

Table 6. Proposed high-voltage transmission line additions filed covering calendar Year 2011, by North American Electric Reliability Corporation, 2012 through 2021

Geographic Area				Voltage		Capacity		In-Service		Electrical Connection		Locations		Line Information		Conductor Characteristics		Circuits		Company Information				Project Information				
Data Year	Country	NERC Region	NERC Sub-region	Type	Operating (kV)	Design (kV)	Rating (MVA)	Month	Year	From Terminal	To Terminal	Length (Miles)	Type	Pole Type	Pole Material	Size (MCM)	Material	Bundling Arrangement	Present	Ultimate	Company Code	Company Name	Organizational Type	Ownership (Percent)	Project Name	Level of Certainty	Primary Driver 1	Primary Driver 2
2011	US	TRE	ERCOT	AC	300-399			5	2018	DeCordova	Benbrook	27	OH								44372	Delivery		100	00TPIT0004	Conceptual	Reliability	
2011	US	TRE	ERCOT	AC	300-399			5	2018	Loma Alta Substation	Rio Hondo Substation	35	OH								2409	BPUB		100	00TPITno07	Conceptual	Reliability	
2011	US	TRE	ERCOT	AC	121-150			6	2014	Highway 32	Wimberley	4	OH								14626	PEC		100	05TPIT0065	Planned	Reliability	
2011	US	TRE	ERCOT	AC	121-150			5	2018	Ennis Switch	Ennis	6.32	OH								44372	Oncor Electric Delivery		100	06TPIT0036	Conceptual	Reliability	
2011	US	TRE	ERCOT	AC	121-150			5	2018	Lake Wichita Switch	Wichitita Falls Switch	6.3	OH								44372	Oncor Electric Delivery		100	06TPIT0042	Conceptual	Reliability	
2011	US	TRE	ERCOT	AC	121-150			5	2014	Sherry	Liggett	13	OH								44372	Delivery		100	06TPIT0043	Conceptual	Reliability	
2011	US	TRE	ERCOT	AC	121-150			5	2018	Elkton	Tyler	4.98	OH								44372	Oncor Electric Delivery		100	06TPIT0047	Conceptual	Reliability	
2011	US	TRE	ERCOT	AC	121-150			3	2018	Hamilton Road	Picacho	8.67	OH								3278	AEP/TCC		100	06TPIT0068	Conceptual	Reliability	
2011	US	TRE	ERCOT	AC	121-150			6	2018	Buena Vista	Picacho	3	OH								3278	AEP/TCC		100	06TPIT0082	Conceptual	Reliability	
2011	US	TRE	ERCOT	AC	121-150			5	2018	Del Rio	Buena Vista	3	OH								3278	AEP/TCC		100	06TPIT0083	Conceptual	Reliability	
2011	US	TRE	ERCOT	AC	121-150			4	2018	Hamilton Road	Del Rio	3	OH								3278	AEP/TCC		100	06TPIT0084	Conceptual	Reliability	
2011	US	TRE	ERCOT	AC	121-150			5	2012	Lakeway Substation	Lakeway Substation	0.88	OH								1015	AUSTIN ENERGY		100	06TPIT0112	Planned	Reliability	
2011	US	TRE	ERCOT	AC	121-150			5	2014	Temple Switch	Temple SE	4.4	OH								44372	Oncor Electric Delivery		100	06TPIT0143	Conceptual	Reliability	
2011	US	TRE	ERCOT	AC	300-399			5	2018	Liggett	Trinity Switch	12.8	OH								44372	Oncor Electric Delivery		100	07TPIT0001	Conceptual	Reliability	
2011	US	TRE	ERCOT	AC	121-150			5	2018	Trinity Switch	Richland	0.5	OH								44372	Oncor Electric Delivery		100	07TPIT0012	Conceptual	Reliability	
2011	US	TRE	ERCOT	AC	121-150			5	2020	Plano West	Richardson Tap	1.9	OH								44372	Oncor Electric Delivery		100	07TPIT0014	Conceptual	Reliability	
2011	US	TRE	ERCOT	AC	121-150			12	2012	Handley	Hurst	18.7	OH								44372	Delivery		100	07TPIT0017	Conceptual	Reliability	
2011	US	TRE	ERCOT	AC	121-150			12	2012	CPS Lytle	ETT Lytle	4	OH								3278	AEP/ETT/CPS		100	07TPIT0027	Under Construction	Reliability	
2011	US	TRE	ERCOT	AC	121-150			11	2013	Decker Switchyard	Techridge Substation	4.5	OH								1015	AUSTIN ENERGY		100	07TPIT0050	Planned	Reliability	
2011	US	TRE	ERCOT	AC	121-150			6	2015	Howard Lane Substation	Techridge Substation	1.72	OH								1015	AUSTIN ENERGY		100	07TPIT0060	Planned	Reliability	
2011	US	TRE	ERCOT	AC	121-150			5	2022	Sterrett	Sardis	1.95	OH								44372	Oncor Electric Delivery		100	07TPIT0069	Conceptual	Reliability	
2011	US	TRE	ERCOT	AC	300-399			5	2020	Venus	Webb	11.3	OH								44372	Oncor Electric Delivery		100	07TPIT0073	Conceptual	Reliability	
2011	US	TRE	ERCOT	AC	121-150			6	2018	Picacho	CFE	8.8	OH								3278	AEP/ETT		100	07TPIT0083	Conceptual	Reliability	
2011	US	TRE	ERCOT	AC	121-150			5	2018	Elgin Switch	Taylor	11.4	OH								44372	Oncor Electric Delivery		100	07TPIT0115	Conceptual	Reliability	
2011	US	TRE	ERCOT	AC	121-150			5	2018	Lavon Switch	Allen Switch	8.9	OH								44372	Oncor Electric Delivery		100	07TPIT0119	Conceptual	Reliability	
2011	US	TRE	ERCOT	AC	121-150			5	2018	Royse	Dalrock	6.8	OH								44372	Oncor Electric Delivery		100	07TPIT0122	Conceptual	Reliability	
2011	US	TRE	ERCOT	AC	300-399			5	2014	Tricorner	Seagoville	9.4	OH								44372	Oncor Electric Delivery		100	07TPIT0126	Planned	Reliability	
2011	US	TRE	ERCOT	AC	121-150			5	2018	Oats (GPL)	Garland Bobtown Tap	1.5	OH								44372	Oncor Electric Delivery		100	07TPIT0138	Conceptual	Reliability	
2011	US	TRE	ERCOT	AC	300-399			12	2014	Trinidad	Watermill	52	OH								44372	Oncor Electric Delivery		100	07TPIT0140	Conceptual	Reliability	
2011	US	TRE	ERCOT	AC	300-399			5	2022	Collin Switch	NW. Carrollton	19.3	OH								44372	Oncor Electric Delivery		100	07TPIT0234	Conceptual	Reliability	
2011	US	TRE	ERCOT	AC	121-150			5	2014	N. Terrell Tap	Rose Hill	8.68	OH								44372	Oncor Electric Delivery		100	07TPIT0236	Conceptual	Reliability	
2011	US	TRE	ERCOT	AC	121-150			5	2018	Austin Ranch	Hebron	0.7	OH								44372	Oncor Electric Delivery		100	08TPIT0007	Conceptual	Reliability	
2011	US	TRE	ERCOT	AC	121-150			12	2012	Uvalde	Castroville	77.5	OH								3278	AEP/ETT		100	08TPIT0018	Under Construction	Reliability	
2011	US	TRE	ERCOT	AC	300-399			6	2015	Gilleland Substation	Techridge Substation	8	OH								1015	AUSTIN ENERGY		100	08TPIT0033	Planned	Reliability	
2011	US	TRE	ERCOT	AC	121-150			5	2012	McNeil Substation	Summit Substation	2	OH								1015	AUSTIN ENERGY		100	08TPIT0034	Planned	Reliability	
2011	US	TRE	ERCOT	AC	121-150			5	2018	Lake Creek	East Waco	10.5	OH								44372	Oncor Electric Delivery		100	08TPIT0069	Conceptual	Reliability	
2011	US	TRE	ERCOT	AC	121-150			10	2013	Rhome	Roanoke	16.6	OH								2172	BRAZOS		100	08TPIT0097	under construction	Reliability	
2011	US	TRE	ERCOT	AC	121-150			12	2014	Elgin Switching Station	Elgin	5.9	OH								44372	Oncor Electric Delivery		100	08TPIT0104	Conceptual	Reliability	
2011	US	TRE	ERCOT	AC	121-150			5	2012	Leon	Flat Creek	19.5	OH								44372	Oncor Electric Delivery		100	08TPIT0107	Conceptual	Reliability	
2011	US	TRE	ERCOT	AC	121-150			5	2020	Payne	Collin Switching Station	31.75	OH								44372	Oncor Electric Delivery		100	08TPIT0109	Conceptual	Reliability	

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Geographic Area						Voltage		Capacity		In-Service		Electrical Connection		Locations		Line Information		Conductor Characteristics				Circuits		Company Information				Project Information			
Data Year	Country	NERC Region	NERC Sub-region	Type	Operating (kV)	Design (kV)	Rating (MVA)	Month	Year	From Terminal	To Terminal	Length (Miles)	Type	Pole Type	Pole Material	Size (MCM)	Material	Bundling Arrange-ment	Present	Ultimate	Company Code	Company Name	Organizational Type	Ownership (Percent)	Project Name	Level of Certainty	Primary Driver 1	Primary Driver 2			
2011	US	TRE	ERCOT	AC	121-150			5	2018	Lufkin Switching Station	Texas Foundries Tap	0.73	OH								44372	Oncor Electric Delivery		100	08TPIT0111	Conceptual	Reliability				
2011	US	TRE	ERCOT	AC	121-150			5	2014	Elkton	Athens North Tap	29.1	OH								44372	Oncor Electric Delivery		100	08TPIT0153	Conceptual	Reliability				
2011	US	TRE	ERCOT	AC	300-399			6	2020	Cagnon	Hill Country	19.5	OH								16604	CPS		100	09TPIT0011	Conceptual	Reliability				
2011	US	TRE	ERCOT	AC	300-399			6	2016	Hill Country	Skyline	11	OH								16604	CPS		100	09TPIT0012	Conceptual	Reliability				
2011	US	TRE	ERCOT	AC	121-150			6	2014	Blossom	Harmony Hills/Skyline	0.1	OH								16604	CPS		100	09TPIT0037	Planned	Reliability				
2011	US	TRE	ERCOT	AC	121-150			5	2018	Coppell	North Lake	4.8	OH								44372	Oncor Electric Delivery		100	09TPIT0043	Conceptual	Reliability				
2011	US	TRE	ERCOT	AC	121-150			5	2013	E. Richardson	Apollo	2.32	OH								44372	Oncor Electric Delivery		100	09TPIT0044	Conceptual	Reliability				
2011	US	TRE	ERCOT	AC	121-150			5	2018	N. Midlothian	Midlothian TXI Tap	6.2	OH								44372	Oncor Electric Delivery		100	09TPIT0046	Conceptual	Reliability				
2011	US	TRE	ERCOT	AC	121-150			5	2020	N. Waco	NE. Waco	1.9	OH								44372	Oncor Electric Delivery		100	09TPIT0047	Conceptual	Reliability				
2011	US	TRE	ERCOT	AC	121-150			5	2018	Rowlett	Garland Bobtown Tap	4.1	OH								44372	Oncor Electric Delivery		100	09TPIT0050	Conceptual	Reliability				
2011	US	TRE	ERCOT	AC	121-150			5	2018	Saldo Switch	Cedar Valley Switch	7	OH								44372	Oncor Electric Delivery		100	09TPIT0051	Conceptual	Reliability				
2011	US	TRE	ERCOT	AC	121-150			5	2018	Boggy Creek	Boggy Creek	3.5	OH								44372	Oncor Electric Delivery		100	09TPIT0066	Conceptual	Reliability				
2011	US	TRE	ERCOT	AC	121-150			12	2012	Switch 1377 at Jupiter	Switch 6612 at Apollo	2	OH								5078	GARLAND		100	09TPIT0073	Planned	Reliability				
2011	US	TRE	ERCOT	AC	121-150			12	2012	Switch 1378 at Jupiter	Switch 931 at Lawler Tap	1.5	OH								5078	GARLAND		100	09TPIT0074	Planned	Reliability				
2011	US	TRE	ERCOT	AC	121-150			12	2012	Switch 932 at Lawler Tap	Switch 6832 at College	2	OH								5078	GARLAND		100	09TPIT0076	Planned	Reliability				
2011	US	TRE	ERCOT	AC	121-150			5	2014	Stryker Creek	Dialville	15.2	OH								44372	Oncor Electric Delivery		100	09TPIT0117	Conceptual	Reliability				
2011	US	TRE	ERCOT	AC	121-150			5	2020	Fisher Road	Wichita Falls	1.45	OH								44372	Oncor Electric Delivery		100	09TPIT0118	Conceptual	Reliability				
2011	US	TRE	ERCOT	AC	121-150			5	2012	Sun Switch	Sacroc	12.8	OH								44372	Oncor Electric Delivery		100	09TPIT0120	Conceptual	Reliability				
2011	US	TRE	ERCOT	AC	121-150			12	2012	Sun Switch	Sacroc	1.8	OH								44372	Oncor Electric Delivery		100	09TPIT0121	Conceptual	Reliability				
2011	US	TRE	ERCOT	AC	121-150			5	2020	Shamburger	Tyler NW	6.3	OH								44372	Oncor Electric Delivery		100	09TPIT0122	Conceptual	Reliability				
2011	US	TRE	ERCOT	AC	121-150			6	2016	Trumbo	Leon Creek/Pleasanton Rd	0.1	OH								16604	CPS		100	10TPIT0001	Conceptual	Reliability				
2011	US	TRE	ERCOT	AC	121-150			5	2018	Trinity Switch	Hurst	4	OH								44372	Oncor Electric Delivery		100	10TPIT0009	Conceptual	Reliability				
2011	US	TRE	ERCOT	AC	121-150			12	2012	Coppell	Roanoke	17	OH								2172	BRAZOS		100	10TPIT0010	conceptual	Reliability				
2011	US	TRE	ERCOT	AC	121-150			5	2013	Apollo	East Richardson	1.4	OH								2172	BRAZOS		100	10TPIT0013	conceptual	Reliability				
2011	US	TRE	ERCOT	AC	121-150			5	2014	Allen Switch	Collin Junction	9	OH								44372	Oncor Electric Delivery		100	10TPIT0017	Conceptual	Reliability				
2011	US	TRE	ERCOT	AC	121-150			5	2012	Austin Ranch	Colony	4.6	OH								44372	Oncor Electric Delivery		100	10TPIT0018	Conceptual	Reliability				
2011	US	TRE	ERCOT	AC	121-150			5	2020	Everman	Cleburne Switch	8.5	OH								44372	Oncor Electric Delivery		100	10TPIT0019	Conceptual	Reliability				
2011	US	TRE	ERCOT	AC	300-399			12	2013	Anna Switch	Krum W. Switch	140	OH								44372	Oncor Electric Delivery		100	10TPIT0020	Planned	Reliability				
2011	US	TRE	ERCOT	AC	121-150			4	2012	Stoney Ridge Substation	Stoney Ridge Substation	0.1	OH								1015	AUSTIN ENERGY		100	10TPIT0024	Planned	Reliability				
2011	US	TRE	ERCOT	AC	121-150			6	2015	Rinard Creek substation	Rinard Creek Substation	0.1	OH								1015	AUSTIN ENERGY		100	10TPIT0025	Planned	Reliability				
2011	US	TRE	ERCOT	AC	121-150			5	2018	Escondido	West Batesville	46.2	OH								3278	AEP/ETT		100	10TPIT0028	Conceptual	Reliability				
2011	US	TRE	ERCOT	AC	121-150			5	2012	Arco (TMPA)	Krugerville	5.6	OH								44372	Oncor Electric Delivery		100	10TPIT0032	Conceptual	Reliability				
2011	US	TRE	ERCOT	AC	121-150			6	2013	Switch 8832 at College	Switch 1364 at Brand	4.2	OH								5078	GARLAND		100	10TPIT0038	Planned	Reliability				
2011	US	TRE	ERCOT	AC	300-399			5	2012	Temple Switch	Salado Switch	15.2	OH								44372	Oncor Electric Delivery		100	10TPIT0041	planned	Reliability				
2011	US	TRE	ERCOT	AC	121-150			12	2012	Koppe Bridge	Wellborn	5.8	OH								2442	BTU		100	10TPIT0049	planned	Reliability				
2011	US	TRE	ERCOT	AC	121-150			12	2014	Geronimo	CMC	5.5	OH								7752	GVEC		100	10TPIT0063	Planned	Reliability				
2011	US	TRE	ERCOT	AC	121-150			10	2012	East Abilene	Putnam	32	OH								3278	AEP/ETT		100	10TPIT0086	Planned	Reliability				
2011	US	TRE	ERCOT	AC	121-150			5	2020	Elm Mott	Waco Northcrest	3.6	OH								44372	Oncor Electric Delivery		100	10TPIT0091	Conceptual	Reliability				
2011	US	TRE	ERCOT	AC	121-150			12	2012	VH Braunig	Grandview	2.1	OH								16604	CPS		100	10TPIT0095	Planned	Reliability				
2011	US	TRE	ERCOT	AC	300-399			5	2016	Lobo	Rio Bravo	30	OH								3278	AEP/ETT		100	11TPIT0001	Planned	Reliability				
2011	US	TRE	ERCOT	AC	300-399			7	2016	Lobo	North Edinburg	163	OH								3278	AEP/ETT		100	11TPIT0002	Planned	Reliability				
2011	US	TRE	ERCOT	AC	121-150			6	2017	Rainey St Substation	Rainey St Substation	0.1	OH								1015	AUSTIN ENERGY		100	11TPIT0008	Planned	Reliability				
2011	US	TRE	ERCOT	AC	121-150			6	2014	Dunlap Substation	Dunlap Substation	0.1	OH								1015	AUSTIN ENERGY		100	11TPIT0009	Planned	Reliability				
2011	US	TRE	ERCOT	AC	121-150			6	2017	Northeast Substation	Northeast Substation	0.1	OH								1015	AUSTIN ENERGY		100	11TPIT0011	Planned	Reliability				

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Data Year	Country	NERC Region	NERC Sub-region	Type	Operating (kV)	Design (kV)	Rating (MVA)	Month	Year	From Terminal	To Terminal	Length (Miles)	Type	Pole Type	Pole Material	Size (MCM)	Material	Bundling Arrangement	Present	Ultimate	Company Code	Company Name	Organizational Type	Ownership (Percent)	Project Name	Level of Certainty	Primary Driver 1	Primary Driver 2	
2011	US	TRE	ERCOT	AC	121-150			5	2020	Euless	Grapevine Ball Street	5.9	OH								44372	Oncor Electric Delivery		100	11TPIT0012	Conceptual	Reliability		
2011	US	TRE	ERCOT	AC	121-150			5	2015	Sherry	Grand Prairie	11.4	OH								44372	Oncor Electric Delivery		100	11TPIT0015	Conceptual	Reliability		
2011	US	TRE	ERCOT	AC	121-150			6	2012	various	various	5.8	OH								16604	CPS		100	11TPIT0024	Conceptual	Reliability		
2011	US	TRE	ERCOT	AC	121-150			5	2018	Allen Switch	West Plano Switch	3.5	OH								44372	Oncor Electric Delivery		100	11TPIT0028	Conceptual	Reliability		
2011	US	TRE	ERCOT	AC	121-150			5	2014	NW Carrollton	Collin	16.93	OH								44372	Oncor Electric Delivery		100	11TPIT0032	Conceptual	Reliability		
2011	US	TRE	ERCOT	AC	121-150			5	2020	Saginaw	American MFG Tap	1.37	OH								44372	Oncor Electric Delivery		100	11TPIT0033	Conceptual	Reliability		
2011	US	TRE	ERCOT	AC	300-399			6	2012	Twin Buttes	Brown	0.2	OH								44372	Oncor Electric Delivery		100	11TPIT0047	planned	Reliability		
2011	US	TRE	ERCOT	AC	121-150			5	2015	Roanoke Switch	Elizabeth Creek	3.75	OH								44372	Oncor Electric Delivery		100	11TPIT0050	Conceptual	Reliability		
2011	US	TRE	ERCOT	AC	121-150			5	2015	Hicks Switch	Elizabeth Creek	10	OH								44372	Oncor Electric Delivery		100	11TPIT0050	Conceptual	Reliability		
2011	US	TRE	ERCOT	AC	121-150			6	2012	Ector County North Switch	Moss	20.5	OH								44372	Oncor Electric Delivery		100	11TPIT0065	Conceptual	Reliability		
2011	US	TRE	ERCOT	AC	121-150			4	2012	Garrott	Midtown	1.47	OH								8901	CNP		100	11TPIT0072a	Under Construction	Reliability		
2011	US	TRE	ERCOT	AC	121-150			4	2012	Midtown	Polk	1.04	OH								8901	CNP		100	11TPIT0072b	Under Construction	Reliability		
2011	US	TRE	ERCOT	AC	300-399			12	2012	Cottonwood	Dermott	74.2	OH								0	Wind Energy Transmission Texas (WETT)		100	11TPIT0076	Planned	Reliability		
2011	US	TRE	ERCOT	AC	121-150			7	2012	Switch 7512 at Plastipak	Switch 8702 at Shiloh	1.5	OH								5078	GARLAND		100	11TPIT0081	Under construction	Reliability		
2011	US	TRE	ERCOT	AC	121-150			2	2013	Doedyns	Sioux	5.5	OH								17583	STEC		100	11TPIT0085	Planned	Reliability		
2011	US	TRE	ERCOT	AC	121-150			5	2012	Reno	Rhome	13.85	OH								2172	BRAZOS		100	11TPIT0101	planned	Reliability		
2011	US	TRE	ERCOT	AC	121-150			6	2012	Weslaco Switch	Valverde	4.5	OH								17583	STEC		100	11TPIT0110b	Planned	Reliability		
2011	US	TRE	ERCOT	AC	121-150			9	2012	Thompson Creek	Koppe Bridge	17	OH								2442	BTU		100	11TPIT0111	planned	Reliability		
2011	US	TRE	ERCOT	AC	121-150			5	2013	Alberta Switch	Doedyns	3.1	OH								17583	STEC		100	11TPIT0114	Planned	Reliability		
2011	US	TRE	ERCOT	AC	121-150			5	2015	Hicks Switch	Elizabeth Creek	10	OH								44372	Oncor Electric Delivery		100	11TPIT0179	Conceptual	Reliability		
2011	US	TRE	ERCOT	AC	121-150			6	2018	Sulpher Springs	OW Sommers/Kirby	0.1	OH								16604	CPS		100	12TPIT0004	Conceptual	Reliability		
2011	US	TRE	ERCOT	AC	121-150			6	2018	Masterson Rd.	Cagnon/Valley/Howard	20	OH								16604	CPS		100	12TPIT0009	Planned	Reliability		
2011	US	TRE	ERCOT	AC	121-150			3	2014	Barney Davis	Laguna	4.2	OH								3278	AEP/ETT		100	12TPIT0015	Planned	Reliability		
2011	US	TRE	ERCOT	AC	300-399			12	2013	Odessa	North McCamey	59.6	OH								17583	STEC		100	12TPIT0026	Planned	Reliability		
2011	US	TRE	ERCOT	AC	300-399			12	2013	Bakersfield	North McCamey	15.9	OH								17583	STEC		100	12TPIT0027	Planned	Reliability		
2011	US	TRE	ERCOT	AC	300-399			5	2012	Twin Buttes	Big Hill	31	OH								11269	LCRA TSC		100	12TPIT0028	Planned	Reliability		
2011	US	TRE	ERCOT	AC	300-399			8	2013	Big Hill	Kendall	274	OH								11269	LCRA TSC		100	12TPIT0029	Planned	Reliability		
2011	US	TRE	ERCOT	AC	300-399			12	2012	Brown	Newton	98.6	OH								44372	Oncor Electric Delivery		100	12TPIT0036	planned	Reliability		
2011	US	TRE	ERCOT	AC	300-399			12	2012	Newton	Killeen Switch	27.9	OH								44372	Oncor Electric Delivery		100	12TPIT0037	planned	Reliability		
2011	US	TRE	ERCOT	AC	300-399			12	2012	Brown	Killeen Switch	126.5	OH								44372	Oncor Electric Delivery		100	12TPIT0038	planned	Reliability		
2011	US	TRE	ERCOT	AC	300-399			6	2012	Bluff Creek	Brown	86.6	OH								44372	Oncor Electric Delivery		100	12TPIT0043	Under Construction	Reliability		
2011	US	TRE	ERCOT	AC	300-399			6	2012	Central Bluff	Brown	96.1	OH								44372	Oncor Electric Delivery		100	12TPIT0044	Under Construction	Reliability		
2011	US	TRE	ERCOT	AC	300-399			5	2012	ZENITH	Gertie	10	OH								8901	CNP		100	12TPIT0046	Under Construction	Reliability		
2011	US	TRE	ERCOT	AC	121-150			5	2012	Kluge	Addicks	6.1	OH								8901	CNP		100	12TPIT0047	Under Construction	Reliability		
2011	US	TRE	ERCOT	AC	121-150			5	2012	ZENITH	ADDICKS	1.49	OH								8901	CNP		100	12TPIT0047b	Under Construction	Reliability		
2011	US	TRE	ERCOT	AC	121-150			5	2012	CAMRON	KLUGE	4.62	OH								8901	CNP		100	12TPIT0047c	Under Construction	Reliability		
2011	US	TRE	ERCOT	AC	300-399			3	2013	Cottonwood	Silverton	64.5	OH								17008	SU		100	12TPIT0049	Planned	Reliability		
2011	US	TRE	ERCOT	AC	300-399			5	2013	Silverton	Nazareth	46	OH								17008	SU		100	12TPIT0051	Planned	Reliability		
2011	US	TRE	ERCOT	AC	300-399			7	2013	Nazareth	Hereford	25.5	OH								17008	SU		100	12TPIT0052	Planned	Reliability		
2011	US	TRE	ERCOT	AC	300-399			2	2013	Grelton	Long Draw	55.4	OH								0	Wind Energy Transmission Texas (WETT)		100	12TPIT0056	Planned	Reliability		
2011	US	TRE	ERCOT	AC	300-399			2	2013	Grelton	Odessa	49.9	OH								0	Wind Energy Transmission Texas (WETT)		100	12TPIT0057	Planned	Reliability		
2011	US	TRE	ERCOT	AC	300-399			2	2013	Long Draw	Scurry	50.7	OH								0	Wind Energy Transmission Texas (WETT)		100	12TPIT0058	Planned	Reliability		

Table 6. Proposed high-voltage transmission line additions filed covering calendar Year 2011, by North American Electric Reliability Corporation, 2012 through 2021 (cont.)

Data Year	Geographic Area			Voltage		Capacity		In-Service		Electrical Connection		Locations		Line Information				Conductor Characteristics		Circuits		Company Information				Project Information			
	Country	NERC Region	NERC Sub-region	Type	Operating (kV)	Design (kV)	Rating (MVA)	Month	Year	From Terminal	To Terminal	Length (Miles)	Type	Pole Type	Pole Material	Size (MCM)	Material	Bundling Arrangement	Present	Ultimate	Company Code	Company Name	Organizational Type	Ownership (Percent)	Project Name	Level of Certainty	Primary Driver 1	Primary Driver 2	
2011	US	TRE	ERCOT	AC	300-399			5	2013	Sand Bluff	Divide	37	OH								0	Wind Energy Transmission Texas (WETT)		100	12TPIT0059	Planned	Reliability		
2011	US	TRE	ERCOT	AC	300-399			5	2013	Berkat	Sandbluff	28.9	OH								0	Wind Energy Transmission Texas (WETT)		100	12TPIT0060	Planned	Reliability		
2011	US	TRE	ERCOT	AC	300-399			5	2013	Sand Bluff	Long Draw	77.4	OH								0	Wind Energy Transmission Texas (WETT)		100	12TPIT0061	Planned	Reliability		
2011	US	TRE	ERCOT	AC	121-150			1	2013	South Bend Switch	Morris Sheppard	18.2	OH								2172	BRAZOS		100	12TPIT0068	conceptual	Reliability		
2011	US	TRE	ERCOT	AC	121-150			6	2012	Ferguson	Wirtz	4	OH								11269	LCRA TSC		100	12TPIT0072	Planned	Reliability		
2011	US	TRE	ERCOT	AC	300-399			12	2022	Southeast Nacogdoches	Lufkin Switch	13	OH								44372	Oncor Electric Delivery		100	12TPIT0078	Conceptual	Reliability		
2011	US	TRE	ERCOT	AC	121-150			5	2013	Roanoke Switch	Coppell	19.63	OH								44372	Oncor Electric Delivery		100	12TPIT0079	Conceptual	Reliability		
2011	US	TRE	ERCOT	AC	121-150			6	2013	Merida	Medina Base	0.1	OH								16604	CPS		100	12TPIT0081	Planned	Reliability		
2011	US	TRE	ERCOT	AC	121-150			6	2012	Hotwells	Ball Park/Deely	0.1	OH								16604	CPS		100	12TPIT0082	Planned	Reliability		
2011	US	TRE	ERCOT	AC	121-150			12	2012	Switch 8512 at Firewheel	Lookout	1.3	OH								5078	GARLAND		100	12TPIT0083	Planned	Reliability		
2011	US	TRE	ERCOT	AC	121-150			12	2012	Switch 8622 at Apollo	Lookout	2.8	OH								5078	GARLAND		100	12TPIT0085	Planned	Reliability		
2011	US	TRE	ERCOT	AC	121-150			7	2012	TXGULF	West Columbia	27.53	OH								8901	CNP		100	12TPIT0095b	Under Construction	Reliability		
2011	US	TRE	ERCOT	AC	121-150			10	2012	Bullick Hollow	Marshall Ford/Balcones	2.3	OH								14626	PEC		100	12TPIT0115	Planned	Reliability		
2011	US	TRE	ERCOT	AC	121-150			4	2012	Scarscale	South Houston	0.9	OH								8901	CNP		100	12TPIT0116	Planned	Reliability		
2011	US	TRE	ERCOT	AC	121-150			5	2012	Elkton	S Tyler	2.8	OH								44372	Oncor Electric Delivery		100	12TPIT0118	Conceptual	Reliability		
2011	US	TRE	ERCOT	AC	121-150			12	2012	WA Parish	Sienna	4.2	OH								8901	CNP		100	12TPIT0128	Planned	Reliability		
2011	US	TRE	ERCOT	AC	121-150			6	2012	St Jo	Capps Corner	8.6	OH								2172	BRAZOS		100	12TPIT0134	planned	Reliability		
2011	US	TRE	ERCOT	AC	121-150			5	2013	Spring	Bridgeport Switch	33.3	OH								2172	BRAZOS		100	12TPIT0135	planned	Reliability		
2011	US	TRE	ERCOT	AC	121-150			6	2012	El Gato	Sioux	5.43	OH								3278	AEP/TCC/STEC		100	12TPIT0136	Under Construction	Reliability		
2011	US	TRE	ERCOT	AC	121-150			9	2012	Dinero	Dinero	0.5	OH								17583	STEC		100	12TPIT0141	Conceptual	Reliability		
2011	US	TRE	ERCOT	AC	121-150			12	2012	Fairbanks	Deihl	3.59	OH								8901	CNP		100	12TPIT0165	Planned	Reliability		
2011	US	TRE	ERCOT	AC	121-150			12	2012	Deihl	White Oak	4.05	OH								8901	CNP		100	12TPIT0165a	Planned	Reliability		
2011	US	TRE	ERCOT	AC	121-150			12	2012	Crockett	Northside	2.53	OH								8901	CNP		100	12TPIT0167	Planned	Reliability		
2011	US	TRE	ERCOT	AC	121-150			12	2012	Bellaire	Ulrich	3.39	OH								8901	CNP		100	12TPIT0169	Planned	Reliability		
2011	US	TRE	ERCOT	AC	121-150			3	2012	Airline	White Oak	3.03	OH								8901	CNP		100	12TPIT0170	Planned	Reliability		
2011	US	TRE	ERCOT	AC	121-150			3	2012	HO Clarke	Knight	3.94	OH								8901	CNP		100	12TPIT0171	Planned	Reliability		
2011	US	TRE	ERCOT	AC	300-399			12	2012	Western Dawson	Patricia	7.5	OH								0	Golden Spread/Lyntega r EC		100	12TPIT0172	planned	Reliability		
2011	US	TRE	ERCOT	AC	121-150			4	2012	Austin	Kirby	2.75	OH								16604	CPS		100	12TPIT0173	Planned	Reliability		
2011	US	TRE	ERCOT	AC	121-150			12	2012	EXTER	HASTINGS	0.1	OH								8901	CNP		100	12TPIT0178	Planned	Reliability		
2011	US	TRE	ERCOT	AC	121-150			6	2014	Airline	Cabaniss	5.5	OH								3278	AEP/TCC		100	12TPIT0185	Conceptual	Reliability		
2011	US	TRE	ERCOT	AC	121-150			6	2013	Palo Alto	Leon Creek/Chavaneaus	0.1	OH								16604	CPS		100	13TPIT0011	Conceptual	Reliability		
2011	US	TRE	ERCOT	AC	121-150			9	2013	Greens Prairie	Wellborn	4	OH								2442	BTU		100	13TPIT0016	planned	Reliability		
2011	US	TRE	ERCOT	AC	300-399			8	2013	Bakersfield	Big Hill	112	OH								17583	STEC		100	13TPIT0018	Planned	Reliability		
2011	US	TRE	ERCOT	AC	300-399			3	2013	Riley	Edith Clarke	86.6	OH								3278	AEP/ETT		100	13TPIT0019	Planned	Reliability		
2011	US	TRE	ERCOT	AC	300-399			3	2013	Tesla	Edith Clarke	110.4	OH								3278	AEP/ETT		100	13TPIT0020	Planned	Reliability		
2011	US	TRE	ERCOT	AC	300-399			10	2013	Cottonwood	Edith Clarke	178	OH								3278	AEP/ETT		100	13TPIT0021	Planned	Reliability		
2011	US	TRE	ERCOT	AC	300-399			6	2013	Tesla	Riley	131.2	OH								3278	AEP/ETT		100	13TPIT0022	Planned	Reliability		
2011	US	TRE	ERCOT	AC	300-399			9	2013	Dermott	Clear Crossing	180.6	OH								3278	AEP/ETT		100	13TPIT0030	Planned	Reliability		
2011	US	TRE	ERCOT	AC	300-399			9	2013	Edith Clarke	Clear Crossing	158.4	OH								3278	AEP/ETT		100	13TPIT0032	Planned	Reliability		
2011	US	TRE	ERCOT	AC	300-399			9	2013	Clear Crossing	West Shackleford	67.6	OH								3278	AEP/ETT		100	13TPIT0033	Planned	Reliability		
2011	US	TRE	ERCOT	AC	300-399			12	2013	Willow Creek	Dermott Switch	220	OH								44372	Oncor Electric Delivery		100	13TPIT0035	planned	Reliability		
2011	US	TRE	ERCOT	AC	300-399			6	2013	Krum West	Riley	322.8	OH								44372	Oncor Electric Delivery		100	13TPIT0036	planned	Reliability		
2011	US	TRE	ERCOT	AC	300-399			6	2013	Hicks Switch	Willow Creek	80.4	OH								44372	Oncor Electric Delivery		100	13TPIT0039	planned	Reliability		
2011	US	TRE	ERCOT	AC	300-399			9	2013	White Deer	Hereford	91.2	OH								17008	SU		100	13TPIT0042	Planned	Reliability		
2011	US	TRE	ERCOT	AC	121-150			4	2017	Blumenthal	Kendall CTEC/Mountain Top	8.4	OH								11269	LCRA TSC		100	13TPIT0045	Planned	Reliability		
2011	US	TRE	ERCOT	AC	121-150			6	2013	Flatonia	Yoakum Gartner Road	27.7	OH								11269	LCRA TSC		100	13TPIT0046	Planned	Reliability		
2011	US	TRE	ERCOT	AC	121-150			8	2014	Parkway	EC Mornhinweg	8	OH								11269	LCRA TSC Lone Star Transmission, LLC		100	13TPIT0047	Planned	Reliability		
2011	US	TRE	ERCOT	AC	300-399			3	2013	Scurry County South	West Shackelford	204	OH								0			100	13TPIT0048	under construction	Reliability		



Table 6. Proposed high-voltage transmission line additions filed covering calendar Year 2011, by North American Electric Reliability Corporation, 2012 through 2021 (cont.)

Geographic Area				Voltage		Capacity		In-Service		Electrical Connection		Locations		Line Information				Conductor Characteristics		Circuits			Company Information				Project Information			
Data Year	Country	NERC Region	NERC Sub-region	Type	Operating (kV)	Design (kV)	Rating (MVA)	Month	Year	From Terminal	To Terminal	Length (Miles)	Type	Pole Type	Pole Material	Size (MCM)	Material	Bundling Arrange-ment	Present	Ultimate	Company Code	Company Name	Organizational Type	Ownership (Percent)	Project Name	Level of Certainty	Primary Driver 1	Primary Driver 2		
2011	US	TRE	ERCOT	AC	300-399			3	2013	West Shackelford	Circuit 1 - Sam Switch Circuit 2 - Navarro	402	OH								0	Lone Star Transmission, LLC		100	13TPIT0049	under construction	Reliability			
2011	US	TRE	ERCOT	AC	300-399			9	2013	Silverton	White Deer	68.2	OH								17008	SU		100	13TPIT0050	Planned	Reliability			
2011	US	TRE	ERCOT	AC	300-399			3	2013	Gray	Tesla	218	OH								0	CTT		100	13TPIT0051	Planned	Reliability			
2011	US	TRE	ERCOT	AC	300-399			9	2013	Gray	White Deer	80	OH								0	CTT		100	13TPIT0054	Planned	Reliability			
2011	US	TRE	ERCOT	AC	300-399			9	2013	Silverton	Tesla	170	OH								0	CTT		100	13TPIT0055	Planned	Reliability			
2011	US	TRE	ERCOT	AC	121-150			6	2014	Summit Substation	Williamson Substation	3.54	OH								1015	AUSTIN ENERGY		100	13TPIT0058	Planned	Reliability			
2011	US	TRE	ERCOT	AC	121-150			5	2020	Cedar Crest	Industrial	3.2	OH								44372	Oncor Electric Delivery		100	13TPIT0059	Conceptual	Reliability			
2011	US	TRE	ERCOT	AC	121-150			5	2014	Cedar Hill Switch	Mountain Creek	11.4	OH								44372	Oncor Electric Delivery		100	13TPIT0060	Conceptual	Reliability			
2011	US	TRE	ERCOT	AC	121-150			5	2015	Terrell Switch	North Terrell Tap	7.9	OH								44372	Oncor Electric Delivery		100	13TPIT0061	Conceptual	Reliability			
2011	US	TRE	ERCOT	AC	121-150			12	2012	GPI	EC Mornhinweg	2.7	OH								0	NBU		100	13TPIT0066	Planned	Reliability			
2011	US	TRE	ERCOT	AC	121-150			6	2012	Helotes	Grissom	0.5	OH								16604	CPS		100	13TPIT0068	Planned	Reliability			
2011	US	TRE	ERCOT	AC	121-150			6	2013	Panther Springs	Hill Country/Stonegate	0.1	OH								16604	CPS		100	13TPIT0069	Planned	Reliability			
2011	US	TRE	ERCOT	AC	121-150			5	2013	Kendall	Paleface	56.88	OH								11269	LCRA TSC		100	13TPIT0077	Planned	Reliability			
2011	US	TRE	ERCOT	AC	121-150			8	2014	Alvin	North Alvin	2.08	OH								40051	TNMP		100	13TPIT0079	Planned	Reliability			
2011	US	TRE	ERCOT	AC	121-150			5	2013	Killeen Switch	Harker Heights	15	OH								44372	Oncor Electric Delivery		100	13TPIT0092	Conceptual	Reliability			
2011	US	TRE	ERCOT	AC	121-150			6	2013	Lamesa	Ackerly	21.5	OH								44372	Oncor Electric Delivery		100	13TPIT0094	Conceptual	Reliability			
2011	US	TRE	ERCOT	AC	121-150			11	2013	League City	Magnolia	3.62	OH								40051	TNMP		100	13TPIT0099	Planned	Reliability			
2011	US	TRE	ERCOT	AC	121-150			12	2013	Killeen SS	Ding Dong	23.8	OH								2172	BRAZOS		100	13TPIT0106	planned	Reliability			
2011	US	TRE	ERCOT	AC	300-399			12	2013	Nelson Sharpe	Ajo	37.044	OH								3278	AEP/ETT/TCC		100	13TPIT0108	Planned	Reliability			
2011	US	TRE	ERCOT	AC	300-399			5	2013	Ajo	Rio Hondo	66.708	OH								3278	AEP/ETT/TCC		100	13TPIT0109	Planned	Reliability			
2011	US	TRE	ERCOT	AC	121-150			1	2013	Vanderbilt	Ricebird	52	OH								17583	STEC		100	13TPIT0119	Planned	Reliability			
2011	US	TRE	ERCOT	AC	121-150			10	2013	Tilden	TBD	48	OH								17583	STEC		100	13TPIT0121	Conceptual	Reliability			
2011	US	TRE	ERCOT	AC	121-150			1	2013	George West	Tilden	20.6	OH								17583	STEC		100	13TPIT0129	Planned	Reliability			
2011	US	TRE	ERCOT	AC	121-150			3	2013	San Miguel	Fashing	20.6	OH								17583	STEC		100	13TPIT0130	Conceptual	Reliability			
2011	US	TRE	ERCOT	AC	121-150			3	2013	Oaks	Fashing	38	OH								17583	STEC		100	13TPIT0131	Conceptual	Reliability			
2011	US	TRE	ERCOT	AC	121-150			5	2013	Holt Switch	Goldsmith Substation	5	OH								44372	Oncor Electric Delivery		100	13TPIT0135	Conceptual	Reliability			
2011	US	TRE	ERCOT	AC	121-150			5	2013	Odessa North Switch	Goldsmith Substation	17.3	OH								44372	Oncor Electric Delivery		100	13TPIT0137	Conceptual	Reliability			
2011	US	TRE	ERCOT	AC	121-150			3	2013	Olinger	Greenville Interchange	25	OH									TMPA		100	13TPIT0139	Conceptual	Reliability			
2011	US	TRE	ERCOT	AC	121-150			1	2013	NORTON	HACHER/ENPROD	1.98	OH								8901	CNP		100	13TPIT0141	Planned	Reliability			
2011	US	TRE	ERCOT	AC	121-150			1	2013	El Campo Substation	Nada Substation	17.5	OH								11269	LCRA TSC		100	13TPIT0143	Planned	Reliability			
2011	US	TRE	ERCOT	AC	121-150			9	2013	Oaks	TBD	5.7	OH								17583	STEC		100	13TPIT0149	Planned	Reliability			
2011	US	TRE	ERCOT	AC	121-150			5	2013	Wink Switch	Loving	16.6	OH								44372	Oncor Electric Delivery		100	13TPIT0152	Conceptual	Reliability			
2011	US	TRE	ERCOT	AC	121-150			5	2013	Moss	Odessa EHV	14.2	OH								44372	Oncor Electric Delivery		100	13TPIT0153	Conceptual	Reliability			
2011	US	TRE	ERCOT	AC	121-150			10	2013	Bruni	MEC Bruni	0.6	OH								3278	AEP/TCC		100	13TPIT0158	Planned	Reliability			
2011	US	TRE	ERCOT	AC	121-150			10	2013	Colorado City	New Oncor Breaker Station	2.1	OH								17008	SU		100	13TPIT0162	Planned	Reliability			
2011	US	TRE	ERCOT	AC	121-150			5	2013			0.25	OH								44372	Oncor Electric Delivery		100	13TPIT0163	Conceptual	Reliability			
2011	US	TRE	ERCOT	AC	121-150			6	2015	Ranchtown	Helotes/Menger Creek	0.1	OH								16604	CPS		100	14TPIT0003	Conceptual	Reliability			
2011	US	TRE	ERCOT	AC	121-150			6	2014	Highway 123	Cushman/New Berlin/Hickory Forrest	6.2	OH								11269	LCRA TSC		100	14TPIT0004	Planned	Reliability			
2011	US	TRE	ERCOT	AC	121-150			5	2017	Handley	Pantego	3.8	OH								44372	Oncor Electric Delivery		100	14TPIT0010	Conceptual	Reliability			
2011	US	TRE	ERCOT	AC	121-150			5	2020	Midland East	Windwood	1.7	OH								44372	Oncor Electric Delivery		100	14TPIT0011	Conceptual	Reliability			
2011	US	TRE	ERCOT	AC	121-150			5	2014	Mountain Creek	Norwood	7.2	OH								44372	Oncor Electric Delivery		100	14TPIT0012	Conceptual	Reliability			
2011	US	TRE	ERCOT	AC	121-150			5	2012	Norwood	East Levee	6.6	OH								44372	Oncor Electric Delivery		100	14TPIT0013	Conceptual	Reliability			
2011	US	TRE	ERCOT	AC	121-150			5	2014	NW Carrollton	Lakepointe (TNMP)	2.1	OH								44372	Oncor Electric Delivery		100	14TPIT0014	Conceptual	Reliability			
2011	US	TRE	ERCOT	AC	121-150			12	2012	Troup	Tyler Grande	13.34	OH								44372	Oncor Electric Delivery		100	14TPIT0015	Conceptual	Reliability			
2011	US	TRE	ERCOT	AC	121-150			5	2014	West Mesquite	Prairie Creek	2.8	OH								44372	Oncor Electric Delivery		100	14TPIT0016	Conceptual	Reliability			
2011	US	TRE	ERCOT	AC	121-150			6	2015	Spencer Interchange PSS/E Bus 982	Pockrus Substation PSS/E Bus 917	3.25	OH								5078	DENTON		100	14TPIT0020	Planned	Reliability			
2011	US	TRE	ERCOT	AC	121-150			6	2014	Buttercup Substation	Whitestone Substation	2.3	OH								14626	PEC		100	14TPIT0021	Planned	Reliability			
2011	US	TRE	ERCOT	AC	300-399			9	2015	Lon Hill	Sand Dollar	11.5	OH								3278	AEP/ETT		100	14TPIT0024	Planned	Reliability			
2011	US	TRE</																												

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Geographic Area				Voltage		Capacity		In-Service		Electrical Connection		Locations		Line Information		Conductor Characteristics		Circuits			Company Information				Project Information			
Data Year	Country	NERC Region	NERC Sub-region	Type	Operating (kV)	Design (kV)	Rating (MVA)	Month	Year	From Terminal	To Terminal	Length (Miles)	Type	Pole Type	Pole Material	Size (MCM)	Material	Bundling Arrange-ment	Present	Ultimate	Company Code	Company Name	Organizational Type	Ownership (Percent)	Project Name	Level of Certainty	Primary Driver 1	Primary Driver 2
2011	US	TRE	ERCOT	AC	300-399			9	2015	Sand Dollar	Las Brisas	2	OH								3278	AEP/ETT		100	14TPIT0026	Planned	Reliability	
2011	US	TRE	ERCOT	AC	121-150			5	2018	Lake Creek	Robinson	8.3	OH								44372	Oncor Electric Delivery		100	14TPIT0029	Conceptual	Reliability	
2011	US	TRE	ERCOT	AC	300-399			12	2012	Martin Lake	Mount Enterprise	1.2	OH								44372	Oncor Electric Delivery		100	14TPIT0037	Conceptual	Reliability	
2011	US	TRE	ERCOT	AC	121-150			6	2014	Northland Substation	Mag Plant Substation	4.11	OH								1015	AUSTIN ENERGY		100	14TPIT0038	Planned	Reliability	
2011	US	TRE	ERCOT	AC	121-150			6	2014	Springwoods	Rayford/Louetta	3.1	OH								8901	CNP		100	14TPIT0040	Planned	Reliability	
2011	US	TRE	ERCOT	AC	121-150			12	2014	Coliseum	Kirby	4.2	OH								16604	CPS		100	14TPIT0041	Planned	Reliability	
2011	US	TRE	ERCOT	AC	121-150			6	2014	Five Points	Broadview	9.4	OH								16604	CPS		100	14TPIT0042	Planned	Reliability	
2011	US	TRE	ERCOT	AC	121-150			6	2014	Skyline	Tri_Conty/Wiederstein west Denton, North Denton, Jim Cristal, Arco, Pockrus, Teasley, Industrial	0.1	OH								16604	CPS		100	14TPIT0043	Conceptual	Reliability	
2011	US	TRE	ERCOT	AC	121-150			5	2014	West Denton, North Denton, Jim Cristal, Arco, Pockrus, Teasley, Industrial	Pockrus, Teasley, Industrial	30	OH									TMPA	100	14TPIT0047	Conceptual	Reliability		
2011	US	TRE	ERCOT	AC	300-399			12	2014	Lon Hill	North Edinburg	122.94	OH								3278	AEP/TCC		100	14TPIT0050	Planned	Reliability	
2011	US	TRE	ERCOT	AC	121-150			5	2014	Midland East	Stanton East	18.6	OH								44372	Oncor Electric Delivery		100	14TPIT0052	Conceptual	Reliability	
2011	US	TRE	ERCOT	AC	121-150			5	2014	Moss	Westover	3.4	OH								44372	Oncor Electric Delivery		100	14TPIT0053	Conceptual	Reliability	
2011	US	TRE	ERCOT	AC	121-150			5	2020	Odessa	Odessa North	7.2	OH								44372	Oncor Electric Delivery		100	14TPIT0054	Conceptual	Reliability	
2011	US	TRE	ERCOT	AC	121-150			5	2014	Seagoville	Wilmer	10.9	OH								44372	Oncor Electric Delivery		100	14TPIT0055	Conceptual	Reliability	
2011	US	TRE	ERCOT	AC	121-150			5	2014	Northaven	Welch	6	OH								44372	Oncor Electric Delivery		100	14TPIT0056	Conceptual	Reliability	
2011	US	TRE	ERCOT	AC	121-150			5	2013	Cedar Hill Switch	Mayfield Tap North	4.3	OH								44372	Oncor Electric Delivery		100	14TPIT0057	Conceptual	Reliability	
2011	US	TRE	ERCOT	AC	121-150			5	2014	JORDAN	BARHIL	0.87	OH								8901	CNP		100	14TPIT0058c	Planned	Reliability	
2011	US	TRE	ERCOT	AC	121-150			5	2014	JORDAN	NORTON	0.87	OH								8901	CNP		100	14TPIT0058d	Planned	Reliability	
2011	US	TRE	ERCOT	AC	121-150			5	2013	BENDER	DUNCAN	1.91	OH								8901	CNP		100	14TPIT0058k	Planned	Reliability	
2011	US	TRE	ERCOT	AC	121-150			5	2013	CROSBY	BENDER	7.89	OH								8901	CNP		100	14TPIT0058l	Planned	Reliability	
2011	US	TRE	ERCOT	AC	121-150			9	2014	Atkins Substation	Briarcrest Substation	3.4	OH								2442	BTU		100	14TPIT0061	planned	Reliability	
2011	US	TRE	ERCOT	AC	121-150			6	2014	LaPalma	Palo Alto	12	OH									SU/TCC	100	14TPIT0070	Planned	Reliability		
2011	US	TRE	ERCOT	AC	300-399			9	2016	Sand Dollar	Las Brisas	2	OH								3278	AEP/ETT		100	15TPIT0003	Planned	Reliability	
2011	US	TRE	ERCOT	AC	121-150			6	2015	Converse	Deely/Skyline	0.1	OH								16604	CPS		100	15TPIT0004	Conceptual	Reliability	
2011	US	TRE	ERCOT	AC	121-150			6	2015	Green Mountain	Stonegate	11.5	OH								16604	CPS		100	15TPIT0007	Conceptual	Reliability	
2011	US	TRE	ERCOT	AC	121-150			8	2014	Hastings	Friendswood	7.3	OH								40051	TNMP		100	15TPIT0015	Planned	Reliability	
2011	US	TRE	ERCOT	AC	121-150			5	2015	Kerrville Stadium	Raymond F Barker	10.1	OH								11269	LCRA TSC		100	15TPIT0018	Planned	Reliability	
2011	US	TRE	ERCOT	AC	121-150			9	2015	PHRobinson	South Shore	5.6	OH								40051	TNMP		100	15TPIT0021	Planned	Reliability	
2011	US	TRE	ERCOT	AC	121-150			2	2015	Dobbin	Highway 6	23	OH								2172	BRAZOS		100	15TPIT0022	planned	Reliability	
2011	US	TRE	ERCOT	AC	300-399			5	2015	Lon Hill	Nelson Sharpe	20.81	OH								3278	AEP/TCC		100	15TPIT0024	Planned	Reliability	
2011	US	TRE	ERCOT	AC	121-150			5	2015	Monticello SES	Monticello Tap	20.1	OH								44372	Oncor Electric Delivery		100	15TPIT0025	Conceptual	Reliability	
2011	US	TRE	ERCOT	AC	121-150			7	2015	Wellborn Substation	Millican Substation	3.6	OH								2442	BTU		100	15TPIT0026	planned	Reliability	
2011	US	TRE	ERCOT	AC	121-150			8	2016	Longneck	Princeton	3.5	OH								40051	TNMP		100	16TPIT0003	Planned	Reliability	
2011	US	TRE	ERCOT	AC	121-150			6	2016	Farm West	Princeton	7.5	OH								40051	TNMP		100	16TPIT0005	Planned	Reliability	
2011	US	TRE	ERCOT	AC	121-150			6	2016	Climax	Longneck	7.5	OH								40051	TNMP		100	16TPIT0006	Planned	Reliability	
2011	US	TRE	ERCOT	AC	121-150			6	2016	McNeil Substation	Mag Plant Substation	3.24	OH								1015	AUSTIN ENERGY		100	16TPIT0007	Planned	Reliability	
2011	US	TRE	ERCOT	AC	121-150			12	2016	Five Points	Westside	3.8	OH								16604	CPS		100	16TPIT0009	Planned	Reliability	
2011	US	TRE	ERCOT	AC	121-150			6	2016	Hill Country	Bulverde/Stonegate	0.1	OH								16604	CPS		100	16TPIT0010	Conceptual	Reliability	
2011	US	TRE	ERCOT	AC	121-150			4	2016	Dobbin	Fish Creek	15.5	OH								2172	BRAZOS		100	16TPIT0016	planned	Reliability	
2011	US	TRE	ERCOT	AC	121-150			6	2016	South McAllen	Stewart Road	9.8	OH								3278	AEP/TCC		100	16TPIT0023	Conceptual	Reliability	
2011	US	TRE	ERCOT	AC	121-150			6	2016	Hamilton Road	Uvalde	53.7	OH								3278	AEP/TCC		100	16TPIT0024	Conceptual	Reliability	
2011	US	TRE	ERCOT	AC	300-399			6	2016	Loma Alta	N Edinburg	106.5	OH									SU/ETT	100	16TPIT0030	Planned	Reliability		
2011	US	FRCC	FRCC	AC	200-299		1195	12	2014	Manatee	Bob White	25	OH	P	C	954	ACSR	2		1 1	6452	FPL	I	100	Manatee-Bobwhite Bunnell-St. Johns	Planned	Reliability	
2011	US	FRCC	FRCC	AC	200-299		759	12	2016	St. Johns	Pellicer	21.5	OH	P	C	1431	ACSR	1		1 1	6452	FPL	I	100	Myakka-Englewood	Planned	Reliability	
2011	US	FRCC	FRCC	AC	121-150		357	12	2012	Myakka	Englewood	3.3	OH	P	C	954	ACSR	1		1 1	6452	FPL	I	100		Planned	Reliability	
2011	US	FRCC	FRCC	AC	121-150		353	5	2020	Galloway	Coconut Grove	3	OH	P	C	954	ACSR	1		1 1	6452	FPL	I	100	Coconut Grove Injection	Planned	Reliability	

Table 6. Proposed high-voltage transmission line additions filed covering calendar Year 2011, by North American Electric Reliability Corporation, 2012 through 2021 (cont.)

