE	FALSE	FALSE	TRUE
134	26-Jan	13	1000	0	0	741	75%	TRUE	FALSE	FALSE	TRUE
135	26-Jan	14	1000	0	0	891	90%	TRUE	FALSE	FALSE	TRUE
136	26-Jan	15	1000	0	0	1415	142%	TRUE	TRUE	FALSE	FALSE
137	26-Jan	16	1000	0	0	1603	161%	TRUE	TRUE	FALSE	FALSE
138	26-Jan	17	1000	0	0	1587	1044%	TRUE	TRUE	FALSE	FALSE
139	26-Jan	18	1000	0	0	1525	1004%	TRUE	TRUE	FALSE	FALSE
140	26-Jan	19	1000	0	0	871	573%	TRUE	TRUE	FALSE	FALSE
141	12-Feb	17	1000	0	0	815	No Non-Firm Outag	No Non-Firm Outa	No Non-Firm Outa	No Non-Firm Outage	No Non-Firm Outage
142	12-Feb	18	1000	0	0	787	298%	TRUE	TRUE	FALSE	FALSE
143	12-Feb	19	1000	0	0	971	368%	TRUE	TRUE	FALSE	FALSE
144	12-Feb	20	1000	0	0	826	313%	TRUE	TRUE	FALSE	FALSE
145	12-Feb	21	1000	0	0	647	245%	TRUE	TRUE	FALSE	FALSE

Appendix C

	A	B	C	D	E	F	G	H	I	J	K
1			**Path 15 Analysis of Southern California Firm Outages**								
2	**Date**	**Hour**	**Firm Outage MWs in the North**	**Available Megawatts Not Generated in the North**	**Firm Outage MWs in the South**	**Available Megawatts Not Generated in the South**	**Available MWs Not Generated in the North After Subtracting Firm Outage MWs in the North (See Note 1)**	**Path 15 Unused MW Capacity (See Note 2)**	**Additional Available Megawatts from the North which can be shipped over Path 15 (See Note 3)**	**Sum of Available MWs Not Generated from the North and South (See Note 4)**	**Percent (%) of Southern Firm Outage which is Avoidable (Column AD / Column Y)**
146	12-Feb	22	0	13	0	1021	13	1000	13	1034	No Firm Outage
147	13-Feb	17	0	12	0	511	12	1000	12	523	No Firm Outage
148	13-Feb	18	0	19	0	950	19	1000	19	968	No Firm Outage
149	13-Feb	19	0	18	0	1066	18	1000	18	1084	No Firm Outage
150	13-Feb	20	0	21	0	709	21	1000	21	730	No Firm Outage
151	13-Feb	21	0	21	0	561	21	1000	21	582	No Firm Outage
152	13-Feb	22	0	22	0	850	22	1000	22	872	No Firm Outage
153	14-Feb	10	0	17	0	539	17	1000	17	556	No Firm Outage
154	14-Feb	11	0	20	0	357	20	1000	20	377	No Firm Outage
155	14-Feb	12	0	15	0	600	15	1000	15	615	No Firm Outage
156	14-Feb	13	0	27	0	553	27	1000	27	580	No Firm Outage
157	14-Feb	14	0	19	0	378	19	1000	19	397	No Firm Outage
158	14-Feb	15	0	19	0	882	19	1000	19	900	No Firm Outage
159	15-Feb	8	0	10	0	548	10	1000	10	558	No Firm Outage
160	15-Feb	9	0	9	0	348	9	1000	9	357	No Firm Outage
161	15-Feb	10	0	9	0	405	9	1000	9	414	No Firm Outage
162	15-Feb	11	0	11	0	441	11	1000	11	453	No Firm Outage
163	15-Feb	12	0	14	0	554	14	1000	14	568	No Firm Outage
164	15-Feb	13	0	16	0	572	16	1000	16	588	No Firm Outage
165	15-Feb	17	0	14	0	735	14	1000	14	749	No Firm Outage
166	15-Feb	18	0	13	0	719	13	1000	13	732	No Firm Outage
167	15-Feb	19	0	13	0	775	13	1000	13	788	No Firm Outage
168	15-Feb	20	0	18	0	738	18	1000	18	756	No Firm Outage
169	15-Feb	21	0	15	0	762	15	1000	15	777	No Firm Outage
170	15-Feb	22	0	30	0	799	30	1000	30	829	No Firm Outage
171	15-Feb	23	0	16	0	1489	16	1000	16	1505	No Firm Outage
172	28-Feb	17	0	97	0	1015	97	1000	97	1112	No Firm Outage
173	28-Feb	18	0	128	0	1214	128	1000	128	1341	No Firm Outage
174	28-Feb	19	0	125	0	899	125	1000	125	1024	No Firm Outage
175	28-Feb	20	0	112	0	855	112	1000	112	966	No Firm Outage
176	15-Mar	15	0	223	0	745	223	1000	223	968	No Firm Outage
177	15-Mar	16	0	219	0	784	219	1000	219	1004	No Firm Outage
178	15-Mar	17	0	280	0	786	280	1000	280	1066	No Firm Outage
179	15-Mar	18	0	281	0	1090	281	1000	281	1370	No Firm Outage
180	15-Mar	19	0	180	0	710	180	1000	180	890	No Firm Outage
181	15-Mar	20	0	171	0	864	171	1000	171	1035	No Firm Outage

