Form EIA-411 for 2007

Released: Fabruary 2009
Next Update: Cotober 2009
Table 6. Existing and Proposed High-voltage Transmission Line Additions Filed Covering Calendar Year 2007, by North American Electric Reliability Corporation, 2008 Through 2018

(Various)			1						by North American Elec										ı			
	eographic	Area		Voltage				Electrical Conn	ection Locations		Line Info	ormation	1	Cond	luctor Cha	racteristics	Circ	uits		Company Info	rmation	т —
- with Total (T) for sub- regions	NERC Region	NERC Sub-region	Туре	Operating (kV)	Design (kV)	Capacity Rating (MVa)	In-Service Date	From Terminal	To Terminal	Length (Miles)	Туре	Pole Type	Pole Material	Size (MCM)	Material	Bundling Arrangement	Present	Ultimate	Company Code	Company Name	Organizational Type	Ownership (Percent)
US	FRCC	-	AC	230		1141	05/01/08	Lake Bryan	Windermere #1	10									6455 F	EF		100
US	FRCC	-	AC	230		1141	05/01/08	Lake Bryan	Windermere #2	10									6455 F			100
US	FRCC	-	AC AC	230 230		810 810	09/01/08	Northeast	40th Street	8									6455 F			100
US	FRCC	-	AC	230		810	09/01/08	Pasadena 51st Street	51st Street 40th Street	1									6455 F			100
US	FRCC	-	AC	230		759	12/01/08	St. Johns	Pringle	25									6452 F	PL		100
US	FRCC	-	AC	230		460	04/01/09	Bayside	Gannon	0.1									18454 T			100
US	FRCC	-	AC AC	230 230		1141 612	05/01/09 06/01/09	Avalon Bartow	Gifford Northeast Circuit 1	7									6455 F			100
US	FRCC	-	AC	230		612	06/01/09	Bartow	Northeast Circuit 2	4									6455 F			100
US	FRCC	-	AC	230		612	06/01/09	Bartow	Northeast Circuit 3	4									6,455 F	EF		100
US	FRCC	-	AC	230		460		Big Bend (Plant)	Big Bend (Switching Stat	i 0.1									18454 T			100
US	FRCC	-	AC AC	230 230		1141 1141	05/01/10		West Lake Wales #2 Stanton(OUC)	21									6455 F			10
US	FRCC	-	AC	230		1141		Intercession City	West Lake Wales #2	30									6455 F			10
US	FRCC	-	AC	230		800	05/01/11	Stanton	Bithlo	4.4									14610 C			10
US	FRCC	-	AC	230		668	05/01/11		Duval Substation	12.5		-							9617 J			10
US	FRCC	-	AC AC	230 230		1141 1141	06/01/11	Intercession City Lake Agnes (TECO)	West Lake Wales #1 Gifford	30 32			-	-			-	l	6455 F			10
US	FRCC	-	AC	230		1141		Manatee	BobWhite	32									6452 F			10
US	FRCC	-	AC	230		650	04/01/12	Polk Power Station	Polk Power Station (Swite	0.7									18454 T			10
US	FRCC	-	AC	230		668		Bartram Substation	Switzerland Substation	6.88									9617 J	EA		10
US	FRCC	-	AC AC	230 230		668 668	05/01/12	Southeast Generating St Bartram Substation	Bartram Substation Sampson Substation	8.84 4.04									9617 J 9617 J			10
US	FRCC	-	AC	230		668	05/01/12	Bartram Substation	Switzerland Substation	6.88									9617 J			10
US	FRCC	-	AC	230		749	06/01/12		Pebbledale (1)	13.5									18454 T	EC		100
US	FRCC	-	AC	230		1013		Polk	Pebbledale (2)	9.9									18454 T			10
US	FRCC	-	AC	230		464 1195		HOPKINS-CRAWFORD		10 r 10									18445 T			10
US	FRCC	-	AC AC	230 230		1195	12/01/12		Gilchrist Switching Statio Gilchrist Switching Statio										21554 S 21554 S			10
US	FRCC	-	AC	230		1013	12/01/12		FishHawk	28									18454 T			10
US	FRCC	-	AC	230		1141	06/01/13		Suwannee	40									6455 F			10
US	FRCC	-	AC	230 500		800 2870	11/01/15	St. Cloud South	KUA Central FL South	10 50									14610 C			10
US	FRCC	-	AC AC	500		2870		Levy Levy	Crystal River	10									6455 F			100
US	FRCC	-	AC	230		464		SUB 5 230	SUB 7 230	13									18445 T			100
US	FRCC	-	AC	230		1141		Kathleen	Lake Tarpon	45									6455 F			100
US	FRCC	-	AC AC	230 230		1141 1141	06/01/16 06/01/16		Crystal River East #1	6									6455 F			100
US	FRCC	-	AC	500		2870	06/01/16	Citrus Levy	Crystal River East #2 Citrus #1	10									6455 F			100
US	FRCC	-	AC	500		2870	06/01/16	Levy	Citrus #2	10									6455 F			10
US	FRCC	-	AC	230		1141	06/01/16	Crystal River	Brookridge	35									6455 F			10
US	FRCC	-	AC AC	230 345	345	1141 1219		Brookridge Tower LH001	Brooksville West Stone Lake [1]	57.86	OH	P	S	954	ACSR	2	- 1	1	6455 F 659 A		0	10
US	MRO	-	AC	345	345	1219		Tower LH001	Arrowhead [1]	20.94	OH	P	S	1272	ACSR	2	1	1		TCLLC	0	
US	MRO	-	AC	345	345	1210	01/13/08		Twin Cities	250	0			1272	/\our	-		·		APX	Ö	
US	MRO	-	AC	345	345			Brookings County, South		200										APX	0	
US	MRO MRO	-	AC AC	345 230	345 230		01/14/08	Marshall Hazel Creek	Hazel Creek Minnesota Valley	25 10										APX APX	0	
US	MRO	1 -	AC	345	345		01/14/08	Twin Cities	La Crosse	150			-	-			-			APX	0	
US	MRO	-	AC	345	345		02/01/08	Arrowhead (MN)	Weston (WI)	11.88	OH				M-BUNDL	.ED			659 A	TC (MP,WPS)	I,I	5
US	MRO	-	AC	230	230		02/13/08	Big Stone	Morris	47	OH	Н	W	1272	ACSR	1	1	1		eartland Consumers Powe		
US	MRO MRO	-	AC AC	230 345	345 345	1195		Big Stone Nebraska City Station, N	Granite Falls 103rd & Rokeby Substati	90	OH	H Single	W Steel	1272 2x397.5	ACSR ACSR	2 2	1	1		eartland Consumers Power maha Public Power District		
US	MRO	-	AC	345	345	1068	12/08/08	NW 68th & Holdr	128th & Adams	30	OH	Single	Steel	T-2 397.5	ACSR	2	0	2	14127 C		M	
US	MRO	-	AC	345	345	1195	06/01/09	NW68th&Holdrege	Columbus East	38	OH	P	S	T2-477	ACSR	2	1		13337 N	PPD	S	100
US	MRO	-	AC	345	345	1195	06/01/09	NW68th&Holdrege	Columbus East	29	OH	P	S	T2-477	ACSR	2	2		13337 N		S	
US	MRO MRO	-	AC AC	345 345	345 345	1195 1195	06/01/09	Columbus East	Shell Creek Shell Creek	11	OH	P	S	T2-477 T2-477	ACSR ACSR	2	1 2		13337 N		S	
US	MRO	-	AC AC	345	345	1195		Columbus East Shell Creek	Hoskins	40		T	S	954	ACSR	2	2	2	13337 N		S	
US	MRO		AC	230	345	TBD	11/01/09	Big Stone 230 kv Sub	Canby Sub	55	OH	TBD	TBD	TBD	TBD	TBD	1	1	14232	TP		TBI
US	MRO	-	AC	230	230	82-W, 520-		Belfield (BN)	Rhame, ND (New)	74	OH	Н	S	1272	ACSR	1	1	1	1307 E		C	
US	MRO MRO	-	AC AC	230 345	230 345	82-W, 520- 1425		Williston (WN) Gardner Park	Tioga (TGA) Highway 22	50 55	OH	H P	S	1272 1113	ACSR ACSR	1 2	1	1	1307 E	EPC TCLLC	0	
US	MRO	-	AC	345	345	1425		Morgan	Highway 22 Highway 22	27	OH	P	S	1113	ACSR	2	1	1		TCLLC	0	
US	MRO	-	AC	345	345	1425		Werner West	Highway 22	24	OH	P	S	1113	ACSR	2	1	1	659 A	TCLLC	0	10
US	MRO	-	AC	345	345	1348		Paddock	Rockdale	30.3	OH	P,T,H	S,W	2156	ACSR	1	2	2		TCLLC	0	10
US	MRO MRO	-	AC AC	230 230	345 345	TBD TBD	11/01/10	Canby Sub	Granite Falls Sub	45 16	OH	TBD TBD	TBD TBD	TBD TBD	TBD TBD	TBD TBD	1	1	14232 C		!	TBI
US	MRO	-	AC AC	230 345	345 345	1195	12/01/11	Johnson Junction Salem	Morris Sub Hazleton	75		IBD	S	T2-477	ACSR	2	2	2		TC Midwest		I 181 I 10
US	MRO	-	AC	230	230	470	07/01/12	Grand Rapids (Cohasse		68	OH	Н	W	954	ACSR	1	1	1	######## N	IP,MPC,OTP,GRE	I,C,I,C	: !
US	MRO	-	AC	230	345	TBD	07/01/12	Wilton Sub	Boswell Sub	68	OH	TBD	TBD	TBD	TBD	TBD	1	1	14232	TP		I TBI

					,	,															
US	MRO	-	AC	230	345	TBD			Johnson Junction	25	OH	TBD	TBD	TBD	TBD	TBD		1	14232 OTP		TBE
US	MRO	-	AC	345	345	1195	06/01/13		West Middleton	21	OH	P	S	1113	ACSR	2	1	1	659 ATCLLC	0	100
US	MRO	-	AC	230	230			Hilltop (MN)	Arrowhead (MN)	9	OH			954	ACSR				12647 MP	l l	100
US	MRO	-	AC	345	345	TBD			Hampton Corners 345 k		OH		TBD	TBD	TBD	TBD	1	1	14232 OTP	- 1	TBI
US	MRO	-	AC	230	230	82-W, 520	12/31/15	Broadland (BD)	Storla (ST)	40	OH		S	1272	ACSR	1	1	1	1307 BEPC	С	10
US	MRO		AC	345	345	TBD	12/31/15	Maple River 345 kV Sub	Monticello 345 kV Sub	250	OH		TBD	TBD	TBD	TBD	1	1	14232 OTP		TBI
US	MRO	-	AC	345				Brookings, SD	Twin Cities, MN	230	OH								3519 Central MN Municipal Power	M	5
US	MRO	-	AC	345	345	2066		Franklin	Helena	67	OH	been deter	been deter	795	ACSS	2	2	2	*CAPX2020 ownership has y		en determine
US	MRO	-	AC	345	345	2066		Helena	Lake Marion	16	OH	been deter	been deter	795	ACSS	2	1	1	*CAPX2020 ownership has y		en determine
US	MRO	-	AC	345	345	2066		Lake Marion	Hampton Corner	18	OH	been deter	been deter	795	ACSS	2	1	1	*CAPX2020 ownership has y		en determine
US	MRO		AC	345	345	2066		Maple River	Alexandria	110.8	OH			795	ACSS	2	1	1	*CAPX2020 ownership has y		en determine
US	MRO		AC	345	345	2066		Alexandria	Waite Park	64.5	OH	been deter		795	ACSS	2	1	1	*CAPX2020 ownership has y		en determine
US	MRO		AC	345	345	2066	 	Waite Park	Monticello	27.9	OH			795	ACSS	2			*CAPX2020 ownership has y		
		-					1										!_	1			en determine
US	MRO	-	AC	345	345	2066		Hampton Corner	North Rochester	46.6	OH				ACSS	2	1		*CAPX2020 ownership has y		en determine
US	MRO	-	AC	345	345	2066		North Rochester	North Lacrosse	80	OH			795	ACSS	2	1	1	*CAPX2020 ownership has ye		en determine
US	MRO	-	AC	345	345	2066		Brookings County	Lyon County	49	ОН		been deter	795	ACSS	2	1	1	*CAPX2020 ownership has y	I	en determine
US	MRO	-	AC	345	345	2066		Lyon County	Hazel	23	ОН			795	ACSS	2	1	1	*CAPX2020 ownership has ye		en determine
US	MRO	-	AC	230	230**	620		Hazel	Minn Valley	8	OH	been deter	been deter	795	ACSS	1	1	1	*CAPX2020 ownership has ye	1	en determine
US	MRO	-	AC	345	345	2066		Lyon County	Franklin	44	ОН	been deter	been deter	795	ACSS	2	2	2	*CAPX2020 ownership has y		en determine
US	NPCC	New England	AC	345	345	2154	09/01/08	West Amesbury S/S	394 Tap	0.1	ОН	Pole		2-1590	ACSR	2	1	1	13433 NEP		
US		New England	AC	345	345	520	12/01/08		K Street S/S	15.4	ÜG	UG	N/A	3000/2500		N/A	N/A	N/A	1998 NSTAR Electric		
US		New England	AC	345	345	2172		Wakefield Jct.	339 Tap	0.1	OH	Pole		2-1590		2	1	1	13433 NEP	i	
US		New England	AC	345	345	2038		Scovill Rock S/S	Chestnut Jct.	2.6	OH	Pole	S	2-1590	ACSR	2	2	2	4176 CL&P		
US		New England	AC	345	345	2038		Black Pond Jct.	Beseck S/S	2.8	OH		S	2-1590	ACSR	2	2	2	4176 CL&P		
US	NPCC	New England	AC	345	345	2038		Black Pond Jct.	Beseck S/S	2.8	OH		S	2-1590	ACSR	2	2	2	4176 CL&P	l l	
US	NPCC	New England	AC	345	345	2038	12/01/09	Oxbow Jct.	Beseck S/S	8	OH	Pole	S	2-1590	ACSR	2	2	2	4176 CL&P	I	
				l			1		CL&P/UI Border	1 1		1		1		J		1 1			
US	NPCC	New England	AC	345	345	600	12/01/09	East Devon S/S	(of Singer-E.Devon)	2.4	UG	UG	N/A	3000	XLPE	N/A	N/A	N/A	4176 CL&P		0.3
				1	1	1			CL&P/UI Border												
US	NPCC	New England	AC	345	345	600	12/01/09	East Devon S/S	(of Singer-E.Devon)	2.4	UG	UG	N/A	3000	XLPE	N/A	N/A	N/A	4176 CL&P	1	0.3
				· · · · · ·	T				CL&P/UI Border	1		1						1	-		0.0
US	NPCC	New England	AC	345	345	600	12/01/09	Singer S/S	(of Singer-E.Devon)	5.6	UG	UG	N/A	3000	XLPE	N/A	N/A	N/A	19497 UI	1	0.7
30	00	Lingiand		540	575	300	.2,51,05	go: 0,0	CL&P/UI Border	5.0	- 55	30	//	5500	ALI L		/			- '	0.1
US	NPCC	Now Englan	AC	345	345	600	12/04/00	Singer S/S		E 0	UG	UG	NI/A	3000	XLPE	N/A	N/A	N/A	19497 UI		0.7
- 00		New England					12/01/09	Singer S/S	(of Singer-E.Devon)	5.6			N/A				1477			!	0.1
US	NPCC	New England	AC	345	345	600		Norwalk S/S	Singer S/S	15.4	UG		N/A	3000	XLPE	N/A	N/A	N/A	4176 CL&P		,
US		New England	AC	345	345	600		Norwalk S/S	Singer S/S	15.4	UG	UG	N/A	3000	XLPE	N/A	N/A	N/A	4176 CL&P		
US	NPCC	New England	AC	345	345	2038	12/01/09	Beseck S/S	East Devon	33.4	OH	Pole	S	2-1590	ACSR	2	2	2	4176 CL&P	1	•
US	NPCC	New England	AC	345	345	TBD	06/01/11	Vernon S/S	Newfane S/S	18	OH	Pole	TBD	954	ACSR	2	1	1	19899 VELCO	1	1
US	NPCC	New England	AC	345	345	TBD	06/01/11	Newfane S/S	Coolidge S/S	35	OH		TBD	954	ACSR	2	1	1	19899 VELCO		
US	NPCC	New England	AC	345	345	2172		West Farnum S/S	CT/RI Border	17.7	OH	TBD	S	2-1590	ACSR	2	1	1	13433 NEP	1	
US		New England	AC	345	345	2172		Millbury S/S	West Farnum S/S	20.7	OH	TBD	S	2-1590	ACSR	2	1	1	13433 NFP	i	
US		New England	AC	345	345	1545	07/01/12		West Farnum S/S	21.4	OH	TBD	S	2-954	ACSR	2	1	1	13433 NEP	i	
US			AC	230	230	496	12/01/15		Middlesex S/S	16	OH	Pole	TBD	954		1		1	19899 VELCO		
	NPCC	New England					12/01/15	Granite S/S							ACSR		TDD				
US		New England	AC	345	345	TBD	1	Carver S/S	Bridgewater S/S	6.8	OH		TBD	2-1703	TBD	TBD	TBD	TBD	1998 NSTAR Electric		
US		New England	AC	345	345	TBD		Pilgrim S/S	Carver S/S	10	OH	TBD	TBD	2-1703	TBD	TBD	TBD	TBD	1998 NSTAR Electric		1
US		New England	AC	345	345	TBD		Card S/S	Lake Road S/S	TBD	OH	TBD	TBD	TBD	TBD	TBD	TBD	TBD	4176 CL&P	1	•
US	NPCC	New England	AC	345	345	TBD		Lake Road S/S	CT/RI Border	TBD	OH	TBD	TBD	TBD	TBD	TBD	TBD	TBD	4176 CL&P	1	1
US		New England	AC	345	345	TBD		Frost Bridge S/S	North Bloomfield S/S	TBD	ОН	TBD	TBD	TBD	TBD	TBD	TBD	TBD	4176 CL&P		
US	NPCC	New England	AC	345	345	TBD		North Bloomfield S/S	CT/MA Border	TBD	OH		TBD	TBD	TBD	TBD	TBD	TBD	4176 CL&P		
US	NPCC	New England	AC	345	345	TBD		Agawam S/S	CT/MA Border	TBD	OH		TBD	TBD	TBD	TBD	TBD	TBD	20455 WMECO	ì	
US	NPCC	New England	AC	345	345	TBD		Agawam S/S	Ludlow S/S	TBD	OH	TBD	TBD	TBD	TBD	TBD	TBD	TBD	20455 WMECO	i	
US		New England	AC	345	345	TBD		MPRP	Surowiec	TBD	TBD		TBD	TBD	TBD	TBD	TBD	TBD	3266 CMP		
US	NPCC		AC	345	345	872	1		Sherman Creek	100	UG	100	טטו	2000	CU	טטו	1	100	4226 ConEd		
		New York					04/00/00	Sprain Brook		10		D-1-	Ctr -1					-			3.00
US	RFC		AC	345 kV	345 kV	1219	01/08/08	Tower LH001	Stone Lake	57.86	OH	Pole	Steel	954	ACSR	2	1	1	ATCLLC		100
US	RFC	-	AC	345 kV	345 kV	1219		Tower LH001	Arrowhead	20.94	OH	Pole	Steel	1272	ACSR	2	11	1	ATCLLC		100
US	RFC	-	AC	345 kV	345 kV	1236	04/09/08		Titabawassee	11.67	OH	Tower	Steel	1431	ACSR	2	2	2	METC	- 1	100
US	RFC		AC	345 kV	345 kV	1236	04/09/08		Nelson Rd	46.98	ОН	Tower	Steel	1431	ACSR	2	2	2	METC		100
US	RFC	-	AC	138 kV	230 kV	345	05/09/08	Keystone	Clearwater	23.23	OH	Tower	Steel	954	ACSS	1	1	1	METC	- 1	100
US	RFC	- 1	AC	138 kV	230 kV	345	05/10/08	Almeda	Saginaw River	25.09	ОН	Pole	Steel	954	ACSR	1	1	2	METC	I	100
US	RFC	-	AC	345 kV	345 kV	700	05/10/08		Troy	13.9	OH & L		Steel	2500	XLPE	2	2	2	ITCT	1	100
US	RFC	1 - 1	AC	138 kV	230 kV	345	05/11/08		Cedar Spring Jct	2.41	OH		Steel	954	ACSR	1	1	2	METC	i	100
US	RFC	1 . +	AC	138 kV	230 kV	345	05/11/08		Cedar Spring Jct	15.51	OH		Steel	954	ACSR	1	1	2	METC	i	100
US	RFC	+	AC	345 kV	345 kV	1409	06/08/08		Roberts	5.6	OH	Tower	Steel	954	ACSR	2	- 1	2	4062 AEP		100
		-								5.6						POUD F				!	100
US			AC	345 kV	345 kV	1195	06/08/08		West Loop	2	UG			954	ACSR	DOUBLE	2	2	4110 CE		
	RFC	+	AC	230 kV	230 kV	264	06/08/08	Sourth Akron	Berks	12	OH	H-FRAME	STEEL	954	ACSR	DOUBLE	2	2	14715 PPL		
US	RFC	-						Remen	Leonia	1 3	UG	1	l l	2000				1	15477 PSEG	I	
US	RFC RFC	-	AC	230 kV	230 kV	366	06/08/08			-											
US US US	RFC RFC RFC		AC AC	230 kV	230 kV	878	06/08/08	Branchburg	Flagtown	4	OH			1590	ACSS				15477 PSEG		
US US US US	RFC RFC RFC		AC AC AC	230 kV 345 kV	230 kV 345 kV		06/08/08 06/08/08	Branchburg Taylor		4	UG		STEEL	1590 954	ACSS ACSR	DOUBLE	2	2	15477 PSEG 4110 CE	I I	
US US US	RFC RFC RFC		AC AC	230 kV	230 kV	878	06/08/08	Branchburg Taylor	Flagtown	4 3 15			STEEL			DOUBLE	2	2			100
US US US	RFC RFC RFC		AC AC AC	230 kV 345 kV	230 kV 345 kV	878	06/08/08 06/08/08	Branchburg Taylor	Flagtown West Loop	4 3 15 7.2	UG		STEEL			DOUBLE	2	2	4110 CE		100
US US US US US	RFC RFC RFC RFC RFC		AC AC AC AC	230 kV 345 kV 230 kV 345 kV	230 kV 345 kV 230 kV	878	06/08/08 06/08/08 06/09/08 06/09/08	Branchburg Taylor Doubs	Flagtown West Loop Monocacy	.0	UG OH		STEEL			DOUBLE	2	2	4110 CE AP 5487 DLCO		100
US US US US US US US US US	RFC RFC RFC RFC RFC RFC	-	AC AC AC AC AC	230 kV 345 kV 230 kV 345 kV 345 kV	230 kV 345 kV 230 kV 345 kV 345 kV	878	06/08/08 06/08/08 06/09/08 06/09/08 06/09/08	Branchburg Taylor Doubs Collier Brunot Island	Flagtown West Loop Monocacy Brunot Island Arsenal	7.2 6.4	OH OH UG		STEEL			DOUBLE	2	2	4110 CE AP 5487 DLCO 5487 DLCO		100
US	RFC RFC RFC RFC RFC RFC RFC RFC		AC AC AC AC AC AC	230 kV 345 kV 230 kV 345 kV 345 kV 500kV	230 kV 345 kV 230 kV 345 kV 345 kV 500kV	878 1195	06/08/08 06/08/08 06/09/08 06/09/08 06/09/08 06/10/08	Branchburg Taylor Doubs Collier Brunot Island Prexy	Flagtown West Loop Monocacy Brunot Island Arsenal 502 Junction	7.2 6.4 40	UG OH OH UG OH			954	ACSR				4110 CE AP 5487 DLCO 5487 DLCO AP		100 100 100
US	RFC RFC RFC RFC RFC RFC RFC RFC	-	AC AC AC AC AC AC AC	230 kV 345 kV 230 kV 345 kV 345 kV 500kV 345 kV	230 kV 345 kV 230 kV 345 kV 345 kV 500kV 345 kV	878	06/08/08 06/08/08 06/09/08 06/09/08 06/09/08 06/10/08	Branchburg Taylor Doubs Collier Brunot Island Prexy Paddock	Flagtown West Loop Monocacy Brunot Island Arsenal 502 Junction Rockdale	7.2 6.4 40 30.3	UG OH OH UG OH	le,Tower,H				DOUBLE 1	2	2	4110 CE AP 5487 DLCO 5487 DLCO AP ATCLLC		100 100 100 100
US	RFC RFC RFC RFC RFC RFC RFC RFC RFC		AC	230 kV 345 kV 230 kV 345 kV 345 kV 500kV 345 kV 345 kV	230 kV 345 kV 230 kV 345 kV 345 kV 500kV 345 kV	878 1195 1348	06/08/08 06/08/08 06/09/08 06/09/08 06/09/08 06/10/08 06/10/08	Branchburg Taylor Doubs Collier Brunot Island Prexy Paddock Arsenal	Flagtown West Loop Monocacy Brunot Island Arsenal 502 Junction Rockdale Logans Ferry	7.2 6.4 40 30.3	UG OH OH UG OH OH UG/OR	le,Tower,H	Steel	954 2156	ACSR	1		2	4110 CE AP 5487 DLCO 5487 DLCO AP ATCLLC 5487 DLCO		10 10 10 10 10
US	RFC RFC RFC RFC RFC RFC RFC RFC RFC RFC		AC	230 kV 345 kV 230 kV 345 kV 345 kV 500kV 345 kV 345 kV	230 kV 345 kV 230 kV 345 kV 345 kV 500kV 345 kV 345 kV 230 kV	878 1195 1348 345	06/08/08 06/08/08 06/09/08 06/09/08 06/09/08 06/10/08 06/10/08 06/10/08	Branchburg Taylor Doubs Collier Brunot Island Prexy Paddock Arsenal Edenville	Flagtown West Loop Monocacy Brunot Island Arsenal 502 Junction Rockdale Logans Ferry Warren	7.2 6.4 40 30.3 12	UG OH UG OH OH UG/OH	le,Tower,H H	Steel	954 2156 954	ACSR ACSR ACSR	1	2	2	4110 CE AP 5487 DLCO 5487 DLCO AP ATCLLC 5487 DLCO METC		10 10 10 10 10 10
US U	RFC RFC RFC RFC RFC RFC RFC RFC RFC RFC		AC	230 kV 345 kV 230 kV 345 kV 345 kV 500kV 345 kV 345 kV 345 kV	230 kV 345 kV 230 kV 345 kV 345 kV 500kV 345 kV 345 kV 230 kV 345 kV	1348 345 1238	06/08/08 06/08/08 06/09/08 06/09/08 06/10/08 06/10/08 06/10/08 06/10/08	Branchburg Taylor Doubs Collier Brunot Island Prexy Paddock Arsenal Edenville Argenta	Flagtown West Loop Monocacy Brunot Island Arsenal 502 Junction Rockdale Logans Ferry Warren Palisades 1	7.2 6.4 40 30.3 12 14.8 40.05	UG OH UG OH OH OH OH OH OH OH	le,Tower,H H Pole Tower	Steel Steel Steel	954 2156 954 2156	ACSR ACSR ACSR ACSR ACSR	1 1 2	2 1 2	2 2 2	4110 CE AP AP 5487 DLCO 5487 DLCO 5487 DLCO AP ATCLLC 5487 DLCO METC METC		10 10 10 10 10 10 10
US	RFC RFC RFC RFC RFC RFC RFC RFC RFC RFC		AC A	230 kV 345 kV 230 kV 345 kV 345 kV 500kV 345 kV 138 kV 138 kV 345 kV	230 kV 345 kV 230 kV 345 kV 345 kV 500kV 345 kV 230 kV 230 kV 345 kV	878 1195 1348 345	06/08/08 06/08/08 06/09/08 06/09/08 06/09/08 06/10/08 06/10/08 06/10/08 06/10/08 06/10/08	Branchburg Taylor Doubs Collier Brunot Island Prexy Paddock Arsenal Edenville Argenta	Flagtown West Loop Monocacy Brunot Island Arsenal 502 Junction Rockdale Logans Ferry Warren Palisades 1 Palisades 2	7.2 6.4 40 30.3 12 14.8 40.05 40.05	UG OH UG OH OH OH OH OH OH OH OH	le,Tower,H H	Steel	954 2156 954	ACSR ACSR ACSR	1	2	2	4110 CE AP 5487 DLCO 5487 DLCO 5487 DLCO ATCLLC 5487 DLCO METC METC METC METC		10 10 10 10 10 10 10 10 10
US U	RFC RFC RFC RFC RFC RFC RFC RFC RFC RFC		AC	230 kV 345 kV 230 kV 345 kV 345 kV 500kV 345 kV 345 kV 345 kV	230 kV 345 kV 230 kV 345 kV 345 kV 500kV 345 kV 345 kV 230 kV 345 kV	1348 345 1238	06/08/08 06/08/08 06/09/08 06/09/08 06/10/08 06/10/08 06/10/08 06/10/08	Branchburg Taylor Doubs Collier Brunot Island Prexy Paddock Arsenal Edenville Argenta	Flagtown West Loop Monocacy Brunot Island Arsenal 502 Junction Rockdale Logans Ferry Warren Palisades 1	7.2 6.4 40 30.3 12 14.8 40.05	UG OH UG OH OH OH OH OH OH OH	le,Tower,H H Pole Tower	Steel Steel Steel	954 2156 954 2156	ACSR ACSR ACSR ACSR ACSR	1 1 2	2 1 2	2 2 2	4110 CE AP AP 5487 DLCO 5487 DLCO 5487 DLCO AP ATCLLC 5487 DLCO METC METC		10 10 10 10 10 10 10 10 10
US	RFC RFC RFC RFC RFC RFC RFC RFC RFC RFC		AC A	230 kV 345 kV 230 kV 345 kV 345 kV 500kV 345 kV 138 kV 138 kV 345 kV	230 kV 345 kV 230 kV 345 kV 345 kV 500kV 345 kV 345 kV 345 kV 345 kV 345 kV 345 kV 345 kV	1348 345 1238	06/08/08 06/08/08 06/09/08 06/09/08 06/09/08 06/10/08 06/10/08 06/10/08 06/10/08 06/10/08 06/10/08	Branchburg Taylor Doubs Collier Brunot Island Prexy Paddock Arsenal Edenville Argenta Argenta Meadowbrook	Flagtown West Loop Monocacy Brunot Island Arsenal 502 Junction Rockdale Logans Ferry Warren Palisades 1 Palisades 2 Loudon	7.2 6.4 40 30.3 12 14.8 40.05 40.05	UG OH UG OH OH OH OH OH OH OH OH	le,Tower,H H Pole Tower	Steel Steel Steel	954 2156 954 2156	ACSR ACSR ACSR ACSR ACSR	1 1 2	2 1 2	2 2 2	4110 CE AP 5487 DLCO 5487 DLCO 5487 DLCO ATCLLC 5487 DLCO METC METC METC METC		100 100 100 100 100 100 100 100 100
US	RFC RFC RFC RFC RFC RFC RFC RFC RFC RFC		AC A	230 kV 345 kV 230 kV 345 kV 345 kV 500kV 345 kV 345 kV 345 kV 345 kV 345 kV 500kV 500kV	230 kV 345 kV 230 kV 345 kV 345 kV 345 kV 345 kV 230 kV 345 kV 345 kV 500kV 500kV	1348 345 1238	06/08/08 06/08/08 06/09/08 06/09/08 06/09/08 06/10/08 06/10/08 06/10/08 06/10/08 06/10/08 06/11/08 06/11/08	Branchburg Taylor Doubs Collier Brunot Island Prexy Paddock Arsenal Edenville Argenta Argenta Meadowbrook Mt. Storm	Flagtown West Loop Monocacy Brunot Island Arsenal 502 Junction Rockdale Logans Ferry Warren Palisades 1 Palisades 2	7.2 6.4 40 30.3 12 14.8 40.05 40.05 80 70	UG OH UG OH OH OH OH OH OH OH OH OH	le,Tower,H H Pole Tower Tower	Steel Steel Steel	954 2156 954 2156	ACSR ACSR ACSR ACSR ACSR	1 1 2	2 1 2	2 2 2	4110 CE AP AP 5487 DLCO 5487 DLCO AP ATCLLC 5487 DLCO METC METC METC AP AP ARTALEC METC AP AP		100 100 100 100 100 100 100 100 100 100
US	RFC RFC RFC RFC RFC RFC RFC RFC RFC RFC		AC A	230 kV 345 kV 230 kV 345 kV 345 kV 500kV 345 kV 138 kV 345 kV 345 kV 500kV 500kV	230 kV 345 kV 230 kV 345 kV 345 kV 345 kV 345 kV 230 kV 345 kV 345 kV 500kV 500kV	1348 345 1238 1238	06/08/08 06/08/08 06/09/08 06/09/08 06/09/08 06/10/08 06/10/08 06/10/08 06/10/08 06/11/08 06/11/08	Branchburg Taylor Doubs Collier Brunot Island Prexy Paddock Arsenal Edenville Argenta Argenta Meadowbrook Mt. Storm Mt. Storm	Flagtown West Loop Monocacy Brunot Island Arsenal 502 Junction Rockdale Logans Ferry Warren Palisades 1 Palisades 2 Loudon 502 Junction Meadowbrook	7.2 6.4 40 30.3 12 14.8 40.05 40.05	UG OH OH UG OH OH OH OH OH OH OH OH OH	le,Tower,H H Pole Tower Tower	Steel Steel Steel	954 2156 954 2156 2156	ACSR ACSR ACSR ACSR ACSR	1 2 2 2	2 1 2	2 2 2	4110 CE		100
US U	RFC RFC RFC RFC RFC RFC RFC RFC RFC RFC		AC A	230 kV 345 kV 230 kV 345 kV 345 kV 500kV 345 kV 345 kV 345 kV 345 kV 345 kV 500kV 500kV	230 kV 345 kV 230 kV 345 kV 345 kV 345 kV 345 kV 230 kV 345 kV 345 kV 500kV 500kV	1348 345 1238 1238	06/08/08 06/08/08 06/09/08 06/09/08 06/09/08 06/10/08 06/10/08 06/10/08 06/10/08 06/10/08 06/11/08 06/11/08	Branchburg Taylor Doubs Collier Brunot Island Prexy Paddock Arsenal Edenville Argenta Argenta Meadowbrook Mt. Storm Mt. Storm	Flagtown West Loop Monocacy Brunot Island Arsenal 502 Junction Rodon Ferry Warren Palisades 1 Palisades 2 Loudon Loudon Flagtor For Warren Palisades 502 Junction	7.2 6.4 40 30.3 12 14.8 40.05 40.05 80 70	UG OH UG OH OH OH OH OH OH OH OH OH	le,Tower,H H Pole Tower Tower	Steel Steel Steel Steel Steel	954 2156 954 2156	ACSR ACSR ACSR ACSR ACSR	1 1 2	2 1 2	2 2 2	4110 CE AP 5487 DLCO 5487 DLCO 5487 DLCO ATCLLC AP ATCLLC METC METC AP AP AP AP		10 10 10 10 10 10 10 10 10 10 10