	Geographic Area			Voltage		Capacity		In-Service		Electrical Connection		Locations		Line Information				Conductor Characteristics		Circuits			Company Information				Project Information			
Data Year	Country	NERC Region	NERC Sub-region	Type	Operating (kV)	Design (kV)	Rating (MVA)	Month	Year	From Terminal	To Terminal	Length (Miles)	Type	Pole Type	Pole Material	Size (MCM)	Material	Bundling Arrange-ment	Present	Ultimate	Company Code	Company Name	Organizational Type	Ownership (Percent)	Project Name	Level of Certainty	Primary Driver 1	Primary Driver 2		
2011	US	FRCC	FRCC	AC	200-299		759	4	2012	Turkey Pt	Prince230		11 OH	P	C	1431	ACSR	1		1 1		6452	FPL	I	100	Princeton 230kV Injection	Complete	Reliability		
2011	US	FRCC	FRCC	AC	200-299		759	12	2017	Orange River	Collier		1 OH	P	C	1431	ACSR	2		1 1		6452	FPL	I	100	Buckingham 230kV injection	Planned	Reliability		
2011	US	FRCC	FRCC	AC	121-150		287	5	2016	Gratigny	Country Club		4.5 OH	P	C	954	ACSR	1		1 1		6452	FPL	I	100	Garden-Gratigny	Planned	Reliability		
2011	US	FRCC	FRCC	AC	121-150		282/282	10	2012	GREC Plant	Hague Switch Station		0.8 OH	P	S	795	ACSR	1		1 1		6909	GRU	M	100	Line 18 Interconnect GREC Plant to GVL System	Planned	Other		
2011	US	FRCC	FRCC	AC	200-299		668/832	12	2017	Greenland Energy Center	Nocatee		4.4 OH	P	C	1590	ACSR	1		1 1		9617	JEA	M	100	Greenland Energy Center to Nocatee 230 kV Line	Planned	Other		
2011	US	FRCC	FRCC	AC	121-150		277/326	12	2015	Lake Trafford	Lehigh South Tap		13 OH	P	C	795	ACSR	1		1 1			LCEC	M	100	LCEC Lake Trafford - Lehigh South Tap	Planned	Reliability		
2011	US	FRCC	FRCC	AC	121-150		396/404	6	2016	Immokalee West	Immokalee		2.7 OH	H	C	762	Other	1		1 2			LCEC	M	100	LCEC Immokalee West - Immokalee	Planned	Reliability		
2011	US	FRCC	FRCC	AC	121-150		396/404	12	2019	Ave Maria	Carnestown		5.7 OH	P	C	762	Other	1		1 1			LCEC	M	100	LCEC Ave Maria - Carnestown	Planned	Reliability		
2011	US	FRCC	FRCC	AC	200-299	230	919/1000	5	2013	Kathleen	Zephyrhills N		13 OH	P	S	1622	OT	1		0 1		6455	PEF	I	100	Kathleen to Zephyrhills North - Second 230 kV Line	Under Construction	Reliability		
2011	US	FRCC	FRCC	AC	200-299	230	1260/1370	5	2013	Intercession City	Gifford		12 OH	P	S	2627	OT	1		0 1		6455	PEF	I	100	Intercession to Gifford - 230 kV 3000 Amp Ckt 1	Under Construction	Reliability		
2011	US	FRCC	FRCC	AC	100-120	115	392/427	11	2012	Central Plaza	51st St		1.8 OH			1272	OT					6455	PEF	I	100	Central Plaza to 51st St - New 115 kV Line	Under Construction	Reliability		
2011	US	FRCC	FRCC	AC	100-120	230	392/427	11	2012	Brooksville West	Tangerine		5.08 OH	P	C	1622	OT					6455	PEF	I	100	brooksviwe West to Brooksville - 115 kV Line Rebuilds	Under Construction	Reliability		
2011	US	FRCC	FRCC	AC	100-120	115		11	2013	Havana	Bradfordville West		10.53 OH	P	C	1272	OT					6455	PEF	I	100	Havana to Bradfordville West - 115 kV Line Rebuild	Planned	Reliability		
2011	US	FRCC	FRCC	AC	100-120	115		5	2014	Atwater	Quincy		10.85 OH			1272	OT	1				6455	PEF	I	100	Atwater to Quincy - 115 kV Line Rebuild	Planned	Reliability		
2011	US	FRCC	FRCC	AC	100-120	115		5	2014	Brooksville West	Weeki Wachee		3.28 OH			1272	OT	1				6455	PEF	I	100	Brooksville West to Weeki Wachee Switch - 115 kV Line Rebuild	Planned	Reliability		
2011	US	FRCC	FRCC	AC	100-120	230	460	11	2015	Jasper	Wrights Chapel		9.59 OH			1622	OT					6455	PEF	I	100	Jasper to Wrights Chapel to Pine Grove Rebuild	Planned	Reliability		
2011	US	FRCC	FRCC	AC	100-120	230	392/427	5	2016	Brooksville	Tangerine		3.97 OH	P	C	1622	OT					6455	PEF	I	100	brooksviwe West to Brooksville - 115 kV Line Rebuilds	Under Construction	Reliability		
2011	US	FRCC	FRCC	AC	100-120			11	2015	Lecanto	Inverness		11 OH			1272	OT			0 1		6455	PEF	I	100	Lecanto to Inverness - New 115 kV Line	Planned	Reliability		
2011	US	FRCC	FRCC	AC	200-299	230	919/1000	11	2019	Brooksville West	Brooksville		OH			1622	OT					6455	PEF	I	100	brooksviwe West to Brooksville - New 230kV Line	Planned	Reliability		
2011	US	FRCC	FRCC	AC	100-120	115	392/427	5	2013	DELTONA	ORANGE CITY		6.2 OH			1272	OT	1		1 1		6455	PEF	I	100	Deltona to Orange City- New 115 kV Line	Under Construction	Reliability		
2011	US	FRCC	FRCC	AC	100-120	115	392/427	12	2014	BRICKYARDTP1	LIBERTY		23.6 OH			1272	OT			1		6455	PEF	I	100	Liberty to Brickyard Tap - new 115 kV Line	Planned	Reliability		
2011	US	FRCC	FRCC	AC	100-120		203/248	11	2013	CASSADAGA	MONASTERY		3.3 OH			795	AL			1		6455	PEF	I	100	23_1485_MXA _CASSADAGA to MONASTERY line	Planned	Other		
2011	US	FRCC	FRCC	AC	100-120		203/248	11	2013	DELTONA	MONASTERY		4.1 OH			795	AL			1		6455	PEF	I	100	24_1485_MXA _DELTONA to MONASTERY line	Planned	Other		
2011	US	FRCC	FRCC	AC	100-120	115	300/326	11	2013	DELEON SPRGS	DELAND WEST		8.3 OH			795	OT			1		6455	PEF	I	100	72_1016_MXA _DELAND WEST to DELEON SPRGS line	Planned	Reliability		

Table 6. Proposed high-voltage transmission line additions filed covering calendar Year 2011, by North American Electric Reliability Corporation, 2012 through 2021 (cont.)

	Geographic Area			Voltage		Capacity		In-Service		Electrical Connection		Locations		Line Information				Conductor Characteristics		Circuits		Company Information				Project Information			
Data Year	Country	NERC Region	NERC Sub-region	Type	Operating (kV)	Design (kV)	Rating (MVA)	Month	Year	From Terminal	To Terminal	Length (Miles)	Type	Pole Type	Pole Material	Size (MCM)	Material	Bundling Arrangement	Present	Ultimate	Company Code	Company Name	Organizational Type	Ownership (Percent)	Project Name	Level of Certainty	Primary Driver 1	Primary Driver 2	
2011	US	FRCC	FRCC	AC	100-120		392/427	11	2015	ORANGE CTY W	HIGHBANKS	3	OH			1272	OT			1	6455	PEF	I	100	236_1123_MX A_ORANGE CTY W to HIGHBANKS line	Planned	Other		
2011	US	FRCC	FRCC	AC	100-120		300/326	11	2015	DELTONA	HIGHBANKS	2	OH			1272	OT			1	6455	PEF	I	100	237_1123_MX A_DELTONA to HIGHBANKS line	Planned	Other		
2011	US	FRCC	FRCC	AC	100-120		392/427	11	2015	ORANGE CITY	ORANGE CTY W	1.5	OH			1272	OT			1	6455	PEF	I	100	276_1002_MX A_ORANGE CITY to ORANGE CTY W line	Planned	Other		
2011	US	FRCC	FRCC	AC	100-120		300/326	11	2015	DELTONA	ORANGE CTY W	5	OH			1272	OT			1	6455	PEF	I	100	279_1662_MX A_DELTONA to ORANGE CTY W line	Planned	Other		
2011	US	FRCC	FRCC	AC	100-120		159/214	11	2016	DELAND EAST	LK WINNEMISS	3.6	OH			795	ACSR			1	6455	PEF	I	100	171_1099_MX A_DELAND EAST to LK WINNEMISS line	Planned	Other		
2011	US	FRCC	FRCC	AC	100-120		218/262	11	2016	LK HELEN	LK WINNEMISS	3.6	OH			795	ACSR			1	6455	PEF	I	100	172_1099_MX A_LK HELEN to LK WINNEMISS line	Planned	Other		
2011	US	FRCC	FRCC	AC	100-120		160/230	5	2017	HIGGINS	115.00	MORGAN RD SW	115.00	17	OH		OT			1	6455	PEF	I	100	269_1801T2_ MJP_Morgan Rd to Higgins - Griffin	Planned	Other		
2011	US	FRCC	FRCC	AC	100-120		160/230	5	2017	GRIFFIN	115.00	MORGAN RD SW	115.00	27.8	OH		OT			1	6455	PEF	I	100	270_1801T2_ MJP_Morgan Rd to Higgins - Griffin	Planned	Other		
2011	US	FRCC	FRCC	AC	100-120	230	460	5	2015	MORGAN RD	115.00	MORGAN RD SW	115.00	5.5	OH		OT			0 1	6455	PEF	I	100	314_1801T2_ MJP_Morgan Rd to Higgins - Griffin	Planned	Reliability		
2011	US	FRCC	FRCC	AC	200-299	230	919/1000	5	2013	DISSTON	NORTHEAST	4.2	OH			1622	OT	1		1	6455	PEF	I	100	DISSTON to Northeast - New 230 kV & Disston 230/115 kV	Under Construction	Reliability		
2011	US	FRCC	FRCC	AC	200-299		1260/1370	5	2015	CITRUS CENT	INTERCESSION CITY	1.6	OH			2627	OT			1	6455	PEF	I	100	88_2134_MXA _CITRUS CENTER to INTERCESSION CITY line	Planned	Other		
2011	US	FRCC	FRCC	AC	200-299		1260/1370	5	2015	CITRUS CENT	DUNDEE	18.6	OH			2627	OT			1	6455	PEF	I	100	91_2154_MXA _CITRUS CENTER to DUNDEE line	Planned	Other	Fossil-Fired Integration	
2011	US	FRCC	FRCC	AC	200-299		1195	5	2017	Gilchrist Generating Station		Gilchrist E. Switching Stn		10	OH	P	S	2156	Other	1		0 2	21554	SEC	C	100		Conceptual	
2011	US	FRCC	FRCC	AC	121-150		115	12	2014	S.R. 70	S.R. 70 Tap	3	OH	P		556	ACSR	1		1 1	21554	SEC	C	100	PRECO SR. 70	Planned	OTHER		
2011	US	FRCC	FRCC	AC	100-120			6	2018	Birley	Branford	6	OH	P	C	477	ACSR	1		1 1	21554	SEC	C	100	CEC Birley	Planned	OTHER		
2011	US	FRCC	FRCC	AC	100-120			6	2020	Brannan Field	Black Creek	0.3	OH	P				1		1 1	21554	SEC	C	100	CEC Brannan Field	Planned	OTHER		
2011	US	FRCC	FRCC	AC	121-150			5	2014	North Trail	Lee	5.8	OH	P		762	ACSR	1		1 1	21554	SEC	C	100	LCEC North Trail	Planned	OTHER		
2011	US	FRCC	FRCC	AC	100-120		230	6	2012	Sub 14 115	Sub 17 115	3.6	OH	P	C	954	ACSR	1		1 1	18445	TAL	M	100		Planned	Reliability		
2011	US	FRCC	FRCC	AC	100-120		232	6	2013	Sub 14 115	Sub 7 115	6	OH	P	P	954	ACSR	1		1 1	18445	TAL	M	100		Planned	Reliability		
2011	US	FRCC	FRCC	AC	200-299		458	6	2013	Hopkins-Crawfordville 230 Tap	Sub 5 230	8	OH	P	S	954	ACSR	1		1 1	18445	TAL	M	100		Planned	Reliability		
2011	US	FRCC	FRCC	AC	100-120		232	6	2012	Sub 21 115	Sub 17 115	6	OH	P	P	954	ACSR	1		1 1	18445	TAL	M	100		Planned	Reliability		
2011	US	FRCC	FRCC	AC	200-299		1119	1	2017	Aspen	Polk	23.5	OH	P	S	1590	Other	1		0 1	18454	TEC	I	100	Polk 2-5 CC	Conceptual	Fossil-Fired Integration		
2011	US	FRCC	FRCC	AC	200-299		1119	1	2017	Aspen	Mines	15	OH	P	S	1590	Other	1		0 1	18454	TEC	I	100	Polk 2-5 CC	Conceptual	Fossil-Fired Integration		
2011	US	FRCC	FRCC	AC	200-299		1195	1	2017	Aspen	FishHawk (Circuit 1)	6	OH	P	S	795	Other	2		0 1	18454	TEC	I	100	Polk 2-5 CC	Conceptual	Fossil-Fired Integration		
2011	US	FRCC	FRCC	AC	200-299		1195	1	2017	Aspen	FishHawk (Circuit 2)	6	OH	P	S	795	Other	2		0 1	18454	TEC	I	100	Polk 2-5 CC	Conceptual	Fossil-Fired Integration		
2011	US	FRCC	FRCC	AC	200-299		1119	1	2017	Polk	Mines	12	OH	P	S	1590	Other	1		0 1	18454	TEC	I	100	Polk 2-5 CC	Conceptual	Fossil-Fired Integration		
2011	US	FRCC	FRCC	AC	200-299		729	5	2020	Bayside Power Station	Bayside (Bayside Biomass)	0.7	OH	P	S	1590	ACSR	1		0 1	18454	TEC	I	100		Conceptual	Fossil-Fired Integration		
2011	US	FRCC	FRCC	AC	121-150		329	12	2018	Clearvw	Himes	8.2	OH	P	C	954	AL	1		1 1	18454	TEC	I	100	Clearview-Himes 138kV circuit	Planned	Reliability		
2011	US	FRCC	FRCC	AC	200-299		1119	12	2022	WHEELER	THONOTOSASSA	8.3	OH	P	S	1590	Other	1		1 1	18454	TEC	I	100	Wheeler Road to Thonotosassa 230 kV Circuit	Planned	Reliability		
2011	US	FRCC	FRCC	AC	200-299		1119	12	2022	PEBB	WILLOW	11	OH	P	S	1590	Other	1		1 1	18454	TEC	I	100	Pebbledale to Willow Oak	Planned	Reliability		
2011	US	FRCC	FRCC	AC	200-299		1093	12	2022	WILLOW	WHEELER	20	OH	P	S	1590	ACSR	1		1 1	18454	TEC	I	100	Willow Oak to Wheeler Road	Planned	Reliability		



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	Geographic Area			Voltage		Capacity		In-Service		Electrical Connection		Locations		Line Information				Conductor Characteristics		Circuits			Company Information				Project Information			
Data Year	Country	NERC Region	NERC Sub-region	Type	Operating (kV)	Design (kV)	Rating (MVA)	Month	Year	From Terminal	To Terminal	Length (Miles)	Type	Pole Type	Pole Material	Size (MCM)	Material	Bundling Arrangement	Present	Ultimate	Company Code	Company Name	Organizational Type	Ownership (Percent)	Project Name	Level of Certainty	Primary Driver 1	Primary Driver 2		
2011	US	FRCC	FRCC	AC	200-299		1119	6	2019	Davis Rd	Dlmbry	13	OH	P	S	1590	Other	1		1 1	18454	TEC	I	100	Davis Rd-Dale Mabry	Planned	Reliability			
2011	US	FRCC	FRCC	AC	200-299		1195	1	2017	Aspen	FishHawk (Circuit 1)	6	OH			795	OT			0 1	18454	TEC	I	100	Polk 2-5 CC	Conceptual				
2011	US	FRCC	FRCC	AC	200-299		1195	1	2017	Aspen	FishHawk (Circuit 2)	6	OH			795	OT			0 1	18454	TEC	I	100	Polk 2-5 CC	Conceptual				
2011	US	FRCC	FRCC	AC	200-299		1119	1	2017	Polk	Mines	12	OH			1590	OT			0 1	18454	TEC	I	100	Polk 2-5 CC	Conceptual				
2011	US	FRCC	FRCC	AC	200-299		1118.6	6	2016	WHEELER	THONOTOSASSA	8.3	OH			1590	OT				18454	TEC	I	100	Wheeler Road to Thonotosassa 230 kV Circuit	Planned				
2011	US	FRCC	FRCC	AC	121-150		329	12	2016	Clearvw	Himes	8.2	OH			954	OT				18454	TEC	I	100	Clearview-Himes 138kV circuit	Planned				
2011	US	FRCC	FRCC	AC	200-299		1118.6	6	2018	PEBB	WILLOW	11	OH			1590	OT				18454	TEC	I	100	Pebbledale to Willow Oak	Planned				
2011	US	FRCC	FRCC	AC	200-299		1118.6	6	2018	POLKPLNT	FISHHAWK	30.5	OH			1590	OT				18454	TEC	I	100	Polk to FishHawk 230kV Ckt	Planned				
2011	US	FRCC	FRCC	AC	200-299		1093.5	6	2018	WILLOW	WHEELER	20	OH			1590	ACSR				18454	TEC	I	100	Willow Oak to Wheeler Road	Planned				
2011	US	FRCC	FRCC	AC	200-299		1118.6	6	2019	Davis Rd	Dlmbry	13	OH			1590	OT				18454	TEC	I	100	Davis Rd-Dale Mabry	Planned				
2011	US	MRO	MISO	AC	121-150	138	290	3	2012	Canal	Dunn Road	7.64	OH												Canal-Dunn Road 138 kV	Planned	Reliability			
2011	US	MRO	MISO	AC	200-299	230	495	12	2012	Boswell	Wilton	72	OH									MPC, XEL, OTP, MP			Bemidji-Grand Rapids 230 kV Line	Planned	Reliability			
2011	US	MRO	MISO	AC	300-399	345	2085	5	2013	Alexandria SS	Quarry (St. Cloud)	65	OH									GRE, XEL, OTP, MP, MRES			Fargo, ND - St Cloud/Monticel lo, MN area 345 kV project	Under Construction	Reliability			
2011	US	MRO	MISO	AC	300-399	345	2085	3	2015	Bison	Alexandria SS	130	OH									GRE, XEL, OTP, MP, MRES			Fargo, ND - St Cloud/Monticel lo, MN area 345 kV project	Under Construction	Reliability			
2011	US	MRO	MISO	AC	300-399	345	1195 MVA SE	6	2013	Cardinal (formerly West Middleton)	Rockdale/Albion	35	OH									ATC LLC			Rockdale-West Middleton 345 kV	Planned	Reliability			
2011	US	MRO	MISO	AC	151-199	161	445	6	2013	Monroe County (XEL)	Council Creek (ATC)	17.3	OH									ATC LLC			Monroe County - Council Creek 161 kV line projects	Planned	Reliability			
2011	US	MRO	MISO	AC	100-120	115	316	12	2012	Crooked Lake	Enterprise Park	4	OH									GRE			Crooked Lake - Enterprise Park 115 kV line	Planned	Reliability			
2011	US	MRO	MISO	AC	121-150	138	266	4	2012	N. LaSalle	Wedron Fox River	25	OH									AmerenIL			LaSalle Area Development	Planned	Reliability			
2011	US	MRO	MISO	AC	121-150	138	266	7	2013	Ottawa	Wedron Fox River	8	OH									AmerenIL			LaSalle Area Development	Planned	Reliability			
2011	US	MRO	MISO	AC	121-150	138	287/287	6	2012	Northeast	Oak Grove	5	OH									Vectren			New Northeast to Oak Grove to Culley Line 138 kV	Under Construction	Economics or Congestion			
2011	US	MRO	MISO	AC	300-399	345	2050	9	2015	Hampton Corner	North Rochester	36	OH									XEL, RPU, SMPA, DPC, WPPI			SE Twin Cities - Rochester, MN - LaCrosse, WI 345 kV project	Planned	Variable/Renewable Integration	Reliability		
2011	US	MRO	MISO	AC	151-199	161	400	12	2012	North Rochester	Northern Hills	12.6	OH									XEL, RPU, SMPA, DPC, WPPI			SE Twin Cities - Rochester, MN - LaCrosse, WI 345 kV project	Planned	Variable/Renewable Integration	Reliability		
2011	US	MRO	MISO	AC	151-199	161	400	3	2015	North Rochester	Chester	14	OH									XEL, RPU, SMPA, DPC, WPPI			SE Twin Cities - Rochester, MN - LaCrosse, WI 345 kV project	Planned	Variable/Renewable Integration	Reliability		
2011	US	MRO	MISO	AC	300-399	345	2050	3	2014	North Rochester	North La Crosse	82	OH									XEL, RPU, SMPA, DPC, WPPI			SE Twin Cities - Rochester, MN - LaCrosse, WI 345 kV project	Planned	Variable/Renewable Integration	Reliability		
2011	US	MRO	MISO	AC	300-399	345	2066	4	2015	Brookings County	Lyon County 345 kV	48.1	OH									GRE			Brookings, SD - SE Twin Cities 345 kV	Planned	Reliability			
2011	US	MRO	MISO	AC	300-399	345	2066	9	2013	Lyon County	Cedar Mountain	51.9	OH									GRE			Brookings, SD - SE Twin Cities 345 kV	Planned	Reliability			

Table 6. Proposed high-voltage transmission line additions filed covering calendar Year 2011, by North American Electric Reliability Corporation, 2012 through 2021 (cont.)

	Geographic Area			Voltage		Capacity		In-Service		Electrical Connection		Locations		Line Information		Conductor Characteristics			Circuits		Company Information				Project Information				
Data Year	Country	NERC Region	NERC Sub-region	Type	Operating (kV)	Design (kV)	Rating (MVA)	Month	Year	From Terminal	To Terminal	Length (Miles)	Type	Pole Type	Pole Material	Size (MCM)	Material	Bundling Arrange-ment	Present	Ultimate	Company Code	Company Name	Organizational Type	Ownership (Percent)	Project Name	Level of Certainty	Primary Driver 1	Primary Driver 2	
2011	US	MRO	MISO	AC	300-399	345	2066	9	2013	Lyon County	Cedar Mountain	51.9	OH									GRE				Brookings, SD - SE Twin Cities 345 kV	Planned	Reliability	
2011	US	MRO	MISO	AC	300-399	345	2066	11	2013	Cedar Mountain	Helena	62.2	OH									GRE				Brookings, SD - SE Twin Cities 345 kV	Planned	Reliability	
2011	US	MRO	MISO	AC	300-399	345	2066	11	2013	Cedar Mountain	Helena	62.2	OH									GRE				Brookings, SD - SE Twin Cities 345 kV	Planned	Reliability	
2011	US	MRO	MISO	AC	300-399	345	2066	4	2014	Helena	Lake Marion	26.6	OH									GRE				Brookings, SD - SE Twin Cities 345 kV	Planned	Reliability	
2011	US	MRO	MISO	AC	300-399	345	2066	6	2014	Lake Marion	Hampton Corner	18.5	OH									GRE				Brookings, SD - SE Twin Cities 345 kV	Planned	Reliability	
2011	US	MRO	MISO	AC	300-399	345	2066	3	2015	Lyon County	Hazel	23.5	OH									GRE				Brookings, SD - SE Twin Cities 345 kV	Planned	Reliability	
2011	US	MRO	MISO	AC	200-299	230	1558	3	2015	Hazel	Minnesota Valley	6	OH									GRE				Brookings, SD - SE Twin Cities 345 kV	Planned	Reliability	
2011	US	MRO	MISO	AC	100-120	115	336	2	2014	Cedar Mountain	Franklin	5	OH									GRE				Brookings, SD - SE Twin Cities 345 kV	Planned	Reliability	
2011	US	MRO	MISO	AC	300-399	345	1430/1430	6	2012	AB Brown	Reid (BREC)	25.7	OH										Vectren			New Transmission Line Gibson (Cinergy) to AB Brown (Vectren) to Reid (BREC)	Under Construction	Reliability	
2011	US	MRO	MISO	AC	300-399	345	1195	12	2012	Salem	Hazleton	81	OH										ITCM			Hazleton - Salem 345 kV line with a 2nd Salem 345/161 kV 448 MVA transformer.	Planned	Reliability	
2011	US	MRO	MISO	AC	151-199	161	326/326 MVA	12	2012	Lewis Fields	Hiawatha	8.5	OH										ITCM			Lewis Fields 161 kV substation which taps the SwampFX - Coggon 115 kV line	Planned	Economics or Congestion	
2011	US	MRO	MISO	AC	151-199	161	335	6	2013	Morgan Valley	Beverly	7.9	OH										ITCM			Build a new 345 kV Morgan Valley (Beverly) substation which taps the Arnold -Tiffin 345 kV line	Planned	Economics or Congestion	
2011	US	MRO	MISO	AC	121-150	138	282	12	2012	Rochelle	Ridgeway	1.04	UG										DEM			Ashland to Rochelle 138	Planned	Reliability	
2011	US	MRO	MISO	AC	121-150	138	282	6	2012	Ridgeway	Ashland	1.31	UG										DEM			Ashland to Rochelle 138	Planned	Reliability	
2011	US	MRO	MISO	AC	300-399	345	1386	1	2014	Bloomington	Pritchard	15	OH										IPL			Bloomington to Pritchard to Franklin to Hanna 345 kV line	Conceptual	Economics or Congestion	
2011	US	MRO	MISO	AC	300-399	345	956	1	2014	Pritchard	Franklin Twp	24	OH										IPL			Bloomington to Pritchard to Franklin to Hanna 345 kV line	Conceptual	Economics or Congestion	
2011	US	MRO	MISO	AC	300-399	345	1386	1	2014	Franklin Twp	Hanna	2.75	OH										IPL			Bloomington to Pritchard to Franklin to Hanna 345 kV line	Conceptual	Economics or Congestion	
2011	US	MRO	MISO	AC	121-150	138	306	6	2013	Qualitech	Pittsboro Jct	3.3	OH										DEM			Qualitech to Pittsboro new 138kv line	Planned	Economics or Congestion	
2011	US	MRO	MISO	AC	151-199	161	326/326 MVA	12	2012	Eldora	Iowa Falls Industrial	2	OH										ITCM			Marshalltown-Franklin 115kV conversion to 161kV.	Planned	Reliability	
2011	US	MRO	MISO	AC	100-120	120	351 MVA	5	2013	Tahoe	Wixom	2.6	OH										ITC			Tahoe	Planned	Other	
2011	US	MRO	MISO	AC	100-120	115	175 MVA	6	2012	Clear Lake	Woodmin	7.5	OH										ATC LLC			Clear Lake-Woodmin 115 kV	Planned	Other	
2011	US	MRO	MISO	AC	151-199	161	447 MVA	6	2012	Pleasant Valley	Byron	25	OH										XEL			Required for Generation Interconnection Request, G362	Planned	Variable/Renewable Integration	

Table 6. Proposed high-voltage transmission line additions filed covering calendar Year 2011, by North American Electric Reliability Corporation, 2012 through 2021 (cont.)

	Geographic Area			Voltage		Capacity		In-Service		Electrical Connection		Locations		Line Information		Conductor Characteristics		Circuits		Company Information				Project Information				
Data Year	Country	NERC Region	NERC Sub-region	Type	Operating (kV)	Design (kV)	Rating (MVA)	Month	Year	From Terminal	To Terminal	Length (Miles)	Type	Pole Type	Pole Material	Size (MCM)	Material	Bundling Arrangement	Present	Ultimate	Company Code	Company Name	Organizational Type	Ownership (Percent)	Project Name	Level of Certainty	Primary Driver 1	Primary Driver 2
2011	US	MRO	MISO	AC	600+	765	4008	8	2018	DEM Brookston	AEP Sullivan	126	OH									Non-MISO			AEP Sullivan to DEM Brookston 765	Conceptual	Variable/Renewable Integration	Reliability
2011	US	MRO	MISO	AC	600+	765	3576	8	2018	DEM Brookston	Greentown	66	OH									DEM, Non-MISO			DEM Brookston to Greentown 765	Conceptual	Variable/Renewable Integration	Reliability
2011	US	MRO	MISO	AC	300-399	345	0	12	2019	Big Stone South	Ellendale	145	OH									OTP, MDU			Ellendale to Big Stone South	Planned	Reliability	Economics or Congestion
2011	US	MRO	MISO	AC	300-399	345	0	12	2017	Big Stone South	Brookings 345 kV double circuit	65	OH									OTP, XEL			Big Stone South to Brookings	Planned	Variable/Renewable Integration	Reliability
2011	US	MRO	MISO	AC	200-299	230	0	12	2017	Big Stone	Big Stone South	2	OH									OTP, XEL			Big Stone South to Brookings	Planned	Variable/Renewable Integration	Reliability
2011	US	MRO	MISO	AC	200-299	230	0	12	2017	Big Stone	Big Stone South	2	OH									OTP, XEL			Big Stone South to Brookings	Planned	Variable/Renewable Integration	Reliability
2011	US	MRO	MISO	AC	300-399	345	1793	6	2018	Meredosia	Ipava	43	OH									AmerenIL			Meradosia to Ipava	Conceptual	Variable/Renewable Integration	Reliability
2011	US	MRO	MISO	AC	300-399	345	1793	6	2018	Meredosia	Pawnee	58	OH									AmerenIL			Meradosia to Pawnee	Conceptual	Economics or Congestion	Variable/Renewable Integration
2011	US	MRO	MISO	AC	300-399	345	1793	6	2020	Mt. Zion	Pana	30	OH									AmerenIL			Pana to Mt. Zion	Conceptual	Economics or Congestion	Variable/Renewable Integration
2011	US	MRO	MISO	AC	300-399	345	1793	6	2020	Mt. Zion	Kansas	52	OH									AmerenIL			Mt. Zion to Kansas	Conceptual	Economics or Congestion	Variable/Renewable Integration
2011	US	MRO	MISO	AC	300-399	345	1793	6	2017	Rising	Sidney	27	OH									AmerenIL			Rising to Sidney 345 kV line	Conceptual	Economics or Congestion	
2011	US	MRO	MISO	AC	300-399	345	1793	6	2020	Kansas	Sugar Creek	23.7	OH									AmerenIL			Kansas to Sugar Creek	Conceptual	Economics or Congestion	Variable/Renewable Integration
2011	US	MRO	MISO	AC	300-399	345	1793	6	2017	Ottumwa	Thomas Hill	105	OH									AmerenMO, ITCM			Thomas Hill - Adair - Ottumwa 345	Conceptual	Variable/Renewable Integration	Reliability
2011	US	MRO	MISO	AC	300-399	345	0	6	2014	Beaver	Davis Besse	50	OH									FE			Beaver - Davis Besse #2 345kV Line	Planned	Variable/Renewable Integration	Economics or Congestion
2011	US	MRO	MISO	AC	121-150	138	0	6	2012	Line 1364 (new tap)	Washington Street Substation	0.17	OH									AmerenIL			Washington Street Substation	Planned	Reliability	
2011	US	MRO	MISO	AC	300-399	345	1793	6	2016	Lutesville	Northwest Cape	11	OH									AmerenMO			Northwest Cape Area 345/161 kV Substation	Conceptual	Reliability	Economics or Congestion
2011	US	MRO	MISO	AC	100-120	115	361 MVA	6	2012	Benton Co	Mayhew Lake	4	OH									XEL			St. Cloud Loop	Planned	Reliability	
2011	US	MRO	MISO	AC	300-399	345	1793	12	2016	Fargo	Maple Ridge	20	OH									AmerenIL			New 345kV Supply at Fargo Substation	Planned	Reliability	Economics or Congestion
2011	US	MRO	MISO	AC	200-299	230	423	4	2012	Boswell	Essar Mine Sub (Calumet)	16	OH									MP			Essar	Planned	Other	
2011	US	MRO	MISO	AC	200-299	230	423	1	2015	Essar steel plant sub	Shannon	8	OH									MP			Essar	Planned	Other	
2011	US	MRO	MISO	AC	200-299	230	465	7	2012	Blackberry	Essar Mine Sub (Calumet)	16	OH									MP			Essar	Planned	Other	
2011	US	MRO	MISO	AC	200-299	230	465	3	2012	Essar Mine Sub (Calumet)	Essar steel plant sub (McCarthy Lake)	2.5	OH									MP			Essar	Planned	Other	
2011	US	MRO	MISO	AC	121-150	138	202	12	2012	Skibo	Hoyt Lakes	3	OH									MP			Skibo	Conceptual	Reliability	
2011	US	MRO	MISO	AC	100-120	115	0	10	2012	Sartell	Le Sauk	3	OH									GRE			Sartell (SEA) 3.0 mile, 115 kV line	Planned	Other	
2011	US	MRO	MISO	AC	100-120	115	0	6	2013	Northport	Northport Tap	1	OH									GRE			Northport (BENCO) 1 mile, dbl ckt 115 kV line	Planned	Other	
2011	US	MRO	MISO	AC	100-120	115	0	5	2017	St. Lawrence	St. Lawrence Tap	0.5	OH									GRE			St. Lawrence Substation and Tap - MVEC	Planned	Other	
2011	US	MRO	MISO	AC	100-120	115	~360	6	2012	Hiawatha	Midtown	1.25	OH									XEL			South Minneapolis	Planned	Reliability	
2011	US	MRO	MISO	AC	300-399	345	2110	12	2020	Spring Green	Dubuque Co	75.13	OH									ATC LLC, ITCM			Dubuque Co - Spring Green 345 kV project	Conceptual	Variable/Renewable Integration	Reliability
2011	US	MRO	MISO	AC	300-399	345	2110	12	2020	Spring Green	Cardinal	28	OH									ATC LLC			Dubuque Co - Spring Green 345 kV project	Conceptual	Variable/Renewable Integration	Reliability
2011	US	MRO	MISO	AC	100-120	120	0	12	2012	Ariel (formerly Holland)	Wheeler	0.1	OH									ITC			Ariel Substation (formerly Holland)	Planned	Other	
2011	US	MRO	MISO	AC	100-120	120	0	12	2012	Ariel (formerly Holland)	Troy	0.1	OH									ITC			Ariel Substation (formerly Holland)	Planned	Other	
2011	US	MRO	MISO	AC	100-120	120	0	6	2015	St Antoine	Essex	5.1	UG									ITC			St Antoine-Essex #2 120 kV	Conceptual	Reliability	
2011	US	MRO	MISO	AC	300-399	345	0	6	2016	Raun	WAPA Sioux City	23	OH									MEC			Raun-Sioux City 345 kV Line	Conceptual	Economics or Congestion	Reliability

Table 6. Proposed high-voltage transmission line additions filed covering calendar Year 2011, by North American Electric Reliability Corporation, 2012 through 2021 (cont.)

	Geographic Area			Voltage		Capacity		In-Service		Electrical Connection		Locations		Line Information				Conductor Characteristics			Circuits		Company Information				Project Information			
Data Year	Country	NERC Region	NERC Sub-region	Type	Operating (kV)	Design (kV)	Rating (MVA)	Month	Year	From Terminal	To Terminal	Length (Miles)	Type	Pole Type	Pole Material	Size (MCM)	Material	Bundling Arrange-ment	Present	Ultimate	Company Code	Company Name	Organizational Type	Ownership (Percent)	Project Name	Level of Certainty	Primary Driver 1	Primary Driver 2		
2011	US	MRO	MISO	AC	121-150	138	240	12	2015	Wood River-North Staunton-1436	Tap to Supply North Alton 138-34.5 kV Sub	4	OH									AmerenIL			North Alton Substation Supply	Planned	Other			
2011	US	MRO	MISO	AC	121-150	138	240	6	2014	Wood River-Stallings-1456	Tap to Supply North Alton 138-34.5 kV Sub	4	OH									AmerenIL			North Alton Substation Supply	Planned	Other			
2011	US	MRO	MISO	AC	151-199	161	280	6	2016	Warrenton	Lincoln 138-34.5 kV Bulk	10	OH									AmerenMO			Warrenton-Lincoln Bulk 161 kV Line	Conceptual	Reliability			
2011	US	MRO	MISO	AC	121-150	138	411	6	2014	Bondville	S.W. Campus	8	OH									AmerenIL			Bondville-S.W. Campus Quincy Area	Planned	Economics or Congestion			
2011	US	MRO	MISO	AC	300-399	345	1793	6	2017	Palmyra	Quincy	10	OH									AmerenIL			345/138 kV Substation	Conceptual	Variable/Renewable Integration	Economics or Congestion		
2011	US	MRO	MISO	AC	300-399	345	1793	6	2018	Hutsonville Plant	Merom	12	OH									AmerenIL			Newton-Hutsonville-Merom 345 kV Line	Conceptual	Reliability			
2011	US	MRO	MISO	AC	300-399	345	1793	6	2018	Quincy Area	Meredosia	40	OH									AmerenIL			Quincy-Meredosia 345 kV Line	Conceptual	Reliability	Variable/Renewable Integration		
2011	US	MRO	MISO	AC	300-399	345	0	6	2018	Fargo	Oak Grove	70	OH									AmerenIL, MEC			Fargo-Uak Grove 345 kV Line	Conceptual	Reliability			
2011	US	MRO	MISO	AC	100-120	115	120	10	2014	Dickinson Basin	Dickinson West	5	OH									MDU			Dickinson 115 kV Loop	Planned	Reliability			
2011	US	MRO	MISO	AC	100-120	115	120	10	2014	North Dickinson	Dickinson West	3	OH									MDU			Dickinson 115 kV Loop	Planned	Reliability			
2011	US	MRO	MAPP	AC	151-199	161	332	11	2013	AMES Plant 161 kV Substation	NE Ankeny 161 kV Substation	22	OH	P	W	T2-397	ACSR	1		1	554	Ames, City of	M	100	AMES Plant - NE Ankeny 161 kV Line	Conceptual	Reliability	Economics / Congestion		
2011	US	MRO	MAPP	AC	300-399	345	1200	1	2016	AVS 345	NESET 345	190	OH	P	S		ACSR	1		1 1		Basin Electric		100	AVS-NESET 345	Planned	Reliability			
2011	US	MRO	MAPP	AC	100-120	115	140	6	2014	Snake Creek 115	Neset 115	160	OH	H	W		ACSR	1		1 1		Basin Electric		100	Snake Creek-Neset 115	Planned	Reliability			
2011	US	MRO	MAPP	AC	100-120	115	140	12	2013	Blaisdell 115	Berthold 115	15	OH	H	W		ACSR	1		1 1		Basin Electric		100	Blaisdell-Berhold 115	Planned	Reliability			
2011	US	MRO	MAPP	AC	100-120	115	140	6	2013	S.Gap 115	Watford City 115	40	OH	h	w		ACSR	1		1 1		Basin Electric		100	S.Gap-Watford City 115	Conceptual	Reliability			
2011	US	MRO	MAPP	AC	100-120	115	140	1	2014	Culbertson 115	Grenora 115	45	OH	h	w		ACSR	1		1 1		Basin Electric		100	Culbertson-Grenora	Conceptual	Reliability			
2011	US	MRO	MAPP	AC	300-399	345	1000	1	2015	Brookings County, SD	Hampton, MN	230	OH	P	S		ACSR	2		2 2		3519	Central MN Municipal Power Agency	M	2.2	CapX	Under Construction	Reliability	Economics / Congestion	
2011	US	MRO	MAPP	AC	300-399	345	1206	12	2013	CENTER 345 KV SUBSTATION	PRAIRIE 345 KV SUBSTATION (NEW)	250	OH	P	S	959.6	ACSR	2		1 1		12658	MINNKOTA POWER COOPERATIVE, INC.	C	100	CENTER-GRAND FORKS 345 KV TRANSMISSION LINE	Planned	Reliability	Fossil-Fired Integration	
2011	US	MRO	MAPP	AC	200-299	230	641	12	2012	WILTON 230 KV SUBSTATION	CASS LAKE 230 KV SUBSTATION (NEW)	19	OH	H	S	795	ACSS	1		1 1		12658	MINNKOTA POWER COOPERATIVE, INC.	C	31.5	BEMIDJI - CASS LAKE 230 KV TRANSMISSION LINE	Planned	Reliability	Fossil-Fired Integration	
2011	US	MRO	MAPP	AC	200-299	230	641	12	2012	CASS LAKE 230 KV SUBSTATION (NEW)	BOSWELL 230 KV SUBSTATION (NEW)	51	OH	H	S	795	ACSS	1		1 1		12658	MINNKOTA POWER COOPERATIVE, INC.	C	31.5	CASS LAKE - BOSWELL 230 KV TRANSMISSION LINE	Planned	Reliability	Fossil-Fired Integration	
2011	US	MRO	MAPP	AC	200-299	230		12	2016	Lower Brule dbl ckt	Big Bend	2.1	OH			1272	ACSR	1		2 2		Western Area Power		100	Big Bend-Lower Brule	Planned	Reliability	Reliability		
2011	US	MRO	MAPP	AC	200-299	230		12	2016	Lower Brule	Fort Thompson	9.3	OH			1272	ACSR	1		2 2		Western Area Power		100	Big Bend-Lower Brule	Planned	Reliability	Reliability		
2011	US	MRO	MAPP	AC	200-299	230		12	2016	Lower Brule	Reliance	19.5	OH			1272	ACSR	1		2 2		Western Area Power		100	Big Bend-Lower Brule	Planned	Reliability	Reliability		
2011	US	NPCC	New England	AC	100-120	115	238	6	2015	Rochester Substation	North Rochester Substation	6.89	OH	TBD	W	795	ACSR	1		1 1		15472	PSNH	I	100	Rochester Area	Planned	Reliability	Reliability	
2011	US	NPCC	New England	AC	100-120	115	380	5	2014	Orrington	Coopers Mills	54	OH	H	W	795	ACSR	2		1 1		3266	CMP	I	100	MPRP	Planned	Reliability	Reliability	
2011	US	NPCC	New England	AC	100-120	115	282	12	2014	Larrabee Road	Middle St	5.7	OH	P	W	1113	ACSR	1		1 1		3266	CMP	I	100	MPRP	Planned	Reliability	Reliability	
2011	US	NPCC	New England	AC	100-120	115	282	12	2014	Middle St	Lewiston Lower	1.2	UG	U	W	1500	CU	1		1 1		3266	CMP	I	100	MPRP	Planned	Reliability	Reliability	
2011	US	NPCC	New England	AC	100-120	115	282	2	2013	Larrabee Road	Livermore Falls	24.1	OH	P	W	1113	ACSR	1		1 1		3266	CMP	I	100	MPRP	Planned	Reliability	Reliability	
2011	US	NPCC	New England	AC	100-120	115	282	4	2013	Livermore Falls	Rumford IP	20.4	OH	P	W	1113	ACSR	1		1 1		3266	CMP	I	100	MPRP	Planned	Reliability	Reliability	
2011	US	NPCC	New England	AC	100-120	115	282	5	2012	Wyman Hydro	Rice Rips Tap (Heywood Rd)	39	OH	P	W	1113	ACSR	1		1 1		3266	CMP	I	100	Section 241 Somerset County Reinforcement	Planned	Reliability	Reliability	
2011	US	NPCC	New England	AC	100-120	115	TBD	12	2014	Brayton Point Station	Somerset	3.4	OH	TBD	TBD	TBD	TBD	TBD		TBD		13433	NGRID	I	100	Greater Rhode Island Upgrades	Planned	Reliability	Reliability	
2011	US	NPCC	New England	AC	100-120	115	259	8	2013	Millbury	Tower	6.9	OH	T	S	954	ACSR	1		0 1		13433	NGRID	I	100	Central/Western MA upgrades	Planned	Reliability	Reliability	
2011	US	NPCC	New England	AC	100-120	115	232	12	2012	King St	West Amesbury	7.2	OH	P	S	795	ACSR	1		0 1		13433	NGRID	I	100	Merrimack Valley/North Shore	Planned	Reliability	Reliability	
2011	US	NPCC	New England	AC	100-120	115	262	1	2016	Otter River	East Winchendon	5.7	OH	H	W&S	954	ACSR	TBD		0 1		13433	NGRID	I	100	Central/Western MA upgrades	Planned	Reliability	Reliability	
2011	US	NPCC	New England	AC	100-120	115	179	4	2012	North Bloomingdale	Vernon	3.6	UG	U	O	2000	CU	1		0 0		13433	NGRID	I	100	Worcester Area Upgrades	Planned	Reliability	Reliability	
2011	US	NPCC	New England	AC	100-120	115	TBD	12	2014	Somerset	Bell Rock	3.7	TBD	TBD	TBD	TBD	TBD	TBD		TBD		13433	NGRID	I	100	Greater Rhode Island Upgrades	Planned	Reliability	Reliability	



Table 6. Proposed high-voltage transmission line additions filed covering calendar Year 2011, by North American Electric Reliability Corporation, 2012 through 2021 (cont.)