Appendix C

	A	B	M	N	O	P	Q	R	S	T	U	V	W	X
1			**Path 15 Analysis of Southern California Non-Firm Outages**											
2	**Date**	**Hour**	**Firm Outage MWs in the North**	**Non-Firm Outage MWs in the North**	**Available Megawatts Not Generated in the North**	**Firm Outage MWs in the South**	**Non-Firm Outage MWs in the South**	**Available Megawatts Not Generated in the South**	**MWs needed from Northern California to Alleviate Southern California Firm Outages (See Note 5)**	**Northern California Available Megawatts Not Generated after subtracting out Northern California Firm Outage MWs (See Note 6)**	**Path 15 Unused Capacity (See Note 7)**	**Available MWs Which Would Have Been Sent South to Alleviate FIRM Outages (See Note 8)**	**Northern California Available MWs Not Generated which can be used to Alleviate Northern California NON-Firm Outages (See Note 9)**	**Power Available to send South to Alleviate Southern California NON-Firm Outages (See Note 10)**
146	12-Feb	22	0	48	13	0	264	1021	0	13	1000	0	13	0
147	13-Feb	17	0	21	12	0	231	511	0	12	1000	0	12	0
148	13-Feb	18	0	21	19	0	231	950	0	19	1000	0	19	0
149	13-Feb	19	0	21	18	0	231	1066	0	18	1000	0	18	0
150	13-Feb	20	0	21	21	0	231	709	0	21	1000	0	21	0
151	13-Feb	21	0	21	21	0	231	561	0	21	1000	0	21	0
152	13-Feb	22	0	21	22	0	231	850	0	22	1000	0	22	1
153	14-Feb	10	0	21	17	0	236	539	0	17	1000	0	17	0
154	14-Feb	11	0	21	20	0	236	357	0	20	1000	0	20	0
155	14-Feb	12	0	21	15	0	236	600	0	15	1000	0	15	0
156	14-Feb	13	0	21	27	0	236	553	0	27	1000	0	27	6
157	14-Feb	14	0	21	19	0	236	378	0	19	1000	0	19	0
158	14-Feb	15	0	21	19	0	236	882	0	19	1000	0	19	0
159	15-Feb	8	0	7	10	0	140	548	0	10	1000	0	10	3
160	15-Feb	9	0	7	9	0	140	348	0	9	1000	0	9	2
161	15-Feb	10	0	7	9	0	140	405	0	9	1000	0	9	2
162	15-Feb	11	0	7	11	0	140	441	0	11	1000	0	11	4
163	15-Feb	12	0	7	14	0	140	554	0	14	1000	0	14	7
164	15-Feb	13	0	7	16	0	140	572	0	16	1000	0	16	9
165	15-Feb	17	0	7	14	0	189	735	0	14	1000	0	14	7
166	15-Feb	18	0	7	13	0	189	719	0	13	1000	0	13	6
167	15-Feb	19	0	7	13	0	189	775	0	13	1000	0	13	6
168	15-Feb	20	0	7	18	0	189	738	0	18	1000	0	18	11
169	15-Feb	21	0	7	15	0	189	762	0	15	1000	0	15	8
170	15-Feb	22	0	7	30	0	189	799	0	30	1000	0	30	23
171	15-Feb	23	0	7	16	0	189	1489	0	16	1000	0	16	9
172	28-Feb	17	0	0	97	0	179	1015	0	97	1000	0	97	97
173	28-Feb	18	0	0	128	0	179	1214	0	128	1000	0	128	128
174	28-Feb	19	0	0	125	0	179	899	0	125	1000	0	125	125
175	28-Feb	20	0	0	112	0	179	855	0	112	1000	0	112	112
176	15-Mar	15	0	41	223	0	272	745	0	223	1000	0	223	182
177	15-Mar	16	0	41	219	0	272	784	0	219	1000	0	219	178
178	15-Mar	17	0	41	280	0	272	786	0	280	1000	0	280	239
179	15-Mar	18	0	41	281	0	272	1090	0	281	1000	0	281	240
180	15-Mar	19	0	41	180	0	272	710	0	180	1000	0	180	139
181	15-Mar	20	0	41	171	0	272	864	0	171	1000	0	171	130

	A	B	Y	Z	AA	AB	AC	AE	AF	AG	AH
1			**Path 15 Analysis of Southern California Non-Firm Outages**								
2	**Date**	**Hour**	**New Path 15 Unused Capacity after subtracting out the MWs sent South to Alleviate Southern Firm Outages See Note 11)**	**Available MWs Which Could Have Been Sent South to Alleviate Non-Firm Outages (See Note 12)**	**Available MWs Which Would Have Been Sent North to Alleviate FIRM Outages (See Note 13)**	**Sum of Available MWs Not Generated which could be used to eliminate the Non-Firm Outage in the South (See Note 14)**	**Percent (%) of Southern Non-Firm Outage which is Avoidable Column AV / Column AK)**	**Non-Firm Outage?**	**100% Avoidable?**	**90%-100% Avoidable?**	**50%-89% Avoidable**
146	12-Feb	22	1000	0	0	1021	387%	TRUE	TRUE	FALSE	FALSE
147	13-Feb	17	1000	0	0	511	221%	TRUE	TRUE	FALSE	FALSE
148	13-Feb	18	1000	0	0	950	411%	TRUE	TRUE	FALSE	FALSE
149	13-Feb	19	1000	0	0	1066	461%	TRUE	TRUE	FALSE	FALSE
150	13-Feb	20	1000	0	0	709	307%	TRUE	TRUE	FALSE	FALSE
151	13-Feb	21	1000	0	0	561	243%	TRUE	TRUE	FALSE	FALSE
152	13-Feb	22	1000	1	0	851	368%	TRUE	TRUE	FALSE	FALSE
153	14-Feb	10	1000	0	0	539	228%	TRUE	TRUE	FALSE	FALSE
154	14-Feb	11	1000	0	0	357	151%	TRUE	TRUE	FALSE	FALSE
155	14-Feb	12	1000	0	0	600	254%	TRUE	TRUE	FALSE	FALSE
156	14-Feb	13	1000	6	0	559	237%	TRUE	TRUE	FALSE	FALSE
157	14-Feb	14	1000	0	0	378	160%	TRUE	TRUE	FALSE	FALSE
158	14-Feb	15	1000	0	0	882	374%	TRUE	TRUE	FALSE	FALSE
159	15-Feb	8	1000	3	0	551	394%	TRUE	TRUE	FALSE	FALSE
160	15-Feb	9	1000	2	0	350	250%	TRUE	TRUE	FALSE	FALSE
161	15-Feb	10	1000	2	0	407	291%	TRUE	TRUE	FALSE	FALSE
162	15-Feb	11	1000	4	0	446	318%	TRUE	TRUE	FALSE	FALSE
163	15-Feb	12	1000	7	0	561	401%	TRUE	TRUE	FALSE	FALSE
164	15-Feb	13	1000	9	0	581	415%	TRUE	TRUE	FALSE	FALSE
165	15-Feb	17	1000	7	0	742	392%	TRUE	TRUE	FALSE	FALSE
166	15-Feb	18	1000	6	0	725	383%	TRUE	TRUE	FALSE	FALSE
167	15-Feb	19	1000	6	0	781	413%	TRUE	TRUE	FALSE	FALSE
168	15-Feb	20	1000	11	0	749	396%	TRUE	TRUE	FALSE	FALSE
169	15-Feb	21	1000	8	0	770	407%	TRUE	TRUE	FALSE	FALSE
170	15-Feb	22	1000	23	0	822	435%	TRUE	TRUE	FALSE	FALSE
171	15-Feb	23	1000	9	0	1498	792%	TRUE	TRUE	FALSE	FALSE
172	28-Feb	17	1000	97	0	1112	621%	TRUE	TRUE	FALSE	FALSE
173	28-Feb	18	1000	128	0	1341	749%	TRUE	TRUE	FALSE	FALSE
174	28-Feb	19	1000	125	0	1024	572%	TRUE	TRUE	FALSE	FALSE
175	28-Feb	20	1000	112	0	966	540%	TRUE	TRUE	FALSE	FALSE
176	15-Mar	15	1000	182	0	927	341%	TRUE	TRUE	FALSE	FALSE
177	15-Mar	16	1000	178	0	963	354%	TRUE	TRUE	FALSE	FALSE
178	15-Mar	17	1000	239	0	1025	377%	TRUE	TRUE	FALSE	FALSE
179	15-Mar	18	1000	240	0	1329	489%	TRUE	TRUE	FALSE	FALSE
180	15-Mar	19	1000	139	0	849	312%	TRUE	TRUE	FALSE	FALSE
181	15-Mar	20	1000	130	0	994	365%	TRUE	TRUE	FALSE	FALSE