US	RFC	-	AC	500kV	500kV	3005	06/12/08 Roseland	Montville	7.3									15477 PSEG		
US	RFC	-	AC AC	500kV	500kV	3005	06/12/08 Montville	Jefferson	15.1									15477 PSEG		
US	RFC RFC	-	AC	500kV 345 kV	500kV 345 kV	3005	06/12/08 Jefferson 06/12/08 Brunot Island	Bushkill	22.3									15477 PSEG 5487 DLCO	- !	100
US	RFC	-	AC	345 kV	345 kV		06/12/08 Brunot Island 06/12/08 Brady	Brady Carson	1.5									5487 DLCO 5487 DLCO		100
US	RFC		AC	345 kV	345 kV	1195	06/13/08 Rockdale	West Middleton	21		Pole	Steel	1113	ACSR	2	1	- 1	ATCLLC		100
US	RFC	_	AC	230 kV	230 kV	1133	06/13/08 Possum Point	Burches Hill	3		1 010	Older	1110	AOOK		-		15270 PEPCO	1	100
US	RFC	-	710	500kV	500kV		06/13/08 Burches Hill	Chalk Point	19.43									15270 PEPCO	i	-
US	RFC	-		500kV	500kV		06/13/08 Chalk Point	Calvert Cliffs	18.8									15270 PEPCO	i	
US	RFC	-	AC	500kV	500kV	3005	06/13/08 Hope Creek	Cedar Creek	12	OH								15477 PSEG	1	
US	RFC	-	AC	138 kV	230 kV	345	12/09/08 Simpson	Batavia	22		Tower	Steel	954	ACSS	1	1	1	METC	ı	100
US	RFC	-	AC	138 kV	230 kV	345	12/09/08 Croton	Felch	8.83	OH	Pole	Steel	954	ACSR	1	1	2	METC	1	100
US	RFC	-	AC	345 kV	345 kV	1757	12/09/08 Goodison	Belle River	35.2	OH	Tower	Steel	954	ACSR	2	2	2	ITCT	I	100
US	RFC	-	AC	345 kV	345 kV	1757	12/09/08 Goodison	Pontiac	6.3		Tower	Steel	954	ACSR	2	2	2	ITCT	- 1	100
US	RFC	-	AC	345 kV	345 kV	1425	12/10/08 Gardner Park	Highway 22	55		Pole	Steel	1113	ACSR	2	1	1	ATCLLC		100
US	RFC	-	AC	345 kV	345 kV	1425	12/10/08 Morgan	Highway 22	27	OH	Pole	Steel	1113	ACSR	2	1	1	ATCLLC		100
US	RFC	-	AC	345 kV	345 kV	1425	12/10/08 Werner West	Highway 22	24		Pole	Steel	1113	ACSR	2	1	1	ATCLLC		100
US	RFC RFC	-	AC	138 kV 345 kV	230 kV 345 kV	345 1400	12/10/08 Tippy 12/10/08 Gibson	Chase	29.83		Pole	Steel	954 954	ACSR ACSR	1 2	1	2	METC		100 100
US	RFC	-	AC AC	345 KV	345 kV	1380/1646	12/10/08 Gibson 12/10/08 Chamberlin	Brown Hanna	34 26		ole, H-Fram Pole	Steel	954 954	ACSR	2 per phase	0	2	17633 Vectren (SIGE)	- !	100
US	RFC		AC	345 kV	345 kV	1380/1646	12/10/08 Hanna	Mansfield	52		Pole	Steel	954	ACSR	2 per phase	0	2	FE		100
US	RFC	_	AC	345 kV	345 kV	1400	12/10/08 Reid	Brown	24.5		ble. H-Fram	Steel	954	ACSR	2	1	1	17633 Vectren (SIGE)	- 1	100
US	RFC	-	AC	500kV	500kV	2800/3600	12/11/08 Cranberry	Cabot	40		Tower	Steel	954	ACSR	4 per phase	0	1	FF FF	i	100
US	RFC	-	AC	500kV	500kV	2800/3600	12/11/08 Cranberry	Wylie Ridge	40		Tower	Steel	954	ACSR	4 per phase	0	1	FE	i	100
US	RFC	-	AC	500kV	500kV	1828	12/12/08 Calvert Cliffs	Vienna	35	OH								5027/1527(DPL/PEPCO	i	
US	RFC	-	AC	500kV	500kV	1828	12/12/08 Vienna	Indian River	35.1	OH								5027 DPL	1	
US	RFC	-	AC	500kV	500kV	1828	12/14/08 Indian River	Salem	80			-						5027 DPL	T I	
US	SERC	Central	AC	345	345	535	02/29/08 Hardin Co.	Smith OMU	-66		H-frame	wood	954	ACSR	Double	1	2	10171 E.ON U.S. Services Inc. for L	IOU	100
US	SERC	Central	AC	345	345	535	02/29/08 Hardin Co.	Daviess Co.	59		H-frame	wood	954	ACSR	Double	1	2	10171 E.ON U.S. Services Inc. for L	IOU	100
US	SERC	Central	AC	345	345	535	02/29/08 Smith OMU	Daviess Co.	. 7	OH	H-frame	wood	954	ACSR	Double	1	2	10171 E.ON U.S. Services Inc. for L	IOU	100
US	SERC	VACAR	AC	230	230	796	05/01/08 Brambleton	Greenway (DEC)	11	011	single pole	steel	636	ACSR	Double	1	2	19876 Virginia Electric and Power C	IOU	100
US	SERC	VACAR VACAR	AC AC	230	230	956 600	05/01/08 Bennettsville 05/01/08 Clarendon	Bennettsville (PEC) Rosslyn	2	UG	Unknown	Unknown	1272 2500	ACSR	Double Single	1	1	17543 South Carolina Public Service 19876 Virginia Electric and Power C	Federal/State	100
US	SERC	Gateway	AC	345	345	1793	06/01/08 Loose Creek	Mariosa Delta	11		H-frame	wood	2500 954	Copper	Double	1	1	Ameren	IOU	100
US	SERC	Southeastern	AC	230	230	602	06/01/08 Dawson Crossing	Palmer Creek	4		H-frame	steel	1351	ACSR	Single	1	1	Georgia Power Company	IOU	100
US		Southeastern	AC	230	230	602	06/01/08 Klondike	Jackson Creek	4	OH	single pole		1351	ACSR	Single	1	1	7197 Georgia Transmission Corpor	Cooperative	100
US	SERC	VACAR	AC	230	230	1195	06/01/08 Norlake	Falls	8	OH	H-frame	steel	1590	ACSR	Double	0	1	Progress Energy Carolinas	IOU	100
US	SERC	VACAR	AC	230	230	956	06/01/08 Cross	Aiken	88		single pole	steel	1272	ACSR	Double	1	1	17543 South Carolina Public Service	Federal/State	100
US	SERC	Southeastern	AC	230	230	602	06/01/08 Braselton	Sharon Church	3	OH	single pole	concrete	1351	ACSR	Single	1	1	7197 Georgia Transmission Corpor	Cooperative	100
US		Southeastern	AC	230	230	602	06/01/08 Homeland	Kettle Creek	36		single pole	steel	1351	ACSR	Single	1	1	Georgia Power Company	IOU	100
US	SERC	Central	AC	500	500	2598	06/02/08 Cumberland	Montgomery	40	OH	tower	steel	954	ACSR	Triple	1	1	18642 Tennessee Valley Authority	Federal/State	100
US	SERC	Gateway	AC	345	345	1195	10/01/08 Joachim Substation	Tyson Substation	0	OH	single pole	steel	954	Other	Double	1	2	Ameren	IOU	100
US	SERC	Gateway	AC	345	345	1200	10/01/08 Rush Island Plant	Joachim Substation	0	OH	single pole	steel	954	Other	Double	1	2	Ameren	IOU	100
US		Southeastern	AC	230	230	602	10/01/08 Camp Creek	Cliftondale	5	OH	single pole	concrete	1351	ACSR	Single	1	1	7197 Georgia Transmission Corpor	Cooperative	100
US		Southeastern	AC	230	230	602	12/01/08 Ellicott TS	West McIntosh	1	OH		Unknown	1351	ACSR	Single	1	1	Alabama Power Company	IOU	100
US	SERC		AC	230	230	956	01/01/09 Kingstree	Lake City	13		single pole		1272	ACSR	Double	1	1	17543 South Carolina Public Service	Federal/State	100
US	SERC	Central	AC	345	345	1195	03/30/09 Trimble County	Ghent-Speed Line	3	OH	tower	steel	954	ACSR	Double	2	2	10171 E.ON U.S. Services Inc. for L	IOU	100
US		Southeastern Southeastern	AC AC	230 230	230	502 865	04/01/09 Gaston 05/01/09 Calvert SS	Bessemer Tensaw SS	5	OH	Unknown Unknown	Unknown	1033 795	ACSR ACSR	Single Double	1	1	Alabama Power Company	IOU	100
US	SERC	VACAR	AC	230	230	950	05/01/09 Calvert SS 05/01/09 Denny Terrace	Pineland	8		single pole	steel	1272	ACSR	Double	1	1	Alabama Power Company South Carolina Electric & Gas	IOU	100
US	SERC	Central	AC	345	345	1195	05/31/09 Brown North	West Garrard	14		tower	steel	954	ACSR	Double	2	2	10171 E.ON U.S. Services Inc. for L	IOU	100
US	SERC	Central	AC	345	345	1195	05/31/09 Pineville	West Garrard	89	0	tower	steel	954	ACSR	Double	2	2	10171 E.ON U.S. Services Inc. for L	IOU	100
US		Southeastern	AC	230	230	866	06/01/09 McConnell Road	Woodlore	5	OH	single pole		795	ACSR	Double	1	1	7197 Georgia Transmission Corpor	Cooperative	100
US	SERC	VACAR	AC	230	230	1256	06/01/09 Rockingham	Wadesboro Bowman Sch	12	OH	H-frame	steel	1590	ACSR	Single	0	1	Progress Energy Carolinas	IOU	100
US	SERC	VACAR	AC	230	230	1047	06/01/09 Bristers	Gainesville	15	OH	tower	steel	636	ACSR	Double	1	2	19876 Virginia Electric and Power C	IOU	100
US		Southeastern	AC	230	500	1578	06/01/09 Bowen	Villa Rica	28		tower	steel	1113	ACSR	Triple	1	1	Georgia Power Company	IOU	100
US		Southeastern	AC	230	230	866	06/01/09 Woodlore	Battlefield	3		single pole	concrete	795	ACSR	Double	1	1	7197 Georgia Transmission Corpor	Cooperative	100
US		Southeastern	AC	230	230	865	08/01/09 Bucks SS	Tensaw SS	9		Unknown		795	ACSR	Double	1	1	Alabama Power Company	IOU	100
US		Southeastern	AC	230	230	866	11/01/09 Battlefield	Frey Road	3		single pole			ACSR	Double	1	1	7197 Georgia Transmission Corpor	Cooperative	100
US		Southeastern	AC	230	230	866	11/01/09 Frey Road	Huntsville	5		single pole		795	ACSR	Double	1	1	7197 Georgia Transmission Corpor	Cooperative	100
US	SERC	VACAR	AC	230	230	797	11/01/09 Chickahominy	Old Church	16	OH	tower	steel	636	ACSR	Double	1	2	19876 Virginia Electric and Power C	IOU	100
US	SERC	Central	AC AC	345 230	345 230	1947 602	12/01/09 J.K. Smith 12/01/09 Bethabara	West Garrard County Clarksboro	33 15		H-frame	steel	954 1 1351	ACSR ACSR	Double	2	2	5580 East Kentucky Power Cooper	Cooperative	100
US	SERC	Southeastern Central	AC AC	345	345	1195	12/01/09 Bethabara 12/30/09 Mill Creek	Hardin County	15 42		single pole: tower	ombinatioi steel	954	ACSR	Single Double	1	2	7197 Georgia Transmission Corpor 10171 E.ON U.S. Services Inc. for L	Cooperative	100
US	SERC	Central	AC AC	345 500	500	1195 1732	12/30/09 Mill Creek 04/30/10 Maury	Rutherford	42 27		tower	steel	954 954	ACSR	Triple	1	1	101/1 E.ON U.S. Services Inc. for L 18642 Tennessee Valley Authority	Federal/State	100
US	SERC	VACAR	AC	230	230	352	05/01/10 A M Williams	Mt Pleasant	17		H-frame	wood	795	ACSR	Single	1	1	South Carolina Electric & Gas	IOU	100
US	SERC	VACAR	AC	230	230	800	05/01/10 Hamilton	Pleasant View	12		single pole	steel	636	ACSR	Double	1	1	19876 Virginia Electric and Power C	IOU	100
US	SERC	VACAR	AC	230	230	797	05/01/10 Harrisonburg	Valley	11		tower	steel	636	ACSR	Double	1	2	19876 Virginia Electric and Power C	IOU	100
US	SERC	Delta	AC	230	230	884	06/01/10 Jacinto	Lewis Creek	29		single pole	steel	954	ACSR	Double	1	1	Entergy	IOU	100
US	SERC	Gateway	AC	345	345	1297	06/01/10 Baldwin Power Plant Su	Prairie State Power Plant	2	OH	single pole	steel	954	Other	Double	2	2	Ameren	IOU	100
US	SERC	Gateway	AC	345	345	1297		Prairie State Power Plant	8		single pole	steel	954	Other	Double	2	2	Ameren	IOU	100
US	SERC	Gateway	AC	345	345	1793		Rush Island Plant Substa	26		single pole	steel	954	Other	Double	1	1	Ameren	IOU	100
US	SERC	Gateway	AC	345	345	1195	06/01/10 Prairie State Power Plan		8		single pole	steel	954	Other	Double	2	2	Ameren	IOU	100
US	SERC	Gateway	AC	345	345	1195		W. Mount Vernon Substa	2	OH	single pole	steel	954	Other	Double	2	2	Ameren	IOU	100
US	SERC	Southeastern	AC AC	230 230	230	596	06/01/10 Dum Jon	Thomson Primary	23		H-frame	steel	1351	ACSR	Single	1	1	Georgia Power Company	IOU	100
US		Southeastern	AC AC		230	602	06/01/10 East Lake Road 06/01/10 East Lake Road	Jackson Creek	9	OH	single pole		1351	ACSR	Single	1 4	1	7197 Georgia Transmission Corpor	Cooperative	100 100
US		Southeastern Southeastern	AC AC	230	230 230	602 602	06/01/10 East Lake Road 06/01/10 Jim Moore Road	Ola Sharon Church	11			concrete	1351	ACSR ACSR	Single	1	1	7197 Georgia Transmission Corpor	Cooperative	100
US		Southeastern	AC	230 230	230	602	06/01/10 Jim Moore Road 06/01/10 Lansing Smith	Laguna Beach	11		single pole single pole	steel	1351	ACSR	Single Single	1	1	7197 Georgia Transmission Corpoi Gulf Power Company	Cooperative	100
US		Southeastern	AC	230	230	866	06/01/10 Pegamore	Huntsville	2		H-frame	steel	795	ACSR	Double	1	1	Georgia Power Company	IOU	100
US		Southeastern	AC	230	230	1205	06/01/10 Plant McDonough	Smyrna	6		single pole	steel	1351	ACSR	Double	2	2	Georgia Power Company	IOU	100
US		Southeastern	AC	500	500	3464	06/01/10 Thomson	Warthen	35		tower	steel	1113	ACSR	Triple	1	1	7197 Georgia Transmission Corpor	Cooperative	100
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US	SERC VACAR SERC VACAR	AC	230	230	628	06/01/10 Clinton	Lee	26		single pole	steel	1590	ACSR	Single	1	2	Progress Energy Carolinas	IOU	100
US		AC		230	722	06/01/10 Chickahom		14		tower	steel	721	Aluminum	Double	2	2	19876 Virginia Electric and Power C		100
US	SERC Central SERC VACAR	AC AC	230	230 230	265 566	10/01/10 Resaca 12/01/10 Asheville	Moss Lake		OH	single pole	steel	1351 1272	ACSR ACSR	Single	2	2	18642 Tennessee Valley Authority	Federal/State IOU	100
							Enka	- 5		tower				Single			Progress Energy Carolinas		
US	SERC Southeaster SERC Delta	r AC	230 345	230 345	502 954	04/01/11 Farley-Scho	z line Cottonwood TS GRDA	100	OH	Unknown H-frame	Unknown	1033 795	ACSR ACSR	Single	1	1	Alabama Power Company	IOU	100
						06/01/11 Chouteau		100			steel			Single	1		924 Associated Electric Cooperati	Cooperative	
US	SERC Southeaster SERC Southeaster	r AC	230	230	602	06/01/11 Cumming	Sharon Springs	10	OH	Unknown	Unknown	1351	ACSR	Single	1		7197 Georgia Transmission Corpoi	Cooperative	100
US			230	230	433	06/01/11 Deptford 06/01/11 Kiln	Kraft	13		single pole	steel	795 1351	ACSR	Single	1		Georgia Power Company	IOU	100
US	SERC Southeaster	r AC	230	230	602		Carriere SW	26		H-frame	concrete		ACSR	Single	1		Mississippi Power Company	IOU	100
US	SERC Southeaster	r AC	230	230	580	06/01/11 LPM-Monro			OH	single pole	steel	1351	ACSR	Single	1	1	13100 Municipal Electric Authority of	Municipal	100
US	SERC VACAR	AC	500	500	3450	06/01/11 Carson	Suffolk	50		tower	steel	1351	ACSR	Triple	1	1	19876 Virginia Electric and Power C	IOU	100
US	SERC VACAR	AC	230	230	1047	06/01/11 Suffolk	Thrasher	26		tower	steel	636	ACSR	Double	2	2	19876 Virginia Electric and Power C	IOU	100
US	SERC VACAR	AC	230	230	1047	06/01/11 Bristers	Garrisonville	13		tower	steel	636	ACSR	Double	2	2	19876 Virginia Electric and Power C	IOU	100
US	SERC Southeaster	r AC	230	230	602	06/01/11 Bethabara	East Walton	8	OH	single pole	combinatio	r 1351	ACSR	Single	1	1	7197 Georgia Transmission Corpor	Cooperative	100
US	SERC Southeaster	r AC	230	230	602	06/01/11 Bostwick	East Walton	4	OH		combinatio	r 1351	ACSR	Single	1	1	7197 Georgia Transmission Corpor	Cooperative	100
US	SERC Southeaster		230	230	602	06/01/11 East Walton	Jack's Creek	ç	OH		combinatio	r 1351	ACSR	Single	1	1	7197 Georgia Transmission Corpor	Cooperative	100
US	SERC Southeaster		500	500	3464	06/01/11 East Walton	Rockville	40		tower	steel	1113	ACSR	Triple	1	1	7197 Georgia Transmission Corpor	Cooperative	100
US	SERC Southeaster	r AC	230	230	602	06/01/11 Jack's Cree	Cornish Mountain	15		Unknown	Unknown	1351	ACSR	Single	1	1	7197 Georgia Transmission Corpor	Cooperative	100
US	SERC Southeaster	r AC	230	230	1205	06/01/11 Plant McDo	nough CC Plant McDonough (bla		OH	single pole	steel	1351	ACSR	Double	2	2	Georgia Power Company	IOU	100
US	SERC Southeaster	r AC	230	230	1205	06/01/11 Plant McDo	nough CC Plant McDonough (wh	ite) 1	OH	single pole	steel	1351	ACSR	Double	2	2	Georgia Power Company	IOU	100
US	SERC VACAR	AC	230	230	1195	06/01/11 Rockinghar	West End	38		H-frame	steel	1590	ACSR	Double	1	1	Progress Energy Carolinas	IOU	100
US	SERC VACAR	AC	230	230	628	06/01/11 Kinston Dul	ont Greenville	30	OH	single pole	steel	1590	ACSR	Single	0	1	Progress Energy Carolinas	IOU	100
US	SERC VACAR	AC	230	230	1195	06/01/11 Asheboro	Pleasant Garden	22	OH	single pole	steel	1590	ACSR	Double	1	1	Progress Energy Carolinas	IOU	100
US	SERC VACAR	AC	230	230	1195	06/01/11 Harris	RTP	22	OH	single pole	steel	1590	ACSR	Double	1	1	Progress Energy Carolinas	IOU	100
US	SERC VACAR	AC	230	230	1100	06/01/11 Pleasant G	rden Asheboro	20	OH	single pole	steel	1590	ACSR	Double	1	1	Duke Energy Carolinas	IOU	0
US	SERC VACAR	AC	230	230	1195	06/01/11 Rockinghar	Lilesville	14		H-frame	steel	1590	ACSR	Double	1	1	Progress Energy Carolinas	IOU	100
US	SERC VACAR	AC	500	500	3450	06/01/11 Loudoun	Mt Storm	100	OH	tower	steel	1351	ACSR	Triple	1	1	19876 Virginia Electric and Power C	IOU	100
US	SERC VACAR	AC	230	230	1047	04/01/12 Gainesville	Remington	25		tower	steel	636	ACSR	Double	2	2	19876 Virginia Electric and Power C	IOU	100
US	SERC VACAR	AC	230	230	950	05/01/12 Pepperhill	Summerville	7	OH	single pole	steel	1272	ACSR	Double	1	1	South Carolina Electric & Gas	IOU	100
US	SERC Delta	AC	230	230	884	06/01/12 Cypress	Jacinto	53		single pole	steel	954	ACSR	Double	1	1	Entergy	IOU	100
US	SERC Delta	AC	230	230	400	06/01/12 Franklin	Natches SES	51		indergroun	Unknown	1272	ACSR	Single	1	1	Entergy	IOU	100
US	SERC Southeaster	r AC	230	230	602	06/01/12 Laguna Bea		22		single pole	steel	1351	ACSR	Single	1	1	Gulf Power Company	IOU	100
US	SERC VACAR	AC	230	230	1047	06/01/12 Elizabeth C		10		tower	steel	636	ACSR	Double	1	2	19876 Virginia Electric and Power C	IOU	100
US	SERC Southeaster	r AC	230	230	866	06/01/12 Athena	Rainev	45	OH	Unknown	Unknown	795	ACSR	Double	1	1	7197 Georgia Transmission Corpor	Cooperative	80
US	SERC Southeaster	r AC	230	230	602	06/01/12 Ellijay Prima	ry Cherry Log	12	OH	Unknown	Unknown	1351	ACSR	Single	1	1	7197 Georgia Transmission Corpor	Cooperative	100
US	SERC Southeaster	r AC	230	230	602	08/01/12 Clermont Ju		20		Unknown	Unknown	1351	ACSR	Single	1	1	7197 Georgia Transmission Corpo	Cooperative	100
US	SERC Delta	AC	230	230	640	09/01/12 Coly	Hammond	20		single pole	steel	1780	ACSR	Single	1	1	Entergy	IOU	100
US	SERC VACAR	AC	230	230	956	12/01/12 Winyah	Campfield	14		single pole	steel	1272	ACSR	Double	1	1	17543 South Carolina Public Service	Federal/State	100
US	SERC Delta	AC	230	230	400	06/01/13 Franklin	McComb	24		Unknown	Unknown	1272	ACSR	Single	1	1	Entergy	IOU	100
US	SERC Southeaster	r AC	230	230	602	06/01/13 Cliftondale	Ono		OH	Unknown	Unknown	1351	ACSR	Single	1	1	7197 Georgia Transmission Corpor	Cooperative	100
US	SERC Southeaster	r AC	230	230	602	06/01/13 Dorsett	Jct-57a Substation	11	OH	single pole	steel	1351	ACSR	Single	1	1	Georgia Power Company	IOU	100
US	SERC Southeaster	r AC	230	230	602	06/01/13 Ono	Line Creek	3	OH	Unknown	Unknown	1351	ACSR	Single	1	1	7197 Georgia Transmission Corpor	Cooperative	100
US	SERC Southeaster	r AC	230	230	602	06/01/13 Farley	Raccoon Creek	60		Unknown	Unknown	1351	ACSR	Single	1	1	7197 Georgia Transmission Corpor	Cooperative	100
US	SERC Southeaster	r AC	230	230	602	06/01/13 Hopewell	McGrau Ford (black)	11		H-frame	steel	1351	ACSR	Single	1	1	Georgia Power Company	IOU	100
US	SERC Southeaster	r AC	230	230	602	06/01/13 Shoal Cree	Suwanee	8	OH	Unknown	Unknown	1351	ACSR	Single	1	1	7197 Georgia Transmission Corpor	Cooperative	100
US	SERC Southeaster	r AC	230	230	1003	10/01/13 Prattville C		1	OH	Unknown	Unknown	1033	ACSR	Double	1	1	Alabama Power Company	IOU	100
US	SERC VACAR	AC	230	230	950	12/01/13 Canadys	Church Creek	38		single pole	steel	1272	ACSR	Double	1	1	South Carolina Flectric & Gas	IOU	100
US	SERC VACAR	AC	230	230	950	12/01/13 Canadys	Pepperhill	35		single pole	steel	1272	ACSR	Double	1	1	South Carolina Electric & Gas	IOU	100
US	SERC VACAR	AC	230	230	950	12/01/13 Pepperhill	Church Creek	16		single pole	steel	1272	ACSR	Double	1	1	South Carolina Electric & Gas	IOU	100
US	SERC VACAR	AC	230	230	950	12/01/13 VC Summe	VC Summer #2	1	OH	single pole	steel	1272	ACSR	Double	1	1	South Carolina Electric & Gas	IOU	100
US	SERC VACAR	AC	230	230	950	12/01/13 VC Summe	VC Summer #2	- 1	OH	single pole	steel	1272	ACSR	Double	1	1	South Carolina Electric & Gas	IOU	100
US	SERC VACAR	AC	230	230	352	12/01/13 Canadys	Church Creek	-38		H-frame	wood	795	ACSR	Single	1	1	South Carolina Electric & Gas	IOU	100
US	SERC Delta	AC	230	230	884	06/01/14 Porter		28			steel	954	ACSR	Double	2	2		IOU	100
							Lewis Creek			single pole					_		Entergy		
US	SERC Delta	AC	230	230	521	06/01/14 Winnfield	Danville	21	OH	single pole		1272	ACSR	Single	1	1	Entergy	IOU	100
US	SERC Southeaster	r AC	230	230	602	06/01/14 Clermont Jo		17		single pole	steel	1351	ACSR	Single	1	1	Georgia Power Company	IOU	100
US	SERC Southeaster	r AC	230	230	602	06/01/14 Clermont Jo	. South Cleveland	23		Unknown	Unknown	1351	ACSR	Single	1	1	7197 Georgia Transmission Corpor	Cooperative	100
US	SERC Southeaster	r AC	230	230	602	06/01/14 Line Creek	Ono	6	-	H-frame	steel	1351	ACSR	Single	1	1	Georgia Power Company	IOU	100
US	SERC Southeaster	r AC	230	230	602	06/01/14 O'Hara	McDonough	20		single pole	steel	1351	ACSR	Single	2	2	Georgia Power Company	IOU	100
US	SERC Southeaster	r AC	230	230	602	06/01/14 Bethbara	East Walton (black)	6		H-frame	steel	1351	ACSR	Single	1	1	Georgia Power Company	IOU	100
US	SERC Southeaster	r AC	230	230	602	06/01/14 Gordon	North Dublin	32		H-frame	wood	1351	ACSR	Single	1	1	Georgia Power Company	IOU	100
US	SERC Southeaster	r AC	230	230	602	06/01/14 JC Penny to		2	OH	single pole	steel	1351	ACSR	Single	1	1	Georgia Power Company	IOU	100
US	SERC Southeaster	r AC	230	230	602	06/01/14 South Dahl		8	OH	H-frame	steel	1351	ACSR	Single	1	1	Georgia Power Company	IOU	100
US	SERC VACAR	AC	230	230	1047	05/01/15 Reeves Ave		11		tower	steel	636	ACSR	Double	2	2	19876 Virginia Electric and Power C	IOU	100
US	SERC VACAR	AC	230	230	800	05/01/15 Landstown	Virginia Beach	11		tower	steel	636	ACSR	Double	2	2	19876 Virginia Electric and Power C	IOU	100
US	SERC VACAR	AC	230	230	515	05/01/15 Clark	Idylwood	4	OH	single pole	steel	1192	ACSR	Single	2	2	19876 Virginia Electric and Power C	IOU	100
US	SERC Southeaster	r AC	230	230	602	06/01/15 McDonougi	Ola	10	OH	Unknown	Unknown	1351	ACSR	Single	1	1	7197 Georgia Transmission Corpor	Cooperative	100
US	SERC Southeaster	r AC	230	230	602	06/01/15 McGrau Fo	d Hopewell	12		Unknown	Unknown	1351	ACSR	Single	1	1	7197 Georgia Transmission Corpor	Cooperative	100
US	SERC Southeaster	r AC	230	230	602	06/01/15 Forrest Roa		35		Unknown	Unknown	1351	ACSR	Single	1	1	7197 Georgia Transmission Corpor	Cooperative	100
US	SERC Southeaster	r AC	500	500	3464	06/01/15 Vogtle	Thomson	70		Unknown	Unknown	1113	ACSR	Triple	1	1	7197 Georgia Transmission Corpor	Cooperative	100
US	SERC VACAR	AC	230	230	950	12/01/15 VC Summe	Killian	38		single pole	steel	1272	ACSR	Double	1	2	South Carolina Electric & Gas	IOU	100
US	SERC VACAR	AC	230	230	950	12/01/15 VC Summe		19		single pole	steel	1272	ACSR	Double	1	1	South Carolina Electric & Gas	IOU	100
US	SERC VACAR	AC	230	230	950	12/01/15 Denny Terr		3	-	single pole	steel	1272	ACSR	Double	1	1	South Carolina Electric & Gas	IOU	100
US	SERC Southeaster	r AC	230	230	602	05/01/16 Mitchell	Slappy Drive	13		single pole	steel	1351	ACSR	Single	1	1	Georgia Power Company	IOU	100
US	SERC VACAR	AC	230	230	950	05/01/16 Urquhart	Graniteville	18		single pole	steel	1272	ACSR	Double	2	2	South Carolina Electric & Gas	IOU	100
US	SERC VACAR	AC	230	230	352	05/01/16 Urquhart	Graniteville	-38	OH	H-frame	wood	795	ACSR	Single	1	1	South Carolina Electric & Gas	IOU	100
	SERC VACAR	AC	500	500	3464	05/01/16 Bristers	Possum Point	35		tower	steel	1534	ACSR	Triple	1	2	19876 Virginia Electric and Power C	IOU	100
US		AC	230	230	1047	05/01/16 Chesterfield	Midlothian	22		tower	steel	636	ACSR	Double	2	2	19876 Virginia Electric and Power C	IOU	100
US	SERC VACAR			230	866	06/01/16 Arkwright	West Milledgeville	33	OH	H-frame	steel	795	ACSR	Double	1	1	Georgia Power Company	IOU	100
US US US	SERC Southeaster	r AC	230																
US US US US	SERC Southeaster SERC Southeaster	r AC	230	230	664	06/01/16 South Hall	Suwanee	10	OH	H-frame	steel	1622	ACSR	Single	1	11	Georgia Power Company	IOU	100
US US US US US	SERC Southeaster SERC Southeaster SERC Southeaster	r AC	230 500	230 500	664 2701	06/01/16 South Hall 06/01/16 Thomson P	Suwanee imary Vogtle	10 50	OH	H-frame tower	steel	1113	ACSR	Single Triple	1 1	1 1	Georgia Power Company Georgia Power Company	IOU	100
US US US US US US	SERC Southeaster SERC Southeaster SERC Southeaster SERC Southeaster	r AC r AC r AC	230 500 230	230 500 230	664 2701 502	06/01/16 South Hall 06/01/16 Thomson P 03/01/17 Anniston-H	Suwanee imary Vogtle mmond line North Anniston	50	OH OH	H-frame tower Unknown	steel Unknown	1113 1033	ACSR ACSR	Single Triple Single	1 1 1	1 1 1	Georgia Power Company Georgia Power Company Alabama Power Company	IOU	100 100
US US US US US	SERC Southeaster SERC Southeaster SERC Southeaster	r AC	230 500	230 500	664 2701	06/01/16 South Hall 06/01/16 Thomson P	Suwanee imary Vogtle		OH OH	H-frame tower	steel	1113	ACSR	Single Triple	1 1 1 1	1 1 1	Georgia Power Company Georgia Power Company	IOU	100

