

Appendix C-1
Ten-Year Plans (2002-2011) Sorted by Date

IN SERVICE DATE	COMPANY	TRANSMISSION		MILES	LOCATION	CEC STATUS
		DESCRIPTION	VOLTAGE			
2002	APS	Redhawk - Hassayampa	500kV	1.5	West of Phoenix	ISSUED
2002	APS	Gila River - Jojoba	500kV	21	West of Phoenix	ISSUED
2002	WAPA	Lone Butte - Maricopa	230kV	?	SW Arizona	???
2003	APS	Southwest Valley - Liberty South	230kV	11	West of Phoenix	Case No. 115
2003	Citizens/TEP	Nogales Second Transmission Line	115kV	50	South of Tucson	REQUIRED
2003	MW&E	Greenlee - Copper Verde	345kV	11	SE Arizona	???
2003	SRP	Palo Verde - Southwest Valley (APS/SRP)	500kV	36	West of Phoenix	Case No. 115
2003	TEP	Saguaro - Tortolita	500kV	1	Northwest of Tucson	REQUIRED
2003	TEP	South to Gateway	345kV	70	South of Tucson	ISSUED
2004	MW&E	Hackberry - PD Safford	230kV	4	SE Arizona	???
2004	PNM	Arizona - Sonora	345kV	300	Phoenix to Tucson	REQUIRED
2004	SWTC	Apache - Winchester	230kV	23	SE Arizona	REQUIRED
2004	TEP	Loop - Winchester Switchyard	345kV	1	North of Tucson	REQUIRED
2005	APS	Liberty South - TS3	230kV	5	West of Phoenix	REQUIRED
2005	APS	Liberty South - Liberty	230kV	1	West of Phoenix	REQUIRED
2005	APS	Westwing - Raceway	230kV	7	West of Phoenix	REQUIRED
2005	APS	Santa Rosa - Gila Bend	230kV	55	Southern Arizona	ISSUED
2005	TEP	East Loop - Northeast	138kV	13	Central Tucson	ISSUED
2005	TEP	Irvington - Robert Bills - Wilmot - Vail	138kV	4	SE Tucson	ISSUED
2005	TEP	South Loop - Green Valley - Cyprus Sierrita	138kV	24	South of Tucson	ISSUED
2005	WAPA	Maricopa - Casa Grande	230kV	?	SW Arizona	???
2006	APS	Southwest Valley loop-in Jojoba/Kyrene	500kV	1	West of Phoenix	ISSUED
2006	APS	Flagstaff - Winona	230kV	5	East of Flagstaff	REQUIRED
2006	APS	Gila Bend - Yuma	230kV	115	SW Arizona	REQUIRED
2006	APS	Trilby Wash - El Sol	230kV	15	NW Phoenix	REQUIRED
2006	APS	Pinal - Ice House	115kV	4	Near Globe	REQUIRED
2006	SRP	Palo Verde - S.E. Valley	500kV	100	SE of Phoenix	REQUIRED
2006	SRP	Silver King - S.E. Valley	500kV	10	SE of Phoenix	REQUIRED
2006	SRP	Browning - S.E. Valley	230kV	25	SE of Phoenix	REQUIRED
2007	APS	Raceway - Avery	230kV	10	North of Phoenix	REQUIRED
2007	APS	TS3-Buckeye	230kV	7	Buckeye	REQUIRED