	Geographic Area			Voltage		Capacity		In-Service		Electrical Connection		Locations		Line Information				Conductor Characteristics		Circuits			Company Information				Project Information			
Data Year	Country	NERC Region	NERC Sub-region	Type	Operating (kV)	Design (kV)	Rating (MVA)	Month	Year	From Terminal	To Terminal	Length (Miles)	Type	Pole Type	Pole Material	Size (MCM)	Material	Bundling Arrange-ment	Present	Ultimate	Company Code	Company Name	Organizational Type	Ownership (Percent)	Project Name	Level of Certainty	Primary Driver 1	Primary Driver 2		
2011	US	NPCC	New England	AC	100-120	115	TBD	12	2014	West Walpole	Holbrook	0	TBD	T	S	954	ACSS	1		2	2	1998	NSTAR	I	100	Boston Area Enhancements	Planned	Reliability	Reliability	
2011	US	NPCC	New England	AC	100-120	115	TBD	12	2013	Canal	Barnstable	0	TBD	P	W	TBD	TBD	TBD		1	1	1998	NSTAR	I	100	Mid Cape Reliability Project	Conceptual	Reliability	Reliability	
2011	US	NPCC	New England	AC	100-120	115	TBD	12	2015	Wakefield	Everett	0	TBD	TBD	TBD	TBD	TBD	TBD		TBD	13433	NGRID	I	100	Greater Boston - North	Conceptual	Reliability	Reliability		
2011	US	NPCC	New England	AC	100-120	115	TBD	12	2015	Woburn	Hartwell Ave	6.4	OH	TBD	TBD	TBD	TBD	TBD		TBD	1998	NSTAR	I	100	Greater Boston - Western Suburbs	Conceptual	Reliability	Reliability		
2011	US	NPCC	New England	AC	100-120	115	696	12	2014	Northfield Mt. Substation	Erving Substation	1.2	OH	P	S	1272	ACSS	2		1	1	20455	WMECO	I	100	Pittsfield/Greenfield Area	Planned	Reliability	Reliability	
2011	US	NPCC	New England	AC	100-120	115	TBD	12	2022	Glenbrook Substation	Southend S/S	0	UG	U	TBD	TBD	TBD	TBD		TBD	4176	CL&P	I	100	Stamford Area Lyman Substation	Conceptual	Reliability	Reliability		
2011	US	NPCC	New England	AC	100-120	115	TBD	12	2022	Holyoke Fairmont South	Lyman Substation	0	OH	TBD	TBD	1113	ACSR	TBD		TBD	8776	HGE	I	100	Granite/Middlesex	Conceptual	Reliability	Reliability		
2011	US	NPCC	New England	AC	200-299	230	496	12	2022	Granite S/S	Middlesex S/S	16	TBD	P	N/A	954	ACSR	1		1	1	19899	VELCO	I	100		Conceptual	Reliability	Reliability	
2011	US	NPCC	New England	AC	300-399	345	2169	12	2014	Carver	Bourne	17.9	TBD	P	S	1703	OT	1		1	1	1998	NSTAR	I	100	Long Term Lower SEMA	Planned	Reliability	Reliability	
2011	US	NPCC	New England	AC	300-399	345	2172	12	2015	West Farnum S/S	CT/RI Border	17.7	OH	H	S	1590	ACSR	2		1	1	13433	NGRID	I	100	NEEWs	Planned	Reliability	Reliability	
2011	US	NPCC	New England	AC	300-399	345	2172	12	2015	Millbury S/S	West Farnum S/S	20.2	OH	H	S	1590	ACSR	2		1	1	13433	NGRID	I	100	NEEWs	Planned	Reliability	Reliability	
2011	US	NPCC	New England	AC	300-399	345	1353	4	2013	Kent County	West Farnum S/S	21.4	OH	H	S	2900	ACC	2		1	1	13433	NGRID	I	100	NEEWs	Under Construction	Reliability	Reliability	
2011	US	NPCC	New England	AC	300-399	345	2420	12	2015	Card S/S	Lake Road S/S	29.3	OH	H	S	1590	ACSS	2		1		4176	CL&P	I	100	NEEWs	Planned	Reliability	Reliability	
2011	US	NPCC	New England	AC	300-399	345	2420	12	2017	Lake Road S/S	CT/RI Border	7.6	OH	H	S	1590	ACSS	2		1		4176	CL&P	I	100	NEEWs	Planned	Reliability	Reliability	
2011	US	NPCC	New England	AC	300-399	345	2420	12	2016	Frost Bridge S/S	North Bloomfield S/S	35.4	OH	P	S	1590	ACSS	2		2		4176	CL&P	I	100	NEEWs	Planned	Reliability	Reliability	
2011	US	NPCC	New England	AC	300-399	345	2420	12	2013	Manchester	Meekville Jct.	2.7	OH	P	S	1590	ACSS	2		2		4176	CL&P	I	100	NEEWs	Planned	Reliability	Reliability	
2011	US	NPCC	New England	AC	300-399	345	2420	12	2013	North Bloomfield S/S	CT/MA Border	12	OH	H	W	1590	ACSS	2		2		4176	CL&P	I	100	NEEWs	Planned	Reliability	Reliability	
2011	US	NPCC	New England	AC	300-399	345	2420	12	2013	Agawam S/S	Ludlow S/S	16.9	OH	P	S	1590	ACSS	2		2		20455	WEMECO	I	100	NEEWs	Under Construction	Reliability	Reliability	
2011	US	NPCC	New England	AC	300-399	345	2151	12	2013	Orrington S/S	Albion Road S/S	59	OH	H	W	1590	ACSR	2		1	1	3266	CMP	I	100	MPRP	Under Construction	Reliability	Reliability	
2011	US	NPCC	New England	AC	300-399	345	2151	3	2014	Albion Road S/S	Coopers Mills S/S	21	OH	H	W	1590	ACSR	2		1	1	3266	CMP	I	100	MPRP	Under Construction	Reliability	Reliability	
2011	US	NPCC	New England	AC	300-399	345	2151	9	2014	Larrabee Road S/S	Coopers Mills S/S	34.3	OH	H	W	1590	ACSR	2		1	1	3266	CMP	I	100	MPRP	Under Construction	Reliability	Reliability	
2011	US	NPCC	New England	AC	300-399	345	2151	10	2012	Larrabee Road S/S	Surowiec S/S	17	OH	H	W	1590	ACSR	2		1	1	3266	CMP	I	100	MPRP	Under Construction	Reliability	Reliability	
2011	US	NPCC	New England	AC	300-399	345	2151	6	2013	Surowiec S/S	Raven Farm S/S	12.4	OH	H	W	1590	ACSR	2		1	1	3266	CMP	I	100	MPRP	Under Construction	Reliability	Reliability	
2011	US	NPCC	New England	AC	300-399	345	2151	11	2012	Maguire Road S/S	South Gorham S/S	21	OH	H	W	1590	ACSR	2		1	1	3266	CMP	I	100	MPRP	Planned	Reliability	Reliability	
2011	US	NPCC	New England	AC	300-399	345	2151	11	2013	Maguire Road S/S	Three Rivers Switchyard	19.2	OH	H	W	1590	ACSR	2		1	1	3266	CMP	I	100	MPRP	Planned	Reliability	Reliability	
2011	US	NPCC	New England	AC	300-399	345	2420	12	2016	Scobie S/S	PSNH/NGRID Border	10.8	TBD	H	W	1590	ACSS	2		1	1	15472	PSNH	I	100	Greater Boston North - South - Central	Planned	Reliability	Reliability	
2011	US	NPCC	New England	DC	300-399	300	TBD	6	2016	Quebec/NH Border	Franklin	140	TBD	TBD	TBD	TBD	TBD	TBD		TBD		TBD	Northern Pass Transmission LLC	I	100	Northern Pass Transmission Project	Conceptual	Reliability	Reliability	
2011	US	NPCC	New England	AC	300-399	345	TBD	6	2016	Franklin	Deerfield	40	TBD	TBD	TBD	TBD	TBD	TBD		TBD		TBD	Northern Pass Transmission LLC	I	100	Northern Pass Transmission Project	Conceptual	Reliability	Reliability	
2011	US	NPCC	New England	AC	100-120	115	340	9	2013	Grand Isle S/S	Mill River	0.1	OH	P	S	1590	ACSR	1		1	1	194971	UI	I	100	8300 Line Configuration	Planned	Reliability	Reliability	
2011	US	NPCC	New England	AC	100-120	115	282	12	2013	Lake Road S/S	Section 833B Tap	4	OH	P	W	1113	ACSR	1		1	1	3266	CMP	I	100	Lakewood Reinforcement	Planned	Reliability	Reliability	
2011	US	NPCC	New England	AC	100-120	115	153	12	2012	Mystic	Everett	0.5	UG	U	O	2250	CU	TBD		TBD		1998	NSTAR	I	65	Wernham Valley/North Shore Reliability Project	Planned	Reliability	Reliability	
2011	US	NPCC	New England	AC	100-120	115	325	12	2013	Medway #65	Border with Milford	2	OH	T&H	S&W	954	ACSS	1		1	1	1998	NSTAR	I	100	Greater Boston - South	Planned	Reliability	Reliability	
2011	US	NPCC	New England	AC	100-120	115	325	12	2013	Border with Bellingham	Border with Milford	2	OH	T&H	S&W	954	ACSS	1		1	1	1998	NSTAR	I	100	Greater Boston - South	Planned	Reliability	Reliability	
2011	US	NPCC	New England	AC	100-120	115	TBD	6	2012	ANP Blackstone	NEA Bellingham Tap	1.2	OH	T	S	900	ACSS	2		1	1	1998	NSTAR	I	100	NEEWs	Planned	Reliability	Reliability	
2011	US	NPCC	New England	AC	300-399	345	TBD	12	2016	Woburn	Tewsbury	0	OH	TBD	TBD	TBD	TBD	TBD		TBD		1998	NSTAR	I	100	Greater Boston - North	Conceptual	Reliability	Reliability	
2011	US	NPCC	New England	AC	100-120	345	TBD	12	2016	Woburn	N. Cambridge	0	UG	U	O	TBD	TBD	TBD		TBD		1998	NSTAR	I	100	Greater Boston - North	Conceptual	Reliability	Reliability	
2011	US	NPCC	New England	AC	100-120	115	TBD	12	2013	Woburn	Burlington	3.7	OH	H	W	1113	ACSS	TBD		1	1	1998	NSTAR	I	100	Greater Boston - Western Suburbs	Conceptual	Reliability	Reliability	

Table 6. Proposed high-voltage transmission line additions filed covering calendar Year 2011, by North American Electric Reliability Corporation, 2012 through 2021 (cont.)

	Geographic Area			Voltage		Capacity		In-Service		Electrical Connection		Locations		Line Information				Conductor Characteristics		Circuits		Company Information				Project Information			
Data Year	Country	NERC Region	NERC Sub-region	Type	Operating (kV)	Design (kV)	Rating (MVA)	Month	Year	From Terminal	To Terminal	Length (Miles)	Type	Pole Type	Pole Material	Size (MCM)	Material	Bundling Arrange-ment	Present	Ultimate	Company Code	Company Name	Organizational Type	Ownership (Percent)	Project Name	Level of Certainty	Primary Driver 1	Primary Driver 2	
2011	US	NPCC	New England	AC	100-120	115	TBD	12	2016	Mystic	Chelsea	0	UG	U	O	TBD	TBD	TBD		TBD	1998	NSTAR	I	100	Greater Boston - Central	Conceptual	Reliability	Reliability	
2011	US	NPCC	New England	AC	100-120	115	TBD	12	2016	Mystic	Woburn	0	UG	U	O	TBD	TBD	TBD		TBD	1998	NSTAR	I	100	Greater Boston - Central	Conceptual	Reliability	Reliability	
2011	US	NPCC	New England	AC	100-120	115	TBD	12	2016	Needham	Baker Street	0	UG	U	O	TBD	TBD	TBD		TBD	1998	NSTAR	I	100	Greater Boston - Central	Conceptual	Reliability	Reliability	
2011	US	NPCC	New England	AC	100-120	115	TBD	12	2016	Sudbury	Hudson	0	OH	TBD	TBD	TBD	TBD	TBD		TBD	1998	NSTAR	I	100	Greater Boston - Western Suburbs	Conceptual	Reliability	Reliability	
2011	US	NPCC	New England	AC	100-120	115	TBD	12	2015	Bourne	Falmouth Tap	0	TBD	TBD	TBD	TBD	TBD	TBD		1	1	1998	NSTAR	I	100	Mid Cape Reliability Project	Conceptual	Reliability	Reliability
2011	US	NPCC	New England	AC	100-120	115	TBD	12	2015	Bourne	Oak Street	0	TBD	TBD	TBD	TBD	TBD	TBD		1	1	1998	NSTAR	I	100	Mid Cape Reliability Project	Conceptual	Reliability	Reliability
2011	US	NPCC	New England	AC	100-120	115	TBD	12	2015	Oak Street	Barnstable	0	TBD	TBD	TBD	TBD	TBD	TBD		1	1	1998	NSTAR	I	100	Mid Cape Reliability Project	Conceptual	Reliability	Reliability
2011	US	NPCC	New England	AC	300-399	345	2169	12	2012	Carver	Oak Street	30.7	TBD	P	S	1703	OT	1		1	1	1998	NSTAR	I	100	Long Term Lower SEMA	Planned	Reliability	Reliability
2011	US	NPCC	New England	AC	300-399	345	2420	12	2013	Agawam S/S	CT/MA Border	6	OH	H	W	1590	ACSS	2		2	20455	WMECO	I	100	NEEWs	Planned	Reliability	Reliability	
2011	US	NPCC	New England	AC	100-120	115	TBD	12	2016	Fitzwilliam S/S	Monadnock S/S	2.5	OH	TBD	TBD	TBD	TBD	TBD		TBD	15472	PSNH	I	100	Western New Hampshire Solution	Conceptual	Reliability	Reliability	
2011	US	NPCC	New England	AC	100-120	115	TBD	12	2016	Scobie S/S	Huse Rd. S/S	6	OH	TBD	TBD	TBD	TBD	TBD		TBD	15472	PSNH	I	100	Southern New Hampshire Solution	Conceptual	Reliability	Reliability	
2011	US	NPCC	New England	AC	100-120	115	TBD	12	2016	Madbury S/S	Portsmouth S/S	13	OH	TBD	TBD	TBD	TBD	TBD		TBD	15472	PSNH	I	100	Seacost New Hampshire Solution	Conceptual	Reliability	Reliability	
2011	US	NPCC	New England	AC	100-120	115	TBD	12	2016	Scobie S/S	Chester S/S	6	OH	TBD	TBD	TBD	TBD	TBD		TBD	15472	PSNH	I	100	Seacost New Hampshire Solution	Conceptual	Reliability	Reliability	
2011	US	NPCC	New England	AC	100-120	115	TBD	12	2022	Glenbrook S/S	South End S/S	1.8	UG	TBD	TBD	TBD	TBD	TBD		TBD	4176	CL&P	I	100	SWCT Advanced Solutions	Conceptual	Reliability	Reliability	
2011	US	NPCC	New England	AC	100-120	115	TBD	12	2013	Coopers Mills	Highland Substation	0	TBD	TBD	TBD	TBD	TBD	TBD		TBD	3266	CMP	I	100	Line Configuration Central Vermont	Planned	Reliability	Reliability	
2011	US	NPCC	New England	AC	300-399	345	TBD	12	2016	West Rutland	Coolidge	27	TBD	TBD	TBD	TBD	TBD	TBD		TBD	19899	VELCO	I	100	Central Vermont Solution	Planned	Reliability	Reliability	
2011	US	NPCC	New England	AC	100-120	115	TBD	12	2016	Coolidge	Ascutney	15	TBD	TBD	TBD	TBD	TBD	TBD		TBD	19899	VELCO	I	100	Central Vermont Solution	Planned	Reliability	Reliability	
2011	US	NPCC	New York	DC	300-399	320		6	2016	Quebec - NY	Astoria Annex 345kV		UG									Transmission Developers Inc.			Planned	Reliability			
2011	US	NPCC	New York	AC	100-120	115	1114	6	2020	St. Pool	High Falls	5.63	OH			1-795	ACSR			1		CHGE			Planned	Reliability			
2011	US	NPCC	New York	AC	100-120	115	1114	6	2020	High Falls	Kerhonkson	10.03	OH			1-796	ACSR			1		CHGE			Planned	Reliability			
2011	US	NPCC	New York	AC	100-120	115	1114	6	2020	Kerhonkson	Honk Falls	9.94	OH			1-797	ACSR			2		CHGE			Planned	Reliability			
2011	US	NPCC	New York	AC	100-120	115	1114	6	2020	Modena	Galeville	4.62	OH			1-798	ACSR			1		CHGE			Planned	Reliability			
2011	US	NPCC	New York	AC	100-120	115	1851	6	2013	Galeville	Kerhonkson	8.96	OH			1-799	ACSR			1		CHGE			Planned	Reliability			
2011	US	NPCC	New York	AC	121-150	138	1851	6	2013	Shoreham	Brookhaven	0	OH			2300	AL			1		LIPA			Planned	Reliability			
2011	US	NPCC	New York	AC	121-150	138	1851	6	2013	Shoreham	Wildwood	1	OH			2300	AL			1		LIPA			Planned	Reliability			
2011	US	NPCC	New York	AC	121-150	138	3124	6	2013	Wildwood	Brookhaven	6.3	OH			2300	AL			1		LIPA			Planned	Reliability			
2011	US	NPCC	New York	AC	121-150	138	3124	6	2013	Holbrook	Holtsville GT	0	OH			2-1750	AL			1		LIPA			Planned	Reliability			
2011	US	NPCC	New York	AC	121-150	138	3124	6	2013	Holbrook	West Bus	0.2	OH			2-1750	AL			1		LIPA			Planned	Reliability			
2011	US	NPCC	New York	AC	121-150	138	3124	6	2013	West Bus	Holtsville GT	0.12	OH			2-1750	AL			1		LIPA			Planned	Reliability			
2011	US	NPCC	New York	AC	121-150	138	3124	6	2013	Sill Rd	Holtsville GT	0	OH			2-1750	AL			1		LIPA			Planned	Reliability			
2011	US	NPCC	New York	AC	121-150	138	3124	6	2013	Sill Rd	West Bus	9.35	OH			2-1750	AL			1		LIPA			Planned	Reliability			
2011	US	NPCC	New York	AC	121-150	138	3124	6	2013	West Bus	Holtsville GT	0.12	OH			2-1750	AL			1		LIPA			Planned	Reliability			
2011	US	NPCC	New York	AC	121-150	138	2087	6	2013	Pilgrim	Holtsville GT	0	OH			2493	ACSR			1		LIPA			Planned	Reliability			
2011	US	NPCC	New York	AC	121-150	138	2087	6	2013	Pilgrim	West Bus	11.74	OH			2493	ACSR			1		LIPA			Planned	Reliability			
2011	US	NPCC	New York	AC	121-150	138	1399	6	2014	Riverhead	Wildwood	10.63	OH			1192	ACSR			1		LIPA			Planned	Reliability			
2011	US	NPCC	New York	AC	200-299	230	876	12	2013	Moses	Willis	0	OH			795	ACSR			2		NYPA			Planned	Reliability			
2011	US	NPCC	New York	AC	200-299	230	876	12	2013	Moses	Willis	37.11	OH			795	ACSR			1		NYPA			Planned	Reliability			
2011	US	NPCC	New York	AC	200-299	230	876	12	2013	Moses	Willis	37.11	OH			795	ACSR			1		NYPA			Planned	Reliability			
2011	US	NPCC	New York	AC	300-399	345	2100	6	2012	Oakdale	Fraser	56.9	OH			2-1033.5	ACSR			1		NYSEG			Planned	Reliability			
2011	US	NPCC	New York	AC	300-399	345	2020	6	2012	Oakdale	Clarks Corners	21.15	OH			2-1280.5	ACAR	ACCR		1		NYSEG			Planned	Reliability			
2011	US	NPCC	New York	AC	100-120	115		6	2015	Spier	Rotterdam	32.7	OH			795	ACSR			1		NG			Planned	Reliability			
2011	US	NPCC	New York	AC	121-150	138		6	2014	Burns	Corporate Drive	4	OH			796	ACSR			1		O&R			Planned	Reliability			
2011	US	NPCC	New York	AC	300-399	345	2177	12	2016	BPS Station	Rochester	3.8	OH			2-797	ACSR			1		RGE			Planned	Reliability			
2011	US	NPCC	New York	AC	100-120	115		5	2012	Wood Street	Carmel	1.34	OH			477	ACCR					NYSEG			Under Construction	Reliability			
2011	US	NPCC	New York	AC	100-120	115		5	2012	Wood Street	Katonah	11.7	OH			477	ACCR					NYSEG			Under Construction	Reliability			
2011	US	NPCC	New York	AC	100-120	115		5	2012	Greenbush	Hudson	0	OH			605	ACCR					NGRID			Under Construction	Reliability			

Table 6. Proposed high-voltage transmission line additions filed covering calendar Year 2011, by North American Electric Reliability Corporation, 2012 through 2021 (cont.)

Geographic Area		Voltage		Capacity		In-Service		Electrical Connection		Locations		Line Information				Conductor Characteristics		Circuits			Company Information				Project Information					
Data Year	Country	NERC Region	NERC Sub-region	Type	Operating (kV)	Design (kV)	Rating (MVA)	Month	Year	From Terminal	To Terminal	Length (Miles)	Type	Pole Type	Pole Material	Size (MCM)	Material	Bundling Arrange-ment	Present	Ultimate	Company Code	Company Name	Organizational Type	Ownership (Percent)	Project Name	Level of Certainty	Primary Driver 1	Primary Driver 2		
2011	US	NPCC	New York	AC	100-120	115		5	2012	Greenbush	Klinekill Tap	20.3	OH			605	ACCR									Under Construction	Reliability			
2011	US	NPCC	New York	AC	100-120	115		5	2012	Klinekill Tap	Hudson	6.13	OH			605	ACCR									Under Construction	Reliability			
2011	US	RFC	PJM	AC	121-150	121-150	159			Capital Ave	Capital Ave Substation	0.1	OH	Wood Single Pole		0.3364	ACSR	Single		1			Consumers Energy	I	100	Capital Ave	Conceptual	Other		
2011	US	RFC	PJM	AC	121-150	121-150	159			Chums Corner Jct	Chums Corner Substation	1.1	OH	Wood Single Pole		0.3364	ACSR	Single		1			Consumers Energy	I	100	Chums Corner	Conceptual	Other		
2011	US	RFC	PJM	AC	121-150	121-150	159			Eagle's Landing Jct	Eagle's Landing Substation	0.05	OH	Wood Single Pole		0.3364	ACSR	Single		1			Consumers Energy	I	100	Eagle's Landing	Conceptual	Other		
2011	US	RFC	PJM	AC	121-150	121-150	159			Fausett Jct	Fausett Substation	0.05	OH	Wood Single Pole		0.3364	ACSR	Single		1			Consumers Energy	I	100	Fausett	Conceptual	Other		
2011	US	RFC	PJM	AC	121-150	121-150	159			Hawthorne Jct	Hawthorne Substation	0.02	OH	Wood Single Pole		0.3364	ACSR	Single		1			Consumers Energy	I	100	Hawthorne	Conceptual	Other		
2011	US	RFC	PJM	AC	121-150	121-150	159			Maines Rd Jct	Maines Rd Substation	0.05	OH	Wood Single Pole		0.3364	ACSR	Single		1			Consumers Energy	I	100	Maines Rd	Conceptual	Other		
2011	US	RFC	PJM	AC	121-150	121-150	159			Ryno Jct	Ryno Substation	0.1	OH	Wood Single Pole		0.3364	ACSR	Single		1			Consumers Energy	I	100	Ryno	Conceptual	Other		
2011	US	RFC	PJM	AC	121-150	121-150	159			Scenic Lake Jct	Scenic Lake Substation	0.05	OH	Wood Single Pole		0.3364	ACSR	Single		1			Consumers Energy	I	100	Scenic Lake	Conceptual	Other		
2011	US	RFC	PJM	AC	121-150	121-150	159			Egan Jct	Egan Substation	2.5	OH	Wood Single Pole		0.3364	ACSR	Single		1			Consumers Energy	I	100	Egan	Conceptual	Other		
2011	US	RFC	PJM	AC	121-150	121-150	159			Forest Grove Jct	Forest Grove Substation	1	OH	Wood Single Pole		0.3364	ACSR	Single		1			Consumers Energy	I	100	Forest Grove	Conceptual	Other		
2011	US	RFC	PJM	AC	121-150	121-150	159			Haakwood Jct	Haakwood Substation	0.04	OH	Wood Single Pole		0.3364	ACSR	Single		1			Consumers Energy	I	100	Haakwood	Conceptual	Other		
2011	US	RFC	PJM	AC	121-150	121-150	159			Snyder Jct	Snyder Substation	0.02	OH	Wood Single Pole		0.3364	ACSR	Single		1			Consumers Energy	I	100	Snyder	Conceptual	Other		
2011	US	RFC	PJM	AC	300-399	300-399	1200		2012	Wheatland	Bloomington	61	OH			954	ACSR					15470	DEM	I	100		Conceptual			
2011	US	RFC	PJM	AC	300-399	300-399	1793		2016	Brookston	Frankfort	53	OH			954	ACSR					15470	DEM	I	100		Conceptual			
2011	US	RFC	PJM	AC	300-399	300-399	1793		2016	Thorntown	Qualitech	23	OH			955	ACSR					15470	DEM	I	100		Conceptual			
2011	US	RFC	PJM	AC	300-399	300-399	1793		2016	Brookston	Reynolds	0.5	OH			956	ACSR					15470	DEM	I	50		Conceptual			
2011	US	RFC	PJM	AC	300-399	300-399	306		2020	Avon Industrial Park	A new Distr. Sub. (not yet named)	2.6	OH			956	ACSR					15471	DEM	I	100		Conceptual			
2011	US	RFC	PJM	AC	100-120	100-120	240			St Antoine	Essex #2	5.1	UG	U		1500	XLPE	1		1 1			ITCT	I	100	St. Antoine - Essex #2	Conceptual	Reliability	Reliability	
2011	US	RFC	PJM	AC	100-120	100-120	242			CTL 18	Southfield	0.35	UG	U		1500	XLPE	1		1 1			ITCT	I	100	Quaker - Southfield #2	Conceptual	Reliability	Reliability	
2011	US	RFC	PJM	AC	121-150	121-150				Carlos Junction	Dans Mountain	5	OH										FE(AP)	I	100	n1174	Conceptual	Integration Variable	Economics	
2011	US	RFC	PJM	AC	121-150	121-150				Ridgeley	Dans Mountain	5	OH										FE(AP)	I	100	n1174	Conceptual	Integration Variable	Economics	
2011	US	RFC	PJM	AC	121-150	121-150			2015	Sutton	Sutton Dam	0.1	OH										FE(AP)	I	100	n1350	Conceptual	Hydro Integration	Reliability	
2011	US	RFC	PJM	AC	121-150	121-150			2015	Sutton Hill	Sutton Dam	0.1	OH										FE(AP)	I	100	n1350	Conceptual	Hydro Integration	Reliability	
2011	US	RFC	PJM	AC	121-150	121-150	278/338			Broadview	Clark	5	OH	Steel Tower/Wood Pole		795	ACSR	1 per phase		1/2			FE(ATSI)	I	100		Conceptual			
2011	US	RFC	PJM	AC	121-150	121-150	160/192			Broadview	East Springfield	3.5	OH	Wood Pole		336/605	ACSR	1 per phase		1 1/2			FE(ATSI)	I	100		Conceptual			
2011	US	RFC	PJM	AC	121-150	121-150	160/192			Broadview	Tangy	3.5	OH	Wood Pole		336/605	ACSR	1 per phase		1 1/2			FE(ATSI)	I	100		Conceptual			
2011	US	RFC	PJM	AC	121-150	121-150	278/338			Broadview	Urbana	5	OH	Steel Tower/Wood Pole		795	ACSR	1 per phase		1/2			FE(ATSI)	I	100		Conceptual			
2011	US	RFC	PJM	AC	121-150	121-150	151/166	12	2018	Midway	Wauseon	0	OH	Wood Pole		336	ACSR	1 per phase		2 2			FE(ATSI)	I	100		Conceptual			
2011	US	RFC	PJM	AC	121-150	121-150	151/166	12	2018	Napoleon	Richland	0	OH	Wood Pole		336	ACSR	1 per phase		2 2			FE(ATSI)	I	100		Conceptual			
2011	US	RFC	PJM	AC	121-150	121-150	151/166	12	2018	Richland	Stryker	0	OH	Wood Pole		336	ACSR	1 per phase		1 1			FE(ATSI)	I	100		Conceptual			
2011	US	RFC	PJM	AC	121-150	121-150	236			West Nyack	Harings Corner	0.26	OH	Wood & Steel Pole		795	ACSR	1		1 1			14154	RECO	I	100	Line 701 Upgrade	Conceptual	Reliability	Reliability
2011	US	RFC	PJM	AC	121-150	121-150	287			Toytota	Scott	14	OH	Steel Pole H-Frame		954	ACSR	1		1 1			17633	SIGE	I	100	Z75 Extension	Conceptual	Reliability	
2011	US	RFC	PJM	AC	100-120	200-299	320			Quaker	CTL 18	7.05	OH	ST		1431	ACSR	1		2 2			ITCT	I	100	Quaker - Southfield #2	Conceptual	Reliability	Reliability	
2011	US	RFC	PJM	AC	200-299	200-299	576			Pere Marquette	Keystone	75	OH	ST		954	ACSR	1		2 2			METC	I	100	Pere Marquette - Keystone 230	Conceptual	Reliability	Reliability	
2011	US	RFC	PJM	AC	300-399	300-399				U2-041	East Lima / Marysville	0	OH									14006	AEP	I	100	n1647	Conceptual	Integration Variable	Economics	
2011	US	RFC	PJM	AC	400-599	400-599			2015	Browns Run	Rhodes Lane	0.1	OH										FE(AP)	I	100	n1397	Conceptual	Fossil Integration	Reliability	
2011	US	RFC	PJM	AC	400-599	400-599			2015	Yukon	Rhodes Lane	0.1	OH										FE(AP)	I	100	n1397	Conceptual	Fossil Integration	Reliability	
2011	US	RFC	PJM	AC	100-120	100-120			2015	Coldspring	Erdman	10.3	UG										BGE	I	100	b1267.1	Planned	Reliability	Economics	
2011	US	RFC	PJM	AC	100-120	100-120			2015	Coldspring	Erdman	10.3	UG										BGE	I	100	b1267.1	Planned	Reliability	Economics	
2011	US	RFC	PJM	AC	100-120	100-120				Perryman	Harford	0.4	OH										BGE	I	100	b0729	Planned	Reliability	Economics	
2011	US	RFC	PJM	AC	100-120	100-120				Perryman	Harford	0.4	OH										BGE	I	100	b0729	Planned	Reliability	Economics	
2011	US	RFC	PJM	AC	100-120	100-120			2014	Deer Park	Northwest	3	OH										BGE	I	100	b1084	Planned	Reliability	Economics	
2011	US	RFC	PJM	AC	100-120	100-120			2014	Burton	Oakwood	3.5	OH												100	b1729	Planned	Reliability	Economics / Congestion	
2011	US	RFC	PJM	AC	121-150	121-150	376			Rutland	Algonquin	5.5	OH	Steel Poles		2-556.5 kcmil	ACSR			2 2			CE		100		Planned	Reliability	Economics	

Table 6. Proposed high-voltage transmission line additions filed covering calendar Year 2011, by North American Electric Reliability Corporation, 2012 through 2021 (cont.)

Geographic Area		Voltage			Capacity		In-Service		Electrical Connection		Locations		Line Information		Conductor Characteristics				Circuits		Company Information				Project Information				
Data Year	Country	NERC Region	NERC Sub-region	Type	Operating (kV)	Design (kV)	Rating (MVA)	Month	Year	From Terminal	To Terminal	Length (Miles)	Type	Pole Type	Pole Material	Size (MCM)	Material	Bundling Arrangement	Present	Ultimate	Company Code	Company Name	Organizational Type	Ownership (Percent)	Project Name	Level of Certainty	Primary Driver 1	Primary Driver 2	
2011	US	RFC	PJM	AC	121-150	121-150	376			Rutland	Algonquin	5.5	OH	Steel Poles		2-556.5	kmil	ACSR		2	2		CE		100		Planned	Reliability	Economics
2011	US	RFC	PJM	AC	121-150	121-150	306		2013	Qualitech	Pittsboro	3.3	OH			954	ACSR				15470	DEM	I	100		Planned			
2011	US	RFC	PJM	AC	121-150	121-150	282			Ridgeway	Ashland	1.31	UG								15470	DEM	I	100		Planned	complete ring bus	new substation	
2011	US	RFC	PJM	AC	121-150	121-150	282			Ridgeway	Rochelle	1.04	UG								15470	DEM	I	100		Planned	complete ring bus	new substation	
2011	US	RFC	PJM	AC	121-150	121-150	287		2012	Vincennes	Vigo Street	2.3	OH			954	ACSR				15470	DEM	I	100		Planned	convert 69kV sub.		
2011	US	RFC	PJM	AC	121-150	121-150		12	2022	Plum	Universal	7.3	OH	Pole		853.7	ACAR	1		1	1	5487	DLCO	I	100	toi1340.2	Planned	Reliability	Economics
2011	US	RFC	PJM	AC	121-150	121-150	193		2013	East Petersburg	Howmet	0.86	OH	steel tower		556	ACSR	1		2	2		PL		100	s0059	Planned	Reliability	Economics
2011	US	RFC	PJM	AC	121-150	121-150	193		2013	Dillersville	Howmet	1.55	OH	steel tower		556	ACSR	1		2	2		PL		100	s0059	Planned	Reliability	Economics
2011	US	RFC	PJM	AC	200-299	200-299		12		Orchard	Cumberland	2.7	OH									AE	I	100	b0210.1	Planned	Reliability	Economics	
2011	US	RFC	PJM	AC	200-299	200-299			2012	Hopewell	Bull Hill	5	OH	P										100	b1172	Planned	Reliability	Economics / Congestion	
2011	US	RFC	PJM	AC	200-299	200-299			2013	Dickerson	Edwards Ferry	1	OH											100	s0169	Planned	Reliability	Economics / Congestion	
2011	US	RFC	PJM	AC	200-299	200-299			2013	Pleasant View	Edwards Ferry	1	OH											100	s0169	Planned	Reliability	Economics / Congestion	
2011	US	RFC	PJM	AC	200-299	200-299			2013	Lakeside	Northwest	11.5	OH	T						2	2			100	b1309	Planned	Reliability	Economics / Congestion	
2011	US	RFC	PJM	AC	200-299	200-299			2014	Charlottesville	Hollymeade	1	OH	H		636	ACSR	2		2	2			100	b1312	Planned	Reliability	Economics / Congestion	
2011	US	RFC	PJM	AC	200-299	200-299			2014	Gordonsville	Hollymeade	1	OH											100	b1312	Planned	Reliability	Economics / Congestion	
2011	US	RFC	PJM	AC	200-299	200-299			2014	Trowbridge	Winfall	0	OH											100	b1215	Planned	Reliability	Economics / Congestion	
2011	US	RFC	PJM	AC	200-299	200-299			2015	Cannon Branch	Cloverhill	2	OH											100	b1332	Planned	Reliability	Economics / Congestion	
2011	US	RFC	PJM	AC	200-299	200-299			2015	Liberty	Cloverhill	5.75	OH											100	b1332	Planned	Reliability	Economics / Congestion	
2011	US	RFC	PJM	AC	200-299	200-299			2015	North Anna	Oak Green	28.2	OH											100	b1321	Planned	Reliability	Economics / Congestion	
2011	US	RFC	PJM	AC	200-299	200-299			2015	Shawboro	Aydlett	16	OH	P						1	1			100	b1331	Planned	Reliability	Economics / Congestion	
2011	US	RFC	PJM	AC	200-299	200-299			2015	Harrisonburg	Endless Caverns	19.8	OH											100	b1508.1	Planned	Reliability	Economics / Congestion	
2011	US	RFC	PJM	AC	200-299	200-299			2016	Idylwood	Clark	4	OH											100	b1697	Planned	Reliability	Economics / Congestion	
2011	US	RFC	PJM	AC	200-299	200-299			2016	Hornertown	Battleboro	33	OH											100	b1794	Planned	Reliability	Economics / Congestion	
2011	US	RFC	PJM	AC	200-299	200-299			2016	Rocky Mount	Battleboro	8.6	OH											100	b1794	Planned	Reliability	Economics / Congestion	
2011	US	RFC	PJM	AC	200-299	200-299			2014	Buzzard Point	Ritchie	10.83	OH			3000								100	b1125	Planned	Reliability	Economics	
2011	US	RFC	PJM	AC	200-299	200-299	648		2017	West Pocono	North Pocono	10.6	OH	steel tower		1590	ACSR	1		1	2			100	b1813.3	Planned	Reliability	Economics	
2011	US	RFC	PJM	AC	200-299	200-299	648		2016	Jenkins	West Pocono	14.7	OH	steel tower		1590	ACSR	1		1	2			100	b1813.6	Planned	Reliability	Economics	
2011	US	RFC	PJM	AC	200-299	200-299	648		2015	Paupack	North Pocono	21.9	OH	steel tower		1590	ACSR	1		1	2			100	b1813.8	Planned	Reliability	Economics	
2011	US	RFC	PJM	AC	200-299	200-299	648		2014	Eldred	W3-022 New Albany Sw. Station(LGEE)	0.02	OH	Steel Pole		1590	ACSR	1		2	2			100	n3053.4	Planned	Variable Generation Integration	Reliability	
2011	US	RFC	PJM	AC	300-399	300-399	1244		2012	Speed		1.9	OH			954	ACSR				15470	DEM	I			Planned	LGEE		
2011	US	RFC	PJM	AC	300-399	300-399	1793		2019	Sugar Creek	Kansas (NIPS)	35	OH			954	ACSR				15470	DEM	I	100		Planned	NIPS		
2011	US	RFC	PJM	AC	300-399	300-399	1314/1592/1546/1773 MVA (SN SE WN WE)			Reynolds	Burr Oak	47	OH	S/T		2156	ACSR	1		2				100	Reynolds_Burr Oak_Hiple_345 kV_Line	Planned	Renewable Integration	Economics	
2011	US	RFC	PJM	AC	300-399	300-399	1314/1592/1546/1773 MVA (SN SE WN WE)			Burr Oak	Hiple	53	OH	S/T		2156	ACSR	1		2				100	Reynolds_Burr Oak_Hiple_345 kV_Line	Planned	Renewable Integration	Economics	
2011	US	RFC	PJM	AC	400-599	400-599			2012	Mt. Storm	Bismark	1	OH			1272	ACSR							100	n1323	Planned	Variable/Kenewable Integration	Reliability	
2011	US	RFC	PJM	AC	400-599	400-599			2012	Doubs	Bismark	1	OH			1272	ACSR							100	n1323	Planned	Variable/Kenewable Integration	Reliability	
2011	US	RFC	PJM	AC	400-599	400-599			2014	Loudoun	Brambleton	1	OH											100	b1188	Planned	Reliability	Economics / Congestion	
2011	US	RFC	PJM	AC	400-599	400-599			2014	Pleasant View	Brambleton	1	OH											100	b1188	Planned	Reliability	Economics / Congestion	
2011	US	RFC	PJM	AC	600+	600+	3576		2018	Greentown	Reynold (NIPS)	66	OH			954	ACSR	4 - BUND			15470	DEM	I	50		Planned	NIPS		
2011	US	RFC	PJM	AC	100-120	100-120	140			Englishtown	Wyckoff Street	15	OH	ST/WP		795	ACSR	1		0	1			100	b1674	Planned	Reliability	Economics	
2011	US	RFC	PJM	AC	100-120	100-120			2015	Everets	Mainesburg	0.01	OH											100	b1608	Planned	Reliability	Economics	
2011	US	RFC	PJM	AC	100-120	100-120			2015	Mansfield	Mainesburg	0.01	OH											100	b1608	Planned	Reliability	Economics	
2011	US	RFC	PJM	AC	100-120	100-120	229/278		2013	Osterburg East	Bedford North	5.7	OH	Wood Pole		795	ACSR	1 per phase		0	1			100	b1277	Planned	Reliability	Economics	
2011	US	RFC	PJM	AC	100-120	100-120	196			Wyatt	Rapson 1	1.975	OH	ST		477	ACSR	1		2	2			100	Michigan Region 4 Thumb Loop	Planned	Generation integration	Reliability	
2011	US	RFC	PJM	AC	100-120	100-120	137			Rapson	Harbor Beach	1.975	OH	ST		477	ACSR	1		2	2			100	Michigan Region 4 Thumb Loop	Planned	Generation integration	Reliability	



Table 6. Proposed high-voltage transmission line additions filed covering calendar Year 2011, by North American Electric Reliability Corporation, 2012 through 2021 (cont.)

	Geographic Area			Voltage		Capacity		In-Service		Electrical Connection		Locations		Line Information			Conductor Characteristics		Circuits			Company Information				Project Information			
Data Year	Country	NERC Region	NERC Sub-region	Type	Operating (kV)	Design (kV)	Rating (MVA)	Month	Year	From Terminal	To Terminal	Length (Miles)	Type	Pole Type	Pole Material	Size (MCM)	Material	Bundling Arrangement	Present	Ultimate	Company Code	Company Name	Organizational Type	Ownership (Percent)	Project Name	Level of Certainty	Primary Driver 1	Primary Driver 2	
2011	US	RFC	PJM	AC	121-150	121-150	669			Softshell	Bonnyman	24	OH	Steel H-frame		1590	Other	1		1	1	14006	AEP	I	100	b0838	Planned	Reliability	
2011	US	RFC	PJM	AC	121-150	121-150	205			Twin Branch	East Elkhart	17.96	OH	Steel Tower		556.5	ACSR	1		2	2	14006	AEP	I	100	b0840	Planned	Reliability	Economics
2011	US	RFC	PJM	AC	121-150	121-150	389			Biers Run	Hopetown	3	OH	Steel Single Pole		1590	ACSR	1		1	1	14006	AEP	I	100	b1032.2	Planned	Reliability	Economics
2011	US	RFC	PJM	AC	121-150	121-150	389			Biers Run	Circleville	20	OH	Steel Single Pole		1590	ACSR	1		1	1	14006	AEP	I	100	b1032.2	Planned	Reliability	Economics
2011	US	RFC	PJM	AC	121-150	121-150	389			Hopetown	Delano	3	OH	Steel Single Pole		1590	ACSR	1		1	1	14006	AEP	I	100	b1032.3	Planned	Reliability	Economics
2011	US	RFC	PJM	AC	121-150	121-150	251			South Canton	West Canton	4.1	OH	Steel Tower		795	ACSR	1		2	2	14006	AEP	I	100	b1034.1	Planned	Reliability	Economics
2011	US	RFC	PJM	AC	121-150	121-150	251			West Canton	Wayview	0	OH	Steel Tower		795	ACSR	1		2	2	14006	AEP	I	100	b1034.2	Planned	Reliability	Economics
2011	US	RFC	PJM	AC	121-150	121-150	251			Wagenhals	Wayview	9	OH	Steel Tower		795	ACSR	1		2	2	14006	AEP	I	100	b1034.1	Planned	Reliability	Economics
2011	US	RFC	PJM	AC	121-150	121-150	359			West Millersport	Gahanna	15	OH	Steel Single Pole		1590	ACSR	1		2	2	14006	AEP	I	100	b1035	Planned	Reliability	Economics
2011	US	RFC	PJM	AC	121-150	121-150	388			Hyatt	Sawmill	5.3	OH	Steel Tower		1590	ACSR	1		1	2	14006	AEP	I	100	b1052	Planned	Reliability	Economics
2011	US	RFC	PJM	AC	121-150	121-150	167			Benton Harbor	Riverside	0	OH	Steel Tower		397.5	ACSR	1				14006	AEP	I	100	b1430	Planned	Reliability	
2011	US	RFC	PJM	AC	121-150	121-150	296			East Watervliet	Benton Harbor / Hartford	5	OH	Steel Single Pole		1033.5	ACSR	1		2	2	14006	AEP	I	100	b1430	Planned	Reliability	
2011	US	RFC	PJM	AC	121-150	121-150	150			Adams	Seaman / Waverly	0	OH	Wood H-frame		336.4	ACSR	1		1	1	14006	AEP	I	100	b1466.1	Planned	Reliability	Economics
2011	US	RFC	PJM	AC	121-150	121-150	223			Seaman	Highland	17.39	OH	Wood H-frame		636	ACSR	1		1	1	14006	AEP	I	100	b1466.5	Planned	Reliability	Economics
2011	US	RFC	PJM	AC	121-150	121-150	223			Hillsboro	Highland	3	OH	Steel Single Pole		636	ACSR	1		1	1	14006	AEP	I	100	b1466.7	Planned	Reliability	Economics
2011	US	RFC	PJM	AC	121-150	121-150	156			Laporte Jct	Olive / Michigan City	0	OH	Steel Tower		397.5	ACSR	1		1		14006	AEP	I	100	b1467.2	Planned	Reliability	Economics
2011	US	RFC	PJM	AC	121-150	121-150	296			Sundial	Baileysville	6.4	OH			1033.5	ACSR	1		2	2	14006	AEP	I	100	b1470.1 / s0350	Planned	Reliability	Economics
2011	US	RFC	PJM	AC	121-150	121-150	223			Sundial	Kanawha River	0	OH	Steel Tower		636	ACSR	1		2	2	14006	AEP	I	100	b1470.3 / s0350	Planned	Reliability	Economics
2011	US	RFC	PJM	AC	121-150	121-150	223			Sundial	Baileysville	0	OH	Steel Tower		636	ACSR	1		2	2	14006	AEP	I	100	b1470.3 / s0350	Planned	Reliability	Economics
2011	US	RFC	PJM	AC	121-150	121-150	388			Robison Park	Auburn	15	OH			1590	ACSR	1		2	2	14006	AEP	I	100	b1490	Planned	Reliability	Economics
2011	US	RFC	PJM	AC	121-150	121-150	251			Kendallville	Albion / Garrett North	0	OH			795	ACSR	1				14006	AEP	I	100	b1490	Planned	Reliability	Economics
2011	US	RFC	PJM	AC	121-150	121-150	251			Pemberton	Cherry Creek	4	OH			795	ACSR	1		1		14006	AEP	I	100	b1662	Planned	Reliability	Economics
2011	US	RFC	PJM	AC	121-150	121-150	388			Jacksons Ferry	Wythe	28	OH			1590	ACSR	1		2	2	14006	AEP	I	100	b1663	Planned	Reliability	Economics
2011	US	RFC	PJM	AC	121-150	121-150	150 / 167			Findlay Tap	Fostoria Central	0	OH	Steel Tower		336.4 / 397.5	ACSR	1		2	2	14006	AEP	I	100	b1666	Planned	Reliability	Economics
2011	US	RFC	PJM	AC	121-150	121-150	150 / 167			Findlay Tap	New Liberty / North Findlay	0	OH	Steel Tower		336.4 / 397.5	ACSR	1		2	2	14006	AEP	I	100	b1666	Planned	Reliability	Economics
2011	US	RFC	PJM	AC	121-150	121-150	205			Findlay Tap	Findlay Center / Northeast Findlay	0	OH	Steel Tower		556.5	ACSR	1		2	2	14006	AEP	I	100	b1666	Planned	Reliability	Economics
2011	US	RFC	PJM	AC	121-150	121-150				Melmore	Tiffin Center	7.2	OH	Steel Tower				1		2	2	14006	AEP	I	100	b1667	Planned	Reliability	Economics
2011	US	RFC	PJM	AC	121-150	121-150				Tiffin Center	Fremont Center	12.6	OH	Steel Tower				1		2	2	14006	AEP	I	100	b1667	Planned	Reliability	Economics
2011	US	RFC	PJM	AC	121-150	121-150	205			Melmore	Greenlawn	0	OH	Steel Tower		556.5	ACSR	1		2	2	14006	AEP	I	100	b1667	Planned	Reliability	Economics
2011	US	RFC	PJM	AC	121-150	121-150	167			Melmore	West End Fostoria / Fostoria Central	0	OH	Steel Tower		397.5	ACSR	1		2	2	14006	AEP	I	100	b1667	Planned	Reliability	Economics
2011	US	RFC	PJM	AC	121-150	121-150	167			Melmore	Howard	0	OH	Steel Tower		397.5	ACSR	1		2	2	14006	AEP	I	100	b1667	Planned	Reliability	Economics
2011	US	RFC	PJM	AC	121-150	121-150	302			Trail Fork	Baileysville	0	OH	Steel Tower		397.5	ACSR	2		1	1	14006	AEP	I	100	b1781	Planned	Reliability	Economics
2011	US	RFC	PJM	AC	121-150	121-150	302			Trail Fork	Tazewell	0	OH	Steel Tower		397.5	ACSR	2		1	1	14006	AEP	I	100	b1781	Planned	Reliability	Economics
2011	US	RFC	PJM	AC	121-150	121-150	251			Lonesome Pine	Tazewell / Bluefield	0	OH			795	ACSR	1		1		14006	AEP	I	100	b1783	Planned	Reliability	Economics
2011	US	RFC	PJM	AC	121-150	121-150	205 / 251			South Bluefield	South Princeton / Bluefield	0	OH			556.5 / 795	ACSR	1		1		14006	AEP	I	100	b1783	Planned	Reliability	Economics
2011	US	RFC	PJM	AC	121-150	121-150				Lincoln	Allen	4.5	OH					1		2	2	14006	AEP	I	100	b1818	Planned	Reliability	Economics
2011	US	RFC	PJM	AC	121-150	121-150				Sterling	Allen	4.5	OH					1		2	2	14006	AEP	I	100	b1818	Planned	Reliability	Economics
2011	US	RFC	PJM	AC	121-150	121-150				Milan	Allen	4.5	OH					1		2	2	14006	AEP	I	100	b1818	Planned	Reliability	Economics
2011	US	RFC	PJM	AC	121-150	121-150				Timber Switch	Allen	4.5	OH					1		2	2	14006	AEP	I	100	b1818	Planned	Reliability	Economics
2011	US	RFC	PJM	AC	121-150	121-150	251			Vassell	Delaware	17.4	OH	Steel Tower		79													

Table 6. Proposed high-voltage transmission line additions filed covering calendar Year 2011, by North American Electric Reliability Corporation, 2012 through 2021 (cont.)