US							,						,			
211	SERC	VACAR	AC	230	230	628	06/01/17	Florence	Marion (PEC)		ngle pole steel	1590	ACSR	Single 1 1	Progress Energy Carolinas	IOU
	SPP	-	AC	345	345			Chamber Springs	Tontitown	14					17698 SOEP	
US	SPP	-	AC	230	230			Pecos Intg	Potash Jct	15					17719 SWPS	
US	SPP	-	AC	230	230		06/09/08	Mustang	Seminole	18					17721 SWPS	
US	SPP	-	AC	230	230		06/09/08	Seven Rivers	Pecos Intg	21					17718 SWPS	
US	SPP	-	AC	230	230		06/10/08	Hitchland	Moore County	21					17720 SWPS	
US	SPP	-	AC	230	230		06/10/08	Seminole	Hobbs Plt	43					17722 SWPS	
US	SPP	-	AC	230	230			BONIN 6	LABBE 6	1					LAFA	
US	SPP		AC	345	345		06/11/08	DOMIN 0	Valliant	16					20447 WEFA	
		-														
US	SPP	-	AC	345	345		06/11/08	Turk	NW Texarkana	34					17698 SOEP	
US	SPP	-	AC	345	345			Flint Creek	East Centertown	21					17698 SOEP	
US	SPP	-	AC	345	345		12/08/08	Wichita	Reno County	44					10005 KAGE	
US	SPP	-	AC	345	345		12/09/08	Reno County	Summut	53					22500 WERE	
US	SPP	-	AC	345	345			Rose Hill	Sooner	65					10005 KAGE	
US	SPP	-	AC	345	345		12/10/08	Sooner	Rosehill	90					OKGE	
US	SPP	-	AC	345	345			Northwest	Guvmon	210					OKGE	
US	TRE	1	AC	345	345		12/10/00	Jacksboro switch	W. Denton	72 OH		1.6	ACSR		19323 TXU Electric Delivery	
		-										1.0	ACSK			
US	TRE	-	AC	345	345	1		STP	Dow	0 011			4000		8901 CenterPoint	i i
US	TRE	-	AC	345	345			Collin Switch	NW Carrolton	19 OH		0.8	ACSR		19323 TXU Electric Delivery	I
US	TRE	-	AC	345	345			Anna Switch	Collin Switch	13 OH		1	ACSS/TW		19323 TXU Electric Delivery	1
US	TRE	-						W. Levee	Norwood	7		1.6	ACSR		19323 TXU Electric Delivery	1
US	TRE	-						Jewett	Big Brown	0					19323 TXU Electric Delivery	- 1
US	TRE	-						P H Robinson	Oasis	0		0.9	ACAR		8901 CenterPoint	
US	TRE	-		1	1	1	1	Spruce	Skyline	21		1.3	AA		16604 CityPublic Service of San An	M
US	TRE	+ -		1	1	1	l	Hutto Switch	Salado Switch	32		1.0	ACSR		19323 TXU Electric Delivery	- "
US	TRE	-		1	+	1		W. Denton	NW Carrolton	0	Steel		ACSR		18715 Texas Municipal Power Author	0
		 		1	+	1				70	Sieel	2.2	ACOR			
US	TRE	1 -		1	1	1		Hugo	Valley South			3.2	4000		2172 Brazos Electric Power Coop	С
US	TRE	-			1	1		Lobo	San Miguel	110		1.3	ACSR		829 AEP	
US	TRE	-		1		1		Zorn	Hutto Switch	71		1.6	ACSR		11269 LCRA	S
US	TRE	-						TNP One	Bell County SE	8		0.8	ACSS		19323 TXU Electric Delivery	I
US	TRE	-			1	1		Temple Switch	Salado Switch	88		1.6	ACSR		19323 TXU Electric Delivery	1
US	TRE	-						East Bell County	TNP One						40051 Texas-New Mexico Power Co	I
US	TRE	-						Tricorner	Seagoville Switch	9					19323 TXU Electric Delivery	- 1
US	TRE							Trinidad	Watermill	52					19323 TXU Electric Delivery	i
US	TRE	-		1	-				Krum W	50		1.6	ACSR			i
		-													19323 TXU Electric Delivery	
US	TRE	-		1		1		Lobo	Rio Bravo	30		1.6	ACSR		829 AEP	
US	TRE	-						Venus	Cedar Hill	21					19323 TXU Electric Delivery	- 1
US	TRE	-						Oklaunion	Bowman	38		1.6	ACSR		829 AEP	I I
US	TRE	-						Ajo	Cabillo	25		1.3	ACSR		829 AEP	- 1
US	TRE	-						Cagnon	Hillcountry	20		1	ACSR/TW		16604 CityPublic Service of San An	М
US	TRE	-						Sol	Rio Bravo	122		1.6	ACSR		829 AEP	
US	TRE	-						N. Edinbura	Sol	15		1.6	ACSR		829 AEP	i
US	TRE	-		1	-			Frontera	Sol	12		1.6	ACSR		829 AEP	i
US	TRE	<u> </u>		-	-			La Palma	Ranchito	10		1.6			829 AEP	- 1
US	TRE	-			-			Frontera	South McAllen	12		1.6	ACSR ACSR		829 AEP	
US	TRE	-						Ranchito	South McAllen	38		1.6	ACSR		829 AEP	l l
US	TRE	-						Liggett	Trinity Switch	13		1.6	ACSR		19323 TXU Electric Delivery	I
US	WECC	AZ-NM-SNV	AC	230	230	150 MVA	05/01/08	Coachella Tap CA	Indio CA	5					0 IID	- 1
US	WECC	-	AC	230	230	150 MVA	05/01/08	Coachella Tap CA	Indio CA	5					IID	I I
US	WECC	AZ-NM-SNV	AC	345	345	925 MVA		Mobile AZ	Mobile AZ	1					0 TEP	
US	WECC		AC	500	500	1405 MVA		Wintersburg AZ	Mobile AZ	51					0 SRP	1
US	WECC		AC	230	230	650 MVA		Westley	Rosemore	17					0 MID	i
US	WECC	CA-MX US	AC	230	230	650 MVA	06/01/08	Westley	Rosemore	17					0 MID	i
US	WECC	NWPP	AC	345	345	1396 MVA				1/			-		0 PAC	
							06/01/08	Soda Springs ID	Soda Springs ID	1						
US	WECC	NWPP	AC	345	345	1163 MVA		Cedar City UT	Cedar City UT	1					0 PAC	II .
US	WECC	-	AC	345	345	1396 MVA		Soda Springs ID	Soda Springs ID	1					PAC	II .
US	WECC	-	AC	345	345	1163 MVA			Cedar City UT	1					PAC	
US	WECC	-	AC	345	345	925 MVA		Mobile AZ	Mobile AZ	1					TEP	I
US	WECC	-	AC	500	500	1405 MVA		Wintersburg AZ	Mobile AZ	51					SRP	ı
US	WEGG								0							
	\\\F(:(:	-	AC	230	230	650 MVA	06/01/08	lWestlev	Rosemore	17					MID	ı
	WECC	- RMPA	AC AC	230	230		06/01/08 10/01/08									1
US	WECC	RMPA	AC	230	230	460 MVA	10/01/08	Donkey Creek WY	Pumpkin Buttes WY	75					0 BHP	1
US US	WECC	-	AC AC	230 230	230 230	460 MVA 460 MVA	10/01/08 10/01/08	Donkey Creek WY Donkey Creek WY	Pumpkin Buttes WY Pumpkin Buttes WY						0 BHP BHP	1
US US US	WECC WECC	- NWPP	AC AC AC	230 230 230	230 230 230	460 MVA 460 MVA 418 MVA	10/01/08 10/01/08 11/01/08	Donkey Creek WY Donkey Creek WY Carver OR	Pumpkin Buttes WY Pumpkin Buttes WY Oregon City OR	75 75 5					0 BHP BHP 0 PGE	1
US US US	WECC WECC WECC	-	AC AC AC	230 230 230 230	230 230 230 230	460 MVA 460 MVA 418 MVA 480 MVA	10/01/08 10/01/08 11/01/08 11/01/08	Donkey Creek WY Donkey Creek WY Carver OR Covington WA	Pumpkin Buttes WY Pumpkin Buttes WY Oregon City OR Berrydale WA	75					0 BHP BHP 0 PGE 0 PSE	1 1 1 1
US US US US	WECC WECC WECC WECC	NWPP NWPP	AC AC AC AC	230 230 230 230 230 230	230 230 230 230 230 230	460 MVA 460 MVA 418 MVA 480 MVA 418 MVA	10/01/08 10/01/08 11/01/08 11/01/08 11/01/08	Donkey Creek WY Donkey Creek WY Carver OR Covington WA Carver OR	Pumpkin Buttes WY Pumpkin Buttes WY Oregon City OR Berrydale WA Oregon City OR	75 75 5 10 5					0 BHP BHP 0 PGE 0 PSE PGE	1 1 1
US US US US US US US	WECC WECC WECC WECC WECC	NWPP NWPP -	AC AC AC AC AC	230 230 230 230 230 230 230	230 230 230 230 230 230 230	460 MVA 460 MVA 418 MVA 480 MVA 418 MVA 480 MVA	10/01/08 10/01/08 11/01/08 11/01/08 11/01/08 11/01/08	Donkey Creek WY Donkey Creek WY Carver OR Covington WA Carver OR Covington WA	Pumpkin Buttes WY Pumpkin Buttes WY Oregon City OR Berrydale WA Oregon City OR Berrydale WA	75 75 5 10 5					0 BHP BHP 0 PGE 0 PSE PGE PSE	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
US US US US	WECC WECC WECC WECC	NWPP NWPP - - AZ-NM-SNV	AC AC AC AC AC AC	230 230 230 230 230 230	230 230 230 230 230 230	460 MVA 460 MVA 418 MVA 480 MVA 418 MVA	10/01/08 10/01/08 11/01/08 11/01/08 11/01/08	Donkey Creek WY Donkey Creek WY Carver OR Covington WA Carver OR	Pumpkin Buttes WY Pumpkin Buttes WY Oregon City OR Berrydale WA Oregon City OR	75 75 5 10 5 10					0 BHP BHP 0 PGE 0 PSE PGE PSE 0 FSR	1 1 1
US US US US US US US	WECC WECC WECC WECC WECC	NWPP NWPP -	AC AC AC AC AC	230 230 230 230 230 230 230	230 230 230 230 230 230 230	460 MVA 460 MVA 418 MVA 480 MVA 418 MVA 480 MVA	10/01/08 10/01/08 11/01/08 11/01/08 11/01/08 11/01/08 12/01/08	Donkey Creek WY Donkey Creek WY Carver OR Covington WA Carver OR Covington WA	Pumpkin Buttes WY Pumpkin Buttes WY Oregon City OR Berrydale WA Oregon City OR Berrydale WA	75 75 5 10 5					0 BHP BHP 0 PGE 0 PSE PGE PSE	1 1 1
US US US US US US	WECC WECC WECC WECC WECC WECC	NWPP NWPP - - AZ-NM-SNV CA-MX US	AC AC AC AC AC AC	230 230 230 230 230 230 230 230 115	230 230 230 230 230 230 230 115	460 MVA 460 MVA 418 MVA 480 MVA 418 MVA 480 MVA 195 MVA	10/01/08 10/01/08 11/01/08 11/01/08 11/01/08 11/01/08 12/01/08 12/01/08	Donkey Creek WY Donkey Creek WY Carver OR Covington WA Carver OR Covington WA West Loop NM Santa Clara CA	Pumpkin Buttes WY Pumpkin Buttes WY Oregon City OR Berrydale WA Oregon City OR Berrydale WA Hogback (S J G C) NM	75 75 5 10 5 10					0 BHP BHP 0 PGE 0 PSE PGE PSE 0 FSR	1 1 1
US	WECC WECC WECC WECC WECC WECC WECC WECC	NWPP NWPP AZ-NM-SNV CA-MX US NWPP	AC	230 230 230 230 230 230 230 115 230 115	230 230 230 230 230 230 230 115 230 115	460 MVA 460 MVA 418 MVA 480 MVA 418 MVA 480 MVA 195 MVA 1714 AMP 1347 Amp	10/01/08 10/01/08 11/01/08 11/01/08 11/01/08 11/01/08 12/01/08 12/01/08 12/01/08	Donkey Creek WY Donkey Creek WY Carver OR Covington WA Carver OR Covington WA West Loop NM Santa Clara CA SnoKing WA	Pumpkin Buttes WY Pumpkin Buttes WY Oregon City OR Berrydale WA Oregon City OR Berrydale WA Hogback (S J G C) NM Monterey CA Clearview WA	75 75 5 10 5 10					0 BHP BHP 0 PGE 0 PSE PGE PSE PGE PSE 0 FARM 0 PG&E	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
US	WECC WECC WECC WECC WECC WECC WECC WECC	NWPP NWPP AZ-NM-SNV CA-MX US NWPP NWPP	AC A	230 230 230 230 230 230 230 2115 230 115 345	230 230 230 230 230 230 230 115 230 115 345/161/13	460 MVA 460 MVA 418 MVA 480 MVA 418 MVA 480 MVA 195 MVA 1714 AMP 1347 Amp 3 300 MW	10/01/08 10/01/08 11/01/08 11/01/08 11/01/08 11/01/08 11/01/08 12/01/08 12/01/08 12/01/08 12/01/08	Donkey Creek WY Donkey Creek WY Carver OR Covington WA Carver OR Covington WA West Loop NM Santa Clara CA SnoKing WA Soda Springs ID	Pumpkin Buttes WY Pumpkin Buttes WY Oregon City OR Berrydale WA Oregon City OR Berrydale WA Hogback (S J G C) NM Monterey CA Clearview WA Soda Springs ID	75 75 75 5 10 10 13 70 8 0					0 BHP BHP 0 PGE 0 PSE PGE PGE PSE 0 FARM 0 PGAE 0 SNPD 0 PAC	
US US US US US US US US US US US US US	WECC WECC WECC WECC WECC WECC WECC WECC	AZ-NM-SNV CA-MX US NWPP NWPP RMPA	AC A	230 230 230 230 230 230 230 115 230 115 345 115	230 230 230 230 230 230 230 115 230 115 345/161/13	460 MVA 460 MVA 418 MVA 480 MVA 418 MVA 480 MVA 195 MVA 1714 AMP 1347 Amp 3 300 MW	10/01/08 10/01/08 11/01/08 11/01/08 11/01/08 11/01/08 12/01/08 12/01/08 12/01/08 12/01/08 12/01/08 12/01/08	Donkey Creek WY Donkey Creek WY Carver OR Covington WA Carver OR Covington WA West Loop NM Santa Clara CA Snoking WA Soda Springs ID Nucla CO	Pumpkin Buttes WY Pumpkin Buttes WY Oregon City OR Berrydale WA Oregon City OR Berrydale WA Hogback (S J G C) NM Monterey CA Clearview WA Soda Springs ID Telluride CO	75 75 5 10 5 10					0 BHP BHP 0 PGE 0 PSE PGE PSE 0 FARM 0 PG&E 0 SNPD 0 SNPD 0 PAC 0 TSGT	
US US US US US US US US US US US US US U	WECC WECC WECC WECC WECC WECC WECC WECC	AZ-NM-SNV CA-MX US NWPP NWPP RMPA RMPA	AC A	230 230 230 230 230 230 230 115 230 115 345 115	230 230 230 230 230 230 230 115 115 345/161/13 115 115	460 MVA 460 MVA 418 MVA 480 MVA 418 MVA 480 MVA 195 MVA 1714 AMP 1347 Amp 3 300 MW 166 MVA 85 MVA	10/01/08 10/01/08 11/01/08 11/01/08 11/01/08 11/01/08 12/01/08 12/01/08 12/01/08 12/01/08 12/01/08 12/01/08 12/01/08	Donkey Creek WY Donkey Creek WY Carver OR Covington WA Carver OR Covington WA West Loop NM Santa Clara CA SnoKing WA Soda Springs ID Nucla CO Hesperus CO	Pumpkin Buttes WY Pumpkin Buttes WY Oregon City OR Berrydale WA Oregon City OR Berrydale WA Oregon City OR Berrydale WA Hogback (S J G C) NM Monterey CA Clearview WA Soda Springs ID Telluride CO Durango CO	75 75 75 5 10 10 13 70 8 8 0 0 48 1 1					0 BHP BHP 0 PGE 0 PSE PCE PSE 0 FARM 0 PGAE 0 SNPD 0 PAC 0 TSGT	
US U	WECC WECC WECC WECC WECC WECC WECC WECC	AZ-NM-SNV CA-MX US NWPP NWPP NWPP RMPA RMPA	AC A	230 230 230 230 230 230 230 115 230 115 345 115 115	230 230 230 230 230 230 230 115 230 115 345/161/13 115 115	460 MVA 460 MVA 418 MVA 418 MVA 418 MVA 418 MVA 195 MVA 1714 AMP 1347 Amp 3 300 MW 166 MVA 85 MVA 232 MVA	10/01/08 10/01/08 11/01/08 11/01/08 11/01/08 11/01/08 11/01/08 12/01/08 12/01/08 12/01/08 12/01/08 12/01/08 12/01/08 12/01/08	Donkey Creek WY Donkey Creek WY Carver OR Covington WA Carver OR Covington WA West Loop NM Santa Clara CA SnoKing WA Soda Springs ID Nucla CO Hesperus CO Baylield CO	Pumpkin Buttes WY Pumpkin Buttes WY Oregon City OR Berrydale WA Oregon City OR Berrydale WA Hogback (S J G C) NM Monterey CA Clearview WA Sodd Springs ID Telluride CO Durango CO Durango CO	75 75 75 75 75 75 75 75					0 BHP BHP 0 PGE 0 PSE PGE PGE PSE 0 FARM 0 PG&E 0 SMPD 0 PAC 0 TSGT 0 TSGT	
US U	WECC WECC WECC WECC WECC WECC WECC WECC	AZ-NM-SNV CA-MX US NWPP NWPP RMPA RMPA RMPA RMPA	AC A	230 230 230 230 230 230 115 230 115 345 115 115 115	230 230 230 230 230 230 115 115 345/161/13 115 115 115	460 MVA 460 MVA 418 MVA 480 MVA 418 MVA 480 MVA 195 MVA 1714 AMP 1347 Amp 3 300 MW 166 MVA 85 MVA 154 MVA	10/01/08 10/01/08 11/01/08 11/01/08 11/01/08 11/01/08 11/01/08 12/01/08 12/01/08 12/01/08 12/01/08 12/01/08 12/01/08 12/01/08	Donkey Creek WY Carver OR Covington WA Carver OR Covington WA Covington WA Covington WA Covington WA Santa Clara CA SnoKing WA Soda Springs ID Nucla CO Bayfield CO Bayfield CO	Pumpkin Buttes WY Drepon City OR Berrydale WA Oregon City OR Berrydale WA Oregon City OR Berrydale WA Oregon City OR Berrydale WA Hogback (S J G C) NM Monterey CA Clearview WA Soda Springs ID Telluride CO Durango CO Durango CO Spring Creek Tap CO	75 75 75 5 10 10 13 70 8 8 0 0 48 1 1					0 BHP BHP 0 PGE 0 PSE PGE PSE 0 FARM 0 PGAE 0 PGAE 0 PAC 0 TSGT 0 TSGT 0 TSGT	
US U	WECC WECC WECC WECC WECC WECC WECC WECC	AZ-NM-SNV CA-MX US NWPP NWPP NWPP RMPA RMPA	AC A	230 230 230 230 230 230 230 115 230 115 345 115 115 115	230 230 230 230 230 230 115 230 115 345/161/13 115 115 115 115	460 MVA 460 MVA 418 MVA 480 MVA 418 MVA 480 MVA 195 MVA 1714 AMP 1347 Amp 3 300 MW 166 MVA 85 MVA 232 MVA 1347 Amp	10/01/08 10/01/08 11/01/08 11/01/08 11/01/08 11/01/08 12/01/08 12/01/08 12/01/08 12/01/08 12/01/08 12/01/08 12/01/08 12/01/08 12/01/08 12/01/08	Donkey Creek WY Donkey Creek WY Carver OR Covington WA Covington WA West Loop NM Santa Clarar CA Snoking WA Soda Springs ID Nucla CO Hesperus CO Bayfield CO Hotchkiss CO Snoking WA	Pumpkin Buttes WY Pumpkin Buttes WY Oregon City OR Berrydale WA Oregon City OR Berrydale WA Oregon City OR Berrydale WA Hogback (S J G C) NM Monterey CA Clearview WA Soda Springs ID Telluride CO Durango CO Durango CO Spring Creek Tap CO Clearview WA	75 75 75 75 75 75 75 75					0 BHP BHP 0 PGE 0 PSE PGE PGE PSE 0 FARM 0 PGAE 0 SMPD 0 PAC 0 TSGT 0 TSGT 0 TSGT SMPD	
US U	WECC WECC WECC WECC WECC WECC WECC WECC	AZ-NM-SNV CA-MX US NWPP NWPP RMPA RMPA RMPA RMPA	AC A	230 230 230 230 230 230 230 115 230 115 345 115 115 115 115 115	230 230 230 230 230 230 230 115 230 115 345/161/13 115 115 115 115 115 115	460 MVA 460 MVA 418 MVA 418 MVA 418 MVA 418 MVA 195 MVA 1714 AMP 1347 Amp 3 300 MW 166 MVA 232 MVA 154 MVA 3 400 MV 3 5 MVA 3 5 MVA 3 5 MVA 3 300 MW	10/01/08 10/01/08 11/01/08 11/01/08 11/01/08 11/01/08 11/01/08 12/01/08 12/01/08 12/01/08 12/01/08 12/01/08 12/01/08 12/01/08 12/01/08 12/01/08 12/01/08	Donkey Creek WY Carver OR Covington WA Carver OR Covington WA Covington WA Covington WA Covington WA Santa Clara CA SnoKing WA Soda Springs ID Nucla CO Hesperus CO Bayfield CO Hotchiks CO SnoKing WA Soda Springs ID Soda Springs ID	Pumpkin Buttes WY Dregon City OR Berrydale WA Oregon City OR Berrydale WA Oregon City OR Berrydale WA Oregon City OR Berrydale WA Hogback (S J G C) NM Monterey CA Clearview WA Soda Springs ID Telluride CO Durango CO Durango CO Durango CO Clearview WA Soda Springs ID	75 75 75 5 10 10 10 10 10 10 10 10 10 10 10 10 10					0 BHP BHP 0 PGE 0 PSE PGE PSE PGE 0 FSE 0 FARM 0 PGAE 0 SMPD 0 PAC 0 TSGT 0 TSGT 0 TSGT SMPD PAC	
US U	WECC WECC WECC WECC WECC WECC WECC WECC	AZ-NM-SNV CA-MX US NWPP NWPP RMPA RMPA RMPA RMPA	AC A	230 230 230 230 230 230 230 115 230 115 345 115 115 115	230 230 230 230 230 230 115 230 115 345/161/13 115 115 115 115	460 MVA 460 MVA 418 MVA 480 MVA 418 MVA 480 MVA 195 MVA 1714 AMP 1347 Amp 3 300 MW 166 MVA 85 MVA 232 MVA 1347 Amp	10/01/08 10/01/08 11/01/08 11/01/08 11/01/08 11/01/08 12/01/08 12/01/08 12/01/08 12/01/08 12/01/08 12/01/08 12/01/08 12/01/08 12/01/08 12/01/08	Donkey Creek WY Donkey Creek WY Carver OR Covington WA Covington WA West Loop NM Santa Clarar CA Snoking WA Soda Springs ID Nucla CO Hesperus CO Bayfield CO Hotchkiss CO Snoking WA	Pumpkin Buttes WY Pumpkin Buttes WY Oregon City OR Berrydale WA Oregon City OR Berrydale WA Oregon City OR Berrydale WA Hogback (S J G C) NM Monterey CA Clearview WA Soda Springs ID Telluride CO Durango CO Durango CO Spring Creek Tap CO Clearview WA	75					0 BHP BHP 0 PGE 0 PGE 0 PSE PGE PGE 0 FARM 0 PG&E 0 SNPD 0 PAC 0 TSGT 0 TSGT SNPD 0 TSGT SNPD 0 TSGT TSGT SNPD 0 TSGT SNPD	
US U	WECC WECC WECC WECC WECC WECC WECC WECC	AZ-NM-SNV CA-MX US NWPP NWPP RMPA RMPA RMPA RMPA	AC A	230 230 230 230 230 230 230 115 230 115 345 115 115 115 115 115	230 230 230 230 230 230 230 115 230 115 345/161/13 115 115 115 115 115 115	460 MVA 460 MVA 418 MVA 418 MVA 418 MVA 418 MVA 195 MVA 1714 AMP 1347 Amp 3 300 MW 166 MVA 232 MVA 154 MVA 3 400 MV 3 5 MVA 3 5 MVA 3 5 MVA 3 300 MW	10/01/08 10/01/08 11/01/08 11/01/08 11/01/08 11/01/08 11/01/08 12/01/08 12/01/08 12/01/08 12/01/08 12/01/08 12/01/08 12/01/08 12/01/08 12/01/08 12/01/08 12/01/08 12/01/08	Donkey Creek WY Carver OR Covington WA Carver OR Covington WA Covington WA Covington WA Covington WA Santa Clara CA SnoKing WA Soda Springs ID Nucla CO Hesperus CO Bayfield CO Hotchiks CO SnoKing WA Soda Springs ID Soda Springs ID	Pumpkin Buttes WY Dregon City OR Berrydale WA Oregon City OR Berrydale WA Oregon City OR Berrydale WA Oregon City OR Berrydale WA Hogback (S J G C) NM Monterey CA Clearview WA Soda Springs ID Telluride CO Durango CO Durango CO Durango CO Clearview WA Soda Springs ID	75 75 75 5 10 10 10 10 10 10 10 10 10 10 10 10 10					0 BHP BHP 0 PGE 0 PSE PGE PSE PGE 0 FSE 0 FARM 0 PGAE 0 SMPD 0 PAC 0 TSGT 0 TSGT 0 TSGT SMPD PAC	
US U	WECC WECC WECC WECC WECC WECC WECC WECC	AZ-NM-SNV CA-MX US NWPP NWPP RMPA RMPA RMPA RMPA	AC A	230 230 230 230 230 230 230 115 230 115 345 115 115 115 115 115 115 115 115	230 230 230 230 230 230 230 115 230 115 115 115 115 115 115 115 115 115 11	460 MVA 460 MVA 480 MVA 418 MVA 418 MVA 418 MVA 418 MVA 1714 AMP 1347 Amp 3 300 MW 232 MVA 1347 Amp 3 300 MW 135 MVA 1347 Amp 3 300 MW 195 MVA 195 MVA	10/01/08 10/01/08 11/01/08 11/01/08 11/01/08 11/01/08 12/01/08 12/01/08 12/01/08 12/01/08 12/01/08 12/01/08 12/01/08 12/01/08 12/01/08 12/01/08 12/01/08 12/01/08 12/01/08 12/01/08	Donkey Creek WY Donkey Creek WY Carver OR Covington WA Canver OR Covington WA Covington WA Senta Clara CA SnoKing WA Soda Springs ID Nucla CO Hesperus CO Hesperus CO SnoKing WA Soda Springs ID West Loop NM West Loop NM West Loop NM Nucla CO Hotchkiss CO SnoKing WA West Loop NM Nucla CO	Pumpkin Buttes WY Pumpkin Buttes WY Oregon City OR Berrydale WA Oregon City OR Berrydale WA Oregon City OR Berrydale WA Hopback (S J G C) NM Monterey CA Clearview WA Soda Springs ID Telluride CO Durango CO Durango CO Spring Creek Tap CO Clearview WA Soda Springs ID Hopback (S J G C) NM	75					0 BHP BHP 0 PGE 0 PSE PGE PSE PGE PSE 0 FARM 0 PGAE 0 SNPD 0 PAC 0 TSGT 0 TSGT SNPD PAC FARM TSGT	
US U	WECC WECC WECC WECC WECC WECC WECC WECC	AZ-NM-SNV CA-MX US NWPP NWPP RMPA RMPA RMPA RMPA	AC A	230 230 230 230 230 230 230 115 230 115 345 115 115 115 115 115 115 115 115 115	230 230 230 230 230 230 115 230 115 230 115 115 115 115 115 115 115 115 115 11	460 MVA 460 MVA 480 MVA 418 MVA 480 MVA 418 MVA 490 MVA 195 MVA 195 MVA 1347 Amp 300 MW 166 MVA 232 MVA 1347 Amp 1347 Amp 1347 Amp 1347 Amp 1347 Amp 135 MVA 135 MVA 135 MVA 136 MVA 136 MVA 137 MVA 138 MVA 1	10/01/08 10/01/08 11/01/08 11/01/08 11/01/08 11/01/08 11/01/08 12/01/08 12/01/08 12/01/08 12/01/08 12/01/08 12/01/08 12/01/08 12/01/08 12/01/08 12/01/08 12/01/08 12/01/08 12/01/08	Donkey Creek WY Donkey Creek WY Carver OR Covington WA Cavington WA Cavington WA Cavington WA Santa Clara CA SnoKing WA Soda Springs ID Nucla CO Hesperus CO Bayfield CO Hotchking WA Soda Springs ID Nucla CO Hesperus CO SnoKing WA Nucla CO Hesperus CO SnoKing WA Nucla CO Hesperus CO Hesperus CO Hotchking WA Nucla CO Hesperus CO West Loop NM Nucla CO	Pumpkin Buttes WY Pumpkin Buttes WY Oregon Cily OR Berrydale WA Oregon Cily OR Berrydale WA Oregon Cily OR Berrydale WA Hogback (S J G C) NM Monterey CA Clearview WA Soda Springs ID Tellunde CO Durango CO Durango CO Spring Creek Tap CO Clearview WA Soda Springs ID Hogback (S J G C) NM Tellunde CO Durango CO	75 75 75 5 10 10 10 10 10 10 13 10 10					0 BHP BHP 0 PGE 0 PGE 0 PSE PCE PSE 0 FARM 0 PGAE 0 SNPD 0 PAC 0 TSGT 0 TSGT 0 TSGT SNPD PAC FARM TSGT TSGT	
US U	WECC WECC WECC WECC WECC WECC WECC WECC	AZ-NM-SNV CA-MX US NWPP NWPP RMPA RMPA RMPA RMPA	AC A	230 230 230 230 230 230 230 115 345 115 115 115 115 115 115 115 115 115 1	230 230 230 230 230 230 115 230 115 115 115 115 115 115 115 115 115 11	460 MVA 460 MVA 480 MVA 480 MVA 480 MVA 418 MVA 480 MVA 195 MVA 195 MVA 195 MVA 1347 Amp 1364 MVA 1347 Amp 1347 Amp 1347 Amp 1354 MVA 1354 MVA 1364	1001/08 10/01/08 11/01/08 11/01/08 11/01/08 11/01/08 11/01/08 12/01/08 12/01/08 12/01/08 12/01/08 12/01/08 12/01/08 12/01/08 12/01/08 12/01/08 12/01/08 12/01/08 12/01/08 12/01/08 12/01/08 12/01/08 12/01/08 12/01/08	Donkey Creek WY Donkey Creek WY Carver OR Covington WA Canver OR Covington WA Sont Op NM Santa Clara CA SonoKing WA Soda Springs ID Nucla CO Hesperus CO Hotchkiss CO Hotchkis	Pumpkin Buttes WY Pumpkin Buttes WY Oregon City OR Berrydale WA Hobpack (S J G C) NM Monterey CA Clearview WA Soda Springs ID Purango CO Durango CO Spring Creek Tap CO Clearview WA Soda Springs ID Hogback (S J G C) NM Telluride CO Durango CO	75 75 75 75 75 75 75 75					0 BHP BHP 0 PGE 0 PSE PGE PSE PGE PSE 0 FARM 0 PG&E 0 PSE 0 FARM 0 PG&E 0 SMPD 0 PAC 0 TSGT 0 TSGT 0 TSGT SMPD PAC FARM TSGT TSGT TSGT	
US U	WECC WECC WECC WECC WECC WECC WECC WECC	AZ-NM-SNV CA-MX US NWPP NWPP RMPA RMPA RMPA RMPA	AC A	230 230 230 230 230 230 230 115 230 115 345 115 115 115 115 115 115 115 115 115	230 230 230 230 230 230 115 230 115 230 115 115 115 115 115 115 115 115 115 11	460 MVA 460 MVA 480 MVA 418 MVA 480 MVA 418 MVA 195 MVA 195 MVA 195 MVA 232 MVA 232 MVA 1347 Amp 3 300 MW 195 MVA 1347 Amp 1347 Amp 135 MVA 135 MV	10/01/08 10/01/08 11/01/08 11/01/08 11/01/08 11/01/08 12/01/08	Donkey Creek WY Donkey Creek WY Carver OR Covington WA Cavington WA Cavington WA Cavington WA Santa Clara CA SnoKing WA Soda Springs ID Nucla CO Hesperus CO Bayfield CO Hotchking WA Soda Springs ID Nucla CO Hesperus CO SnoKing WA Nucla CO Hesperus CO SnoKing WA Nucla CO Hesperus CO Hesperus CO Hotchking WA Nucla CO Hesperus CO West Loop NM Nucla CO	Pumpkin Buttes WY Pumpkin Buttes WY Oregon Cily OR Berrydale WA Oregon Cily OR Berrydale WA Oregon Cily OR Berrydale WA Hogback (S J G C) NM Monterey CA Clearview WA Soda Springs ID Tellunde CO Durango CO Durango CO Spring Creek Tap CO Clearview WA Soda Springs ID Hogback (S J G C) NM Tellunde CO Durango CO	75 75 75 5 10 10 10 10 10 10 13 10 10					0 BHP BHP 0 PGE 0 PGE 0 PSE PCE PSE 0 FARM 0 PGAE 0 SNPD 0 PAC 0 TSGT 0 TSGT 0 TSGT SNPD PAC FARM TSGT TSGT	