Appendix C

	A	B	C	D	E	F	G	H	I	J	K
1			**Path 15 Analysis of Southern California Firm Outages**								
2	**Date**	**Hour**	**Firm Outage MWs in the North**	**Available Megawatts Not Generated in the North**	**Firm Outage MWs in the South**	**Available Megawatts Not Generated in the South**	**Available MWs Not Generated in the North After Subtracting Firm Outage MWs in the North (See Note 1)**	**Path 15 Unused MW Capacity (See Note 2)**	**Additional Available Megawatts from the North which can be shipped over Path 15 (See Note 3)**	**Sum of Available MWs Not Generated from the North and South (See Note 4)**	**Percent (%) of Southern Firm Outage which is Avoidable (Column AD / Column Y)**
182	19-Mar	10	0	105	0	296	105	1000	105	401	No Firm Outage
183	19-Mar	11	0	7	0	330	7	1000	7	337	No Firm Outage
184	19-Mar	12	248	10	252	165	0	1000	0	165	66%
185	19-Mar	13	496	12	504	469	0	1000	0	469	93%
186	19-Mar	14	397	19	403	528	0	1000	0	528	131%
187	19-Mar	15	397	64	403	427	0	1000	0	427	106%
188	19-Mar	16	199	17	202	638	0	1000	0	638	316%
189	19-Mar	17	199	18	202	624	0	1000	0	624	309%
190	19-Mar	18	0	17	0	602	17	1000	17	619	No Firm Outage
191	19-Mar	19	0	17	0	671	17	1000	17	688	No Firm Outage
192	19-Mar	20	0	19	0	563	19	1000	19	582	No Firm Outage
193	20-Mar	9	0	136	0	236	136	1000	136	372	No Firm Outage
194	20-Mar	10	248	53	252	337	0	1000	0	337	134%
195	20-Mar	11	248	5	252	421	0	1000	0	421	167%
196	20-Mar	12	149	7	151	582	0	1000	0	582	385%
197	20-Mar	13	149	9	151	554	0	1000	0	554	367%
198	20-Mar	14	149	13	151	454	0	1000	0	454	300%
199	20-Mar	15	149	15	151	511	0	1000	0	511	339%
200	20-Mar	16	0	34	0	545	34	1000	34	579	No Firm Outage
201	20-Mar	17	0	146	0	473	146	1000	146	619	No Firm Outage
202	20-Mar	18	0	164	0	544	164	1000	164	707	No Firm Outage
203	20-Mar	19	0	164	0	728	164	1000	164	892	No Firm Outage
204	20-Mar	20	0	164	0	859	164	1000	164	1023	No Firm Outage
205	27-Mar	14	0	253	0	362	253	1000	253	615	No Firm Outage
206	27-Mar	15	0	244	0	435	244	1000	244	678	No Firm Outage
207	27-Mar	16	0	266	0	431	266	1000	266	696	No Firm Outage
208	27-Mar	17	0	255	0	983	255	1000	255	1238	No Firm Outage
209	27-Mar	18	0	243	0	690	243	1000	243	933	No Firm Outage
210	27-Mar	19	0	287	0	450	287	1000	287	737	No Firm Outage
211	27-Mar	20	0	189	0	246	189	1000	189	435	No Firm Outage
212	28-Mar	12	0	394	0	596	394	1000	394	990	No Firm Outage
213	28-Mar	13	0	379	0	647	379	1000	379	1026	No Firm Outage
214	28-Mar	14	0	381	0	463	381	1000	381	844	No Firm Outage
215	28-Mar	15	0	269	0	502	269	1000	269	771	No Firm Outage
216	28-Mar	16	0	241	0	648	241	1000	241	889	No Firm Outage
217	30-Mar	10	0	302	0	1272	302	1000	302	1574	No Firm Outage

