

# Tables

## Table 1

### Transmission Alternative 1

EQUIPMENT	RATING AMPS	BENCH MARK OUTAGE CASE 2005		SCENARIO I 5000MW (4342)		Alternative 1		SCENARIO II 5500MW		OUTAGE	MW	DELTA
		% OF RATING	FLOW AMPS	% OF RATING	FLOW AMPS	% OF RATING	FLOW AMPS	% OF RATING	FLOW AMPS			
KYRENE – JOJOBA 500kV	2647	34%	902	110%	2918	89%	2354	97%	2558	PALOVRDE-ESTRELLA 1 500kV		
KYRENE – JOJOBA 500kV	2647	40%	1044	106%	2805	77%	2040	84%	2215	CORONADO-SILVER KG 1 500kV		
KYRENE – JOJOBA 500kV	2647	34%	896	97%	2554	92%	2443	100%	2647	BROWNING-SILVERKG 1 500kV	5500	1158

## Table 2

### **Transmission Alternative 1: Sensitivity\_1: Added 230kV System to Southeast Valley (Browning/SilverKing/Hayden)**

EQUIPMENT	RATING AMPS	% OF RATING	FLOW AMPS	% OF RATING	FLOW AMPS	% OF RATING	FLOW AMPS	SCENARIO II 5685MW WITH 230KV ALTS		OUTAGE	MW	DELTA
								% OF RATING	FLOW AMPS			
KYRENE – JOJOBA 500kV	2647							100%	2640	PALOVRDE-ESTRELLA 1 500kV	5685	1343
KYRENE – JOJOBA 500kV	2647							98%	2590	BROWNING-SILVERKG 1 500kV		

### Table 3

#### Transmission Alternative 2

EQUIPMENT	RATING AMPS	BENCH MARK OUTAGE CASE 2005		SCENARIO I 5000MW (4342)		Alternative 2		SCENARIO II 5500MW		OUTAGE	MW	DELTA
		% OF RATING	FLOW AMPS	% OF RATING	FLOW AMPS	% OF RATING	FLOW AMPS	% OF RATING	FLOW AMPS			
KYRENE – JOJOBA 500kV	2647	34%	902	110%	2918	93%	2462	101%	2677	PALOVRDE-ESTRELLA 1 500kV		
KYRENE – JOJOBA 500kV	2647	40%	1044	106%	2805	81%	2150	88%	2340	CORONADO-SILVER KG 1 500kV		
KYRENE – JOJOBA 500kV	2647	34%	896	97%	2554	94%	2494	102%	2702	BROWNING-SILVERKG 1 500kV	5375	1033

### Table 4

#### Transmission Alternative 4

EQUIPMENT	RATING AMPS	BENCH MARK OUTAGE CASE 2005		SCENARIO I 5000MW (4342)		Alternative 4		SCENARIO II 5500MW		OUTAGE	MW	DELTA
		% OF RATING	FLOW AMPS	% OF RATING	FLOW AMPS	% OF RATING	FLOW AMPS	% OF RATING	FLOW AMPS			
KYRENE – JOJOBA 500kV	2647	34%	902	110%	2918	N/A	N/A	N/A	N/A	PALOVRDE-ESTRELLA 1 500kV		
KYRENE – JOJOBA 500kV	2647	40%	1044	106%	2805	86%	2343	96%	2550	CORONADO-SILVER KG 1 500kV		
KYRENE – JOJOBA 500kV	2647	34%	896	97%	2554	99%	2611	107%	2826	BROWNING-SILVERKG 1 500kV	5000	638

**Table 5**

**Transmission Alternative 5**

EQUIPMENT	RATING AMPS	BENCH MARK OUTAGE CASE 2005		SCENARIO I 5000MW (4342)		Alternative 5		SCENARIO II 5500MW		OUTAGE	MW	DELTA
		% OF RATING	FLOW AMPS	% OF RATING	FLOW AMPS	% OF RATING	FLOW AMPS	% OF RATING	FLOW AMPS			
KYRENE – JOJOBA 500kV	2647	34%	902	110%	2918	89%	2353	96%	2548	PALOVRDE-ESTRELLA 1 500kV		
KYRENE – JOJOBA 500kV	2647	40%	1044	106%	2805	78%	2068	84%	2230	CORONADO-SILVER KG 1 500kV		
KYRENE – JOJOBA 500kV	2647	34%	896	97%	2554	93%	2456	99%	2635	BROWNING-SILVERKG 1 500kV	5500	1158

**Table 6**

**Transmission Alternative 5: Sensitivity 1: Added 230kV System to Southeast Valley (Browning/SilverKing/Hayden)**

EQUIPMENT	RATING AMPS	% OF RATING	FLOW AMPS	% OF RATING	FLOW AMPS	Alternative 5		SCENARIO II 6100MW WITH 230KV ALTS		OUTAGE	MW	DELTA
						% OF RATING	FLOW AMPS	% OF RATING	FLOW AMPS			
KYRENE – JOJOBA 500kV	2647							100%	2640	PALOVRDE-ESTRELLA 1 500kV	6100	1758
KYRENE – JOJOBA 500kV	2647							99%	2630	BROWNING-QUEENVLY 1 500kV		

