

Appendices A, B, C: Project Facility Table 9/7/2011

Target Appendix	Region	Geographic Location by TO Member System	ProjID	Facility ID	Expected ISD	From Sub	To Sub	Ckt	Max kV	Min kV	Facility Rating	Facility Description	State	Miles Upg	Miles New	Plan Status	Estimated Cost	Cost Shared	Postage Stamps	MISO Facility	App ABC
A in MTEP08	West	ITCM	1640	2754	12/31/2013	Wellsburg	transformer	1	115	69	50 MVA	REMOVE transformer branch	IA			Planned	\$0			Y	A
A in MTEP08	West	ITCM	1640	2736	12/31/2013	Iowa Falls Industrial Tap	3-terminal line	1	161		262/262 MVA	Iowa Falls Industrial Tap bus (3-terminal line) will be eliminated.	IA	0	0	Planned	\$0			Y	A
A in MTEP08	West	ITCM	1640	2740	12/31/2013	Eldora	Iowa Falls Industrial Tap	1	115			REMOVE model branch	IA	1.21	0	Planned	\$0			Y	A
A in MTEP08	West	ITCM	1640	2749	12/31/2013	Wellsburg	transformer	1	161	69	100 MVA	Upgrade 115kV xfmr to 161kV	IA			Planned	\$1,500,000			Y	A
A in MTEP08	West	ITCM	1640	2750	12/31/2013	Eldora	transformer	1	115	34	20 MVA	REMOVE transformer branch	IA			Planned	\$0			Y	A
A in MTEP08	West	ITCM	1640	2733	12/31/2013	Wellsburg	Eldora	1	161		326/326 MVA	Rebuild Wellsburg-Eldora 115kV to 161kV line.(operate at 115 kV until 2013 conversion completion)	IA	11	0	Planned	\$5,500,000			Y	A
A in MTEP08	West	ITCM	1640	2732	12/31/2013	Marshalltown	Wellsburg	1	161		326/326 MVA	Rebuild 115kV to 161kV line (operate at 115 kV until 2013 conversion completion)	IA	23.8	0	Planned	\$6,900,000			Y	A
A in MTEP08	West	ITCM	1640	2738	12/31/2013	Marshalltown	Wellsburg	1	115			REMOVE model branch	IA	27	0	Planned	\$0			Y	A
A in MTEP08	West	ITCM	1645	2759	12/31/2011	Leon	Cap Bank	1	69		7.2 MVAR	new 69kV Cap Bank	IA			Planned	\$2,511,808			NT	A
A in MTEP08	West	ITCM	1744	3546	12/31/2016	Maquoketa	Grand Mound	1	161		326/326 MVA	Reconductor	IA	14.5		Planned	\$10,150,000			Y	A
A in MTEP08	West	ITCM	1747	3554	5/31/2011	Elk	transformer	1	161	69	100 MVA	Upgrade transformer	MN			Under Construction	\$3,049,198			Y	A
A in MTEP08	West	ITCM	1747	5534	12/31/2011	Elk	substation		161	69		Add a 161kV Elk bus tie breaker and 161kV breaker on the line to Brewster and add new control building.	MN			Under Construction	\$900,000			Y	A
A in MTEP08	West	ITCM	1747	3555	12/31/2011	Elk	transformer	2	161	69	100 MVA	Upgrade transformer	MN			Under Construction	\$3,049,198			Y	A
A in MTEP08	West	ITCM	2108	2821	10/31/2011	G358 GSU Substation	new switching station	1	161	34.5		Facilities, excluding the Transmission Owner Interconnection Facilities, required for a 4 terminal, 3 breaker switching station	MN			Planned	\$3,600,000	Y		Y	A
A in MTEP08	West	ITCM	2108	2822	10/31/2011	Winnebago	WinnCo	1	161			Transmission line taps to new 161 kV switching station.	MN			Planned	\$250,000	Y		Y	A
A in MTEP08	West	ITCM	2108	4030	10/31/2011	Microwave communication network						Upgrade Transmission Owner's microwave communication network	MN			Planned	\$200,000	Y		Y	A
A in MTEP08	West	ITCM	2108	2824	10/31/2011	WinnCo	substation	1	161			Upgrade Winnebago Junction substation relays and carrier to accommodate the new switching station	MN			Planned	\$56,848	Y		Y	A
A in MTEP08	West	ITCM	2108	2823	10/31/2011	Winnebago Junction	substation	1	161			Upgrade Winnebago Junction substation relays and carrier to accommodate the new switching station	MN			Planned	\$110,000	Y		Y	A
A in MTEP06	West	ITCM	1289	2120	3/30/2012	Belle Plaine	Stoney Point	1	115		233/233	Rebuild	IA	27		Under Construction	\$8,208,000			Y	A
A in MTEP06	West	ITCM	1289	6411	12/31/2013	Belle Plaine	terminal equipment		161			Replace BKR's 1420 & 1430	IA			Planned	\$580,000			Y	A
A in MTEP06	West	ITCM	1289	6412	12/31/2013	Stoney Point	terminal equipment		161			Replace BKR's 1410, 3250, & 3630	IA			Planned	\$2,200,000			Y	A
A in MTEP06	West	ITCM	1289	6413	12/31/2013	Marshalltown	terminal equipment		161			Replace BKR postion 1450	IA			Planned	\$365,000			Y	A
A in MTEP06	West	ITCM	1289	6414	12/31/2013	Toledo	terminal equipment		161			Add BKR's	IA			Planned	\$2,300,000			Y	A
A in MTEP06	West	ITCM	1342	5632	12/31/2014	Lewis Fields	new 161-115 kV Substation	1	161		558 MVA	Add breakers & associated equipment(bus, control building, relays, etc.) for the new 161-115 kV Lewis Fields substation.	IA			Planned	\$4,300,000			Y	A
A in MTEP06	West	ITCM	1342	2209	12/31/2014	Lewis Fields	transformer	1	161	115	250/250 MVA	new transformer	IA			Planned	\$6,200,000			Y	A
A in MTEP06	West	ITCM	1342	4902	12/31/2014	Hiawatha	new 161 kV line terminal	1	161		558 MVA	Add 161 kV breaker & associated equipment for the new 161 kV line terminal to Lewis Fields.	IA			Planned	\$500,000			Y	A
A in MTEP06	West	ITCM	1342	2208	12/31/2014	Lewis Fields	Hiawatha	1	161		326/326 MVA	new line	IA		8.5	Planned	\$8,151,600			Y	A
A in MTEP06	West	ITCM	1342	5633	12/31/2014	Lewis Fields	Transformer	1	161	115	250 MVA	Install new 161-115 kV transformer	IA			Planned	\$1,900,000			Y	A
A in MTEP06	West	ITCM	1344	5391	12/31/2014	Arnold	Morgan Valley	1	161		326 MVA	Tap the Arnold-Fairfax 161kV line for in and out at Morgan Valley	IA			Planned	\$150,000			Y	A
A in MTEP06	West	ITCM	1344	5392	12/31/2014	Morgan Valley	Fairfax	1	161		326 MVA	Tap the Arnold-Fairfax 161kV line for in and out at Morgan Valley	IA			Planned	\$150,000			Y	A
A in MTEP06	West	ITCM	1344	2212	12/31/2014	Morgan Valley	transformer	1	345	161	335	new substation	IA			Planned	\$8,750,000			Y	A
A in MTEP06	West	ITCM	1344	2211	12/31/2014	Morgan Valley	Beverly	1	161		335	new line	IA		7.9	Planned	\$5,530,000			Y	A
A in MTEP09	West	MDU	1355	2242	9/30/2011	Heskett	Additional 230/115 kV Switchyard		230	115	200 MVA	Switchyard in parallel w/ existing Heskett switchyard	ND			Planned	\$9,500,000	Y		Y	A
A in MTEP09	West	MDU	1355	2241	12/31/2014	Heskett	Capacitor		115		30 MVAR		ND			Planned	\$1,500,000	Y		Y	A

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A in MTEP10	West	MP	2547	4558	6/30/2012	Essar steel plant sub (McCarthy Lake)	Substation Equipment		230	14	166	Essar Substation high side equipment	MN			Under Construction	\$3,700,000			Y	A	
A in MTEP10	West	MP	2547	4559	6/30/2012	Essar Mine Sub (Calumet)	Substation Equipment		230	14	166	Essar Substation high side Equipment	MN			Under Construction	\$4,000,000			Y	A	
A in MTEP10	West	MP	2547	4560	6/30/2012	Essar Mine Sub (Calumet)	Essar steel plant sub (McCarthy Lake)	1	230		465	Essar new Line	MN		2.5	Planned	\$2,200,000			Y	A	
A in MTEP10	West	MP	2547	4556	6/30/2012	Essar Steel Sub (McCarthy Lake)	Shannon	1	230		423	Essar 94L Line reroute	MN			8	Planned	\$4,100,000			Y	A
A in MTEP10	West	MP	2547	4555	6/30/2012	Boswell	Essar Mine Sub (Calumet)	1	230		423	Essar Line 94L Line reroute	MN			16	Planned	\$6,100,000			Y	A
A in MTEP10	West	MP	2547	4557	7/30/2014	Blackberry	Essar Steel Sub (McCarthy Lake)	1	230		465	Essar new Line and new bay at McCarthy Lake (facility #4558)	MN			16	Planned	\$12,900,000			Y	A
A in MTEP10	West	MP	2547	5438	7/30/2014	Blackberry	Substation Equipment		230	14	465	line entrance & breaker	MN			Planned	\$1,100,000			Y	A	
A in MTEP10	West	MP	2761	4780	12/30/2012	Dunka Road	Substation Equipment		115	14	15	Substation Equipment & Transformer	MN			Planned	\$3,000,000			Y	A	
A in MTEP10	West	MP	2762	4776	12/16/2012	Airpark	Substation Equipment		115	34.5	39	Substation Equipment & Transformer	MN			Under Construction	\$2,100,000			Y	A	
A in MTEP10	West	MP	2762	4778	6/30/2013	Airpark	Substation Equipment		115	14	39	Substation Equipment & Transformer	MN			Under Construction	\$2,005,000			Y	A	
A in MTEP10	west	MP	3091	5409	5/30/2012	Boswell	Nashwauk	1	115		144	reroute existing MP Line #28	MN		7.5	planned	\$3,190,000			Y	A	
A in MTEP09	West	MP	2552	4554	12/1/2012	Skibo	Hoyt Lakes	1	138		202	new line	MN		3	Planned	\$2,540,000			Y	A	
A in MTEP09	West	MP	2759	4782	6/1/2012	Laskin	Substation Equipment		115	46	28	Substation Transformer	MN			Planned	\$500,000			Y	A	
A in MTEP09	West	MP	2763	4779	8/30/2011	LSPI	Substation Equipment		115	34.5	30	Substation Equipment & Transformer	MN			Under Construction	\$600,000			Y	A	
A in MTEP07	West	MP	1025	2663	7/1/2012	Swatara 230/115 kV	transformer		230	115		New 230/115 kV Swatara Substation	MN			Planned	\$8,817,640	Y		Y	A	
