

GI-2004-1 Outage Comparison Table

Overloaded Element										Case					Contingency						
#	From Bus	-kv-	ar	#	-----TO bus-	-kv-	ar	ID	rating	2007 Base Case	Case FMORGA, BRUSHWD @300	Case FMORG1b, BRUSHWD @300, FMWIND @ 150	Case FMORGOA, BRUSHWD @300, FMWIND @ 150; 230 kV Conversion	freq.	#	From Bus	-kv-	#	-----TO bus-	-kv-	ID
---	---name---	---	---	---	---	---	---	---	[MVA]	pu	pu	pu	pu		---	---	---	---	---	---	---
73207	"WAANIBE "	115	73	73209	"WANIBETP"	115	73	"1 "	67	331%	331%	331%	331%	3	73034	BURL PSC	115	73485	BURL KC	115	"1 "
73184	"SMOKYHLW"	115	73	73209	"WANIBETP"	115	73	"1 "	67	162%	162%	162%	162%	3	73034	BURL PSC	115	73485	BURL KC	115	"1 "
70005	"BRUSHCPP"	115	70	73013	"B.CK PS "	115	70	"1 "	162	148%	148%	148%	148%	1	70005	BRUSHCPP	115	73013	B.CK PS	115	"2 "
73008	"ARCHER "	115	73	73043	"CHEYENNE"	115	73	"1 "	80	141%	138%	139%	140%	3	73008	ARCHER	115	73480	CROWCRK	115	"1 "
73211	"WELD LM"	115	73	73212	"WELD LM"	230	73	"1 "	150	141%	138%	137%	138%	2	70471	WELD PS	230	73212	WELD LM	230	"1 "
70311	"PAWNEE "	230	70	70310	"PAWNEE "	22	70	"2 "	364	139%	138%	139%	138%	1	70311	PAWNEE	230	70310	PAWNEE	22	"1 "
70311	"PAWNEE "	230	70	70310	"PAWNEE "	22	70	"1 "	364	139%	138%	139%	138%	1	70311	PAWNEE	230	70310	PAWNEE	22	"2 "
70005	"BRUSHCPP"	115	70	73013	"B.CK PS "	115	70	"2 "	187	129%	129%	129%	129%	1	70005	BRUSHCPP	115	73013	B.CK PS	115	1
70264	"LITTLET2"	115	70	70463	"WATERTON"	115	70	"1 "	135	129%	129%	129%	129%	1	70037	ARAPAHOB	115	70165	ENGLE3TP	115	"1 "
70382	"SEMPER "	115	70	70065	"BROMFLD1"	115	70	"1 "	134.8	128%	127%	127%	127%	1	70108	CHEROKEE	115	70174	FEDERHT1	115	"1 "
70469	"WELD "	46	70	70470	"WELD PS"	115	70	"2 "	42	127%	127%	127%	127%	1	70469	WELD	46	70470	WELD PS	115	"1 "
70517	"PARKERPS"	115	70	70523	"SULPHUR "	115	70	"1 "	180	116%	125%	125%	125%	1	70521	PEAKVIEW	115	70395	SMOKYHIL	115	"1 "
79011	"CAHONE "	115	73	79052	"NUCLA "	115	73	"1 "	77	122%	123%	122%	123%	765	70036	ARAPAHOA	115	70384	SHERIDAN	115	"1 "
70463	"WATERTON"	115	70	70464	"WATERTON"	230	70	"2 "	100	109%	120%	122%	123%	5	70037	ARAPAHOB	115	70165	ENGLE3TP	115	"1 "
73088	"HOYT "	115	73	73103	"L.MEADOW"	115	73	"1 "	60	122%	115%	116%	116%	2	73020	BEAVERCK	115	73031	BRUSHTAP	115	"1 "
70469	"WELD "	46	70	70470	"WELD PS"	115	70	"1 "	46.7	115%	115%	115%	115%	1	70469	WELD	46	70470	WELD PS	115	"2 "
73179	"SIDNEY "	115	73	73180	"SIDNEY "	230	73	"1 "	167	114%	114%	114%	114%	1	73143	N.YUMA	230	73180	SIDNEY	230	"1 "
73103	"L.MEADOW"	115	73	73213	"WIGGINS "	115	73	"1 "	59.6	118%	111%	112%	112%	1	73020	BEAVERCK	115	73031	BRUSHTAP	115	"1 "
70247	"LAJUNTAT"	115	70	70248	"LAJUNTAT"	69	70	"1 "	25	109%	109%	109%	109%	764	65235	BUFFALO	230	65293	CARRDRAW	230	"1 "
70192	"FTLUPTON"	230	70	70529	"JLGREEN "	230	70	"1 "	495	<100%	109%	110%	<100%	3	70192	FTLUPTON	230	70605	HENRYLAK	230	"1 "
70580	"PLNENDNG"	18	70	70570	"PLNENDSS"	230	70	"2 "	100	<100%	109%	109%	107%	1	70580	PLNENDNG	18	70570	PLNENDSS	230	"1 "
70580	"PLNENDNG"	18	70	70570	"PLNENDSS"	230	70	"1 "	100	<100%	109%	109%	107%	1	70580	PLNENDNG	18	70570	PLNENDSS	230	"2 "
73043	"CHEYENNE"	115	73	73480	"CROWCRK "	115	73	"1 "	80	111%	108%	109%	109%	1	73008	ARCHER	115	73043	CHEYENNE	115	"1 "
70529	"JLGREEN "	230	70	70461	"WASHINGT"	230	70	"1 "	495	<100%	107%	109%	<100%	3	70192	FTLUPTON	230	70605	HENRYLAK	230	"1 "