	Geographic Area			Voltage		Capacity		In-Service		Electrical Connection		Locations		Line Information				Conductor Characteristics		Circuits		Company Information				Project Information				
Date Year	Country	NERC Region	NERC Sub-region	Type	Operating (kV)	Design (kV)	Rating (MVA)	Month	Year	From Terminal	To Terminal	Length (Miles)	Type	Pole Type	Pole Material	Size (MCM)	Material	Bundling Arrangement	Present	Ultimate	Company Code	Company Name	Organizational Type	Ownership (Percent)	Project Name	Level of Certainty	Primary Driver 1	Primary Driver 2		
2011	US	RFC	PJM	AC	121-150	121-150			2013	Ronceverte	Harts Run		0 OH									FE(AP)	I	100	s0180	Planned	Reliability	Economics		
2011	US	RFC	PJM	AC	121-150	121-150			2013	Whiteley	502 Junction		6 OH			954	ACSR	1		0 2		FE(AP)	I	100	b1023.3	Planned	Reliability	Economics		
2011	US	RFC	PJM	AC	121-150	121-150			2016	Whiteley	Holbrook		5 OH			954	ACSR					FE(AP)			s0110	Planned	Reliability	Economics		
2011	US	RFC	PJM	AC	121-150	121-150	103/133		2013	Ashtabula	Stacy		10 OH	Wood Pole		477	ACSR	1 per phase		0 2		FE(ATSI)	I	100		Planned				
2011	US	RFC	PJM	AC	121-150	121-150	149/194		2014	Hayes	Avery		6.26 OH	Wood Pole		605	ACSR	1 per phase		1 1		FE(ATSI)	I	100	b1281	Planned	Reliability	Economics		
2011	US	RFC	PJM	AC	121-150	121-150	232/281	12	2017	Barberton	South Akron		8.1 OH	Steel Tower		605	ACSR	1 per phase		1 2		FE(ATSI)	I	100		Planned				
2011	US	RFC	PJM	AC	121-150	121-150	102/132				Bluebell	New Berlin Lake Area Sub		1 OH	Steel Tower		336/477	ACSR	1 per phase		2 2	0	FE(ATSI)	I	100		Planned			
2011	US	RFC	PJM	AC	121-150	121-150	163/197		2016	Bluebell	South Akron		31.6 OH	-		336.4	ACSS	1 per phase		2 2		FE(ATSI)	I	100	b1691	Planned	Reliability	Economics		
2011	US	RFC	PJM	AC	121-150	121-150	278/338		2014	Chamberlin	Shalersville		2.5 OH	Wood Pole		795	ACSR	1 per phase		0 1		FE(ATSI)	I	100		Planned				
2011	US	RFC	PJM	AC	121-150	121-150	278/343				Delta	Fulton		1 OH	Wood Pole		954	AA	1 per phase		1 1		FE(ATSI)	I	100		Planned			
2011	US	RFC	PJM	AC	121-150	121-150	185/189		2013	East Akron	Knox		0.3 OH	Wood Pole								FE(ATSI)	I	100	b1692	Planned	Reliability	Economics		
2011	US	RFC	PJM	AC	121-150	121-150	199/240			East Springfield	London		15.5 OH	Steel Tower		477	ACSR	1 per phase		1 2		FE(ATSI)	I	100	s0370	Planned	Reliability	Economics		
2011	US	RFC	PJM	AC	121-150	121-150	278/343				Fulton	Swanton		1 OH	Wood Pole		954	AA	1 per phase		1 1		FE(ATSI)	I	100		Planned			
														Steel Tower / Steel Pole / Wood Pole																
2011	US	RFC	PJM	AC	121-150	121-150	200/242		2012	Galion	Longview		0 OH			477	ACSR	1 per phase		1 1		FE(ATSI)	I	100	b1585	Planned	Reliability	Economics		
2011	US	RFC	PJM	AC	121-150	121-150	149/194			Greenfield	Hayes		4.35 OH	Wood Pole		605	ACSR	1 per phase		1 1		FE(ATSI)	I	100	b1281	Planned	Reliability	Economics		
2011	US	RFC	PJM	AC	121-150	121-150	278/338			Greenfield	Hayes		4.35 OH	Wood Pole		795	ACSR	1 per phase		1 2		FE(ATSI)	I	100	b1281	Planned	Reliability	Economics		
2011	US	RFC	PJM	AC	121-150	121-150	199/240			London	Tangy		38.64 OH	Wood Poles		477	ACSR	1 per phase		0 1		FE(ATSI)	I	100	s0369	Planned	Reliability	Economics		
2011	US	RFC	PJM	AC	121-150	121-150	103/133		2013	Mayfield	Stacy		10 OH	Wood Pole		477	ACSR	1 per phase		0 2		FE(ATSI)	I	100		Planned				
2011	US	RFC	PJM	AC	121-150	121-150	102/132				Niles	New Berlin Lake Area Sub		1 OH	Steel Tower		336/477	ACSR	1 per phase		2 2		FE(ATSI)	I	100		Planned			
2011	US	RFC	PJM	AC	121-150	121-150	278/339		2013	Niles	Salt Springs #2		3.16 OH	Steel Tower		795	ACSR	1 per phase		1 2		FE(ATSI)	I	100	b1290	Planned	Reliability	Economics		
2011	US	RFC	PJM	AC	121-150	121-150	185/189		2013	Sammis	Knox		0.3 OH	Wood Pole								FE(ATSI)	I	100	b1692	Planned	Reliability	Economics		
2011	US	RFC	PJM	AC	200-299	200-299				Mickleton	Deptford		1.7 OH									AE	I	100	b1398.3	Planned	Reliability	Economics		
2011	US	RFC	PJM	AC	200-299	200-299			2014	Conastone	Graceton		8.6 OH									BGE		100	b0497	Planned	Reliability	Economics		
2011	US	RFC	PJM	AC	200-299	200-299				Vienna	Steele		28 OH									DPL		100	b0877	Planned	Reliability	Economics		
2011	US	RFC	PJM	AC	200-299	200-299				Vienna	Loretto		16 OH									DPL			b0750	Planned	Reliability	Economics		
2011	US	RFC	PJM	AC	200-299	200-299				Loretto	Piney Grove		6 OH									DPL			b0750	Planned	Reliability	Economics		
2011	US	RFC	PJM	AC	200-299	200-299				Elko	Carbon Center Jct		5.79 OH			1272	ACSR					FE(AP)			b0673	Planned	Reliability	Economics		
2011	US	RFC	PJM	AC	200-299	200-299	719/882		2014	Conemaugh	Seward		2.4 OH	Steel Pole		1590	ACSS			0 1		FE(Penelec)	I	100	b1153	Planned	Reliability	Economics		
2011	US	RFC	PJM	AC	200-299	200-299	648		2014	Jenkins	Stanton		8.55 OH	steel tower		1590	ACSR	1/c per phase		2		PL		100	b0910	Planned	Reliability	Economics		
2011	US	RFC	PJM	AC	200-299	200-299	648		2013	Brunner Island	West Shore		16 OH	S		1590	ACSR	1		2 2		PL		100	b0717	Planned	Reliability	Economics		
2011	US	RFC	PJM	AC	200-299	200-299			2014	West Orange	Roseland		4.5 OH									PSEG		100	b1154	Planned	Reliability	Economics		
2011	US	RFC	PJM	AC	200-299	200-299			2014	West Orange	Roseland		4.5 OH									PSEG		100	b1154	Planned	Reliability	Economics		
2011	US	RFC	PJM	AC	200-299	200-299			2014	Roseland	Sewaren		29.8 OH									PSEG		100	b1154	Planned	Reliability	Economics		
2011	US	RFC	PJM	AC	200-299	200-299			2014	Camden	Burlington		13.7 OH									PSEG		100	b1155	Planned	Reliability	Economics		
2011	US	RFC	PJM	AC	200-299	200-299			2014	Camden	Cuthbert Blvd.		4.5 UG									PSEG		100	b1155	Planned	Reliability	Economics		
2011	US	RFC	PJM	AC	200-299	200-299			2014	Hudson	Kearny		2 OH									PSEG			b1304.1	Planned	Reliability	Economics		
2011	US	RFC	PJM	AC	200-299	200-299			2014	Roseland	Kearny		21.9 OH									PSEG			b1304.1	Planned	Reliability	Economics		
2011	US	RFC	PJM	AC	200-299	200-299			2015	Bergen	Athenia		10 UG									PSEG			b1304.3	Planned	Reliability			

Table 6. Proposed high-voltage transmission line additions filed covering calendar Year 2011, by North American Electric Reliability Corporation, 2012 through 2021 (cont.)

	Geographic Area			Voltage		Capacity		In-Service		Electrical Connection		Locations		Line Information				Conductor Characteristics		Circuits		Company Information				Project Information			
Data Year	Country	NERC Region	NERC Sub-region	Type	Operating (kV)	Design (kV)	Rating (MVA)	Month	Year	From Terminal	To Terminal	Length (Miles)	Type	Pole Type	Pole Material	Size (MCM)	Material	Bundling Arrangement	Present	Ultimate	Company Code	Company Name	Organizational Type	Ownership (Percent)	Project Name	Level of Certainty	Primary Driver 1	Primary Driver 2	
2011	US	RFC	PJM	AC	300-399	300-399	2568			Baker	Rapson 1	63.89	OH	ST		795	ACSR	2		2 2		ITCT	I	100	Michigan Region 4 Thumb Loop	Planned	Generation integration	Reliability	
2011	US	RFC	PJM	AC	300-399	300-399	2568			Baker	Rapson 2	63.89	OH	ST		795	ACSR	2		2 2		ITCT	I	100	Michigan Region 4 Thumb Loop	Planned	Generation integration	Reliability	
2011	US	RFC	PJM	AC	300-399	300-399	2568			Rapson	Greenwood	54.98	OH	ST		795	ACSR	2		2 2		ITCT	I	100	Michigan Region 4 Thumb Loop	Planned	Generation integration	Reliability	
2011	US	RFC	PJM	AC	300-399	300-399	2568			Rapson	Banner	33.21	OH	ST		795	ACSR	2		2 2		ITCT	I	100	Michigan Region 4 Thumb Loop	Planned	Generation integration	Reliability	
2011	US	RFC	PJM	AC	300-399	300-399	2568			SE Sandusky	Greenwood	21.77	OH	ST		795	ACSR	2		2 2		ITCT	I	100	Michigan Region 4 Thumb Loop	Planned	Generation integration	Reliability	
2011	US	RFC	PJM	AC	300-399	300-399	2568			Greenwood	Fitz 2	13.24	OH	ST		795	ACSR	2		2 2		ITCT	I	100	Michigan Region 4 Thumb Loop	Planned	Generation integration	Reliability	
2011	US	RFC	PJM	AC	300-399	300-399	2568			Greenwood	Fitz 3	13.24	OH	ST		795	ACSR	2		2 2		ITCT	I	100	Michigan Region 4 Thumb Loop	Planned	Generation integration	Reliability	
2011	US	RFC	PJM	AC	300-399	300-399	2568			Belle River	Fitz 1	3.48	OH	ST		795	ACSR	2		2 2		ITCT	I	100	Michigan Region 4 Thumb Loop	Planned	Generation integration	Reliability	
2011	US	RFC	PJM	AC	300-399	300-399	2568			Belle River	Fitz 2	3.48	OH	ST		795	ACSR	2		2 2		ITCT	I	100	Michigan Region 4 Thumb Loop	Planned	Generation integration	Reliability	
2011	US	RFC	PJM	AC	400-599	400-599	2800/3600		2012	Cranberry	Cabot	0.1	PA	Steel Tower		954	ACSR	4 per phase		0 1		FE(AP)	I	100	s0104	Planned	Reliability	Economics	
2011	US	RFC	PJM	AC	400-599	400-599	2800/3600		2012	Cranberry	Wylie Ridge	0.1	PA	Steel Tower		954	ACSR	4 per phase		0 1		FE(AP)	I	100	s0104	Planned	Reliability	Economics	
2011	US	RFC	PJM	AC	400-599	400-599	2932			Conemaugh	Jacks Mountain	0.02	OH	ST		2493	ACAR	1		1 1		FE(Penelec)		100	b0284.1	Planned	Reliability	Economics	
2011	US	RFC	PJM	AC	400-599	400-599	2932			Jacks Mountain	Juniata	0.02	OH	ST		2493	ACAR	1		1 1		FE(Penelec)		100	b0284.1	Planned	Reliability	Economics	
2011	US	RFC	PJM	AC	400-599	400-599	2932			Jacks Mountain	Juniata	0.02	OH	ST		2493	ACAR	1		1 1		FE(Penelec)		100	b0284.1	Planned	Reliability	Economics	
2011	US	RFC	PJM	AC	400-599	400-599	2932			Keystone	Jacks Mountain	0.02	OH	ST		2493	ACAR	1		1 1		FE(Penelec)		100	b0284.1	Planned	Reliability	Economics	
2011	US	RFC	PJM	AC	400-599	400-599	3005			Susquehanna	Roseland	146	OH	S		1590	ACSR	3		2 2		PL		69	b0478	Planned	Reliability	Economics	
2011	US	RFC	PJM	AC	400-599	400-599				Susquehanna	Roseland	146	OH									PSEG		100	b0478	Planned	Reliability	Economics	
2011	US	RFC	PJM	AC	600+	600+	6249			Dumont	Sorenson	7	OH	Steel Tower		954	ACSR	4		1 1		14006	AEP	I	100	b1659.14	Planned	Reliability	Economics
2011	US	RFC	PJM	AC	600+	600+	6249			Marysville	Sorenson	7	OH	Steel Tower		954	ACSR	4		1 1		14006	AEP	I	100	b1659.14	Planned	Reliability	Economics
2011	US	RFC	PJM	AC	600+	600+	4257 / 4174			Vassell	Kammer / Maliszewski	0	OH	Steel Tower		954	ACSR	4		1 1		14006	AEP	I	100	s0251	Planned	Reliability	
2011	US	RFC	PJM	AC	100-120				2014	Westport	Wilkens Ave	3	UG									BGE	I	100	TOI152	Planned	Reliability	Reliability	
2011	US	RFC	PJM	AC	121-150	121-150	394			Titibawassee	Begole		5	OH	Steel Tower		954	KCM	1		1 1		57421 / 5109 O	Invenergy/DEC	I	50 / 50	Gratiot Wind Park	Under Construction	Renewable Portfolio Requirement
2011	US	RFC	PJM	AC	300-399	300-399	1400			Reid	Brown	24.5	OH	Steel Pole H-Frame		954	ACSR	2		1 1		17633	SIGE	I	100	AB Brown to Reid 345kv	Under Construction	Reliability	
2011	US	RFC	PJM	AC	121-150	121-150	205			Wayman Switch	Sand Hill / Kammer		0	OH		556.5	ACSR	1				14006	AEP	I	100	s0356	Under Construction	Customer	
2011	US	RFC	PJM	AC	121-150	121-150	159			Birchwood Jct	Birchwood Substation	0.01	OH	Wood Single Pole		0.3364	ACSR	Single		1			Consumers Energy	I	100	Birchwood	Under Construction	Other	
2011	US	RFC	PJM	AC	121-150	121-150	159			Ratigan Jct	Ratigan Substation	0.13	OH	Wood Single Pole		0.3364	ACSR	Single		1			Consumers Energy	I	100	Ratigan	Under Construction	Other	
2011	US	RFC	PJM	AC	200-299	200-299	319		2012	Noblesville Gen. Station	Geist		0.6	OH		900	ACSR					15470	DEM	I	100		Under Construction		
2011	US	RFC	PJM	AC	200-299	200-299			2012	Fredrickburg	Garrisonville		1	OH									Dominion		100	s0124	Under Construction	Reliability	Economics / Congestion
2011	US	RFC	PJM	AC	200-299	200-299			2012	Possum Point	Garrisonville		1	OH									Dominion		100	s0124	Under Construction	Reliability	Economics / Congestion
2011	US	RFC	PJM	AC	200-299	200-299			2012	Landstown	Virginia Beach		11	OH	H	2500	AL			2 2			Dominion		100	b1071	Under Construction	Reliability	Economics / Congestion
2011	US	RFC	PJM	AC	200-299	200-299			2013	Loudoun	Middleburg		10	OH	P	636	ACSR	2		1 2			Dominion		100	b1096	Under Construction	Reliability	Economics / Congestion
2011	US	RFC	PJM	AC	200-299	200-299			2014	Loudoun	Cochran Mill		1	OH									Dominion		100	s0121	Under Construction	Reliability	Economics / Congestion
2011	US	RFC	PJM	AC	200-299	200-299			2014	Pleasant View	Cochran Mill		1	OH									Dominion		100	s0121	Under Construction	Reliability	Economics / Congestion
2011	US	RFC	PJM	AC	121-150	121-150				Carson	Forbes	2.76	UG	UG Pipe/Tower		3000/795	CU/ACSS	1		2 2		5487	DLCO	I	100	b0503	Under Construction	Reliability	Economics
2011	US	RFC	PJM	AC	121-150	121-150				Oakland	Carson	1.97	UG	UG Pipe		3000	CU/ACSS	1		1 1		5487	DLCO	I	100	b0503	Under Construction	Reliability	Economics

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	Geographic Area			Voltage		Capacity		In-Service		Electrical Connection		Locations		Line Information				Conductor Characteristics		Circuits			Company Information				Project Information			
Data Year	Country	NERC Region	NERC Sub-region	Type	Operating (kV)	Design (kV)	Rating (MVA)	Month	Year	From Terminal	To Terminal	Length (Miles)	Type	Pole Type	Pole Material	Size (MCM)	Material	Bundling Arrange-ment	Present	Ultimate	Company Code	Company Name	Organizational Type	Ownership (Percent)	Project Name	Level of Certainty	Primary Driver 1	Primary Driver 2		
2011	US	RFC	PJM	AC	121-150	121-150	278/338		2012	Cranberry	Hoytdale	2.22	OH	Steel Tower		795	ACSR	1 per phase		0 1		FE(ATSI)	I	100			Under Construction			
2011	US	RFC	PJM	AC	121-150	121-150	278/338		2012	Cranberry	Maple	0.55	OH	Steel Tower		795	ACSR	1 per phase		0 1		FE(ATSI)	I	100			Under Construction			
2011	US	RFC	PJM	AC	121-150	121-150	278/338		2012	Cranberry	Pine #1	2.22	OH	Steel Tower		795	ACSR	1 per phase		0 1		FE(ATSI)	I	100			Under Construction			
2011	US	RFC	PJM	AC	121-150	121-150	278/338		2012	Cranberry	Pine #2	0.55	OH	Steel Tower		795	ACSR	1 per phase		0 1		FE(ATSI)	I	100			Under Construction			
2011	US	RFC	PJM	AC	121-150	121-150			2013	Essex	Kearny	2	OH									PSEG		100	b0814	Under Construction	Reliability	Economics		
2011	US	RFC	PJM	AC	121-150	121-150				Bayonne	Marion	4.4	UG									PSEG		100	b1100	Under Construction	Reliability	Economics		
2011	US	RFC	PJM	AC	121-150	200-299	345			Simpson	Batavia	22.29	OH	ST		954	ACSR	1		1 1		METC	I	100	Simpson - Batavia	Under Construction	Reliability	Reliability		
2011	US	RFC	PJM	AC	200-299	200-299	328			Bradford/Clay Tap	Clay	0	OH	Steel Tower/ Steel Pole		795	ACSR	1		1/2	14940	PECO	I	100	s0178	Under Construction	Reliability	Economics		
2011	US	RFC	PJM	AC	200-299	200-299	463			Colora/Clay Tap	Clay	6.95	OH	Steel Tower/ Steel Pole		795	ACSR	1		1/2	14940	PECO	I	100	s0178	Under Construction	Reliability	Economics		
2011	US	RFC	PJM	AC	200-299	200-299			2012	Richie	Benning	5.34	OH									PEPCO		100	b0526	Under Construction	Reliability	Economics		
2011	US	RFC	PJM	AC	300-399	300-399				Arsenal	Logans Ferry	12	OH	UG Pipe/Pole		3000/1024	UC/ACAR	1		1 1	5487	DLCO	I	100	toi334.2	Under Construction	Reliability	Economics		
2011	US	RFC	PJM	AC	100-120	100-120	343			Waterman Bus 3	Zug B Bus 102	1	OH	Steel Tower		954	KCM	ACSR	1	1 1	5109	DECO	I	100	DWSD SubA Trf 3 Addition	Planned	Redundant Service	Reconfig of circuits		
2011	US	RFC	PJM	AC	100-120	100-120				Somerset	O19	0.1	OH									FE(Penelec)		100		Cancelled				
2011	US	RFC	PJM	AC	600+	600+	6500			Amos	Welton Spring	175	OH			957.2	ACSR/TW	6	1 1			PATH	I	100		Cancelled				
2011	US	RFC	PJM	AC	600+	600+	6500			Welton Spring	Kempton	100	OH			957.2	ACSR/TW	6	1 1			PATH	I	100		Cancelled				
2011	US	RFC	PJM	AC	600+	600+	6500			Amos	Welton Spring	175	OH			957.2	ACSR/TW	6	1 1			PATH	I	100		Cancelled				
2011	US	RFC	PJM	AC	600+	600+	6500			Welton Spring	Kempton	100	OH			957.2	ACSR/TW	6	1 1			PATH	I	100		Cancelled				
2011	US	SERC	SERC-E	AC	100-120	100-120	200	3	2012	Hickory Tie	Newton Tie Tap	0	OH	O	U	1272	ACSR	1		2 2	5416	Duke Energy Carolinas		100	Mull 100 kV Lines	Upgrade	Reliability			
2011	US	SERC	SERC-E	AC	151-199	151-199	275	6	2013	West Mill Tie	Swain Tie	17	OH	O	U	954	ACSR	1		2 2	5416	Duke Energy Carolinas		100	Swain 161-66 kV Tie Station	Under Construction	Reliability			
2011	US	SERC	SERC-E	AC	100-120	100-120	225	6	2014	Lawsons Fork Tie	Pinewood Ret Tap	0	OH	O	U	477	ACSR	2		2 2	5416	Duke Energy Carolinas		100	Pinewood 100 kV Lines	Upgrade	Reliability			
2011	US	SERC	SERC-E	AC	100-120	100-120	375	6	2014	Stamey Tie	EU # 18 Tap	0	OH	O	U	954	ACSR	2		2 2	5416	Duke Energy Carolinas		100	Beulah 100 kV Lines	Upgrade	Reliability			
2011	US	SERC	SERC-E	AC	100-120	100-120	225	6	2013	Dan River Steam Sta	Madison Tie	0	OH	O	U	477	ACSR	2		2 2	5416	Duke Energy Carolinas		100	Mayo 100 kV Lines	Upgrade	Fossil-Fired Integration			
2011	US	SERC	SERC-E	AC	100-120	100-120	175	6	2014	Lancaster Mn	Monroe Mn	0	OH	O	U	954	ACSR	1		2 2	5416	Duke Energy Carolinas		100	Monroe 100 kV Lines	Upgrade	Reliability			
2011	US	SERC	SERC-E	AC	100-120	100-120	375	6	2014	Lakewood Tie	Bancroft Ret Tap	0	OH	O	U	954	ACSR	2		2 2	5416	Duke Energy Carolinas		100	Oaklawn 100 kV Lines	Upgrade	Reliability			
2011	US	SERC	SERC-E	AC	100-120	100-120	225	6	2014	Winecoff Tie	Westfork Sw Sta	0	OH	O	U	477	ACSR	2		2 2	5416	Duke Energy Carolinas		100	Odell 100 kV Lines	Upgrade	Reliability			
2011	US	SERC	SERC-E	AC	200-299	200-299	850	6	2013	Shiloh Sw Sta	Pisgah Tie	0	OH	O	U	1158	ACSR	1		2 2	5416	Duke Energy Carolinas		100	Caesar 230 kV Lines (Pisgah - Shiloh)	Upgrade	Reliability			
2011	US	SERC	SERC-E	AC	200-299	200-299	750	6	2020	Riverview Sw Sta	Peach Valley Tie	0	OH	O	U	795	ACSR	2		2 2	5416	Duke Energy Carolinas		100	London Creek 230 kV Lines	Upgrade	Reliability			
2011	US	SERC	SERC-E	AC	100-120	100-120	375	6	2018	Oakvale Tie	Shady Grove Tie	0	OH	O	U	954	ACSR	2		2 2	5416	Duke Energy Carolinas		100	Oakvale 100 kV Lines	Upgrade	Reliability			
2011	US	SERC	SERC-E	AC	200-299	200-299	615	6	2017	Greenville	Kinston DuPont	30	OH	P	S	1590	ACSR	1		0 1	3046	Progress Energy Carolinas		100	Greenville-Kinston Dupont 230 kV line, construct new line.	Conceptual	Reliability			
2011	US	SERC	SERC-E	AC	200-299	200-299	1195	6	2014	Harris	RTP	22	OH	P	S	1590	ACSR	2		1 1	3046	Progress Energy Carolinas		100	Harris - RTP 230 kV line, construct new line.	Planned	Reliability			
2011	US	SERC	SERC-E	AC	100-120	100-120	308	6	2016	Asheboro	Asheboro East	0	OH	H	W	1590	OT	1		1 1	3046	Progress Energy Carolinas		100	Asheboro-Asheboro East 115kV South, Reconductor	Upgrade	Reliability			
2011	US	SERC	SERC-E	AC	100-120	100-120	308	6	2019	Asheboro	Asheboro East (2)	0	OH	H	W	1590	OT	1		1 1	3046	Progress Energy Carolinas		100	Asheboro-Asheboro East 115kV North, reconductor.	Upgrade	Reliability			
2011	US	SERC	SERC-E	AC	100-120	100-120	320	12	2012	Asheville	Enka (2)	10	OH	H	S	1590	ACSR	1		1 1	3046	Progress Energy Carolinas		100	Asheville-Enka 115 kV line, construct new line	Planned	Reliability			
2011	US	SERC	SERC-E	AC	100-120	100-120	308	12	2012	Folkstone	Castle Hayne & Jacksonville	16	OH	O	S	1590	ACSR	1		1 1	3046	Progress Energy Carolinas		100	Folkstone 230 kV, Loop-in Castle Hayne-Jacksonville 230 kV line	Planned	Reliability			
2011	US	SERC	SERC-E	AC	200-299	200-299	352	5	2014	A M Williams	Cainhoy	11	OH	H	W	795	ACSR	1		1 1	17539	South Carolina Electric & Gas Company		100	A M Williams-Cainhoy	Planned	Reliability			



Table 6. Proposed high-voltage transmission line additions filed covering calendar Year 2011, by North American Electric Reliability Corporation, 2012 through 2021 (cont.)

	Geographic Area			Voltage		Capacity		In-Service		Electrical Connection		Locations		Line Information				Conductor Characteristics		Circuits		Company Information				Project Information			
Data Year	Country	NERC Region	NERC Sub-region	Type	Operating (kV)	Design (kV)	Rating (MVA)	Month	Year	From Terminal	To Terminal	Length (Miles)	Type	Pole Type	Pole Material	Size (MCM)	Material	Bundling Arrangement	Present	Ultimate	Company Code	Company Name	Organizational Type	Ownership (Percent)	Project Name	Level of Certainty	Primary Driver 1	Primary Driver 2	
2011	US	SERC	SERC-E	AC	200-299	200-299	950	5	2016	Urquhart	Graniteville (2)	0	OH	P	S	1272	ACSR	2		2	2	17539	South Carolina Electric & Gas Company		100	Urquhart-Graniteville	Upgrade	Reliability	
2011	US	SERC	SERC-E	AC	200-299	200-299	950	4	2015	VC Summer	Killian	38	OH	P	S	1272	ACSR	2		1	1	17539	South Carolina Electric & Gas Company		100	VC Summer-Killian	Planned	Nuclear Integration	
2011	US	SERC	SERC-E	AC	200-299	200-299	950	4	2015	VC Summer #2	Lake Murray (2)	23	OH	P	S	1272	ACSR	2		1	1	17539	South Carolina Electric & Gas Company		100	VC Summer #2-Lake Murray	Planned	Nuclear Integration	
2011	US	SERC	SERC-E	AC	200-299	200-299	950	3	2013	VC Summer	VC Summer #2	1	OH	P	S	1272	ACSR	2		1	1	17539	South Carolina Electric & Gas Company		100	VC Summer-VC Summer #2	Under Construction	Nuclear Integration	
2011	US	SERC	SERC-E	AC	200-299	200-299	950	3	2013	VC Summer	VC Summer #2 (2)	1	OH	P	S	1272	ACSR	2		1	1	17539	South Carolina Electric & Gas Company		100	VC Summer-VC Summer #2	Under Construction	Nuclear Integration	
2011	US	SERC	SERC-E	AC	200-299	200-299	950	4	2015	Lyles	Denny Terrace	3	OH	P	S	1272	ACSR	2		1	1	17539	South Carolina Electric & Gas Company		100	Lyles-Denny Terrace	Planned	Nuclear Integration	
2011	US	SERC	SERC-E	AC	200-299	200-299	950	5	2014	Pepperhill	Summerville	7	OH	P	S	1272	ACSR	2		1	1	17539	South Carolina Electric & Gas Company		100	Pepperhill-Summerville	Planned	Reliability	
2011	US	SERC	SERC-E	AC	200-299	200-299	950	12	2018	VC Summer #2	St. George	135	OH	P	S	1272	ACSR	2		2	2	17539	South Carolina Electric & Gas Company		100	VC Summer #2-St. George	Planned	Nuclear Integration	
2011	US	SERC	SERC-E	AC	200-299	200-299	950	12	2018	VC Summer	VC Summer #2 (3)	1	OH	P	S	1272	ACSR	2		1	1	17539	South Carolina Electric & Gas Company		100	VC Summer-VC Summer #2	Planned	Nuclear Integration	
2011	US	SERC	SERC-E	AC	200-299	200-299	510	5	2017	AM Williams	Cainhoy (2)	9	OH	P	S	1272	ACSR	1		2	2	17539	South Carolina Electric & Gas Company		100	AM Williams-Cainhoy	Planned	Reliability	
2011	US	SERC	SERC-E	AC	100-120	100-120	130	5	2013	Belvedere	Stevens Creek	0	OH	H	W	477	ACSR	1		1	1	17539	South Carolina Electric & Gas Company		100	Belvedere-Stevens Creek	Retirement	Reliability	
2011	US	SERC	SERC-E	AC	100-120	100-120	474	5	2013	Belvedere	Stevens Creek	8	OH	P	S	1272	ACSR	1		2	2	17539	South Carolina Electric & Gas Company		100	Belvedere-Stevens Creek	Planned	Reliability	
2011	US	SERC	SERC-E	AC	200-299	200-299	475	3	2013	VC Summer	Parr	0	OH	H	W	1272	ACSR	1		1	1	17539	South Carolina Electric & Gas Company		100	VC Summer-Parr	Retirement	Nuclear Integration	
2011	US	SERC	SERC-E	AC	200-299	200-299	475	3	2013	VC Summer	Parr (2)	0	OH	H	W	1272	ACSR	1		1	1	17539	South Carolina Electric & Gas Company		100	VC Summer-Parr	Retirement	Nuclear Integration	
2011	US	SERC	SERC-E	AC	200-299	200-299	352	11	2018	Canadys	St. George	0	OH	H	W	795	ACSR	1		1	1	17539	South Carolina Electric & Gas Company		100	Canadys-St. George	Retirement	Nuclear Integration	
2011	US	SERC	SERC-E	AC	200-299	200-299	950	11	2018	Canadys	St. George	8	OH	P	S	1272	ACSR	2		1	1	17539	South Carolina Electric & Gas Company		100	Canadys-St. George	Planned	Nuclear Integration	
2011	US	SERC	SERC-E	AC	200-299	200-299	950	12	2018	St. George	Summerville	0	OH	P	S	1272	ACSR	2		1	1	17539	South Carolina Electric & Gas Company		100	St. George-Summerville	Upgrade	Nuclear Integration	
2011	US	SERC	SERC-E	AC	100-120	100-120	474	12	2018	Saluda Hydro	Ga Pac	0	OH	P	S	1272	ACSR	1		2	2	17539	South Carolina Electric & Gas Company		100	Saluda Hydro-Ga Pac	Upgrade	Nuclear Integration	
2011	US	SERC	SERC-E	AC	100-120	100-120	187	4	2015	Lyles	Denny Terrace	0	OH	T	S	795	ACSR	1		2	2	17539	South Carolina Electric & Gas Company		100	Lyles-Denny Terrace	Retirement	Nuclear Integration	
2011	US	SERC	SERC-E	AC	200-299	200-299	510	4	2015	Lyles	Denny Terrace	0	OH	T	S	1272	ACSR	1		2	2	17539	South Carolina Electric & Gas Company		100	Lyles-Denny Terrace	Retirement	Nuclear Integration	
2011	US	SERC	SERC-E	AC	100-120	200-299	377	4	2015	Lyles	Denny Terrace	3	OH	P	S	1272	ACSR	1		2	2	17539	South Carolina Electric & Gas Company		100	Lyles-Denny Terrace	Planned	Nuclear Integration	
2011	US	SERC	SERC-E	AC	100-120	100-120	237	5	2015	Lyles	Williams Street	0	OH	P	S	1272	ACSR	1		1	1	17539	South Carolina Electric & Gas Company		100	Lyles-Williams Street	Upgrade	Reliability	

Table 6. Proposed high-voltage transmission line additions filed covering calendar Year 2011, by North American Electric Reliability Corporation, 2012 through 2021 (cont.)

	Geographic Area			Voltage		Capacity		In-Service		Electrical Connection		Locations		Line Information				Conductor Characteristics		Circuits		Company Information				Project Information			
Data Year	Country	NERC Region	NERC Sub-region	Type	Operating (kV)	Design (kV)	Rating (MVA)	Month	Year	From Terminal	To Terminal	Length (Miles)	Type	Pole Type	Pole Material	Size (MCM)	Material	Bundling Arrange-ment	Present	Ultimate	Company Code	Company Name	Organizational Type	Ownership (Percent)	Project Name	Level of Certainty	Primary Driver 1	Primary Driver 2	
2011	US	SERC	SERC-E	AC	100-120	100-120	472	12	2014	Killian	Blythewood	7	OH	P	S	1272	ACSR	2		1	2	17539	South Carolina Electric & Gas Company		100	Killian-Blythewood	Planned	Reliability	
2011	US	SERC	SERC-E	AC	100-120	100-120	236	4	2015	Lake Murray	Saluda Hydro	0	OH	P	S	1272	ACSR	1		1	1	17539	South Carolina Electric & Gas Company		100	Lake Murray-Saluda Hydro	Upgrade	Nuclear Integration	
2011	US	SERC	SERC-E	AC	100-120	100-120	236	4	2015	Lake Murray	McMeekin	0	OH	P	S	1272	ACSR	1		1	1	17539	South Carolina Electric & Gas Company		100	Lake Murray-McMeekin	Upgrade	Nuclear Integration	
2011	US	SERC	SERC-E	AC	200-299	200-299	956	5	2014	Pomaria	V C Summer (2)	8	OH	O	U	1272	ACSR	2		1	1	17543	South Carolina Public Service Authority		100	Pomaria-V C Summer	Planned	Nuclear Integration	Reliability
2011	US	SERC	SERC-E	AC	200-299	200-299	956	12	2013	V C Summer	Winnsboro	14	OH	O	U	1272	ACSR	2		1	1	17543	South Carolina Public Service Authority		100	V C Summer-Winnsboro	Planned	Nuclear Integration	Reliability
2011	US	SERC	SERC-E	AC	200-299	200-299	956	8	2014	Winnsboro	Richburg	27	OH	O	U	1272	ACSR	2		1	1	17543	South Carolina Public Service Authority		100	Winnsboro-Richburg	Planned	Nuclear Integration	Reliability
2011	US	SERC	SERC-E	AC	200-299	200-299	956	10	2015	Richburg	Flat Creek	32	OH	O	U	1272	ACSR	2		1	1	17543	South Carolina Public Service Authority		100	Richburg-Flat Creek	Planned	Nuclear Integration	Reliability
2011	US	SERC	SERC-E	AC	200-299	200-299	956	6	2016	Pomaria	Sandy Run	55	OH	O	U	1272	ACSR	2		1	1	17543	South Carolina Public Service Authority		100	Pomaria-Sandy Run	Conceptual	Nuclear Integration	Reliability
2011	US	SERC	SERC-E	AC	200-299	200-299	956	5	2017	Sandy Run	Orangeburg	34	OH	O	U	1272	ACSR	2		1	1	17543	South Carolina Public Service Authority		100	Sandy Run-Orangeburg	Conceptual	Nuclear Integration	Reliability
2011	US	SERC	SERC-E	AC	200-299	200-299	956	5	2018	Orangeburg	St. George	26	OH	O	U	1272	ACSR	2		1	1	17543	South Carolina Public Service Authority		100	Orangeburg-St. George	Conceptual	Nuclear Integration	Reliability
2011	US	SERC	SERC-E	AC	200-299	200-299	956	6	2019	St. George	Varnville	38	OH	O	U	1272	ACSR	2		1	1	17543	South Carolina Public Service Authority		100	St. George-Varnville	Conceptual	Nuclear Integration	Reliability
2011	US	SERC	SERC-E	AC	100-120	100-120	797	6	2016	Bucksville	Garden City	15	OH	P	W	1272	ACSR	1		1	1	17543	South Carolina Public Service Authority		100	Bucksville-Garden City	Planned	Reliability	
2011	US	SERC	SERC-E	AC	100-120	100-120	156	12	2019	Proposed Watauga 230kV Sub	Boone Step-Down Sub (None)	2	OH	P	S	795	ACSR	2		2	4	1889	Blue Ridge Electric Membership Corporation		100	Watauga 230kV Sub-Boone Step-Down Sub	Planned	Reliability	
2011	US	SERC	SERC-E	AC	100-120	100-120	92	12	2014	Boone Step-Down Sub	Blowing Rock Sub (None)	6	OH	P	S	336	ACSR	1		1	1	1889	Blue Ridge Electric Membership Corporation		100	Boone Step-Down Sub-Blowing Rock Sub	Under Construction	Reliability	
2011	US	SERC	SERC-E	AC	100-120	100-120	102	12	2014	Blowing Rock Sub	New Blowing Rock Sub (None)	1	UG	U	U	500	CU	1		0	0	1889	Blue Ridge Electric Membership Corporation		100	Blowing Rock Sub-New Blowing Rock Sub	Planned	Reliability	
2011	US	SERC	SERC-E	AC	200-299	200-299	402	12	2020	Horse Gap Sub	New Watauga 230kV Sub (None)	17	OH	P	S	954	ACSR	1		1	1	1889	Blue Ridge Electric Membership Corporation		100	Horse Gap Sub-New Watauga 230kV Sub	Planned	Reliability	
2011	US	SERC	SERC-E	AC	100-120	100-120	156	12	2016	Hudson Sub	Oak Hill Sub (None)	4	OH	P	S	795	ACSR	1		1	1	1889	Blue Ridge Electric Membership Corporation		100	Hudson Sub-Oak Hill Sub	Planned	Reliability	
2011	US	SERC	SERC-E	AC	100-120	100-120	92	12	2015	Beaver Creek Sub	United Chemi-Con Sub (None)	8	OH	P	S	336	ACSR	1		1	1	1889	Blue Ridge Electric Membership Corporation		100	Beaver Creek Sub-United Chemi-Con Sub	Planned	Reliability	
2011	US	SERC	SERC-E	AC	100-120	100-120	92	12	2016	Boone Step-Down Sub	Boone Step-Down Sub (None)	9	OH	P	S	336	ACSR	1		1	1	1889	Blue Ridge Electric Membership Corporation		100	Boone Step-Down Sub-Boone Step-Down Sub	Planned	Reliability	
2011	US	SERC	SERC-E	AC	100-120	100-120	425	6	2015	Kenilworth Ret	N Charlotte	0	OH	O	U	477	ACSR	1		2	2	5416	Duke Energy Carolinas		100	Elizabeth 100 kV Lines	Upgrade	Reliability	
2011	US	SERC	SERC-E	AC	200-299	200-299	950	4	2015	Lyles	Denny Terrace	3	OH	P	S	1272	ACSR	2		2	2	17539	South Carolina Electric & Gas Company		100	Lyles-Denny Terrace	Planned	Nuclear Integration	
2011	US	SERC	SERC-E	AC	100-120	100-120	237	5	2012	Charlotte Street	Hagood Junction	5	OH	P	S	1272	ACSR	1		2	2	17539	South Carolina Electric & Gas Company		100	Charlotte Street-Hagood Junction	Planned	Reliability	

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	Geographic Area			Voltage		Capacity		In-Service		Electrical Connection		Locations		Line Information				Conductor Characteristics		Circuits		Company Information				Project Information			
Data Year	Country	NERC Region	NERC Sub-region	Type	Operating (kV)	Design (kV)	Rating (MVA)	Month	Year	From Terminal	To Terminal	Length (Miles)	Type	Pole Type	Pole Material	Size (MCM)	Material	Bundling Arrangement	Present	Ultimate	Company Code	Company Name	Organizational Type	Ownership (Percent)	Project Name	Level of Certainty	Primary Driver 1	Primary Driver 2	
2011	US	SERC	SERC-E	AC	100-120	100-120	176	5	2012	Hagood	Accabee	1	OH	P	W	795	ACSR	1		1	1	17539	South Carolina Electric & Gas Company		100	Hagood-Accabee	Planned	Reliability	
2011	US	SERC	SERC-E	AC	100-120	100-120	176	5	2012	Charlotte Street	Hagood Junction	0	OH	P	W	795	ACSR	1		1	1	17539	South Carolina Electric & Gas Company		100	Charlotte Street-Hagood Junction	Retirement	Reliability	
2011	US	SERC	SERC-E	AC	100-120	100-120	237	5	2017	Hagood	Faber Place (2)	6	OH	P	S	1272	ACSR	1		1	1	17539	South Carolina Electric & Gas Company		100	Hagood-Faber Place	Planned	Reliability	
2011	US	SERC	SERC-E	AC	200-299	200-299	956	6	2015	Winyah	Bucksville	32	OH	O	U	1272	ACSR	2		1	1	17543	South Carolina Public Service Authority		100	Winyah-Bucksville	Conceptual	Reliability	
2011	US	SERC	SERC-E	AC	200-299	200-299	956	6	2018	Cross	Wassamassaw (2)	18	OH	O	U	1272	ACSR	2		1	1	17543	South Carolina Public Service Authority		100	Cross-Wassamassaw	Conceptual	Reliability	
2011	US	SERC	SERC-E	AC	200-299	200-299	956	6	2018	Bucksville	Conway	7	OH	O	U	1272	ACSR	2		1	1	17543	South Carolina Public Service Authority		100	Bucksville-Conway	Conceptual	Reliability	Economics or Congestion
2011	US	SERC	SERC-E	AC	100-120	100-120	239	6	2019	Red Bluff	Nixons Crossroads (2)	14	OH	O	U	1272	ACSR	1		1	1	17543	South Carolina Public Service Authority		100	Red Bluff-Nixons Crossroads	Conceptual	Reliability	
2011	US	SERC	SERC-E	AC	200-299	200-299	956	12	2019	Wassamassaw	St. George	22	OH	O	U	1272	ACSR	2		1	1	17543	South Carolina Public Service Authority		100	Wassamassaw-St. George	Conceptual	Reliability	
2011	US	SERC	SERC-E	AC	100-120	100-120	227	5	2014	Aiken Hampton	Aiken #3	0	OH	P	W	1272	ACSR	1		1	1	17539	South Carolina Electric & Gas Company		100	Aiken Hampton-Aiken #3	Upgrade	Reliability	
2011	US	SERC	SERC-E	AC	100-120	100-120	237	5	2015	Aiken Hampton	Aiken Transmission	0	OH	P	W	1272	ACSR	1		1	1	17539	South Carolina Electric & Gas Company		100	Aiken Hampton-Aiken Transmission	Upgrade	Reliability	
2011	US	SERC	SERC-E	AC	100-120	100-120	237	5	2014	Mt Pleasant	Bayview	0	OH	P	W	1272	ACSR	1		1	1	17539	South Carolina Electric & Gas Company		100	Mt Pleasant-Bayview	Upgrade	Reliability	
2011	US	SERC	SERC-E	AC	100-120	100-120	352	5	2015	Yemassee	Burton (2)	0	OH	P	S	795	ACSR	2		2	2	17539	South Carolina Electric & Gas Company		100	Yemassee-Burton	Upgrade	Reliability	
2011	US	SERC	SERC-E	AC	100-120	100-120	237	5	2015	St Andrews	Queensboro	0	OH	P	W	1272	ACSR	1		1	1	17539	South Carolina Electric & Gas Company		100	St Andrews-Queensboro	Upgrade	Reliability	
2011	US	SERC	SERC-E	AC	100-120	100-120	182	3	2013	Cliffside Steam Station	1st Tap	0	OH	O	U	954	ACSR	1		2	2	5416	Duke Energy Carolinas		100	Cherokee 100 kV Lines	Upgrade	Reliability	
2011	US	SERC	SERC-E	AC	100-120	100-120	237	12	2017	Faber Place	Hagood Junction	0	OH	P	S	1272	ACSR	1		1	1	17539	South Carolina Electric & Gas Company		100	Faber Place - Hagood Junction 115kV Upgrade	Upgrade	Reliability	Other
2011	US	SERC	SERC-E	AC	100-120	100-120	237	12	2017	Faber Place	Hagood Junction	0	OH	P	S	1272	ACSR	1		1	1	17539	South Carolina Electric & Gas Company		100	Faber Place - Hagood Junction 115kV Upgrade	Upgrade	Reliability	Other
2011	US	SERC	SERC-E	AC	100-120	100-120	352	12	2014	Hagood	Bee Street	0	OH	P	S	795	ACSR	2		1	1	17539	South Carolina Electric & Gas Company		100	Hagood - Bee Street 115kV Upgrade	Upgrade	Reliability	Reliability
2011	US	SERC	SERC-E	AC	100-120	100-120	237	12	2014	Faber Place	Hagood	0	OH	P	S	1272	ACSR	1		1	1	17539	South Carolina Electric & Gas Company		100	Faber Place - Hagood 115kV Upgrade	Upgrade	Reliability	Reliability
2011	US	SERC	SERC-E	AC	100-120	100-120	237	12	2017	Faber Place	Hagood (2)	5	OH	P	S	1272	ACSR	1		1	1	17539	South Carolina Electric & Gas Company		100	Faber Place - Hagood 115kV #2	Planned	Reliability	Reliability
2011	US	SERC	SERC-E	AC	100-120	100-120	237	12	2012	Hagood Junction	Hagood	0.5	OH	P	S	1272	ACSR	1		1	1	17539	South Carolina Electric & Gas Company		100	Hagood Junction - Hagood 115kV	Planned	Reliability	Reliability
2011	US	SERC	SERC-E	AC	100-120	100-120	237	12	2013	Hamlin	Isle of Palms	8	SM	U	O	2500	CU	1		1	1	17539	South Carolina Electric & Gas Company		100	Hamlin - Isle of Palms 115kV Submarine Cable	Under Construction	Reliability	Reliability
2011	US	SERC	SERC-E	AC	100-120	100-120	237	4	2015	Lyles	Saluda River	0	OH	P	S	1272	ACSR	1		1	1	17539	South Carolina Electric & Gas Company		100	Lyles - Saluda River 115 kV	Upgrade	Reliability	Nuclear Integration

Table 6. Proposed high-voltage transmission line additions filed covering calendar Year 2011, by North American Electric Reliability Corporation, 2012 through 2021 (cont.)

	Geographic Area			Voltage		Capacity		In-Service		Electrical Connection		Locations		Line Information			Conductor Characteristics			Circuits		Company Information				Project Information			
Data Year	Country	NERC Region	NERC Sub-region	Type	Operating (kV)	Design (kV)	Rating (MVA)	Month	Year	From Terminal	To Terminal	Length (Miles)	Type	Pole Type	Pole Material	Size (MCM)	Material	Bundling Arrangement	Present	Ultimate	Company Code	Company Name	Organizational Type	Ownership (Percent)	Project Name	Level of Certainty	Primary Driver 1	Primary Driver 2	
2011	US	SERC	SERC-E	AC	100-120	100-120	237	5	2015	Lake Murray	Saluda River	0	OH	P	S	1272	ACSR	1		1	1	17539	South Carolina Electric & Gas Company		100	Lake Murray - Saluda River 115 kV Upgrade	Upgrade	Reliability	Nuclear Integration
2011	US	SERC	SERC-E	AC	200-299	200-299	1195	6	2018	Richmond Co. Plant	Ft. Bragg Woodruff St Substation	6	OH	O	S	1590	ACSR	2		1	1	3046	Progress Energy Carolinas Associated Electric Cooperative, Inc.		100	Raeform 230 kV Substation, Loop-in Richmond - Ft. Bragg Woodruff St 230 kV Line	Planned	Reliability	
2011	US	SERC	SERC-N	AC	151-199	151-199	286	6	2015	Apache Flats	Scruggs	2	OH	H	W	795	ACSR	1		2	2	924	Associated Electric Cooperative, Inc.		100	Apache Flats-Scruggs	Planned	Reliability	
2011	US	SERC	SERC-N	AC	151-199	151-199	286	6	2013	Rogersville	Holman	7	OH	P	S	795	ACSR	1		1	1	924	Associated Electric Cooperative, Inc.		100	Rogersville-Holman	Planned	Reliability	
2011	US	SERC	SERC-N	AC	151-199	151-199	203	6	2013	Willow Springs	Summersville East	0	OH	H	W	795	ACSR	1		1	1	924	Associated Electric Cooperative, Inc.		100	Willow Springs-Summersville East	Planned	Reliability	
2011	US	SERC	SERC-N	AC	151-199	151-199	203	6	2013	Summersville East	Sweetwater	0	OH	H	W	795	ACSR	1		1	1	924	Associated Electric Cooperative, Inc.		100	Summersville East-Sweetwater	Planned	Reliability	
2011	US	SERC	SERC-N	AC	151-199	151-199	286	9	2012	Mansfield	Mountain Grove	22	OH	P	S	795	ACSR	1		2	2	924	Associated Electric Cooperative, Inc.		100	Mansfield-Mountain Grove	Under Construction	Reliability	
2011	US	SERC	SERC-N	AC	151-199	151-199	286	9	2012	Cabool	Mountain Grove	10	OH	H	W	795	ACSR	1		1	1	924	Associated Electric Cooperative, Inc.		100	Cabool-Mountain Grove	Under Construction	Reliability	
2011	US	SERC	SERC-N	AC	151-199	151-199	286	9	2012	Cabool	Willow Springs	14	OH	H	W	795	ACSR	1		1	1	924	Associated Electric Cooperative, Inc.		100	Cabool-Willow Springs	Under Construction	Reliability	
2011	US	SERC	SERC-N	AC	300-399	300-399	870	6	2013	Blackberry	Neosho	0	OH	H	W	795	ACSR	2		1	1	924	Associated Electric Cooperative, Inc.		100	Blackberry-Neosho	Under Construction	Reliability	
2011	US	SERC	SERC-N	AC	300-399	300-399	870	6	2013	Blackberry	Morgan	0	OH	H	W	795	ACSR	2		1	1	924	Associated Electric Cooperative, Inc.		100	Blackberry-Morgan	Under Construction	Reliability	
2011	US	SERC	SERC-N	AC	300-399	300-399	1369	6	2013	Blackberry	Sportsman Acres	93	OH	H	W	954	ACSR	2		1	1	924	Associated Electric Cooperative, Inc.		100	Blackberry-Sportsman Acres	Under Construction	Reliability	
2011	US	SERC	SERC-N	AC	151-199	151-199	204	12	2012	Cedar Crest	Locust Grove	0	OH	H	W	795	ACSR	1		1	1	924	Associated Electric Cooperative, Inc.	0		Cedar Crest-Locust Grove	Planned	Reliability	
2011	US	SERC	SERC-N	AC	151-199	151-199	204	12	2012	Cedar Crest	Talequah	0	OH	H	W	795	ACSR	1		1	1	924	Associated Electric Cooperative, Inc.	0		Cedar Crest-Talequah	Planned	Reliability	
2011	US	SERC	SERC-N	AC	151-199	151-199	204	12	2012	Cedar Crest	Lowery	12	OH	H	W	795	ACSR	1		1	1	924	Associated Electric Cooperative, Inc.	100		Cedar Crest-Lowery	Planned	Reliability	
2011	US	SERC	SERC-N	AC	151-199	151-199	286	12	2012	Cedar Crest	Lowery	12	OH	H	W	795	ACSR	1		1	1	924	Associated Electric Cooperative, Inc.	100		Cedar Crest-Lowery	Planned	Reliability	
2011	US	SERC	SERC-N	AC	151-199	151-199	286	12	2012	Cedar Crest	Peggs	4	OH	H	W	795	ACSR	1		1	1	924	Associated Electric Cooperative, Inc.	100		Cedar Crest-Peggs	Planned	Reliability	
2011	US	SERC	SERC-N	AC	121-150	121-150	174	6	2013	Bristow	Okemah	0	OH	H	W	795	ACSR	1		1	1	924	Associated Electric Cooperative, Inc.	100		Bristow-Okemah	Under Construction	Reliability	
2011	US	SERC	SERC-N	AC	121-150	121-150	174	6	2013	Pharoah	Okemah	0	OH	H	W	795	ACSR	1		1	1	924	Associated Electric Cooperative, Inc.	100		Pharoah-Okemah	Under Construction	Reliability	
2011	US	SERC	SERC-N	AC	121-150	121-150	122	12	2014	Gypsy	Stroud	21.1	OH	H	W	795	ACSR	1		1	1	924	Associated Electric Cooperative, Inc.	100		Gypsy-Stroud	Planned	Reliability	
2011	US	SERC	SERC-N	AC	121-150	121-150	245	9	2014	Stroud	Warwick	12	OH	H	W	795	ACSR	1		1	1	924	Associated Electric Cooperative, Inc.	100		Stroud-Warwick	Planned	Reliability	
2011	US	SERC	SERC-N	AC	151-199	151-199	286	6	2015	Wheaton	Cassville	15	OH	H	W	795	ACSR	1		1	1	924	Associated Electric Cooperative, Inc.	100		Wheaton-Cassville	Planned	Reliability	
2011	US	SERC	SERC-N	AC	151-199	151-199	286	6	2018	Maries	Dixon	5	OH	H	W	795	ACSR	1		1	1	924	Associated Electric Cooperative, Inc.	100		Maries-Dixon	Planned	Reliability	
2011	US	SERC	SERC-N	AC	151-199	151-199	372	6	2014	Enon	Lake St. Louis	5	OH	H	W	1192	ACSR	1		1	1	924	Associated Electric Cooperative, Inc.	100		Enon-Lake St. Louis	Planned	Reliability	



Table 6. Proposed high-voltage transmission line additions filed covering calendar Year 2011, by North American Electric Reliability Corporation, 2012 through 2021 (cont.)