Appendix C

	A	B	M	N	O	P	Q	R	S	T	U	V	W	X
1			**Path 15 Analysis of Southern California Non-Firm Outages**											
2	**Date**	**Hour**	**Firm Outage MWs in the North**	**Non-Firm Outage MWs in the North**	**Available Megawatts Not Generated in the North**	**Firm Outage MWs in the South**	**Non-Firm Outage MWs in the South**	**Available Megawatts Not Generated in the South**	**MWs needed from Northern California to Alleviate Southern California Firm Outages (See Note 5)**	**Northern California Available Megawatts Not Generated after subtracting out Northern California Firm Outage MWs (See Note 6)**	**Path 15 Unused Capacity (See Note 7)**	**Available MWs Which Would Have Been Sent South to Alleviate FIRM Outages (See Note 8)**	**Northern California Available MWs Not Generated which can be used to Alleviate Northern California NON-Firm Outages (See Note 9)**	**Power Available to send South to Alleviate Southern California NON-Firm Outages (See Note 10)**
182	19-Mar	10	0	57	105	0	189	296	0	105	1000	0	105	48
183	19-Mar	11	0	57	7	0	189	330	0	7	1000	0	7	0
184	19-Mar	12	248	57	10	252	189	165	87	0	1000	0	0	0
185	19-Mar	13	496	57	12	504	189	469	35	0	1000	0	0	0
186	19-Mar	14	397	57	19	403	189	528	0	0	1000	0	0	0
187	19-Mar	15	397	57	64	403	189	427	0	0	1000	0	0	0
188	19-Mar	16	199	57	17	202	189	638	0	0	1000	0	0	0
189	19-Mar	17	199	57	18	202	128	624	0	0	1000	0	0	0
190	19-Mar	18	0	57	17	0	128	602	0	17	1000	0	17	0
191	19-Mar	19	0	57	17	0	128	671	0	17	1000	0	17	0
192	19-Mar	20	0	57	19	0	128	563	0	19	1000	0	19	0
193	20-Mar	9	0	57	136	0	15	236	0	136	1000	0	136	79
194	20-Mar	10	248	57	53	252	15	337	0	0	1000	0	0	0
195	20-Mar	11	248	57	5	252	15	421	0	0	1000	0	0	0
196	20-Mar	12	149	57	7	151	15	582	0	0	1000	0	0	0
197	20-Mar	13	149	57	9	151	15	554	0	0	1000	0	0	0
198	20-Mar	14	149	57	13	151	15	454	0	0	1000	0	0	0
199	20-Mar	15	149	57	15	151	132	511	0	0	1000	0	0	0
200	20-Mar	16	0	57	34	0	132	545	0	34	1000	0	34	0
201	20-Mar	17	0	57	146	0	132	473	0	146	1000	0	146	89
202	20-Mar	18	0	57	164	0	132	544	0	164	1000	0	164	107
203	20-Mar	19	0	57	164	0	132	728	0	164	1000	0	164	107
204	20-Mar	20	0	57	164	0	132	859	0	164	1000	0	164	107
205	27-Mar	14	0	40	253	0	251	362	0	253	1000	0	253	213
206	27-Mar	15	0	40	244	0	251	435	0	244	1000	0	244	204
207	27-Mar	16	0	40	266	0	251	431	0	266	1000	0	266	226
208	27-Mar	17	0	40	255	0	251	983	0	255	1000	0	255	215
209	27-Mar	18	0	40	243	0	251	690	0	243	1000	0	243	203
210	27-Mar	19	0	40	287	0	251	450	0	287	1000	0	287	247
211	27-Mar	20	0	40	189	0	251	246	0	189	1000	0	189	149
212	28-Mar	12	0	18	394	0	117	596	0	394	1000	0	394	376
213	28-Mar	13	0	18	379	0	117	647	0	379	1000	0	379	361
214	28-Mar	14	0	18	381	0	117	463	0	381	1000	0	381	363
215	28-Mar	15	0	18	269	0	117	502	0	269	1000	0	269	251
216	28-Mar	16	0	18	241	0	117	648	0	241	1000	0	241	223
217	30-Mar	10	0	21	302	0	128	1272	0	302	1000	0	302	281

Appendix C

	A	B	Y	Z	AA	AB	AC	AE	AF	AG	AH
1			**Path 15 Analysis of Southern California Non-Firm Outages**								
2	**Date**	**Hour**	**New Path 15 Unused Capacity after subtracting out the MWs sent South to Alleviate Southern Firm Outages See Note 11)**	**Available MWs Which Could Have Been Sent South to Alleviate Non-Firm Outages (See Note 12)**	**Available MWs Which Would Have Been Sent North to Alleviate FIRM Outages (See Note 13)**	**Sum of Available MWs Not Generated which could be used to eliminate the Non-Firm Outage in the South (See Note 14)**	**Percent (%) of Southern Non-Firm Outage which is Avoidable Column AV / Column AK)**	**Non-Firm Outage?**	**100% Avoidable?**	**90%-100% Avoidable?**	**50%-89% Avoidable**
182	19-Mar	10	1000	48	0	344	182%	TRUE	TRUE	FALSE	FALSE
183	19-Mar	11	1000	0	0	330	175%	TRUE	TRUE	FALSE	FALSE
184	19-Mar	12	1000	0	0	0	0%	TRUE	FALSE	FALSE	FALSE
185	19-Mar	13	1000	0	0	0	0%	TRUE	FALSE	FALSE	FALSE
186	19-Mar	14	1000	0	125	0	0%	TRUE	FALSE	FALSE	FALSE
187	19-Mar	15	1000	0	24	0	0%	TRUE	FALSE	FALSE	FALSE
188	19-Mar	16	1000	0	182	254	134%	TRUE	TRUE	FALSE	FALSE
189	19-Mar	17	1000	0	181	241	188%	TRUE	TRUE	FALSE	FALSE
190	19-Mar	18	1000	0	0	602	471%	TRUE	TRUE	FALSE	FALSE
191	19-Mar	19	1000	0	0	671	524%	TRUE	TRUE	FALSE	FALSE
192	19-Mar	20	1000	0	0	563	440%	TRUE	TRUE	FALSE	FALSE
193	20-Mar	9	1000	79	0	315	2099%	TRUE	TRUE	FALSE	FALSE
194	20-Mar	10	1000	0	85	0	0%	TRUE	FALSE	FALSE	FALSE
195	20-Mar	11	1000	0	169	0	0%	TRUE	FALSE	FALSE	FALSE
196	20-Mar	12	1000	0	142	288	1923%	TRUE	TRUE	FALSE	FALSE
197	20-Mar	13	1000	0	140	263	1752%	TRUE	TRUE	FALSE	FALSE
198	20-Mar	14	1000	0	136	167	1110%	TRUE	TRUE	FALSE	FALSE
199	20-Mar	15	1000	0	134	226	171%	TRUE	TRUE	FALSE	FALSE
200	20-Mar	16	1000	0	0	545	413%	TRUE	TRUE	FALSE	FALSE
201	20-Mar	17	1000	89	0	562	426%	TRUE	TRUE	FALSE	FALSE
202	20-Mar	18	1000	107	0	650	493%	TRUE	TRUE	FALSE	FALSE
203	20-Mar	19	1000	107	0	835	633%	TRUE	TRUE	FALSE	FALSE
204	20-Mar	20	1000	107	0	966	732%	TRUE	TRUE	FALSE	FALSE
205	27-Mar	14	1000	213	0	575	229%	TRUE	TRUE	FALSE	FALSE
206	27-Mar	15	1000	204	0	638	254%	TRUE	TRUE	FALSE	FALSE
207	27-Mar	16	1000	226	0	656	261%	TRUE	TRUE	FALSE	FALSE
208	27-Mar	17	1000	215	0	1198	477%	TRUE	TRUE	FALSE	FALSE
209	27-Mar	18	1000	203	0	893	356%	TRUE	TRUE	FALSE	FALSE
210	27-Mar	19	1000	247	0	697	278%	TRUE	TRUE	FALSE	FALSE
211	27-Mar	20	1000	149	0	395	157%	TRUE	TRUE	FALSE	FALSE
212	28-Mar	12	1000	376	0	972	830%	TRUE	TRUE	FALSE	FALSE
213	28-Mar	13	1000	361	0	1008	861%	TRUE	TRUE	FALSE	FALSE
214	28-Mar	14	1000	363	0	826	706%	TRUE	TRUE	FALSE	FALSE
215	28-Mar	15	1000	251	0	753	644%	TRUE	TRUE	FALSE	FALSE
216	28-Mar	16	1000	223	0	871	745%	TRUE	TRUE	FALSE	FALSE
217	30-Mar	10	1000	281	0	1553	1213%	TRUE	TRUE	FALSE	FALSE