US															
		CA-MX US		230	500	3950 AMP	01/01/09	Antelope CA	Pardee CA	26			0 SCE	- 1	100
US	WECC		AC	230	500			Antelope CA	Pardee CA	26			SCE	- 1	100
US	WECC	AZ-NM-SNV	AC	500	500			Four Corners NM	Red Mesa AZ	189			0 DPA	1	100
US	WECC		AC	500	500	1905 MVA	04/01/09	Phoenix AZ	Border City NV	0			0 SRP	1	100
US	WECC	CA-MX US	AC	230	230	1240 AMP	04/01/09	Big Creek CA	Rector CA	75			0 SCE		100
US	WECC	CA-MX US	AC	230	230	1240 AMP	04/01/09	Springville CA	Rector CA	48			0 SCE		100
US	WECC		AC	500	500	1300 MVA		Four Corners NM	Red Mesa AZ	189			DPA	1	100
US	WECC	-	AC	500	500	1905 MVA	04/01/09	Phoenix AZ	Border City NV	0			SRP		100
US	WECC		AC	230	230	1240 AMP	04/01/09	Big Creek CA	Rector CA	75			SCE	1	100
US	WECC		AC	230	230			Springville CA	Rector CA	48			SCE	i	100
US	WECC		AC	500	500			Coronado AZ	Silverking	0			0 SRP		100
US	WECC		AC	115	115	N/A N/A	05/01/09	Palm Springs CA	Thousand Palms CA	7			0 SCE	-	100
				230	230					135		 			
US	WECC		AC AC	230	230	534 MVA 534 MVA		Great Falls Great Falls	U. S Border U. S Border	135			0 USE USF	1	I 100 I 100
										135					
US	WECC		AC	500	500	1494 MVA			Silverking	0			SRP		100
US	WECC		AC	115	115	N/A N/A		Palm Springs CA	Thousand Palms CA	/			SCE		100
US	WECC		AC	230	230			Rancho Vista CA	Etiwanda CA	1			0 SCE		100
US	WECC		AC	230	230			Rancho Vista CA	Etiwanda CA	1			0 SCE		100
US	WECC		AC	230	230			Rancho Vista CA	Pauda CA	15			0 SCE	I	100
US		CA-MX US	AC	230	230			Rancho Vista CA	Mira Loma CA	7			0 SCE	I	100
US	WECC		AC	230	230			Coachella CA	Thousand Palms CA	1			0 SCE	1	100
US	WECC		AC	230	230	3230 AMP	06/01/09	Rancho Vista CA	Mira Loma CA	7			0 SCE	1	100
US	WECC		AC	230	230	912 MW	06/01/09		Penasquitos	11			0 SDGE		100
US	WECC	CA-MX US	AC	500	500	2700 AMP	06/01/09	Harquahala Junction AZ	Devers CA	225			0 SCE	T	100
US	WECC		AC	500	500	3950 AMP	06/01/09	Lugo CA	Rancho Vista CA	23			0 SCE	1	100
US	WECC		AC	500	500	3950 AMP	06/01/09	Rancho Vista CA	Serrano CA	30			0 SCE	1	100
US	WECC		AC	345	345			Cedar City UT	Cedar City UT	1			0 PAC		100
US	WECC		AC	345	345			Bluffdale UT	SLC UT	0			0 PAC	i	100
US	WECC		AC	345	345	1163 MVA			Cedar City UT	1			PAC	i	100
US	WECC		AC	345	345			Bluffdale UT	SLC UT	Ö			PAC	i	100
US	WECC		AC	230	230	3230 AMP		Rancho Vista CA	Etiwanda CA	1 1 1		 	SCE	<u> </u>	100
US	WECC		AC	230	230			Rancho Vista CA	Etiwanda CA	1 1			SCE	- i	100
US	WECC		AC	230	230			Rancho Vista CA	Pauda CA	15	 	 	SCE	+	1 100
US	WECC		AC	230	230			Rancho Vista CA	Mira Loma CA	7		+ + + + + + + + + + + + + + + + + + + +	SCE	+	100
			AC							4				- '	
US	WECC			230	230	1240 AMP	06/01/09		Thousand Palms CA	1			SCE	-	100
US	WECC		AC	230	230				Mira Loma CA	/			SCE		100
US	WECC		AC	230	230	912 MW			Penasquitos	11			SDGE	1	100
US	WECC		AC	500	500	2700 AMP	06/01/09		Devers CA	225			SCE	1	100
US	WECC		AC	500	500	3950 AMP			Rancho Vista CA	23			SCE	- 1	100
US	WECC		AC	500	500			Rancho Vista CA	Serrano CA	30			SCE	1	100
US	WECC	CA-MX US	AC	± 500	± 500	2400 MW	07/01/09	Intermountain UT	Adelanto CA	488			0 LDWP	1	100
US	WECC		AC	± 500	± 500	2400 MW		Intermountain UT	Adelanto CA	488			LDWP	1	100
US	WECC	AZ-NM-SNV	AC	138	230	192 MVA	08/01/09								
US	MEGO				230	192 IVIVA	00/01/09	Stirling Mountain NV	Vista NV	25			0 VEA	1	100
	WECC									25 41				I	
US	WECC	AZ-NM-SNV	AC AC	230	230 230 345	320 MVA 1076 MW	08/01/09	Stirling Mountain NV	Northwest NV Dayton NV				0 VEA 0 VEA 0 SPR		1 100 1 100 1 100
	WECC	AZ-NM-SNV NWPP	AC AC	230 345	230 345	320 MVA 1076 MW	08/01/09 08/01/09	Stirling Mountain NV Reno NV	Northwest NV	41 20			0 VEA		I 100 I 100
US	WECC	AZ-NM-SNV NWPP	AC AC AC	230	230 345 345	320 MVA	08/01/09 08/01/09 08/01/09	Stirling Mountain NV Reno NV Reno NV	Northwest NV Dayton NV	41			0 VEA 0 SPR	1	1 100 1 100 1 100
US	WECC WECC	AZ-NM-SNV NWPP	AC AC AC	230 345 345 138	230 345 345 230	320 MVA 1076 MW 1076 MW 192 MVA	08/01/09 08/01/09 08/01/09 08/01/09	Stirling Mountain NV Reno NV Reno NV Stirling Mountain NV	Northwest NV Dayton NV Dayton NV Vista NV	41 20 20 20 25			0 VEA 0 SPR SPR VEA		I 100 I 100 I 100 I 100
US US US	WECC WECC WECC	AZ-NM-SNV NWPP - -	AC AC AC AC	230 345 345 138 230	230 345 345 230 230	320 MVA 1076 MW 1076 MW 192 MVA 320 MVA	08/01/09 08/01/09 08/01/09 08/01/09 08/01/09	Stirling Mountain NV Reno NV Reno NV Stirling Mountain NV Stirling Mountain NV	Northwest NV Dayton NV Dayton NV Vista NV Northwest NV	41 20 20 20 25 41			0 VEA 0 SPR SPR VEA VEA		100 100 100 100 100
US US US	WECC WECC WECC WECC	AZ-NM-SNV NWPP - - - NWPP	AC AC AC AC AC	230 345 345 138 230 230	230 345 345 230 230 230	320 MVA 1076 MW 1076 MW 192 MVA 320 MVA 1420 Amp	08/01/09 08/01/09 08/01/09 08/01/09 08/01/09 11/01/09	Stirling Mountain NV Reno NV Reno NV Stirling Mountain NV Stirling Mountain NV Olympia WA	Northwest NV Dayton NV Dayton NV Vista NV Northwest NV Shelton WA	41 20 20 20 25 41			0 VEA 0 SPR SPR VEA VEA VEA 0 BPA	1	100 100 100 100 100 100
US US US US US	WECC WECC WECC WECC WECC	AZ-NM-SNV NWPP - - - - NWPP NWPP	AC AC AC AC AC AC	230 345 345 138 230 230 230	230 345 345 230 230 230 230	320 MVA 1076 MW 1076 MW 192 MVA 320 MVA 1420 Amp 1420 Amp	08/01/09 08/01/09 08/01/09 08/01/09 08/01/09 11/01/09	Stirling Mountain NV Reno NV Reno NV Stirling Mountain NV Stirling Mountain NV Olympia WA	Northwest NV Dayton NV Dayton NV Vista NV Northwest NV Shelton WA Shelton WA	41 20 20 20 25 41			0 VEA 0 SPR SPR VEA VEA 0 BPA 0 BPA		100 100 100 100 100 100 100 100 100
US US US US US US	WECC WECC WECC WECC WECC WECC	AZ-NM-SNV NWPP - - - - NWPP NWPP RMPA	AC AC AC AC AC AC AC AC AC	230 345 345 138 230 230 230 115	230 345 345 230 230 230 230 230 230	320 MVA 1076 MW 1076 MW 192 MVA 320 MVA 1420 Amp 1420 Amp 1200 AMP	08/01/09 08/01/09 08/01/09 08/01/09 08/01/09 11/01/09 11/01/09	Stirling Mountain NV Reno NV Reno NV Stirling Mountain NV Stirling Mountain NV Olympia WA Olympia WA Sandown CO	Northwest NV Dayton NV Dayton NV Vista NV Northwest NV Shelton WA Shelton WA Leetsdale CO	41 20 20 20 25 41 14 34 6			0 VEA		100 1 100 1 100 1 100 1 100 1 100 1 100 1 100
US US US US US US US US US	WECC WECC WECC WECC WECC WECC WECC	AZ-NM-SNV NWPP - - - NWPP NWPP RMPA	AC	230 345 345 138 230 230 230 215 230	230 345 345 230 230 230 230 230 230 230	320 MVA 1076 MW 1076 MW 192 MVA 320 MVA 1420 Amp 1420 Amp 1200 AMP 1420 Amp	08/01/09 08/01/09 08/01/09 08/01/09 08/01/09 11/01/09 11/01/09 11/01/09	Stirling Mountain NV Reno NV Reno NV Stirling Mountain NV Stirling Mountain NV Olympia WA Olympia WA Sandown CO Olympia WA	Northwest NV Dayton NV Dayton NV Vista NV Northwest NV Shelton WA Shelton WA Leetsdale CO Shelton WA	41			0 VEA 0 SPR SPR VEA VEA 0 BPA 0 BPA 0 PSC BPA		100 1 100 1 100 1 100 1 100 1 100 1 100 1 100
US	WECC WECC WECC WECC WECC WECC WECC WECC	AZ-NM-SNV NWPP - - - NWPP NWPP RMPA -	AC A	230 345 345 138 230 230 230 115 230 230 230	230 345 345 230 230 230 230 230 230 230 230	320 MVA 1076 MW 1076 MW 192 MVA 320 MVA 1420 Amp 1420 Amp 1420 Amp 1420 Amp	08/01/09 08/01/09 08/01/09 08/01/09 08/01/09 11/01/09 11/01/09 11/01/09 11/01/09	Stirling Mountain NV Reno NV Reno NV Stirling Mountain NV Stirling Mountain NV Olympia WA Olympia WA Olympia WA Olympia WA Olympia WA	Northwest NV Dayton NV Dayton NV Vista NV Northwest NV Shelton WA	41 20 20 25 41 14 34 6 14 14 34 34 34 34 34			0 VEA 0 SPR SPR VEA VEA 0 BPA 0 BPA 0 BPA 0 PSC BPA BPA BPA		100 100 100 100 100 100 100 100 100 100
US	WECC WECC WECC WECC WECC WECC WECC WECC	AZ-NM-SNV NWPP - - - NWPP NWPP RMPA - -	AC A	230 345 345 138 230 230 230 230 115 230 230 115	230 345 345 230 230 230 230 230 230 230 230	320 MVA 1076 MW 1076 MW 192 MVA 320 MVA 1420 Amp 1420 Amp 1420 Amp 1420 Amp 1420 Amp 1420 Amp	08/01/09 08/01/09 08/01/09 08/01/09 08/01/09 11/01/09 11/01/09 11/01/09 11/01/09 11/01/09	Stirling Mountain NV Reno NV Reno NV Reno NV Stirling Mountain NV Stirling Mountain NV Olympia WA Olympia WA Sandown CO Olympia WA Olympia WA Sandown CO Sandown CO	Northwest NV Dayton NV Dayton NV Vista NV Northwest NV Shelton WA Shelton WA Leetsdale CO Shelton WA	41			0 VEA 0 SPR SPR VEA VEA 0 BPA 0 BPA 0 PSC BPA BPA PSC		100 100 100 100 1 100 1 100 1 100 1 100 1 100 1 100 1 100
US	WECC WECC WECC WECC WECC WECC WECC WECC	AZ-NM-SNV NWPP - - - - NWPP NWPP RMPA - - - AZ-NM-SNV	AC A	230 345 345 138 230 230 230 115 230 115 230 115 230	230 345 345 230 230 230 230 230 230 230 230	320 MVA 1076 MW 1076 MW 192 MVA 320 MVA 1420 Amp 1420 AMP 1420 Amp 1420 Amp 1420 Amp 1420 Amp	08/01/09 08/01/09 08/01/09 08/01/09 08/01/09 11/01/09 11/01/09 11/01/09 11/01/09 11/01/09 11/01/09	Stirling Mountain NV Reno NV Reno NV Stirling Mountain NV Stirling Mountain NV Olympia WA Olympia WA Sandown CO Olympia WA Olympia WA El Sandown CO Olympia WA Olympia WA Sandown CO	Northwest NV Dayton NV Dayton NV Vista NV Northwest NV Shelton WA O Shelton WA Shelton WA Shelton WA	41			0 VEA 0 SPR SPR VEA VEA 0 BPA 0 BPA 0 BPA 0 PSC BPA BPA 0 PSC 0 IID		100 100 100 100 100 100 100 1100 100 10
US U	WECC WECC WECC WECC WECC WECC WECC WECC	AZ-NM-SNV NWPP - - - - NWPP NWPP NWPP RMPA - - - - - - - - - - - - - - - - - - -	AC A	230 345 345 138 230 230 230 230 230 230 230 230 230 230	230 345 345 230 230 230 230 230 230 230 230	320 MVA 1076 MW 1076 MW 1076 MW 192 MVA 320 MVA 1420 Amp 1420 Amp 1420 Amp 1420 Amp 1420 AMP 1420 AMP 1420 AMP 1420 AMP	08/01/09 08/01/09 08/01/09 08/01/09 08/01/09 11/01/09 11/01/09 11/01/09 11/01/09 11/01/09 11/01/09 11/01/09	Stirling Mountain NV Reno NV Reno NV Reno NV Stirling Mountain NV Stirling Mountain NV Olympia WA Olympia WA Sandown CO Olympia WA Sandown CO El Centro El Centro CA Slamelson CO	Northwest NV Dayton NV Dayton NV Dayton NV Vista NV Northwest NV Shelton WA Shelton WA Leetsdale CO Shelton WA Leetsdale CO 0 Garnet Mesa CO	41 20 20 25 41 14 34 6 14 14 34 34 34 34 34			0 VEA 0 SPR SPR SPR VEA VEA VEA VEA 0 BPA 0 BPA 0 BPA BPA BPA BPA PSC 0 IID 0 TSGT		100 100 100 100 100 100 100 100 100 100
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US U	WECC WECC WECC WECC WECC WECC WECC WECC	AZ-NM-SNV NWPP NWPP NWPP RMPA 	AC A	230 345 345 138 230 230 230 115 230 230 115 230 115 115 115	230 345 345 230 230 230 230 230 230 230 230 230 115 115 115	320 MVA 1076 MW 1076 MW 192 MVA 320 MVA 1420 Amp 1420 Amp 1420 Amp 1420 Amp 1420 Amp 1420 AMP 1420 AMP 1200 AMP 1200 AMP 1200 AMP 1200 AMP 1320 MVA 166 MVA 166 MVA 132 MVA	08/01/09 08/01/09 08/01/09 08/01/09 08/01/09 08/01/09 11/01/09 11/01/09 11/01/09 11/01/09 12/01/09 12/01/09 12/01/09 12/01/09	Stirling Mountain NV Reno NV Reno NV Stirling Mountain NV Stirling Mountain NV Stirling Mountain NV Olympia WA Olympia WA Olympia WA Olympia WA Sandown CO Olympia WA Sandown CO El Centro El Centro CA Stamelson CO Richard Lake CO Montrose CO Cahone CO	Northwest NV Dayton NV Dayton NV Dayton NV Vista NV Northwest NV Shelton WA Shelton WA Shelton WA Leetsdale CO Shelton WA Shelton WA Ueetsdale CO Garnet Mesa CO Wellington CO Nucla CO Nucla CO Nucla CO	41			0 VEA 0 SPR SPR SPR VEA VEA VEA VEA OBPA OBPA OPSC BPA BPA PSC O ID OTSGT OTSGT		100 100 100 100 100 100 100 100 100 100
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US U	WECC WECC WECC WECC WECC WECC WECC WECC	AZ-NM-SNV NWPP 	AC A	230 345 345 345 138 230 230 230 115 230 230 115 230 115 115 115 115 115 115 115 230 230 230 230 230 230 230 230	230 345 345 230 230 230 230 230 230 230 230	320 MVA 1076 MW 1076 MW 192 MVA 320 MVA 1420 Amp 1420 AMP	08/01/09 08/01/09 08/01/09 08/01/09 08/01/09 08/01/09 11/01/09 11/01/09 11/01/09 11/01/09 12/01/09 12/01/09 12/01/09 12/01/09 12/01/09 12/01/09 12/01/09	Stirling Mountain NV Reno NV Reno NV Stirling Mountain NV Stirling Mountain NV Stirling Mountain NV Olympia WA Olympia WA Olympia WA Olympia WA Sandown CO Olympia WA Sandown CO El Centro El Centro CA Salamelson CO Richard Lake CO Montrose CO Cahone CO Hughes WY Cheyenne WY	Northwest NV Dayton NV Dayton NV Dayton NV Vista NV Northwest NV Shelton WA Shelton WA Shelton WA Shelton WA Leetsdale CO Shelton WA Shelton WA Leetsdale CO O Garnet Mesa CO Wellington CO Nucla CO Nucla CO Sheridan WY Autt CO	41			0 VEA 0 SPR SPR SPR VEA VEA VEA VEA VEA 0 SPA 0 SPA SP		100 100 100 100 100 100 100 100 100 100
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US U	WECC WECC WECC WECC WECC WECC WECC WECC	AZ-NM-SNV NWPP	AC A	230 345 345 138 230 230 230 230 115 230 230 115 230 115 230 230 230 230 230 230 230 230 230 230	230 345 345 230 230 230 230 230 230 230 230 230 230	320 MVA 1076 MW 1076 MW 192 MVA 1420 MVA 1420 Amp 1420 Am	08/01/09 08/01/09 08/01/09 08/01/09 08/01/09 11/01/09 11/01/09 11/01/09 11/01/09 11/01/09 12/01/09 12/01/09 12/01/09 12/01/09 12/01/09 12/01/09 12/01/09 12/01/09 12/01/09 12/01/09	Stirling Mountain NV Reno NV Reno NV Stirling Mountain NV Stirling Mountain NV Stirling Mountain NV Olympia WA Olympia WA Olympia WA Olympia WA Sandown CO Olympia WA Sandown CO El Centro El Centro CA Stamelson CO Richard Lake CO Montrose CO Richard Lake CO Hughres WY Cheyenne WY El Centro El Centro CA	Northwest NV Dayton NV Dayton NV Vista NV Northwest NV Shelton WA Leetsdale CO Garnet Mesa CO Wellington CO Nucla CO Nucla CO Sheridan WY Ault CO Miracle Mile WY	41			0 VEA 0 SPR 0 SPR SPR VEA 1 VEA 0 BPA 0 BPA 0 BPA 0 PSC BPA BPA PSC 0 IID 0 TSGT 0 TSGT 0 TSGT 0 TSGT 0 TSGT 0 TSGT 0 WACM 0 WACM		100 100 100 100 100 100 100 100 100 100
US U	WECC WECC WECC WECC WECC WECC WECC WECC	AZ-NM-SNV NWPP - NWPP NWPP RMPA - - - AZ-NM-SNV RMPA RMPA RMPA RMPA RMPA	AC A	230 345 345 138 230 230 230 115 230 115 230 115 115 115 230 239 239 239 239	230 345 230 230 230 230 230 230 230 230 230 230	320 MVA 1076 MW 1076 MW 192 MVA 320 MVA 1420 Amp 1420 AMP	08/01/09 08/01/09 08/01/09 08/01/09 08/01/09 08/01/09 11/01/09 11/01/09 11/01/09 11/01/09 12/01/09 12/01/09 12/01/09 12/01/09 12/01/09 12/01/09 12/01/09 12/01/09 12/01/09 12/01/09 12/01/09 12/01/09 12/01/09 12/01/09 12/01/09	Stirling Mountain NV Reno NV Reno NV Reno NV Stirling Mountain NV Stirling Mountain NV Stirling Mountain NV Olympia WA Olympia WA Olympia WA Olympia WA Olympia WA Olympia WA Sandown CO El Centro El Centro CA Slamelson CO Hughes WY Cheyenne WY Cheyenne WY El Centro El Centro CA Slamelson CO	Northwest NV Dayton NV Dayton NV Dayton NV Vista NV Northwest NV Shelton WA Comparison CO Gamet Mesa CO Sheridan WY Ault CO Murcla CO Murcla CO Sheridan WY Ault CO Garnet Mile WY Gamet Mesa CO Gamet Mosa CO Sheridan WY Ault CO Murcla CO Sheridan WY Ault CO Garnet Mile WY Gamet Mesa CO Garnet Mesa CO	41			O VEA		100 100 100 100 100 100 100 100 100 100
US U	WECC WECC WECC WECC WECC WECC WECC WECC	AZ-NM-SNV NWPP NWPP NWPP RMPA AZ-NM-SNV RMPA RMPA RMPA RMPA RMPA RMPA RMPA RMPA	AC A	230 345 345 138 230 230 230 115 230 115 230 115 230 115 115 115 115 115 115 115 115 115 11	230 345 345 230 230 230 230 230 230 230 230	320 MVA 1076 MW 1076 MW 192 MVA 320 MVA 1420 Amp 1420 Amp 1550 MVA 1550 MVA 1550 MVA 1560 MVA	08/01/09 08/01/09 08/01/09 08/01/09 08/01/09 08/01/09 11/01/09 11/01/09 11/01/09 11/01/09 12/01/09 12/01/09 12/01/09 12/01/09 12/01/09 12/01/09 12/01/09 12/01/09 12/01/09 12/01/09 12/01/09 12/01/09 12/01/09 12/01/09 12/01/09 12/01/09	Stirling Mountain NV Reno NV Reno NV Stirling Mountain NV Stirling Mountain NV Stirling Mountain NV Olympia WA Olympia WA Olympia WA Olympia WA Olympia WA Sandown CO Olympia WA Sandown CO Cit Centro El Centro CA Slamelson CO Richard Lake CO Montrose CO Cahone CO Hughes WY Cheyenne WY El Centro El Centro CA Slamelson CO Slamelson CO Stirling WA Olympia WA Sandown CO Stirling WA Olympia WA Sandown CO Sibard Lake CO	Northwest NV Deyton NV Deyton NV Usla NV Vista NV Northwest NV Shelton WA Shelton WA Leetsdale CO Shelton WA Shelton WA Shelton WA Leetsdale CO O Garnet Mesa CO Wellington CO Nucla CO Sheridan WY Ault CO Miracle Mile WY O Garnet Mesa CO O Garnet Mesa CO O Scheridan WY O Miracle Mile WY O Garnet Mesa CO O Miracle Mile WY O Garnet Mesa CO O Miracle Mile WY O Garnet Mesa CO O Miracle Mile WO O Garnet Mesa CO O Miracle Mile WO O Garnet Mesa CO O O Miracle Mile WO O O Garnet Mesa CO O Miracle Mile CO O O O O O O O O O O O O O O O O O O	41			O VEA O VEA O SPR SPR VEA VEA O BPA O BPA O BPA O BPA O PSC BPA BPA PSC O IID O TSGT O TSGT O TSGT O TSGT O TSGT O WACM O WACM IID TSGT TSGT TSGT TSGT TSGT TSGT TSGT TSG		1 100 1 100
US U	WECC WECC WECC WECC WECC WECC WECC WECC	AZ-NM-SNV NWPP NWPP NWPP RMPA AZ-NM-SNV RMPA RMPA RMPA RMPA RMPA RMPA RMPA	AC A	230 345 345 138 230 230 230 115 230 115 230 115 115 115 239 239 239 239 115 115 115	230 345 230 230 230 230 230 230 230 230	320 MVA 1076 MW 1076 MW 192 MVA 320 MVA 1420 Amp 1420 AMP 166 MVA 402 MVA 402 MVA 166 MVA	08/01/09 08/01/09 08/01/09 08/01/09 08/01/09 08/01/09 11/01/09 11/01/09 11/01/09 12/01/09 12/01/09 12/01/09 12/01/09 12/01/09 12/01/09 12/01/09 12/01/09 12/01/09 12/01/09 12/01/09 12/01/09 12/01/09 12/01/09 12/01/09 12/01/09 12/01/09 12/01/09 12/01/09	Stirling Mountain NV Reno NV Reno NV Reno NV Stirling Mountain NV Stirling Mountain NV Stirling Mountain NV Olympia WA Olympia WA Olympia WA Olympia WA Sandown CO El Centro El Centro CA Slamelson CO Houghes WY Cheyenne WC	Northwest NV Deyton NV Dayton NV Dayton NV Vista NV Northwest NV Shelton WA Leetsdale CO Garnet Mesa CO Wucla CO Nucla CO Nucla CO Nucla CO Miracle Mile WY Garnet Mesa CO Willington CO	41			O VEA		1 100 1 100
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US U	WECC WECC WECC WECC WECC WECC WECC WECC	AZ-NM-SNV NWPP NWPP NWPP RMPA 	AC A	230 345 345 138 230 230 230 230 230 230 230 115 230 115 230 115 115 230 239 115 115 115 239 239 239 115 115 239 239 239 230 230 230 230 230 230 230 230 230 230	230 345 230 230 230 230 230 230 230 230	320 MVA 1076 MW 192 MVA 132 MVA 1420 Amp 1420 Am	08/01/09 08/01/09 08/01/09 08/01/09 08/01/09 08/01/09 08/01/09 08/01/09 11/01/09 11/01/09 11/01/09 11/01/09 11/01/09 12/01/09	Stirling Mountain NV Reno NV Reno NV Reno NV Stirling Mountain NV Stirling Mountain NV Stirling Mountain NV Olympia WA Olympia WA Sandown CO Olympia WA Sandown CO El Centro El Centro CA Slameison CO Richard Lake CO Montrose CO Cahone CO Richard Lake CO Cheyenne WY Cheyenne WY Cheyenne WY Cheyenne WC Cheyenne	Northwest NV Dayton NV Dayton NV Dayton NV Vista NV Northwest NV Shelton WA Shelton WA Shelton WA Shelton WA Leetsdale CO Garnet Mesa CO Wellington CO Nucla CO Nucla CO Miracle Mile WY Garnet Mesa CO Wellington CO Miracle Mile WY O Garnet Mesa CO Nucla CO Nucla CO Nucla CO Nucla CO Miracle Mile WY O Miracle Mile CO Miracle Mile CO Miracle CO Nucla CO	411 20 20 20 25 41 144 34 6 6 144 34 6 6 9 15 7 37 44 105 7 37 44 105			O VEA O VEA O SPR SPR VEA VEA VEA O BPA O BPA O BPA BPA BPA PSC O ID O TSGT O TSGT O TSGT O WACM O WACM O TSGT		1 100 1 100
US U	WECC WECC WECC WECC WECC WECC WECC WECC	AZ-NM-SNV NWPP NWPP NWPP RMPA AZ-NM-SNV RMPA RMPA RMPA RMPA RMPA RMPA	AC A	230 345 345 138 230 230 230 230 230 230 230 115 230 115 230 115 230 115 230 115 230 115 230 115 230 115 230 115 230 115 230 230 230 230 230 230 230 230 230 230	230 345 230 230 230 230 230 230 230 230 230 230	320 MVA 1076 MW 1076 MW 192 MVA 320 MVA 1420 Amp 1420 Amp	08/01/09 08/01/09 08/01/09 08/01/09 08/01/09 08/01/09 08/01/09 08/01/09 11/01/09 11/01/09 11/01/09 11/01/09 11/01/09 12/01/09	Sitriing Mountain NV Reno NV Reno NV Reno NV Sitriing Mountain NV Sitriing Mountain NV Sitriing Mountain NV Olympia WA Olympia WA Olympia WA Olympia WA Sandown CO Olympia WA Sandown CO El Centro El Centro CA Slamelson CO Hughes WY Cheyenne WY El Centro El Centro CA Slamelson CO Richard Lake CO Montrose CO Cahone CO Richard Lake CO Richard Lake CO Montrose CO Cahone CO Cheyenne WY Cheyenne WY Cheyenne WY Cheyenne WY Cheyenne CO Cahone CO Cahone CO Cahone CO Cheyene WY	Northwest NV Deayton NV Deayton NV Deayton NV Vista NV Northwest NV Shelton WA O Garnet Mesa CO Nucla CO Nucla CO Sheridan WY Ault CO Wellington CO Wellington CO Wellington CO Nucla CO Sheridan WY Ault CO Sheridan WY Nucla CO Sheridan WS	41			O VEA		100 100 100 100 100 100 100 100 100 100
US U	WECC WECC WECC WECC WECC WECC WECC WECC	AZ-NM-SNV NWPP NWPP NWPP RMPA 	AC A	230 345 345 138 230 230 230 230 230 230 115 230 115 230 115 115 230 239 239 239 239 230 115 115 230 230 230 230 230 230 230 230 230 230	230 345 346 230 230 230 230 230 230 230 230	320 MVA 1076 MW 1076 MW 132 MVA 320 MVA 1420 Amp 1420 Amp 1550 MVA 166 MVA 402 MVA 402 MVA 402 MVA 403 MVA 404 MVA 404 MVA 405 MVA 406 MVA 407 MVA 408	08/01/09 08/01/09 08/01/09 08/01/09 08/01/09 08/01/09 08/01/09 08/01/09 11/01/09 11/01/09 11/01/09 11/01/09 12/01/09	Stirling Mountain NV Reno NV Reno NV Stirling Mountain NV Stirling Mountain NV Stirling Mountain NV Stirling Mountain NV Olympia WA Olympia WA Olympia WA Olympia WA Sandown CO El Centro El Centro CA Slamelson CO El Centro El Centro CA Slamelson CO Hughes WY Cheyenne WY Cheyenne WY El Centro El Centro CA Slamelson CO Richard Lake CO Montrose CO Cahone CO Hughes WY Cheyenne WY Cheyenne WY Cheyenne WY Cheyenne WY Cheyenne CO Cahone CO Cahone CO Cahone CO Cahone CO Cheyenne WY	Northwest NV Deyton NV Dayton NV Dayton NV Vista NV Northwest NV Shelton WA Shelton WA Shelton WA Shelton WA Shelton WA Leetsdale CO O Garnet Mesa CO Wellington CO Nucla CO Nucla CO Mucla CO Miracle Mile WY Quantification Miracle Mile WY Autr CO Nucla CO Nucla CO Nucla CO Nucla CO Miracle Mile WY Autr CO Nucla CO Nu	411 20 20 20 25 41 144 34 6 6 144 34 6 6 9 15 7 37 44 105 7 37 44 105			O VEA		100 100 100 100 100 100 100 100 100 100
US U	WECC WECC WECC WECC WECC WECC WECC WECC	AZ-NM-SNV NWPP NWPP NWPP RMPA AZ-NM-SNV RMPA RMPA RMPA RMPA RMPA RMPA RMPA RMPA	AC A	230 345 345 138 230 230 230 230 230 230 230 115 230 115 230 115 230 115 230 115 230 115 230 115 230 115 230 115 230 115 230 230 230 230 230 230 230 230 230 230	230 345 230 230 230 230 230 230 230 230 230 230	320 MVA 1076 MW 1076 MW 192 MVA 320 MVA 1420 Amp 1420 Amp	08/01/09 08/01/09 08/01/09 08/01/09 08/01/09 08/01/09 08/01/09 08/01/09 11/01/09 11/01/09 11/01/09 11/01/09 12/01/09	Sitriing Mountain NV Reno NV Reno NV Reno NV Sitriing Mountain NV Sitriing Mountain NV Sitriing Mountain NV Olympia WA Olympia WA Olympia WA Olympia WA Sandown CO Olympia WA Sandown CO El Centro El Centro CA Slamelson CO Hughes WY Cheyenne WY El Centro El Centro CA Slamelson CO Richard Lake CO Montrose CO Cahone CO Richard Lake CO Richard Lake CO Montrose CO Cahone CO Cheyenne WY Cheyenne WY Cheyenne WY Cheyenne WY Cheyenne CO Cahone CO Cahone CO Cahone CO Cheyene WY	Northwest NV Deayton NV Deayton NV Deayton NV Vista NV Northwest NV Shelton WA O Garnet Mesa CO Nucla CO Nucla CO Sheridan WY Ault CO Wellington CO Wellington CO Wellington CO Nucla CO Sheridan WY Ault CO Sheridan WY Nucla CO Sheridan WS	41			O VEA		1 100 1 100
US U	WECC WECC WECC WECC WECC WECC WECC WECC	AZ-NM-SNV NWPP NWPP NWPP RMPA AZ-NM-SNV RMPA RMPA RMPA RMPA RMPA RMPA RMPA RMPA	AC A	230 345 345 138 230 230 230 230 230 230 115 230 115 115 115 115 115 230 239 239 239 230 115 115 230 230 230 230 230 230 230 230 230 230	230 345 346 230 230 230 230 230 230 230 230	320 MVA 1076 MW 1076 MW 132 MVA 320 MVA 1420 Amp 1420 Amp 1550 MVA 166 MVA 402 MVA 402 MVA 402 MVA 403 MVA 404 MVA 404 MVA 405 MVA 406 MVA 407 MVA 408	08/01/09 08/01/09 08/01/09 08/01/09 08/01/09 08/01/09 08/01/09 08/01/09 11/01/09 11/01/09 11/01/09 11/01/09 12/01/09	Sitriing Mountain NV Reno NV Reno NV Reno NV Sitriing Mountain NV Sitriing Mountain NV Sitriing Mountain NV Olympia WA Olympia WA Olympia WA Olympia WA Olympia WA Olympia WA Colympia WA Olympia WA Olympia WA Sandown CO Colympia WA Olympia WA Sandown CO Colympia WA Olympia WA Colympia WA Cheyenne WY Las Vegas NV	Northwest NV Deyton NV Dayton NV Dayton NV Vista NV Northwest NV Shelton WA Shelton WA Shelton WA Shelton WA Shelton WA Leetsdale CO O Garnet Mesa CO Wellington CO Nucla CO Nucla CO Mucla CO Miracle Mile WY Quantification Miracle Mile WY Autr CO Nucla CO Nucla CO Nucla CO Nucla CO Miracle Mile WY Autr CO Nucla CO Nu	41			O VEA		100 100 100 100 100 100 100 100 100 100
US U	WECC WECC WECC WECC WECC WECC WECC WECC	AZ-NM-SNV NWPP NWPP NWPP NWPP RMPA AZ-NM-SNV AZ-NM-SNV AZ-NM-SNV AZ-NM-SNV	AC A	230 345 345 138 230 230 230 230 230 230 230 230 115 230 115 230 115 115 115 230 299 239 230 115 230 230 230 230 230 230 230 230 230 230	230 345 230 230 230 230 230 230 230 230 230 230	320 MVA 1076 MW 192 MVA 320 MVA 1420 Amp 1420 Amp 1550 MVA 460 MVA 460 MVA 470 MVA 480 MVA	08/01/09 08/01/09 08/01/09 08/01/09 08/01/09 08/01/09 08/01/09 08/01/09 11/01/09 11/01/09 11/01/09 11/01/09 12/01/09 03/01/10	Stirling Mountain NV Reno NV Reno NV Stirling Mountain NV Stirling Mountain NV Stirling Mountain NV Stirling Mountain NV Olympia WA Olympia WA Olympia WA Olympia WA Sandown CO El Centro El Centro CA Stamelson CO Richard Lake CO Montrose CO Richard Lake CO Montrose CO Cheyenne WY Cheyenne WY El Centro El Centro CA Stamelson CO Richard Lake CO Montrose CO Cheyenne WY Las Vegas NV	Northwest NV Dayton NV Dayton NV Dayton NV Vista NV Northwest NV Shelton WA Leetsdale CO O Garnet Mesa CO Wellington CO Nucla CO Nucla CO Sheridan WY Ault CO Wellington CO Wellington CO Sheridan WY O Garnet Mesa CO Wellington CO Nucla CO Sheridan WY Mucla CO Muc	41			O VEA		100 100 100 100 100 100 100 100 100 100
US U	WECC WECC WECC WECC WECC WECC WECC WECC	AZ-NM-SNV NWPP NWPP NWPP RMPA AZ-NM-SNV RMPA RMPA RMPA RMPA RMPA RMPA RMPA RMPA	AC A	230 345 345 138 230 230 230 230 230 230 115 230 115 115 115 115 115 230 239 239 239 230 115 115 230 230 230 230 230 230 230 230 230 230	230 345 345 230 230 230 230 230 230 230 230	320 MVA 1076 MW 1076 MW 132 MVA 320 MVA 1420 Amp 1420 Amp 1550 MVA 166 MVA 402 MVA	08/01/09 08/01/09 08/01/09 08/01/09 08/01/09 08/01/09 08/01/09 08/01/09 11/01/09 11/01/09 11/01/09 11/01/09 12/01/09 03/01/10 03/01/10	Sidriing Mountain NV Reno NV Reno NV Reno NV Sidriing Mountain NV Sidriing Mountain NV Sidriing Mountain NV Olympia WA Olympia WA Olympia WA Olympia WA Olympia WA Sandown CO El Centro El Centro CA Slamelson CO Richard Lake CO Montrose CO Cahone CO Hughes WY Cheyenne WY Cheyenne WY Cheyenne WY Cheyenne CO Richard Lake CO Montrose CO Cahone CO Hughes WY Cheyenne WY Las Vegas NV Las Vegas NV Las Vegas NV Las Vegas NV	Northwest NV Dayton NV Dayton NV Dayton NV Vista NV Northwest NV Shelton WA Leetsdale CO Garnet Mesa CO Wellington CO Nucla CO Nucla CO Nucla CO Miracle Mile WY Garnet Mesa CO Wellington CO Nucla CO Nucla CO Nucla CO Sheridan WY Ault CO Miracle Mile WY Garnet Mesa CO Wellington CO Nucla CO Miracle Mile WY Las Vegas NV	41			O VEA		1 100 1 100
US U	WECC WECC WECC WECC WECC WECC WECC WECC	AZ-NM-SNV NWPP NWPP NWPP NWPP RMPA	AC A	230 345 138 230 230 230 230 230 230 230 230 230 230	230 345 230 230 230 230 230 230 230 230 230 230	320 MVA 1076 MW 1076 MW 1192 MVA 320 MVA 1420 Amp 1420 MP 1550 MVA 166 MVA 402 MVA	08/01/09 08/01/09 08/01/09 08/01/09 08/01/09 08/01/09 08/01/09 08/01/09 11/01/09 11/01/09 11/01/09 11/01/09 12/01/09 03/01/10 03/01/10 03/01/10	Stirling Mountain NV Reno NV Reno NV Reno NV Stirling Mountain NV Stirling Mountain NV Stirling Mountain NV Olympia WA Olympia WA Olympia WA Olympia WA Sandown CO Olympia WA Sandown CO Olympia WA Sandown CO Calchart GEI Centro CA Stamelson CO Richard Lake CO Montrose CO Cahone CO Hughes WY Cheyenne WY EI Centro EI Centro CA Slamelson CO Richard Lake CO Montrose CO Cabone CO Hughes WY Cheyenne WY Cheyenne WY Cheyenne WY Cheyenne WY Cheyenne WY Cheyenne WY Las Vegas WY Las Vegas NV Las Vegas NV Las Vegas NV Las Vegas NV	Northwest NV Dayton NV Dayton NV Dayton NV Vista NV Northwest NV Shelton WA Shelton WA Shelton WA Shelton WA Shelton WA Leetsdale CO O Garnet Mesa CO Wellington CO Nucla CO Nucla CO Nucla CO Sheridan WY Ault CO Miracle Mile WY O Garnet Mesa CO Willington CO Nucla CO Sheridan WY Ault CO Nucla CO Sheridan WY Ault CO Nucla CO Sheridan WY Ault CO Nucla CO Sheridan WY Ault CO Sheridan WY	41			O VEA		100 100 100 100 100 100 100 100 100 100
US U	WECC	AZ-NM-SNV NWPP NWPP NWPP RMPA AZ-NM-SNV RMPA RMPA RMPA RMPA RMPA RMPA RMPA RMPA	AC A	230 345 345 138 230 230 230 115 230 230 115 115 115 115 115 230 239 239 239 230 115 115 239 239 239 230 230 230 230 230 230 230 230 230 230	230 345 230 230 230 230 230 230 230 230 230 230	320 MVA 1076 MW 192 MVA 1320 MVA 1420 Amp 1420 Amp 1550 MVA 166 MVA 402 MVA 402 MVA 402 MVA 402 MVA 132 MVA 132 MVA 132 MVA 132 MVA 132 MVA 1420 MV	08/01/09 08/01/09 08/01/09 08/01/09 08/01/09 08/01/09 08/01/09 08/01/09 08/01/09 11/01/09 11/01/09 11/01/09 11/01/09 11/01/09 12/01/09	Sidriing Mountain NV Reno NV Reno NV Reno NV Sidriing Mountain NV Sidriing Mountain NV Sidriing Mountain NV Sidriing Mountain NV Olympia WA Sandown CO Olympia WA Olympia WA Sandown CO El Centro El Centro CA Slamelson CO Richard Lake CO Montrose CO Cahone CO Hughes WY Cheyenne WY Las Vegas NV	Northwest NV Dayton NV Dayton NV Dayton NV Vista NV Northwest NV Shelton WA Shelton WA Shelton WA Shelton WA Shelton WA Leetsdale CO Garnet Mesa CO Wellington CO Nucla CO Nucla CO Miracle Mile WY Garnet Mesa CO Wellington CO Nucla CO Nucla CO Nucla CO Nucla CO Nucla CO Nucla CO Miracle Mile WY User Nucla CO Miracle Mile WY Las Vegas NV	41			O VEA		100 100 100 100 100 100 100 100 100 100
US U	WECC	AZ-NM-SNV NWPP NWPP NWPP RMPA AZ-NM-SNV RMPA RMPA RMPA RMPA RMPA RMPA RMPA RMPA	AC A	230 345 345 138 220 230 115 230 115 115 115 115 230 239 239 230 115 115 115 239 239 239 230 115 230 230 230 230 230 230 230 230 230 230	230 345 230 230 230 230 230 230 230 230	320 MVA 1076 MW 1076 MW 132 MVA 320 MVA 1420 Amp 1420 Amp 1550 MVA 156 MVA 120 MVA 140 MVA	08/01/09 08/01/09 08/01/09 08/01/09 08/01/09 08/01/09 08/01/09 08/01/09 08/01/09 11/01/09 11/01/09 11/01/09 11/01/09 12/01/09 03/01/10 03/01/10 03/01/10 03/01/10	Sitring Mountain NV Reno NV Reno NV Reno NV Sitring Mountain NV Sitring Mountain NV Sitring Mountain NV Olympia WA Olympia WA Olympia WA Olympia WA Sandown CO Olympia WA Sandown CO Caton CO Richard Lake CO Montrose CO Catone CO Richard Lake CO Montrose CO Catone CO Hughes WY Cheyenne WY El Centro El Centro CA Slamelson CO Richard Lake CO Montrose CO Catone CO Hughes WY Cheyenne WY El Centro El Centro CA Slamelson CO Richard Lake CO Montrose CO Cabone CO Hughes WY Cheyenne WY El Centro El Centro CA Slamelson CO Richard Lake CO Montrose CO Cahone CO Hughes WY Les Vegas NV Las Vegas NV	Northwest NV Dayton NV Dayton NV Dayton NV Vista NV Northwest NV Shelton WA Shelton WA Shelton WA Leetsdale CO Sheridan WA Shelton WA Leetsdale CO O Garnet Mesa CO Wellington CO Nucla CO Nucla CO Sheridan WY Ault CO Miracle Mile WY O Garnet Mesa CO Willington CO Nucla CO Sheridan WY Ault CO Nucla CO Sheridan WY Ault CO Nucla CO Sheridan WY Ault CO Nucla CO Sheridan WY Las Vegas NV L	41			O VEA		100 100 100 100 100 100 100 100 100 100
US U	WECC	AZ-NM-SNV NWPP NWPP NWPP RMPA	AC A	230 230 345 345 345 346 138 230 230 230 230 230 230 230 115 230 115 115 230 239 239 239 230 230 230 230 230 230 230 230 230 230	230 345 230 230 230 230 230 230 230 230	320 MVA 1076 MW 192 MVA 320 MVA 1420 Amp 1420 Amp 1550 MVA 166 MVA 402 MVA 402 MVA 105 MVA 10	08/01/09 08/01/09 08/01/09 08/01/09 08/01/09 08/01/09 08/01/09 08/01/09 08/01/09 11/01/09 11/01/09 11/01/09 11/01/09 12/01/09 12/01/09 12/01/09 12/01/09 12/01/09 12/01/09 12/01/09 12/01/09 12/01/09 12/01/09 12/01/09 12/01/09 12/01/09 03/01/10 03/01/10 03/01/10 03/01/10 03/01/10 03/01/10	Sidriing Mountain NV Reno NV Reno NV Reno NV Sidriing Mountain NV Olympia WA Sandown CO Olympia WA Sandown CO El Centro El Centro CA Slameison CO Richard Lake CO Montrose CO Cahone CO Hughes WY Cheyenne WY El Centro El Cen	Northwest NV Dayton NV Dayton NV Dayton NV Dayton NV Vista NV Northwest NV Shelton WA Shelton WA Shelton WA Leetsdale CO Sheridan WA Shelton WA Leetsdale CO O Garnet Mesa CO Wellington CO Nucla CO Nucla CO Mucla CO Miracle Mile WY Garnet Mesa CO Wellington CO Mucla CO Nucla CO Nucla CO Miracle Mile WY Leetsdale WY Usa Vegas NV Las Vegas NV Las Vegas NV Platteville CO Las Vegas NV Las Vegas NV Platteville CO Lusa Vegas NV Las Vegas NV Platteville CO Lusa Vegas NV Platteville CO Lucals Vegas NV Las Vegas NV Platteville CO Lucals Vegas NV Platteville CO Lucyland CO	41			O VEA		100 100 100 100 100 100 100 100 100 100
US U	WECC	AZ-NM-SNV NWPP NWPP NWPP NWPP RMPA AZ-NM-SNV RMPA RMPA RMPA RMPA RMPA RMPA RMPA RMPA	AC A	230 345 345 138 230 230 230 115 230 115 115 115 230 115 115 239 239 239 230 115 115 230 230 230 230 230 230 230 230 230 230	230 345 230 230 230 230 230 230 230 230	320 MVA 1076 MW 1076 MW 132 MVA 320 MVA 1420 Amp 1420 Amp 1550 MVA 156 MVA 120 MVA 140 MVA	08/01/09 08/01/09 08/01/09 08/01/09 08/01/09 08/01/09 08/01/09 08/01/09 08/01/09 01/01/09 11/01/09 11/01/09 11/01/09 11/01/09 12/01/09 12/01/09 12/01/09 12/01/09 12/01/09 12/01/09 12/01/09 12/01/09 12/01/09 12/01/09 12/01/09 12/01/09 12/01/09 03/01/10 04/01/10	Sitring Mountain NV Reno NV Reno NV Reno NV Sitring Mountain NV Sitring Mountain NV Sitring Mountain NV Sitring Mountain NV Olympia WA Olympia WA Olympia WA Olympia WA Sandown CO Olympia WA Sandown CO Cathore CO Richard Lake CO Montrose CO Cathone CO Richard Lake CO Montrose CO Cathone CO Hughes WY Cheyenne WY El Centro El Centro CA Slamelson CO Richard Lake CO Montrose CO Cathone CO Hughes WY Cheyenne WY Les Vegas NV Las Vegas NV Longmont CO Fort Collins CO Fort Collins CO	Northwest NV Deyton NV Usel on NV Deyton NV Vista NV Northwest NV Shelton WA Shelton WA Leetsdale CO Sheridon WA Shelton WA Leetsdale CO O Garnet Mesa CO Wellington CO Nucla CO Nucla CO Nucla CO Miracle Mile WY O Garnet Mesa CO Miracle Mile WO Las Vegas NV Las Vegas NV Platteville CO Las Vegas NV Platteville CO Loveland CO	41			O VEA		100 100 100 100 100 100 100 100 100 100
US U	WECC	AZ-NM-SNV NWPP NWPP RMPA AZ-NM-SNV RMPA RMPA RMPA RMPA RMPA RMPA RMPA RMPA	AC A	230 345 345 345 230 230 230 230 230 230 230 115 230 115 115 230 231 115 115 230 239 239 239 230 115 230 230 230 230 230 230 230 230 230 230	230 345 230 230 230 230 230 230 230 230	320 MVA 1076 MW 192 MVA 320 MVA 1420 Amp 1420 Amp 1550 MVA 166 MVA 402 MVA 402 MVA 105 MVA 10	08/01/09 08/01/09 08/01/09 08/01/09 08/01/09 08/01/09 08/01/09 08/01/09 08/01/09 11/01/09 11/01/09 11/01/09 11/01/09 12/01/09 03/01/10 03/01/10 03/01/10 03/01/10 03/01/10 03/01/10 04/01/10 04/01/10	Sidring Mountain NV Reno NV Reno NV Reno NV Sidring Mountain NV Olympia WA Sandown CO Olympia WA Sandown CO El Centro El Centro CA Siamelson CO El Centro El Centro CA Siamelson CO Hughes WY Cheyenne WY Cheyenne WY El Centro El Centro CA Siamelson CO Richard Lake CO Montrose CO Cahone CO Hughes WY Cheyenne WY Longmon CO Cahone CO Labone CO Cheyenne WY Las Vegas NV Las Vegas NV Las Vegas NV Longmont CO Las Vegas NV Longmont CO Fort Collins CO	Northwest NV Dayton NV Dayton NV Dayton NV Dayton NV Vista NV Northwest NV Shelton WA Shelton WA Shelton WA Shelton WA Leetsdale CO Garnet Mesa CO Wellington CO Nucla CO Nucla CO Sheridan WY Ault CO Miracle Mile WY Wellington CO Nucla CO Nucla CO Nucla CO Sheridan WY Ault CO Miracle Mile WY Las Vegas NV Lucker Mile CO Loveland CO L	41			O VEA		100 100 100 100 100 100 100 100 100 100
US U	WECC	AZ-NM-SNV NWPP NWPP NWPP RMPA AZ-NM-SNV RMPA RMPA RMPA RMPA RMPA RMPA RMPA RMPA	AC A	230 345 345 138 230 230 230 115 230 115 115 230 230 115 115 115 230 239 239 239 230 115 115 230 230 230 230 230 230 230 230 230 230	230 345 230 230 230 230 230 230 230 230	320 MVA 1076 MW 1076 MW 129 MVA 320 MVA 1420 Amp 1420 MM 156 MVA 120 MVA 156 MVA 120 MVA 120 MVA 140 MVA	08/01/09 08/01/09 08/01/09 08/01/09 08/01/09 08/01/09 08/01/09 08/01/09 08/01/09 01/01/09 11/01/09 11/01/09 11/01/09 11/01/09 12/01/09 12/01/09 12/01/09 12/01/09 12/01/09 12/01/09 12/01/09 12/01/09 12/01/09 12/01/09 12/01/09 12/01/09 12/01/09 03/01/10 05/01/10 05/01/10	Sidring Mountain NV Reno NV Reno NV Reno NV Sidring Mountain NV Olympia WA Sandown CO Olympia WA Olympia WA Sandown CO Colympia WA Sidring Mountain NV Olympia WA Sandown CO Colympia WA Sidring WA Colympia WA Sidring WA Colympia WA Sidring WA Colympia WA Sidring WA Colympia WA Colympia WA Colympia WA Colympia WA Colympia WA Cheyenne CO Cahone CO Hughes WY Cheyenne WY C	Northwest NV Deyton NV Deyton NV Deyton NV Vista NV Northwest NV Shelton WA Shelton WA Leetsdale CO Sheridon WA Shelton WA Leetsdale CO Garnet Mesa CO Wellington CO Nucla CO Nucla CO Nucla CO Maracle Mile WY Garnet Mesa CO Maracle Mile WY User Maracle Mile WY O Garnet Mesa CO Muracle Mile WY O Garnet Mesa CO Nucla CO Las Vegas NV Las V	41			O VEA		100 100 100 100 100 100 100 100 100 100
US U	WECC	AZ-NM-SNV NWPP NWPP RMPA AZ-NM-SNV RMPA RMPA RMPA RMPA RMPA RMPA RMPA RMPA	AC A	230 345 345 345 230 230 230 230 230 230 230 115 230 115 115 230 231 115 115 230 239 239 239 230 115 230 230 230 230 230 230 230 230 230 230	230 345 230 230 230 230 230 230 230 230	320 MVA 1076 MW 1076 MW 1076 MW 1192 MVA 320 MVA 1420 Amp 1420 MP 1550 MVA 166 MVA 232 MVA 132 MVA 402 MVA	08/01/09 08/01/09 08/01/09 08/01/09 08/01/09 08/01/09 08/01/09 08/01/09 08/01/09 08/01/09 11/01/09 11/01/09 11/01/09 11/01/09 12/01/09 12/01/09 12/01/09 12/01/09 12/01/09 12/01/09 12/01/09 12/01/09 12/01/09 12/01/09 12/01/09 12/01/09 12/01/09 03/01/10 05/01/10 05/01/10	Sidring Mountain NV Reno NV Reno NV Reno NV Sidring Mountain NV Olympia WA Sandown CO Olympia WA Sandown CO El Centro El Centro CA Siamelson CO El Centro El Centro CA Siamelson CO Hughes WY Cheyenne WY Cheyenne WY El Centro El Centro CA Siamelson CO Richard Lake CO Montrose CO Cahone CO Hughes WY Cheyenne WY Longmon CO Cahone CO Labone CO Cheyenne WY Las Vegas NV Las Vegas NV Las Vegas NV Longmont CO Las Vegas NV Longmont CO Fort Collins CO	Northwest NV Dayton NV Dayton NV Dayton NV Dayton NV Vista NV Northwest NV Shelton WA Shelton WA Shelton WA Shelton WA Leetsdale CO Garnet Mesa CO Wellington CO Nucla CO Nucla CO Sheridan WY Ault CO Miracle Mile WY Wellington CO Nucla CO Nucla CO Nucla CO Sheridan WY Ault CO Miracle Mile WY Las Vegas NV Lucker Mile CO Loveland CO L	41			O VEA		100 100 100 100 100 100 100 100 100 100