	Geographic Area			Voltage		Capacity		In-Service		Electrical Connection		Locations		Line Information				Conductor Characteristics		Circuits		Company Information				Project Information			
Data Year	Country	NERC Region	NERC Sub-region	Type	Operating (kV)	Design (kV)	Rating (MVA)	Month	Year	From Terminal	To Terminal	Length (Miles)	Type	Pole Type	Pole Material	Size (MCM)	Material	Bundling Arrange-ment	Present	Ultimate	Company Code	Company Name	Organizational Type	Ownership (Percent)	Project Name	Level of Certainty	Primary Driver 1	Primary Driver 2	
2011	US	SERC	SERC-N	AC	151-199	151-199	372	6	2014	Lake St Louis	Dardenne	3	OH	P	S	1192	ACSR	1		1	1	924	Associated Electric Cooperative, Inc.		100	Lake St Louis-Dardenne	Planned	Reliability	
2011	US	SERC	SERC-N	AC	100-120	151-199	122	12	2012	Rolla (South)	Yancy Mills	7	OH	H	W	795	ACSR	1		1	1	924	Associated Electric Cooperative, Inc.		100	Rolla (South)-Yancy Mills	Planned	Reliability	
2011	US	SERC	SERC-N	AC	121-150	121-150	245	12	2013	Luther	Warwick Tap	7.38	OH	H	W	795	ACSR	1		1	1	924	Associated Electric Cooperative, Inc.		100	Luther-Warwick Tap	Planned	Reliability	
2011	US	SERC	SERC-N	AC	400-599	400-599	2598	10	2013	Davidson	Pin Hook	0	OH	T	S	954	ACSR	3		1	1	18642	Tennessee Valley Authority		100	Davidson-Pin Hook	Upgrade	Reliability	
2011	US	SERC	SERC-N	AC	400-599	400-599	2598	12	2012	Shelby	Lagoon Creek	0	OH	T	S	954	ACSR	3		1	1	18642	Tennessee Valley Authority		100	Shelby-Lagoon Creek	Upgrade	Reliability	
2011	US	SERC	SERC-N	AC	400-599	400-599	2598	10	2013	Wilson	Pin Hook	0	OH	T	S	954	ACSR	3		1	1	18642	Tennessee Valley Authority		100	Wilson-Pin Hook	Upgrade	Reliability	
2011	US	SERC	SERC-N	AC	151-199	151-199	299	6	2012	Widows Creek	Oglethorpe (2)	0	OH	T	S	954	ACSR	1		1	1	18642	Tennessee Valley Authority		100	Widows Creek-Oglethorpe	Upgrade	Reliability	
2011	US	SERC	SERC-N	AC	151-199	151-199	299	6	2012	Widows Creek	Oglethorpe (3)	0	OH	T	S	954	ACSR	1		1	1	18642	Tennessee Valley Authority		100	Widows Creek-Oglethorpe	Upgrade	Reliability	
2011	US	SERC	SERC-N	AC	151-199	151-199	450	5	2015	Volunteer	East Knox	13	OH	O	U	954	ACSR	1		1	1	18642	Tennessee Valley Authority		100	Volunteer-East Knox	Under Construction	Reliability	
2011	US	SERC	SERC-N	AC	151-199	151-199	410	6	2012	Gallatin	Angeltown	19	OH	O	U	1590	ACSR	1		1	1	18642	Tennessee Valley Authority		100	Gallatin-Angeltown	Under Construction	Reliability	
2011	US	SERC	SERC-N	AC	400-599	400-599	2598	12	2015	Choctaw	French Camp	0	OH	T	S	954	ACSR	3		1	1	18642	Tennessee Valley Authority		100	Choctaw-French Camp	Upgrade	Reliability	
2011	US	SERC	SERC-N	AC	151-199	151-199	299	6	2012	Unionville	Rally Hill	18	OH	O	U	954	ACSR	1		1	1	18642	Tennessee Valley Authority		100	Unionville-Rally Hill	Under Construction	Reliability	
2011	US	SERC	SERC-N	AC	400-599	400-599	2598	6	2012	West Point	Clay	0	OH	T	S	954	ACSR	3		1	1	18642	Tennessee Valley Authority		100	West Point-Clay	Under Construction	Reliability	
2011	US	SERC	SERC-N	AC	151-199	151-199	371	10	2015	MEC	Nucor	2	OH	O	U	1351	ACSR	1		1	1	18642	Tennessee Valley Authority		100	MEC-Nucor	Planned	Other	
2011	US	SERC	SERC-N	AC	151-199	151-199	292	12	2019	Wolf Creek	Clinton County	9	OH	O	U	954	ACSR	1		1	1	5580	East Kentucky Power Cooperative		100	Wolf Creek-Clinton County 161 kV Line	Conceptual	Reliability	
2011	US	SERC	SERC-N	AC	151-199	151-199	346	5	2012	Grahamville	Joppa DOE C33 (2)	2	OH	P	S	954	ACSR	1		1	2	10171	LG&E and KU Services Company as agent for Louisville Gas and Electric Company and Kentucky Utilities Company		100	Grahamville-Joppa DOE C33	Planned	Reliability	
2011	US	SERC	SERC-N	AC	121-150	121-150	296	11	2014	Hardin County	Elizabethtown (2)	1	OH	T	S	954	ACSR	2		2	2	10171	LG&E and KU Services Company as agent for Louisville Gas and Electric Company and Kentucky Utilities Company		100	Hardin County-Elizabethtown	Planned	Reliability	
2011	US	SERC	SERC-N	AC	300-399	300-399	1195	12	2012	Paddys West	Speed	11	OH	T	S	954	ACSR	2		2	2	10171	LG&E and KU Services Company as agent for Louisville Gas and Electric Company and Kentucky Utilities Company	33		Paddys West-Speed 345kV	Conceptual	Reliability	
2011	US	SERC	SERC-N	AC	151-199	151-199	889	11	2017	Grahamville	Wickliffe (2)	20	OH	T	S	556	ACSR	1		2	2	10171	LG&E and KU Services Company as agent for Louisville Gas and Electric Company and Kentucky Utilities Company		100	2nd Grahamville-Wickliffe kV	Conceptual	Reliability	
2011	US	SERC	SERC-N	AC	400-599	400-599	1732	3	2012	Shelby	Cordova (2)	23	OH	T	S	954	ACSR	3		1	1	18642	Tennessee Valley Authority		100	Shelby-Cordova	Under Construction	Reliability	

Table 6. Proposed high-voltage transmission line additions filed covering calendar Year 2011, by North American Electric Reliability Corporation, 2012 through 2021 (cont.)

	Geographic Area			Voltage		Capacity		In-Service		Electrical Connection		Locations		Line Information				Conductor Characteristics			Circuits			Company Information				Project Information			
Data Year	Country	NERC Region	NERC Sub-region	Type	Operating (kV)	Design (kV)	Rating (MVA)	Month	Year	From Terminal	To Terminal	Length (Miles)	Type	Pole Type	Pole Material	Size (MCM)	Material	Bundling Arrange-ment	Present	Ultimate	Company Code	Company Name	Organizational Type	Ownership (Percent)	Project Name	Level of Certainty	Primary Driver 1	Primary Driver 2			
2011	US	SERC	SERC-N	AC	151-199	151-199	421	1	2013	Sub. 79	Sub. 86	11 OH	P	S	1590	ACSR	1		1 2	18642	Tennessee Valley Authority		100	Sub. 79-Sub. 86	Under Construction	Reliability	Other				
2011	US	SERC	SERC-N	AC	151-199	151-199	532	6	2022	Airport	South	0 OH	P	S	795	OT	1		1 1	18642	Tennessee Valley Authority		5	Airport-South	Upgrade	Reliability					
2011	US	SERC	SERC-N	AC	151-199	151-199	532	6	2022	Airport	Murfreesboro Road	0 OH	P	S	795	OT	1		1 1	18642	Tennessee Valley Authority		5	Murfreesboro Road	Upgrade	Reliability					
2011	US	SERC	SERC-N	AC	151-199	151-199	532	6	2016	Battlefield	Craighead	1 OH	P	S	795	OT	1		1 1	18642	Tennessee Valley Authority		100	Battlefield-Craighead	Planned	Reliability					
2011	US	SERC	SERC-N	AC	151-199	151-199	532	6	2016	Battlefield	Sharondale	3 OH	P	S	795	OT	1		1 1	18642	Tennessee Valley Authority		100	Battlefield-Sharondale	Planned	Reliability					
2011	US	SERC	SERC-N	AC	151-199	151-199	237	6	2012	Elza	Huntsville	0 OH	T	S	795	ACSR	1		1 1	18642	Tennessee Valley Authority		100	Elza-Huntsville	Upgrade	Reliability					
2011	US	SERC	SERC-N	AC	151-199	151-199	334	6	2012	Wheeler	Mt. Pleasant	0 OH	T	S	636	OT	1		1 1	18642	Tennessee Valley Authority		100	Wheeler-Mt. Pleasant	Upgrade	Reliability					
2011	US	SERC	SERC-N	AC	151-199	151-199	367	6	2012	Farley	Guntersville	17 OH	T	S	795	ACSR	1		1 1	18642	Tennessee Valley Authority		100	Rebuild / Reconduct Line	Under Construction	Reliability					
2011	US	SERC	SERC-N	AC	151-199	151-199	697	5	2013	Marshall	Calvert	0 OH	T	S	1590	ACSR	1		1 1	18642	Tennessee Valley Authority		100	Marshall-Calvert	Upgrade	Reliability					
2011	US	SERC	SERC-N	AC	151-199	151-199	697	5	2013	Marshall	Calvert (2)	0 OH	T	S	1590	ACSR	1		1 1	18642	Tennessee Valley Authority		100	Marshall-Calvert	Upgrade	Reliability					
2011	US	SERC	SERC-N	AC	121-150	151-199	410	3	2012	Madison	Farley	0 OH	H	B	2034	ACSR	1		1 1	18642	Tennessee Valley Authority		100	Madison-Farley	Upgrade	Reliability					
2011	US	SERC	SERC-N	AC	151-199	151-199	423	3	2013	ServerCorr	Clayton Village	14 OH	T	S	954	ACSR	1		1 1	18642	Tennessee Valley Authority		100	ServerCorr-Clayton Village	Under Construction	Reliability					
2011	US	SERC	SERC-N	AC	151-199	151-199	318	6	2013	East Point	Arab	0 OH	H	S	636	ACSR	1		1 1	18642	Tennessee Valley Authority		100	East Point-Arab	Upgrade	Reliability					
2011	US	SERC	SERC-N	AC	151-199	151-199	208	6	2013	Johnsonville FP	Monsanto	0 OH	T	B	795	ACSR	1		1 1	18642	Tennessee Valley Authority		100	Johnsonville FP-Monsanto	Upgrade	Fossil-Fired Integration	Reliability				
2011	US	SERC	SERC-N	AC	151-199	151-199	237	6	2014	Marshall	C33	0 OH	T	S	636	ACSR	1		1 1	18642	Tennessee Valley Authority		100	Marshall-C33	Upgrade	Fossil-Fired Integration	Reliability				
2011	US	SERC	SERC-N	AC	151-199	151-199	232	6	2014	Ardmore	Fayetteville	0 OH	P	B	636	ACSR	1		1 1	18642	Tennessee Valley Authority		100	Ardmore-Park City	Upgrade	Fossil-Fired Integration	Reliability				
2011	US	SERC	SERC-N	AC	151-199	151-199	334	6	2013	Decatur	Guntersville	0 OH	H	S	636	ACSR	1		1 1	18642	Tennessee Valley Authority		100	Decatur-Priceville	Upgrade	Fossil-Fired Integration	Reliability				
2011	US	SERC	SERC-N	AC	151-199	151-199	334	6	2012	Guntersville	Goose Pond	0 OH	T	S	795	ACSR	1		1 1	18642	Tennessee Valley Authority		100	Guntersville-Goose Pond	Upgrade	Fossil-Fired Integration	Reliability				
2011	US	SERC	SERC-N	AC	151-199	151-199	237	12	2012	Calvert	South Calvert (2)	0 OH	P	B	636	ACSR	1		1 1	18642	Tennessee Valley Authority		100	Calvert-South Calvert	Upgrade	Reliability					
2011	US	SERC	SERC-N	AC	151-199	151-199	307	6	2013	Marshall	Benton	0 OH	P	B	1590	ACSR	1		1 1	18642	Tennessee Valley Authority		100	Marshall-Benton	Upgrade	Reliability					
2011	US	SERC	SERC-N	AC	151-199	151-199	410	6	2014	Marshall	Mayfield	0 OH	T	S	795	ACSR	2		1 1	18642	Tennessee Valley Authority		100	Marshall-Mayfield	Upgrade	Reliability					
2011	US	SERC	SERC-N	AC	121-150	121-150	267	12	2019	Fayette	South Jessamine	7.3 OH	P	S	795	ACSR	1		2 2	5580	East Kentucky Power Cooperative		100	Fayette-South Jessamine 138 kV Line	Conceptual	Reliability					
2011	US	SERC	SERC-N	AC	121-150	121-150	267	12	2020	West Berea	Three Links Junction	7.5 OH	O	S	795	ACSR	1		1 1	5580	East Kentucky Power Cooperative		100	Three Links Junction 138 kV Line	Planned	Reliability					
2011	US	SERC	SERC-N	AC	151-199	151-199	371	3	2013	Starkville	Clayton Village	4.6 OH	O	U	1351	ACSR	1		1 1	18642	Tennessee Valley Authority		100	Starkville-Clayton Village	Planned	Reliability					
2011	US	SERC	SERC-N	AC	121-150	121-150	210	3	2013	Matanzas	Ohio Co	0 OH	T	S	556	ACSR	1		1 1	10171	LG&E and KU Services Company as agent for Louisville Gas and Electric Company and Kentucky Utilities Company		100	Matanzas	Planned	Reliability	Other				
2011	US	SERC	SERC-N	AC	121-150	121-150	210	3	2013	Matanzas	Green River	0 OH	T	S	556	ACSR	1		1 1	10171	LG&E and KU Services Company as agent for Louisville Gas and Electric Company and Kentucky Utilities Company		100	Matanzas	Planned	Reliability	Other				

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	Geographic Area			Voltage		Capacity		In-Service		Electrical Connection		Locations		Line Information				Conductor Characteristics			Circuits		Company Information				Project Information			
Data Year	Country	NERC Region	NERC Sub-region	Type	Operating (kV)	Design (kV)	Rating (MVA)	Month	Year	From Terminal	To Terminal	Length (Miles)	Type	Pole Type	Pole Material	Size (MCM)	Material	Bundling Arrangement	Present	Ultimate	Company Code	Company Name	Organizational Type	Ownership (Percent)	Project Name	Level of Certainty	Primary Driver 1	Primary Driver 2		
2011	US	SERC	SERC-N	AC	300-399	300-399	1146	12	2013	New Albany	Paddys West	0.25	OH	T	S	1024.5	AL	2		1	1	10171	LG&E and KU Services Company as agent for Louisville Gas and Electric Company and Kentucky Utilities Company		100	New Albany 345kV	Planned	Reliability		
2011	US	SERC	SERC-N	AC	300-399	300-399	1146	12	2013	New Albany	Northside	0.25	OH	T	S	1024.5	AL	2		1	1	10171	LG&E and KU Services Company as agent for Louisville Gas and Electric Company and Kentucky Utilities Company		100	New Albany 345kV	Planned	Reliability		
2011	US	SERC	SERC-N	AC	121-150	121-150	166	5	2015	Midway	Adams	0	OH	H	W	556	ACSR	1		1	2	10171	LG&E and KU Services Company as agent for Louisville Gas and Electric Company and Kentucky Utilities Company		100	Midway 138kV	Conceptual	Reliability		
2011	US	SERC	SERC-N	AC	121-150	121-150	166	5	2015	Midway	Tyrone	0	OH	H	W	556	ACSR	1		1	1	10171	LG&E and KU Services Company as agent for Louisville Gas and Electric Company and Kentucky Utilities Company		100	Midway 138kV	Conceptual	Reliability		
2011	US	SERC	SERC-N	AC	151-199	151-199	122	6	2012	Baldor	Westville	4	OH	P	W	795	ACSR	1		1	1	924	Associated Electric Cooperative, Inc.		100	Baldor-Westville	Planned	Reliability		
2011	US	SERC	SERC-N	AC	151-199	151-199	286	12	2012	Holman	Crossway	9	OH	H	W	795	ACSR	1		1	1	924	Associated Electric Cooperative, Inc.		100	Holman-Crossway	Planned	Reliability		
2011	US	SERC	SERC-N	AC	300-399	300-399	1369	6	2016	Franks	Barnett	50	OH	H	W	954	ACSR	2		1	1	924	Associated Electric Cooperative, Inc.		100	Franks-Barnett	Planned	Reliability		
2011	US	SERC	SERC-N	AC	151-199	151-199	286	6	2014	Turkey Creek	Warsaw East	7	OH	H	W	795	ACSR	1		1	1	924	Associated Electric Cooperative, Inc.		100	Turkey Creek-Warsaw East	Planned	Reliability		
2011	US	SERC	SERC-N	AC	151-199	151-199	122	6	2013	March	Crossway	12	OH	H	W	795	ACSR	1		1	1	924	Associated Electric Cooperative, Inc.		100	March-Crossway	Planned	Reliability		
2011	US	SERC	SERC-N	AC	300-399	300-399	870	6	2013	St. Francis	St. Francis Tap	4.3	OH	H	W	795	ACSR	2		1	1	924	Associated Electric Cooperative, Inc.		100	St. Francis-St. Francis Tap	Planned	Reliability		
2011	US	SERC	SERC-N	AC	151-199	151-199	122	6	2014	Fredericktown	Lutesville	16.2	OH	H	W	795	ACSR	1		1	1	924	Associated Electric Cooperative, Inc.		100	Fredericktown-Lutesville	Planned	Reliability		
2011	US	SERC	SERC-N	AC	151-199	151-199	319	6	2012	Jasper	Lamar	13	OH	H	W	954	ACSR	1		2	2	924	Associated Electric Cooperative, Inc.		100	Jasper-Lamar	Planned	Reliability		
2011	US	SERC	SERC-N	AC	151-199	151-199	286	6	2015	Kingdom City	Mexico North	20	OH	H	W	795	ACSR	1		2	2	924	Associated Electric Cooperative, Inc.		100	Kingdom City-Mexico North	Planned	Reliability		
2011	US	SERC	SERC-N	AC	300-399	300-399	1382	6	2016	Enon	Enon Tap	0.32	OH	H	W	954	ACSR	2		1	1	924	Associated Electric Cooperative, Inc.		100	Enon-Enon Tap	Planned	Reliability		
2011	US	SERC	SERC-N	AC	151-199	151-199	286	6	2014	Maries	Rolla North Wye	20.76	OH	H	W	795	ACSR	1		2	2	924	Associated Electric Cooperative, Inc.		100	Maries-Rolla North Wye	Planned	Reliability		
2011	US	SERC	SERC-N	AC	121-150	121-150	245	6	2015	Oak Ridge	Eufala	10	OH	H	W	795	ACSR	1		1	1	924	Associated Electric Cooperative, Inc.		100	Oak Ridge-Eufala	Conceptual	Reliability		
2011	US	SERC	SERC-N	AC	151-199	151-199	122	6	2012	Stillwell	Baldor	15.26	OH	H	W	795	ACSR	1		1	1	924	Associated Electric Cooperative, Inc.		100	Stillwell-Baldor	Planned	Reliability		
2011	US	SERC	SERC-N	AC	151-199	151-199	286	6	2019	Carthage	Philbert	3.5	OH	H	W	795	ACSR	1		1	1	924	Associated Electric Cooperative, Inc.		100	Carthage-Philbert	Conceptual	Reliability		

Table 6. Proposed high-voltage transmission line additions filed covering calendar Year 2011, by North American Electric Reliability Corporation, 2012 through 2021 (cont.)

	Geographic Area			Voltage		Capacity		In-Service		Electrical Connection		Locations		Line Information				Conductor Characteristics		Circuits		Company Information				Project Information			
Data Year	Country	NERC Region	NERC Sub-region	Type	Operating (kV)	Design (kV)	Rating (MVA)	Month	Year	From Terminal	To Terminal	Length (Miles)	Type	Pole Type	Pole Material	Size (MCM)	Material	Bundling Arrange-ment	Present	Ultimate	Company Code	Company Name	Organizational Type	Ownership (Percent)	Project Name	Level of Certainty	Primary Driver 1	Primary Driver 2	
2011	US	SERC	SERC-N	AC	151-199	151-199	286	6	2019	Jasper	Philbert	16.7	OH	H	W	795	ACSR	1		2 2	924	Associated Electric Cooperative, Inc.		100	Jasper-Philbert	Conceptual	Reliability		
2011	US	SERC	SERC-N	AC	151-199	151-199	286	6	2013	Sedalia	Windsor Tap	1	OH	H	W	795	ACSR	1		2 2	924	Associated Electric Cooperative, Inc.		100	Sedalia-Windsor Tap	Planned	Reliability		
2011	US	SERC	SERC-N	AC	151-199	151-199	204	6	2016	Barnett	Eldon	0	OH	H	W	556	ACSR	1		1 1	924	Associated Electric Cooperative, Inc.		0	Barnett-Eldon	Planned	Reliability		
2011	US	SERC	SERC-N	AC	121-150	121-150	228	12	2013	Warwick Tap	Warwick	7.36	OH	H	W	1272	ACSR	1		1 1	924	Associated Electric Cooperative, Inc.		100	Warwick Tap-Warwick	Planned	Reliability		
2011	US	SERC	SERC-N	AC	151-199	151-199	286	6	2013	Notch	Redwood	30	OH	H	W	795	ACSR	1		2 2	924	Associated Electric Cooperative, Inc.		100	Notch-Redwood	Planned	Reliability		
2011	US	SERC	SERC-SE	AC	200-299	200-299	1243	5	2015	Barry	Chickasaw	0	OH	T	O	1033	OT	2		1 1	195	Alabama Power Company		100	Barry-Chickasaw	Upgrade	Reliability		
2011	US	SERC	SERC-SE	AC	200-299	200-299	502	5	2022	Gaston	East Pelham	0	OH	T	B	1033	ACSR	1		1 1	195	Alabama Power Company		100	Gaston-East Pelham	Upgrade	Reliability		
2011	US	SERC	SERC-SE	AC	100-120	100-120	184	5	2014	North Crichton S.S.	South Mobile	0	OH	H	W	398	OT	1		1 1	195	Alabama Power Company		100	North Crichton S.S.-South Mobile	Upgrade	Reliability		
2011	US	SERC	SERC-SE	AC	100-120	100-120	184	5	2014	North Crichton S.S.	South Mobile (2)	0	OH	H	W	398	OT	1		1 1	195	Alabama Power Company		100	North Crichton S.S.-South Mobile	Upgrade	Reliability		
2011	US	SERC	SERC-SE	AC	100-120	100-120	290	5	2014	Big Creek T.S.	Lynndell D.S.	8	OH	O	U	795	OT	1		1 1	195	Alabama Power Company		100	Big Creek T.S.-Lynndell D.S.	Planned	Reliability		
2011	US	SERC	SERC-SE	AC	100-120	100-120	290	2	2015	North Mobile	Crichton #1	0	OH	H	W	795	OT	1		1 1	195	Alabama Power Company		100	North Mobile-Crichton #1	Upgrade	Reliability		
2011	US	SERC	SERC-SE	AC	100-120	100-120	290	12	2014	Schillinger Road	Lott Road Tap	2	OH	O	U	795	OT	1		1 1	195	Alabama Power Company		100	Schillinger Road-Lott Road Tap	Planned	Reliability		
2011	US	SERC	SERC-SE	AC	100-120	100-120	270	5	2018	Leeds	Westbury	0	OH	H	B	397	ACSR	OT		2 2	195	Alabama Power Company		100	Leeds-Westbury	Upgrade	Reliability		
2011	US	SERC	SERC-SE	AC	100-120	100-120	290	6	2020	North Brewton TS	North Brewton DS	6	OH	O	U	795	OT	1		1 1	195	Alabama Power Company		100	North Brewton TS-North Brewton DS	Planned	Reliability		
2011	US	SERC	SERC-SE	AC	100-120	100-120	216	5	2021	Wire Road	Wire Road Tap	4	OH	O	U	795	ACSR	1		1 1	195	Alabama Power Company		100	Wire Road-Wire Road Tap	Planned	Reliability		
2011	US	SERC	SERC-SE	AC	100-120	100-120	138	5	2021	Opelika #1	Opelika #3	0	OH	P	B	397	ACSR	1		1 1	195	Alabama Power Company		100	Opelika #1-Opelika #3	Upgrade	Reliability		
2011	US	SERC	SERC-SE	AC	100-120	100-120	290	4	2014	North Mobile	Racetrack D.S.	2	OH	O	U	795	OT	1		1 1	195	Alabama Power Company		100	North Mobile-Racetrack D.S.	Planned	Reliability		
2011	US	SERC	SERC-SE	AC	100-120	100-120	138	3	2012	Old Pascagoula Tap	Old Pascagoula Rd	2	OH	O	U	398	ACSR	1		1 1	195	Alabama Power Company		100	Old Pascagoula Tap-Old Pascagoula Rd	Planned	Reliability		
2011	US	SERC	SERC-SE	AC	100-120	100-120	341	5	2019	Kimberly Clark	Blakeley Island	0	OH	O	U	1033	OT	1		1 1	195	Alabama Power Company		100	Kimberly Clark-Blakeley Island	Upgrade	Reliability		
2011	US	SERC	SERC-SE	AC	100-120	100-120	216	6	2013	McIntosh	Jackson TS (New miles)	2	OH	T	S	795	ACSR	1		1 1	195	Alabama Power Company		100	McIntosh-Jackson TS (New miles)	Planned	Reliability		
2011	US	SERC	SERC-SE	AC	100-120	100-120	216	4	2016	Springdale D.S.	Springhill D.S.	0	OH	P	B	795	ACSR	1		1 1	195	Alabama Power Company		100	Springdale D.S.-Springhill D.S.	Upgrade	Reliability		
2011	US	SERC	SERC-SE	AC	100-120	100-120	138	3	2015	Michael Blvd D.S.	Michael Blvd Tap	0	OH	P	B	398	ACSR	1		1 1	195	Alabama Power Company		100	Michael Blvd D.S.-Michael Blvd Tap	Upgrade	Reliability		
2011	US	SERC	SERC-SE	AC	100-120	100-120	216	5	2015	Wolf Ridge D.S. Tap	Springhill D.S.	0	OH	O	B	795	ACSR	1		1 1	195	Alabama Power Company		100	Wolf Ridge D.S. Tap-Springhill D.S.	Upgrade	Reliability		
2011	US	SERC	SERC-SE	AC	100-120	100-120	216	5	2012	Barnwell Tap	Barnwell	0	OH	P	B	795	ACSR	1		1 1	195	Alabama Power Company		100	Barnwell Tap-Barnwell	Upgrade	Reliability		
2011	US	SERC	SERC-SE	AC	100-120	100-120	290	12	2014	Racetrack D.S.	Lott Road	4	OH	O	U	795	OT	1		1 1	195	Alabama Power Company		100	Racetrack D.S.-Lott Road	Planned	Reliability		
2011	US	SERC	SERC-SE	AC	100-120	100-120	216	5	2012	Anniston Tap	Golden Springs	0	OH	P	B	795	ACSR	1		1 1	195	Alabama Power Company		100	Anniston Tap-Golden Springs	Upgrade	Reliability		
2011	US	SERC	SERC-SE	AC	100-120	100-120	159	5	2015	Henry Dam	Cedar Bend	0	OH	H	B	397	ACSR	1		1 1	195	Alabama Power Company		100	Henry Dam-Cedar Bend	Upgrade	Reliability		
2011	US	SERC	SERC-SE	AC	100-120	100-120	341	5	2016	So. Tuscaloosa	Holt	0	OH	P	S	1033	OT	1		1 1	195	Alabama Power Company		100	So. Tuscaloosa-Holt	Upgrade	Reliability		
2011	US	SERC	SERC-SE	AC	100-120	100-120	216	5	2014	Anniston	Oxanna	0	OH	P	B	795	ACSR	1		1 1	195	Alabama Power Company		100	Anniston-Oxanna	Upgrade	Reliability		
2011	US	SERC	SERC-SE	AC	100-120	100-120	216	5	2014	Anniston	Greenbrier	1	OH	P	B	795	ACSR	1		2 2	195	Alabama Power Company		100	Anniston-Greenbrier	Planned	Reliability		



Table 6. Proposed high-voltage transmission line additions filed covering calendar Year 2011, by North American Electric Reliability Corporation, 2012 through 2021 (cont.)

Geographic Area				Voltage		Capacity		In-Service		Electrical Connection	Locations	Line Information				Conductor Characteristics		Circuits			Company Information				Project Information			
Data Year	Country	NERC Region	NERC Sub-region	Type	Operating (kV)	Design (kV)	Rating (MVA)	Month	Year	From Terminal	To Terminal	Length (Miles)	Type	Pole Type	Pole Material	Size (MCM)	Material	Bundling Arrangement	Present	Ultimate	Company Code	Company Name	Organizational Type	Ownership (Percent)	Project Name	Level of Certainty	Primary Driver 1	Primary Driver 2
2011	US	SERC	SERC-SE	AC	100-120	100-120	341	5	2015	31st Avenue	South Tuscaloosa	0 OH	P	S	1033	OT	1		1 1	195		Alabama Power Company		100	31st Avenue-South Tuscaloosa	Upgrade	Reliability	
2011	US	SERC	SERC-SE	AC	100-120	100-120	216	5	2019	Demopolis	Selma	0 OH	P	S	795	ACSR	1		1 1	195		Alabama Power Company		100	Demopolis-Selma	Upgrade	Reliability	
2011	US	SERC	SERC-SE	AC	100-120	100-120	216	5	2018	Barnwell Tap	Turkey Hill	3 OH	O	U	795	ACSR	1		1 1	195		Alabama Power Company		100	Barnwell Tap-Turkey Hill	Planned	Reliability	
2011	US	SERC	SERC-SE	AC	100-120	100-120	216	5	2018	Silverhill	Fish River Tap	0 OH	P	B	795	ACSR	1		1 1	195		Alabama Power Company		100	Silverhill-Fish River Tap	Upgrade	Reliability	
2011	US	SERC	SERC-SE	AC	100-120	100-120	383	5	2014	Plantation Pipeline (Akron)	Akron	1 OH	P	S	1033	OT	1		1 1	195		Alabama Power Company		100	Plantation Pipeline (Akron)-Akron	Planned	Reliability	
2011	US	SERC	SERC-SE	AC	100-120	100-120	138	5	2019	Colonial Pipeline (Moundville) Tap	Colonial Pipeline (Moundville)	0 OH	P	S	398	ACSR	1		1 1	195		Alabama Power Company		100	Colonial Pipeline (Moundville) Tap-Colonial Pipeline (Moundville)	Upgrade	Reliability	
2011	US	SERC	SERC-SE	AC	100-120	200-299	336	5	2013	Pinckard TS	Slocomb TS	0 OH	O	U	1033	OT	1		1 1	195		Alabama Power Company		100	Pinckard TS-Slocomb TS	Upgrade	Reliability	
2011	US	SERC	SERC-SE	AC	100-120	100-120	216	5	2014	North Selma	Inter Paper Tap	7 OH	O	U	795	ACSR	1		2 2	195		Alabama Power Company		100	North Selma-Inter Paper Tap	Planned	Reliability	
2011	US	SERC	SERC-SE	AC	100-120	200-299	336	5	2014	Slocomb TS	AL/FL State Line	0 OH	O	U	1033	OT	1		1 1	195		Alabama Power Company		100	Slocomb TS-AL/FL State Line	Upgrade	Reliability	
2011	US	SERC	SERC-SE	AC	200-299	200-299	807	5	2014	Snowdown TS	Pike Co	0 OH	O	U	1351	OT	1		1 1	195		Alabama Power Company		100	Snowdown TS-Pike Co	Upgrade	Reliability	
2011	US	SERC	SERC-SE	AC	200-299	200-299	1614	5	2013	Autaugaville 6	Autaugaville 8	1 OH	O	U	1351	OT	2		1 1	195		Alabama Power Company		100	Autaugaville 6-Autaugaville 8	Planned	Reliability	
2011	US	SERC	SERC-SE	AC	100-120	100-120	216	5	2013	South Montg	Pinedale	0 OH	H	B	795	ACSR	1		1 1	195		Alabama Power Company		100	South Montg-Pinedale	Upgrade	Reliability	
2011	US	SERC	SERC-SE	AC	100-120	100-120	216	5	2013	Pinedale	ECI Halstead	0 OH	H	B	795	ACSR	1		1 1	195		Alabama Power Company		100	Pinedale-ECI Halstead	Upgrade	Reliability	
2011	US	SERC	SERC-SE	AC	200-299	200-299	403	5	2013	Montg SS	South Montg	0 OH	T	S	1351	OT	1		1 1	195		Alabama Power Company		100	Montg SS-South Montg	Upgrade	Reliability	
2011	US	SERC	SERC-SE	AC	100-120	100-120	138	5	2015	Cedar Bend	North Cedar Bend Tap	0 OH	H	B	397	ACSR	1		1 1	195		Alabama Power Company		100	Cedar Bend-North Cedar Bend Tap	Upgrade	Reliability	
2011	US	SERC	SERC-SE	AC	100-120	100-120	454	5	2014	Bynum	Anniston	0 OH	O	B	1351	OT	1		1 1	195		Alabama Power Company		100	Bynum-Anniston	Upgrade	Reliability	
2011	US	SERC	SERC-SE	AC	100-120	100-120	216	5	2017	Tap 115kV TL from Fayette Highway - Hunt Oil	Airport DS	2 OH	P	S	795	ACSR	1		1 1	195		Alabama Power Company		100	Tap 115kV TL from Fayette Highway - Hunt Oil-Airport DS	Planned	Reliability	
2011	US	SERC	SERC-SE	AC	100-120	100-120	154	5	2021	Bellamy SS	Cuba	0 OH	P	S	398	ACSR	1		1 1	195		Alabama Power Company		100	Bellamy SS-Cuba	Upgrade	Reliability	
2011	US	SERC	SERC-SE	AC	100-120	100-120	154	5	2021	Demopolis TS	Cemex	0 OH	P	S	398	ACSR	1		1 1	195		Alabama Power Company		100	Demopolis TS-Cemex	Upgrade	Reliability	
2011	US	SERC	SERC-SE	AC	100-120	100-120	138	5	2016	Big Sandy Tap	Englewood Tap	0 OH	P	S	398	ACSR	1		1 1	195		Alabama Power Company		100	Big Sandy Tap-Englewood Tap	Upgrade	Reliability	
2011	US	SERC	SERC-SE	AC	100-120	100-120	383	5	2015	Moundville	North Moundville	5 OH	P	S	1033	OT	1		1 1	195		Alabama Power Company		100	North Moundville	Planned	Reliability	
2011	US	SERC	SERC-SE	AC	100-120	100-120	383	5	2014	Englewood Tap	Moundville	9 OH	P	S	1033	OT	1		1 1	195		Alabama Power Company		100	Englewood Tap-Moundville	Planned	Reliability	
2011	US	SERC	SERC-SE	AC	100-120	100-120	383	5	2016	Englewood Tap	South Tuscaloosa	18 OH	P	S	1033	OT	1		1 1	195		Alabama Power Company		100	South Tuscaloosa	Planned	Reliability	
2011	US	SERC	SERC-SE	AC	100-120	100-120	383	5	2019	Moundville	Colonial Pipeline (Moundville)	6 OH	P	S	1033	OT	1		1 1	195		Alabama Power Company		100	Colonial Pipeline (Moundville)	Planned	Reliability	
2011	US	SERC	SERC-SE	AC	100-120	100-120	341	5	2014	Epes	Eutaw	23 OH	P	S	1033	OT	1		1 1	195		Alabama Power Company		100	Epes-Eutaw	Planned	Reliability	
2011	US	SERC	SERC-SE	AC	200-299	200-299	602	6	2018	O'Hara	McDonough Primary	20 OH	P	S	1351	ACSR	1		2 2	7140		Georgia Power Company		100	O'Hara-McDonough Primary	Planned	Reliability	
2011	US	SERC	SERC-SE	AC	200-299	200-299	602	6	2019	South Dahlonega	Palmer Creek	10 OH	H	S	1351	ACSR	1		1 1	7140		Georgia Power Company		100	South Dahlonega-Palmer Creek	Planned	Reliability	
2011	US	SERC	SERC-SE	AC	400-599	400-599	2701	6	2016	Vogtle	Thomson	60 OH	T	S	1113	ACSR	3		1 1	7140		Georgia Power Company		100	Vogtle-Thomson	Planned	Nuclear Integration	
2011	US	SERC	SERC-SE	AC	200-299	200-299	1024	6	2012	Kraft	McIntosh (white)	0 OH	P	S	1622	ACCR	2		1 1	7140		Georgia Power Company		100	Kraft-McIntosh (white)	Upgrade	Reliability	
2011	US	SERC	SERC-SE	AC	200-299	200-299	1024	6	2014	Blanford/Meldrim	McIntosh (white)	0 OH	P	S	1622	ACCR	2		1 1	7140		Georgia Power Company		100	Blanford/Meldrim-McIntosh (white)	Upgrade	Reliability	
2011	US	SERC	SERC-SE	AC	200-299	200-299	1024	6	2014	Blanford/Meldrim	McIntosh (black) (2)	0 OH	P	S	1622	ACCR	2		1 1	7140		Georgia Power Company		100	Blanford/Meldrim-McIntosh (black)	Upgrade	Reliability	

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	Geographic Area			Voltage		Capacity		In-Service		Electrical Connection		Locations		Line Information				Conductor Characteristics			Circuits		Company Information				Project Information			
Data Year	Country	NERC Region	NERC Sub-region	Type	Operating (kV)	Design (kV)	Rating (MVA)	Month	Year	From Terminal	To Terminal	Length (Miles)	Type	Pole Type	Pole Material	Size (MCM)	Material	Bundling Arrange-ment	Present	Ultimate	Company Code	Company Name	Organizational Type	Ownership (Percent)	Project Name	Level of Certainty	Primary Driver 1	Primary Driver 2		
2011	US	SERC	SERC-SE	AC	100-120	100-120	216	5	2016	Austin Drive	River Road		0 OH	P	S	795	ACSR	1		1 1	7140	Georgia Power Company		100	Austin Drive-River Road	Upgrade	Reliability			
2011	US	SERC	SERC-SE	AC	100-120	100-120	216	6	2013	Bark Camp	Gainesville #1		0 OH	P	S	795	ACSR	1		1 1	7140	Georgia Power Company		100	Bark Camp-Gainesville #1	Upgrade	Reliability			
2011	US	SERC	SERC-SE	AC	100-120	100-120	255	5	2019	Bremen	Possum Branch		0 OH	H	W	1033	ACSR	1		1 1	7140	Georgia Power Company		100	Bremen-Possum Branch	Upgrade	Reliability			
2011	US	SERC	SERC-SE	AC	100-120	100-120	216	6	2018	Brunswick	Stonewall Junct.		0 OH	P	S	795	ACSR	1		1 1	7140	Georgia Power Company		100	Brunswick-Stonewall Junct.	Upgrade	Reliability			
2011	US	SERC	SERC-SE	AC	100-120	200-299	301	5	2018	Cornish Mountain	Sigman Road		0 OH	P	S	1351	ACSR	1		1 1	7140	Georgia Power Company		100	Cornish Mountain-Sigman Road	Upgrade	Reliability			
2011	US	SERC	SERC-SE	AC	100-120	100-120	369	6	2017	Daniel Siding	Little Ogeechee		0 OH	P	S	336	OT	2		1 1	7140	Georgia Power Company		100	Daniel Siding-Little Ogeechee	Upgrade	Reliability			
2011	US	SERC	SERC-SE	AC	100-120	100-120	216	6	2013	Dawsonville	Leach Road		0 OH	P	S	795	ACSR	1		1 1	7140	Georgia Power Company		100	Dawsonville-Leach Road	Upgrade	Reliability			
2011	US	SERC	SERC-SE	AC	100-120	100-120	188	5	2016	Decatur	Kirkland		0 OH	P	S	636	ACSR	1		1 1	7140	Georgia Power Company		100	Decatur-Kirkland	Upgrade	Reliability			
2011	US	SERC	SERC-SE	AC	100-120	100-120	140	5	2016	Douglasville	Post Road		0 OH	H	W	397	ACSR	1		1 1	7140	Georgia Power Company		100	Douglasville-Post Road	Upgrade	Reliability			
2011	US	SERC	SERC-SE	AC	100-120	100-120	255	6	2021	Douglasville	West Marietta		0 OH	T	S	1033	ACSR	1		1 1	7140	Georgia Power Company		100	Douglasville-West Marietta	Upgrade	Reliability			
2011	US	SERC	SERC-SE	AC	100-120	100-120	255	6	2020	East Social Circle	Social Circle		0 OH	P	S	1033	ACSR	1		1 1	7140	Georgia Power Company		100	East Social Circle-Social Circle	Upgrade	Reliability			
2011	US	SERC	SERC-SE	AC	100-120	200-299	301	5	2015	Hampton	McDonough Pri		0 OH	P	S	1351	ACSR	1		1 2	7140	Georgia Power Company		100	Hampton-McDonough Pri	Upgrade	Reliability			
2011	US	SERC	SERC-SE	AC	100-120	100-120	216	6	2017	Horse Creek	Ludowici		0 OH	P	S	795	ACSR	1		1 1	7140	Georgia Power Company		100	Horse Creek-Ludowici	Upgrade	Reliability			
2011	US	SERC	SERC-SE	AC	200-299	200-299	602	6	2013	Jack McDonough	Northwest		0 OH	T	S	1351	ACSR	1		2 2	7140	Georgia Power Company		100	Jack McDonough-Northwest	Upgrade	Fossil-Fired Integration			
2011	US	SERC	SERC-SE	AC	200-299	200-299	602	6	2013	Jack McDonough	Northwest (2)		0 OH	T	S	1351	ACSR	1		2 2	7140	Georgia Power Company		100	Jack McDonough-Northwest	Upgrade	Fossil-Fired Integration			
2011	US	SERC	SERC-SE	AC	100-120	100-120	255	6	2018	Jack McDonough	West Marietta		4 OH	T	S	1033	ACSR	1		1 1	7140	Georgia Power Company		100	Jack McDonough-West Marietta	Planned	Reliability			
2011	US	SERC	SERC-SE	AC	100-120	100-120	216	6	2017	Jesup	Rayonier		0 OH	P	S	795	ACSR	1		1 1	7140	Georgia Power Company		100	Jesup-Rayonier	Upgrade	Reliability			
2011	US	SERC	SERC-SE	AC	100-120	100-120	301	6	2021	McConnell Road	South Acworth		0 OH	H	W	1033	ACSR	1		1 1	7140	Georgia Power Company		100	McConnell Road-South Acworth	Upgrade	Reliability			
2011	US	SERC	SERC-SE	AC	100-120	100-120	255	6	2021	O'Hara	Corinth Road		0 OH	P	S	1033	ACSR	1		1 1	7140	Georgia Power Company		100	O'Hara-Corinth Road	Upgrade	Reliability			
2011	US	SERC	SERC-SE	AC	100-120	100-120	138	5	2013	Porterdale	S. Covington Tap		0 OH	H	W	397	ACSR	1		1 1	7140	Georgia Power Company		100	Porterdale-S. Covington Tap	Upgrade	Reliability			
2011	US	SERC	SERC-SE	AC	100-120	100-120	216	6	2013	South Griffin	Jackson		0 OH	H	W	795	ACSR	1		1 1	7140	Georgia Power Company		100	South Griffin-Jackson	Upgrade	Reliability			
2011	US	SERC	SERC-SE	AC	100-120	100-120	216	5	2016	W. Brunswick	Altamaha		8 OH	H	S	795	ACSR	1		1 1	7140	Georgia Power Company		100	W. Brunswick-Altamaha	Planned	Reliability			
2011	US	SERC	SERC-SE	AC	100-120	100-120	255	6	2017	East Point	College Park #3		0 OH	T	S	1033	ACSR	1		1 1	7140	Georgia Power Company		100	East Point-College Park #3	Upgrade	Reliability			
2011	US	SERC	SERC-SE	AC	100-120	100-120	255	5	2021	Mountain View	Barnett Road		0 OH	T	S	1033	ACSR	1		1 1	7140	Georgia Power Company		100	Mountain View-Barnett Road	Upgrade	Reliability			
2011	US	SERC	SERC-SE	AC	100-120	100-120	417	5	2016	Morrow	Ellenwood		0 OH	P	S	1351	OT	1		1 1	7140	Georgia Power Company		100	Morrow-Ellenwood	Upgrade	Fossil-Fired Integration			
2011	US	SERC	SERC-SE	AC	100-120	200-299	301	5	2018	Parkaire	Roswell		5 OH	P	S	1351	ACSR	2		1 2	7140	Georgia Power Company		100	Parkaire-Roswell	Planned	Reliability			
2011	US	SERC	SERC-SE	AC	200-299	200-299	682	5	2018	Berkeley Lake	Spruill Road		0 OH	P	S	1033	OT	1		1 1	7140	Georgia Power Company		100	Berkeley Lake-Spruill Road	Upgrade	Reliability			
2011	US	SERC	SERC-SE	AC	100-120	100-120	293	5	2012	Grady	Moreland Avenue		0 OH	P	S	795	OT	1		1 1	7140	Georgia Power Company		100	Grady-Moreland Avenue	Upgrade	Fossil-Fired Integration			
2011	US	SERC	SERC-SE	AC	100-120	100-120	301	6	2013	Northside Drive	Northwest		0 OH	T	S	1351	ACSR	1		1 1	7140	Georgia Power Company		100	Northside Drive-Northwest	Upgrade	Fossil-Fired Integration			
2011	US	SERC	SERC-SE	AC	100-120	100-120	188	6	2013	Atkinson	Northside Drive		0 OH	P	S	636	ACSR	1		1 1	7140	Georgia Power Company		100	Atkinson-Northside Drive	Upgrade	Fossil-Fired Integration			
2011	US	SERC	SERC-SE	AC	100-120	100-120	269	5	2013	Northside Drive	Spring Street		0 OH	P	S	1033	OT	1		1 1	7140	Georgia Power Company		100	Northside Drive-Spring Street	Upgrade	Reliability			
2011	US	SERC	SERC-SE	AC	100-120	100-120	124	5	2014	North Americus	North Tifton		0 OH	H	W	336	ACSR	1		1 1	7140	Georgia Power Company		100	North Americus-North Tifton	Upgrade	Reliability			

Table 6. Proposed high-voltage transmission line additions filed covering calendar Year 2011, by North American Electric Reliability Corporation, 2012 through 2021 (cont.)

Geographic Area				Voltage		Capacity		In-Service		Electrical Connection	Locations	Line Information				Conductor Characteristics		Circuits			Company Information				Project Information			
Data Year	Country	NERC Region	NERC Sub-region	Type	Operating (kV)	Design (kV)	Rating (MVA)	Month	Year	From Terminal	To Terminal	Length (Miles)	Type	Pole Type	Pole Material	Size (MCM)	Material	Bundling Arrangement	Present	Ultimate	Company Code	Company Name	Organizational Type	Ownership (Percent)	Project Name	Level of Certainty	Primary Driver 1	Primary Driver 2
2011	US	SERC	SERC-SE	AC	100-120	100-120	216	6	2021	First Avenue	North Columbus	0 OH	P	S	795	ACSR	1			1 1	7140	Georgia Power Company		100	First Avenue-North Columbus	Upgrade	Reliability	
2011	US	SERC	SERC-SE	AC	100-120	100-120	216	6	2015	Bull Creek	Victory Drive	0 OH	P	C	795	ACSR	1			1 1	7140	Georgia Power Company		100	Bull Creek-Victory Drive	Upgrade	Reliability	
2011	US	SERC	SERC-SE	AC	100-120	100-120	155	6	2021	Americus	North Americus	0 OH	H	W	477	ACSR	1			1 1	7140	Georgia Power Company		100	Americus-North Americus	Upgrade	Reliability	
2011	US	SERC	SERC-SE	AC	100-120	100-120	216	6	2019	Blackshear Jct.	Offerman	0 OH	H	W	795	ACSR	1			1 1	7140	Georgia Power Company		100	Blackshear Jct.-Offerman	Upgrade	Reliability	
2011	US	SERC	SERC-SE	AC	100-120	100-120	216	5	2021	Bemiss	Pine Grove Primary	0 OH	H	W	795	ACSR	1			1 1	7140	Georgia Power Company		100	Bemiss-Pine Grove Primary	Upgrade	Reliability	
2011	US	SERC	SERC-SE	AC	100-120	100-120	341	5	2013	Lassiter Road	North Marietta	0 OH	P	S	1033	OT	1			1 1	7140	Georgia Power Company		100	Lassiter Road-North Marietta	Upgrade	Reliability	
2011	US	SERC	SERC-SE	AC	200-299	200-299	866	6	2015	Dean Forest	Kraft	0 OH	P	S	795	ACSR	2			1 1	7140	Georgia Power Company		100	Dean Forest-Kraft	Upgrade	Reliability Variable/Renewable Integration	
2011	US	SERC	SERC-SE	AC	200-299	200-299	1018	6	2015	Dean Forest	GSW	5 OH	P	S	1033	ACSR	2			1 1	7140	Georgia Power Company		100	Dean Forest-GSW	Planned		
2011	US	SERC	SERC-SE	AC	100-120	200-299	433	6	2015	Boulevard	Dean Forest	0 OH	P	S	795	ACSR	2			1 1	7140	Georgia Power Company		100	Boulevard-Dean Forest	Upgrade	Reliability	
2011	US	SERC	SERC-SE	AC	200-299	200-299	866	6	2015	Boulevard	Dean Forest (2)	0 OH	P	S	795	ACSR	2			1 1	7140	Georgia Power Company		100	Boulevard-Dean Forest	Upgrade	Reliability	
2011	US	SERC	SERC-SE	AC	200-299	200-299	1205	6	2017	Dorchester	Little Ogeechee	0 OH	P	S	1351	ACSR	2			1 1	7140	Georgia Power Company		100	Dorchester-Little Ogeechee	Upgrade	Reliability	
2011	US	SERC	SERC-SE	AC	200-299	200-299	1018	6	2017	Dorchester	West Brunswick	45 OH	P	S	1033	ACSR	2			1 1	7140	Georgia Power Company		100	Dorchester-West Brunswick	Planned	Reliability	
2011	US	SERC	SERC-SE	AC	100-120	100-120	216	6	2017	Dorchester	Walthourville	8 OH	P	S	795	ACSR	1			1 1	7140	Georgia Power Company		100	Dorchester-Walthourville	Planned	Reliability	
2011	US	SERC	SERC-SE	AC	100-120	100-120	124	6	2019	Sylvania	Deal Branch	0 OH	P	S	336	ACSR	1			1 1	7140	Georgia Power Company		100	Sylvania-Deal Branch	Upgrade	Reliability	
2011	US	SERC	SERC-SE	AC	200-299	200-299	602	6	2017	Bethabara	East Walton	8 OH	P	B	1351	ACSR	1			1 1	7197	Georgia Transmission Corporation		100	Bethabara-East Walton	Planned	Reliability	
2011	US	SERC	SERC-SE	AC	200-299	200-299	602	6	2017	Bostwick	East Walton	4 OH	P	B	1351	ACSR	1			1 1	7197	Georgia Transmission Corporation		100	Bostwick-East Walton	Planned	Reliability	
2011	US	SERC	SERC-SE	AC	200-299	200-299	602	6	2017	East Walton	Jack's Creek	9 OH	P	B	1351	ACSR	1			1 1	7197	Georgia Transmission Corporation		100	East Walton-Jack's Creek	Planned	Reliability	
2011	US	SERC	SERC-SE	AC	400-599	400-599	3464	6	2017	East Walton	Rockville	40 OH	T	S	1113	ACSR	3			1 1	7197	Georgia Transmission Corporation		100	East Walton-Rockville	Planned	Reliability	
2011	US	SERC	SERC-SE	AC	200-299	200-299	602	6	2018	Cumming	Sharon Springs	7 OH	P	U	1351	ACSR	1			1 1	7197	Georgia Transmission Corporation		100	Cumming-Sharon Springs	Planned	Reliability	
2011	US	SERC	SERC-SE	AC	100-120	100-120	216	6	2013	Burnt Church	Tradeport Industrial	12 OH	P	C	795	ACSR	1			1 1	7197	Georgia Transmission Corporation		100	Burnt Church-Tradeport Industrial	Under Construction	Reliability	
2011	US	SERC	SERC-SE	AC	100-120	100-120	216	6	2016	Daniel Siding	Burnt Church	0 OH	O	B	795	ACSR	1			1 1	7197	Georgia Transmission Corporation		100	Daniel Siding-Burnt Church	Upgrade	Reliability	
2011	US	SERC	SERC-SE	AC	100-120	100-120	124	7	2014	Lords	Toombsboro	4 OH	P	B	336	ACSR	1			1 1	7197	Georgia Transmission Corporation		100	Lords-Toombsboro	Planned	Variable/Renewable Integration	
2011	US	SERC	SERC-SE	AC	100-120	100-120	216	6	2018	Ingram	Peeksville	7 OH	P	U	795	ACSR	1			1 1	7197	Georgia Transmission Corporation		100	Ingram-Peeksville	Planned		
2011	US	SERC	SERC-SE	AC	200-299	200-299	693	6	2015	Barry	Crist	0 OH	T	O	1351	ACSR	1			1 1	7801	Gulf Power Company		51	Barry-Crist	Upgrade	Reliability	
2011	US	SERC	SERC-SE	AC	200-299	200-299	602	6	2013	Lansing Smith	Laguna Beach	14 OH	H	C	1351	ACSR	1			1 2	7801	Gulf Power Company		100	Lansing Smith-Laguna Beach	Planned	Reliability	
2011	US	SERC	SERC-SE	AC	200-299	200-299	602	6	2015	Laguna Beach	Santa Rosa	21 OH	P	C	1351	ACSR	1			2 2	7801	Gulf Power Company		100	Laguna Beach-Santa Rosa	Planned	Reliability	
2011	US	SERC	SERC-SE	AC	100-120	200-299	301	5	2012	Lansing Smith	Laguna Beach	0 OH	H	C	1351	ACSR	1			1 2	7801	Gulf Power Company		100	Lansing Smith-Laguna Beach	Upgrade	Reliability	
2011	US	SERC	SERC-SE	AC	100-120	100-120	251	4	2012	Champion	Molino	0 OH	P	C	1033	ACSR	1			1 1	7801	Gulf Power Company		100	Champion-Molino	Upgrade	Reliability	
2011	US	SERC	SERC-SE	AC	100-120	100-120	216	6	2022	Callaway	Gaskin	0 OH	P	C	795	ACSR	1			1 1	7801	Gulf Power Company		100	Callaway-Gaskin	Upgrade	Reliability	
2011	US	SERC	SERC-SE	AC	100-120	100-120	251	5	2012	Pine Forest	Champion	0 OH	P	C	1033	ACSR	1			1 1	7801	Gulf Power Company		100	Pine Forest-Champion	Upgrade	Reliability	

Table 6. Proposed high-voltage transmission line additions filed covering calendar Year 2011, by North American Electric Reliability Corporation, 2012 through 2021 (cont.)

