

Appendix B
A List of Arizona, California and New Mexico Major Transmission Facilities Ratings

CONTINUOUS AND EMERGENCY RATINGS OF MAJOR TRANSMISSION LINES

Transmission Line	Continuous		Emergency	
	(MVA)	(AMP)	(MVA)	(AMP)
Adelanto-Marketplace 500kV	1640	1800	2210	2430
Adelanto-Rinaldi 500kV	1600	1760	2000	2200
Adelanto-RSE 500kV	1600	1760	2000	2200
Ambrosia-Pajarito 525kV	2500	2750	-----	-----
BA-Guadalupe-Blackwater 345kV	220	368	220	368
BA-Norton 345kV	478	800	956	1600
BA-West Mesa 345kV	478	800	756	1280
Cholla-Pinnacle Peak 345kV 1&2	600	1004	783	1310
Cholla-Saguaro 500kV	933*	1026	1399*	1538
Coronado-Cholla 500kV	1732	2000	1732	2000
Coronado-Silver King 500kV	1233	1424	1233	1424
Coyote-Los Alamos-Ojo-Norton 345kV	1075	1800	-----	-----
DC Intermountain-Adelanto 500kV	1920	1920	2400	2400
Devers-Palo Verde 500kV	1728	1900	2210	2430
Devers-Valley 500kV	2730	3000	3000	3300
Eldorado-Lugo 500kV	1450	1600	2360	2600
Eldorado-Mohave 500kV	1820	2000	2360	2600
Flagstaff-Pinnacle Peak 345kV	747	1350	1004	1680
Four Corners-Ambrosia 230kV	319	800	319	800
Four Corners-Ambrosia 525kV	2500	2750	-----	-----
Four Corners-Cholla 345kV 1 & 2	687	1150	908	1520
Four Corners-Moenkopi 500kV	1646*	1810	2292*	2520
Four Corners-San Juan 345kV	945	1600	956	1600
Four Corners-West Mesa 345kV	717	1200	717	1200
Glen Canyon-Flagstaff 345kV 1&2	807	1500	1088	1820
Greenlee-Hidalgo 345kV No. 1	478	800	717	1200
Greenlee-Vail 345kV	896	1500	1110	1858
Hidalgo-Luna 345kV No. 1	478	800	956	1600
Imperial Valley-North Gila 500kV	1273	1400	1819	2000
Liberty-Mead 345kV	500	887	597	1000
Lugo-Mira Loma 500kV No. 1	1820	2000	2360	2600
Lugo-Mira Loma 500kV No. 2	1820	2000	2360	2600
Lugo-Mira Loma 500kV No. 3	1820	2000	2360	2600
Lugo-Mohave 500kV	1450	1600	2360	2600
Lugo-Serrano 500kV	2730	3000	3000	3300
Lugo-Victorville 500kV	2730	3000	2730	3000
Lugo-Vincent 500kV No. 1	1820	2000	2360	2600
Lugo-Vincent 500kV No. 2	1820	2000	2360	2600
McCullough-Eldorado 500kV	2728	3000	2728	3000
McCullough-Victorville 500kV 1 & 2	1455	1600	2182	2400
McKinley-Springerville 345kV 1 & 2	925	1548	1110	1858
Mead-Westwing 500kV	1300	1430	1750	1930

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	(MVA)	(AMP)	(MVA)	(AMP)
Miguel-Imperial Valley 500kV	1120	1232	1389	1530
Mira Loma-Serrano 500kV	2730	3000	3000	3000
Moenkopi-Eldorado 500kV	1728*	1900	2501*	2750
Moenkopi-Yavapai 500kV	1386*	1524	1870*	2057
Navajo-Crystal 500kV	1482*	1630	2501*	2750
Navajo-Moenkopi 500kV	1482*	1630	1882*	2070
Navajo-Westwing 500kV	1034*	1137	1391*	1530
Palo Verde-Kyrene 500kV	1819*	2000	2328*	2560
Palo Verde-North Gila 500kV	1273*	1400	1719*	1890
Palo Verde-Westwing 500kV	2728*	3000	2728*	3000
Saguaro-Tortolita 500kV	1093	1262	1311	1514
San Juan-BA 345kV	478	800	717	1200
San Juan-McKinley 345kV 1&2	777	1300	1016	1700
San Juan-ojo 345kV	478	800	717	1200
San Juan-Shiprock 345kV	478	800	717	1200
Serrano-valley 500kV	2730	3000	3000	3300
Springerville-Coronado 345kV	755	1264	906	1517
Springerville-Greenlee 345kV	745	1247	1010	1690
Springerville-Vail 345kV	666	1115	860	1440
Vail-South 345kV	925	1548	1110	1858
Victorville-Adelanto 500kV 1&2	2728	3000	2728	3000
Victorville-Lugo 500kV	2728	3000	2728	3000
Miguel-Imperial Valley 500kV	1120	1232	1389	1530
Victorville-Rinaldi 500kV	1600	1760	2000	2200
West Mesa-Ambrosia 230kV	319	800	319	800
West Mesa-Arroyo (Pajarito) 345kV	478	800	717	1200
West Mesa-Pajarito 345kV	478	800	717	1200
Westwing-South 345kV	925	1548	1110	1858
Yavapai-Westwing 500kV	1109*	1219	1491*	1645
Julian Hinds-Mirage 230kV	357	895	410	1029
Imperial Valley-El Centro 230kV	225	565	262	656
Coachella-Mirage 230kV	494	1240	569	1426
Coachella-Devers 230kV	494	1240	569	1426