	MPA A	AC 230	230	500 MVA 0			Tower CO	-8			0 PSC		100
US WECC RM	MPA A	AC 230	230	506 MVA 0	05/01/10	Comanche CO	Fuller CO	-78			0 PSC		100
US WECC RM	MPA A	AC 230	230	800 MVA 0	05/01/10	Midway CO	Daniels Park #2 CO	-75			0 PSC		100
		AC 230	230			Comanche CO	Midway CO	50			0 PSC		100
		AC 230	230			Midway CO	Fuller CO	30			0 PSC	l l	100
US WECC RM	MPA A	AC 345	345	1200 MVA 0	05/01/10	Comanche CO	Daniels Park #1 CO	125			0 PSC	I	100
US WECC RM	MPA A	AC 345	345	1200 MVA 0	05/01/10	Comanche CO	Daniels Park #2 CO	125			0 PSC		100
US WECC		AC 345	345			St. George, UT	St. George, UT	20			PAC		100
								20					
US WECC		AC 345	345			Bluffdale UT	SLC UT	0			PAC	I	100
US WECC	- A	AC 230	230	800 MVA 0	05/01/10	Midway CO	Daniels Park #2 CO	-75			PSC		100
US WECC		AC 230	230		05/01/10		Midway CO	50			PSC		100
US WECC		AC 230	230			Midway CO	Fuller CO	30			PSC		100
		AC 345	345			Comanche CO	Daniels Park #1 CO	125			PSC		100
		AC 345	345			Comanche CO	Daniels Park #2 CO	125			PSC		100
US WECC	- A	AC 230	230	500 MVA 0	05/01/10	Chambers CO	Spruce CO	8			PSC		100
US WECC	- A	AC 230	230	500 MVA 0	05/01/10	Chambers CO	Tower CO	8			PSC		100
US WECC		AC 230	230			Spruce CO	Tower CO	0			PSC		100
								70					
US WECC		AC 230	230			Comanche CO	Fuller CO	-78			PSC		100
		AC 230	230			West Phoenix AZ	West Phoenix AZ	15			0 APS		100
US WECC AZ-N	M-SNV A	AC 230	230	1200 MVA 0	06/01/10	Peoria AZ	Pioneer AZ	9			0 APS	I	100
US WECC AZ-N	M-SNV A	AC 230	230	1200 MVA 0	06/01/10	West Phoenix AZ	West Phoenix AZ	15			0 APS		100
US WECC AZ-NI		AC 230	230			West Phoenix AZ	West Phoenix AZ	15			0 APS		100
								10		+		+	
		AC 230	230			Phoenix AZ	Phoenix AZ	4		1 1	0 APS	l	100
		AC 230	230			Phoenix AZ	Phoenix AZ	12		<u> </u>	0 APS		100
	M-SNV A	AC 230	230	810 MVA 0	06/01/10	Las Vegas NV	Las Vegas NV	18			0 NEVP		100
US WECC AZ-N		AC 230	230			Las Vegas NV	Las Vegas NV	18		1 1	0 NEVP	i	100
US WECC AZ-N		AC 230	230		06/04/40	Las Vegas NV				1 1	0 NEVP	+	100
							Las Vegas NV	4		 			
US WECC AZ-NI		AC 500	500			Palo Verde AZ	Phoenix AZ	45		1	0 APS		100
US WECC AZ-N	M-SNV A	AC 500	500	1000 MVA 0	06/01/10	Table Mesa AZ	Phoenix AZ	26			0 APS		100
		AC 500	500			Table Mesa AZ	Table Mesa AZ	1			0 APS	i	100
US WECC AZ-N		AC 525	500			Las Vegas NV		8		 	0 NEVP	-	100
							Las Vegas NV	0		+ + + + + + + + + + + + + + + + + + + +		+!	
		AC 525	500			Las Vegas NV	Las Vegas NV	8		1 1	0 NEVP	l	100
		AC 230	230	797 MVA 0	06/01/10	San Diego CA	San Diego CA	15			0 SDGE		100
		AC 230	230	697 MVA 0	06/01/10	Mountain Home ID	Boise ID	36			0 IPC		100
		AC 230	230			Midpoint, ID	King, ID	24			0 IPC	i	100
		AC 230	230	339 MVA 0	06/01/10	King, ID	DRAM, ID	80			0 IPC		100
US WECC NV	NPP A	AC 230	230	339 MVA 0	06/01/10	Midpoint, ID	DRAM, ID	-104			0 IPC		100
US WECC NV	NPP A	AC 230	230	0	06/01/10	Walla Walla, WA	McNary, OR	0			0 PAC		100
		AC 345	345			Downey, ID	SLC UT	135			0 PAC		100
								36	-		IPC		
US WECC	- A	AC 230	230			Mountain Home ID	Boise ID						100
US WECC		AC 230	230	339 MVA 0	06/01/10	Midpoint, ID	King, ID	24			IPC		100
US WECC	- A	AC 230	230	339 MVA 0	06/01/10	King, ID	DRAM, ID	80			IPC		100
US WECC	- A	AC 230	230			Midpoint, ID	DRAM, ID	-104			IPC		100
US WECC		AC 230	230			Walla Walla, WA	McNary, OR	.01					100
											PAC		
US WECC	- A	AC 345	345	0		Downey, ID	SLC UT	135			PAC	I	100
	- A			0	06/01/10			135 15					100
US WECC US WECC	- A	AC 345 AC 230	345 230	1200 MVA 0	06/01/10	Downey, ID West Phoenix AZ	SLC UT West Phoenix AZ				PAC APS		I 100 I 100
US WECC US WECC US WECC	- A - A	AC 345 AC 230 AC 230	345 230 230	1200 MVA 0	06/01/10 06/01/10 06/01/10	Downey, ID West Phoenix AZ Peoria AZ	SLC UT West Phoenix AZ Pioneer AZ	15 9			PAC APS APS		1 100 1 100 1 100
US WECC US WECC US WECC US WECC	- A - A - A	AC 345 AC 230 AC 230 AC 230	345 230 230 230	1200 MVA 0 1200 MVA 0 1200 MVA 0	06/01/10 06/01/10 06/01/10 06/01/10	Downey, ID West Phoenix AZ Peoria AZ West Phoenix AZ	SLC UT West Phoenix AZ Pioneer AZ West Phoenix AZ	15 9 15			PAC APS APS APS APS		100 100 100 100
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US WECC	- A - A - A - A	AC 345 AC 230 AC 230 AC 230 AC 230 AC 230 AC 230	345 230 230 230 230 230 230	1200 MVA 0 1200 MVA 0 1200 MVA 0 1200 MVA 0 1200 MVA 0	06/01/10 06/01/10 06/01/10 06/01/10 06/01/10 06/01/10	Downey, ID West Phoenix AZ Peoria AZ West Phoenix AZ West Phoenix AZ Phoenix AZ	SLC UT West Phoenix AZ Pioneer AZ West Phoenix AZ West Phoenix AZ Phoenix AZ	15 9 15 15 4			PAC APS APS APS APS APS APS APS		100 100 100 100 100 100
US WECC US WECC US WECC US WECC US WECC US WECC	- A - A - A - A	AC 345 AC 230 AC 230 AC 230 AC 230	345 230 230 230 230 230	1200 MVA 0 1200 MVA 0 1200 MVA 0 1200 MVA 0 1200 MVA 0	06/01/10 06/01/10 06/01/10 06/01/10 06/01/10 06/01/10	Downey, ID West Phoenix AZ Peoria AZ West Phoenix AZ West Phoenix AZ Phoenix AZ	SLC UT West Phoenix AZ Pioneer AZ West Phoenix AZ West Phoenix AZ Phoenix AZ	15 9 15			PAC APS APS APS APS		100 100 100 100 100 100
US WECC	- A - A - A - A - A	AC 345 AC 230 AC 230 AC 230 AC 230 AC 230 AC 230 AC 230	345 230 230 230 230 230 230 230	1200 MVA 0 1200 MVA 0 1200 MVA 0 1200 MVA 0 1200 MVA 0 1200 MVA 0 1200 MVA 0	06/01/10 06/01/10 06/01/10 06/01/10 06/01/10 06/01/10 06/01/10	Downey, ID West Phoenix AZ Peoria AZ West Phoenix AZ West Phoenix AZ West Phoenix AZ Phoenix AZ Phoenix AZ	SLC UT West Phoenix AZ Pioneer AZ West Phoenix AZ West Phoenix AZ Phoenix AZ Phoenix AZ Phoenix AZ	15 9 15 15 4			PAC APS APS APS APS APS APS APS APS APS		100 100 100 100 100 100 100 100
US WECC	- A - A - A - A - A - A - A	AC 345 AC 230 AC 230 AC 230 AC 230 AC 230 AC 230 AC 230 AC 230	345 230 230 230 230 230 230 230 230	1200 MVA 0 1200 MVA 0 1200 MVA 0 1200 MVA 0 1200 MVA 0 1200 MVA 0 1200 MVA 0 810 MVA 0	06/01/10 06/01/10 06/01/10 06/01/10 06/01/10 06/01/10 06/01/10 06/01/10	Downey, ID West Phoenix AZ Peoria AZ West Phoenix AZ West Phoenix AZ West Phoenix AZ Phoenix AZ Phoenix AZ Las Vegas NV	SLC UT West Phoenix AZ Pioneer AZ West Phoenix AZ West Phoenix AZ West Phoenix AZ Phoenix AZ Phoenix AZ Las Vegas NV	15 9 15 15 4 4 12 18			PAC		100 100 100 100 100 100 100 100 100 100
US WECC	- A - A - A - A - A - A - A - A - A - A	AC 345 AC 230 AC 230 AC 230 AC 230 AC 230 AC 230 AC 230 AC 230 AC 230 AC 230	345 230 230 230 230 230 230 230 230 230 230	1200 MVA 0 1200 MVA 0 1200 MVA 0 1200 MVA 0 1200 MVA 0 1200 MVA 0 810 MVA 0	06/01/10 06/01/10 06/01/10 06/01/10 06/01/10 06/01/10 06/01/10 06/01/10 06/01/10	Downey, ID West Phoenix AZ Peoria AZ West Phoenix AZ West Phoenix AZ West Phoenix AZ Phoenix AZ Phoenix AZ Phoenix AZ Las Vegas NV Las Vegas NV	SLC UT West Phoenix AZ Pioneer AZ West Phoenix AZ West Phoenix AZ West Phoenix AZ Phoenix AZ Phoenix AZ Las Vegas NV Las Vegas NV	15 9 15 15 15 4 4 12			PAC APS APS APS APS AFS AFS AFS APS APS APS APS APS APS APS NEVP NEVP		100 100 100 100 100 100 100 100 100 100
US WECC	- A - A - A - A - A - A - A - A	AC 345 AC 230 AC 230	345 230 230 230 230 230 230 230 230 230 230	1200 MVA 0 1200 MVA 0 1200 MVA 0 1200 MVA 0 1200 MVA 0 1200 MVA 0 1200 MVA 0 810 MVA 0 810 MVA 0	06/01/10 06/01/10 06/01/10 06/01/10 06/01/10 06/01/10 06/01/10 06/01/10 06/01/10	Downey, ID West Phoenix AZ Peoria AZ West Phoenix AZ West Phoenix AZ West Phoenix AZ Phoenix AZ Phoenix AZ Las Vegas NV Las Vegas NV Las Vegas NV	SLC UT West Phoenix AZ Pioneer AZ West Phoenix AZ West Phoenix AZ West Phoenix AZ Phoenix AZ Phoenix AZ Phoenix AZ Las Vegas NV Las Vegas NV Las Vegas NV	15 9 15 15 15 4 12 18 18 18			PAC APS		100 1 100 1 100 1 100 1 100 1 100 1 100 1 100 1 100 1 100
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US WECC	- A - A - A - A - A - A - A - A - A - A	AC 345 AC 230 AC 500 AC 500 AC 500 AC 500	345 230 230 230 230 230 230 230 230 230 500 500 500	1200 MVA 0 1200 MVA 0 1200 MVA 0 1200 MVA 0 1200 MVA 0 1200 MVA 0 1200 MVA 0 810 MVA 0 810 MVA 0 600 MVA 0 2728 MVA 0 3000 MVA 0	06/01/10 06/01/10 06/01/10 06/01/10 06/01/10 06/01/10 06/01/10 06/01/10 06/01/10 06/01/10 06/01/10 06/01/10 06/01/10 06/01/10 06/01/10	Downey, ID West Phoenix AZ West Phoenix AZ West Phoenix AZ West Phoenix AZ Phoenix AZ Phoenix AZ Phoenix AZ Las Vegas NV Las Vegas NV Las Vegas NV Palo Verde AZ Table Mesa AZ Table Mesa AZ Las Vegas NV	SLC UT West Phoenix AZ Ploneer AZ West Phoenix AZ West Phoenix AZ West Phoenix AZ Phoenix AZ Phoenix AZ Phoenix AZ Las Vegas NV Las Vegas NV Las Vegas NV Phoenix AZ Phoenix AZ Table Mesa AZ Las Las Las Vegas NV Las Las Vegas NV	15 9 15 15 15 4 4 12 18 18 18 4 4 4 45 26 6 11 8 8			PAC		100 100 100 100 100 100 100 100 100 100
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US WECC US WEC	- A A - A A - A A - A A A - A A A - A A A - A A A - A A A A - A	AC 345 AC 230 AC 345 AC 346 AC 345 AC	345 230 230 230 230 230 230 230 230 230 500 500 500 500 230 230 230 230 330 343 345	1200 MVA 0 1200 MVA 0 1200 MVA 0 1200 MVA 0 1200 MVA 0 1200 MVA 0 810 MVA 0 810 MVA 0 600 MVA 0 3000 MVA 0 3000 MVA 0 1200 MVA 0	08/01/10 08/01/10 08/01/10 08/01/10 06/01/10	Downey, ID West Phoenix AZ West Phoenix AZ West Phoenix AZ West Phoenix AZ Phoenix AZ Phoenix AZ Phoenix AZ Las Vegas NV San Diego CA O'Banion CA Casper, WY Casper, WY O'Banion CA Midway CO Midway CO San Felipe CA Sin Felipe CA Vista NV Vista NV	SLC UT West Phoenix AZ Pioneer AZ West Phoenix AZ West Phoenix AZ West Phoenix AZ West Phoenix AZ Phoenix AZ Phoenix AZ Las Vegas NV Service AZ Phoenix AZ Phoenix AZ Phoenix AZ Phoenix AZ Dave Johnston Substation Dave Johnston CO Waterforn CO Bannister CA Bannister CA Bannister CA Bannister CA	15 9 15 15 15 15 4 4 12 18 18 4 4 4 4 4 4 4 4 5 26 1 1 8 8 8 8 8 15 26 0 0 0 0 0 0 0 0 0 0 0 0 0			PAC		100 100 100 100 100 100 100 100 100 100
US WECC US WEC	- A A - A A - A A - A A A - A A A - A A A - A A A - A A A - A A A - A A A A - A	AGC 345 AGC 230 AGC 23	345 230 230 230 230 230 230 230 230 500 500 500 500 230 230 230 30 230 30 30 30 30 30 30 30 30 30 30 30 30 3	1200 MVA 0 1200 MVA 0 1200 MVA 0 1200 MVA 0 1200 MVA 0 1200 MVA 0 810 MVA 0 810 MVA 0 600 MVA 0 3000 MVA 0 3000 MVA 0 1200 MVA 0	08/01/10 08/01/10 08/01/10 06/01/10	Downey, ID West Phoenix AZ Peoria AZ West Phoenix AZ West Phoenix AZ West Phoenix AZ Phoenix AZ Phoenix AZ Phoenix AZ Phoenix AZ Phoenix AZ Las Vegas NV Casper NV Casper NV Casper NV Casper WY Casper WY Casper WY Casper WY Midway CO Midway CO Midway CO Midway CO Midway CO Midway CO San Felipe CA	SLC UT West Phoenix AZ Pioneer AZ West Phoenix AZ West Phoenix AZ West Phoenix AZ Phoenix AZ Phoenix AZ Phoenix AZ Phoenix AZ Las Vegas NV Water CA Water CA Water CA Water CA Water CA Water CA Water CO Water CO Water CA Water CA Water CA Water CA Water CA	15 9 9 1 15 15 15 15 15 15 15 16 16 16 16 16 16 16 16 16 16 16 16 16			PAC		100 100 100 100 100 100 100 100 100 100
US WECC US WEC	- A A A - A A A - A A A MSNV A A MSNV A	AGC 345 AGC 230 AGC 23	345 230 230 230 230 230 230 230 230 500 500 500 500 230 230 230 230 230 230 230 230 230 2	1200 MVA 0 1200 MVA 0 1200 MVA 0 1200 MVA 0 1200 MVA 0 1200 MVA 0 810 MVA 0 810 MVA 0 810 MVA 0 1200 MVA 0	06/01/10 06/01/	Downey, ID West Phoenix AZ Peoria AZ West Phoenix AZ West Phoenix AZ West Phoenix AZ Phoenix AZ Phoenix AZ Phoenix AZ Phoenix AZ Las Vegas NV Casper, WY	SLC UT West Phoenix AZ Pioneer AZ West Phoenix AZ Pioneer AZ West Phoenix AZ Phoenix AZ Phoenix AZ Phoenix AZ Phoenix AZ Phoenix AZ Las Vegas NV Las	15 9 9 1 15 15 15 15 15 15 15 16 16 16 16 16 16 16 16 16 16 16 16 16			PAC		100 100 100 100 100 100 100 100 100 100
US	- A A - A A - A A - A A - A A - A A - A A - A A - A A - A A - A A - A A - A A - A A - A A - A A - A A - A A A - A A A - A A A A - A	AGC 345, AGC 230, AGC 250, AGC	345 230 230 230 230 230 230 230 230 230 500 500 500 230 230 230 230 230 230 230 230 230 2	1200 MVA 0 1200 MVA 0 1200 MVA 0 1200 MVA 0 1200 MVA 0 1200 MVA 0 810 MVA 0 810 MVA 0 810 MVA 0 810 MVA 0 900 MVA 0 2728 MVA 0 3000 MVA 0 3000 MVA 0 1200 MVA 1 1200 MVA 1 1200 MVA 1 1200 MVA 1 1300 MVA 1 1300 MVA 1 1300 MVA 1	08/01/10 09/01/10 09/01/10 11/01/10 12/01/10 12/01/10 12/01/10	Downey, ID West Phoenix AZ West Phoenix AZ West Phoenix AZ West Phoenix AZ Phoenix AZ Phoenix AZ Phoenix AZ Phoenix AZ Las Vegas NV San Diego CA Saper, WY Cas Vegas NV Cas Peigo CA Saper, WY Cas Peigo CA Gasper, WY Cas Peijo CA Midway CO Midway CO Midway CO Midway CO Midway CO Nor Midwa	SLC UT West Phoenix AZ Pioneer AZ West Phoenix AZ Pioneer AZ West Phoenix AZ Phoenix AZ Phoenix AZ Phoenix AZ Phoenix AZ Phoenix AZ Las Vegas NV Las	15			PAC		100 100 100 100 100 100 100 100 100 100
US WECC US WEC	- A A A - A A A - A A A - A - A A - A - A A - A - A A - A - A A - A - A A - A - A A - A - A A - A - A A - A - A A - A - A A - A - A A - A - A A - A - A A - A - A - A A -	AGC 3451 AGC 230 AGC 250 AGC 2	345 230 230 230 230 230 230 230 230 230 500 500 500 500 230 230 230 230 230 230 230 230 230 2	1200 MVA 0 1200 MVA 0 1200 MVA 0 1200 MVA 0 1200 MVA 0 1200 MVA 0 1200 MVA 0 810 MVA 0 1000 MVA 0 1200 MVA 0 1200 MVA 0 1200 MVA 0 1200 MVA 1 1200 MVA 1	06/01/10 06/01/10	Downey, ID West Phoenix AZ Peoria AZ West Phoenix AZ West Phoenix AZ West Phoenix AZ Phoenix AZ Phoenix AZ Phoenix AZ Phoenix AZ Las Vegas NV Casper, WY Ca	SLC UT West Phoenix AZ Pioneer AZ West Phoenix AZ Pioneer AZ West Phoenix AZ Phoenix AZ Phoenix AZ Phoenix AZ Phoenix AZ Las Vegas NV L	15 9 9 1 15 15 15 15 15 15 15 16 16 16 16 16 16 16 16 16 16 16 16 16			PAC		100 100 100 100 100 100 100 100 100 100
US WECC US WEC	- A A - A A - A A - A A A - A A A A - A	AGC 345,4 AGC 230,4 AGC 23	345 230 230 230 230 230 230 230 230 230 500 500 500 230 230 230 230 230 230 230 230 230 500 500 500 500 500 500 500 500 500 5	1200 MVA 0 810 MVA 0 810 MVA 0 810 MVA 0 810 MVA 0 1200 MVA 1 1300 MVA 1	18(01/10) 18(01/	Downey, ID West Phoenix AZ Peoria AZ West Phoenix AZ West Phoenix AZ Phoenix AZ Phoenix AZ Phoenix AZ Phoenix AZ Phoenix AZ Las Vegas NV Las Vegas NV Las Vegas NV Palo Verde AZ Table Mesa AZ Table Mesa AZ Table Mesa AZ Table Mesa AZ Casper, WY CoBanion CA O'Banion CA O'Banion CA O'Banion CA Midway CO Midway CO Midway CO San Felipe CA Vista NV Red Mesa AZ Imperial Valley CA San Felipe CA San Felipe CA Vista NV Red Mesa AZ Imperial Valley CA San Felipe CA	SLC UT West Phoenix AZ Pioneer AZ West Phoenix AZ Pioneer AZ West Phoenix AZ Phoenix AZ Phoenix AZ Phoenix AZ Phoenix AZ Phoenix AZ Las Vegas NV San Diego CA Elverta CA Dave Johnston Substatio Dave Johnston Substatio Elverta CA Dave Johnston Substatio CO Waterton C	15 9 9 1 15 15 15 15 15 15 15 15 15 16 16 16 16 16 16 16 16 16 16 16 16 16			PAC		100 100 100 100 100 100 100 100 100 100
US WECC US WEC	- A A - A A - A A - A A A - A A A A - A	AGC 345,4 AGC 230,4 AGC 23	345 230 230 230 230 230 230 230 230 230 500 500 500 230 230 230 230 230 230 230 230 230 500 500 500 500 500 500 500 500 500 5	1200 MVA 0 810 MVA 0 810 MVA 0 810 MVA 0 810 MVA 0 1200 MVA 1 1300 MVA 1	18(01/10) 18(01/	Downey, ID West Phoenix AZ Peoria AZ West Phoenix AZ West Phoenix AZ Phoenix AZ Phoenix AZ Phoenix AZ Phoenix AZ Phoenix AZ Las Vegas NV Las Vegas NV Las Vegas NV Palo Verde AZ Table Mesa AZ Table Mesa AZ Table Mesa AZ Table Mesa AZ Casper, WY CoBanion CA O'Banion CA O'Banion CA O'Banion CA Midway CO Midway CO Midway CO San Felipe CA Vista NV Red Mesa AZ Imperial Valley CA San Felipe CA San Felipe CA Vista NV Red Mesa AZ Imperial Valley CA San Felipe CA	SLC UT West Phoenix AZ Pioneer AZ West Phoenix AZ Pioneer AZ West Phoenix AZ Phoenix AZ Phoenix AZ Phoenix AZ Phoenix AZ Las Vegas NV L	15 9 9 1 15 15 15 15 15 15 15 16 16 16 16 16 16 16 16 16 16 16 16 16			PAC		100 100 100 100 100 100 100 100 100 100
US WECC AZ-NI	- A A - A A - A A - A A - A A - A A - A A - A A - A A - A A - A A A - A A A - A A A - A A A - A A A - A A A - A	AGC 3451 AGC	345 230 230 230 230 230 230 230 230 500 500 500 500 230 230 230 230 230 230 230 230 230 2	1200 MVA 0 1200 MVA 0 1200 MVA 0 1200 MVA 0 1200 MVA 0 1200 MVA 0 1200 MVA 0 810 MVA 0 1000 MVA 1 1000 MVA 1	18/01/10 18/	Downey, ID West Phoenix AZ Peoria AZ West Phoenix AZ West Phoenix AZ West Phoenix AZ Phoenix AZ Phoenix AZ Phoenix AZ Phoenix AZ Las Vegas NV Casper, WY Casp	SLC UT West Phoenix AZ Pioneer AZ West Phoenix AZ Pioneer AZ West Phoenix AZ West Phoenix AZ Phoenix AZ Phoenix AZ Phoenix AZ Phoenix AZ Las Vegas NV Las Vegas N	15 9 9 15 15 15 15 15 15			PAC		100 100 100 100 100 100 100 100 100 100
US WECC	- A A - A A - A A - A A - A A - A A - A A - A A - A A - A A - A A - A A - A A - A A - A A A - A A A - A A A - A A A - A A A - A A A - A A A A - A	AC 345 AC 230 AC	345 230 230 230 230 230 230 230 230 230 500 500 500 500 230 230 230 230 230 500 500 500 500 500 500 500 500 500 5	1200 MVA 0 810 MVA 0 810 MVA 0 810 MVA 0 810 MVA 0 1200 MVA 1 1300 MVA 1	16601/10 166	Downey, ID West Phoenix AZ Peoria AZ West Phoenix AZ West Phoenix AZ Las Vegas NV Cas Nan Diego CA O'Banion CA Casper, WY O'Banion CA Midway CO Midway CO San Felipe CA Vista NV Red Mesa AZ Imperial Valley CA San Felipe CA Vista NV	SLC UT West Phoenix AZ Pioneer AZ West Phoenix AZ Pioneer AZ West Phoenix AZ Phoenix AZ Phoenix AZ Phoenix AZ Phoenix AZ Phoenix AZ Las Vegas NV Las	15 9 9 9 1 15 15 15 15 15 15 15 15 15 16 16 16 16 16 16 16 16 16 16 16 16 16			PAC		100 100 100 100 100 100 100 100 100 100
US WECC	- A A A - A A M-SNV A M-SNV A M-SNV A M-SNV A M-SNV A M-SNV A A - A A - A A - A A - A A - A A - A A - A A - A - A A -	\(\(\) \) \(\)	345 230 230 230 230 230 230 230 230 500 500 500 500 500 500 500 500 500 5	1200 MVA 0 1200 MVA 0 1200 MVA 0 1200 MVA 0 1200 MVA 0 1200 MVA 0 1200 MVA 0 810 MVA 0 1000 MVA 0 1000 MVA 0 1000 MVA 0 1000 MVA 0 1200 MVA 1 1200 MVA 1 1300 MVA 1	0601/10 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Downey, ID West Phoenix AZ Peoria AZ West Phoenix AZ West Phoenix AZ West Phoenix AZ Phoenix AZ Phoenix AZ Phoenix AZ Phoenix AZ Phoenix AZ Las Vegas NV Casper, WY Red Mesa AZ Imperial Valley CA San Felipe CA Vista NV Red Mesa AZ Las Vegas NV Red Mesa AZ Right Vista NV Red Mesa AZ Right Right Vista NV Red Mesa AZ Right Right Vista NV Red Mesa AZ Red Mesa AZ	SLC UT West Phoenix AZ Pioneer AZ West Phoenix AZ Pioneer AZ West Phoenix AZ West Phoenix AZ Phoenix AZ Phoenix AZ Las Vegas NV San Diego CA Elverta CA Dave Johnston Substatio Dave Johnston Substatio Dave Johnston Substatio Dave Johnston CO Bannister CA Bannister CA Pahrump NV Moenkopi AZ San Felipe CA Narrows CA Narrows CA Pahrump NV Moenkopi AZ Bannister CA Pahrump NV Moenkopi AZ	15 9 9 15 15 15 15 15 15			PAC		100 100 100 100 100 100 100 100 100 100
US WECC	- A A A - A - A A - A - A A - A	AC 345 AC 230 AC 2525 AC 25	345 230 230 230 230 230 230 230 230 500 500 500 500 230 230 230 230 230 230 230 230 230 2	1200 MVA 0 810 MVA 0 810 MVA 0 810 MVA 0 810 MVA 0 1200 MVA 1 1300 MVA 1	58601/10 5601/	Downey, ID West Phoenix AZ Peoria AZ West Phoenix AZ West Phoenix AZ West Phoenix AZ Phoenix AZ Phoenix AZ Phoenix AZ Phoenix AZ Phoenix AZ Las Vegas NV Cas Vegas NV Las Vegas NV Las Vegas NV Cas NV Cas Vegas NV C	SLC UT West Phoenix AZ Pioneer AZ West Phoenix AZ Pioneer AZ West Phoenix AZ Phoenix AZ Phoenix AZ Phoenix AZ Phoenix AZ Phoenix AZ Las Vegas NV Las	15			PAC		100 100 100 100 100 100 100 100 100 100
US WECC	- A A A - A - A A - A - A A - A	\(\(\) \) \(\)	345 230 230 230 230 230 230 230 230 500 500 500 500 500 500 500 500 500 5	1200 MVA 0 1000 MVA 0 1000 MVA 0 1000 MVA 0 1000 MVA 0 1200 MVA 1 1200 MVA 1 1300 MVA 1 1300 MVA 1 1300 MVA 1 1200 MVA 1 1300 MVA 1 1300 MVA 1 1300 MVA 1 1200 MVA 1 1300 MVA 1	58601/10 5601/	Downey, ID West Phoenix AZ Peoria AZ West Phoenix AZ West Phoenix AZ West Phoenix AZ Phoenix AZ Phoenix AZ Phoenix AZ Phoenix AZ Phoenix AZ Las Vegas NV Casper, WY Red Mesa AZ Imperial Valley CA San Felipe CA Vista NV Red Mesa AZ Las Vegas NV Red Mesa AZ Right Vista NV Red Mesa AZ Right Right Vista NV Red Mesa AZ Right Right Vista NV Red Mesa AZ Red Mesa AZ	SLC UT West Phoenix AZ Pioneer AZ West Phoenix AZ Pioneer AZ West Phoenix AZ West Phoenix AZ Phoenix AZ Phoenix AZ Las Vegas NV San Diego CA Elverta CA Dave Johnston Substatio Dave Johnston Substatio Dave Johnston Substatio Dave Johnston CO Bannister CA Bannister CA Pahrump NV Moenkopi AZ San Felipe CA Narrows CA Narrows CA Pahrump NV Moenkopi AZ Bannister CA Pahrump NV Moenkopi AZ	15 9 9 15 15 15 15 15 15			PAC		100 100 100 100 100 100 100 100 100 100
US WECC	- A A - A A - A A - A A A A A A A A A A	\(\) \(\)	345 230 230 230 230 230 230 230 230 500 500 500 500 230 230 230 230 230 230 230 230 230 2	1200 MVA 0 1000 MVA 0 1000 MVA 0 1000 MVA 0 1000 MVA 0 1200 MVA 1	58601/10 586	Downey, ID West Phoenix AZ Peoria AZ West Phoenix AZ Peoria AZ West Phoenix AZ Phoenix AZ Phoenix AZ Phoenix AZ Phoenix AZ Las Vegas NV Casper, WY Casper,	SLC UT West Phoenix AZ Pioneer AZ West Phoenix AZ Pioneer AZ West Phoenix AZ Phoenix AZ Phoenix AZ Phoenix AZ Phoenix AZ Phoenix AZ Las Vegas NV Las	15 9 9 15 15 15 15 15 15			PAC		100 100 100 100 100 100 100 100 100 100
US WECC	- A A - A A - A A - A A - A A M-SNV A M-SNV A M-SNV A A - A A M-SNV A A - A A M-SNV A A - A A A A A A A A A A A A A A A A	AGC 345 AGC 230 AGC 23	345 230 230 230 230 230 230 230 230 500 500 500 500 500 500 500 500 500 5	1200 MVA 0 1200 MVA 1 1300 MVA 1	58601/10 5601/	Downey, ID West Phoenix AZ Peoria AZ West Phoenix AZ West Phoenix AZ West Phoenix AZ Phoenix AZ Phoenix AZ Phoenix AZ Phoenix AZ Phoenix AZ Las Vegas NV Casper, WY Ca	SLC UT West Phoenix AZ Pioneer AZ West Phoenix AZ Pioneer AZ West Phoenix AZ Las Vegas NV Las V	15 9 9 1 15 15 15 15 15 15 15 15 16 16 16 16 16 16 16 16 16 16 16 16 16			PAC		100 100 100 100 100 100 100 100 100 100
US WECC	- A A - A A - A A - A A A - A A A A A A	AGC 3451AGC 3230AGC 32	345 230 230 230 230 230 230 230 230 500 500 500 230 230 230 230 230 230 230 230 230 2	1200 MVA 0 1200 MVA 0 1000 MVA 0 1000 MVA 0 1000 MVA 0 1000 MVA 0 1000 MVA 0 1200 MVA 0 1200 MVA 0 1200 MVA 0 1200 MVA 0 1200 MVA 0 1200 MVA 1 1200 MVA 1 1200 MVA 1 1200 MVA 1 1200 MVA 1 1300 MVA 1 1200 MVA 1	58601/10 586	Downey, ID West Phoenix AZ Peoria AZ West Phoenix AZ West Phoenix AZ West Phoenix AZ Phoenix AZ Phoenix AZ Phoenix AZ Phoenix AZ Las Vegas NV San Diego CA OBanion CA Casper, WY Ca	SLC UT West Phoenix AZ Pioneer AZ West Phoenix AZ Pioneer AZ West Phoenix AZ West Phoenix AZ Phoenix AZ Phoenix AZ Phoenix AZ Las Vegas NV San Diego CA Eleverta CA Dave Johnston Substatio Eleverta CA San Pelipe CA Narrows CA Harry Allen 500 kV Bannister CA Pahrump NV Moenkopi AZ San Felipe CA Narrows CA Harry Allen 500 kV Harry Melen 500 kV	15 9 9 15 15 15 15 15 15			PAC		100 100 100 100 100 100 100 100 100 100
US WECC US WEC	- A A A - A A - A A A - A A A A A A A A	AGC 345 AGC 230 AGC 23	345 230 230 230 230 230 230 230 230 500 500 500 500 500 500 500 500 500 5	1200 MVA 0 1200 MVA 1 1300 MVA 1	58601170 58601710 586	Downey, ID West Phoenix AZ Peoria AZ West Phoenix AZ West Phoenix AZ West Phoenix AZ Phoenix AZ Phoenix AZ Phoenix AZ Phoenix AZ Phoenix AZ Las Vegas NV Casper, WY	SLC UT West Phoenix AZ Pioneer AZ West Phoenix AZ Pioneer AZ West Phoenix AZ Phoenix AZ Phoenix AZ Phoenix AZ Phoenix AZ Phoenix AZ Las Vegas NV Las	15 9 9 1 15 15 15 15 15 15 15 16 16 16 16 16 16 16 16 16 16 16 16 16			PAC		100 100 100 100 100 100 100 100 100 100
US WECC	- A A A - A A - A A A - A A A A A A A A	AGC 3451AGC 3230AGC 32	345 230 230 230 230 230 230 230 230 500 500 500 230 230 230 230 230 230 230 230 230 2	1200 MVA 0 1200 MVA 0 1000 MVA 0 1000 MVA 0 1000 MVA 0 1000 MVA 0 1000 MVA 0 1200 MVA 0 1200 MVA 0 1200 MVA 0 1200 MVA 0 1200 MVA 0 1200 MVA 1 1200 MVA 1 1200 MVA 1 1200 MVA 1 1200 MVA 1 1300 MVA 1 1200 MVA 1	58601170 58601710 586	Downey, ID West Phoenix AZ Peoria AZ West Phoenix AZ West Phoenix AZ West Phoenix AZ Phoenix AZ Phoenix AZ Phoenix AZ Phoenix AZ Las Vegas NV San Diego CA OBanion CA Casper, WY Ca	SLC UT West Phoenix AZ Pioneer AZ West Phoenix AZ Pioneer AZ West Phoenix AZ West Phoenix AZ Phoenix AZ Phoenix AZ Phoenix AZ Las Vegas NV San Diego CA Eleverta CA Dave Johnston Substatio Eleverta CA San Pelipe CA Narrows CA Harry Allen 500 kV Bannister CA Pahrump NV Moenkopi AZ San Felipe CA Narrows CA Harry Allen 500 kV Harry Melen 500 kV	15 9 9 15 15 15 15 15 15			PAC		100 100 100 100 100 100 100 100 100 100
US WECC US WEC	- A A - A A - A A - A A M-SNV A A M-SNV A A M-SNV A A A - A A A A A A A A A A A A A A A	AGC 345 AGC 230 AGC 23	345 230 230 230 230 230 230 230 230 500 500 500 500 500 500 500 500 500 5	1200 MVA 0 810 MVA 0 810 MVA 0 810 MVA 0 810 MVA 0 1200 MVA 1 1300 MVA 1 1200 MVA 1 1300 MVA 1 1300 MVA 1 1200 MVA 1 1300 MVA 1 1405 MVA 1 1405 MVA 1	58601/10 586	Downey, ID West Phoenix AZ Peoria AZ West Phoenix AZ West Phoenix AZ West Phoenix AZ Phoenix AZ Phoenix AZ Phoenix AZ Phoenix AZ Phoenix AZ Las Vegas NV Casper, WY	SLC UT West Phoenix AZ Pioneer AZ West Phoenix AZ Pioneer AZ West Phoenix AZ Phoenix AZ Phoenix AZ Phoenix AZ Phoenix AZ Phoenix AZ Las Vegas NV Las	15 9 9 1 15 15 15 15 15 15 15 16 16 16 16 16 16 16 16 16 16 16 16 16			PAC		100 100 100 100 100 100 100 100 100 100