	Geographic Area			Voltage		Capacity		In-Service		Electrical Connection		Locations		Line Information				Conductor Characteristics			Circuits		Company Information				Project Information			
Data Year	Country	NERC Region	NERC Sub-region	Type	Operating (kV)	Design (kV)	Rating (MVA)	Month	Year	From Terminal	To Terminal	Length (Miles)	Type	Pole Type	Pole Material	Size (MCM)	Material	Bundling Arrangement	Present	Ultimate	Company Code	Company Name	Organizational Type	Ownership (Percent)	Project Name	Level of Certainty	Primary Driver 1	Primary Driver 2		
2011	US	SERC	SERC-SE	AC	100-120	200-299	336	6	2013	Pinckard	Holmes Creek	0	OH	O	U	1033	OT	1		1	1	7801	Gulf Power Company		9	Pinckard-Holmes Creek	Upgrade	Reliability		
2011	US	SERC	SERC-SE	AC	200-299	200-299	602	6	2015	Laguna Beach	Santa Rosa (2)	21	OH	P	C	1351	ACSR	1		2	2	7801	Gulf Power Company		100	Laguna Beach-Santa Rosa	Planned	Reliability		
2011	US	SERC	SERC-SE	AC	100-120	100-120	124	6	2018	Bayou Marcus	Beach Haven	0	OH	H	W	336	ACSR	1		1	1	7801	Gulf Power Company		100	Bayou Marcus-Beach Haven	Upgrade	Reliability		
2011	US	SERC	SERC-SE	AC	100-120	100-120	251	6	2022	Wright	Sullivan	0	OH	P	C	1033	ACSR	1		1	1	7801	Gulf Power Company		100	Wright-Sullivan	Upgrade	Reliability		
2011	US	SERC	SERC-SE	AC	100-120	100-120	251	6	2022	Wright	Fort Walton	0	OH	P	C	1033	ACSR	1		1	1	7801	Gulf Power Company		100	Wright-Fort Walton	Upgrade	Reliability		
2011	US	SERC	SERC-SE	AC	100-120	100-120	216	6	2017	Wiggins SS	Wiggins 5th Ave	0	OH	P	C	795	ACSR	1		1	1	12686	Mississippi Power Company		100	Wiggins SS-Wiggins 5th Ave	Upgrade	Reliability		
2011	US	SERC	SERC-SE	AC	100-120	100-120	216	6	2014	Hattiesburg SW	Hwy 11	0	OH	P	C	795	ACSR	1		1	1	12686	Mississippi Power Company		100	Hattiesburg SW-Hwy 11	Upgrade	Reliability		
2011	US	SERC	SERC-SE	AC	100-120	100-120	216	6	2014	Hattiesburg SW	West Hattiesburg	0	OH	P	C	795	ACSR	1		1	1	12686	Mississippi Power Company		100	Hattiesburg SW-West Hattiesburg	Upgrade	Reliability		
2011	US	SERC	SERC-SE	AC	100-120	100-120	251	6	2022	Orange Grove	Chevron PRCP	5	OH	P	C	1033	ACSR	1		1	1	12686	Mississippi Power Company		100	Orange Grove-Chevron PRCP	Planned	Reliability		
2011	US	SERC	SERC-SE	AC	100-120	100-120	251	6	2022	Orange Grove	Bayou Casotte	0	OH	P	C	1033	ACSR	1		1	1	12686	Mississippi Power Company		100	Orange Grove-Bayou Casotte	Upgrade	Reliability		
2011	US	SERC	SERC-SE	AC	200-299	200-299	752	6	2012	Kemper IGCC	Lauderdale East	18	OH	H	S	1033	OT	1		1	1	12686	Mississippi Power Company		100	Kemper IGCC-Lauderdale East	Under Construction	Fossil-Fired Integration		
2011	US	SERC	SERC-SE	AC	200-299	200-299	752	9	2013	Kemper IGCC	Lauderdale West	20	OH	H	S	1033	OT	1		1	1	12686	Mississippi Power Company		100	Kemper IGCC-Lauderdale West	Under Construction	Fossil-Fired Integration		
2011	US	SERC	SERC-SE	AC	200-299	200-299	602	3	2013	Lauderdale East	Vimville	6	OH	H	S	1351	ACSR	1		1	1	12686	Mississippi Power Company		100	Lauderdale East-Vimville	Under Construction	Fossil-Fired Integration		
2011	US	SERC	SERC-SE	AC	200-299	200-299	602	7	2013	Vimville	Sweatt	14	OH	H	S	1351	ACSR	1		1	1	12686	Mississippi Power Company		100	Vimville-Sweatt	Under Construction	Fossil-Fired Integration		
2011	US	SERC	SERC-SE	AC	100-120	100-120	216	6	2012	Sweatt	Stonewall	0	OH	P	C	795	ACSR	1		1	1	12686	Mississippi Power Company		100	Sweatt-Stonewall	Upgrade	Fossil-Fired Integration		
2011	US	SERC	SERC-SE	AC	100-120	100-120	216	1	2014	Meridian NE	Vimville	9	OH	P	C	795	ACSR	1		1	1	12686	Mississippi Power Company		100	Meridian NE-Vimville	Under Construction	Fossil-Fired Integration		
2011	US	SERC	SERC-SE	AC	100-120	100-120	216	6	2016	Hurricane Creek	Wiggins SS	0	OH	P	C	795	ACSR	1		1	1	12686	Mississippi Power Company		100	Hurricane Creek-Wiggins SS	Upgrade	Reliability		
2011	US	SERC	SERC-SE	AC	100-120	100-120	216	6	2014	Laurel North Amaranth	Heidelberg	0	OH	P	C	795	ACSR	1		1	1	12686	Mississippi Power Company		100	Laurel North Amaranth-Heidelberg	Upgrade	Reliability		
2011	US	SERC	SERC-SE	AC	200-299	200-299	865	12	2012	Plant Daniel	Moss Point East	0	OH	P	S	795	ACSR	2		1	1	12686	Mississippi Power Company		100	Plant Daniel-Moss Point East	Upgrade	Reliability		
2011	US	SERC	SERC-SE	AC	200-299	200-299	752	6	2022	Orange Grove	Moss Point East	0	OH	T	S	1033	OT	1		1	1	12686	Mississippi Power Company		100	Orange Grove-Moss Point East	Upgrade	Reliability		
2011	US	SERC	SERC-SE	AC	100-120	100-120	155	6	2014	Hattiesburg North	Petal George St.	0	OH	P	C	477	ACSR	1		1	1	12686	Mississippi Power Company		100	Hattiesburg North-Petal George St.	Upgrade	Reliability		
2011	US	SERC	SERC-SE	AC	100-120	100-120	255	6	2016	Goshen	Waynesboro	0	OH	O	U	1033	ACSR	1		1	1	13100	Authority of Georgia		100	Goshen-Waynesboro	Upgrade	Reliability		
2011	US	SERC	SERC-SE	AC	100-120	100-120	325	6	2013	North Marietta	Marietta #5	0	OH	P	W	795	AL	1		1	1	13100	Authority of Georgia		100	North Marietta-Marietta #5	Upgrade	Reliability		
2011	US	SERC	SERC-SE	AC	100-120	100-120	216	6	2014	Crisp #2	Crisp #8	12	OH	P	W	795	ACSR	1		0	1	13100	Authority of Georgia		100	Crisp #2-Crisp #8	Conceptual	Reliability		
2011	US	SERC	SERC-SE	AC	100-120	100-120	216	6	2017	Bonaire Primary	Peach Blossum	0	OH	H	W	795	ACSR	1		1	1	13100	Authority of Georgia		100	Bonaire Primary - Fort Valley #1 115kV Improvements	Upgrade	Reliability		
2011	US	SERC	SERC-SE	AC	151-199	151-199	296	6	2012	Prentiss	Jeff Davis SS	7	OH	P	C	795	ACSR	1		1	1	17568	South Mississippi Electric Power Association		100	Prentiss-Jeff Davis SS	Under Construction	Reliability		
2011	US	SERC	SERC-SE	AC	151-199	151-199	296	6	2013	Moselle	South Hoy	23	OH	P	C	795	ACSR	1		1	1	17568	South Mississippi Electric Power Association		100	Moselle-South Hoy	Planned	Reliability		
2011	US	SERC	SERC-SE	AC	100-120	151-199	300	3	2013	Miflin Switch	Josephine TP	5	OH	P	C	1033	ACSR	1		1	1	189	PowerSouth Energy Cooperative		100	Miflin Switch-Josephine TP	Planned	Reliability		
2011	US	SERC	SERC-SE	AC	100-120	100-120	210	11	2012	Texasville Jct	Judson	16	OH	H	W	795	ACSR	1		1	1	189	PowerSouth Energy Cooperative		100	Texasville Jct-Judson	Under Construction	Economics or Congestion		



Table 6. Proposed high-voltage transmission line additions filed covering calendar Year 2011, by North American Electric Reliability Corporation, 2012 through 2021 (cont.)

	Geographic Area			Voltage		Capacity		In-Service		Electrical Connection		Locations		Line Information				Conductor Characteristics		Circuits			Company Information				Project Information			
Data Year	Country	NERC Region	NERC Sub-region	Type	Operating (kV)	Design (kV)	Rating (MVA)	Month	Year	From Terminal	To Terminal	Length (Miles)	Type	Pole Type	Pole Material	Size (MCM)	Material	Bundling Arrangement	Present	Ultimate	Company Code	Company Name	Organizational Type	Ownership (Percent)	Project Name	Level of Certainty	Primary Driver 1	Primary Driver 2		
2011	US	SERC	SERC-SE	AC	100-120	100-120	86	12	2012	Selma Jct	Selma	1	OH	H	C	267	ACSR	1		1	1	189	PowerSouth Energy Cooperative		100	Selma Jct-Selma	Planned	Other		
2011	US	SERC	SERC-SE	AC	100-120	100-120	86	6	2012	Wayne Farms Jct	Wayne Farms	4	OH	O	U	267	OT	OT		1	1	189	PowerSouth Energy Cooperative		100	Wayne Farms Jct-Wayne Farms	Conceptual	Other		
2011	US	SERC	SERC-SE	AC	100-120	100-120	86	6	2012	Owls Head Jct	Owls Head	2	OH	O	U	267	OT	OT		1	1	189	PowerSouth Energy Cooperative		100	Owls Head Jct-Owls Head	Conceptual	Other		
2011	US	SERC	SERC-SE	AC	100-120	100-120	86	3	2012	Gulf Coast Airport Jct	Gulf Coast Airport	1	OH	O	U	267	OT	OT		1	1	189	PowerSouth Energy Cooperative		100	Gulf Coast Airport Jct-Gulf Coast Airport	Planned	Other		
2011	US	SERC	SERC-SE	AC	100-120	100-120	86	6	2012	APAC Jct	APAC	1	OH	O	U	267	OT	OT		1	1	189	PowerSouth Energy Cooperative		100	APAC Jct-APAC	Conceptual	Other		
2011	US	SERC	SERC-SE	AC	100-120	100-120	86	6	2012	Millers Crossroad Jct	Millers Crossroad	1	OH	O	U	267	OT	OT		1	1	189	PowerSouth Energy Cooperative		100	Millers Crossroad Jct-Millers Crossroad	Conceptual	Other		
2011	US	SERC	SERC-SE	AC	200-299	200-299	586	6	2013	Freeport 230	Freeport 115	1	OH	O	U	1351	OT	OT		1	1	189	PowerSouth Energy Cooperative		100	Freeport 230-Freeport 115	Conceptual	Economics or Congestion		
2011	US	SERC	SERC-SE	AC	100-120	100-120	218	6	2013	Oak Grove	Jay	24	OH	P	C	795	ACSR	1		1	1	189	PowerSouth Energy Cooperative		100	Oak Grove-Jay	Planned	Reliability		
2011	US	SERC	SERC-SE	AC	100-120	100-120	218	6	2013	Gantt 230	Dublin	37	OH	H	C	795	ACSR	1		1	1	189	PowerSouth Energy Cooperative		100	Gantt 230-Dublin	Conceptual	Reliability		
2011	US	SERC	SERC-SE	AC	100-120	100-120	300	3	2013	Josephine TP	Florida Ave	1	UG	O	O	4933	CU	1		1	1	189	PowerSouth Energy Cooperative		100	Josephine TP-Florida Ave	Planned	Reliability		
2011	US	SERC	SERC-SE	AC	100-120	100-120	255	5	2017	East Point	Willingham	0	OH	O	U	1033	ACSR	1		1	1	13100	Municipal Electric Authority of Georgia		100	East Point - Willingham Dr. 115kV Reconductor	Upgrade	Reliability		
2011	US	SERC	SERC-SE	AC	100-120	100-120	301	6	2020	McConnell Road	South Acworth	0	OH	P	B	1351	ACSR	1		1	1	7197	Georgia Transmission Corporation		100	McConnell Road-South Acworth	Upgrade	Reliability		
2011	US	SERC	SERC-SE	AC	400-599	400-599	3429	5	2014	Dresden	Heard County	6	OH	T	S	1113	ACSR	3		1	1	7197	Georgia Transmission Corporation		100	Dresden-Heard County	Under Construction	Variable/Renewable Integration	Reliability	
2011	US	SERC	SERC-SE	AC	100-120	100-120	301	5	2016	Barry	North Mobile (2)	0	OH	H	B	1351	ACSR	1		1	1	195	Alabama Power Company		100	Barry-North Mobile	Upgrade	Reliability		
2011	US	SERC	SERC-SE	AC	100-120	100-120	216	5	2018	Fish River Tap	Fairhope	0	OH	O	B	795	ACSR	1		1	1	195	Alabama Power Company		100	Fish River Tap-Fairhope	Upgrade	Reliability		
2011	US	SERC	SERC-SE	AC	100-120	100-120	216	5	2018	Fairhope	Point Clear	0	OH	O	B	795	ACSR	1		1	1	195	Alabama Power Company		100	Fairhope-Point Clear	Upgrade	Reliability		
2011	US	SERC	SERC-SE	AC	200-299	200-299	807	5	2021	Ellicott TS	SSAB	6	OH	U	U	1351	OT	1		1	1	195	Alabama Power Company		100	Ellicott TS-SSAB	Planned	Reliability		
2011	US	SERC	SERC-SE	AC	200-299	200-299	693	5	2021	SSAB	Kushla S.S.	0	OH	T	U	1351	ACSR	1		1	1	195	Alabama Power Company		100	SSAB-Kushla S.S.	Upgrade	Reliability		
2011	US	SERC	SERC-SE	AC	200-299	200-299	693	5	2021	Ellicott TS	Georgetown D.S.	0	OH	T	U	1351	ACSR	1		1	1	195	Alabama Power Company		100	Ellicott TS-Georgetown D.S.	Upgrade	Reliability		
2011	US	SERC	SERC-SE	AC	200-299	200-299	907	5	2019	Co line Rd	PSDF	0	OH	O	U	1351	OT	1		1	1	195	Alabama Power Company		100	Co line Rd-PSDF	Upgrade	Reliability		
2011	US	SERC	SERC-SE	AC	100-120	100-120	286	6	2019	McIntosh	Yemassee (10)	0	OH	H	C	1272	ACSR	1		1	1	7140	Georgia Power Company	4	McIntosh-Yemassee	Upgrade	Reliability			
2011	US	SERC	SERC-SE	AC	200-299	200-299	1018	6	2019	Vogtle	Wilson	0	OH	H	S	1033	ACSR	2		1	1	7140	Georgia Power Company		100	Vogtle-Wilson	Upgrade	Reliability		
2011	US	SERC	SERC-SE	AC	200-299	200-299	866	6	2020	Waynesboro	Wilson	0	OH	H	S	795	ACSR	2		1	1	7140	Georgia Power Company		100	Waynesboro-Wilson	Upgrade	Reliability		
2011	US	SERC	SERC-SE	AC	200-299	200-299	718	6	2019	Wadley	Waynesboro	0	OH	H	S	795	ACSR	2		1	1	7140	Georgia Power Company		100	Wadley-Waynesboro	Upgrade	Reliability		
2011	US	SERC	SERC-SE	AC	100-120	100-120	255	6	2017	East Point	Willingham Drive	0	OH	H	S	1033	ACSR	1		1	1	7140	Georgia Power Company		100	East Point-Willingham Drive	Upgrade	Reliability		
2011	US	SERC	SERC-SE	AC	100-120	100-120	124	5	2015	South Columbus	Dawson Pri/Ft. Ben, AL	0	OH	H	W	336	ACSR	1		1	1	7140	Georgia Power Company		100	South Columbus-Dawson Pri/Ft. Ben, AL	Upgrade	Reliability		
2011	US	SERC	SERC-SE	AC	100-120	100-120	251	6	2018	American Cyanamid	Avalon	4	OH	P	C	1033	ACSR	1		1	1	7801	Gulf Power Company		100	American Cyanamid-Avalon	Planned	Reliability		
2011	US	SERC	SERC-SE	AC	100-120	100-120	251	12	2013	Crist	Escambia Chemical Tap	0	OH	O	U	1033	ACSR	1		1	1	7801	Gulf Power Company		100	Crist-Escambia Chemical Tap	Upgrade	Reliability		
2011	US	SERC	SERC-SE	AC	100-120	100-120	251	12	2013	Escambia Chemical Tap	Air Products	0	OH	O	U	1033	ACSR	1		1	1	7801	Gulf Power Company		100	Escambia Chemical Tap-Air Products	Upgrade	Reliability		
2011	US	SERC	SERC-SE	AC	100-120	100-120	251	12	2013	Escambia Chemical Tap	American Cyanamid	0	OH	O	U	1033	ACSR	1		1	1	7801	Gulf Power Company		100	Escambia Chemical Tap-American Cyanamid	Upgrade	Reliability		

Table 6. Proposed high-voltage transmission line additions filed covering calendar Year 2011, by North American Electric Reliability Corporation, 2012 through 2021 (cont.)

	Geographic Area			Voltage		Capacity		In-Service		Electrical Connection		Locations		Line Information				Conductor Characteristics			Circuits		Company Information				Project Information			
Data Year	Country	NERC Region	NERC Sub-region	Type	Operating (kV)	Design (kV)	Rating (MVA)	Month	Year	From Terminal	To Terminal	Length (Miles)	Type	Pole Type	Pole Material	Size (MCM)	Material	Bundling Arrange-ment	Present	Ultimate	Company Code	Company Name	Organizational Type	Ownership (Percent)	Project Name	Level of Certainty	Primary Driver 1	Primary Driver 2		
2011	US	SERC	SERC-SE	AC	100-120	100-120	301	12	2022	Greenwood	Highland City	0 OH	O	U	1351	ACSR	1		1	1	7801	Gulf Power Company		100	Greenwood-Highland City	Upgrade	Reliability			
2011	US	SERC	SERC-SE	AC	200-299	200-299	602	6	2013	Highland City	Callaway	4 OH	H	C	1351	ACSR	1		1	1	7801	Gulf Power Company		100	Highland City-Callaway	Planned	Reliability			
2011	US	SERC	SERC-SE	AC	200-299	200-299	602	6	2012	Gaston	Yellowdirt	0 OH	T	S	1351	ACSR	1		1	1	7140	Georgia Power Company		100	Gaston-Yellowdirt	Upgrade	Reliability			
2011	US	SERC	SERC-SE	AC	100-120	100-120	216	6	2013	Bonaire	Waterford	0 OH	H	W	795	ACSR	1		1	1	7140	Georgia Power Company		100	Bonaire-Waterford	Upgrade	Reliability			
2011	US	SERC	SERC-SE	AC	200-299	200-299	602	6	2012	Gaston	Roopville (2)	0 OH	T	B	1351	ACSR	1		1	1	195	Alabama Power Company		100	Gaston-Roopville	Upgrade	Reliability			
2011	US	SERC	SERC-SE	AC	200-299	200-299	1614	5	2013	Autaugaville 6	Autaugaville 8 (2)	1 OH	O	U	1351	OT	2		1	1	195	Alabama Power Company		100	Autaugaville 6-Autaugaville 8	Planned	Reliability			
2011	US	SERC	SERC-SE	AC	100-120	100-120	216	5	2015	Enterprise	South Enterprise TS	5 OH	O	U	795	ACSR	1		1	1	195	Alabama Power Company		100	Enterprise-South Enterprise TS	Planned	Reliability			
2011	US	SERC	SERC-SE	AC	100-120	100-120	216	5	2021	Co Line Rd	ECI Prattville	7 OH	O	U	795	ACSR	1		1	1	195	Alabama Power Company		100	Co Line Rd-ECI Prattville	Planned	Reliability			
2011	US	SERC	SERC-SE	AC	100-120	100-120	216	5	2019	GKN Wesland	Hall Climate Tap	0 OH	O	U	795	ACSR	1		1	1	195	Alabama Power Company		100	GKN Wesland-Hall Climate Tap	Upgrade	Reliability			
2011	US	SERC	SERC-SE	AC	100-120	100-120	216	3	2012	Meridian NE	Hawkins Crossing	0 OH	P	C	795	ACSR	1		1	1	12686	Mississippi Power Company		100	Meridian NE-Hawkins Crossing	Upgrade	Fossil-Fired Integration			
2011	US	SERC	SERC-SE	AC	100-120	100-120	301	5	2014	McManus	West Brunswick	0 OH	H	W	1351	ACSR	1		1	1	7140	Georgia Power Company		100	McManus-West Brunswick	Upgrade	Reliability			
2011	US	SERC	SERC-SE	AC	200-299	200-299	509	6	2021	Arnold Mill	Hopewell	12 OH	H	S	1033	ACSR	1		1	1	7140	Georgia Power Company		100	Arnold Mill-Hopewell	Planned	Reliability			
2011	US	SERC	SERC-SE	AC	100-120	100-120	255	6	2019	Highway 54	Ebenezer Road	6 OH	P	U	1033	ACSR	1		1	1	7197	Georgia Transmission Corporation		100	Highway 54 - Ebenezer Road	Planned	Reliability			
2011	US	SERC	SERC-SE	AC	100-120	100-120	255	6	2019	Highway 54	Tyrone	6 OH	P	U	1033	ACSR	1		1	1	7197	Georgia Transmission Corporation		100	Highway 54-Tyrone	Planned	Reliability			
2011	US	SERC	SERC-SE	AC	100-120	100-120	216	5	2017	Golden Springs	Cheaha Tap	0 OH	P	B	795	ACSR	1		1	1	195	Alabama Power Company		100	Golden Springs-Cheaha Tap	Upgrade	Reliability			
2011	US	SERC	SERC-SE	AC	100-120	100-120	159	5	2015	North Cedar Bend Tap	Rainbow City	0 OH	H	B	397	ACSR	1		1	1	195	Alabama Power Company		100	North Cedar Bend Tap-Rainbow City	Upgrade	Reliability			
2011	US	SERC	SERC-SE	AC	100-120	100-120	216	5	2014	Barnwell	Point Clear	0 OH	O	B	795	ACSR	1		1	1	195	Alabama Power Company		100	Barnwell-Point Clear	Upgrade	Reliability			
2011	US	SERC	SERC-SE	AC	200-299	200-299	907	6	2021	North Brewton TS	Crist S.P.	56 OH	O	U	1351	OT	1		1	1	195	Alabama Power Company		30	North Brewton TS-Crist S.P.	Planned	Reliability			
2011	US	SERC	SERC-SE	AC	151-199	151-199	303	5	2017	Gorgas	Jaspter TS Tap	0 OH	P	S	795	ACSR	1		1	1	195	Alabama Power Company		100	Gorgas-Jaspter TS Tap	Upgrade	Reliability			
2011	US	SERC	SERC-SE	AC	151-199	151-199	303	5	2017	Jasper TS	Jasper SS	1 OH	P	S	795	ACSR	1		1	1	195	Alabama Power Company		100	Jasper TS-Jasper SS	Planned	Reliability			
2011	US	SERC	SERC-SE	AC	151-199	151-199	303	5	2017	Jasper TS	Parkland SS	0 OH	P	S	795	ACSR	1		1	1	195	Alabama Power Company		100	Jasper TS-Parkland SS	Upgrade	Reliability			
2011	US	SERC	SERC-SE	AC	200-299	200-299	577	5	2015	PSDF	County Line Rd	0 OH	P	S	1033	ACSR	1		1	1	195	Alabama Power Company		100	PSDF-County Line Rd	Upgrade	Reliability			
2011	US	SERC	SERC-SE	AC	200-299	200-299	907	5	2019	PSDF	Gaston	0 OH	P	S	1351	OT	1		1	1	195	Alabama Power Company		100	PSDF-Gaston	Upgrade	Reliability			
2011	US	SERC	SERC-SE	AC	200-299	200-299	907	5	2020	Greene County	North Selma	0 OH	P	S	907	OT	1		1	1	195	Alabama Power Company		100	Greene County-North Selma	Upgrade	Reliability			
2011	US	SERC	SERC-SE	AC	100-120	100-120	289	6	2021	Greenwood	Shipyard	0 OH	P	S	1351	ACSR	1		1	1	7801	Gulf Power Company		100	Greenwood-Shipyard	Upgrade	Reliability			
2011	US	SERC	SERC-SE	AC	100-120	100-120	251	12	2013	Marianna	Highland City	0 OH	P	C	1033	ACSR	1		1	1	7801	Gulf Power Company		100	Marianna-Highland City	Upgrade	Reliability			
2011	US	SERC	SERC-SE	AC	100-120	100-120	155	10	2012	Milligan Tap	Milligan	1 OH	P	C	477	ACSR	1		1	1	7801	Gulf Power Company		100	Milligan Tap-Milligan	Planned	Reliability			
2011	US	SERC	SERC-SE	AC	100-120	100-120	320	6	2015	Sinai Cemetery	Woodruff Tap	0 OH	P	C	1351	ACSR	1		1	1	7801	Gulf Power Company		80	Sinai Cemetery-Woodruff Tap	Upgrade	Reliability			
2011	US	SERC	SERC-SE	AC	100-120	100-120	155	12	2013	South Crestview	Airport	5 OH	P	C	477	ACSR	1		1	1	7801	Gulf Power Company		100	South Crestview-Airport	Planned	Reliability			
2011	US	SERC	SERC-SE	AC	200-299	200-299	907	6	2021	North Brewton	Crist SP	56 OH	O	U	1351	OT	1		1	1	7801	Gulf Power Company	Municipal Electric Authority of Georgia	70	North Brewton-Crist SP	Planned	Reliability			
2011	US	SERC	SERC-SE	AC	100-120	100-120	124	10	2013	Cairo # 1	Brumbley Creek	4.05 OH	O	U	336	ACSR	1		1	1	13100			100	Cairo #1 to Brumbley Creek	Conceptual	Reliability			

Table 6. Proposed high-voltage transmission line additions filed covering calendar Year 2011, by North American Electric Reliability Corporation, 2012 through 2021 (cont.)

	Geographic Area			Voltage		Capacity		In-Service		Electrical Connection		Locations		Line Information				Conductor Characteristics		Circuits			Company Information				Project Information			
Data Year	Country	NERC Region	NERC Sub-region	Type	Operating (kV)	Design (kV)	Rating (MVA)	Month	Year	From Terminal	To Terminal	Length (Miles)	Type	Pole Type	Pole Material	Size (MCM)	Material	Bundling Arrange-ment	Present	Ultimate	Company Code	Company Name	Organizational Type	Ownership (Percent)	Project Name	Level of Certainty	Primary Driver 1	Primary Driver 2		
2011	US	SERC	SERC-SE	AC	100-120	100-120	124	10	2014	Elberton #1	Elberton #2	2.6	OH	O	U	336	ACSR	1		1	1	13100	Municipal Electric Authority of Georgia		100	Elberton #1 to Elberton #2	Conceptual	Reliability		
2011	US	SERC	SERC-SE	AC	100-120	100-120	124	10	2014	Griffin #1	Griffin #2	1.6	OH	O	U	336	ACSR	1		1	1	13100	Municipal Electric Authority of Georgia		100	Griffin #1 to Griffin #2	Conceptual	Reliability		
2011	US	SERC	SERC-SE	AC	100-120	100-120	255	6	2015	Alcovy Road	SKC	0	OH	O	U	1033	ACSR	1		1	1	13100	Municipal Electric Authority of Georgia		100	Alcovy Road to SKC	Upgrade	Reliability		
2011	US	SERC	SERC-SE	AC	100-120	100-120	216	6	2015	Mitchell	Lester	0	OH	O	U	795	ACSR	1		1	1	13100	Municipal Electric Authority of Georgia		100	Mitchell - Moultrie	Upgrade	Reliability		
2011	US	SERC	SERC-SE	AC	100-120	100-120	218	7	2012	McIntosh Sw	McIntosh South	1.5	OH	O	U	556.5	ACSR	1		1	1	189	PowerSouth Energy Cooperative		100	McIntosh Sw to McIntosh South	Planned	Other	Other	
2011	US	SERC	SERC-SE	AC	200-299	200-299	807	6	2016	Fortson	Talbot County #1	0	OH	O	U	1351	AL	1		1	1	13100	Municipal Electric Authority of Georgia		100	Fortson to Talbot County #1	Upgrade	Reliability		
2011	US	SERC	SERC-SE	AC	100-120	100-120	216	6	2021	Athena	Union Point	0	OH	O	U	795	ACSR	1		1	1	13100	Municipal Electric Authority of Georgia		100	Athena to Union Point	Upgrade	Reliability		
2011	US	SERC	SERC-SE	AC	100-120	100-120	216	6	2021	Albany #2	Slappy Drive	0	OH	O	U	795	ACSR	1		1	1	13100	Municipal Electric Authority of Georgia		100	Palmyra - Slappy Dr 115kV Line	Upgrade	Reliability		
2011	US	SERC	SERC-SE	AC	100-120	100-120	216	6	2015	Bonaire	Peach Blossom	0	OH	H	W	795	ACSR	1		1	1	7140	Georgia Power Company		100	Bonaire-Peach Blossom	Upgrade	Reliability		
2011	US	SERC	SERC-SE	AC	100-120	100-120	255	6	2014	Bowen	Cartersville	0	OH	P	W	1033	ACSR	1		1	1	7140	Georgia Power Company		100	Bowen-Cartersville	Upgrade	Reliability		
2011	US	SERC	SERC-SE	AC	100-120	100-120	216	6	2021	Cherokee Rd	Ujunion Point	0	OH	P	S	795	ACSR	1		1	1	7140	Georgia Power Company		100	Cherokee Rd-Ujunion Point	Upgrade	Reliability		
2011	US	SERC	SERC-SE	AC	100-120	100-120	124	6	2016	Deal Branch	Sylvania	0	OH	P	S	336	ACSR	1		1	1	7140	Georgia Power Company		100	Deal Branch-Sylvania	Upgrade	Reliability		
2011	US	SERC	SERC-SE	AC	200-299	200-299	602	5	2019	Doublas/Lakeland	Pine Grove	15	OH	O	U	1351	ACSR	1		1	1	7140	Georgia Power Company		100	Doublas/Lakeland-Pine Grove	Planned	Reliability		
2011	US	SERC	SERC-SE	AC	100-120	100-120	207	6	2021	Douglasville	Factory Shoals/Groover	0	OH	P	W	762	ACSR	1		1	1	7140	Georgia Power Company		100	Douglasville-Factory Shoals/Groover	Upgrade	Reliability		
2011	US	SERC	SERC-SE	AC	100-120	100-120	255	6	2021	Douglasville	Post Road/Aneewakee	0	OH	H	W	1033	ACSR	1		1	1	7140	Georgia Power Company		100	Douglasville-Post Road/Aneewakee	Upgrade	Reliability		
2011	US	SERC	SERC-SE	AC	200-299	200-299	596	5	2018	East Point	Camp Creek	0	OH	T	S	1351	ACSR	1		1	1	7140	Georgia Power Company		100	East Point-Camp Creek	Upgrade	Reliability		
2011	US	SERC	SERC-SE	AC	100-120	100-120	199	6	2015	First Avenue	Victory Drive	0	OH	H	S	1033	OT	1		1	1	7140	Georgia Power Company		100	First Avenue-Victory Drive	Upgrade	Reliability		
2011	US	SERC	SERC-SE	AC	200-299	200-299	433	6	2016	Fortson	Talbot #2	0	OH	H	S	795	OT	1		1	1	7140	Georgia Power Company		100	Fortson-Talbot #2	Upgrade	Reliability		
2011	US	SERC	SERC-SE	AC	200-299	200-299	807	6	2015	Franklin Jct	Mulberry Jct	14	OH	H	S	1351	OT	1		1	1	7140	Georgia Power Company		100	Franklin Jct-Mulberry Jct	Planned	Reliability		
2011	US	SERC	SERC-SE	AC	100-120	100-120	216	6	2019	Hickory Level	W Villa Rica	0	OH	P	W	795	ACSR	1		1	1	7140	Georgia Power Company		100	Hickory Level-W Villa Rica	Upgrade	Reliability		
2011	US	SERC	SERC-SE	AC	100-120	100-120	216	6	2013	Leach Road	Bark Camp	0	OH	P	S	795	ACSR	1		1	1	7140	Georgia Power Company		100	Leach Road-Bark Camp	Upgrade	Reliability		
2011	US	SERC	SERC-SE	AC	100-120	100-120	216	6	2018	Ludowici Pri	West Brunswick	0	OH	H	S	795	ACSR	2		1	1	7140	Georgia Power Company		100	Ludowici Pri-West Brunswick	Upgrade	Reliability		
2011	US	SERC	SERC-SE	AC	100-120	100-120	269	6	2021	Marietta/Roswell Rd.	Marietta #4	0	OH	P	W	1351	ACSR	1		1	1	7140	Georgia Power Company		100	Marietta/Roswell Rd.-Marietta #4	Upgrade	Reliability		
2011	US	SERC	SERC-SE	AC	100-120	100-120	301	6	2016	McIntosh	Jasper	0	OH	H	S	1351	ACSR	2		1	1	7140	Georgia Power Company		100	McIntosh-Jasper	Upgrade	Reliability		
2011	US	SERC	SERC-SE	AC	100-120	100-120	255	6	2018	Meldrim	River	0	OH	H	S	1033	ACSR	2		1	1	7140	Georgia Power Company		100	Meldrim-River	Upgrade	Reliability		
2011	US	SERC	SERC-SE	AC	100-120	100-120	216	6	2016	Statesboro Pri	Langston	0	OH	H	S	795	ACSR	2		1	1	7140	Georgia Power Company		100	Statesboro Pri-Langston	Upgrade	Reliability		
2011	US	SERC	SERC-SE	AC	200-299	200-299	1205	6	2018	Thalmann	West Brunswick	0	OH	H	S	1351	ACSR	2		1	1	7140	Georgia Power Company		100	Thalmann-West Brunswick	Upgrade	Reliability		
2011	US	SERC	SERC-SE	AC	100-120	100-120	216	6	2019	Thalmann SS J	Cypress Point	0	OH	P	W	795	ACSR	1		1	1	7140	Georgia Power Company		100	Thalmann SS J-Cypress Point	Upgrade	Reliability		
2011	US	SERC	SERC-SE	AC	200-299	200-299	602	6	2021	Arnold Mill	Hopewell	12	OH	P	U	1351	ACSR	1		0	1	7197	Georgia Transmission Corporation		100	Arnold Mill - Hopewell	Planned	Reliability		
2011	US	SERC	SERC-SE	AC	100-120	100-120	216	6	2021	Danial Siding	Riceboro	0	OH	O	B	795	ACSR	1		1	1	7197	Georgia Transmission Corporation		100	Danial Siding - Riceboro	Upgrade	Reliability		
2011	US	SERC	SERC-SE	AC	100-120	100-120	255	6	2020	South Acworth	Woodstock	0	OH	P	B	1033	ACSR	1		1	1	7197	Georgia Transmission Corporation		100	South Acworth - Woodstock	Upgrade	Reliability		

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	Geographic Area			Voltage		Capacity		In-Service		Electrical Connection		Locations		Line Information				Conductor Characteristics		Circuits		Company Information				Project Information			
Data Year	Country	NERC Region	NERC Sub-region	Type	Operating (kV)	Design (kV)	Rating (MVA)	Month	Year	From Terminal	To Terminal	Length (Miles)	Type	Pole Type	Pole Material	Size (MCM)	Material	Bundling Arrange-ment	Present	Ultimate	Company Code	Company Name	Organizational Type	Ownership (Percent)	Project Name	Level of Certainty	Primary Driver 1	Primary Driver 2	
2011	US	SERC	SERC-SE	AC	100-120	100-120	255	6	2017	Lassiter Road	North Marietta	0	OH	P	S	1033	ACSR	1		1	1	7197	Georgia Transmission Corporation		100	Lassiter Road - North Marietta	Upgrade	Reliability	
2011	US	SERC	SERC-W	AC	200-299	200-299	829	9	2012	Labbe	Sellers Road	15	OH	O	B	1590	AL	1		1	1		Entergy		100	Acadiana Area Improvement Project - Phase 2	Under Construction	Reliability	
2011	US	SERC	SERC-W	AC	100-120	100-120	276	5	2012	Walnut Grove	Swartz	0	OH	P	S	1590	ACSR	1		1	1		Entergy		100	Upgrade walnut Grove - Swartz	Upgrade	Reliability	
2011	US	SERC	SERC-W	AC	100-120	100-120	259	6	2012	Bastrop	Log Cabin	0	OH	P	S	1272	ACSR	1		1	1		Entergy		100	Upgrade Sterlington to Log Cabin 115 kV line	Upgrade	Reliability	
2011	US	SERC	SERC-W	AC	100-120	100-120	178	6	2012	North Bastrop	Log Cabin	0	OH	P	S	1272	ACSR	1		1	1		Entergy		100	upgrade North Bastrop - Log Cabin	Upgrade	Reliability	
2011	US	SERC	SERC-W	AC	200-299	200-299	500	6	2012	Tillatoba	South Grenada	19	OH	P	B	1272	ACSR	1		2	2		Entergy		100	Tillatoba-South Grenada	Under Construction	Reliability	
2011	US	SERC	SERC-W	AC	100-120	100-120	231	6	2012	Lakeover	Northpark	0	OH	P	S	1272	ACSR	1		2	2		Entergy		100	Lakeover- Northpark	Upgrade	Reliability	
2011	US	SERC	SERC-W	AC	121-150	121-150	478	6	2013	Cedar Hill	Plantation	0	OH	H	S	954	ACSR	2		1	2		Entergy		100	Cedar Hill- Plantation	Upgrade	Reliability	
2011	US	SERC	SERC-W	AC	121-150	121-150	478	6	2013	Plantation	Conroe	0	OH	H	S	954	ACSR	2		1	2		Entergy		100	Plantation- Conroe	Upgrade	Reliability	
2011	US	SERC	SERC-W	AC	121-150	121-150	275	6	2013	Jasper	Sam Rayburn Dam	0	OH	P	S	336	ACSR	2		1	1		Entergy		100	Jasper-Sam Rayburn Dam	Upgrade	Reliability	
2011	US	SERC	SERC-W	AC	100-120	100-120	360	3	2012	Snakefarm	Kenner	0	OH	P	S	716	ACCR	1		1	1		Entergy		100	Snakefarm - Kenner Upgrade Line	Upgrade	Reliability	
2011	US	SERC	SERC-W	AC	200-299	200-299	515	6	2012	Oakville	Alliance	10	OH	P	S	1272	ACSR	1		1	1		Entergy		100	Southeast LA Coastal Improvement Plan: Phase 3	Planned	Reliability	
2011	US	SERC	SERC-W	AC	200-299	200-299	520	6	2018	Bayou Steel	Tezcuco	10	OH	P	S	172	ACSR	1		1	1		Entergy		100	Iron Man to Tezcuco 230 kV line - Construct new line	Planned	Reliability	
2011	US	SERC	SERC-W	AC	100-120	200-299	260	6	2013	Springridge Rd	Wynndale	25	OH	P	B	1272	ACSR	1		1	1		Entergy		100	Springridge Rd- Wynndale	Planned	Reliability	
2011	US	SERC	SERC-W	AC	200-299	200-299	520	6	2013	Church Rd	Getwell	16	OH	P	B	1272	ACSR	1		1	1		Entergy		100	Church Rd- Getwell	Planned	Reliability	
2011	US	SERC	SERC-W	AC	200-299	200-299	520	6	2016	Getwell	Senatobia Industrial	26	OH	P	B	1272	ACSR	1		1	1		Entergy		100	Getwell- Senatobia Industrial	Conceptual	Reliability	
2011	US	SERC	SERC-W	AC	151-199	151-199	558	6	2012	Holland Bottoms	Hamlet	20	OH	O	U	1572	OT	1		1	1		Entergy		100	Holland Bottoms- Hamlet	Under Construction	Reliability	
2011	US	SERC	SERC-W	AC	151-199	151-199	246	6	2012	Jonesboro	Hergett	0	OH	O	U	666	ACSR	1		1	1		Entergy		50	Jonesboro- Hergett	Upgrade	Reliability	
2011	US	SERC	SERC-W	AC	100-120	100-120	175	12	2012	Benton N	Benton S	6	OH	O	U	666	ACSR	1		1	1		Entergy		100	Benton North- Benton South	Under Construction	Reliability	
2011	US	SERC	SERC-W	AC	100-120	100-120	246	6	2012	Monette	Paragould	0	OH	O	U	666	ACSR	1		1	1		Entergy		100	Westar Transmission Service	Upgrade	Economics or Congestion	
2011	US	SERC	SERC-W	AC	200-299	200-299	779	6	2012	Nelson	Moss Bluff (2)	7	OH	P	B	1272	OT	1		1	1		Entergy		100	Construct new Nelson to Moss Bluff 230 kV line	Planned	Reliability	
2011	US	SERC	SERC-W	AC	100-120	100-120	260	6	2015	HS Hamilton	Carpenter	10	OH	O	U	1272	ACSR	1		1	1		Entergy		100	Hot Springs Hamilton- Bismarck	Planned	Reliability	
2011	US	SERC	SERC-W	AC	100-120	200-299	261	6	2019	Arcadia	Sailes	15	OH	P	B	1272	ACSR	1		1	1		Entergy		100	Arcadia to Sailes - Construct new 230 kV line (operate at 115 kV)	Planned	Reliability	
2011	US	SERC	SERC-W	AC	100-120	200-299	261	6	2019	Mt. Olive	Arcadia	15	OH	P	B	1272	ACSR	1		1	1		Entergy		100	Mt. Olive to Arcadia Project Phase 2	Planned	Reliability	
2011	US	SERC	SERC-W	AC	100-120	100-120	261	6	2013	Oakridge	Dunn	15	OH	P	B	1272	ACSR	1		1	1		Entergy		100	NE Louisiana Improvement Project - Phase 2	Planned	Reliability	
2011	US	SERC	SERC-W	AC	100-120	100-120	239	6	2019	Sterlington	Downsville	0	OH	P	B	336	ACSR	2		1	1		Entergy		100	Sterlington to Downsville 115 kV line	Upgrade	Reliability	
2011	US	SERC	SERC-W	AC	100-120	100-120	262	6	2017	Sterlington	Dunn	0	OH	P	B	1272	ACSR	1		1	1		Entergy		100	Northeast LA Improvement Project Phase 3	Upgrade	Reliability	



Table 6. Proposed high-voltage transmission line additions filed covering calendar Year 2011, by North American Electric Reliability Corporation, 2012 through 2021 (cont.)

	Geographic Area			Voltage		Capacity		In-Service		Electrical Connection		Locations		Line Information				Conductor Characteristics		Circuits		Company Information				Project Information			
Data Year	Country	NERC Region	NERC Sub-region	Type	Operating (kV)	Design (kV)	Rating (MVA)	Month	Year	From Terminal	To Terminal	Length (Miles)	Type	Pole Type	Pole Material	Size (MCM)	Material	Bundling Arrange-ment	Present	Ultimate	Company Code	Company Name	Organizational Type	Ownership (Percent)	Project Name	Level of Certainty	Primary Driver 1	Primary Driver 2	
2011	US	SERC	SERC-W	AC	100-120	100-120	239	6	2013	Golden Meadow	Leeville	0	OH	P	S	1272	ACSR	1		1	1		Entergy		100	Golden Meadow to Leeville 115 kV - Rebuild/relocate	Upgrade	Reliability	
2011	US	SERC	SERC-W	AC	200-299	200-299	519	6	2018	Raceland	Waterford	4	OH	O	U	1272	ACSR	1		1	1		Entergy		100	Raceland	Conceptual	Reliability	
2011	US	SERC	SERC-W	AC	100-120	200-299	239	6	2018	Terrebone	Humphrey	15	OH	P	S	1272	ACSR	1		1	1		Entergy		100	Construct new Terrebone to Greenwood to Humphrey 230 kV line - Operate at 115 kV	Conceptual	Reliability	
2011	US	SERC	SERC-W	AC	100-120	100-120	239	6	2017	Valentine	Clovelly	0	OH	P	S	1272	ACSR	1		1	1		Entergy		100	Valentine to Clovelly 115 kV upgrade	Upgrade	Reliability	
2011	US	SERC	SERC-W	AC	100-120	100-120	231	6	2012	Lakeover	Northpark (2)	12	OH	P	S	1272	ACSR	1		2	2		Entergy		100	Lakeover-Northpark	Under Construction	Reliability	
2011	US	SERC	SERC-W	AC	121-150	121-150	265	6	2018	China	Stowell	18	OH	H	S	954	ACSR	1		1	2		Entergy		100	China-Stowell	Conceptual	Reliability	
2011	US	SERC	SERC-W	AC	200-299	200-299	797	6	2016	China	Amelia (2)	10	OH	T	S	954	ACSR	2		1	2		Entergy		100	China-Amelia	Planned	Reliability	
2011	US	SERC	SERC-W	AC	121-150	121-150	422	6	2013	Eastgate	Dayton Bulk	0	OH	P	S	666	ACSR	2		1	1		Entergy		100	Eastgate-Dayton Bulk	Upgrade	Reliability	
2011	US	SERC	SERC-W	AC	121-150	121-150	422	6	2020	Grimes	Bentwater	0	OH	P	S	666	ACSR	2		1	1		Entergy		100	Grimes-Bentwater	Upgrade	Reliability	
2011	US	SERC	SERC-W	AC	121-150	121-150	339	6	2019	Grimes	Mt. Zion	0	OH	P	S	666	ACSR	2		1	1		Entergy		100	Grimes-Mt. Zion	Upgrade	Reliability	
2011	US	SERC	SERC-W	AC	121-150	121-150	340	6	2020	Mt. Zion	Huntsville	0	OH	P	S	666	ACSR	2		1	1		Entergy		100	Mt. Zion-Huntsville	Upgrade	Reliability	
2011	US	SERC	SERC-W	AC	200-299	200-299	1039	6	2017	Hartburg	Chisholm Road	12	OH	T	S	1272	ACSR	2		1	2		Entergy		100	Hartburg-Chisholm Road	Conceptual	Reliability	
2011	US	SERC	SERC-W	AC	121-150	121-150	422	6	2016	Hickory Ridge	Eastgate	0	OH	P	S	666	ACSR	2		1	1		Entergy		100	Hickory Ridge-Eastgate	Upgrade	Reliability	
2011	US	SERC	SERC-W	AC	200-299	200-299	685	6	2012	McLewis	Helbig	0	OH	H	W	649	AL	2		2	2		Entergy		100	McLewis-Helbig	Upgrade	Reliability	
2011	US	SERC	SERC-W	AC	200-299	200-299	785	6	2018	McLewis	Helbig	0	OH	H	S	1222	OT	1		2	2		Entergy		100	McLewis-Helbig	Upgrade	Reliability	
2011	US	SERC	SERC-W	AC	121-150	121-150	422	12	2017	Sabine	Port Neches Bulk	0	OH	T	S	666	ACSR	2		2	2		Entergy		100	Sabine-Port Neches Bulk	Upgrade	Reliability	
2011	US	SERC	SERC-W	AC	121-150	121-150	422	12	2018	Sabine	Linde	0	OH	T	S	666	ACSR	2		2	2		Entergy		100	Sabine-Linde	Upgrade	Reliability	
2011	US	SERC	SERC-W	AC	121-150	121-150	478	6	2016	Splendora	Apollo	0	OH	H	S	954	ACSR	2		1	2		Entergy		100	Splendora-Apollo	Upgrade	Reliability	
2011	US	SERC	SERC-W	AC	121-150	121-150	265	6	2013	Toledo Bend	Newton Bulk	0	OH	P	S	954	ACSR	1		1	1		Entergy		100	Toledo Bend-Newton Bulk	Upgrade	Reliability	
2011	US	SERC	SERC-W	AC	400-599	400-599	2598	3	2012	West Memphis	Birmingham Steel	0	OH	T	S	954	ACSR	3		1	1		Entergy		20	West Memphis - Birmingham Steel	Upgrade	Economics or Congestion	
2011	US	SERC	SERC-W	AC	400-599	400-599	2598	6	2014	Sheridan	Mabelvale	0	OH	T	S	954	ACSR	3		1	1		Entergy		100	Sheridan South 500 kV FG Upgrade	Upgrade	Economics or Congestion	
2011	US	SERC	SERC-W	AC	400-599	400-599	2598	6	2014	Sheridan	White Bluff	0	OH	T	S	954	ACSR	3		1	1		Entergy		100	Sheridan South 500 kV FG Upgrade	Upgrade	Economics or Congestion	
2011	US	SERC	SERC-W	AC	400-599	400-599	2598	6	2014	Sheridan	El Dorado	0	OH	T	S	954	ACSR	3		1	1		Entergy		100	Sheridan South 500 kV FG Upgrade	Upgrade	Economics or Congestion	
2011	US	SERC	SERC-W	AC	200-299	200-299	532	6	2015	White Bluff	PB Arsenal D	0	OH	T	S	1590	ACSR	1		2	2		Entergy		100	Pine Bluff Voltage Support	Planned	Reliability	
2011	US	SERC	SERC-W	AC	200-299	200-299	532	6	2015	Woodward	PB Arsenal D	0	OH	T	S	1590	ACSR	1		2	2		Entergy		100	Pine Bluff Voltage Support	Planned	Reliability	
2011	US	SERC	SERC-W	AC	151-199	151-199	364	6	2017	Doniphan	Datto	15	OH	P	C	1272	ACSR	1		1	1		Entergy		50	Jim Hill Area Upgrades	Planned	Reliability	
2011	US	SERC	SERC-W	AC	151-199	151-199	335	6	2016	Trumann	Trumann West	0	OH	P	B	1272	ACSR	1		1	1		Entergy		100	Trumann-Trumann West - Upgrade line	Upgrade	Reliability	
2011	US	SERC	SERC-W	AC	151-199	151-199	335	6	2016	Calico Rock	Norfork	0	OH	P	B	1272	ACSR	1		1	1		Entergy		100	Norfork-Calico Rock : Upgrade 161 kV Line	Upgrade	Reliability	
2011	US	SERC	SERC-W	AC	100-120	100-120	239	6	2013	NLR Westgate	NLR Levy	0	OH	P	B	1272	ACSR	1		1	1		Entergy		100	NLR Westgate - NLR Levy: Reconductor 115 kV Line	Upgrade	Reliability	

Table 6. Proposed high-voltage transmission line additions filed covering calendar Year 2011, by North American Electric Reliability Corporation, 2012 through 2021 (cont.)