A in MTEP07	West	MP	1025	2659	7/1/2012	Blackberry 230			230			Blackberry Sub: 3 each-230 kV circuit breakers, 9 each-230 kV air break switches, structural steel, bus work and control equipment	MN			Planned	\$3,163,583	Y		Y	A	
A in MTEP07	West	MP	1025	2661	7/1/2012	Swatara 230	Riverton 230		230			Swatara to Riverton 33.2 Miles	MN			Planned	\$24,878,937	Y		Y	A	
A in MTEP07	West	MP	1025	2662	7/1/2012	Blackberry 230 kV sub			230			230 kV Bus Position for Boswell-Riverton Line at Boswell	MN			Planned	\$3,017,108	Y		Y	A	
A in MTEP07	West	MP	1025	2664	7/1/2012	Riverton 230 kV sub			230			230 kV Bus Position for Boswell-Riverton Line at Riverton	MN			Planned	\$2,372,682	Y		Y	A	
A in MTEP07	West	MP	1025	2660	7/1/2012	Boswell 230	Swatara 230		230			Boswell to Swatara 34.6 Miles	MN			Planned	\$34,069,591	Y		Y	A	
A in MTEP05	West	MP	600	2943	2/28/2012	Scearcyville	switching station		115			new switching station	MN			Under Construction	\$2,200,000			Y	A	
A in MTEP10	West	MPC, XEL, OTP, M	3156	5540	12/31/2013	Helga 115 kV	Bemidji 115 kV	1	115	115	144	Structural Improvements	MN	7.67		Planned	\$66,000	Y		Y	A	
A in MTEP10	West	MPC, XEL, OTP, M	3156	5537	12/31/2013	Cass Lake 115 kV	Nary 115 kV	1	115	115	200	Reconductor 115 kV transmission line	MN	11.05		Planned	\$3,900,000	Y		Y	A	
A in MTEP10	West	MPC, XEL, OTP, M	3156	5539	12/31/2013	Nary 115 kV	Helga 115 kV	1	115	115	144	Structural Improvements	MN	4.96		Planned	\$33,000	Y		Y	A	
A in MTEP06	West	MPC, XEL, OTP, M	279	1098	12/31/2012	Boswell	Wilton	1	230		495	Add a new 230 kV line between Boswell and Wilton	MN		72	Planned	\$98,530,747	Y		Y	A	
A in MTEP10	West	MPC, XEL, OTP, MP	3156	3584	12/31/2012	Cass Lake 230 kV	Cass Lake 115 kV	1	230	115	187 MVA	Add a 230/115 kV Transformer at Cass Lake	MN			Planned	\$6,400,000			Y	A	
A in MTEP10	West	MPW	2934	5106	6/1/2014	South 161/69 kV	transformer	1	161	69	134	Replace 75 MVA transformer	IA			Planned	\$5,400,000			Y	A	
A in MTEP10	West	NWE	3092	5410	6/1/2011	Lake 26	Webb Lake		69		15	Rebuild 34.5KV line to Webb Lake at 69KV with horizontal post construction and #4/0 ACSR	WI	2.6	0	Planned	\$425,000			Y	A	
A in MTEP08	West	NWE	2011	3992	6/1/2011	Frederic	Lewis		69		31	Rebuild the 34.5Kv system between Frederic and Lewis sub at 69KV with 477ASCR and horizontal post construction.	WI	2.8	0	Planned	\$350,000			Y	A	
A in MTEP08	West	NWE	2012	3993	9/1/2011	Falun	Penta		69		47	Rebuild the 34.5Kv system between Falun and Penta sub at 69KV with 477ASCR and horizontal post construction.	WI	4.3	0	Under Construction	\$538,000			Y	A	
A in MTEP08	West	NWE	2013	3994	6/1/2011	Penta	Siren Tap		69		15	Rebuild the 34.5Kv system between Penta sub and Siren Tap at 69KV with 477ASCR and horizontal post construction.	WI	1.4	0	Planned	\$175,000			Y	A	
A in MTEP08	West	NWE	2016	3997	1/1/2012	Frederic	Coffee Cup		69		84	Reconductor 69KV line with 477ASCR	WI	2	0	Planned	\$100,000			Y	A	

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A in MTEP08	West	NWE	2018	3999	6/1/2011	Eureka Tap	Centuria		69	12.5		Build new 69KV line to Centuria and build Distribution Sub	WI	0	4	Planned	\$1,200,000			Y	A
A in MTEP09	West	OTP	2751	4774	12/31/2013	New Perham	distribution sub		115	12.5	14 MVA	Build New 115/12.5 kV Substation at Perham to Serve as a Back-up Source for Outage of Primary Source	MN			Planned	\$400,000			Y	A
A in MTEP10	West	OTP, MPC	2826	4966	12/31/2015	Thief River Falls 115 kV	15 MVAR capacitor bank		115		15 MVAR	Install Capacitor Bank on 115 kV at Thief River Falls. One 15 MVAR. Add second bank to existing bank.	ND			Planned	\$950,000			Y	A
A in MTEP10	West	OTP, MPC	2826	4965	12/31/2012	Karlstad 115 kV	14 MVAR capacitor bank		115		14 MVAR	Install Capacitor Bank on 115 kV at Karlstad. One 14 MVAR.	ND			Planned	\$950,000			Y	A
A in MTEP10	West	SMP	2166	4005	12/1/2011	Tap Existing Area Line	New Load Serving Sub at St Peter	1	69	69	72 MVA	Add 7.0 Miles 69kV line and construct new load serving substation at St Peter	MN		7	Under Construction	\$6,000,000			NT	A
A in MTEP10	West	SMP	2167	4006	12/1/2011	Tap Existing Area Line	New Load Serving Sub at Redwood Falls	1	115	115	142 MVA	Add 5.2 Miles 115kV line and construct load serving substation at Redwood Falls	MN		4	Planned	\$4,000,000			NT	A
A in MTEP10	West	SMP	2171	2992	8/1/2011	Mora	generator		12.47		3 MW	additional 3 MW of landfill gas	MN			Under Construction	\$3,700,000			Y	A
A in MTEP09	West	SMP	2178	4970	12/1/2011	Byron	Line termination		161		161kV	Byron - Pleasant Valley 161 kV Line Terminal Improvements	MN			Under Construction	\$715,181	Y		Y	A
A in MTEP10	West	XEL	2767	4795	1/1/2012	Fenton	Transformer	1	115	69	47	new transformer	MN			Planned	\$2,143,430			Y	A
A in MTEP10	West	XEL	2767	4794	1/1/2012	Fenton	in and out between Chandler tap and Lake Wilson	1	69			new line	MN		3	Planned	\$1,566,570			Y	A
A in MTEP10	West	XEL	3097	5424	6/1/2012	Monroe County	Transformer	2	161	69	70	Install 2nd 70 MVA transformer at Monroe County substation	WI			Planned	\$3,680,000	N		Y	A
A in MTEP10	West	XEL	3100	5431	6/1/2012	Westgate	Transformer	2	115	69	70	upgrade to 70 MVA	MN			Planned	\$2,070,000	N		Y	A
A in MTEP09	West	XEL	1952	3833	12/1/2011	Plato Cap Bank	Cap Bank		69		10 MVAR	New 10 MVAR cap bank at Lester Prairie	MN			Planned	\$700,000			NT	A
A in MTEP09	West	XEL	2157	2966	11/1/2011	Douglas Co	Transformer	2	115	69	70	2nd 115/69 kV transformer at	MN			Planned	\$4,435,000			NT	A
A in MTEP09	West	XEL	2158	2968	9/30/2011	West Union	Osakis	1	69		84	upgrade using lower impedance line	MN		5.8	Planned	\$1,740,000			NT	A
A in MTEP09	West	XEL	2158	2967	9/30/2011	Sauk Center	West Union	1	69		84	upgrade using lower impedance line	MN		9	Planned	\$2,774,000			NT	A
A in MTEP09	West	XEL	2160	2970	6/1/2012	Park Falls	Transformer	1	115	34.5	47	Upgrade the transformer to higher rating	WI			Planned	\$1,677,900			NT	A
A in MTEP09	West	XEL	2160	2971	6/1/2012	Park Falls	Transformer	2	115	34.5	47	Upgrade the transformer to higher rating	WI			Planned	\$1,677,900			NT	A
A in MTEP09	West	XEL	2178	4021	6/1/2012	Pleasant Valley	Byron	1	161		447 MVA	new 161 kV line from PV to Byron	MN		25	Planned	\$9,292,000	Y		Y	A
A in MTEP09	West	XEL	2307	4225	6/1/2012	Benton Co	Mayhew Lake	1	115		361 MVA	Convert double circuit 115 kV line from Benton Co to St. Cloud tap to bifurcated single circuit, build additional 4 miles of 115 kV line from St. Cloud tap to Mayhew Lake substation.	MN		4	Planned	\$3,000,000	Y		Y	A
A in MTEP09	West	XEL	2307	4226	6/1/2012	St. Cloud	Granite City	1	115		194 MVA	Convert 1 mile of double circuit from St. Cloud tap to Granite City to bifurcated single circuit.	MN			Planned	\$100,000	Y		Y	A
A in MTEP09	West	XEL	2307	4227	6/1/2012	Sauk River	W St. Cloud	1	115		361 MVA	Upgrade line to 361 MVA	MN	1.4		Planned	\$1,000,000	Y		Y	A
A in MTEP09	West	XEL	2307	4228	6/1/2012	Mayhew Lake substation	Breakers		115			Upgrade to 115 kV ring bus	MN			Planned	\$2,000,000	Y		Y	A
A in MTEP09	West	XEL	2308	4236	9/1/2011	Lowry tap	Glenwood (XCEL)	1	69		100 MVA	Upgrade to 477 ACSR	MN	0.04		Planned	\$17,058			NT	A
A in MTEP09	West	XEL	2308	4235	9/1/2011	Glenwood (GRE)	Lowry tap	1	69		100 MVA	Upgrade to 477 ACSR	MN	2.8		Planned	\$11,941,126			NT	A
A in MTEP09	West	XEL	2308	4234	9/1/2011	Sedan	Glenwood (GRE)	1	69		100 MVA	Upgrade to 477 ACSR	MN	5		Planned	\$2,132,344			NT	A
A in MTEP09	West	XEL	2308	4233	9/1/2011	Grove Lake	Sedan	1	69		100 MVA	Upgrade to 477 ACSR	MN	5.3		Planned	\$2,260,284			NT	A
A in MTEP09	West	XEL	2309	4229	6/1/2012	Maple Lake	Annandale	1	69		100 MVA	Upgrade to 477 ACSR	MN	6		Planned	\$2,487,000			NT	A
A in MTEP09	West	XEL	2772	4838	6/1/2012	Midtown	Sidtribution Substation		115	13.8		New distribution substation	MN			Planned	\$11,120,000			Y	A
A in MTEP09	West	XEL	2772	4836	6/1/2012	Hiawatha	Distribution Substation		115	13.8		New distribution substation Between Elliot Park and Southtown	MN			Planned	\$14,270,000			Y	A
A in MTEP09	West	XEL	2772	4837	6/1/2012	Hiawatha	Midtown	1,2	115		~360	Double Circuit 1.25 mile line	MN		1.25	Planned	\$1,500,000			Y	A
A in MTEP08	West	XEL	675	1364	6/1/2014	Westgate	Scott County	1	115		194 MVA	upgrade line	MN	20.1		Planned	\$14,000,000			Y	A
A in MTEP08	West	XEL	1487	2306	12/31/2011	Somerset	Stanton	1	69		84	New 69 kV line	WI			Planned	\$9,247,500			NT	A