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US	WECC	-	AC	230	230		05/01/11	Casaande AZ		21								SRP		100
US	WECC	-	AC	500	500	1405 MVA				87								SRP	I I	100
US		AZ-NM-SNV	AC	230	230	1200 MVA				15								APS	ı	100
US		AZ-NM-SNV	AC	230	230	1200 MVA				15								APS	1	100
US		AZ-NM-SNV	AC	230	230	810 MVA	06/01/11	Las Vegas NV	Las Vegas NV	16								NEVP	1	100
US		AZ-NM-SNV	AC	230	230	810 MVA	06/01/11	Las Vegas NV	Las Vegas NV	1							0	NEVP	1	100
US	WECC /	AZ-NM-SNV	AC	230	230	810 MVA	06/01/11	Las Vegas NV	Las Vegas NV	16							0	NEVP	1	100
US	WECC /	AZ-NM-SNV	AC	230	230	810 MVA	06/01/11	Las Vegas NV	Las Vegas NV	1							0	NEVP	1	100
US	WECC /	AZ-NM-SNV	AC	230	230	875 MVA			Florence AZ ?								0	SRP		100
US		AZ-NM-SNV	AC	500	500	1500 MVA				13								SRP	1	100
US	WECC A	AZ-NM-SNV	AC	500	500			Eleven Mile Corner, AZ		30								TEP	ì	100
US		AZ-NM-SNV	AC	525	500	3000 MVA				61								NEVP	i	100
US		CA-MX US	AC	230	230	1240 AMP				15								SCE	i	100
US		CA-MX US	AC	230	230	1000 MW	06/01/11	San Diego CA	San Diego CA	40	-							SDGE		100
US		CA-MX US	AC	230	230	1000 MW	06/01/11	San Diego CA		40	-	-						SDGE	1	100
US		CA-MX US	AC	500	500	2000 MW	06/01/11			00	-	-						SDGE	1	100
US	WECC	NWPP	AC AC	345 345	345 345	1396 MVA 1396 MVA	06/01/11			10	-							PAC PAC		100
		-																	!	
US	WECC	-	AC	230	230	1200 MVA				15								APS	l	100
US	WECC	-	AC	230	230	1200 MVA			THOOTIIX 7 LL	15								APS	I I	100
US	WECC	-	AC	230	230	810 MVA				16								NEVP	I I	100
US	WECC	-	AC	230	230	810 MVA			Las Vegas NV	1								NEVP	- 1	100
US	WECC	-	AC	230	230	810 MVA				16								NEVP	1	100
US	WECC	-	AC	230	230	810 MVA	06/01/11	Las Vegas NV	Las Vegas NV	1								NEVP	1	100
US	WECC	-	AC	230	230	875 MVA			Florence AZ ?		ιТ	T	T	T				SRP	T	100
US	WECC	-	AC	500	500	1500 MVA				13	\Box							SRP	- 1	100
US	WECC	-	AC	500	500	1100 MVA	06/01/11	Eleven Mile Corner, AZ	Red Rock, AZ	30								TEP	1	100
US	WECC	-	AC	525	500	3000 MVA			Las Vegas NV	61								NEVP	I I	100
US	WECC	-	AC	230	230	1240 AMP				15								SCE	1	100
US	WECC	-	AC	230	230	1000 MW	06/01/11	San Diego CA	San Diego CA	40								SDGE	ì	100
US	WECC	-	AC	230	230	1000 MW				40	1							SDGE	i	100
US	WECC	-	AC	500	500	2000 MW	06/01/11		San Diego CA 10	00								SDGE	il	100
US		AZ-NM-SNV	AC	138	138	192 MVA	12/01/11			12								VEA	i	100
US		AZ-NM-SNV	AC	500	500	1300 MVA				18	1				-	-		DPA		100
US	WECC	RMPA	AC	230	230	613 MVA				80	\vdash					-		TSGT	- 1	100
		KIVIPA			230					80		+							- !	
US	WECC	-	AC AC	230 138	138	613 MVA 192 MVA	12/01/11			12								TSGT VFA		100
		-								18									!	
US	WECC	-	AC	500	500	1300 MVA	12/01/11											DPA		100
US		AZ-NM-SNV	AC	230	230	810 MVA	06/01/12			5								NEVP	l	100
US		AZ-NM-SNV	AC	230	230	875 MVA			Queen Creek AZ ?								0	SRP	l	100
US		AZ-NM-SNV	AC	230	230	875 MVA			Florence AZ ?									SRP	I I	100
US		AZ-NM-SNV	AC	500	500	1200 MVA				15								APS	ı	100
US		AZ-NM-SNV	AC	500	500	1200 MVA		Northwest of Phoenix A2		40								APS	I	100
US	WECC	NWPP	AC	525	500	3000 MVA				50								SPR	1	100
US	WECC	NWPP	AC	230	230	550 MVA	06/01/12	Walters Ferry, ID		30								IPC	1	100
US	WECC	NWPP	AC	230	230	550 MVA	06/01/12			22								IPC	1	100
US	WECC	NWPP	AC	345	345	1386 MVA		American Falls, ID		32							0		1	100
US	WECC	NWPP	AC	345	500	2079 MVA	06/01/12	Shoshone, ID	Pocatello, ID -8	84							0	PC	1	100
US	WECC	NWPP	AC	345	345	1386 MVA			Pocatello, ID -:	32							0	PC	1	100
US	WECC	NWPP	AC	500	500	3000 MVA				89								IPC	1	100
US	WECC	NWPP	AC	500	500	3000 MVA				89							0	IPC		100
US	WECC	NWPP	AC	500	500	3000 MVA			Hollister, ID 1									PC	1	100
US	WECC	NWPP	AC	500	500	3000 MVA	06/01/12	Hollister, ID		53							0	IPC	1	100
US	WECC	NWPP	AC	500	500	3000 MVA				26						- +		PC	il	100
US	WECC	NWPP	AC	500	500	3000 MVA				34								PC	i	100
US	WECC	NWPP	AC	500	500	3000 MVA	06/01/12		Burns, OR -20		1				-	-		PC		100
US	WECC	NWPP	AC	500	500	3000 MVA				51							0	IPC		100
US	WECC	NWPP	AC	500	500	3000 MVA		Shoshone, ID		84								PC		100
US	WECC	NWPP	AC	500	500	3000 MVA				29	\vdash					-		PC	- 1	100
US	WECC	NWPP	AC	500	500	3000 MVA				02	\vdash					-		IPC		100
US	WECC	HANEL	AC	525	500	3000 MVA	06/01/12			50	\vdash					-		SPR	- 1	100
US	WECC	-	AC	230	230	550 MVA	06/01/12			30		-				-		IPC		100
US	WECC	-	AC AC	230	230	550 MVA				22		-				-		PC		100
	WECC	-	AC AC		230 345	1386 MVA												IPC		
US		-		345						32										100
US	WECC	-	AC	345	500	2079 MVA				84								PC		100
US	WECC	-	AC	345	345	1386 MVA	06/01/12	Shoshone, ID		32								PC	I I	100
US	WECC	-	AC	500	500	3000 MVA	06/01/12	Rock Springs, WY		89								PC	I I	100
US	WECC	-	AC	500	500	3000 MVA		Rock Springs, WY		89								PC	I I	100
US	WECC	-	AC	500	500	3000 MVA	06/01/12			15								PC	1	100
US	WECC	-	AC	500	500	3000 MVA	06/01/12			53								IPC	1	100
US	WECC	-	AC	500	500	3000 MVA				26								IPC		100
US	WECC		AC	500	500	3000 MVA				34						T		PC		100
US	WECC	-	AC	500	500	3000 MVA			Burns, OR -26	60								IPC		100
US	WECC	-	AC	500	500	3000 MVA	06/01/12	Downey, ID	American Falls, ID	51								PC	I	100
US	WECC	-	AC	500	500	3000 MVA			American Falls, ID	84					j			IPC	ı	100
US	WECC	-	AC	500	500	3000 MVA	06/01/12	Walters Ferry, ID	Parma, ID	29					j			IPC	ı	100
US	WECC	-	AC	500	500	3000 MVA			Boardman, OR 20	02								IPC	1	100
US	WECC	-	AC	230	230	810 MVA				5								NEVP	1	100
	WECC	-	AC	230	230	875 MVA			Queen Creek AZ ?									SRP	ì	100
US		-	AC	230	230	875 MVA			Florence AZ ?		1							SRP	i	100
US	WECC							L												
US	WECC	-	AC	500	500	1200 MVA	06/01/12	Wintersburg AZ	Yuma AZ 1 1	151		- 1	- 1	- 1	l l			APS	ll l	100
US US	WECC WECC	-	AC AC	500 500	500 500			Wintersburg AZ Northwest of Phoenix AZ		15 40								APS APS	- !	100