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Overloaded Element		Case										Contingency									
From Bus				TO bus				rating	2007 Base Case	Case FMORGA, BRUSHWD @300	Case FMORG1b, BRUSHWD @300 , FMWIND @ 150	Case FMORGA, BRUSHWD @300 , FMWIND @ 150; 230 kV Conversion	From Bus			TO bus					
#	name	-kv-	ar	#	name	-kv-	ar	ID	[MVA]	pu	pu	pu	pu	freq.	#	name	-kv-	#	name	-kv-	ID
70191	"FTLUPTON"	115	70	70192	"FTLUPTON"	230	70	"1"	280	<100%	105%	106%	<100%	6	70192	FTLUPTON	230	70529	JLGREEN	230	"1"
73282	"WYODAK "	69	73	73342	"NSS2 "	69	73	"1"	107	105%	105%	105%	105%	1	73259	NSS1	69	73342	NSS2	69	"1"
73259	"NSS1 "	69	73	73342	"NSS2 "	69	73	"1"	107	105%	105%	105%	105%	1	73282	WYODAK	69	73342	NSS2	69	"1"
70283	"MEADOWHL"	230	70	70396	"SMOKYHIL"	230	70	"1"	428	<100%	104%	<100%	<100%	1	70067	BUCKLEY1	230	70396	SMOKYHIL	230	"1"
70192	"FTLUPTON"	230	70	70605	"HENRYLAK"	230	70	"1"	435	<100%	104%	105%	<100%	2	70192	FTLUPTON	230	70529	JLGREEN	230	"1"
73013	"B.CK PS "	115	70	73014	"B.CK PS "	230	70	"1"	224	104%	104%	104%	104%	1	73013	B.CK PS	115	73020	BEAVERCK	115	"1"
73008	"ARCHER "	115	73	73183	"SKYLINE "	115	73	"1"	80	104%	104%	104%	104%	1	73077	HAPPYJCK	115	73348	CORLETT	115	"1"
73009	"ARCHER "	230	73	73190	"STEGALL "	230	73	"1"	442	108%	103%	102%	102%	1	73012	AULT	345	73108	LAR.RIVR	345	"1"
70037	"ARAPAHOB"	115	70	70035	"ARAP4 "	14	70	"1"	120	101%	101%	101%	101%	41	70023	ALLISON	115	70400	SODALAKE	115	"1"
73166	"REDWILLW"	115	73	73208	"WAGES "	115	73	"1"	55	102%	101%	101%	101%	1	73175	SANDHILL	115	73223	WRAY	115	"1"
79014	"CRAIG "	345	73	79017	"CRAIG 3 "	22	73	"1"	420	<100%	100%	<100%	<100%	1	73108	LAR.RIVR	345	73130	MBPP-2	24	"1"
73023	"BIJOUTAP"	115	73	73379	"FMWEST "	115	73	"1"	80	114%	<100%	<100%	<100%	4	73012	AULT	345	73108	LAR.RIVR	345	"1"
73020	"BEAVERCK"	115	73	73464	"ADENA "	115	73	"1"	109	104%	<100%	<100%	<100%	1	73020	BEAVERCK	115	73031	BRUSHTAP	115	"1"
70192	"FTLUPTON"	230	70	70311	"PAWNEE "	230	70	"1"	413.5	102%	<100%	<100%	<100%	3	70311	PAWNEE	230	70343	QUINCY	230	"1"
73088	"HOYT "	115	73	73464	"ADENA "	115	73	"1"	109	102%	<100%	<100%	<100%	1	73020	BEAVERCK	115	73031	BRUSHTAP	115	"1"
70474	"WINDSOR "	230	70	73011	"AULT "	230	73	"1"	494.8	101%	<100%	<100%	<100%	1	70471	WELD PS	230	73212	WELD LM	230	"1"
73044	"COBBLKTP"	115	73	73201	"TIMNTHTP"	115	73	"1"	85.1	100%	<100%	<100%	<100%	1	73012	AULT	345	73108	LAR.RIVR	345	"1"
73078	"HARMONY "	230	73	73199	"TIMBERLN"	230	73	"1"	472.1	100%	<100%	<100%	<100%	1	70471	WELD PS	230	73212	WELD LM	230	"1"
73241	"BENFRNCH"	69	73	73242	"BIG BEN "	69	73	"1"	42	100%	<100%	<100%	<100%	1	73252	WESTHILL	69	73087	WESTHILL	230	"1"
70605	"HENRYLAK"	230	70	70362	"RIVERDAL"	230	70	"1"	435	<100%	<100%	100%	<100%	1	70192	FTLUPTON	230	70529	JLGREEN	230	"1"

Color Code

N-0 Violation

GI-2004-1 Outage Comparison Table

Overloaded Element		Case										Contingency									
---	From Bus	----	---	---	-----TO bus-	----	---	-	rating	pu	pu	pu	pu	freq.	---	From Bus	----	---	-----TO bus-	----	-
#	---name---	-kv-	ar	#	---name---	-kv-	ar	ID	[MVA]	load	load	load	load		#	---name---	-kv-	#	---name---	-kv-	ID
	Base case N-1 Violation																				
	WAPA																				
	TSGT																				
	PSCO																				
	IREA																				
	PRPA																				