Appendix C

	A	B	C	D	E	F	G	H	I	J	K
1			**Path 15 Analysis of Southern California Firm Outages**								
2	**Date**	**Hour**	**Firm Outage MWs in the North**	**Available Megawatts Not Generated in the North**	**Firm Outage MWs in the South**	**Available Megawatts Not Generated in the South**	**Available MWs Not Generated in the North After Subtracting Firm Outage MWs in the North (See Note 1)**	**Path 15 Unused MW Capacity (See Note 2)**	**Additional Available Megawatts from the North which can be shipped over Path 15 (See Note 3)**	**Sum of Available MWs Not Generated from the North and South (See Note 4)**	**Percent (%) of Southern Firm Outage which is Avoidable (Column AD / Column Y)**
218	30-Mar	11	0	240	0	1300	240	1000	240	1540	No Firm Outage
219	30-Mar	12	0	190	0	1257	190	1000	190	1448	No Firm Outage
220	30-Mar	13	0	197	0	978	197	1000	197	1176	No Firm Outage
221	30-Mar	14	0	201	0	800	201	1000	201	1002	No Firm Outage
222	30-Mar	15	0	202	0	745	202	1000	202	946	No Firm Outage
223	31-Mar	12	0	134	0	732	134	1000	134	865	No Firm Outage
224	31-Mar	13	0	115	0	934	115	1000	115	1049	No Firm Outage
225	31-Mar	14	0	103	0	976	103	1000	103	1079	No Firm Outage
226	31-Mar	15	0	101	0	1160	101	1000	101	1261	No Firm Outage
227	2-Apr	10	0	152	0	366	152	1000	152	518	No Firm Outage
228	2-Apr	11	0	32	0	383	32	1000	32	416	No Firm Outage
229	2-Apr	12	0	31	0	362	31	1000	31	393	No Firm Outage
230	2-Apr	13	0	45	0	332	45	1000	45	377	No Firm Outage
231	2-Apr	14	0	56	0	360	56	1000	56	416	No Firm Outage
232	2-Apr	15	0	43	0	319	43	1000	43	362	No Firm Outage
233	2-Apr	16	0	35	0	458	35	1000	35	492	No Firm Outage
234	2-Apr	20	0	104	0	601	104	1000	104	705	No Firm Outage
235	2-Apr	21	0	67	0	371	67	1000	67	439	No Firm Outage
236	2-Apr	22	0	78	0	441	78	1000	78	519	No Firm Outage
237	2-Apr	23	0	208	0	964	208	1000	208	1172	No Firm Outage
238	2-Apr	24	0	170	0	1673	170	1000	170	1843	No Firm Outage

Appendix C

	A	B	M	N	O	P	Q	R	S	T	U	V	W	X
1			**Path 15 Analysis of Southern California Non-Firm Outages**											
2	**Date**	**Hour**	**Firm Outage MWs in the North**	**Non-Firm Outage MWs in the North**	**Available Megawatts Not Generated in the North**	**Firm Outage MWs in the South**	**Non-Firm Outage MWs in the South**	**Available Megawatts Not Generated in the South**	**MWs needed from Northern California to Alleviate Southern California Firm Outages (See Note 5)**	**Northern California Available Megawatts Not Generated after subtracting out Northern California Firm Outage MWs (See Note 6)**	**Path 15 Unused Capacity (See Note 7)**	**Available MWs Which Would Have Been Sent South to Alleviate FIRM Outages (See Note 8)**	**Northern California Available MWs Not Generated which can be used to Alleviate Northern California NON-Firm Outages (See Note 9)**	**Power Available to send South to Alleviate Southern California NON-Firm Outages (See Note 10)**
218	30-Mar	11	0	21	240	0	128	1300	0	240	1000	0	240	219
219	30-Mar	12	0	21	190	0	128	1257	0	190	1000	0	190	169
220	30-Mar	13	0	21	197	0	128	978	0	197	1000	0	197	176
221	30-Mar	14	0	21	201	0	128	800	0	201	1000	0	201	180
222	30-Mar	15	0	21	202	0	128	745	0	202	1000	0	202	181
223	31-Mar	12	0	12	134	0	238	732	0	134	1000	0	134	122
224	31-Mar	13	0	12	115	0	238	934	0	115	1000	0	115	103
225	31-Mar	14	0	12	103	0	238	976	0	103	1000	0	103	91
226	31-Mar	15	0	12	101	0	238	1160	0	101	1000	0	101	89
227	2-Apr	10	0	18	152	0	138	366	0	152	1000	0	152	134
228	2-Apr	11	0	18	32	0	138	383	0	32	1000	0	32	14
229	2-Apr	12	0	18	31	0	138	362	0	31	1000	0	31	13
230	2-Apr	13	0	18	45	0	138	332	0	45	1000	0	45	27
231	2-Apr	14	0	18	56	0	138	360	0	56	1000	0	56	38
232	2-Apr	15	0	18	43	0	138	319	0	43	1000	0	43	25
233	2-Apr	16	0	18	35	0	138	458	0	35	1000	0	35	17
234	2-Apr	20	0	24	104	0	134	601	0	104	1000	0	104	80
235	2-Apr	21	0	24	67	0	134	371	0	67	1000	0	67	43
236	2-Apr	22	0	24	78	0	134	441	0	78	1000	0	78	54
237	2-Apr	23	0	24	208	0	134	964	0	208	1000	0	208	184
238	2-Apr	24	0	24	170	0	0	1673	0	170	1000	0	170	146