16	US	WECC NWPP	100	500	500	4500 M/A	04/04/42	Townsond MT	Midnaint ID	400				OINWMT		100
18			AC		500				Midpoint, ID	460					-	100
Col.															1	100
10.5 10.00															i	
10															i	
100 100						1076 MW				15					1	
10.5 MCCC CALAL (S. B. C. 500) 500 720 MeV 100 MeV	US	WECC CA-MX US	S AC	500	500	1200 MW	11/01/13	Devers II CA	Hesperia CA	85				0 LDWP	- 1	100
Mathematics	US			500	500	1200 MW	11/01/13	Hesperia CA	Lugo CA	2					I	100
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US WECC A-KNAS SW AC 200 200 100 MAY 000 VIA 14 Vegas NV 1															Ī	
US WCCC A-MA-SWY AC 20 220 160 MAX 000114 Lat Vegas W Lat Vegas W 1										22					I	
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US WECC A-M-SeV AC 346 346 395 397 3										1			 			
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US WECC AC AC 230 230 810 M/A 06001/14 Isa Vegas NV Las Vegas NV 8										1						
US WECC AC AC S45 S00 S000 M/N 60011/14 Red Rock AZ Vall AZ 60 NEVP 1 100										1			 			
US WECC - AC 525 500 3000 M/A 6001/14 Las Vegas NV Las Vegas W 1										8						
US WECC AZ-MAS-NY AC 345 345 325 M/A 12011/4 Shamina AZ Nogales AZ 60 0 0 TEP 1 100										1						
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US WECC AZ-Min-SNV AC 230 230 810 M/M 60011/5 Las Vegas NV 16	US			345	345	925 MVA	12/01/14	Sahuarita AZ		60				TEP	- 1	
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Notes: • Data are received as final. • Projected data are updated annually. • NERC Regional Council names may be found in the reference document. • Information identified for reliability purposes by NERC.