A in MTEP08	West	XEL	1549	2638	9/1/2011	Wheaton	Eau Claire		161		434	Reconductor 4.3 Miles of 161 kV line with 795 ACSS conductor	WI	4.3		Planned	\$645,000			Y	A
A in MTEP08	West	XEL	1549	2633	12/1/2011	Eau Claire	Hallie		161		434	Rebuild 69 kV corridor to 161 kV, convert Hallie Substation to 161 kV	WI	1.5		Planned	\$2,425,000			Y	A

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A in MTEP08	West	XEL	1957	3839	6/1/2012	new sub	London - Madison tap	1	69		84 MVA	Rebuild 69 kV line from London/Madison Tap to new substation	WI			Planned	\$0			NT	A
A in MTEP08	West	XEL	1957	3838	6/1/2012	Southwest of Eau Claire (new sub)	new sub	1	161	69		New 161/69 kV Substation southwest of Eau Claire where Alma - Elk Mound 161 kV line intersects with Shawtown - Naples 69 kV line	WI			Planned	\$7,080,000			Y	A
A in MTEP08	West	XEL	1958	3843	12/1/2012	Edge Water substation	upgrade to 161 kV		161			Convert the Edgewater 69 kV load to the new 161 kV line. Construct 161 kV facilities at Edgewater Substation	WI			Planned	\$0			Y	A
A in MTEP08	West	XEL	1958	3842	12/1/2012	Stone Lake	Edge Water	1	161		434 MVA	New 161 kV line from Stone Lake to Edgewater	WI			Planned	\$26,185,641			Y	A
A in MTEP06	West	XEL	1458	2496	11/30/2011	Yankee	feeders		34.5			four new 50 MW underground feeder lines and all associated equipment	MN			Planned	\$2,202,000			NT	A
A in MTEP09	West	XEL, GRE	2156	2964	6/1/2011	St. Thomas	substation	1	115	69	112	New 115/69 kV substation	MN			Planned	\$5,000,000			NT	A
A in MTEP09	West	XEL, GRE	2156	2963	6/1/2011	Helena	St. Thomas	1	115	115	318	New 6 mile 115 kV line	MN		6	Planned	\$2,750,000			Y	A
A in MTEP09	West	XEL, GRE	2156	2962	6/1/2011	Helena	Transformer	1	345	115	448	New 345/115 kV transformer at Helena substation	MN			Planned	\$7,250,000			Y	A
A in MTEP09	West	XEL, GRE	2156	2965	6/1/2011	Lesueur Tap	substation		69			69 kV switching station at LeSueur	MN			Planned	\$2,450,000			NT	A
A in MTEP08	West	XEL, RPU, SMPA	1024	1677	12/15/2012	North Rochester	Northern Hills	1	161		400	new line and terminal works	MN		12.6	Planned	\$23,068,992	Y		Y	A
A in MTEP08	West	XEL, RPU, SMPA	1024	1675	12/15/2012	North Rochester	Transformer	1	345	161	448	new transformer and terminal works	MN			Planned	\$19,346,751	Y		Y	A
A in MTEP08	West	XEL, RPU, SMPA	1024	2984	12/15/2012	North Rochester	substation	1	345			new substation	MN			Planned	\$6,164,382			Y	A
A in MTEP08	West	XEL, RPU, SMPA	1024	2983	3/31/2013	Hampton Corner and North Rochester	substation	1	345			new substation	MN			Planned	\$9,395,227			Y	A
A in MTEP08	West	XEL, RPU, SMPA	1024	1676	3/31/2014	North La Crosse	Transformer	1	345	161	448	new transformer and terminal works	WI			Planned	\$11,744,034	Y		Y	A
A in MTEP08	West	XEL, RPU, SMPA	1024	2647	3/31/2014	North Rochester	North La Crosse	1	345		2050	new line and terminal works	MN		82	Planned	\$292,987,075	Y	Y	Y	A
A in MTEP08	West	XEL, RPU, SMPA	1024	1678	3/30/2015	North Rochester	Chester	1	161		400	new line	MN		14	Planned	\$11,137,053			Y	A
A in MTEP08	West	XEL, RPU, SMPA	1024	1673	9/30/2015	Hampton Corner	North Rochester	1	345		2050	new line	MN		36	Planned	\$71,156,485			Y	A
B	Central	AmerenIL	1234	1933	6/1/2014	Havana, South	Mason City, West	1	138		160	Increase ground clearance on 18.4 miles	IL	18.4		Proposed	\$642,300			Y	B
B	Central	AmerenIL	1533	2610	12/1/2013	Washington Street	S. Bloomington	1	138		255	Replace terminal equipment at S. Bloomington	IL			Proposed	\$137,000			Y	B
B	Central	AmerenIL	1537	2614	6/1/2013	Mt. Vernon, West	S. Centralia	1	138		146	Replace terminal equipment at S. Centralia	IL			Proposed	\$200,000			Y	B
B	Central	AmerenIL	2114	2839	9/30/2009	Mahomet Substation	Brokaw Substation	1	138			Tapping structures installed inline with line #1376: 138 XX Line Extension 477 MCM 30/7 ACSR, 138 YY Line Extension 477 MCM 30/7 ACSR	IL			Planned	\$237,000	Y		Y	B
B	Central	AmerenIL	2114	2838	12/1/2013	Project IP03 Substation	substation	1	138			New (IP03) 138 kV Straight Bus Interconnection Substation, tap existing line #1376 Mahomet Substation to Brokaw Station.	IL			Planned	\$1,845,000	Y		Y	B
B	Central	AmerenIL	2117	2846	6/1/2014	El Paso	CE Minok	1	138			Tapping structures installed inline with line #1382: 138 kV XX Line Extension 556.5 MCM 26/7 ACSR conductor and 7#8 Alumoweld shield wire, 138 kV YY Line Extension 556.5 MCM 26/7 ACSR conductor and 7#8 Alumoweld shield wire	IL			Planned	\$230,000	Y		Y	B
B	Central	AmerenIL	2117	2845	6/1/2014	Project IP08 Substation	substation	1	138			New 138 kV Straight Bus Interconnection Substation, located north of the tap point to the Transmission Owner's El Paso substation and south of the tap point to the Transmission Owner's CE Minok substation on line #1382.	IL			Planned	\$1,661,464	Y		Y	B
B	Central	AmerenIL	2118	2848	6/1/2014	Oglesby Substation	IP08 Substation	1	138			Line #1382 & #1384: Reconductor 477 MCM 30/7 ACSR with three phase 556.5 MCM 26/7 ACSR conductor.	IL		33.3	Planned		Y		Y	B
B	Central	AmerenIL	2280	4196	6/1/2013	LaSalle	Oglesby Main	1	138		256	Reconductor 477 kcmil ACSR and 336 kcmil ACSR to 1200 A summer emerg.	IL	2.16		Planned	\$900,000			Y	B
B	Central	AmerenMO	2774	4868	11/1/2020	Adair	Wind Farm	1	161			Connect Wind Farm to Adair Sub	MO			Proposed		Y		Y	B

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Target Appendix	Region	Geographic Location by TO Member System	Proj ID	Facility ID	Expected ISD	From Sub	To Sub	Gkt	Max kV	Min kV	Facility Rating	Facility Description	State	Miles Upg	Miles New	Plan Status	Estimated Cost	Cost Shared	Postage Stamp	MISO Facility	App ABC
B	Central	DEM	1521	2597	6/1/2016	Bloomington 230 (terminal equipment)	Bloomington NW		138	191		Replace the 600A 13836 bkr disconnect switches with 2000A switches. New limit 800A Wave Trap.	IN			Planned	\$233,455			Y	B
B	Central	DEM	3381	6254	12/31/2013	Meldahl Dam Gen.	Meldahl Dam Gen. 345kV I-connect Sub	1	345	138		Install interconnection substation for Meldahl Dam generator. Install 3-breaker 345kV ring bus, 345-138kV - 120 MVA transformer, loop Feeder 4545 through new substation. Connect independent generator per MISO requirements.	OH			Planned	\$8,949,798			Y	B
B	Central	DEM, IPL	1558	3109	5/1/2013	Petersburg	Francisco	1	345	1195 MVA		Upgrade to fix 1st contingency for the Wheatland breaker close	IN			Proposed	\$6,420,000			Y	B
B	Central	DEM, IPL	1558	3110	5/1/2013	Petersburg	Thompson	1	345	1195 MVA		Upgrade to fix 1st contingency for the Wheatland breaker close	IN			Proposed	\$5,015,000			Y	B
B	Central	IPL	1557	3107	1/1/2014	Pritchard	Franklin Twp	1	345	956		New	IN		24	Proposed	\$24,000,000			Y	B
B	Central	IPL	1557	3108	1/1/2014	Franklin Twp	Hanna	1	345	1386		New	IN		2.75	Proposed	\$2,750,000			Y	B
B	Central	IPL	1557	3106	1/1/2014	Bloomington	Pritchard	1	345	1386		New	IN		15	Proposed	\$15,000,000			Y	B
B	East	ITC	1850	3732	12/31/2013	Hancock	Wixom	1	230			New Line resulting from Quaker-Wixom cut into Hancock	MI			Proposed				Y	B
B	East	ITC	1850	3733	12/31/2013	Hancock	Quaker	1	230			New Line resulting from Quaker-Wixom cut into Hancock	MI			Proposed				Y	B
B	East	ITC	1850	3734	12/31/2013	Hancock 230/120 kV	Transformer	1	230	120		New Transformer	MI			Proposed	\$9,000,000			Y	B
B	East	METC	2809	336	6/1/2014	Garfield	Hemphill	1	138			Reconductor	MI	9.1		Proposed	\$11,360,000			Y	B
B	East	METC	2809	4453	6/1/2014	Hemphill			138			Relay replacement	MI			Proposed	\$380,000			Y	B
B	East	METC	2822	5408	12/1/2016	Edenville J.	Warren	1	138			Reconductor of the Edenville-Warren 138kV line to 954 ACSR	MI	14.8		Proposed	\$7,000,000			Y	B
B	East	NIPS	3154	5535	12/1/2012	Sheffield	Reactor		138			Add 0.795 Ohm reactor on BP Whiting to Sheffield circuit	IN			Proposed	\$807,141			Y	B
B	West	ATC LLC	544	898	6/1/2015	Bluemound	Capacitor bank		138	225 Mvar		Add 3x75 Cap Banks to 2 Bluemound buses	WI			Conceptual	\$3,463,000			Y	B
B	West	ATC LLC	1269	1988	6/1/2020	Arcadian 345-138kV	transformer	1	345	138 500		replace Arcadian 345/138kV transformer #2 & #3	WI			Conceptual	\$3,500,000			Y	B
B	West	ATC LLC	1270	1990	6/1/2016	Arcadian	Waukesha	1	138	504		Rebuild Ck 1 of Arcadian to Waukesha 138 kV Line	WI	4.06		Proposed	\$7,293,448			Y	B
B	West	ATC LLC	1270	1989	6/1/2016	Arcadian	Waukesha	2	138	504		Rebuild Ck 2 of Arcadian to Waukesha 138 kV Line	WI	3.88		Proposed	\$7,293,448			Y	B