	Geographic Area			Voltage		Capacity		In-Service		Electrical Connection		Locations		Line Information		Conductor Characteristics			Circuits		Company Information				Project Information				
Data Year	Country	NERC Region	NERC Sub-region	Type	Operating (kV)	Design (kV)	Rating (MVA)	Month	Year	From Terminal	To Terminal	Length (Miles)	Type	Pole Type	Pole Material	Size (MCM)	Material	Bundling Arrange-ment	Present	Ultimate	Company Code	Company Name	Organizational Type	Ownership (Percent)	Project Name	Level of Certainty	Primary Driver 1	Primary Driver 2	
2011	US	SERC	SERC-W	AC	100-120	100-120	260	6	2016	L&D #2	Gillett	30	OH	P	B	1272	ACSR	1		1	1		Entergy		100	AECC L&D 2 to Gillett: Construct new 115 kV Line	Planned	Reliability	
2011	US	SERC	SERC-W	AC	151-199	151-199	335	12	2014	Calico Rock	Melbourne	0	OH	P	B	1272	ACSR	1		1	1		Entergy		100	Calico Rock-Melbourne - Upgrade 161 kV line	Upgrade	Reliability	
2011	US	SERC	SERC-W	AC	100-120	100-120	319	6	2015	Woodward	Pine Bluff West	0	OH	P	B	1272	OT	1		1	1		Entergy		100	Woodward - Pine Bluff West - Pine Bluff McCamant: Reconductor 115	Upgrade	Reliability	
2011	US	SERC	SERC-W	AC	100-120	100-120	319	6	2015	PB McCamant	Pine Bluff West	0	OH	P	B	1272	OT	1		1	1		Entergy		100	Woodward - Pine Bluff West - Pine Bluff McCamant: Reconductor 115 kV	Upgrade	Reliability	
2011	US	SERC	SERC-W	AC	100-120	100-120	260	6	2014	Camden McGuire	Camden N	4	OH	P	B	1272	ACSR	1		1	1		Entergy		100	Camden McGuire - Camden North 115 KV Line: Construct New Line	Planned	Reliability	
2011	US	SERC	SERC-W	AC	100-120	200-299	260	6	2014	LV Bagby	Reed S	260	OH	P	B	1272	ACSR	1		1	1		Entergy		100	LV Bagby to Reed: Construct new 230 kV line and operate at 115 kV	Planned	Reliability	
2011	US	SERC	SERC-W	AC	100-120	100-120	239	6	2015	HS EHV	HS Industrial	0	OH	O	U	0	OT	OT		1	1		Entergy		100	HS EHV - HS Industrial: Upgrade Terminal Equipment	Upgrade	Reliability	
2011	US	SERC	SERC-W	AC	100-120	100-120	239	6	2015	HS Industrial	HS Union Carbide	0	OH	O	U	0	OT	OT		1	1		Entergy		100	HS Union Carbide: Upgrade Terminal Equipment	Upgrade	Reliability	
2011	US	SERC	SERC-W	AC	100-120	100-120	239	6	2015	HS Union Carbide	HS East	0	OH	O	U	0	OT	OT		1	1		Entergy		100	HS Union Carbide - HS East: Upgrade Terminal Equipment	Upgrade	Reliability	
2011	US	SERC	SERC-W	AC	100-120	100-120	390	6	2014	Woodward	PB Watson Chapel	0	OH	P	B	1271	OT	1		1	1		Entergy		100	Woodward to Pine Bluff Watson Chapel: Reconductor Line	Upgrade	Reliability	
2011	US	SERC	SERC-W	AC	100-120	100-120	390	6	2017	Arklahoma	HS EHV (2)	0	OH	P	B	1272	OT	1		1	1		Entergy		100	Reconductor Arklahoma No. 2 to HS EHV East	Upgrade	Reliability	
2011	US	SERC	SERC-W	AC	100-120	100-120	390	6	2017	Aklahoma	HS EHV	0	OH	P	B	1272	OT	1		1	1		Entergy		100	Reconductor Arklahoma No. 1 to HS EHV West	Upgrade	Reliability	
2011	US	SERC	SERC-W	AC	151-199	151-199	223	12	2017	Quitman	Bee Branch	0	OH	P	B	0	OT	OT		1	1		Entergy		100	Quitman to Bee Branch: Reconductor Line	Upgrade	Reliability	
2011	US	SERC	SERC-W	AC	100-120	100-120	266	6	2018	Mabelvale	LR Kanis	0	OH	P	C	0	OT	OT		1	1		Entergy		100	Mabelvale - LR Kanis 115 kV Reconstructor	Upgrade	Reliability	
2011	US	SERC	SERC-W	AC	100-120	100-120	398	6	2019	Mayflower	Morgan	0	OH	P	C	1590	OT	1		1	1		Entergy		100	Mayflower - Morgan 115 kV Line: Upgrade	Upgrade	Reliability	
2011	US	SERC	SERC-W	AC	100-120	151-199	398	6	2018	Holland Bottoms	Jacksonville N	0	OH	P	B	1590	OT	1		1	1		Entergy		100	Holland Bottoms - Jacksonville North: Reconductor 115 kV Line	Upgrade	Reliability	
2011	US	SERC	SERC-W	AC	151-199	151-199	446	6	2018	Russellville East	Russellville North	0	OH	P	B	1272	OT	1		1	1		Entergy		100	Russellville East-Russellville North: Reconductor 161kV Line	Upgrade	Reliability	
2011	US	SERC	SERC-W	AC	100-120	100-120	239	6	2018	LR West	LR Palm	0	OH	P	B	1272	OT	1		1	1		Entergy		100	LR West - LR Palm: Reconductor 115 kV Line	Upgrade	Reliability	
2011	US	SERC	SERC-W	AC	100-120	100-120	255	6	2018	NLR Westgate	LR Gaines	0	OH	P	B	1272	OT	1		1	1		Entergy		100	NLR Westgate - LR Gaines: Reconductor 115 kV Line	Upgrade	Reliability	

Table 6. Proposed high-voltage transmission line additions filed covering calendar Year 2011, by North American Electric Reliability Corporation, 2012 through 2021 (cont.)

	Geographic Area			Voltage		Capacity		In-Service		Electrical Connection		Locations		Line Information				Conductor Characteristics			Circuits		Company Information				Project Information			
Data Year	Country	NERC Region	NERC Sub-region	Type	Operating (kV)	Design (kV)	Rating (MVA)	Month	Year	From Terminal	To Terminal	Length (Miles)	Type	Pole Type	Pole Material	Size (MCM)	Material	Bundling Arrange-ment	Present	Ultimate	Company Code	Company Name	Organizational Type	Ownership (Percent)	Project Name	Level of Certainty	Primary Driver 1	Primary Driver 2		
2011	US	SERC	SERC-W	AC	100-120	100-120	239	6	2018	Cheetah	HS Village	0 OH	P	B	1272	ACSR	1		1 1		Entergy		100		Upgrade Cheetah to Hot Springs Village 115 kV line	Upgrade	Reliability			
2011	US	SERC	SERC-W	AC	100-120	100-120	319	6	2018	LR Kanis	LR Markham	0 OH	O	U	0	OT	OT		1 1		Entergy		100		LR Kanis to LR Markham: Reconductor line	Upgrade	Reliability			
2011	US	SERC	SERC-W	AC	100-120	100-120	260	6	2018	Gum Springs	Amity	40 OH	P	B	1272	ACSR	1		1 1		Entergy		100		Gum Springs to Amity construct new line. Add breakers at Amity	Conceptual	Reliability			
2011	US	SERC	SERC-W	AC	151-199	151-199	546	6	2020	Jonesboro	Jonesboro SPA	0 OH	P	B	1272	OT	1		1 1		Entergy		100		Jonesboro to Jonesboro SPA reconductor line	Upgrade	Reliability			
2011	US	SERC	SERC-W	AC	100-120	100-120	260	6	2015	Baxter Wilson	S.E. Vicksburg	0 OH	O	U	1272	ACSR	1		1 1		Entergy		100		Baxter Wilson-S.E. Vicksburg	Upgrade	Reliability			
2011	US	SERC	SERC-W	AC	100-120	200-299	398	6	2017	Franklin	McComb	24 OH	O	U	954	ACSR	2		1 1		Entergy		100		Franklin-McComb	Planned	Reliability			
2011	US	SERC	SERC-W	AC	100-120	100-120	199	6	2017	McComb	Tylertown	0 OH	H	W	666	ACSR	1		1 1		Entergy		100		McComb-Tylertown	Upgrade	Reliability			
2011	US	SERC	SERC-W	AC	100-120	100-120	108	6	2015	Murphy Tap	Belzoni Tap	7.62 OH	O	U	336	ACSR	1		1 1		Entergy		100		Murphy Tap-Belzoni Tap	Planned	Reliability			
2011	US	SERC	SERC-W	AC	121-150	121-150	478	6	2015	Jacinto	Splendora	0 OH	H	S	954	ACSR	2		1 2		Entergy		100		Jacinto-Splendora	Upgrade	Reliability			
2011	US	SERC	SERC-W	AC	121-150	121-150	478	6	2017	Jacinto	Cleveland	0 OH	H	S	954	ACSR	2		1 2		Entergy		100		Jacinto-Cleveland	Upgrade	Reliability			
2011	US	SERC	SERC-W	AC	121-150	121-150	265	6	2017	Toledo Bend	Leach	0 OH	P	S	954	ACSR	1		1 1		Entergy		100		Toledo Bend-Leach	Upgrade	Reliability			
2011	US	SERC	SERC-W	AC	121-150	121-150	287	6	2018	Leach	Newton Bulk	0 OH	P	S	336.4	ACSR	1		1 1		Entergy		100		Leach-Newton Bulk	Upgrade	Reliability			
2011	US	SERC	SERC-W	AC	200-299	200-299	685	6	2017	Sabine	Big Three	0 OH	T	S	649	AL	2		1 1		Entergy		100		Sabine-Big Three	Upgrade	Reliability			
2011	US	SERC	SERC-W	AC	121-150	121-150	287	6	2020	Buna	Evadale	0 OH	P	S	336.4	ACSR	1		1 1		Entergy		100		Buna-Evadale	Upgrade	Reliability			
2011	US	SERC	SERC-W	AC	121-150	121-150	287	6	2020	Rayburn	Mill Creek	0 OH	P	S	336.4	ACSR	1		1 1		Entergy		100		Rayburn-Mill Creek	Upgrade	Reliability			
2011	US	SERC	SERC-W	AC	121-150	121-150	286	6	2021	Porter	Apollo	0 OH	O	S	649	ACSR	1		1 1		Entergy		100		Porter-Apollo	Upgrade	Reliability			
2011	US	SERC	SERC-W	AC	121-150	121-150	478	6	2022	New Caney	Hickory Ridge	0 OH	O	S	954	ACSR	1		1 1		Entergy		100		New Caney-Hickory Ridge	Upgrade	Reliability			
2011	US	SERC	SERC-W	AC	200-299	200-299	785	6	2021	Amelia Bulk	Helbig	0 OH	P	S	649	ACSR	2		1 1		Entergy		100		Amelia Bulk-Helbig	Upgrade	Reliability			
2011	US	SERC	SERC-W	AC	200-299	200-299	685	6	2018	Gulfway	VFW Park	0 OH	H	S	649	AL	2		1 1		Entergy		100		Gulfway-VFW Park	Upgrade	Reliability			
2011	US	SERC	SERC-W	AC	121-150	121-150	251	6	2017	Moril	Delcambre	0 OH	O	U	0	OT	OT		0 0		Entergy		100		Moril-Delcambre	Upgrade	Reliability			
2011	US	SERC	SERC-W	AC	400-599	400-599	1732	3	2012	Willow Glen	Webre	0 OH	O	U	0	OT	OT		0 0		Entergy		100		Willow Glen-Webre	Upgrade	Reliability			
2011	US	SERC	SERC-W	AC	121-150	121-150	250	6	2013	Bloomfield	Bosco	4 OH	P	C	0	OT	1		1 1		Entergy		100		Bloomfield-Bosco	Planned	Reliability			
2011	US	SERC	SERC-W	AC	121-150	121-150	225	6	2019	Bloomfield	Colton	3 OH	O	U	336.4	ACSR	2		1 1		Entergy		100		Bloomfield-Colton	Conceptual	Reliability			
2011	US	SERC	SERC-W	AC	121-150	121-150	381	6	2013	Moril	Hopkins	0 OH	O	U	954	OT	1		0 0		Entergy		50		Moril-Hopkins	Upgrade	Reliability			
2011	US	SERC	SERC-W	AC	121-150	121-150	287	6	2013	Champagne	Plaisance	0 OH	O	U	0	OT	OT		0 0		Entergy		100		Champagne-Plaisance	Upgrade	Reliability			
2011	US	SERC	SERC-W	AC	121-150	121-150	260	6	2014	Gonzales	Sorrento	0 OH	O	U	954	ACSR	1		0 0		Entergy		100		Gonzales-Sorrento	Upgrade	Reliability			
2011	US	SPP RE	SPP	AC	200-299	230	452	6	2012	Hitchland	Moore County	50 OH	H	W	795	ACSR	1		1 1		17718	SWPS	I	100	Hitchland Project	Planned	Reliability			
2011	US	SPP RE	SPP	AC	100-120	230	146	6	2012	Channing	Potter County	70 OH	H	W	795	ACSR	1		1 1		17718	SWPS	I	100	Channing Project	Planned	Reliability			
2011	US	SPP RE	SPP	AC	100-120	115	146	12	2012	Johnson Draw	Amfrac/Mapco	0.1 OH	P	S	397	ACSR	1		1 1		17718	SWPS	I	100	Johnson Draw	Planned	Reliability			
2011	US	SPP RE	SPP	AC	100-120	115	164	12	2012	Johnson Draw	Gaines	4.8 OH	P	S	477	ACSR	1		2 2		17718	SWPS	I	100	Johnson Draw	Planned	Reliability			
2011	US	SPP RE	SPP	AC	100-120	115	164	12	2012	Taylor Switch	Johnson Draw	4.75 OH	P	S	477	ACSR	1		2 2		17718	SWPS	I	100	Johnson Draw	Planned	Reliability			
2011	US	SPP RE	SPP	AC	100-120	115	146	12	2012	Higg	Johnson Draw	0.13 OH	P	S	397	ACSR	1		1 1		17718	SWPS	I	100	Johnson Draw	Planned	Reliability			
2011	US	SPP RE	SPP	AC	200-299	230	452	12	2012	Hitchland	Ochiltree Intg.	32 OH	H	W	795	ACSR	1		1 1		17718	SWPS	I	100	Hitchland - Ochiltree Project	Planned	Reliability			
2011	US	SPP RE	SPP	AC	100-120	115	146	3	2012	Pecos	Ocotillo	5.813 OH	P	S	397	ACSR	1		1 1		17718	SWPS	I	100	Carlsbad Ocotillo	Planned	Reliability			

Table 6. Proposed high-voltage transmission line additions filed covering calendar Year 2011, by North American Electric Reliability Corporation, 2012 through 2021 (cont.)

	Geographic Area			Voltage		Capacity		In-Service		Electrical Connection		Locations		Line Information				Conductor Characteristics			Circuits		Company Information				Project Information			
Data Year	Country	NERC Region	NERC Sub-region	Type	Operating (kV)	Design (kV)	Rating (MVA)	Month	Year	From Terminal	To Terminal	Length (Miles)	Type	Pole Type	Pole Material	Size (MCM)	Material	Bundling Arrangement	Present	Ultimate	Company Code	Company Name	Organizational Type	Ownership (Percent)	Project Name	Level of Certainty	Primary Driver 1	Primary Driver 2		
2011	US	SPP RE	SPP	AC	100-120	115	372	5	2012	57th & Garland	84th & Leighton	0 OH	P	S	2-397	ACSR	2		1 1	11018	Lincoln Electric System	M	100	Leighton Area Reliability Project	Upgrade	Reliability				
2011	US	SPP RE	SPP	AC	100-120	115	95	9	2012	Broken Bow	Broken Bow Wind	9 OH	P	W	T2-336	ACSR	1		1 1	13337	NPPD	S	100	Broken Bow to Broken Bow Wind	Under Construction	Variable/Renewable Integration				
2011	US	SPP RE	SPP	AC	121-150	138	183	12	2012	OU Switchyard	Canadian Switchyard	11 OH	H	W	795	ACSR	1		1 1		WFEC		100	OU SW to Canadian SW 138kV	Under Construction	Reliability	Economics or Congestion			
2011	US	SPP RE	SPP	AC	100-120	115	146	12	2012	Roswell Intg	Capitan Substation	5.7 OH	H	W	397	ACSR	1		1 1	17718	SWPS	I	100	Roswell-Capitan	Planned	Reliability				
2011	US	SPP RE	SPP	AC	300-399	345	1793	12	2012	Sooner	Cleveland	35.2 OH	H	S	1590	ACSR	2		1 1		OG&E	I	100	Sooner to Cleveland	Under Construction	Reliability	Reliability			
2011	US	SPP RE	SPP	AC	100-120	115	146	12	2012	Pleasant Hill	Curry County	1.5 OH	H	W	397	ACSR	1		1 1	17718	SWPS	I	100	East Clovis Conversion	Planned	Reliability				
2011	US	SPP RE	SPP	AC	121-150	138	212	12	2012	Anadarko SW	Georgia Tap	5 OH	H	W	1113	ACSR	1		1 1		WFEC		100	Anadarko SW 138 kV	Under Construction	Reliability	Reliability			
2011	US	SPP RE	SPP	AC	300-399	345	1793	4	2012	Sunnyside	Hugo	120 OH	H	S	1590	ACSR	2		1 1		OG&E	I	100	Sunnyside to Hugo	Under Construction	Reliability	Reliability			
2011	US	SPP RE	SPP	AC	121-150	138	287	2	2012	Caney Creek	Johnston County	25 OH	P	S	795	ACSR	1		1 1		OG&E	I	100	Johnston County	Under Construction	Reliability	Reliability			
2011	US	SPP RE	SPP	AC	200-299	230	693	2	2012	Bonin	Labbe	1.42 OH	P	S	795	ACSR	2		1 1	50111	Lafayette Utilities System	M	100	ALP	Under Construction	Reliability				
2011	US	SPP RE	SPP	ac	100-120	115		6	2012	Heizer	Mullegren	0.3 oh	H	w		ACSR			1	MIDW	MIDW			Heizer to Mullegren	Planned	Reliability				
2011	US	SPP RE	SPP	AC	100-120	115	262	10	2012	Clay Center Jct	New Clay Center SS	8.8 OH	P	W	1192.5	ACSR	1		1 1	10005	Westar Energy	I	100	Clay Center Jct-New Clay Center 115kV	Under Construction	Reliability				
2011	US	SPP RE	SPP	AC	100-120	115	262	5	2012	KSU-Wildcat	North Manhattan	2 OH	P	S	1192.5	ACSR	1		2 2	10005	Westar Energy	I	100	KSU-North Manhattan-Wildcat 115kV	Under Construction	Reliability				
2011	US	SPP RE	SPP	AC	300-399	345	1336	9	2012	Turk	NW Texarkana	33 OH	P	C	954	ACSR	2		1 1	17698	SOEP	I	100	Turk to NW Texarkana	Under Construction	Reliability				
2011	US	SPP RE	SPP	AC	121-150	138	194	6	2012	Massard	Oak Park	0.5 OH	P	S	477	ACSR	1		1 1		OG&E	I	100	Massard - Oak Park	Under Construction	Reliability				
2011	US	SPP RE	SPP	AC	121-150	138	183	9	2012	Franklin Switchyard	OU Switchyard	22 OH	H	W	795	ACSR	1		1 1		WFEC		100	Franklin SW to OU SW 138kV	Under Construction	Reliability				
2011	US	SPP RE	SPP	AC	300-399	345	1882	6	2012	Rose Hill	Sooner	100 OH	H	S	1590	ACSR	2		1 1	10005	Westar Energy	I	55	Rose Hill-Sooner 345kV	Under Construction	Reliability				
2011	US	SPP RE	SPP	AC	100-120	115	240	12	2012	Twin Church	South Sioux City	11 OH	P	W	T2-477	ACSR	1		1 1	13337	NPPD	S	100	Twin Church to South Sioux City	Under Construction	Reliability				
2011	US	SPP RE	SPP	AC	100-120	115	240	12	2012	Twin Church	South Sioux City	7 OH	P	W	T2-477	ACSR	1		1 1	13337	NPPD	S	100	Twin Church to South Sioux City	Under Construction	Reliability				
2011	US	SPP RE	SPP	AC	100-120	115	180	12	2012	Substation F	St. Libory Junction	7 OH	P	S	336 T2	ACSR			1 1	40606	Grand Island	M	100	GI L1369	Planned	Reliability	Economics / Congestion			
2011	US	SPP RE	SPP	AC	121-150	138	314	10	2012	Gill W	Waco	1.9 OH	P	W	1192.5	ACSR	1		1 1	10005	Westar Energy	I	100	Gill W-Waco 138kV	Under Construction	Reliability				
2011	US	SPP RE	SPP	AC	121-150	138	144	9	2012	Reeding	Twin Lakes Switchyard	7 OH	H	W	556.5	ACSR	1		1 1		WFEC		100	Reeding to Twin Lakes	Under Construction	Reliability				
2011	US	SPP RE	SPP	AC	121-150	138	183	6	2013	Meeker Switchyard	Hammett Substation	10 OH	H	W	795	ACSR	1		1 1		WFEC		100	Meeker to Hammett 138kV	Planned	Reliability				
2011	US	SPP RE	SPP	AC	100-120	115	179	9	2013	17th & Holdrege	21st & N	1.3 UG	U		2000	CU	1		1 1	11018	Lincoln Electric System	M	100	Central Lincoln Reliability Project	Under Construction	Reliability				
2011	US	SPP RE	SPP	AC	100-120	115	121	9	2013	20th & Pioneers	29th & Leighton	0 UG	U		1250	AL	1		1 1	11018	Lincoln Electric System	M	100	Central Lincoln Reliability Project	Retirement	Reliability				
2011	US	SPP RE	SPP	AC	100-120	115	179	9	2013	21st & N	30th & A	1.5 UG	U		2000	CU	1		1 1	11018	Lincoln Electric System	M	100	Central Lincoln Reliability Project	Under Construction	Reliability				
2011	US	SPP RE	SPP	AC	100-120	115	186	9	2013	30th & A	56th & Everett	2.5 OH	P	S	2-397	ACSR	1		1 1	11018	Lincoln Electric System	M	100	Central Lincoln Reliability Project	Under Construction	Reliability				
2011	US	SPP RE	SPP	AC	200-299	230	452	4	2013	Randall County	Amarillo South	8.5 OH	H	S	795	ACSR	1		1 1	17718	SWPS	I	100	Randall County Intg.	Planned	Reliability				
2011	US	SPP RE	SPP	AC	200-299	230	452	4	2013	Harrington	Cherry St. Intg.	5.3 OH	H	W	795	ACSR	1		2 2	17718	SWPS	I	100	Cherry St. Intg.	Planned	Reliability				



Table 6. Proposed high-voltage transmission line additions filed covering calendar Year 2011, by North American Electric Reliability Corporation, 2012 through 2021 (cont.)

	Geographic Area			Voltage		Capacity		In-Service		Electrical Connection		Locations		Line Information				Conductor Characteristics		Circuits		Company Information				Project Information			
Data Year	Country	NERC Region	NERC Sub-region	Type	Operating (kV)	Design (kV)	Rating (MVA)	Month	Year	From Terminal	To Terminal	Length (Miles)	Type	Pole Type	Pole Material	Size (MCM)	Material	Bundling Arrange-ment	Present	Ultimate	Company Code	Company Name	Organizational Type	Ownership (Percent)	Project Name	Level of Certainty	Primary Driver 1	Primary Driver 2	
2011	US	SPP RE	SPP	AC	100-120	115	146	4	2013	Nichols	Cherry St. Intg.	6.38	OH	H	W	397	ACSR	1		1 1	17718	SWPS	I	100	Cherry St. Intg.	Planned	Reliability		
2011	US	SPP RE	SPP	AC	100-120	115	146	4	2013	Cherry St. Intg.	Cherry St. substation	0.1	OH	H	W	397	ACSR	1		1 1	17718	SWPS	I	100	Cherry St. Intg.	Planned	Reliability		
2011	US	SPP RE	SPP	AC	100-120	115	146	6	2013	Pleasant Hill	Curry County	0.2	OH	P	S	397	ACSR	1		1 1	17718	SWPS	I	100	Pleasant Hill	Planned	Reliability		
2011	US	SPP RE	SPP	AC	100-120	115	146	6	2013	Pleasant Hill	Curry County	3	OH	P	S	397	ACSR	1		2 2	17718	SWPS	I	100	Pleasant Hill	Planned	Reliability		
2011	US	SPP RE	SPP	AC	121-150	138	321	6	2013	McAlester City	Dustin	6	OH	P	S	1272	ACSR	1		1 1	15474	PSOK	I	100	McAlester City to Dustin	Planned	Reliability		
2011	US	SPP RE	SPP	AC	100-120	115	146	6	2013	Cherry St. Intg.	Hastings	4	OH	H	W	397	ACSR	1		1 2	17718	SWPS	I	100	Cherry St. Intg.	Planned	Reliability		
2011	US	SPP RE	SPP	AC	100-120	115	146	12	2013	East Plant	Hastings	4.874	OH	H	W	397	ACSR	1		1 1	17718	SWPS	I	100	Cherry St. Intg.	Planned	Reliability		
2011	US	SPP RE	SPP	AC	100-120	115	262	6	2013	Goodyear	MacVicar	4	OH	P	W	1192.5	ACSR	1		1 1	10005	Westar Energy	I	100	Goodyear-MacVicar-17th & Fairlawn 115kV	Planned	Reliability		
2011	US	SPP RE	SPP	AC	300-399	345	1793	12	2013	Seminole	Muskogee	100	OH	H	S	1590	ACSR	2		1 1		OG&E	I	100	Seminole to Muskogee	Under Construction	Reliability	Reliability	
2011	US	SPP RE	SPP	AC	200-299	230	452	6	2013	Potter County	Newhart Intg.	68	OH	H	W	795	ACSR	1		1 1	17718	SWPS	I	100	Newhart Intg.	Planned	Reliability		
2011	US	SPP RE	SPP	AC	100-120	115	146	4	2013	Cherry St. Intg.	Northwest	8.28	OH	H	W	397	ACSR	1		1 1	17718	SWPS	I	100	Cherry St. Intg.	Planned	Reliability		
2011	US	SPP RE	SPP	AC	100-120	115	146	6	2013	Pleasant Hill	Norton	0.2	OH	P	S	397	ACSR	1		1 1	17718	SWPS	I	100	Pleasant Hill	Planned	Reliability		
2011	US	SPP RE	SPP	AC	151-199	161	512	6	2013	Osbourne	Osbourne Tap	2	OH	P	S	1590	ACSR	1		1 1	17698	SOEP	I	100	Osbourne to Osbourne Tap	Planned	Reliability	Variable/Rene-wable	
2011	US	SPP RE	SPP	AC	121-150	138	305	12	2013	Fairfax KAMO	Pawnee Sw. Station	16.3	OH	P	S	1590	ACSR	1		1 1		GRDA	S	100	Fairfax-Pawnee	Planned		Integration	Other
2011	US	SPP RE	SPP	AC	200-299	230	452	6	2013	Newhart Intg.	Plant X	36	OH	H	W	795	ACSR	1		1 1	17718	SWPS	I	100	Newhart Intg.	Planned	Reliability		
2011	US	SPP RE	SPP	AC	300-399	345	1792	6	2013	Axtell	Post Rock	125	OH	P	S	T2-477	ACSR	2		1 1	13337	NPPD	S	42	Axtell to Post Rock	Under Construction	Economics / Congestion	Reliability	
2011	US	SPP RE	SPP	AC	200-299	230	452	4	2013	Cherry St. Intg.	Potter County	6.01	OH	H	W	795	ACSR	1		2 2	17718	SWPS	I	100	Cherry St. Intg.	Planned	Reliability		
2011	US	SPP RE	SPP	AC	121-150	138	106	12	2013	Wakita	Renfrow	25	OH	P	W	336.4	ACSR	1		1 1		WFEC		100	OG&E Renfrow interconnect Muncie to Armourdale Transmission Line	Planned	Fossil-Fired Integration	Reliability	
2011	US	SPP RE	SPP	AC	151-199	161	318	12	2013	Muncie Substation	Armourdale Substation	0.1	OH	P	S	1192	ACSR	1		1 1		KACY	M	100	Muncie to Armourdale Transmission Line	Planned	Reliability		
2011	US	SPP RE	SPP	AC	151-199	161	318	12	2013	Muncie Substation	Center City Substation	0.1	OH	P	S	1192	ACSR	1		1 1		KACY	M	100	Muncie to Center City Transmission Line	Planned	Reliability		
2011	US	SPP RE	SPP	AC	100-120	115	80	11	2014	Clarks	Central City No.	12	OH	P	W	T2-336	ACSR	1		1 1	13337	NPPD	S	100	Clarks to Central City No.	Planned	Reliability		
2011	US	SPP RE	SPP	AC	121-150	138	314	6	2014	Burns Tap	TC-Burns	9	OH	H	W	1192.5	ACSR	1		1 1	10005	Westar Energy	I	100	TransCanada-Burns 138kV	Planned	Reliability		
2011	US	SPP RE	SPP	AC	100-120	115	262	6	2014	New Clay Center SS	TC-Riley	10	OH	H	W	1192.5	ACSR	1		1 1	10005	Westar Energy	I	100	TransCanada-Riley 115kV	Planned	Reliability		
2011	US	SPP RE	SPP	AC	100-120	115	146	11	2014	Pleasant Hill	FEC Clovis (Intg. #3)	3	OH	P	S	397	ACSR	1		2 2	17718	SWPS	I	100	Pleasant Hill	Planned	Reliability		
2011	US	SPP RE	SPP	AC	100-120	115	146	12	2014	Newhart	Kress	18	OH	P	S	397	ACSR	1		1 1	17718	SWPS	I	100	Newhart Intg.	Planned	Reliability		
2011	US	SPP RE	SPP	AC	100-120	115	262	12	2014	MacVicar	17th & Fairlawn	4	OH	P	W	1192.5	ACSR	1		1 1	10005	Westar Energy	I	100	Goodyear-MacVicar-17th & Fairlawn 115kV	Planned	Reliability		
2011	US	SPP RE	SPP	AC	300-399	345	1793	5	2014	Woodward EHV	Border	72	OH	H	S	1590	ACSR	2		1 1		OG&E	I	100	Woodward EHV to Border	Planned	Reliability	Reliability	
2011	US	SPP RE	SPP	AC	100-120	115	146	12	2014	Plainview City	Cox	10	OH	P	S	397	ACSR	1		1 2	17718	SWPS	I	100	Plainview City	Planned	Reliability		
2011	US	SPP RE	SPP	AC	151-199	161	512	6	2014	Shipe Road	E. Centerton	9	OH	P	S	1590	ACSR	1		1 1	17698	SOEP	I	100	Shipe Road to E. Centerton	Planned	Reliability		
2011	US	SPP RE	SPP	AC	300-399	345	3586	6	2014	Border Substation	Hitchland	220	OH	H	S	1590	ACSR	2		2 2		OG&E	I	50	Border to Hitchland	Planned	Reliability	Reliability	
2011	US	SPP RE	SPP	AC	300-399	345	1793	6	2014	Woodward EHV	Hitchland	13.5	OH	P	S	1590	ACSR	2		2 2		OG&E	I	60	Woodward EHV to Hitchland	Planned	Reliability	Reliability	
2011	US	SPP RE	SPP	AC	100-120	115	146	6	2014	Newhart	Lamton	19	OH	P	S	397	ACSR	1		1 1	17718	SWPS	I	100	Newhart Intg.	Planned	Reliability		
2011	US	SPP RE	SPP	AC	300-399	345	1793	12	2014	Woodward EHV	Medicine Lodge	115	OH	P	S	1590	ACSR	2		2 2		OG&E	I	60	Woodward EHV to Medicine Lodge	Planned	Reliability	Reliability	
2011	US	SPP RE	SPP	AC	300-399	345	1793	10	2014	Valliant	NW Texarkana	76	OH	P	C	954	ACSR	2		1 1	17698	SOEP	I	100	Valliant to NW Texarkana	Planned	Reliability		
2011	US	SPP RE	SPP	AC	300-399	345	1800	6	2014	Hitchland	OGE Woodward Substation	30	OH	T	S	1590	ACSR	2		2 2	17718	SWPS	I	100	Hitchland-Woodward	Planned	Economics or Congestion	Economics or Congestion	
2011	US	SPP RE	SPP	AC	300-399	345	1355	6	2014	TUCO	OGE Woodward Substation	180	OH	H	S	795	ACSR	2		1 1	17718	SWPS	I	100	TUCO-Woodward	Planned	Economics or Congestion	Economics or Congestion	
2011	US	SPP RE	SPP	AC	100-120	115	146	2	2014	Kress Intg.	Plainview City	18	OH	P	S	397	ACSR	1		1 2	17718	SWPS	I	100	Plainview City	Planned	Reliability		
2011	US	SPP RE	SPP	AC	300-399	345	1336	6	2014	Flint Creek	Shipe Road	18	OH	P	C	954	ACSR	2		1 1	17698	SOEP	I	100	Flint Creek to Shipe Road	Planned	Reliability		

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	Geographic Area			Voltage		Capacity		In-Service		Electrical Connection		Locations		Line Information				Conductor Characteristics		Circuits		Company Information				Project Information			
Data Year	Country	NERC Region	NERC Sub-region	Type	Operating (kV)	Design (kV)	Rating (MVA)	Month	Year	From Terminal	To Terminal	Length (Miles)	Type	Pole Type	Pole Material	Size (MCM)	Material	Bundling Arrangement	Present	Ultimate	Company Code	Company Name	Organizational Type	Ownership (Percent)	Project Name	Level of Certainty	Primary Driver 1	Primary Driver 2	
2011	US	SPP	RE	SPP	AC	200-299	230	452	12	2014	Newhart Intg.	Swisher County	19	OH	H	S	795	ACSR	1		1 1	17718	SWPS	I	100	Newhart Intg.	Planned	Reliability	
2011	US	SPP	RE	SPP	AC	100-120	115	146	6	2014	Newhart	Castro	24	OH	P	S	397	ACSR	1		1 1	17718	SWPS	I	100	Newhart Intg.	Planned	Reliability	
2011	US	SPP	RE	SPP	AC	151-199	161	1170	12	2014	Wolcott Substation	Nearman Substation	5	OH	P	S	1192	ACSS	1		2 2		KACY	M	100	Wolcott to Nearman Transmission Line	Planned	Reliability	
2011	US	SPP	RE	SPP	AC	100-120	115	372	5	2015	SW 7th & Bennet	40th & Rokeby	5.4	OH	P	S	2-397	ACSR	2		1 1	11018	Lincoln Electric System	M	100	SW Reliability Project	Planned	Reliability	
2011	US	SPP	RE	SPP	AC	151-199	161	233	12	2015	GREENWOOD	LONE JACK	4.7	OH	P	S	795	ACSR	1		1 1		KCP&L GMO	I	1	GREENWOOD-LONEJACK	Planned	Reliability	Reliability
2011	US	SPP	RE	SPP	AC	300-399	345	2546	6	2015	IATAN	NASHUA	30	OH	H	W	1192	ACSR	2		1 1		KCP&L	I	1	IATAN-NASHUA	Planned	Economics / Congestion	Economics / Congestion
2011	US	SPP	RE	SPP	AC	200-299	230		6	2015	Stegall / WAPA	Stegall/ BEPC	3.3	OH	P	S	T2-477	ACSR			1 1	13337	NPPD	S	100	Stegall / WAPA to Stegall/BEPC	Planned	Reliability	
2011	US	SPP	RE	SPP	ac	100-120	115		12	2015	Kinsley	various options	35	oh	H	w		ACSR			1	MIDW	MIDW			Kinsley	Conceptual	Reliability	Reliability
2011	US	SPP	RE	SPP	AC	151-199	161	268	6	2016	Monett Sub #383	South of Monett, MO	9.2	OH	H	W	795	ACSR	1		1 1	5860	The Empire District Electric Co	I	100	Monett	Planned	Reliability	Economics / Congestion
2011	US	SPP	RE	SPP	AC	300-399	345	1336	6	2016	Shipe Road	E. Rogers	9	OH	P	C	954	ACSR	2		1 1	17698	SOEP	I	100	Shipe Road to E. Rogers	Planned	Reliability	
2011	US	SPP	RE	SPP	AC	300-399	345	1336	6	2016	E. Rogers	Osage Creek	32	OH	P	C	954	ACSR	2		1 1	17698	SOEP	I	100	E. Rogers to Osage Creek	Planned	Reliability	
2011	US	SPP	RE	SPP	AC	151-199	161	1170	12	2016	Fisher Substation	Barber Substation	2.5	OH	P	S	1192	ACSS	1		1 1		KACY	M	100	Fisher to Barber Substation	Conceptual	Reliability	
2011	US	SPP	RE	SPP	AC	151-199	161	585	12	2016	Kaw Substation	Barber Substation	2	OH	P	S	1192	ACSS	1		1 1		KACY	M	100	Kaw to Barber Transmission Line	Conceptual	Reliability	
2011	US	SPP	RE	SPP	AC	151-199	161	585	12	2016	Speaker Substation	Kaw Substation	3	OH	P	S	1192	ACSS	1		1 1		KACY	M	100	Speaker to Kaw Transmission Line	Conceptual	Reliability	
2011	US	SPP	RE	SPP	AC	151-199	161	585	12	2016	Kaw-West Sub	Speaker Sub	4	OH	P	S	1192	ACSS	1		1 1		KACY	M	100	Kaw-West to Speaker Transmission Line	Conceptual	Reliability	
2011	US	SPP	RE	SPP	AC	151-199	161	293	6	2017	CEDAR NILES	CLARE	4.8	OH	P	S	1192	ACSR	1		1 1		KCP&L	I	1	CEDAR NILES-CLARE	Planned	Reliability	Reliability
2011	US	SPP	RE	SPP	AC	300-399	345	1792	6	2017	SIBLEY	MARYVILLE	105	OH	H	W	1192	ACSR	2		1 1		KCP&L GMO	I	1	SIBLEY-MARYVILLE	Planned	Economics / Congestion	Variable/Renewable Integration
2011	US	SPP	RE	SPP	AC	300-399	345	1792	6	2017	MARYVILLE	NEBRASKA	70	OH	H	W	1192	ACSR	2		1 1		KCP&L GMO	I	0.928	MARYVILLE-NEBRASKA	Planned	Economics / Congestion	Variable/Renewable Integration
2011	US	SPP	RE	SPP	AC	151-199	161	585	12	2017	Speaker Substation	Everett Substation	3	OH	P	S	1192	ACSS	1		1 1		KACY	M	100	Speaker to Everett Transmission Line	Conceptual	Reliability	
2011	US	SPP	RE	SPP	AC	151-199	161	585	12	2017	Everett Substation	Quindaro Substation	4.5	OH	P	S	1192	ACSS	1		1 1		KACY	M	100	Everett to Quindaro Transmission Line	Conceptual	Reliability	
2011	US	SPP	RE	SPP	AC	300-399	345	1793	6	2020	Woodward EHV	Woodring	95	OH	H	S	1590	ACSR	2		1 1		OG&E	I	100	Woodward EHV to Woodring	Conceptual	Reliability	Reliability
2011	US	SPP	RE	SPP	AC	121-150	138	183	11	2012	Twin Lakes Switchyard	OG&E Crescent Substation	7	OH	H	W	795	ACSR	1		1 1		WFEC		100	Twin Lakes to OG&E Crescent 138kV	Under Construction	Reliability	Economics or Congestion
2011	US	SPP	RE	SPP	AC	121-150	138	183	12	2012	Anadarko SW	Washita	1	OH	H	W	795	ACSR	1		1 1		WFEC		100	Anadarko SW to Washita	Under Construction	Economics or Congestion	
2011	US	SPP	RE	SPP	AC	121-150	138	183	12	2013	Loco SW	Healdton-Butler Jct.	13	OH	H	W	795	ACSR	1		1 1		WFEC		100	Loco SW to Healdton-Butler Jct.	Planned	Reliability	
2011	US	SPP	RE	SPP	AC	121-150	138	183	6	2015	Elk City Substation	Russell Switchyard	46	OH	H	W	795	ACSR	1		1 1		WFEC		100	Elk City to Russell SW 138kV	Planned	Economics or Congestion	Reliability
2011	US	SPP	RE	SPP	AC	121-150	138	183	6	2016	Cache Switchyard	Grandfield Switchyard	58	OH	H	W	795	ACSR	1		1 1		WFEC		100	Cache to Grandfield 138kV	Planned	Reliability	
2011	US	SPP	RE	SPP	AC	121-150	138	106	12	2016	Anadarko Switchyard	OU Switchyard	11.1	OH	H	W	336.4	ACSR	1		1 1		WFEC		100	Anadarko to OU	Planned	Reliability	
2011	US	SPP	RE	SPP	AC	121-150	138	183	12	2016	Snyder Switchyard	Paradise Substation	9.9	OH	H	W	795	ACCR	1		1 1		WFEC		100	Snyder SW to Paradise	Planned	Reliability	
2011	US	SPP	RE	SPP	AC	151-199	161	428	6	2017	Stateline #439	Reinmiller #393	12	OH	P	S	795	ACSR	2		1 1	5860	The Empire District Electric Co	I	100	South Joplin	Planned	Reliability	Economics / Congestion
2011	US	SPP	RE	SPP	AC	121-150	138	106	12	2017	Snyder Switchyard	Russell Switchyard	44	OH	H	W	336.4	ACSR	1		1 1		WFEC		100	Snyder SW to Russell	Planned	Reliability	
2011	US	WECC		WECC-US	AC	200-299	230	1200	6	2014	Coolidge	Coolidge	6		TBD	TBD	TBD	TBD			TBD	803	APS	I	APS-75%; ED2-25%;	Sundance@Pinal Central 230 kV Line	Planned	Economics / Congestion	Reliability

Table 6. Proposed high-voltage transmission line additions filed covering calendar Year 2011, by North American Electric Reliability Corporation, 2012 through 2021 (cont.)

	Geographic Area			Voltage		Capacity		In-Service		Electrical Connection		Locations		Line Information		Conductor Characteristics			Circuits		Company Information				Project Information				
Data Year	Country	NERC Region	NERC Sub-region	Type	Operating (kV)	Design (kV)	Rating (MVA)	Month	Year	From Terminal	To Terminal	Length (Miles)	Type	Pole Type	Pole Material	Size (MCM)	Material	Bundling Arrangement	Present	Ultimate	Company Code	Company Name	Organizational Type	Ownership (Percent)	Project Name	Level of Certainty	Primary Driver 1	Primary Driver 2	
2011	US	WECC	WECC-US	AC	200-299	230	1200	6	2014	Buckeye AZ	Surprise AZ	15	TBD	TBD	TBD	TBD	TBD			TBD	803	APS	I	100	Sun Valley ▯ Tribby Wash 230 kV Line	Planned	Economics / Congestion	Reliability	
2011	US	WECC	WECC-US	AC	200-299	230	1200	6	2015	Surprise AZ	Goodyear AZ	12	TBD	TBD	TBD	TBD	TBD			TBD	803	APS	I	100	TS2▯ Palm Valley 230 kV Line	Planned	Economics / Congestion	Reliability	
2011	US	WECC	WECC-US	AC	200-299	230	1200	6	2015	Surprise AZ	Surprise AZ	12	TBD	TBD	TBD	TBD	TBD			TBD	803	APS	I	100	TS2▯ Tribby Wash 230 kV Line	Planned	Economics / Congestion	Reliability	
2011	US	WECC	WECC-US	AC	200-299	230	TBD	6	2014	Yuma AZ	Yuma AZ	11	TBD	TBD	TBD	TBD	TBD			TBD	803	APS	I	100	North Gila - TS8 230 kV Line	Planned	Economics / Congestion	Reliability	
2011	US	WECC	WECC-US	AC	400-599	500	1000	6	2013	Maricopa Co. AZ	Wintersburg AZ	15	TBD	TBD	TBD	TBD	TBD			TBD	803	APS	I		APS-80%; SRP-10%; CADWP-10%	Delaney - Palo Verde 500 kV Line	Planned	Economics / Congestion	Reliability
2011	US	WECC	WECC-US	AC	400-599	500	1200	6	2014	Wintersburg AZ	Yuma AZ	115	TBD	TBD	TBD	TBD	TBD			TBD	803	APS	I		APS-40%; SRP-20%; IID-20%; WMIDD-20%	Palo Verde - North Gila 500 kV line	Planned	Economics / Congestion	Reliability
2011	US	WECC	WECC-US	AC	400-599	500	1200	6	2016	Buckeye AZ	Peoria AZ	40	TBD	TBD	TBD	TBD	TBD			TBD	803	APS	I		APS-80%; SRP-10%; CADWP-10%	Sun Valley ▯ Morgan 500 kV Line	Planned	Economics / Congestion	Reliability
2011	US	WECC	WECC-US	AC	400-599	500	TBD	6	2014	Maricopa Co. AZ	Buckeye AZ	28	TBD	TBD	TBD	TBD	TBD			TBD	803	APS	I		APS-80%; SRP-10%; CADWP-10%	Delaney - Sun Valley 500 kV Line	Planned	Economics / Congestion	Reliability
2011	US	WECC	WECC-US	AC	100-120	115	222	12	2012	West Station 115 kV bus	Portland 115 kV bus	16 OH	P	W	795	ACSR	1			1 1	???	BHCE	I	100	West Station-Portland #2 115 kV Line	Planned	Reliability		
2011	US	WECC	WECC-US	AC	100-120	115	222	12	2012	Reader 115 Sub	Rattlesnake Butte 115 Sub	36 OH	P	W	795	ACSR	1			1 1	???	BHCE	I	100	Reader-Rattlesnake Butte 115 kV Line	Planned	Generation Interconnection		
2011	US	WECC	WECC-US	AC	100-120	115	222	12	2012	Baculite Mesa 115 kV bus	Overton 115 kV bus	4 OH	P	W	795	ACSR	1			1 1	???	BHCE	I	100	Baculite Mesa-Overton 115 kV rebuild	Planned	Reliability		
2011	US	WECC	WECC-US	AC	100-120	115	222	12	2013	Pueblo 115 kV bus	West Station 115 kV bus	5 OH	P	W	795	ACSR	1			1 1	???	BHCE	I	100	Pueblo-West Station 115 kV Rebuild	Planned	Reliability		
2011	US	WECC	WECC-US	AC	100-120	115	222	12	2013	Greenhorn 115 kV bus	Reader 115 kV bus	5 OH	P	W	795	ACSR	1			1 1	???	BHCE	I	100	Greenhorn-Reader 115 kV line rebuild	Planned	Reliability		
2011	US	WECC	WECC-US	AC	100-120	115	222	12	2014	La Junta BHCE 115 kV bus	La Junta TSGT 115 kV bus	1 OH	P	W	795	ACSR	1			1 1	???	BHCE	I	50	La Junta Interconnect	Planned	Reliability		
2011	US	WECC	WECC-US	AC	200-299	230	554	12	2014	Teckla 230 kV bus	Osage 230 kV bus	60 OH	P	W	1272	ACSR	1			1 1		BHP	I	100	Teckla-Osage 230 kV line	Planned	Reliability		
2011	US	WECC	WECC-US	AC	200-299	230	554	12	2015	Osage 230 kV bus	Lange 230 kV bus	75 OH	P	W	1272	ACSR	1			1 1		BHP	I	100	Osage-Lange 230 kV line	Planned	Reliability		
2011	US	WECC	WECC-US	AC	400-599	500	4936 @ -5° C 3949 @ 30° C	12	2022	Clyde, WA	Central Ferry, WA	38 OH	T	S	3-1.3 Inch (TW)	ACSR	3			1 1	1738	BPA	F	100	Lower Monumental-Central Ferry 500kV	Planned	Variable/Renewable Integration	Economics or Congestion	
2011	US	WECC	WECC-US	AC	400-599	500	4936 @ -5° C 3949 @ 30° C	2	2013	The Dalles, OR	Goldendale, WA	28 OH	T	S	3-1.3 Inch (TW)	ACSR	3			1 1	1738	BPA	F	100	Big Eddy-Knight 500kV	Planned	Variable/Renewable Integration	Economics or Congestion	
2011	US	WECC	WECC-US	AC	400-599	500	TBD	12	2015	Castle Rock, WA	Troutdale, OR	70 OH	TBD	S	TBD	TBD	3			1 TBD	1738	BPA	F	100	Castle Rock-Troutdale 500 kV line	Planned	Variable/Renewable Integration	Economics or Congestion	
2011	US	WECC	WECC-US	AC	100-120	115	TBD	12	2021	Rocky Reach	Chelan #1	29 OH	TBD	S	TBD	TBD	1			1 1	3413	CHPD	M	1	Rocky Reach-Chelan #1 Rebuild	Conceptual	Reliability	Reliability	
2011	US	WECC	WECC-US	AC	100-120	115	281	12	2012	Entiat	Crum Canyon	7.5 OH	P	S	1272	ACSR	1			1 1	3413	CHPD	M	1	Entiat Valley Tap	Planned	Other	Other	
2011	US	WECC	WECC-US	AC	100-120	115	222	12	2012	Happy Jack Sub	North Range Sub	1 OH	P	W	795	ACSR	1			1 1		CLFP	I	100	Happy Jack-North Range 115 kV Line	Planned	Reliability		
2011	US	WECC	WECC-US	AC	100-120	115	222	12	2013	Corlett Sub	Swan Ranch Sub	3 OH	P	W	795	ACSR	1			1 1		CLFP	I	100	Corlett-Swan Ranch 115 kV Line	Planned	Reliability		
2011	US	WECC	WECC-US	AC	100-120	115	222	12	2013	Swan Ranch Sub	Cheyenne South Sub	6 OH	P	W	795	ACSR	1			1 1		CLFP	I	100	Swan Ranch-Cheyenne South 115 kV Line	Planned	Reliability		
2011	US	WECC	WECC-US	AC	100-120	115	150	12	2012	New Bowdoin Sub	Pump Station No. 9	48 OH	P	W	556-T2	ACSR	1			1 1		CMEPC	C	100	Pump Station No.9	Planned	Reliability	Other	
2011	US	WECC	WECC-US	AC	200-299	230	555	12	2013	Douglas Switchyard	Rapids Switchyard	15 OH	H	S	1590	ACSR	1			1 1	5326	DOPD	M	100	Douglas-Rapids 230-kV Line	Planned	Reliability		
2011	US	WECC	WECC-US	AC	100-120	115	156.6	5	2015	Las Cruces, NM	Las Cruces, NM	30	TBD	W	954	ACSR	1			1 TBD	5701	EPE	I	100	Afton-Airport-Jornada 115 kV Line	Conceptual	Other	Reliability	
2011	US	WECC	WECC-US	AC	100-120	115	156.6	12	2012	El Paso, Tx	El Paso,Tx	10.3	TBD	S	954	ACSR	1			1 1	5701	EPE	I	100	Santa Teresa-Montoya 115 kV Line	Planned	Reliability	Variable/Renewable Integration	
2011	US	WECC	WECC-US	AC	100-120	115	156.6	5	2012	Las Cruces, NM	Las Cruces, NM	6.6	TBD	W	954	ACSR	1			1 TBD	5701	EPE	I	100	Arroyo 115 kV Line	Planned	Reliability	Reliability	
2011	US	WECC	WECC-US	AC	100-120	115	156.6	5	2012	Las Cruces, NM	Las Cruces, NM	6.6	TBD	W	954	ACSR	1			1 TBD	5701	EPE	I	100	Jornada 115 kV Line	Planned	Reliability	Reliability	

Table 6. Proposed high-voltage transmission line additions filed covering calendar Year 2011, by North American Electric Reliability Corporation, 2012 through 2021 (cont.)