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IN SERVICE DATE	COMPANY	TRANSMISSION		MILES	LOCATION	CEC STATUS
		DESCRIPTION	VOLTAGE			
2008	APS	Palo Verde - Table Mesa	500kV	120	North of Phoenix	REQUIRED
2008	APS	Westwing - El Sol	230kV	11	NW Phoenix	ISSUED
2008	APS	Table Mesa - Raceway	230kV	16	NW Phoenix	REQUIRED
2008	APS	Pinnacle Peak - Avery	230kV	16	North of Phoenix	REQUIRED
2008	TEP	Rancho Vistoso - Catalina	138kV	4	North of Tucson	REQUIRED
2009	APS	TS2 - TS3	230kV	7	SW Phoenix	REQUIRED
2009	TEP	North Loop - Del Cerro - DeMoss Petrie	138kV	0.75	West of Tucson	ISSUED
2009	TEP	Green Valley - Cyprus Raw Water - Cyprus Sierrita	138kV	0.05	South of Tucson	NOT REQUIRED
2009	TEP	Vail - Pantano - Los Reales - East Loop	138kV	0.05	SE Tucson	NOT REQUIRED
2010	TEP	Irvington - East Loop	138kV	9	Central Tucson	ISSUED
2011	APS	Westwing - Pinnacle Peak	230kV	32	North Phoenix	REQUIRED
POSTPONED	EPE/TNMP	Greenlee - Deming	345kV	28	SE Arizona	ISSUED
TBD	APS	Palo Verde - Saguaro (APS/SRP)	500kV	130	South of Phoenix	ISSUED
TBD	Citizens	Griffith - North Havasu	230kV	40	Western Arizona	ISSUED
TBD	Citizens	Santa Cruz Capacity Increase	115kV	7	Western Arizona	REQUIRED
TBD	SRP	Palo Verde - Saguaro (APS/SRP)	500kV	130	South of Phoenix	ISSUED
TBD	SRP	Rogers to Browning	230kV	8	SE of Phoenix	REQUIRED
TBD	SRP	Silver King to Browning	230kV	38	SE of Phoenix	REQUIRED
TBD	SRP	Silver King to Browning/Superior Tie	230kV	0.5	East of Phoenix	REQUIRED
TBD	SRP	RS19 to RS23	230kV	20	SE of Phoenix	REQUIRED
TBD	SRP	Pinnacle Peak to Brandow	230kV	30	NE of Phoenix	REQUIRED
TBD	SRP	Rogers to Corbell	230kV	12	East of Phoenix	REQUIRED
TBD	SRP	Silver King - Knoll - New Hayden	230kV	35	SE of Phoenix	REQUIRED
TBD	SRP	Westwing to Pinnacle Peak	230kV	22	North of Phoenix	REQUIRED
TBD	SRP	Kearny - Hayden - New Hayden	115kV	0.75	SE of Phoenix	REQUIRED
TBD	WAPA	Parker - Blythe	230kV	?	SW Arizona	???
TBD	WAPA	Buck - Gold Mine - Knob - Gila	230kV	?	SW Arizona	???

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IN SERVICE DATE	COMPANY	TRANSMISSION		MILES	LOCATION	CEC STATUS
		DESCRIPTION	VOLTAGE			
TBD	WAPA	Knob - Pilor Knob	230kV	?	SW Arizona	???
TBD	WAPA	Gila - Knob	230kV	?	SW Arizona	???
TBD	WAPA	Wellton - Mohawk - Gila	230kV	?	SW Arizona	???
TBD	WAPA	Ligurta - North Gila	230kV	?	SW Arizona	???
UNDER REVIEW	TEP	Vail - Houghton Loop Switching - Spanish Trail - Roberts - East Loop	138kV	22	Central Tucson	ISSUED
UNDER STUDY	TEP	Tortolita - South	345kV	68	West of Tucson	ISSUED
UNDER STUDY	TEP	Westwing - South	345kV	178	Phoenix to Tucson	CONTEST
UNDER STUDY	TEP	Springerville to Greenlee	345kV	110	Eastern Arizona	ISSUED
UNDER STUDY	TEP	Midvale - San Joaquin	138kV	6	SW Tucson	REQUIRED
UNDER STUDY	TEP	South - DeMoss Petrie	138kV	18	SE Tucson	REQUIRED