B	West	ATC LLC	1284	2110	6/1/2050	Albers	Tie	1	138			tie 138kv buses at Albers	WI			Conceptual				Y	B
B	West	ATC LLC	1284	2113	6/1/2050	Albers	Somers	1	138	347 MVA		albers-somers w/477-12	WI	3.3		Conceptual				Y	B
B	West	ATC LLC	1284	2112	6/1/2050	Racine	Somers	1	138	347 MVA		somers-racine w/477-12	WI	4.3		Conceptual				Y	B
B	West	ATC LLC	1624	3241	6/1/2022	Portage	Trienda	2	138	277		uprate X-67	WI	3.4		Conceptual				Y	B
B	West	ATC LLC	1687	3463	6/1/2017	Metomen	Transformer	1	138	69 100 MVA		Replace the 138/69 kV transformer at Metomen substation to increase rating	WI			Planned	\$4,700,000			Y	B
B	West	ATC LLC	1946	3825	6/1/2018	Spring Green	transformer	2	138	69 100 MVA		Install a 2nd Spring Green 138-69 kV Transformer	WI			Conceptual	\$1,400,000			Y	B
B	West	ATC LLC	2044	3926	6/1/2017	A13(Quincy)	McKenna	1	69	49 MVA		Increase line clearance to 200 deg F SN/SE	WI	7.6		Conceptual	\$978,011			Y	B
B	West	ATC LLC	2044	3925	6/1/2017	Castle Rock	A13(Quincy)	1	69	49 MVA		Increase line clearance to 200 deg F SN/SE	WI	0.9		Conceptual	\$115,817			Y	B
B	West	ATC LLC	2454	4412	5/1/2012	Melissa	Tayco	1	138	160 MVA		Uprate terminal equip to achieve a 199 MVA SE rating	WI	0.3		Planned	\$12,260			Y	B
B	West	ATC LLC	2454	4411	5/1/2012	Meadows	Melissa	1	138	169 MVA		Increase line clearance to achieve a 198 MVA SE rating	WI	1.1		Planned	\$44,960			Y	B
B	West	ATC LLC	2454	4410	5/1/2012	Kaukauna Central Tap	Meadows	1	138	169 MVA		Increase line clearance to achieve a 198 MVA SE rating	WI	7.8		Planned	\$318,800			Y	B
B	West	ATC LLC	2454	4406	5/1/2012	STNYBRK Wind	generator	W	0.6	98.7 MW		G590 Stony Brook Wind Farm	WI			Planned				Y	B
B	West	ATC LLC	2454	4405	5/1/2012	STNYBRK Wind	substation	1	138			G-T Interconnection From Techumseh Rd 138 kV bus	WI			Planned	\$1,234,700			Y	B
B	West	ATC LLC	3089	5398	1/31/2013	Fitchburg	Syene	1	69	83 MVA		Uprate Fitchburg-Syene-Nine Springs 69kV line to 275 deg F SE clearance	WI	3.7		Proposed	\$4,400,000			Y	B
B	West	ATC LLC	3089	5404	1/31/2013	Nine Springs	substation	1	69	32.66 MVAR		Install 2-16.33Mvar cap banks at Nine Springs 69kV	WI			Proposed				Y	B

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Target Appendix	Region	Geographic Location by TO Member System	Rjt ID	Facility ID	Expected ISD	From Sub	To Sub	CR	Max kV	Min kV	Facility Rating	Facility Description	State	Miles Upd	Miles New	Plan Status	Estimated Cost	Cost Shared	Postage Stamp	MISO Facility	App. ABC	
B	West	ATC LLC	3089	5403	1/31/2013	Royster	AGA TP	1	69		95 MVA	Move AGA load onto Femrite-Royster line creating Femrite-AGA TP-Royster 69kV	WI		2	Proposed				Y	B	
B	West	ATC LLC	3089	5402	1/31/2013	Femrite	AGA TP	1	69		95 MVA	Move AGA load onto Femrite-Royster line creating Femrite-AGA TP-Royster 69kV	WI		1.8	Proposed				Y	B	
B	West	ATC LLC	3089	5401	1/31/2013	AGA TP	Pflaum	1	69		82 MVA	Uprate Royster-AGA TP-Pflaum 69kV line to 275 deg F SE clearance	WI	0.1		Proposed				Y	B	
B	West	ATC LLC	3089	5400	1/31/2013	Royster	AGA Tap	1	69		83 MVA	Uprate Royster-AGA TP-Pflaum 69kV line to 275 deg F SE clearance	WI	1.9		Proposed				Y	B	
B	West	ATC LLC	3089	5399	1/31/2013	Syene	Nine Springs	1	69		82 MVA	Uprate Fitchburg-Syene-Nine Springs 69kV line to 275 deg F SE clearance	WI	2.9		Proposed				Y	B	
B	West	ATC LLC	3118	5468	6/1/2016	South Lake Geneva	North Lake Geneva	1	138		293 MVA	construct a new 138kV line from North Lake Geneva to South Lake Geneva	WI		5	Proposed	\$14,428,632			Y	B	
B	West	ATC LLC	3118	1251	6/1/2016	South Lake Geneva 138-69 kV	Transformer	1	138	69	100 MVA	Install new South Lake Geneva 138-69kV Transformer	WI			Proposed	\$1,973,000			Y	B	
B	West	GRE	2098	2993	4/1/2013	RDF	Daytonport	1	69		78 MVA	Upgrade of RDF - Daytonport to at least 78 MVA	MN	3.7		Proposed	\$1,377,324			Y	B	
B	West	GRE	2098	2804	4/1/2013	Elk River #14 substation	Bunker Lake Distribution	1	230		271	Upgrade of Elk River #14 substation - Bunker Lake Distribution 230 kV to at least 271 MVA.	MN	14.3		Proposed	\$4,894,756			Y	B	
B	West	ITCM	1147	5386	12/31/2011	Triboji	Upgrades				161	Upgrade Triboji to 4 breaker ring bus	IA			Planned	\$2,300,000			Y	B	
B	West	ITCM	1147	5387	12/31/2011	Cayler	Switch Station				161	New switch station (paid for by customer) tapping the Dickinson Co-Wisdom 161kV line	IA			Planned	\$0			Y	B	
B	West	ITCM	1741	4027	12/31/2012	Communication System Upgrades					161		MN			Planned	\$400,000	Y		Y	B	
B	West	ITCM	1741	4026	12/31/2012	Heron Lake Substation					161		MN			Planned	\$4,195,530	Y		Y	B	
B	West	ITCM	1741	4025	12/31/2012	Cottonwood County substation					161		MN			Planned	\$4,833,216	Y		Y	B	
B	West	ITCM	1741	4028	12/31/2012	South Storden	Cottonwood County	1	161				MN			Planned	\$4,092,575	Y		Y	B	
B	West	ITCM	1741	3292	12/31/2012	Heron Lake	South Storden	1	161		440	Rebuild line to higher capacity	MN			Planned	\$6,818,660	Y		Y	B	
B	West	ITCM	1741	2235	12/31/2012	Storden (Cottonwood County)	Dotson	1	161		446	New line	MN	26		Planned	\$16,379,839	Y		Y	B	
B	West	MDU	1148	1798	12/31/2012	Java (Glenham)	generator				115	1 39	new generator	SD			Planned				Y	B
B	West	MDU	1153	1803	9/1/2012	Crownbutte Wind (Gascoyne)	generator and associated network upgrades				115	1 19	new generator	ND			Planned				Y	B
B	West	MDU	3083	5365	10/1/2014	North Dickinson	2 PCB				115		Complete North Dickinson bus	ND			Planned	\$1,200,000			Y	B
B	West	MDU	3083	5366	10/1/2014	West Dickinson	115/41.6 kV transformer	1	115	41.6	60		New transformer & substation	ND			Planned	\$7,400,000			Y	B
B	West	MDU	3083	5367	10/1/2014	Dickinson Basin	1 PCB				115		Add terminal for new loop line	ND			Planned	\$550,000			Y	B
B	West	MDU	3083	5364	10/1/2014	North Dickinson	Dickinson West	1	115		120		New line Segment	ND		3	Planned	\$750,000			Y	B
B	West	MDU	3083	5363	10/1/2014	Dickinson Basin	Dickinson West	1	115		120		New line Segment	ND		5	Planned	\$1,250,000			Y	B
B	West	MEC	2937	5112	6/1/2014	Sub 39	Transformer	2	345	161	560		Add 2nd 345-161 kV xfmr	IL			Proposed	\$14,500,000			Y	B
B	West	MEC	2938	5113	6/1/2014	Sub 39	Cordova	1	345		1471		Uprate 345 kV line structures	IL	15.5		Proposed	\$400,000			Y	B
B	West	MEC	2939	5115	6/1/2016	Raun					345		Terminal at the MEC Raun Substation	IA			Proposed	\$1,300,000			Y	B
B	West	MEC	2939	5116	6/1/2016	WAPA Sioux City					345		Terminal at the WAPA Sioux City Substation	IA			Proposed	\$1,300,000			Y	B
B	West	MEC	2939	5114	6/1/2016	Raun	WAPA Sioux City	1	345				New 345 kV line between Raun and WAPA Sioux City	IA		23	Proposed	\$25,800,000			Y	B
B	West	MP	1292	2123	12/1/2012	ETCO	Forbes	1	115		122/134		Increase ground clearance	MN			Planned	\$400,000			Y	B
B	West	OTP	549	1530	12/1/2015	Jamestown	Reactor				115		Add a 1 x 25 MVA reactor at OTP Jamestown substation	ND			Proposed	\$250,000			Y	B
B	West	OTP	585	589	12/31/2013	Pelican Rapids	Pelican Rapids Turkey Plant	1	115		85		Convert an existing 41.6 kV line to 115 kV	MN	2.5		Planned	\$858,869			Y	B
B	West	OTP	2824	4962	12/31/2014	Hensel 115 kV	Hensel 69/41.6 kV				115	41.6	2 x 15 MVAR	ND			Proposed	\$750,000			Y	B

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B	West	XEL	2107	2820	4/2/2009	G520 Substation	new substation	1	115	34.5		Install new 3-position 115 kV substation with breakers, switches, buswork, steel, foundations, control house and associated equipment. Install new loop in-and-out tap, 3.5 miles of double circuit, 115 kV transmission line.	MN		3.5	Planned	\$5,930,926	Y		Y	B
B	West	XEL	2115	2841	9/1/2010	Chanarambie	Lake Yankton	1	115			Three spans of the existing 115 kV transmission line between Chanarambie and Lake Yankton will be relocated immediately outside of the Chanarambie substation to accommodate the expansion of the substation for G491.	MN			Planned	\$58,152	Y		Y	B
B	West	XEL	2115	2840	9/1/2010	Chanarambie Substation	substation upgrades	1	115			G491: three new 115 kV breakers and disconnect switches, control house expansion, structural steel and foundations associated with this new equipment, control and protection equipment associated with these new installations	MN			Planned	\$4,305,000	Y		Y	B
B	West	XEL	3099	5429	6/1/2013	Franklin	Transformer	1	115	69	70	upgrade to 70 MVA	MN			Planned	\$2,400,000	N		Y	B
B	West	XEL	3099	5430	6/1/2013	Franklin	Transformer	2	115	69	70	upgrade to 70 MVA	MN			Planned	\$2,400,000	N		Y	B