Appendix C

	A	B	Y	Z	AA	AB	AC	AE	AF	AG	AH
1			**Path 15 Analysis of Southern California Non-Firm Outages**								
2	**Date**	**Hour**	**New Path 15 Unused Capacity after subtracting out the MWs sent South to Alleviate Southern Firm Outages See Note 11)**	**Available MWs Which Could Have Been Sent South to Alleviate Non-Firm Outages (See Note 12)**	**Available MWs Which Would Have Been Sent North to Alleviate FIRM Outages (See Note 13)**	**Sum of Available MWs Not Generated which could be used to eliminate the Non-Firm Outage in the South (See Note 14)**	**Percent (%) of Southern Non-Firm Outage which is Avoidable Column AV / Column AK)**	**Non-Firm Outage?**	**100% Avoidable?**	**90%-100% Avoidable?**	**50%-89% Avoidable**
218	30-Mar	11	1000	219	0	1519	1187%	TRUE	TRUE	FALSE	FALSE
219	30-Mar	12	1000	169	0	1427	1115%	TRUE	TRUE	FALSE	FALSE
220	30-Mar	13	1000	176	0	1155	902%	TRUE	TRUE	FALSE	FALSE
221	30-Mar	14	1000	180	0	981	766%	TRUE	TRUE	FALSE	FALSE
222	30-Mar	15	1000	181	0	925	723%	TRUE	TRUE	FALSE	FALSE
223	31-Mar	12	1000	122	0	853	358%	TRUE	TRUE	FALSE	FALSE
224	31-Mar	13	1000	103	0	1037	436%	TRUE	TRUE	FALSE	FALSE
225	31-Mar	14	1000	91	0	1067	448%	TRUE	TRUE	FALSE	FALSE
226	31-Mar	15	1000	89	0	1249	525%	TRUE	TRUE	FALSE	FALSE
227	2-Apr	10	1000	134	0	500	362%	TRUE	TRUE	FALSE	FALSE
228	2-Apr	11	1000	14	0	398	288%	TRUE	TRUE	FALSE	FALSE
229	2-Apr	12	1000	13	0	375	272%	TRUE	TRUE	FALSE	FALSE
230	2-Apr	13	1000	27	0	359	260%	TRUE	TRUE	FALSE	FALSE
231	2-Apr	14	1000	38	0	398	288%	TRUE	TRUE	FALSE	FALSE
232	2-Apr	15	1000	25	0	344	249%	TRUE	TRUE	FALSE	FALSE
233	2-Apr	16	1000	17	0	474	344%	TRUE	TRUE	FALSE	FALSE
234	2-Apr	20	1000	80	0	681	508%	TRUE	TRUE	FALSE	FALSE
235	2-Apr	21	1000	43	0	415	310%	TRUE	TRUE	FALSE	FALSE
236	2-Apr	22	1000	54	0	495	369%	TRUE	TRUE	FALSE	FALSE
237	2-Apr	23	1000	184	0	1148	856%	TRUE	TRUE	FALSE	FALSE
238	2-Apr	24	1000	146	0	1819	No Non-Firm Outag	No Non-Firm Outa	No Non-Firm Outa	No Non-Firm Outage	No Non-Firm Outage

Appendix C

	A	B	C	D	E	F	G	H	I	J	K
1			**Path 15 Analysis of Southern California Firm Outages**								
2	**Date**	**Hour**	**Firm Outage MWs in the North**	**Available Megawatts Not Generated in the North**	**Firm Outage MWs in the South**	**Available Megawatts Not Generated in the South**	**Available MWs Not Generated in the North After Subtracting Firm Outage MWs in the North (See Note 1)**	**Path 15 Unused MW Capacity (See Note 2)**	**Additional Available Megawatts from the North which can be shipped over Path 15 (See Note 3)**	**Sum of Available MWs Not Generated from the North and South (See Note 4)**	**Percent (%) of Southern Firm Outage which is Avoidable (Column AD / Column Y)**
239	3-Apr	1	0	176	0	2705	176	1000	176	2882	No Firm Outage
240	3-Apr	2	0	194	0	3197	194	1000	194	3391	No Firm Outage
241	3-Apr	8	0	83	0	793	83	1000	83	876	No Firm Outage
242	3-Apr	9	0	8	0	523	8	1000	8	530	No Firm Outage
243	3-Apr	10	0	76	0	336	76	1000	76	412	No Firm Outage
244	7-May	11	0	71	0	878	71	1000	71	949	No Firm Outage
245	7-May	12	0	70	0	813	70	1000	70	883	No Firm Outage
246	7-May	13	0	74	0	745	74	1000	74	819	No Firm Outage
247	7-May	14	0	79	0	396	79	1000	79	474	No Firm Outage
248	7-May	15	0	79	0	408	79	1000	79	487	No Firm Outage
249	7-May	16	0	83	0	585	83	1000	83	668	No Firm Outage
250	7-May	17	149	93	151	394	0	1000	0	394	261%
251	7-May	18	149	114	151	750	0	1000	0	750	497%
252	8-May	13	0	77	0	794	77	1000	77	871	No Firm Outage
253	8-May	14	0	87	0	394	87	1000	87	480	No Firm Outage
254	8-May	15	0	88	0	578	88	1000	88	667	No Firm Outage
255	8-May	16	198	89	202	696	0	1000	0	696	345%
256	8-May	17	198	96	202	741	0	1000	0	741	367%
257	8-May	18	0	122	0	737	122	1000	122	858	No Firm Outage
258	8-May	19	0	141	0	1017	141	1000	141	1158	No Firm Outage
259	9-May	13	0	40	0	612	40	1000	40	652	No Firm Outage
260	9-May	14	0	22	0	509	22	1000	22	531	No Firm Outage
261	9-May	15	0	22	0	540	22	1000	22	562	No Firm Outage
262	9-May	16	0	50	0	575	50	1000	50	626	No Firm Outage
263	9-May	17	0	62	0	616	62	1000	62	678	No Firm Outage
264	10-May	14	0	50	0	627	50	1000	50	677	No Firm Outage
265	10-May	15	0	49	0	978	49	1000	49	1027	No Firm Outage
266	10-May	16	0	48	0	1129	48	1000	48	1177	No Firm Outage
267	31-May	14	0	72	0	632	72	1000	72	703	No Firm Outage
268	31-May	15	0	67	0	714	67	1000	67	781	No Firm Outage
269	31-May	16	0	54	0	556	54	1000	54	610	No Firm Outage
270	31-May	17	0	53	0	659	53	1000	53	712	No Firm Outage
271	31-May	18	0	53	0	1128	53	1000	53	1181	No Firm Outage
272											
273											
274											