*Calculated on a 525kV base

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	Continuous		Emergency	
	(MVA)	(AMP)	(MVA)	(AMP)
Planned 500 & 345kV lines				
Redhawk - Hassayampa 500kV	2728*	3000	2728*	3000
Gila River - Jojoba 500 kV	2728*	3000	2728*	3000
Saguaro - Tortolita 500kV				
Palo Verde - Southwest Valley 500kV				
Palo Verde - S.E. Valley 500kV				
Silver King - S.E. Valley 500kV				
Southwest Valley loop-in Jojoba/Kyrene 500kV				
Palo Verde - Table Mesa 500kV	TBD	TBD	TBD	TBD
Palo Verde - Saguaro 500kV	TBD	TBD	TBD	TBD
South to Gateway 345kV				
Greenlee - Copper Verde 345kV				
Loop - Winchester Switchyard 345kV				
Arizona - Sonora 345kV				
Greenlee - Deming 345kV				
Tortolita - South 345kV				
Westwing - South 345kV				
Springerville to Greenlee 345kV				

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CONTINUOUS AND EMERGENCY RATINGS OF PHOENIX 230kV LINES

Transmission Line	Rating (MVA)	
	Continuous	Emergency
Agua Fria-Alexander	725	797
Agua Fria-El Sol	435	543
Agua Fria-Glendale	458	571
Agua Fria-Westwing	526	526
Agua Fria-White Tanks	725	797
Alexander-Deer Valley	683	852
Anderson-Orme	637	637
Anderson-Kyrene	637	637
Brandow-Kyrene	637	637
Brandow-Papago Buttes	637	637
Brandow-Pinnacle Peak (Two Lines)	363 ea.	438 ea.
Cactus-Ocotillo	371	447
Cactus-Pinnacle Peak	371	447
Corbell-Kyrene	637	637
Corbell-Santan	363	438
Country Club-Glendale	363	513
Country Club-Lincoln Street	558	811
Country Club-Meadowbrook	518	791
Deer Valley-Pinnacle Peak	720	797
Deer Valley-Westwing	720	797
El Sol-Surprise	720	797
El Sol-White Tanks	733	910
Kyrene-Papago Buttes	637	637
Knox-Santa Rosa	1155	1155
Kyrene (New)-Knox	1155	1155
Liberty-Coolidge	367	403
Liberty-Gila Bend	438	537
Liberty-Hassayampa-Harcuvar-Parker	438	482
Liberty-Eagle Eye-Parker	438	482
Liberty-Orme	725	876
Liberty-Westwing	733	806
Lincoln Street-Ocotillo	313	388
Lincoln Street-West Phoenix	371	461
Lone Peak-Reach	733	797
Lone Peak-Sunnyslope	458	571
Meadowbrook-Sunnyslope	325	490
Mesa-Coolidge	335	368
Mesa-Pinnacle Peak (Two Lines)	375 ea.	412 ea.
Mesa-Thunderstone	363	438
Ocotillo-Kyrene (New)	309	383
Ocotillo-Pinnacle Peak	371	447
Orme-White Tanks	725	797

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Transmission Line	Rating (MVA)			
	Continuous		Emergency	
Pinnacle Peak-Westwing	733		806	
Pinnacle Peak-Prescott-Davis	335		368	
Reach-Pinnacle Peak	733		797	
Santan-Thunderstone	363		438	
Surprise-Westwing	796		837	
Thunderstone-Goldfield (Two Lines)	363	ea.	438	ea.
West Phoenix-White Tanks (Two Lines)	1195	ea.	1195	ea.

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	If not Phoenix area, provide also the continuous and emergency AMP ratings			
Planned 230kV lines	Continuous		Emergency	
	MVA	AMP	MVA	AMP
Lone Butte - Maricopa				
Southwest Valley - Liberty South	733	1840	797	2000
Apache - Winchester	438.21	1100	482.03	1210
Hackberry - PD Safford				
Maricopa - Casa Grande				
Liberty South - TS3	1195	3000	1195	3000
Liberty South - Liberty	1195	3000	1195	3000
Westwing - Raceway				
Santa Rosa - Gila Bend	736	1847	736	1847
Browning - S.E. Valley				
Hassayampa - S.E. Valley				
Flagstaff - Winona	TBD	TBD	TBD	TBD
Gila Bend - Yuma	TBD	TBD	TBD	TBD
Trilby Wash - El Sol	TBD	TBD	TBD	TBD
Raceway - Avery	TBD	TBD	TBD	TBD
TS3-Buckeye	TBD	TBD	TBD	TBD
Westwing - El Sol	1195	3000	1195	3000
Table Mesa - Raceway	TBD	TBD	TBD	TBD
Pinnacle Peak - Avery	1195	3000	1195	3000
TS2 - TS3	1195	3000	1195	3000
Westwing - Pinnacle Peak	1195	3000	1195	3000
Parker - Blythe				
Buck - Gold Mine - Knob - Gila				
Knob - Pilot Knob				
Gila - Knob				

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	If not Phoenix area, provide also the continuous and emergency AMP ratings			
Planned 230kV lines	Continuous		Emergency	
	MVA	AMP	MVA	AMP
Wellton - Mohawk - Gila				
Ligurta - North Gila				
Rogers to Browning				
Silver King to Browning				
Silver King to Browning/Superior Tie				
RS19 to RS23				
Pinnacle Peak to Brandow				
Rogers to Corbell				
Silver King - Knoll - New Hayden				
Westwing to Pinnacle Peak				
Griffith - North Havasu	300	753		