B in MTEP10	Central	AmerenIL	2964	5163	6/1/2011	ADM North-North 27th Street	Connection to Secure Energy	1	138	1	478	Secure Energy - Provide connection to Secure Energy coal gasification plant with 5 PCB 138 kV ring bus substation. Plant would connect in the Decatur area to ADM North-North 27th Street 138 kV Line 1604 between ADM North and Caterpillar Substations.	IL			Proposed	\$5,966,000			Y	B
B in MTEP10	Central	AmerenIL	2978	5181	6/1/2013	ESK Customer Sub	32 Mvar, 138 kV Capacitor Bank	1	138	32		ESK Customer Substation - Install 32 Mvar, 138 kV capacitor bank to improve customer load power factor.	IL			Proposed	\$1,521,000			Y	B
B in MTEP10	Central	AmerenIL	3200	5760	1/1/2025	Rising	upgrade existing substation		345	138		Add 1 new 345 bay(s) at Existing station. Add 1 new 138 bay(s) at Existing station. Add 1 new 345/138 autotransformer(s).	IL			Conceptual	\$16,100,000			Y	B
B in MTEP10	Central	AmerenIL	3200	5750	1/1/2025	MO-A Station	new substation		345			Add 2 new 345 bay(s) at New station.	MO			Conceptual	\$11,800,000			Y	B
B in MTEP10	Central	AmerenIL	3200	5711	1/1/2025	Goose Creek	Rising	1	345	1195		Equipment upgrade to increase line rating	IL	18		Conceptual	\$27,000,000			Y	B
B in MTEP10	Central	AmerenIL	3202	5902	1/1/2025	IL-K Station	new substation	1	345			Add 2 new 345 bay(s) at New station.	IL			Conceptual	\$11,800,000			Y	B
B in MTEP10	Central	AmerenIL	3202	5935	1/1/2025	Rising	upgrade existing substation	1	345	138		Add 1 new 345 bay(s) at Existing station. Add 1 new 138 bay(s) at Existing station. Add 1 new 345/138 autotransformer(s).	IL			Conceptual	\$16,100,000			Y	B
B in MTEP10	Central	AmerenIL	3202	5925	1/1/2025	Newton	new substation	1	345			Add 2 new 345 bay(s) at New station.	IL			Conceptual	\$11,800,000			Y	B
B in MTEP10	Central	AmerenIL	3202	5908	1/1/2025	Meredosia	new substation	1	345	138		Add 4 new 345 bay(s) at New station. Add 2 new 138 bay(s) at New station. Add 2 new 345/138 autotransformer(s).	IL			Conceptual	\$44,000,000			Y	B
B in MTEP10	Central	AmerenIL	3202	5882	1/1/2025	Fargo	upgrade existing substation	1	345			Add 1 new 345 bay(s) at Existing station.	IL			Conceptual	\$5,900,000			Y	B
B in MTEP10	Central	AmerenIL	3202	5852	1/1/2025	Goose Creek	Rising	1	345	1195		Equipment upgrade to increase line rating	IL	18		Conceptual	\$27,000,000			Y	B
B in MTEP10	Central	AmerenMO	2970	5169	6/1/2012	Apache Flats	AECI Scruggs Delivery Pt.	1	161	558		Apache Flats 161 kV Substation - Install 1-161 kV, 2000 A PCB and necessary metering and relaying to provide a delivery point for Associated Electric's Scruggs 161-69 kV Substation.	MO			Planned	\$1,035,000			Y	B
B in MTEP10	Central	AmerenMO	3200	5726	1/1/2025	Fairport	new substation		765	345		Add 3 new 765 bay(s) at New station. Add 3 new 345 bay(s) at new station. Add 1 new 765/345 autotransformer(s).	MO			Conceptual	\$102,000,000			Y	B
B in MTEP10	Central	AmerenMO	3200	4040	1/1/2025	Montgomery	St. Francois	1	765	3975			MO		103.9	Conceptual	\$332,462,592			Y	B
B in MTEP10	Central	AmerenMO	3200	4062	1/1/2025	St. Francois	upgrade existing substation		765	345		Add 3 new 765 bay(s) at New station. Add 1 new 345 bay(s) at Existing station. Add 1 new 765/345 autotransformer(s).	MO			Conceptual	\$84,300,000			Y	B

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Target Appendix	Region	Geographic Location by TO Member System	Proj ID	Facility ID	Expected ISD	From Sub	To Sub	OKT	Max kV	Min kV	Facility Rating	Facility Description	State	Miles Upg	Miles New	Plan Status	Estimated Cost	Cost Shared	Postage Stamp	MISO Facility	App ABC
B in MTEP10	Central	AmerenMO	3200	4063	1/1/2025	Montgomery	upgrade existing substation		765	345		Add 3 new 765 bay(s) at New station. Add 1 new 345 bay(s) at Existing station. Add 1 new 765/345 autotransformer(s).	MO			Conceptual	\$84,300,000			Y	B
B in MTEP10	Central	AmerenMO	3202	5945	1/1/2025	Thomas Hill	upgrade existing substation	1	345	161		Add 1 new 345 bay(s) at Existing station. Add 1 new 161 bay(s) at Existing station. Add 1 new 345/161 autotransformer(s).	MO			Conceptual	\$16,100,000			Y	B
B in MTEP10	Central	AmerenMO	3202	5933	1/1/2025	Palmyra	new substation	1	345	161		Add 2 new 345 bay(s) at New station. Add 1 new 161 bay(s) at Existing station. Add 1 new 345/161 autotransformer(s).	MO			Conceptual	\$27,800,000			Y	B
B in MTEP10	Central	AmerenMO	3202	5931	1/1/2025	Overton	upgrade existing substation	1	345	161		Add 1 new 345 bay(s) at Existing station. Add 1 new 161 bay(s) at Existing station. Add 1 new 345/161 autotransformer(s).	MO			Conceptual	\$16,100,000			Y	B
B in MTEP10	Central	AmerenMO	3202	5916	1/1/2025	MO-A Station	new substation	1	345			Add 2 new 345 bay(s) at New station.	MO			Conceptual	\$11,800,000			Y	B
B in MTEP10	Central	AmerenMO	3202	5881	1/1/2025	Fairport	new substation	1	345			Add 3 new 345 bay(s) at New station.	MO			Conceptual	\$23,600,000			Y	B
B in MTEP10	Central	AmerenMO	3202	5862	1/1/2025	Adair	new substation	1	345			Add 1 new 345 bay(s) at New station.	MO			Conceptual	\$5,900,000			Y	B
B in MTEP10	Central	ATC LLC	3200	5718	1/1/2025	Bain	upgrade existing substation		345			Add 1 new 345 bay(s) at Existing station.	WI			Conceptual	\$5,900,000			Y	B
B in MTEP10	Central	ATC LLC	3200	5729	1/1/2025	Granville	upgrade existing substation		345	138		Add 1 new 345 bay(s) at Existing station. Add 1 new 138 bay(s) at Existing station. Add 1 new 345/138 autotransformer(s).	IN			Conceptual	\$16,100,000			Y	B
B in MTEP10	Central	DEM	3200	5707	1/1/2025	Kokomo	Tipton	1	230	497		Equipment upgrade to increase line rating	IN	16.8		Conceptual	\$12,600,000			Y	B
B in MTEP10	Central	DEM	3200	5706	1/1/2025	Kokomo	New London	1	230	497		Equipment upgrade to increase line rating	IN	8.28		Conceptual	\$6,210,000			Y	B
B in MTEP10	Central	DEM	3202	5782	1/1/2025	Noblesville	Nucor	1	345	1510			IN		55.56	Conceptual	\$111,120,000			Y	B
B in MTEP10	Central	DEM, IPL	3200	5708	1/1/2025	Whitestown	Guion	1	345	1195		Equipment upgrade to increase line rating	IN	13.44		Conceptual	\$26,880,000			Y	B
B in MTEP10	Central	HE	3202	5909	1/1/2025	Merom	new substation	1	345			Add 3 new 345 bay(s) at New station.	IN			Conceptual	\$23,600,000			Y	B
B in MTEP10	Central	HE, AmerenIL	3202	5781	1/1/2025	Merom	Newton	1	345	1510			IL/IN		50.28	Conceptual	\$77,460,000			Y	B
B in MTEP10	Central	HE, DEM	3202	5780	1/1/2025	Merom	Gwynn	2	345	1510		2nd circuit of double circuit	IN		127.4	Conceptual	\$254,880,000			Y	B
B in MTEP10	Central	IPL	3200	5763	1/1/2025	Stout	upgrade existing substation		345	138		Add 1 new 345 bay(s) at Existing station. Add 1 new 138 bay(s) at Existing station. Add 1 new 345/138 autotransformer(s).	IN			Conceptual	\$16,100,000			Y	B
B in MTEP10	Central	IPL	3200	5732	1/1/2025	Guion	upgrade existing substation		345	138		Add 1 new 345 bay(s) at Existing station. Add 1 new 138 bay(s) at Existing station. Add 1 new 345/138 autotransformer(s).	IN			Conceptual	\$16,100,000			Y	B
B in MTEP10	Central	IPL	3200	5709	1/1/2025	Petersburg	Thompson	1	345	1195		Equipment upgrade to increase line rating	IN	115.68		Conceptual	\$231,360,000			Y	B
B in MTEP10	Central	IPL	3212	5980	1/1/2015	Wheatland	Breed	1	345	1386 MVA		rating upgrade and close Wheatland 345 tie CB	IN			Proposed	\$12,000,000			Y	B
B in MTEP10	Central	LGEE	3202	5851	1/1/2025	Daviess	7HARDIN 345.00	1	345	945		Equipment upgrade to increase line rating	IN	79.2		Conceptual	\$158,400,000			Y	B
B in MTEP10	Central	MIPU, AmerenMO	3200	5660	1/1/2025	Fairport	Montgomery	1	765	3975			MO		205.3	Conceptual	\$656,935,680			Y	B
B in MTEP10	Central	SIGE	3200	5716	1/1/2025	AB Brown	upgrade existing substation		345	138		Add 1 new 345 bay(s) at Existing station. Add 1 new 138 bay(s) at Existing station. Add 1 new 345/138 autotransformer(s).	IN			Conceptual	\$16,100,000			Y	B
B in MTEP10	Central	SIGE	3202	5861	1/1/2025	AB Brown	upgrade existing substation	1	345	138		Add 1 new 345 bay(s) at Existing station. Add 1 new 138 bay(s) at Existing station. Add 1 new 345/138 autotransformer(s).	IN			Conceptual	\$16,100,000			Y	B
B in MTEP10	Central	N AmerenIL, Non-MI	3200	5662	1/1/2025	Fairport	MO-A Station	2	345	1510		2nd circuit of double circuit	MO	50.93		Conceptual	\$117,144,060			Y	B