Line Type: OH=Overhead; UG+Underground; SM=Submarine.

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 Voltage Type: AC=Alternatic Qurrent; De-Direct Current
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 Conductor Material Type: AL=Aluminum; ACCR=Aluminum Composite Conductor Reinforced; ACSR=Aluminum Core Stee Reinforced; CU=Copper; OT=Other.
 Bundling Arrangement: 1=Single; 2=Double; 3=Triple;4=Quadruple; OT=Other.
 Pole Material: W=Wood; C=Concrete; S=Steet; B=Combination: P=Composite:O=Other.
- Pole Type: P=Single pole; H=H-frame; T=tower; U=Underground; O=Other.
- MVa: A unit of measure that is defined as "millions of volt-amperes".
 MCM: A unit of measure that is defined as "thousands of circular mils".
- Has Not Been Determined: Non-stardard reporting by a company where this company does not know all the details and they report only what is known.

 Negative Transmission Line Length: Usage of a negative value equates to transmission line mileage taken out of service and representes alterations where part of the power system was shortened.

 Zero Transmission Milage: Information reported covers planned and conceptual projects. Where the company does not know all the details, they report only what is known.

- Regional name and function has changed from Electric Reliability Council of Texas (ERCOT) to Texas Reliability Entity (TRE).
 The name ERCOT is now associated with regional transmission organization.
 Regional name has changed from Mid-Continent Area Power Pool (MAPP) to Midwest Reliability Organization (MRO).

- The MRO, SERC, and SPP regional boundaries were altered as utilities changed reliability organizations. The historical data series
- have not been adjusted.

 LeCAR, MAAC, and MAIN dissolved at the end-of-2005. Utility membership joined other reliability regional councils.

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 Reliability First Corporation (RFC) came into existence on January 1, 2006, and submitted a consolidated filing covering the historical NERC regions of
- ECAR, MAAC, and MAIN. Many of the former utility members joined RFC.
- Company names and reference abbreviations are from the NERC usage. Source reference for codes is found at: http://www.nerc.com/page.php?cid=3|25 . This also holds for the ownership codes and linkage to EIA company codes.

 Data are received as final from the NERC on this voluntary form. Canadian and Mexican data are supplied by the NERC.

 Totals may not equal sum of components because of independent rounding.

 Sources: Energy Information Administration, Form EIA-411, "Coordinated Bulk Power Supply Program Report."

Notes: • Data are received as final. • Projected data are updated annually. • NERC

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