**Table 7**

**Transmission Alternative 5: Sensitivity 2: Added 230kV System to Southeast Valley (Browning/SilverKing/Hayden)**  
**With 2000mw of Generation in the Southeast Valley (Hayden).**

EQUIPMENT	RATING AMPS	% OF RATING	FLOW AMPS	% OF RATING	FLOW AMPS	Alternative 5 2000 MW Generation in Southeast Valley		SCENARIO III 6100MW WITH 230KV ALTS		OUTAGE	MW	DELTA
						% OF RATING	FLOW AMPS	% OF RATING	FLOW AMPS			
KYRENE – JOJOBA 500kV	2647							88%	2330	PALOVRDE-ESTRELLA 1 500kV	6100	1758
39KYRENE – JOJOBA 500kV	2647							91%	2397	BROWNING-SILVERKG 1 500kV		

**Table 8**

**Transmission Alternative 5: Sensitivity 2: Added 230kV System to Southeast Valley (Browning/SilverKing/Hayden)**  
**With 2000mw of Generation in the Southeast Valley (Hayden).**

EQUIPMENT	RATING AMPS	% OF RATING	FLOW AMPS	% OF RATING	FLOW AMPS	Alternative 5 2000 MW Generation in Southeast Valley		SCENARIO IV 7500MW WITH 230KV ALTS		OUTAGE	MW	DELTA
						% OF RATING	FLOW AMPS	% OF RATING	FLOW AMPS			
KYRENE – JOJOBA 500kV	2647							100%	2657	PALOVRDE-ESTRELLA 1 500kV	7500	3158
KYRENE – JOJOBA 500kV	2647							101%	2681	BROWNING-SILVERKG 1 500kV		

### Table 9

**Transmission Alternative 6**

		BENCH MARK OUTAGE CASE 2005		SCENARIO I 3155MW		Alternative 6		SCENARIO II 3655MW				
EQUIPMENT	RATING AMPS	% OF RATING	FLOW AMPS	% OF RATING	FLOW AMPS	% OF RATING	FLOW AMPS	% OF RATING	FLOW AMPS	OUTAGE	MW	DELTA
SPRINGR – VAIL2 345kV	1351	82%	1114	100 %	1351	89%	1206	99%	1336	SPRINGR-GREENLEE 345kV	3655	500

### Table 10

**Transmission Alternative 7**

		BENCH MARK OUTAGE CASE 2005		SCENARIO I 3155MW		Alternative 7		SCENARIO II 3505MW				
EQUIPMENT	RATING AMPS	% OF RATING	FLOW AMPS	% OF RATING	FLOW AMPS	% OF RATING	FLOW AMPS	% OF RATING	FLOW AMPS	OUTAGE	MW	DELTA
SPRINGR – VAIL2 345kV	1351	82%	1114	100 %	1351	85%	1146	91 %	1223	SPRINGR-GREENLEE 345kV		
SAG-TORTOLITA #1 500kV	1590	31%	489	62%	986	86%	1364	101%	1602	SAG-TORTOLITA #2 500kV	3505	350

### Table 11

**Transmission Alternative 7A**

		BENCH MARK OUTAGE CASE 2005		SCENARIO I 3155MW		Alternative 7A		SCENARIO II 3955MW				
EQUIPMENT	RATING AMPS	% OF RATING	FLOW AMPS	% OF RATING	FLOW AMPS	% OF RATING	FLOW AMPS	% OF RATING	FLOW AMPS	OUTAGE	MW	DELTA
SPRINGR – VAIL2 345kV	1351	82%	1114	100 %	1351	85%	1145	100%	1350	SPRINGR-GREENLEE 345kV	3955	800

**Table 12**

**Transmission Alternative 8**

		BENCH MARK OUTAGE CASE 2005		SCENARIO I 3155MW		Alternative 8		SCENARIO II 3355MW				
EQUIPMENT	RATING AMPS	% OF RATING	FLOW AMPS	% OF RATING	FLOW AMPS	% OF RATING	FLOW AMPS	% OF RATING	FLOW AMPS	OUTAGE	MW	DELTA
SPRINGR – VAIL2 345kV	1351	82%	1114	100 %	1351	86%	1159	90%	1217	SPRINGR-GREENLEE 345kV		
APACHE-BUTRFLD 230 kV	840					96%	805	101%	844	WINCHSTR-VAIL 345kV	3355	200

**Table 13**

**Transmission Alternative 8A**

		BENCH MARK OUTAGE CASE 2005		SCENARIO I 3155MW		Alternative 8A		SCENARIO II 4055MW				
EQUIPMENT	RATING AMPS	% OF RATING	FLOW AMPS	% OF RATING	FLOW AMPS	% OF RATING	FLOW AMPS	% OF RATING	FLOW AMPS	OUTAGE	MW	DELTA
SPRINGR – VAIL2 345kV	1351	82%	1114	100 %	1351	84%	1130	100%	1354	SPRINGR-GREENLEE 345kV	3955	800