	Geographic Area			Voltage		Capacity		In-Service		Electrical Connection		Locations		Line Information				Conductor Characteristics		Circuits			Company Information				Project Information			
Data Year	Country	NERC Region	NERC Sub-region	Type	Operating (kV)	Design (kV)	Rating (MVA)	Month	Year	From Terminal	To Terminal	Length (Miles)	Type	Pole Type	Pole Material	Size (MCM)	Material	Bundling Arrangement	Present	Ultimate	Company Code	Company Name	Organizational Type	Ownership (Percent)	Project Name	Level of Certainty	Primary Driver 1	Primary Driver 2		
2011	US	WECC	WECC-US	AC	100-120	115	202	12	2012	Sand Dunes Larson Warden Tap	Ruff Tap	8	OH	H	W	795	ACSS	Single		1	1	14624	GCPD	O	100	Wheeler Rd Tap to Ruff tap Reconductor	Conceptual	Reliability	Reliability	
2011	US	WECC	WECC-US	AC	100-120	115	202	12	2014	Rocky Ford	Larson (Dover)	8.5	OH	H	W	795	ACSS	Single		1	1	14624	GCPD	O	100	Rocky Ford Dover 115 kV	Conceptual	Other	Reliability	
2011	US	WECC	WECC-US	AC	200-299	230	797	12	2018	Wanapum	Midway	23.9	OH	H	S	1272	ACSR	2		1	1	14624	GCPD	O	100	Wanapum _ Priest Rapids Mid Way Columbia	Conceptual	Reliability	Reliability	
2011	US	WECC	WECC-US	AC	200-299	230	797	11	2013	Columbia	Larson	30.53	OH	H	S	1272	ACSR	2		1	1	14624	GCPD	O	100	Rocky Ford 230 kV line	Conceptual	Economics / Congestion	Reliability	
2011	US	WECC	WECC-US	AC	200-299	230	565	6	2016	Walters Ferry, ID	Bowmont, ID	13	OH	TDC	S	1590	ACSR	1		0	2	9191	IPC	I	100	Hemingway-Boardman Transm	Conceptual	Other	Other	
2011	US	WECC	WECC-US	AC	300-399	345	1386	6	2019	Shoshone, ID	Pocatello, ID	0	OH	H	S	1272	ACSR	2		1	1	9191	IPC	I	100	Gateway West Transm.	Conceptual	Other	Other	
2011	US	WECC	WECC-US	AC	300-399	345	1386	6	2019	American Falls, ID	Pocatello, ID	32	OH	H	S	1272	ACSR	2		1	1	9191	IPC	I	100	Gateway West Transm.	Conceptual	Other	Other	
2011	US	WECC	WECC-US	AC	300-399	500	2079	6	2019	Shoshone, ID	Pocatello, ID	0	OH	H	S	1272	ACSR	3		1	1	9191	IPC	I	100	Gateway West Transm.	Conceptual	Other	Other	
2011	US	WECC	WECC-US	AC	400-599	500	3000	6	2019	Shoshone, ID	American Falls, ID	84	OH	H	S	1272	ACSR	3		1	1	9191	IPC	I	100	Gateway West Transm.	Conceptual	Other	Other	
2011	US	WECC	WECC-US	AC	400-599	500	3000	6	2021	Shoshone, ID	Walters Ferry, ID	126	OH	TBD	S	1946.6	ACSR	3		1	1	9191	IPC	I	100	Gateway West Transm.	Conceptual	Other	Other	
2011	US	WECC	WECC-US	AC	400-599	500	3000	6	2019	Hollister, ID	Shoshone, ID	34	OH	TBD	TBD	1946.6	ACSR	3		1	1	9191	IPC	I	unknown at this time	Gateway West Transm.	Conceptual	Other	Other	
2011	US	WECC	WECC-US	AC	400-599	500	3000	6	2019	Hollister, ID	Walters Ferry, ID	161	OH	TBD	TBD	1946.6	ACSR	3		1	1	9191	IPC	I	unknown at this time	Gateway West Transm.	Conceptual	Other	Other	
2011	US	WECC	WECC-US	AC	400-599	500	3000	6	2019	Downey, ID	American Falls, ID	55	OH	TBD	TBD	1946.6	ACSR	3		1	1	9191	IPC	I	unknown at this time	Gateway West Transm.	Conceptual	Other	Other	
2011	US	WECC	WECC-US	AC	400-599	500	3000	6	2016	Walters Ferry, ID	Boardman, OR	300	OH	TBD	TBD	1272	ACSR	3		1	1	9191	IPC	I	unknown at this time	Hemingway-Boardman Transm	Conceptual	Other	Other	
2011	US	WECC	WECC-US	AC	200-299	230	351	12	2012	Midpoint, ID	DRAM, ID	0	OH	H	W	715.5	ACSR	1		1	1	9191	IPC	I	100	Midpoint-Boise Bench Transm: Loop Justice	Planned	Variable/Renewable Integration	Other	
2011	US	WECC	WECC-US	AC	200-299	230	351	12	2012	Midpoint, ID	King, ID	24	OH	H	W	715.5	ACSR	1		1	1	9191	IPC	I	100	Midpoint-Boise Bench Transm: Loop Justice	Planned	Variable/Renewable Integration	Other	
2011	US	WECC	WECC-US	AC	200-299	230	351	12	2012	King, ID	DRAM, ID	80	OH	H	W	715.5	ACSR	1		1	1	9191	IPC	I	100	Midpoint-Boise Bench Transm: Loop Justice	Planned	Variable/Renewable Integration	Other	
2011	US	WECC	WECC-US	AC	121-150	230	339	6	2012	South of New Plymouth, ID	Caldwell, ID	20	OH	H	W	1590	ACSR	1		1	1	9191	IPC	I	100	Langley Gulch Generation Project	Under Construction	Economics / Congestion	Other	
2011	US	WECC	WECC-US	AC	200-299	230	650	7	2015	Barren Ridge CA	Rinaldi CA	76	OH	T	S	1433.6	OT	1		1	1	11208	LADWP	M	LDWP - 100%	Barren Ridge Renewable Transmission Project	Conceptual	Variable/Renewable Integration	Economics or Congestion	
2011	US	WECC	WECC-US	AC	200-299	230	950	7	2015	Haskell CA	Castaic CA	12	OH	T	S	715.5	OT	2		0	1	11208	LADWP	M	LDWP - 100%	Barren Ridge Renewable Transmission Project	Conceptual	Variable/Renewable Integration	Economics or Congestion	
2011	US	WECC	WECC-US	AC	200-299	230	950	7	2015	Barren Ridge CA	Haskell CA	61	OH	T	S	715.5	OT	2		0	2	11208	LADWP	M	LDWP - 100%	Barren Ridge Renewable Transmission Project	Conceptual	Variable/Renewable Integration	Economics or Congestion	
2011	US	WECC	WECC-US	AC	200-299	230	500	8	2014	Scattergood Generating Station	Olympic Receiving Station K	12	UG	O	O	2500	CU	1		0	1	11208	LADWP	M	LADWP - 100%	Scattergood-Olympic 230kV Line 1	Planned	Reliability	Economics or Congestion	
2011	US	WECC	WECC-US	AC	100-120	115	285	6	2015	Norton	STA	12	OH	P	S	TBD	ACSR	2		1	2	030106	Los Alamos County	M	1	Los Alamos Service Area Transmission Capacity Upgrade	Conceptual	Economics / Congestion	Other	
2011	US	WECC	WECC-US	AC	121-150	138	TBD	12	2014	Caribu County, ID	Caribu County, ID	32	OH	TBD	W	TBD	TBD	1		1	TBD	1738	Lower Valley Energy	F	100	Hooper Springs-Lanes Creek 115 kV	Planned	Reliability	Reliability	
2011	US	WECC	WECC-US	AC	200-299	240	300	8	2012	120S	Montana	326	OH	TBD	TBD	TBD	TBD	TBD		1		n/a	MATL	I	MATL - 100%	Montana Alberta Tie Line	Planned	Other		
2011	US	WECC	WECC-US	AC	200-299	230	810	6	2018	Las Vegas NV	Las Vegas NV	16	OH	T	S	954	ACSR	2		1	1	13407	NEVP	I	100	VARS project (Thunderbird - Iron Mt. #1)	Conceptual	Economics / Congestion		
2011	US	WECC	WECC-US	AC	200-299	230	810	6	2018	Las Vegas NV	Las Vegas NV	1	OH	T	S	954	ACSR	2		1	1	13407	NEVP	I	100	VARS project (Harry Allen - NW fold #1)	Conceptual	Economics / Congestion		



Table 6. Proposed high-voltage transmission line additions filed covering calendar Year 2011, by North American Electric Reliability Corporation, 2012 through 2021 (cont.)

	Geographic Area			Voltage		Capacity		In-Service		Electrical Connection		Locations		Line Information			Conductor Characteristics			Circuits			Company Information				Project Information			
Data Year	Country	NERC Region	NERC Sub-region	Type	Operating (kV)	Design (kV)	Rating (MVA)	Month	Year	From Terminal	To Terminal	Length (Miles)	Type	Pole Type	Pole Material	Size (MCM)	Material	Bundling Arrange-ment	Present	Ultimate	Company Code	Company Name	Organizational Type	Ownership (Percent)	Project Name	Level of Certainty	Primary Driver 1	Primary Driver 2		
2011	US	WECC	WECC-US	AC	200-299	230	810	6	2018	Las Vegas NV	Las Vegas NV	16	OH	T	S	954	ACSR	2		1 1	13407	NEVP	I	100	VARs project (NW - Iron Mt. #1)	Conceptual	Economics / Congestion			
2011	US	WECC	WECC-US	AC	400-599	500	3000	1	2012	Boulder City NV	Lathrop WellsNV	110	OH	T	S	1590	ACSR	3		1 1	13407	NEVP	I	0% (WAPA OWNED)	Mead - Amaragosa 500kV	Conceptual	Variable/Rene wable Integration			
2011	US	WECC	WECC-US	AC	400-599	500	3000	6	2018	Las Vegas NV	Las Vegas NV	28	OH	T	S	1590	ACSR	3		1 1	13407	NEVP	I	100	Harry Allen - Northwest #2 500kV	Conceptual	Variable/Rene wable Integration	Economics or Congestion		
2011	US	WECC	WECC-US	AC	400-599	500	3000	1	2014	Las Vegas NV	Lathrop WellsNV	75	OH	T	S	1590	ACSR	3		1 1	13407	NEVP	I	100	Northwest - Amaragosa 500kV	Conceptual	Variable/Rene wable Integration			
2011	US	WECC	WECC-US	AC	200-299	230	1200	6	2012	Las Vegas NV	Mercury NV	75	OH	T	S	954	ACSR	2		2 2	13407	NEVP	I	VEA 100%	VEA / NVE 230 kV Interconnection at Northwest	Planned	Variable/Rene wable Integration	Economics or Congestion		
2011	US	WECC	WECC-US	AC	200-299	230	1200	6	2018	Las Vegas NV	Las Vegas NV	1	OH	T	S	954	ACSR	2		2 2	13407	NEVP	I	100	Sunrise 500 kV project (Sunrise - Winterwood #1)	Planned	Economics / Congestion			
2011	US	WECC	WECC-US	AC	200-299	230	1200	6	2018	Las Vegas NV	Las Vegas NV	1	OH	T	S	954	ACSR	2		2 2	13407	NEVP	I	100	Sunrise 500 kV project (Sunrise - Winterwood #2)	Planned	Economics / Congestion			
2011	US	WECC	WECC-US	AC	200-299	230	810	6	2018	Las Vegas NV	Las Vegas NV	18	OH	T	S	954	ACSR	2		1 1	13407	NEVP	I	100	Sunrise 500 kV project (Sunrise - Equestrian #1)	Planned	Economics / Congestion			
2011	US	WECC	WECC-US	AC	200-299	230	810	6	2018	Las Vegas NV	Las Vegas NV	18	OH	T	S	954	ACSR	2		1 1	13407	NEVP	I	100	Sunrise 500 kV project (Sunrise - Equestrian #2)	Planned	Economics / Congestion			
2011	US	WECC	WECC-US	AC	200-299	230	810	6	2018	Las Vegas NV	Las Vegas NV	4	OH	T	S	954	ACSR	2		1 1	13407	NEVP	I	100	Sunrise 500 kV project (Sunrise - Clark #1)	Planned	Economics / Congestion			
2011	US	WECC	WECC-US	AC	200-299	230	810	6	2018	Las Vegas NV	Las Vegas NV	5	OH	T	S	954	ACSR	2		1 1	13407	NEVP	I	100	Pecos - Brooks 230 kV Line	Planned	Economics / Congestion			
2011	US	WECC	WECC-US	AC	400-599	500	3000	6	2018	Las Vegas NV	Las Vegas NV	8	OH	T	S	1590	ACSR	3		2 2	13407	NEVP	I	100	Sunrise 500 kV project (Mead - HA fold Line #1)	Planned	Economics / Congestion			
2011	US	WECC	WECC-US	AC	400-599	500	3000	6	2018	Las Vegas NV	Las Vegas NV	8	OH	T	S	1590	ACSR	3		2 2	13407	NEVP	I	100	Sunrise 500 kV project (Mead - HA fold Line #2)	Planned	Economics / Congestion			
2011	US	WECC	WECC-US	AC	400-599	500	TBD	6	2015	Las Vegas NV	Las Vegas NV	0	OH	TBD	TBD	TBD	TBD	TBD		TBD	13407	NEVP	I	100	Harry Allen / Eldorado 500kV #1	Planned	Variable/Rene wable Integration			
2011	US	WECC	WECC-US	AC	400-599	500	TBD	6	2016	Las Vegas NV	Las Vegas NV	0	OH	TBD	TBD	TBD	TBD	TBD		TBD	13407	NEVP	I	100	Harry Allen / Eldorado 500kV #3	Planned	Variable/Rene wable Integration			
2011	US	WECC	WECC-US	AC	200-299	230	From 337 to 383 MW	7	2013	Mill Creek, MT	AMPS Substation, ID	0	Existing	Existing	Existing	Existing	Existing	Existing		Existing	13902	NWMT	I	100	Path 18 46 MW Upgrade	Planned	Trnasmission Service	None		
2011	US	WECC	WECC-US	AC	400-599	500	1500	1	2017	Townsend, MT	Midpoint, ID	460	TBD	TBD	TBD	TBD	TBD	TBD		TBD	13902	NWMT	I	100	Mountain States Transmission Intertie (MSTI)	Planned	Variable/Rene wable Integration	Economics or Congestion		
2011	US	WECC	WECC-US	AC	400-599	500	From 2200 to 3000 MW	1	2017	Broadwater or Colstrip	Garrison- BPA Existing Line	0	Existing	Existing	Existing	Existing	Existing	Existing		Existing	13902	NWMT	I	30	500 kV Upgrade	Planned	Variable/Rene wable Integration	Economics or Congestion		
2011	US	WECC	WECC-US	AC	100-120	115	100	12	2013	Tonasket Switchyard	Aeneas Substation	16.05	OH	P	W	336	ACSR	1		1 1	5286	OKPD	M	100	Tonasket/Aeneas 115-kV Line	Conceptual	Reliability	Economics or Congestion		
2011	US	WECC	WECC-US	AC	100-120	115	100	12	2013	Watson Draw Tap Switch	Gold Creek Substation	13.68	OH	H	S	336	ACSR	1		1 1	5286	OKPD	M	100	So. Pateros- Twisp 115-kV Line	Planned	Reliability	Economics or Congestion		
2011	US	WECC	WECC-US	AC	100-120	115	100	12	2013	Gold Creek Substation	Twisp Switchyard	14.48	OH	H	B	336	ACSR	1		1 1	5286	OKPD	M	100	No. Pateros- Twisp 115-kV Line	Planned	Reliability	Economics or Congestion		
2011	US	WECC	WECC-US	AC	121-150	345	600	5	2019	Central, UT	St.George,UT	20	OH	T	S	1272	ACSR	2		2 2	14354	PACE	I	100	new Butte/Central to St. George345 kV double circuit line.	Planned	Economics / Congestion	Reliability		
2011	US	WECC	WECC-US	AC	200-299	230	888	12	2015	Windstar,WY	Carbon County, WY	76	OH	H	W	1272	ACSR	2		2 2	14354	PACE	I	100	Windstar- Aeolus 230 kV #1 line	Planned	Economics / Congestion			
2011	US	WECC	WECC-US	AC	200-299	230	888	12	2015	Windstar,WY	Carbon County, WY	122	OH	H	W	1272	ACSR	2		1 1	14354	PACE	I	100	Windstar- Aeolus 230 kV #2 line	Planned	Economics / Congestion			
2011	US	WECC	WECC-US	AC	200-299	230	888	12	2015	Aeolus, WY	Dave Johnston substation,WY	70	OH	H	S	1272	ACSR	2		2 2	14354	PACE	I	100	DJ- Aeolus 230 kV line rebuild with bundled 1272	Planned	Economics / Congestion			
2011	US	WECC	WECC-US	AC	300-399	345	1163	12	2019	Sigurd, UT	Hurricane, Utah	170	OH	T	S	954	ACSR	2		1 1	14354	PACE	I	100	Sigurd-Three Peaks- Hurricane-St. George 345 kV line	Planned	Economics / Congestion	Reliability		
2011	US	WECC	WECC-US	AC	300-399	500	3681.5	6	2013	Mona, UT	Tooele County,UT	65	OH	T	S	1949.6	ACSR/TW	1		1 1	14354	PACE	I	100	Clover-Limber 500 kV line energized at 345 kV	Planned	Economics / Congestion	Reliability		
2011	US	WECC	WECC-US	AC	300-399	345	1396	6	2013	Tooele County, UT	South Jordan, UT	32	OH	T	S	1272	ACSR	2		2 2	14354	PACE	I	100	Limber-Oquirrh 2-345 kV lines	Planned	Economics / Congestion	Reliability		

Table 6. Proposed high-voltage transmission line additions filed covering calendar Year 2011, by North American Electric Reliability Corporation, 2012 through 2021 (cont.)

	Geographic Area			Voltage	Capacity			In-Service		Electrical Connection	Locations		Line Information				Conductor Characteristics		Circuits		Company Information				Project Information				
Data Year	Country	NERC Region	NERC Sub-region	Type	Operating (kV)	Design (kV)	Rating (MVA)	Month	Year	From Terminal	To Terminal	Length (Miles)	Type	Pole Type	Pole Material	Size (MCM)	Material	Bundling Arrangement	Present	Ultimate	Company Code	Company Name	Organizational Type	Ownership (Percent)	Project Name	Level of Certainty	Primary Driver 1	Primary Driver 2	
2011	US	WECC	WECC-US	AC	300-399	345	1163	6	2014	Sigurd, UT	Central,UT	165	OH	T	S	954	ACSR	2		1	1	14354	PACE	I	100	Sigurd-Red Butte 345 kV #2 line	Planned	Economics / Congestion	Reliability
2011	US	WECC	WECC-US	AC	300-399	345	1332	12	2014	South Jordan, UT	SLC,UT	28	OH	P	S	1272	ACSR	2		2	2	14354	PACE	I	100	Oquirrh-Terminal 345 kV line	Planned	Economics / Congestion	Reliability
2011	US	WECC	WECC-US	AC	400-599	500	3681.5	12	2018	Carbon County, WY	Mona, UT	400	OH	T	S	1949.6	ACSR/TW	3		1	1	14354	PACE	I	100	Aeolus-Clover 500 kV line#1	Planned	Economics / Congestion	Variable/Renewable Integration
2011	US	WECC	WECC-US	AC	400-599	500	3681.5	12	2015	Carbon County, WY	Rock Springs, WY	154	OH	T	S	1949.6	ACSR/TW	3		1	1	14354	PACE	I	100	Aeolus-Anticline/Bridge 500 kV line #1	Planned	Economics / Congestion	
2011	US	WECC	WECC-US	AC	400-599	500	3681.5	12	2015	Rock Springs, WY	Downey, ID	203	OH	T	S	1949.6	ACSR/TW	3		1	1	14354	PACE	I	100	Anticline/Bridge-Populus 500 kV line #1	Planned	Economics / Congestion	
2011	US	WECC	WECC-US	AC	200-299	230	500	12	2013	Wallula	McNary	30	OH	H	W	1272	ACSR	1		1	1	14354	PACW	I	100	Wallula to McNary 230 kV Line	Planned	Economics / Congestion	Reliability
2011	US	WECC	WECC-US	AC	200-299	230	500	12	2013	Vantage	Pomona Heights	40	OH	H	W	1272	ACSR	1		1	1	14354	PACW	I	100	Vantage to Pomona	Planned	Economics / Congestion	Reliability
2011	US	WECC	WECC-US	AC	200-299	230	TBD	5	2012	Embarcadero	Potrero	3	UG	U	TBD	TBD	TBD	1		1	1	14328	PG&E	I	100	Embarcadero-Potrero 230kV Project (T1032)	Conceptual	Reliability	Reliability
2011	US	WECC	WECC-US	AC	200-299	230	TBD	5	2012	Midway	San Luis Obispo Solar Switching Station	68	OH	T	S	TBD	TBD	1		2	2	14328	PG&E	I	100	Midway-Morro Bay 230kV Reconductoring Project (T1093A)	Conceptual	Variable/Renewable Integration	Variable/Renewable Integration
2011	US	WECC	WECC-US	AC	200-299	230	TBD	5	2012	Rio Oso	Gold Hill	28.5	OH	T	S	TBD	TBD	1		1	1	14328	PG&E	I	100	Rio Oso-Atlantic and Rio Oso - Gold Hill 230kV line reconductoring project (T1001)	Conceptual	Reliability	Reliability
2011	US	WECC	WECC-US	AC	200-299	230	1366	5	2013	Telsa Substation (Livermore, CA)	Newark Substation (Fremont, CA)	54	OH	T	S	954 kcmil	ACSS	2		2	2	14328	PG&E	I	100	Tesla - Newark 230 kV Path Upgrade (T670A)	Conceptual	Economics / Congestion	Reliability
2011	US	WECC	WECC-US	AC	200-299	230	800 and 2146	12	2016	Collinsville, CA	Pittsburg, CA	OH and 8 SM		T	S	2300 kcmil	AL	2		2	2	14328	PG&E	I	100	Bay Area Bulk Transmission Project (T073)	Conceptual	Economics / Congestion	Reliability
2011	US	WECC	WECC-US	AC	200-299	230	683	5	2014	Contra Costa Substation (Antioch, CA)	Moraga Substation (Orinda, CA)	54	OH	T	S	954 kcmil	ACSS	1		2	2	14328	PG&E	I	100	Contra Costa - Moraga 230kV Line reconductoring (T991)	Conceptual	Reliability	
2011	US	WECC	WECC-US	AC	200-299	230	683	5	2014	Pittsburg Substation (Pittsburg, CA)	Telsa Substation (Livermore, CA)	62	OH	T	S	954 kcmil	ACSS	1		2	2	14328	PG&E	I	100	Pittsburg - Tesla 230kV Reconductoring (T984)	Conceptual	Economics / Congestion	Reliability
2011	US	WECC	WECC-US	AC	200-299	230	658	5	2014	Vaca Dixon Substation (Vacaville, CA)	Lakeville Substation (Petaluma, CA)	80	OH	T	S	1113 kcmil	AL	1		2	2	14328	PG&E	I	100	Vaca Dixon - Lakeville 230kV Reconductoring (T603B)	Conceptual	Economics / Congestion	Reliability
2011	US	WECC	WECC-US	AC	400-599	500	3000	12	2016	Selkirk BC	Collinsville CA	2500	DC	T	S	TBD	TBD	3		2	2	14328	PG&E	I	51-67 PG&E, 49 Others TBD	Canada/Pacific Northwest - Northern California Transmission Project (T1051)	Conceptual	Variable/Renewable Integration	Variable/Renewable Integration
2011	US	WECC	WECC-US	AC	400-599	500	2146	12	2017	Bakersfield, Ca	Fresno, Ca	280	OH	T	S	2300 kcmil	AL	2		2	2	14328	PG&E	I	100	Central California Clean energy Transmission Project (T971)	Conceptual	Reliability	Economics or Congestion
2011	US	WECC	WECC-US	AC	100-120	115	TBD	5	2012	Cressey	Gallo	12	OH	P	W	TBD	TBD	1		1	1	14328	PG&E	I	100	Atwater-Merced 115kV Line Reliability (T1026)	Planned	Reliability	Reliability
2011	US	WECC	WECC-US	AC	100-120	115	TBD	5	2012	San Mateo	Bay Meadows	4.5	OH	T	S	TBD	TBD	1		2	2	14328	PG&E	I	100	Bay Meadows 4/0 Cu line Reconductoring (T249)	Planned	Reliability	Reliability
2011	US	WECC	WECC-US	AC	100-120	115	TBD	6	2012	Placer	Horseshoe	16	OH	T	S	TBD	TBD	1		2	2	14328	PG&E	I	100	Gold Hill - Horseshoe 115 kV Line Reconductor (reconductor sections of the Placer-Gold Hill 115 kV lines between Horseshoe and Gold Hill substations) (T444D)	Planned	Reliability	Reliability

Table 6. Proposed high-voltage transmission line additions filed covering calendar Year 2011, by North American Electric Reliability Corporation, 2012 through 2021 (cont.)

Geographic Area				Voltage		Capacity		In-Service		Electrical Connection	Locations	Line Information				Conductor Characteristics		Circuits			Company Information				Project Information			
Data Year	Country	NERC Region	NERC Sub-region	Type	Operating (kV)	Design (kV)	Rating (MVA)	Month	Year	From Terminal	To Terminal	Length (Miles)	Type	Pole Type	Pole Material	Size (MCM)	Material	Bundling Arrangement	Present	Ultimate	Company Code	Company Name	Organizational Type	Ownership (Percent)	Project Name	Level of Certainty	Primary Driver 1	Primary Driver 2
2011	US	WECC	WECC-US	AC	100-120	115	TBD	6	2012	Placer	Horseshoe	16 OH	T	S	TBD	TBD	1		2	2	14328	PG&E	I	100	Gold Hill - Horseshoe 115 kV Line Reconnector (reconnector sections of the Placer-Gold Hill 115 kV lines between Horseshoe and Gold Hill substations) (T444D)	Planned	Reliability	Reliability
2011	US	WECC	WECC-US	AC	100-120	115	TBD	5	2012	Midway	Renfro	33 OH	T	S	TBD	TBD	1		2	2	14328	PG&E	I	100	Midway - Renfro 115 kV Reconnector (T1090)	Planned	Reliability	Reliability
2011	US	WECC	WECC-US	AC	100-120	115	TBD	5	2012	Missouri Flat	Gold Hill	25 OH	T	S	TBD	TBD	1		2	2	14328	PG&E	I	100	Missouri Flat - Gold Hill 115kV Reconnector (T444C)	Planned	Reliability	Reliability
2011	US	WECC	WECC-US	AC	100-120	115	TBD	5	2014	Ames	Ravenswood and San Matero	44 OH	T	S	TBD	TBD	1		1	1	14328	PG&E	I	100	South or San Matero Capacity Increase (T920A)	Planned	Reliability	Reliability
2011	US	WECC	WECC-US	AC	200-299	230	1366	5	2014	Newark Substation (Fremont, CA) Ravenswood Substation (Menlo Park, CA)		18 OH	T	S	954 kcmil	ACSS	2		2	2	14328	PG&E	I	100	newark - Ravenswood 230kV Line Reconnector (T982)	Planned	Economics / Congestion	Reliability
2011	US	WECC	WECC-US	AC	200-299	230	900	6	2012	Horizon	Keeler	1.47 OH	P	S	1272	ACSS	1		0	2	15248	PGN	I	PGE 100 %	Horizon Phase 1	Planned	Economics / Congestion	Economics or Congestion
2011	US	WECC	WECC-US	AC	200-299	230	900	6	2017	Blue Lake	Gresham	6.1 OH	P	S	1272	ACSS	1		0	1	15248	PGN	I	PGE 100 %	Blue Lake - Gresham 230 kV Line	Planned	Economics / Congestion	Economics or Congestion
2011	US	WECC	WECC-US	AC	400-599	500	1500	1	2017	Coyote Springs	Bethel	200 OH	T	S	1590	ACSR	3		1	2	15248	PGN	I	PGE 100 %	Cascade Crossing Sandia-North Line	Planned	Variable/Renewable Integration	Fossil-Fired Integration
2011	US	WECC	WECC-US	AC	100-120	115	200	12	2014	North	Montano	2.3 OH	P	S	795	ACSR	1		1	1	030105	PNM	I	1	Rio Puerco Phase 2 line bisection @ Rio Puerco	Conceptual	Reliability	
2011	US	WECC	WECC-US	AC	300-399	345	N/A	12	2014	San Juan	B-A			N/A	N/A	N/A	N/A	N/A		N/A	030105	PNM	I	1	Dixon - Horseshoe 230 kV Line	Planned	Reliability	
2011	US	WECC	WECC-US	AC	200-299	230	472	5	2012	Fort Collins CO	Loveland CO	10 hybrid	P	S	OH 954. UG 2000	OH ACSR, UG CU	1		2	2	15143	PRPA	M	100	Eldorado - Plainview 115kV	Under Construction	Reliability	
2011	US	WECC	WECC-US	AC	100-120	115	150	6	2013	Eldorado	Plainview	4 OH	TBD	TBD	TBD	TBD	TBD			TBD	15466	PSC	I	100	Niwot - Gunbarrel 230kV	Planned	Reliability	
2011	US	WECC	WECC-US	AC	200-299	230	576	12	2015	Rifle	Parachute	21 OH	TBD	TBD	TBD	TBD	TBD			TBD	15466	PSC	I	100	Rifle - Parachute	Planned	Reliability	
2011	US	WECC	WECC-US	AC	300-399	345	1200	6	2018	Pawnee	Daniels Park	124 OH	TBD	TBD	TBD	TBD	TBD			TBD	15466	PSC	I	100	Pawnee - Daniels Park 345kV	Planned	Reliability	
2011	US	WECC	WECC-US	AC	100-120	115	320	10	2012	Manchester WA	Long Lake WA	0.3 OH	TBD	TBD	TBD	TBD	TBD			TBD	15500	PSE	I	100	Kitsap County	Planned	Reliability	
2011	US	WECC	WECC-US	AC	100-120	115	TBD	11	2012	Sumner WA	Puyallup WA	3 OH	TBD	TBD	1272	ACSR	TBD			TBD	15500	PSE	I	100	Pierce County	Planned	Reliability	
2011	US	WECC	WECC-US	AC	100-120	230	TBD	11	2018	Manchester WA	Poulsbo WA	15 OH	TBD	TBD	TBD	TBD	TBD			TBD	15500	PSE	I	100	Whatcom County	Planned	Reliability	
2011	US	WECC	WECC-US	AC	100-120	115	314	11	2018	Sumas WA	Everson WA	10 OH	TBD	TBD	1272	ACSR	TBD			TBD	15500	PSE	I	100	Whatcom County	Planned	Reliability	
2011	US	WECC	WECC-US	AC	100-120	115	TBD	11	2018	Ferndale WA	Custer WA	8 OH	TBD	TBD	1272	ACSR	TBD			TBD	15500	PSE	I	100	King County	Planned	Reliability	
2011	US	WECC	WECC-US	AC	100-120	115	TBD	11	2021	Kenmore WA	Kirkland WA	4 OH	TBD	TBD	1272	ACSR	TBD			TBD	15500	PSE	I	100	North King County	Planned	Reliability	
2011	US	WECC	WECC-US	AC	100-120	115	314	11	2013	Kirkland WA	Sammamish WA	5.2 OH	TBD	TBD	1272	ACSR	TBD			TBD	15500	PSE	I	100	South King County	Planned	Reliability	
2011	US	WECC	WECC-US	AC	100-120	115	314	11	2017	Sumner WA	Auburn WA	2.3 OH	TBD	TBD	1272	ACSR	TBD			TBD	15500	PSE	I	100	South King County	Planned	Reliability	
2011	US	WECC	WECC-US	AC	100-120	115	314	11	2017	Sumner WA	Auburn WA	2.5 OH	TBD	TBD	1272	ACSR	TBD			TBD	15500	PSE	I	100	South King County	Planned	Reliability	
2011	US	WECC	WECC-US	AC	100-120	115	314	11	2017	Federal Way WA	Puyallup WA	6.3 OH	TBD	TBD	1272	ACSR	TBD			TBD	15500	PSE	I	100	South King County	Planned	Reliability	
2011	US	WECC	WECC-US	AC	100-120	115	314	11	2017	Berrydale WA	Enumclaw WA	18 OH	TBD	TBD	1272	ACSR	TBD			TBD	15500	PSE	I	100	South King County	Planned	Reliability	
2011	US	WECC	WECC-US	AC	100-120	115	314	11	2015	Puyallup WA	Lacey WA	15 OH	TBD	TBD	1272	ACSR	TBD			TBD	15500	PSE	I	100	Pierce and Thurston Counties	Planned	Reliability	
2011	US	WECC	WECC-US	AC	100-120	115	TBD	11	2015	Lacey WA	Yelm WA	15 OH	TBD	TBD	TBD	TBD	TBD			TBD	15500	PSE	I	100	Thurston County	Planned	Reliability	
2011	US	WECC	WECC-US	AC	100-120	115	314	11	2017	Renton WA	Bellevue WA	7 OH	TBD	TBD	1272	ACSR	TBD			TBD	15500	PSE	I	100	King County	Planned	Reliability	
2011	US	WECC	WECC-US	AC	100-120	115	314	11	2017	Berrydale WA	Snoqualmie WA	10 OH	TBD	TBD	1272	ACSR	TBD			TBD	15500	PSE	I	100	King County	Planned	Reliability	
2011	US	WECC	WECC-US	AC	200-299	230	TBD	10	2013	Lacey WA	Lacey WA	10 OH	TBD	TBD	TBD	TBD	TBD			TBD	15500	PSE	I	100	Thurston County	Planned	Reliability	
2011	US	WECC	WECC-US	AC	200-299	230	733	10	2014	Sumner WA	Puyallup WA	8 OH	TBD	TBD	1590	ACSR	TBD			TBD	15500	PSE	I	100	Pierce County	Planned	Reliability	
2011	US	WECC	WECC-US	AC	200-299	230	TBD	11	2017	Sammamish WA	Renton WA	16 OH	TBD	TBD	TBD	TBD	TBD			TBD	15500	PSE	I	100	King County	Planned	Reliability	

Table 6. Proposed high-voltage transmission line additions filed covering calendar Year 2011, by North American Electric Reliability Corporation, 2012 through 2021 (cont.)

	Geographic Area			Voltage		Capacity		In-Service		Electrical Connection		Locations		Line Information		Conductor Characteristics		Circuits		Company Information				Project Information				
Data Year	Country	NERC Region	NERC Sub-region	Type	Operating (kV)	Design (kV)	Rating (MVA)	Month	Year	From Terminal	To Terminal	Length (Miles)	Type	Pole Type	Pole Material	Size (MCM)	Material	Bundling Arrangement	Present	Ultimate	Company Code	Company Name	Organizational Type	Ownership (Percent)	Project Name	Level of Certainty	Primary Driver 1	Primary Driver 2
2011	US	WECC	WECC-US	AC	300-399	345	1195	6	2022	Red Rock, AZ	Marana, AZ	15 OH	P	S	954	ACSS	2		1	24211	TEP	I	TBD	Tortolita - North Loop 345 kV	Conceptual	Other	Other	
2011	US	WECC	WECC-US	AC	300-399	345	1195	6	2022	Vail, AZ	Sahuarita, AZ	14 OH	P	S	954	ACSS	2		1	24211	TEP	I	TBD	Vail - South 345 kV	Conceptual	Other	Other	
2011	US	WECC	WECC-US	AC	300-399	345	1195	6	2022	Springerville, AZ	Greenlee, AZ	110 OH	P	S	954	ACSS	2		1	24211	TEP	I	TBD	Springerville - Greenlee 345 kV	Conceptual	Other	Other	
2011	US	WECC	WECC-US	AC	300-399	345	1195	6	2022	Red Rock, AZ	Sahuarita, AZ	68 OH	P	S	954	ACSS	2		1	24211	TEP	I	TBD	Tortolita - South 345 kV	Conceptual	Other	Other	
2011	US	WECC	WECC-US	AC	400-599	500	TBD	6	2022	Red Rock, AZ	Benson, AZ	80 OH	TBD	TBD	TBD	TBD	TBD		1	24211	TEP	i	TBD	Tortolita - Winchester 500 kV	Conceptual	Other	Other	
2011	US	WECC	WECC-US	AC	400-599	345 or 500	TBD	6	2022	Phoenix, AZ	Sahuarita, AZ	68 OH	TBD	TBD	TBD	TBD	TBD		1	24211	TEP	I	TBD	Westwing - South #2	Conceptual	Other	Other	
2011	US	WECC	WECC-US	AC	400-599	500	1732	5	2014	Nine Mile Corner, AZ	Red Rock, AZ	38 OH	P	S	1590	ACSR	3		1	24211	TEP	I	TBD	Pinal Central - Tortolita 500 kV	Planned	Reliability	Economics or Congestion	
2011	US	WECC	WECC-US	AC	100-120	115	163	5	2012	Hughson	Grayson	11.5 OH	P	W/S	954	AA	1		2	19281	TID	O	1	Hughson-Grayson	Planned	Economics / Congestion	Economics or Congestion	
2011	US	WECC	WECC-US	AC	100-120	115	163	5	2012	Grayson	Taylor	16 OH	P	W/S	954	AA	1		2	19281	TID	O	1	Hughson-Grayson	Planned	Economics / Congestion	Economics or Congestion	
2011	US	WECC	WECC-US	AC	100-120	115	163	3	2012	Almond	Grayson	0.3 OH	P	S	954	AA	1		2	19281	TID	O	1	Almond 2 PP	Under Construction	Economics / Congestion	Economics or Congestion	
2011	US	WECC	WECC-US	AC	100-120	115	166	12	2016	Pagosa Springs, CO	To Be Determined	37 OH		To Be Determined	W	477	ACSR	1		1 1	30151	TSGT	C	50	Pagosa-Ignacio 115 kV Line	Conceptual	Reliability	Economics or Congestion
2011	US	WECC	WECC-US	AC	100-120	115	166	12	2016	Montrose, CO	Montrose County, CO	8 OH		To Be Determined	W	477	ACSR	1		1 1	30151	TSGT	C	50	East Montrose-South Canal 115 kV Line	Conceptual	Reliability	Economics or Congestion
2011	US	WECC	WECC-US	AC	200-299	230		12	2018	So. of Gladstone, NM	Santa Rosa, NM	80 OH				1272	ACSR				030102	TSGT	C	1	Santa Rosa-Gladstone 230kV Tie Line	Conceptual	Reliability	Economics or Congestion
2011	US	WECC	WECC-US	AC	300-399	345		12	2018	Lamar, CO area	Denver, CO area	500 OH				1271	ACSR				30151	TSGT		50	Lamar - Front Range Transmission Project	Conceptual	Reliability	Economics or Congestion
2011	US	WECC	WECC-US	AC	300-399	345		12	2018	Lamar, CO area	Denver, CO area	500 OH				1271	ACSR				30151	TSGT		50	Lamar - Front Range Transmission Project	Conceptual	Reliability	Economics or Congestion
2011	US	WECC	WECC-US	AC	100-120	115	166	12	2012	Yuma County, CO	To Be Determined	20 OH		To Be Determined	To Be Determined	477	ACSR	1		1 1	30151	TSGT	C	100	Oneok 115 kV Project	Planned	Reliability	Variable/Renewable Integration
2011	US	WECC	WECC-US	AC	100-120	115	166	12	2012	Brighton, CO	Brighton, CO	4 OH	T	S	477	ACSR	1		1 1	30151	TSGT	C	100	Bromley-Prairie Center 115 kV Line	Planned	Reliability	Economics or Congestion	
2011	US	WECC	WECC-US	AC	100-120	115		12	2013	Plaza, CO	Waverly, CO	30.5 OH				795	ACSR				30151	TSGT		100	Plaza - Waverly 69 - 115 kV conversion	Planned	Reliability	Variable/Renewable Integration
2011	US	WECC	WECC-US	AC	200-299	230		3	2013	Limon, CO	south of Colorado Springs, CO	56 OH				1272	ACSR				30151	TSGT		100	Big Sandy-Lincoln-Midway 230kV Line	Planned	Reliability	Variable/Renewable Integration
2011	US	WECC	WECC-US	AC	200-299	230	613	9	2015	Shiprock, NM	La Plata County, CO	40 OH	T	S	1272	ACSR	1		1 2	030102	TSGT	C	1	Shiprock-Kiffen Canyon 230 kV Line	Planned	Reliability	Economics or Congestion	
2011	US	WECC	WECC-US	AC	200-299	230	613	9	2015	Shiprock, NM	La Plata County, CO	40 OH	T	S	1272	ACSR	1		1 2	30151	TSGT	C	100	Shiprock-Kiffen Canyon 230 kV Line	Planned	Reliability	Economics or Congestion	
2011	US	WECC	WECC-US	AC	200-299	230	613	9	2015	Huerfano County, CO	Pueblo, CO	7 OH	T	S	477	ACSR	1		1 1	30151	TSGT	C / I	40 / 60	Calumet-Walsenburg 230 kV Line	Planned	Reliability	Variable/Renewable Integration	
2011	US	WECC	WECC-US	AC	200-299	345	(2) 613	9	2017	Alamosa County, CO	Huerfano County, CO	93 OH	T	S	1272	ACSR	1		2 2	30151	TSGT	C / I	40 / 60	San Luis Valley-Calumet 230 kV Line	Planned	Reliability	Variable/Renewable Integration	
2011	US	WECC	WECC-US	AC	200-299	345	(2) 613	9	2017	Alamosa County, CO	Huerfano County, CO	93 OH	T	S	1272	ACSR	1		2 2	30151	TSGT	C / I	40 / 60	San Luis Valley-Calumet 230 kV Line	Planned	Reliability	Variable/Renewable Integration	
2011	US	WECC	WECC-US	AC	200-299	230		9	2017	Sidney, NB	Peetz, CO	5 OH				1271	ACSR				30151	TSGT		100	Sidney-Peetz Logan 230kV Line	Planned	Reliability	Variable/Renewable Integration
2011	US	WECC	WECC-US	AC	200-299	230		9	2017	Sidney, NB	Peetz, CO	5 OH				1271	ACSR				30151	TSGT		100	Sidney-Peetz Logan 230kV Line	Planned	Reliability	Variable/Renewable Integration
2011	US	WECC	WECC-US	AC	200-299	230		12	2017	Limon, CO	Calhan, CO	55 OH				1272	ACSR				30151	TSGT		100	Big Sandy - Calhan 230 kV	Planned	Reliability	Other
2011	US	WECC	WECC-US	AC	200-299	230		12	2017	Limon, CO	Calhan, CO	55 OH				1272	ACSR				30151	TSGT		100	Big Sandy - Calhan 230 kV	Planned	Reliability	Other
2011	US	WECC	WECC-US	AC	200-299	230	613	12	2015	Burlington, CO	Wray, CO	56 OH		To Be Determined	To Be Determined	1272	ACSR	1		1 1	30151	TSGT	C	100	Burlington-Wray 230 kV Line	Planned	Economics / Congestion	Reliability
2011	US	WECC	WECC-US	AC	300-399	345	(2) 1700	9	2015	Huerfano County, CO	Pueblo, CO	43 OH	T	S	1272	ACSR	1		2 2	30151	TSGT	C / I	40 / 60	Calumet-Comanche 345 kV Line	Planned	Reliability	Variable/Renewable Integration	
2011	US	WECC	WECC-US	AC	100-120	115	166	6	2012	Richard Lake CO	Wellington CO	8 OH	P	W	477	ACSR	1		1 1	30151	TSGT	C	100	Richard Lake - Waverly 115 kV Line	Under Construction	Reliability	Other	
2011	US	WECC	WECC-US	AC	100-120	230		1	2018	Valley Farms	Oracle	39.5 OH	Monopole	S	1272	ACSS	1		1 2			Western Area Power	F	100	Valley Farms-Oracle	Conceptual	Reliability	



Table 6. Proposed high-voltage transmission line additions filed covering calendar Year 2011, by North American Electric Reliability Corporation, 2012 through 2021 (cont.)

Geographic Area				Voltage		Capacity		In-Service		Electrical Connection		Locations		Line Information				Conductor Characteristics			Circuits			Company Information				Project Information			
Data Year	Country	NERC Region	NERC Sub-region	Type	Operating (kV)	Design (kV)	Rating (MVA)	Month	Year	From Terminal	To Terminal	Length (Miles)	Type	Pole Type	Pole Material	Size (MCM)	Material	Bundling Arrangement	Present	Ultimate	Company Code	Company Name	Organizational Type	Ownership (Percent)	Project Name	Level of Certainty	Primary Driver 1	Primary Driver 2			
2011	US	WECC	WECC-US	AC	100-120	230		1	2020	Tucson	Nogales	20.4	OH	Monopole	S	1272	ACSS	1		1 2		Western Area Power	F	100	Tucson-Nogales	Conceptual	Reliability				
2011	US	WECC	WECC-US	AC	100-120	230		12	2021	Saguaro	Tucson	35.4	OH	Monopole	S	1272	ACSS	1		1 2		Western Area Power	F	100	Saguaro-Tucson	Conceptual	Reliability				
2011	US	WECC	WECC-US	AC	100-120	230		1	2022	Nogales	Apache	59.2	OH	Monopole	S	1272	ACSS	1		1 2		Western Area Power	F	100	Nogales-Apache	Conceptual	Reliability				
2011	US	WECC	WECC-US	AC	100-120	230		1	2022	Saguaro	Oracle		OH	Monopole	S	1272	ACSS	1		1 2		Western Area Power	F	100	Saguaro-Oracle	Conceptual	Reliability				
2011	US	WECC	WECC-US	AC	100-120	230		1	2015	Coolidge	Valley Farms	5.2	OH	Monopole	S	1272	ACSS	1		1 2		Western Area Power	F	100	Coolidge-Valley Farms	Conceptual	Reliability				
2011	US	WECC	WECC-US	AC	100-120	230		1	2016	ED5	Saguaro	17.1	OH	Monopole	S	1272	ACSS	1		1 2		Western Area Power	F	100	ED5-Saguaro Northern	Conceptual	Reliability				
2011	US	WECC	WECC-US	AC	100-120	230		1	2016	ED5	Saguaro	17	OH	Monopole	S	1272	ACSS	1		1 2		Western Area Power	F	100	ED5-Saguaro Southern	Conceptual	Reliability				
2011	US	WECC	WECC-US	AC	151-199	230		1	2016	Parker	Headgate Rock	14	OH	Monopole	S	1272	ACSS	1		1 2		Western Area Power	F	100	Parker-Headgate Rock	Conceptual	Reliability				
2011	US	WECC	WECC-US	AC	151-199	230		1	2016	Headgate Rock	Bouse	18	OH	Monopole	S	1272	ACSS	1		1 2		Western Area Power	F	100	Headgate Rock-Bouse	Conceptual	Reliability				
2011	US	WECC	WECC-US	AC	100-120	230		6	2012	Empire	ED5	9.2	OH	Monopole	S	1272	ACSS	1		1 2		Power	F	100	Empire-ED5	Planned	Reliability				
2011	US	WECC	WECC-US	AC	100-120	230		1	2013	ED4	ED5	9.1	OH	Monopole	S	1272	ACSS	1		1 2		Power	F	100	ED4-ED5	Planned	Reliability				
2011	US	WECC	WECC-US	AC	100-120	230		4	2014	ED4	ED2	9.2	OH	Monopole	S	1272	ACSS	1		1 2		Power	F	100	ED4-ED2	Planned	Reliability				
2011	US	WECC	WECC-US	AC	100-120	230		8	2012	Casa Grande	Empire	13.2	OH	Monopole	S	1272	ACSS	1		1 2		Power	F	100	Empire	Construction	Reliability				