B in MTEP10	Central	N AmerenIL, Non-MI	3200	5659	1/1/2025	Meadow Lake	IN-E Station	1	345	1510			IN	25.31		Conceptual	\$50,621,760			Y	B
B in MTEP10	Central	N AmerenMo Non-MI	3202	5783	1/1/2025	Fairport	Adair	1	345	1510			MO		111.2	Conceptual	\$100,116,000			Y	B
B in MTEP10	Central	N CE, AmerenIL	3200	5685	1/1/2025	IL-F Station	IN-E Station	1	345	1510			IL/IN		55.7	Conceptual	\$86,171,688			Y	B
B in MTEP10	Central	N Non-MISO	3202	5778	1/1/2025	Greentown	Blue Creek	1	765	3975			IN/OH		72.36	Conceptual	\$202,608,000			Y	B
B in MTEP10	Central	N Non-MISO	3202	5784	1/1/2025	Fairport	MO-A Station	2	345	1510		2nd circuit of double circuit	MO		50.88	Conceptual	\$117,024,000			Y	B
B in MTEP10	DEM	DEM	3202	5888	1/1/2025	Greentown	upgrade existing substation	1	765			Add 1 new 765 bay(s) at Existing station.	IN			Conceptual	\$12,550,000			Y	B
B in MTEP10	East	ITC	1856	3744	12/31/2015	Jewell	Belle River - Greenwood Jct	1	345			Cut Pontiac-Greenwood-Belle River into Jewell creating Pontiac-Jewell and Jewell-Belle River-Greenwood	MI			Proposed	\$2,600,000			Y	B
B in MTEP10	East	ITC	1856	3743	12/31/2015	Jewell	Pontiac	1	345			Cut Pontiac-Greenwood-Belle River into Jewell creating Pontiac-Jewell and Jewell-Belle River-Greenwood	MI			Proposed	\$2,600,000			Y	B

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B in MTEP10	East	ITC	2932	5104	6/1/2015	St Antoine	Essex	1	120			Construct 2nd underground cable from St Antoine to Essex (5.1 miles).	MI		5.1	Proposed	\$54,800,000			Y	B
B in MTEP10	East	ITCT	3200	5745	1/1/2025	MI-D Station	new substation		345			Add 2 new 345 bay(s) at New station.	MI			Conceptual	\$11,800,000			Y	B
B in MTEP10	East	ITCT	3200	5752	1/1/2025	Murphy	new substation		345			Add 4 new 345 bay(s) at New station.	MI			Conceptual	\$23,600,000			Y	B
B in MTEP10	East	ITCT	3200	5746	1/1/2025	MI-E Station	new substation		345			Add 2 new 345 bay(s) at New station.	MI			Conceptual	\$11,800,000			Y	B
B in MTEP10	East	ITCT	3200	5744	1/1/2025	MI-C Station	new substation		345			Add 2 new 345 bay(s) at New station.	MI			Conceptual	\$11,800,000			Y	B
B in MTEP10	East	ITCT	3200	5740	1/1/2025	Keystone	new substation		345			Add 2 new 345 bay(s) at New station.	MI			Conceptual	\$11,800,000			Y	B
B in MTEP10	East	ITCT	3200	5730	1/1/2025	Greenwood	new substation		345			Add 2 new 345 bay(s) at New station.	MI			Conceptual	\$11,800,000			Y	B
B in MTEP10	East	ITCT	3200	5710	1/1/2025	19STOGA 345.00	19BFOOT 345.00	1	345		1756	Equipment upgrade to increase line rating	MI	45.6		Conceptual	\$82,080,000			Y	B
B in MTEP10	East	ITCT	3202	5920	1/1/2025	Murphy	new substation	1	345			Add 4 new 345 bay(s) at New station.	MI			Conceptual	\$23,600,000			Y	B
B in MTEP10	East	ITCT	3202	5910	1/1/2025	MI-C Station	new substation	1	345			Add 2 new 345 bay(s) at New station.	MI			Conceptual	\$11,800,000			Y	B
B in MTEP10	East	ITCT	3202	5911	1/1/2025	MI-D Station	new substation	1	345			Add 2 new 345 bay(s) at New station.	MI			Conceptual	\$11,800,000			Y	B
B in MTEP10	East	ITCT	3202	5912	1/1/2025	MI-E Station	new substation	1	345			Add 2 new 345 bay(s) at New station.	MI			Conceptual	\$11,800,000			Y	B
B in MTEP10	East	ITCT	3202	5903	1/1/2025	Keystone	new substation	1	345			Add 2 new 345 bay(s) at New station.	MI			Conceptual	\$11,800,000			Y	B
B in MTEP10	East	ITCT	3202	5850	1/1/2025	19STOGA 345.00	Blackfoot	1	345		1756	Equipment upgrade to increase line rating	MI	45.6		Conceptual	\$82,080,000			Y	B
B in MTEP10	East	ITCT	3202	5889	1/1/2025	Greenwood	new substation	1	345			Add 2 new 345 bay(s) at New station.	MI			Conceptual	\$11,800,000			Y	B
B in MTEP10	East	METC	3210	5953	6/1/2014	Vanderbilt	Riggsville		138			Rebuild 30.3 miles of 138 kV 266 ACSR to 954 ACSR FDC 230 kV construction.	MI	30.3		Proposed	\$33,254,000			Y	B
B in MTEP10	East	Non-MISO	3202	5834	1/1/2025	OH-B Station	OH-C Station	1	765		3975		OH		49.32	Conceptual	\$138,096,000			Y	B
B in MTEP10	East/Non	NIPS, CE	3202	5848	1/1/2025	Sheffield	BURNH; B 345.00	1	345		1314	Equipment upgrade to increase line rating	IL/IN	7.2		Conceptual	\$12,600,000			Y	B
B in MTEP10	East/Non	NIPS, CE	3202	5849	1/1/2025	St. John	Crete	1	345		1334	Equipment upgrade to increase line rating	IL/IN	14.4		Conceptual	\$25,200,000			Y	B
B in MTEP10	East/Non	Non-MISO	3202	5779	1/1/2025	South Canton	OH-C Station	1	765		3975		OH		99.48	Conceptual	\$278,544,000			Y	B
B in MTEP10	MISO	ATC LLC	3202	5887	1/1/2025	Granville	upgrade existing substation	1	345	138		Add 1 new 345 bay(s) at Existing station. Add 1 new 138 bay(s) at Existing station. Add 1 new 345/138 autotransformer(s).	IN			Conceptual	\$16,100,000			Y	B
B in MTEP10	MISO	DEM	3202	5893	1/1/2025	Gwynn	new substation	1	345			Add 2 new 345 bay(s) at New station.	IN			Conceptual	\$11,800,000			Y	B
B in MTEP10	MISO	DEM	3202	5926	1/1/2025	Noblesville	upgrade existing substation	1	345			Add 1 new 345 bay(s) at Existing station.	IN			Conceptual	\$5,900,000			Y	B
B in MTEP10	MISO	DEM	3202	5928	1/1/2025	Nucor	upgrade existing substation	1	345			Add 1 new 345 bay(s) at Existing station.	IN			Conceptual	\$5,900,000			Y	B
B in MTEP10	MISO	IPL	3202	5891	1/1/2025	Guion	upgrade existing substation	1	345	138		Add 1 new 345 bay(s) at Existing station. Add 1 new 138 bay(s) at Existing station. Add 1 new 345/138 autotransformer(s).	IN			Conceptual	\$16,100,000			Y	B
B in MTEP10	MISO	MEC	3202	5875	1/1/2025	Cordova (MEC)	new substation	1	345			Add 2 new 345 bay(s) at New station.	IL			Conceptual	\$11,800,000			Y	B
B in MTEP10	MISO	Non-MISO	3202	5874	1/1/2025	Collins	upgrade existing substation	1	345			Add 1 new 345 bay(s) at Existing station.	IL			Conceptual	\$5,900,000			Y	B
B in MTEP10	MISO	XEL	3202	5895	1/1/2025	Hazel	upgrade existing substation	1	345			Add 1 new 345 bay(s) at Existing station.	MN			Conceptual	\$5,900,000			Y	B
B in MTEP10	MISO	XEL	3202	5878	1/1/2025	Eden Prairie	upgrade existing substation	1	345	115		Add 1 new 345 bay(s) at Existing station. Add 1 new 115 bay(s) at Existing station. Add 1 new 345/115 autotransformer(s).	MN			Conceptual	\$16,100,000			Y	B
B in MTEP10	West	ALTW, DPC	3200	5694	1/1/2025	Mitchell Co	North La Crosse	1	765		3975		MN/WI		89.28	Conceptual	\$313,570,092			Y	B
B in MTEP10	West	ALTW, DPC	3202	5826	1/1/2025	Mitchell County	Genoa	2	345		1510	2nd circuit of double circuit	IA/MN/WI		82.8	Conceptual	\$202,464,000			Y	B
B in MTEP10	West	ALTW, MEC	3200	5693	1/1/2025	Mitchell Co	Hills	1	765		3975		IA/MN		178.9	Conceptual	\$574,060,800			Y	B
B in MTEP10	West	ALTW, MEC	3202	5812	1/1/2025	Hazleton	Hills	1	345		1510		IA		87.12	Conceptual	\$139,392,000			Y	B
B in MTEP10	West	ALTW, MEC	3202	5811	1/1/2025	Hazleton	Blackhawk	1	345		1510		IA		27.72	Conceptual	\$44,352,000			Y	B
B in MTEP10	West	ALTW, MEC	3202	5835	1/1/2025	Ottumwa	Montezuma	1	345		478		IA		42.96	Conceptual	\$68,736,000			Y	B
B in MTEP10	West	ALTW, XEL	3200	4034	1/1/2025	Mitchell Co	Hampton Corner	1	765		3975		MN		91.54	Conceptual	\$320,376,000			Y	B
B in MTEP10	West	ALTW, XEL	3202	5818	1/1/2025	Lakefield	Chanarambie	1	345		1510		MN		58.08	Conceptual	\$104,544,000			Y	B
B in MTEP10	West	ATC LLC	3200	5754	1/1/2025	North Madison	upgrade existing substation		765	345		Add 3 new 765 bay(s) at New station. Add 1 new 345 bay(s) at Existing station. Add 1 new 765/345 autotransformer(s).	WI			Conceptual	\$84,300,000			Y	B
B in MTEP10	West	ATC LLC	3200	5758	1/1/2025	Paddock	upgrade existing substation		345			Add 1 new 345 bay(s) at Existing station.	WI			Conceptual	\$5,900,000			Y	B
B in MTEP10	West	ATC LLC	3200	5762	1/1/2025	SEC	upgrade existing substation		345			Add 1 new 345 bay(s) at Existing station.	WI			Conceptual	\$5,900,000			Y	B
B in MTEP10	West	ATC LLC	3200	5764	1/1/2025	Tamarac Tap	new substation		345			Add 2 new 345 bay(s) at New station.	WI			Conceptual	\$11,800,000			Y	B
B in MTEP10	West	ATC LLC	3200	5767	1/1/2025	WI-D Station	new substation		345			Add 2 new 345 bay(s) at New station.	WI			Conceptual	\$11,800,000			Y	B

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B in MTEP10	West	ATC LLC	3200	5712	1/1/2025	Arcadian	Mill Rd	1	345		1076	Equipment upgrade to increase line rating	WI		36	Conceptual	\$75,600,000			Y	B
B in MTEP10	West	ATC LLC	3200	5675	1/1/2025	Elm Road	Tamarac Tap	1	345		1510		WI		30.43	Conceptual	\$63,908,208			Y	B