Appendix C

	A	B	M	N	O	P	Q	R	S	T	U	V	W	X
1			**Path 15 Analysis of Southern California Non-Firm Outages**											
2	**Date**	**Hour**	**Firm Outage MWs in the North**	**Non-Firm Outage MWs in the North**	**Available Megawatts Not Generated in the North**	**Firm Outage MWs in the South**	**Non-Firm Outage MWs in the South**	**Available Megawatts Not Generated in the South**	**MWs needed from Northern California to Alleviate Southern California Firm Outages (See Note 5)**	**Northern California Available Megawatts Not Generated after subtracting out Northern California Firm Outage MWs (See Note 6)**	**Path 15 Unused Capacity (See Note 7)**	**Available MWs Which Would Have Been Sent South to Alleviate FIRM Outages (See Note 8)**	**Northern California Available MWs Not Generated which can be used to Alleviate Northern California NON-Firm Outages (See Note 9)**	**Power Available to send South to Alleviate Southern California NON-Firm Outages (See Note 10)**
239	3-Apr	1	0	10	176	0	0	2705	0	176	1000	0	176	166
240	3-Apr	2	0	10	194	0	0	3197	0	194	1000	0	194	184
241	3-Apr	8	0	17	83	0	86	793	0	83	1000	0	83	66
242	3-Apr	9	0	17	8	0	86	523	0	8	1000	0	8	0
243	3-Apr	10	0	17	76	0	86	336	0	76	1000	0	76	59
244	7-May	11	0	60	71	0	803	878	0	71	1000	0	71	11
245	7-May	12	0	60	70	0	803	813	0	70	1000	0	70	10
246	7-May	13	0	60	74	0	803	745	0	74	1000	0	74	14
247	7-May	14	0	60	79	0	803	396	0	79	1000	0	79	19
248	7-May	15	0	60	79	0	803	408	0	79	1000	0	79	19
249	7-May	16	0	60	83	0	803	585	0	83	1000	0	83	23
250	7-May	17	149	60	93	151	803	394	0	0	1000	0	0	0
251	7-May	18	149	0	114	151	0	750	0	0	1000	0	0	0
252	8-May	13	0	60	77	0	478	794	0	77	1000	0	77	17
253	8-May	14	0	60	87	0	878	394	0	87	1000	0	87	27
254	8-May	15	0	60	88	0	878	578	0	88	1000	0	88	28
255	8-May	16	198	60	89	202	878	696	0	0	1000	0	0	0
256	8-May	17	198	60	96	202	878	741	0	0	1000	0	0	0
257	8-May	18	0	60	122	0	878	737	0	122	1000	0	122	62
258	8-May	19	0	60	141	0	878	1017	0	141	1000	0	141	81
259	9-May	13	0	60	40	0	803	612	0	40	1000	0	40	0
260	9-May	14	0	60	22	0	803	509	0	22	1000	0	22	0
261	9-May	15	0	60	22	0	803	540	0	22	1000	0	22	0
262	9-May	16	0	60	50	0	803	575	0	50	1000	0	50	0
263	9-May	17	0	60	62	0	803	616	0	62	1000	0	62	2
264	10-May	14	0	60	50	0	853	627	0	50	1000	0	50	0
265	10-May	15	0	60	49	0	853	978	0	49	1000	0	49	0
266	10-May	16	0	60	48	0	853	1129	0	48	1000	0	48	0
267	31-May	14	0	60	72	0	723	632	0	72	1000	0	72	12
268	31-May	15	0	60	67	0	723	714	0	67	1000	0	67	7
269	31-May	16	0	60	54	0	723	556	0	54	1000	0	54	0
270	31-May	17	0	60	53	0	723	659	0	53	1000	0	53	0
271	31-May	18	0	60	53	0	723	1128	0	53	1000	0	53	0
272														
273														
274														

Appendix C

	A	B	Y	Z	AA	AB	AC	AE	AF	AG	AH
1			**Path 15 Analysis of Southern California Non-Firm Outages**								
2	**Date**	**Hour**	**New Path 15 Unused Capacity after subtracting out the MWs sent South to Alleviate Southern Firm Outages See Note 11)**	**Available MWs Which Could Have Been Sent South to Alleviate Non-Firm Outages (See Note 12)**	**Available MWs Which Would Have Been Sent North to Alleviate FIRM Outages (See Note 13)**	**Sum of Available MWs Not Generated which could be used to eliminate the Non-Firm Outage in the South (See Note 14)**	**Percent (%) of Southern Non-Firm Outage which is Avoidable Column AV / Column AK)**	**Non-Firm Outage?**	**100% Avoidable?**	**90%-100% Avoidable?**	**50%-89% Avoidable**
239	3-Apr	1	1000	166	0	2872	No Non-Firm Outag	No Non-Firm Outa	No Non-Firm Outag	No Non-Firm Outage	No Non-Firm Outage
240	3-Apr	2	1000	184	0	3381	No Non-Firm Outag	No Non-Firm Outa	No Non-Firm Outag	No Non-Firm Outage	No Non-Firm Outage
241	3-Apr	8	1000	66	0	859	999%	TRUE	TRUE	FALSE	FALSE
242	3-Apr	9	1000	0	0	523	608%	TRUE	TRUE	FALSE	FALSE
243	3-Apr	10	1000	59	0	395	459%	TRUE	TRUE	FALSE	FALSE
244	7-May	11	1000	11	0	889	111%	TRUE	TRUE	FALSE	FALSE
245	7-May	12	1000	10	0	823	103%	TRUE	TRUE	FALSE	FALSE
246	7-May	13	1000	14	0	759	95%	TRUE	FALSE	TRUE	FALSE
247	7-May	14	1000	19	0	414	52%	TRUE	FALSE	FALSE	TRUE
248	7-May	15	1000	19	0	427	53%	TRUE	FALSE	FALSE	TRUE
249	7-May	16	1000	23	0	608	76%	TRUE	FALSE	FALSE	TRUE
250	7-May	17	1000	0	56	188	23%	TRUE	FALSE	FALSE	FALSE
251	7-May	18	1000	0	35	564	No Non-Firm Outag	No Non-Firm Outa	No Non-Firm Outag	No Non-Firm Outage	No Non-Firm Outage
252	8-May	13	1000	17	0	811	170%	TRUE	TRUE	FALSE	FALSE
253	8-May	14	1000	27	0	420	48%	TRUE	FALSE	FALSE	FALSE
254	8-May	15	1000	28	0	607	69%	TRUE	FALSE	FALSE	TRUE
255	8-May	16	1000	0	110	385	44%	TRUE	FALSE	FALSE	FALSE
256	8-May	17	1000	0	103	436	50%	TRUE	FALSE	FALSE	FALSE
257	8-May	18	1000	62	0	798	91%	TRUE	FALSE	TRUE	FALSE
258	8-May	19	1000	81	0	1098	125%	TRUE	TRUE	FALSE	FALSE
259	9-May	13	1000	0	0	612	76%	TRUE	FALSE	FALSE	TRUE
260	9-May	14	1000	0	0	509	63%	TRUE	FALSE	FALSE	TRUE
261	9-May	15	1000	0	0	540	67%	TRUE	FALSE	FALSE	TRUE
262	9-May	16	1000	0	0	575	72%	TRUE	FALSE	FALSE	TRUE
263	9-May	17	1000	2	0	618	77%	TRUE	FALSE	FALSE	TRUE
264	10-May	14	1000	0	0	627	74%	TRUE	FALSE	FALSE	TRUE
265	10-May	15	1000	0	0	978	115%	TRUE	TRUE	FALSE	FALSE
266	10-May	16	1000	0	0	1129	132%	TRUE	TRUE	FALSE	FALSE
267	31-May	14	1000	12	0	643	89%	TRUE	FALSE	FALSE	TRUE
268	31-May	15	1000	7	0	721	100%	TRUE	FALSE	TRUE	FALSE
269	31-May	16	1000	0	0	556	77%	TRUE	FALSE	FALSE	TRUE
270	31-May	17	1000	0	0	659	91%	TRUE	FALSE	TRUE	FALSE
271	31-May	18	1000	0	0	1128	156%	TRUE	TRUE	FALSE	FALSE
272											
273							**Total # of TRUE:**	**219**	**161**	**10**	**33**
274											