Appendix C-2
Ten-Year Plans (2002-2011) Sorted by Company

IN SERVICE DATE	COMPANY	TRANSMISSION		MILES	LOCATION	CEC STATUS
		DESCRIPTION	VOLTAGE			
2002	APS	Redhawk - Hassayampa	500kV	1.5	West of Phoenix	ISSUED
2002	APS	Gila River - Jojoba	500kV	21	West of Phoenix	ISSUED
2003	APS	Southwest Valley - Liberty South	230kV	11	West of Phoenix	Case No. 115
2005	APS	Liberty South - TS3	230kV	5	West of Phoenix	REQUIRED
2005	APS	Liberty South - Liberty	230kV	1	West of Phoenix	REQUIRED
2005	APS	Westwing - Raceway	230kV	7	West of Phoenix	REQUIRED
2005	APS	Santa Rosa - Gila Bend	230kV	55	Southern Arizona	ISSUED
2006	APS	Pinal - Ice House	115kV	4	Near Globe	REQUIRED
2006	APS	Flagstaff - Winona	230kV	5	East of Flagstaff	REQUIRED
2006	APS	Gila Bend - Yuma	230kV	115	SW Arizona	REQUIRED
2006	APS	Trilby Wash - El Sol	230kV	15	NW Phoenix	REQUIRED
2006	APS	Southwest Valley loop- in Jojoba/Kyrene	500kV	1	West of Phoenix	ISSUED
2007	APS	Raceway - Avery	230kV	10	North of Phoenix	REQUIRED
2007	APS	TS3-Buckeye	230kV	7	Buckeye	REQUIRED
2008	APS	Westwing - El Sol	230kV	11	NW Phoenix	ISSUED
2008	APS	Table Mesa - Raceway	230kV	16	NW Phoenix	REQUIRED
2008	APS	Pinnacle Peak - Avery	230kV	16	North of Phoenix	REQUIRED
2008	APS	Palo Verde - Table Mesa	500kV	120	North of Phoenix	REQUIRED
2009	APS	TS2 - TS3	230kV	7	SW Phoenix	REQUIRED
2011	APS	Westwing - Pinnacle Peak	230kV	32	North Phoenix	REQUIRED
TBD	APS	Palo Verde - Saguaro (APS/SRP)	500kV	130	South of Phoenix	ISSUED
TBD	Citizens	Santa Cruz Capacity Increase	115kV	7	Western Arizona	REQUIRED
TBD	Citizens	Griffith - North Havasu	230kV	40	Western Arizona	ISSUED
2003	Citizens/TEP	Nogales Second Transmission Line	115kV	50	South of Tucson	REQUIRED
POSTPONED	EPE/TNMP	Greenlee - Deming	345kV	28	SE Arizona	ISSUED
2003	MW&E	Greenlee - Copper Verde	345kV	11	SE Arizona	???
2004	MW&E	Hackberry - PD Safford	230kV	4	SE Arizona	???
2004	PNM	Arizona - Sonora	345kV	300	Phoenix to Tucson	REQUIRED
2003	SRP	Palo Verde - Southwest Valley (APS/SRP)	500kV	36	West of Phoenix	Case No. 115
2006	SRP	Browning - S.E. Valley	230kV	25	SE of Phoenix	REQUIRED

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Ten-Year Plans (2002-2011) Sorted by Company**