B in MTEP10	West	ATC LLC	3200	5725	1/1/2025	Elm Road	new substation		345			Add 2 new 345 bay(s) at New station.	WI			Conceptual	\$11,800,000			Y	B
B in MTEP10	West	ATC LLC	3200	5723	1/1/2025	Darlington	new substation		765	345		Add 3 new 765 bay(s) at New station. Add 2 new 345 bay(s) at New station. Add 1 new 765/345 autotransformer(s).	WI			Conceptual	\$90,200,000			Y	B
B in MTEP10	West	ATC LLC	3200	5703	1/1/2025	SEC	Tamarac Tap	1	345		1510		WI		54.3	Conceptual	\$114,035,040			Y	B
B in MTEP10	West	ATC LLC	3200	5714	1/1/2025	Edgewater	Cedar Sauk	1	345		966	Equipment upgrade to increase line rating	WI	56.4		Conceptual	\$118,440,000			Y	B
B in MTEP10	West	ATC LLC	3200	5713	1/1/2025	Cypress	Mill Rd	1	345		1076	Equipment upgrade to increase line rating	WI	61.2		Conceptual	\$128,520,000			Y	B
B in MTEP10	West	ATC LLC	3200	5672	1/1/2025	Darlington	North Madison	1	765		3975		WI		64.51	Conceptual	\$258,028,320			Y	B
B in MTEP10	West	ATC LLC	3200	5698	1/1/2025	Paddock	Darlington	1	345		1510		WI		62.1	Conceptual	\$130,419,828			Y	B
B in MTEP10	West	ATC LLC	3200	5747	1/1/2025	Mill Rd	upgrade existing substation		345	138		Add 1 new 345 bay(s) at Existing station. Add 1 new 138 bay(s) at Existing station. Add 1 new 345/138 autotransformer(s).	WI			Conceptual	\$16,100,000			Y	B
B in MTEP10	West	ATC LLC	3202	5799	1/1/2025	Cypress	Mill Road	1	345		1510		WI		63.36	Conceptual	\$133,056,000			Y	B
B in MTEP10	West	ATC LLC	3202	5798	1/1/2025	Cypress	Forest Jct	1	345		1510		WI		28.92	Conceptual	\$60,732,000			Y	B
B in MTEP10	West	ATC LLC	3202	5802	1/1/2025	Elm Road	Tetonka	1	345		1510		WI		30.48	Conceptual	\$64,008,000			Y	B
B in MTEP10	West	ATC LLC	3202	5788	1/1/2025	Arcadian	Mill Road	1	345		1076		WI		9.96	Conceptual	\$20,916,000			Y	B
B in MTEP10	West	ATC LLC	3202	5803	1/1/2025	Forest Jct	Sheboygan Falls	1	345		1510		WI		41.76	Conceptual	\$87,696,000			Y	B
B in MTEP10	West	ATC LLC	3202	5932	1/1/2025	Paddock	new substation	1	345			Add 2 new 345 bay(s) at New station.	WI			Conceptual	\$11,800,000			Y	B
B in MTEP10	West	ATC LLC	3202	5936	1/1/2025	Rocky Run	upgrade existing substation	1	345			Add 1 new 345 bay(s) at Existing station.	WI			Conceptual	\$5,900,000			Y	B
B in MTEP10	West	ATC LLC	3202	5938	1/1/2025	SEC	upgrade existing substation	1	345			Add 1 new 345 bay(s) at Existing station.	WI			Conceptual	\$5,900,000			Y	B
B in MTEP10	West	ATC LLC	3202	5940	1/1/2025	Sheboygan Falls	new substation	1	345			Add 3 new 345 bay(s) at New station.	WI			Conceptual	\$23,600,000			Y	B
B in MTEP10	West	ATC LLC	3202	5924	1/1/2025	Nelson Dewey	new substation	1	345	161		Add 6 new 345 bay(s) at New station. Add 2 new 161 bay(s) at New station. Add 2 new 345/161 autotransformer(s).	WI			Conceptual	\$55,800,000			Y	B
B in MTEP10	West	ATC LLC	3202	5942	1/1/2025	Spring Green	new substation	1	345	138		Add 3 new 345 bay(s) at New station. Add 1 new 138 bay(s) at Existing station. Add 1 new 345/138 autotransformer(s).	WI			Conceptual	\$33,800,000			Y	B
B in MTEP10	West	ATC LLC	3202	5944	1/1/2025	Tamarack Tap	new substation	1	345			Add 3 new 345 bay(s) at New station.	WI			Conceptual	\$23,600,000			Y	B
B in MTEP10	West	ATC LLC	3202	5948	1/1/2025	Cardinal	upgrade existing substation	1	345			Add 1 new 345 bay(s) at Existing station.	WI			Conceptual	\$5,900,000			Y	B
B in MTEP10	West	ATC LLC	3202	5939	1/1/2025	South Fon du Lac	new substation	1	345			Add 2 new 345 bay(s) at New station.	WI			Conceptual	\$11,800,000			Y	B
B in MTEP10	West	ATC LLC	3202	5927	1/1/2025	North Randolph	new substation	1	345			Add 2 new 345 bay(s) at New station.	WI			Conceptual	\$11,800,000			Y	B
B in MTEP10	West	ATC LLC	3202	5913	1/1/2025	Mill Road	upgrade existing substation	1	345	138		Add 2 new 345 bay(s) at Existing station. Add 1 new 138 bay(s) at Existing station. Add 1 new 345/138 autotransformer(s).	WI			Conceptual	\$16,100,000			Y	B
B in MTEP10	West	ATC LLC	3202	5877	1/1/2025	Darlington	new substation	1	345	138		Add 5 new 345 bay(s) at New station. Add 1 new 138 bay(s) at Existing station. Add 1 new 345/138 autotransformer(s).	WI			Conceptual	\$45,600,000			Y	B
B in MTEP10	West	ATC LLC	3202	5840	1/1/2025	SEC 345.00	Tamarack Tap	1	345		1510		WI		54.36	Conceptual	\$114,156,000			Y	B
B in MTEP10	West	ATC LLC	3202	5838	1/1/2025	Rocky Run	North Randolph	1	345		1510		WI		84.72	Conceptual	\$177,912,000			Y	B
B in MTEP10	West	ATC LLC	3202	5842	1/1/2025	South Fon du Lac	Sheboygan Falls	1	345		1510		WI		37.08	Conceptual	\$77,868,000			Y	B
B in MTEP10	West	ATC LLC	3202	5876	1/1/2025	Cypress	new substation	1	345			Add 2 new 345 bay(s) at New station.	WI			Conceptual	\$11,800,000			Y	B
B in MTEP10	West	ATC LLC	3202	5841	1/1/2025	South Fon du Lac	North Randolph	1	345		1510		WI		35.52	Conceptual	\$74,592,000			Y	B
B in MTEP10	West	ATC LLC	3202	5836	1/1/2025	Paddock	Darlington	2	345		1510	2nd circuit of double circuit	WI		62.16	Conceptual	\$167,832,000			Y	B
B in MTEP10	West	ATC LLC	3202	5865	1/1/2025	Arcadian	upgrade existing substation	1	345			Add 1 new 345 bay(s) at Existing station.	WI			Conceptual	\$5,900,000			Y	B
B in MTEP10	West	ATC LLC	3202	5866	1/1/2025	Arpin	upgrade existing substation	1	345	138		Add 1 new 345 bay(s) at Existing station. Add 1 new 138 bay(s) at Existing station. Add 1 new 345/138 autotransformer(s).	WI			Conceptual	\$16,100,000			Y	B
B in MTEP10	West	ATC LLC	3202	5844	1/1/2025	Tamarack Tap	Sheboygan Falls	1	345		1510		WI		54.36	Conceptual	\$114,156,000			Y	B
B in MTEP10	West	ATC LLC	3202	5855	1/1/2025	Edgewater	Cedar Sauk	1	345		966	Equipment upgrade to increase line rating	WI	56.4		Conceptual	\$118,440,000			Y	B
B in MTEP10	West	ATC LLC	3202	5830	1/1/2025	Nelson Dewey	Darlington	2	345		1510	2nd circuit of double circuit	WI		54.6	Conceptual	\$147,420,000			Y	B
B in MTEP10	West	ATC LLC	3202	5883	1/1/2025	Forest Jct	new substation	1	345			Add 2 new 345 bay(s) at New station.	WI			Conceptual	\$11,800,000			Y	B
B in MTEP10	West	ATC LLC	3202	5880	1/1/2025	Elm Road	new substation	1	345			Add 2 new 345 bay(s) at New station.	WI			Conceptual	\$11,800,000			Y	B

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Target Appendix	Region	Geographic Location by TO Member System	Proj ID	Facility ID	Expected ISD	From Sub	To Sub	Ckt	Max KV	Mid KV	Facility Rating	Facility Description	State	Miles Upg	Miles New	Plan Status	Estimated Cost	Cost Shared	Postage Stamp	MISO Facility	App ABC
B in MTEP10	West	CE, AmerenIL	3202	5817	1/1/2025	IL-F Station	IN-E Station	1	345		1510		IL/IN		55.8	Conceptual	\$86,340,000			Y	B
B in MTEP10	West	CE, MEC	3202	5858	1/1/2025	Quad Cities	Cordova (MEC)	1	345		1173	Equipment upgrade to increase line rating	IL	2.4		Conceptual	\$3,600,000			Y	B
B in MTEP10	West	DPC	3200	5753	1/1/2025	North La Crosse	upgrade existing substation		765	345		Add 3 new 765 bay(s) at New station. Add 1 new 345 bay(s) at Existing station. Add 1 new 765/345 autotransformer(s).	WI			Conceptual	\$84,300,000			Y	B
B in MTEP10	West	DPC	3202	5921	1/1/2025	North LaCrosse	new substation	1	345			Add 2 new 345 bay(s) at New station.	WI			Conceptual	\$11,800,000			Y	B
B in MTEP10	West	DPC	3202	5886	1/1/2025	Genoa	new substation	1	345			Add 4 new 345 bay(s) at New station.	WI			Conceptual	\$23,600,000			Y	B
B in MTEP10	West	DPC	3202	5831	1/1/2025	North LaCrosse	Genoa	1	345	1510			WI	22.08		Conceptual	\$46,368,000			Y	B
B in MTEP10	West	DPC, ATC LLC	3200	5696	1/1/2025	North La Crosse	North Madison	1	765		3975		WI		119.2	Conceptual	\$476,650,560			Y	B
B in MTEP10	West	DPC, ATC LLC	3202	5805	1/1/2025	Genoa	Nelson Dewey	1	345		1510		IA		70.8	Conceptual	\$113,280,000			Y	B
B in MTEP10	West	GRE	3200	5755	1/1/2025	ND-New Station	new substation		345			Add 3 new 345 bay(s) at New station.	ND			Conceptual	\$23,600,000			Y	B
B in MTEP10	West	GRE	3200	5743	1/1/2025	McHenry	upgrade existing substation		345	230		Add 3 new 345 bay(s) at New station. Add 1 new 230 bay(s) at Existing station. Add 1 new 345/230 autotransformer(s).	ND			Conceptual	\$34,600,000			Y	B
B in MTEP10	West	GRE	3200	5692	1/1/2025	McHenry	ND-New Station	1	345		1510		ND		145.6	Conceptual	\$203,903,280			Y	B
B in MTEP10	West	GRE	3202	5794	1/1/2025	Center	McHenry	1	345		1510		ND		80.28	Conceptual	\$112,392,000			Y	B