Appendix C

Path 15 Analysis of Southern California Outages

Notes:

1. Available MWs Not Generated in the North After Subtracting Firm Outage MWs in the North (Column X - Column W)

2. Path 15 Unused Capacity = Path 15 N-S Rating (Available RAS) MINUS 200 MW Safety Factor
NOTE: Actual flow on Path 15 on these days is from South to North in the thousands of MWs. Just to get back to flow = 0 MW on Path 15 would require thousands of MWs to be shipped from North to South. The amount of Available MWs Not Generated in the North is a maximum of 394MW on March 28th. Therefore, the Path 15 rating is not an issue for North to South flows.
For calculation purposes we will conservatively say that Path 15 Unused Capacity from North to South is 1000 MW.

3. Additional Available Megawatts from the North which can be shipped over Path 15 to Alleviate the Firm Outage in the South (Minimum of Column AA or Column AB)

4. Sum of Available MWs Not Generated from the North and South which could be used to Alleviate the Firm Outage in the South (Column Z + Column AC)

5. MWs needed from Northern California to Alleviate Southern California Firm Outages: Firm Outage MWs in the South (Column AJ) MINUS Available Megawatts Not Generated in the South (Column AL)

6. Northern California Available Megawatts Not Generated after subtracting out Northern California Firm Outage MWs (Column AI - Column AG)

7. Path 15 Unused Capacity = Path 15 N-S Rating (Available RAS) MINUS 200 MW Safety Factor
NOTE: Actual flow on Path 15 on these days is from South to North in the thousands of MWs. Just to get back to flow = 0 MW on Path 15 would require thousands of MWs to be shipped from North to South. The amount of Available MWs Not Generated in the North is a maximum of 394MW on March 28th. Therefore the Path 15 rating is not an issue for North to South flows.
For calculation purposes we will conservatively say that Path 15 Unused Capacity from North to South is 1000 MW.

8. Available MWs Which Would Have Been Sent South to Alleviate FIRM Outages: This number would be the minimum of three numbers:
1) Path 15 capacity, or
2) Amount of Northern California Available MWs Not Generated after subtracting out No. Calif. Firm Outages, or
3) MWs needed to Avoid Southern California Firm Outages after subtracting out Southern California Available MWs Not Generated

9. Northern California Available MWs Not Generated which can be used to Alleviate Northern California NON-Firm Outages:
Northern California Available MWs Not Generated after subtracting out Northern California Firm Outage MWs and subtracting the MWs sent South to Alleviate Southern California Firm Outages. (Column AI - Column AG - Column AP)

Appendix C

10. Power Available to send South to Alleviate Southern California NON-Firm Outages:
Northern California Available MWs Not Generated which can be used to Alleviate Southern California Non-Firm Outages after subtracting out Non-Firm Northern California Outages. (Column AQ - Column AK)

11. New Path 15 Unused Capacity after subtracting out the MWs sent South to Alleviate Southern Firm Outages:
1000 MW MINUS MWs sent South to Alleviate Firm Outages in the South (Column AO - Column AP)

12. Available MWs Which Could Have Been Sent South to Alleviate Non-Firm Outages - This number would be the minimum of two numbers:
1) Power Available to send South to Alleviate Southern California Non-Firm Outages
2) New Path 15 Unused Capacity after subtracting out the MWs sent South to Alleviate Southern Firm Outages.
(Minimum of Columns AR or AS)

13. Available MWs Which Would Have Been Sent North to Alleviate Firm Outages - This number would be the minimum of three numbers:
1) Path 15 capacity, or
2) Amount of Southern California Available MWs Not Generated after subtracting out So. Calif. Firm Outages, or
3) MWs needed to Avoid Northern California Outages after subtracting out Northern California Available MWs Not Generated
(Column AP from the No.Calif. Path 15 Analysis Spreadsheet)

14. Sum of Available MWs Not Generated from the South MINUS Southern Firm Outage MWs MINUS Southern Cal. MWs which would have been sent North to Alleviate No. Calif. Firm Outages, PLUS Available MWs sent from the North which could be used to eliminate the Non-Firm Outage in the South (Column AL - Column AJ - Column AU + Column AT)

15. Signifies Hours of Firm Outages (Blackouts)