IN SERVICE DATE	COMPANY	TRANSMISSION		MILES	LOCATION	CEC STATUS
		DESCRIPTION	VOLTAGE			
2006	SRP	Palo Verde - S.E. Valley	500kV	100	SE of Phoenix	REQUIRED
2006	SRP	Silver King - S.E. Valley	500kV	10	SE of Phoenix	REQUIRED
TBD	SRP	Kearny - Hayden - New Hayden	115kV	0.75	SE of Phoenix	REQUIRED
TBD	SRP	Rogers to Browning	230kV	8	SE of Phoenix	REQUIRED
TBD	SRP	Silver King to Browning	230kV	38	SE of Phoenix	REQUIRED
TBD	SRP	Silver King to Browning/Superior Tie	230kV	0.5	East of Phoenix	REQUIRED
TBD	SRP	RS19 to RS23	230kV	20	SE of Phoenix	REQUIRED
TBD	SRP	Pinnacle Peak to Brandow	230kV	30	NE of Phoenix	REQUIRED
TBD	SRP	Rogers to Corbell	230kV	12	East of Phoenix	REQUIRED
TBD	SRP	Silver King - Knoll - New Hayden	230kV	35	SE of Phoenix	REQUIRED
TBD	SRP	Westwing to Pinnacle Peak	230kV	22	North of Phoenix	REQUIRED
TBD	SRP	Palo Verde - Saguaro (APS/SRP)	500kV	130	South of Phoenix	ISSUED
2004	SWTC	Apache - Winchester	230kV	23	SE Arizona	REQUIRED
2003	TEP	South to Gateway	345kV	70	South of Tucson	ISSUED
2003	TEP	Saguaro - Tortolita	500kV	1	Northwest of Tucson	REQUIRED
2004	TEP	Loop - Winchester Switchyard	345kV	1	North of Tucson	REQUIRED
2005	TEP	East Loop - Northeast	138kV	13	Central Tucson	ISSUED
2005	TEP	Irvington - Robert Bills - Wilmot - Vail	138kV	4	SE Tucson	ISSUED
2005	TEP	South Loop - Green Valley - Cyprus Sierrita	138kV	24	South of Tucson	ISSUED
2008	TEP	Rancho Vistoso - Catalina	138kV	4	North of Tucson	REQUIRED
2009	TEP	North Loop - Del Cerro - DeMoss Petrie	138kV	0.75	West of Tucson	ISSUED
2009	TEP	Green Valley - Cyprus Raw Water - Cyprus Sierrita	138kV	0.05	South of Tucson	NOT REQUIRED
2009	TEP	Vail - Pantano - Los Reales - East Loop	138kV	0.05	SE Tucson	NOT REQUIRED
2010	TEP	Irvington - East Loop	138kV	9	Central Tucson	ISSUED
UNDER REVIEW	TEP	Vail - Houghton Loop Switching - Spanish Trail - Roberts - East Loop	138kV	22	Central Tucson	ISSUED

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Ten-Year Plans (2002-2011) Sorted by Company**

IN SERVICE DATE	COMPANY	TRANSMISSION		MILES	LOCATION	CEC STATUS
		DESCRIPTION	VOLTAGE			
UNDER STUDY	TEP	Midvale - San Joaquin	138kV	6	SW Tucson	REQUIRED
UNDER STUDY	TEP	South - DeMoss Petrie	138kV	18	SE Tucson	REQUIRED
UNDER STUDY	TEP	Tortolita - South	345kV	68	West of Tucson	ISSUED
UNDER STUDY	TEP	Westwing - South	345kV	178	Phoenix to Tucson	CONTEST
UNDER STUDY	TEP	Springerville to Greenlee	345kV	110	Eastern Arizona	ISSUED
2002	WAPA	Lone Butte - Maricopa	230kV	?	SW Arizona	???
2005	WAPA	Maricopa - Casa Grande	230kV	?	SW Arizona	???
TBD	WAPA	Parker - Blythe	230kV	?	SW Arizona	???
TBD	WAPA	Buck - Gold Mine - Knob - Gila	230kV	?	SW Arizona	???
TBD	WAPA	Knob - Pilor Knob	230kV	?	SW Arizona	???
TBD	WAPA	Gila - Knob	230kV	?	SW Arizona	???
TBD	WAPA	Wellton - Mohawk - Gila	230kV	?	SW Arizona	???
TBD	WAPA	Ligurta - North Gila	230kV	?	SW Arizona	???

Appendix C-3
Ten-Year Plans (2002-2011) Sorted by Voltage

IN SERVICE DATE	COMPANY	TRANSMISSION		MILES	LOCATION	CEC STATUS
		DESCRIPTION	VOLTAGE			
2002	APS	Redhawk - Hassayampa	500kV	1.5	West of Phoenix	ISSUED
2002	APS	Gila River - Jojoba	500kV	21	West of Phoenix	ISSUED
2003	TEP	Saguaro - Tortolita	500kV	1	Northwest of Tucson	REQUIRED
2003	SRP	Palo Verde - Southwest Valley (APS/SRP)	500kV	36	West of Phoenix	Case No. 115
2006	SRP	Palo Verde - S.E. Valley	500kV	100	SE of Phoenix	REQUIRED
2006	SRP	Silver King - S.E. Valley	500kV	10	SE of Phoenix	REQUIRED
2006	APS	Southwest Valley loop-in Jojoba/Kyrene	500kV	1	West of Phoenix	ISSUED
2008	APS	Palo Verde - Table Mesa	500kV	120	North of Phoenix	REQUIRED
TBD	APS	Palo Verde - Saguaro	500kV	130	South of Phoenix	ISSUED
2003	TEP	South to Gateway	345kV	70	South of Tucson	ISSUED
2003	MW&E	Greenlee - Copper Verde	345kV	11	SE Arizona	???
2004	TEP	Loop - Winchester Switchyard	345kV	1	North of Tucson	REQUIRED
2004	PNM	Arizona - Sonora	345kV	300	Phoenix to Tucson	REQUIRED
POSTPONED	EPE/TNMP	Greenlee - Deming	345kV	28	SE Arizona	ISSUED
UNDER STUDY	TEP	Tortolita - South	345kV	68	West of Tucson	ISSUED
UNDER STUDY	TEP	Westwing - South	345kV	178	Phoenix to Tucson	CONTEST
UNDER STUDY	TEP	Springerville to Greenlee	345kV	110	Eastern Arizona	ISSUED
2002	WAPA	Lone Butte - Maricopa	230kV	?	SW Arizona	???
2003	APS	Southwest Valley - Liberty South	230kV	11	West of Phoenix	Case No. 115
2004	SWTC	Apache - Winchester	230kV	23	SE Arizona	REQUIRED
2004	MW&E	Hackberry - PD Safford	230kV	4	SE Arizona	???
2005	WAPA	Maricopa - Casa Grande	230kV	?	SW Arizona	???
2005	APS	Liberty South - TS3	230kV	5	West of Phoenix	REQUIRED
2005	APS	Liberty South - Liberty	230kV	1	West of Phoenix	REQUIRED
2005	APS	Westwing - Raceway	230kV	7	West of Phoenix	REQUIRED
2005	APS	Santa Rosa - Gila Bend	230kV	55	Southern Arizona	ISSUED
2006	SRP	Browning - S.E. Valley	230kV	25	SE of Phoenix	REQUIRED
2006	APS	Hassayampa - S.E.	230kV	120	South of Tucson	REQUIRED

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IN SERVICE DATE	COMPANY	TRANSMISSION		MILES	LOCATION	CEC STATUS
		DESCRIPTION	VOLTAGE			
2006	APS	Flagstaff - Winona	230kV	5	East of Flagstaff	REQUIRED
2006	APS	Gila Bend - Yuma	230kV	115	SW Arizona	REQUIRED
2006	APS	Trilby Wash - El Sol	230kV	15	NW Phoenix	REQUIRED
2007	APS	Raceway - Avery	230kV	10	North of Phoenix	REQUIRED
2007	APS	TS3-Buckeye	230kV	7	Buckeye	REQUIRED
2008	APS	Westwing - El Sol	230kV	11	NW Phoenix	ISSUED
2008	APS	Table Mesa - Raceway	230kV	16	NW Phoenix	REQUIRED
2008	APS	Pinnacle Peak - Avery	230kV	16	North of Phoenix	REQUIRED
2009	APS	TS2 - TS3	230kV	7	SW Phoenix	REQUIRED
2011	APS	Westwing - Pinnacle Peak	230kV	32	North Phoenix	REQUIRED
TBD	WAPA	Parker - Blythe	230kV	?	SW Arizona	???
TBD	WAPA	Buck - Gold Mine - Knob - Gila	230kV	?	SW Arizona	???
TBD	WAPA	Knob - Pilor Knob	230kV	?	SW Arizona	???
TBD	WAPA	Gila - Knob	230kV	?	SW Arizona	???
TBD	WAPA	Wellton - Mohawk - Gila	230kV	?	SW Arizona	???
TBD	WAPA	Ligurta - North Gila	230kV	?	SW Arizona	???
TBD	SRP	Rogers to Browning	230kV	8	SE of Phoenix	REQUIRED
TBD	SRP	Silver King to Browning	230kV	38	SE of Phoenix	REQUIRED
TBD	SRP	Silver King to Browning/Superior Tie	230kV	0.5	East of Phoenix	REQUIRED
TBD	SRP	RS19 to RS23	230kV	20	SE of Phoenix	REQUIRED
TBD	SRP	Pinnacle Peak to Brandow	230kV	30	NE of Phoenix	REQUIRED
TBD	SRP	Rogers to Corbell	230kV	12	East of Phoenix	REQUIRED
TBD	SRP	Silver King - Knoll - New Hayden	230kV	35	SE of Phoenix	REQUIRED
TBD	SRP	Westwing to Pinnacle Peak	230kV	22	North of Phoenix	REQUIRED
TBD	Citizens	Griffith - North Havasu	230kV	40	Western Arizona	ISSUED
2005	TEP	East Loop - Northeast	138kV	13	Central Tucson	ISSUED
2005	TEP	Irvington - Robert Bills - Wilmot - Vail	138kV	4	SE Tucson	ISSUED
2005	TEP	South Loop - Green Valley - Cyprus Sierrita	138kV	24	South of Tucson	ISSUED
2008	TEP	Rancho Vistoso - Catalina	138kV	4	North of Tucson	REQUIRED
2009	TEP	North Loop - Del Cerro - DeMoss Petrie	138kV	0.75	West of Tucson	ISSUED
2009	TEP	Green Valley - Cyprus Raw Water - Cyprus Sierrita	138kV	0.05	South of Tucson	NOT REQUIRED

Appendix C-3
Ten-Year Plans (2002-2011) Sorted by Voltage

IN SERVICE DATE	COMPANY	TRANSMISSION		MILES	LOCATION	CEC STATUS
		DESCRIPTION	VOLTAGE			
2009	TEP	Vail - Pantano - Los Reales - East Loop	138kV	0.05	SE Tucson	NOT REQUIRED
2010	TEP	Irvington - East Loop	138kV	9	Central Tucson	ISSUED
UNDER REVIEW	TEP	Vail - Houghton Loop Switching - Spanish Trail - Roberts - East Loop	138kV	22	Central Tucson	ISSUED
UNDER STUDY	TEP	Midvale - San Joaquin	138kV	6	SW Tucson	REQUIRED
UNDER STUDY	TEP	South - DeMoss Petrie	138kV	18	SE Tucson	REQUIRED
2003	Citizens/ TEP	Nogales Second Transmission Line	115kV	50	South of Tucson	REQUIRED
2006	APS	Pinal - Ice House	115kV	4	Near Globe	REQUIRED
TBD	SRP	Kearny - Hayden - New Hayden	115kV	0.75	SE of Phoenix	REQUIRED
TBD	Citizens	Santa Cruz Capacity Increase	115kV	7	Western Arizona	REQUIRED

**Appendix C-4
Ten-Year Plans (2002-2011) Merchant Plants**

IN SERVICE DATE	OWNER	TRANSMISSION			MILES	LOCATION	CEC STATUS
		DESCRIPTION	# UNITS	VOLTAGE			
2005	Reliant Energy	Signal Peak Interconnection	?	230kV	30	Casa Grande	??
2005	Desert Energy	Desert Energy Power Plant	?	500kV	1	Pinal County	??
2006	Maestros	Ambos Nogales Generating Station	1	230kV	9	South Arizona	
??	Allegheny	La Paz Generating Station	?	500kV	2	??	ISSUED
??	Dome Valley	Wellton-Mohawk Generating Project	1	??	??	??	??
2004	Bowie	Bowie Power Station	2	345kV	15	SE Arizona	ISSUED
2003	Gila Bend	Gila Bend Power Project		500kV	2	South of Phoenix	ISSUED
2003	TECO/Panda	Panda Gila River Power Station	4	500kV	20	South Arizona	
2004	Allegheny	Allegheny Power Project	2	500kV	?	SW Arizona	REQUIRED
2003	PP&L	Sundance Energy Project	12	230kV	6	Coolidge AZ	REQUIRED
2002	PPL & Duke	Griffith Energy Project	1	230kV	28	NW Arizona	OPERATING