B in MTEP10	West	GRE	3202	5934	1/1/2025	Prairie	new substation	1	345	230		Add 5 new 345 bay(s) at New station. Add 2 new 230 bay(s) at New station. Add 2 new 345/230 autotransformer(s).	ND			Conceptual	\$57,400,000			Y	B
B in MTEP10	West	GRE	3202	5907	1/1/2025	McHenry	new substation	1	345	230		Add 4 new 345 bay(s) at New station. Add 2 new 230 bay(s) at New station. Add 2 new 345/230 autotransformer(s).	ND			Conceptual	\$45,600,000			Y	B
B in MTEP10	West	GRE	3202	5923	1/1/2025	ND New Station	new substation	1	345			Add 3 new 345 bay(s) at New station.	ND			Conceptual	\$23,600,000			Y	B
B in MTEP10	West	GRE	3202	5837	1/1/2025	Prairie	ND New Station	2	345		1510	2nd circuit of double circuit	ND		66.48	Conceptual	\$126,312,000			Y	B
B in MTEP10	West	GRE	3202	5872	1/1/2025	Center	new substation	1	345			Add 3 new 345 bay(s) at New station.	ND			Conceptual	\$23,600,000			Y	B
B in MTEP10	West	GRE	3202	5824	1/1/2025	McHenry	ND New Station	1	345		1510		ND		145.7	Conceptual	\$203,952,000			Y	B
B in MTEP10	West	ITCM	3200	5739	1/1/2025	IA-H Station	new substation		345			Add 2 new 345 bay(s) at New station.	IA			Conceptual	\$11,800,000			Y	B
B in MTEP10	West	ITCM	3200	5686	1/1/2025	Lakefield Junction	IA-B Station	1	345		1510		IA/MN		61.09	Conceptual	\$101,138,208			Y	B
B in MTEP10	West	ITCM	3200	5683	1/1/2025	IA-G Station	IA-H Station	1	345		1510		IA		35.74	Conceptual	\$57,180,288			Y	B
B in MTEP10	West	ITCM	3200	5738	1/1/2025	IA-G Station	new substation		765	345		Add 3 new 765 bay(s) at New station. Add 4 new 345 bay(s) at New station. Add 1 new 765/345 autotransformer(s).	IA			Conceptual	\$102,000,000			Y	B
B in MTEP10	West	ITCM	3200	5737	1/1/2025	IA-F Station	new substation		345			Add 2 new 345 bay(s) at New station.	IA			Conceptual	\$11,800,000			Y	B
B in MTEP10	West	ITCM	3200	5736	1/1/2025	IA-B Station	new substation		345			Add 2 new 345 bay(s) at New station.	IA			Conceptual	\$11,800,000			Y	B
B in MTEP10	West	ITCM	3200	5733	1/1/2025	Guthrie Center	new substation		345			Add 3 new 345 bay(s) at New station.	IA			Conceptual	\$23,600,000			Y	B
B in MTEP10	West	ITCM	3200	5681	1/1/2025	IA-B Station	IA-F Station	1	345		1510		IA		26.88	Conceptual	\$43,014,336			Y	B
B in MTEP10	West	ITCM	3200	5682	1/1/2025	IA-F Station	IA-G Station	1	345		1510		IA		38.92	Conceptual	\$62,278,656			Y	B
B in MTEP10	West	ITCM	3200	5741	1/1/2025	Lakefield	new substation		765	345		Add 4 new 765 bay(s) at New station. Add 1 new 345 bay(s) at New station. Add 1 new 765/345 autotransformer(s).	MN			Conceptual	\$84,200,000			Y	B
B in MTEP10	West	ITCM	3200	5679	1/1/2025	Guthrie Center	IA-H Station	1	345		1510		IA		41.24	Conceptual	\$65,985,600			Y	B
B in MTEP10	West	ITCM	3200	5748	1/1/2025	Mitchell Co	new substation		765	345		Add 5 new 765 bay(s) at New station. Add 1 new 765/345 autotransformer(s).	MN			Conceptual	\$103,400,000			Y	B
B in MTEP10	West	ITCM	3202	5898	1/1/2025	IA-B Station	new substation	1	345			Add 2 new 345 bay(s) at New station.	IA			Conceptual	\$11,800,000			Y	B
B in MTEP10	West	ITCM	3202	5896	1/1/2025	Hazleton	new substation	1	345			Add 3 new 345 bay(s) at New station.	IA			Conceptual	\$23,600,000			Y	B
B in MTEP10	West	ITCM	3202	5809	1/1/2025	Guthrie Center	IA-H Station	2	345		1510	2nd circuit of double circuit	IA		41.28	Conceptual	\$94,944,000			Y	B
B in MTEP10	West	ITCM	3202	5816	1/1/2025	IA-G Station	IA-H Station	1	345		1510		IA		35.76	Conceptual	\$57,216,000			Y	B
B in MTEP10	West	ITCM	3202	5815	1/1/2025	IA-F Station	IA-G Station	1	345		1510		IA		38.88	Conceptual	\$62,208,000			Y	B
B in MTEP10	West	ITCM	3202	5814	1/1/2025	IA-B Station	IA-F Station	1	345		1510		IA		26.88	Conceptual	\$43,008,000			Y	B
B in MTEP10	West	ITCM	3202	5813	1/1/2025	Hazleton	Mitchell County	1	345		956		IA		85.32	Conceptual	\$136,512,000			Y	B
B in MTEP10	West	ITCM	3202	5899	1/1/2025	IA-F Station	new substation	1	345			Add 2 new 345 bay(s) at New station.	IA			Conceptual	\$11,800,000			Y	B
B in MTEP10	West	ITCM	3202	5930	1/1/2025	Ottumwa	new substation	1	345			Add 1 new 345 bay(s) at New station.	IA			Conceptual	\$5,900,000			Y	B
B in MTEP10	West	ITCM	3202	5900	1/1/2025	IA-G Station	new substation	1	345			Add 4 new 345 bay(s) at New station.	IA			Conceptual	\$23,600,000			Y	B
B in MTEP10	West	ITCM	3202	5901	1/1/2025	IA-H Station	new substation	1	345			Add 3 new 345 bay(s) at New station.	IA			Conceptual	\$23,600,000			Y	B
B in MTEP10	West	ITCM	3202	5914	1/1/2025	Mitchell County	new substation	1	345			Add 5 new 345 bay(s) at New station.	IA			Conceptual	\$29,400,000			Y	B
B in MTEP10	West	ITCM	3202	5819	1/1/2025	Lakefield	IA-B Station	1	345		1510		IA/MN		61.08	Conceptual	\$101,136,000			Y	B
B in MTEP10	West	ITCM	3202	5892	1/1/2025	Guthrie Center	new substation	1	345			Add 4 new 345 bay(s) at New station.	IA			Conceptual	\$23,600,000			Y	B

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Target Appendix	Region	Geographic Location by TO Member System	ProjID	Facility ID	Expected (SD)	From Sub	To Sub	Ckt	Max KV	Min KV	Facility Rating	Facility Description	State	Miles Upg	Miles New	Plan Status	Estimated Cost \$	Cost Shared	Postage Stamp	MISO Facility	App ABC
B in MTEP10	West	MDU	3200	5724	1/1/2025	Ellendale	upgrade existing substation		345	230		Add 5 new 345 bay(s) at New station. Add 1 new 230 bay(s) at Existing station. Add 1 new 345/230 autotransformer(s).	ND			Conceptual	\$46,400,000			Y	B
B in MTEP10	West	MDU	3200	5751	1/1/2025	MT_Zone	upgrade existing substation		345	230		Add 3 new 345 bay(s) at New station. Add 2 new 230 bay(s) at Existing station. Add 2 new 345/230 autotransformer(s).	MT			Conceptual	\$41,100,000			Y	B
B in MTEP10	West	MDU	3200	5674	1/1/2025	Ellendale	Tetonka	2	345	1510		2nd circuit of double circuit	ND		25.27	Conceptual	\$48,022,044			Y	B
B in MTEP10	West	MDU	3202	5796	1/1/2025	Center	Tetonka	1	345	1510			ND		150.5	Conceptual	\$210,672,000			Y	B
B in MTEP10	West	MDU	3202	5801	1/1/2025	Ellendale	Tetonka	1	345	1510			ND		25.32	Conceptual	\$35,448,000			Y	B
B in MTEP10	West	MDU	3202	5946	1/1/2025	Tetonka	new substation	1	345	230		Add 7 new 345 bay(s) at New station. Add 2 new 230 bay(s) at Existing station. Add 2 new 345/230 autotransformer(s).	ND			Conceptual	\$64,700,000			Y	B
B in MTEP10	West	MDU	3202	5919	1/1/2025	MT_Zone	new substation	1	345	230		Add 3 new 345 bay(s) at New station. Add 2 new 230 bay(s) at New station. Add 2 new 345/230 autotransformer(s).	MT			Conceptual	\$45,600,000			Y	B
B in MTEP10	West	MDU	3202	5885	1/1/2025	Fort Thompson	new substation	1	345	230		Add 2 new 345 bay(s) at New station. Add 1 new 230 bay(s) at Existing station. Add 1 new 345/230 autotransformer(s).	SD			Conceptual	\$22,800,000			Y	B
B in MTEP10	West	MDU	3202	5879	1/1/2025	Ellendale	new substation	1	345	230		Add 3 new 345 bay(s) at New station. Add 1 new 230 bay(s) at Existing station. Add 1 new 345/230 autotransformer(s).	ND			Conceptual	\$34,600,000			Y	B
B in MTEP10	West	MDU_OTP	3200	5673	1/1/2025	Ellendale	Oakes	2	345	1510		2nd circuit of double circuit	ND		27.64	Conceptual	\$52,519,116			Y	B
B in MTEP10	West	MDU_OTP	3202	5800	1/1/2025	Ellendale	Oakes	1	345	1510			ND		27.6	Conceptual	\$38,640,000			Y	B
B in MTEP10	West	MEC	3200	5678	1/1/2025	Grimes	Hills	1	765	3975			IA		141.3	Conceptual	\$452,044,800			Y	B
B in MTEP10	West	MEC	3200	5735	1/1/2025	Hills	upgrade existing substation		765	345		Add 4 new 765 bay(s) at New station. Add 1 new 345 bay(s) at Existing station. Add 1 new 765/345 autotransformer(s).	IA			Conceptual	\$84,300,000			Y	B
B in MTEP10	West	MEC	3200	5731	1/1/2025	Grimes	new substation		765	345		Add 4 new 765 bay(s) at New station. Add 3 new 345 bay(s) at New station. Add 1 new 765/345 autotransformer(s).	IA			Conceptual	\$102,000,000			Y	B
B in MTEP10	West	MEC	3200	5684	1/1/2025	IA-G Station	Grimes	1	765	3975			IA		105.3	Conceptual	\$336,932,352			Y	B
B in MTEP10	West	MEC	3202	5808	1/1/2025	Grimes	Montezuma	2	345	1510		2nd circuit of double circuit	IA		77.52	Conceptual	\$178,296,000			Y	B
B in MTEP10	West	MEC	3202	5807	1/1/2025	Grimes	Lehigh	1	345	1510			IA		61.92	Conceptual	\$99,072,000			Y	B
B in MTEP10	West	MEC	3202	5897	1/1/2025	Hills	new substation	1	345			Add 4 new 345 bay(s) at New station.	IA			Conceptual	\$23,600,000			Y	B
B in MTEP10	West	MEC	3202	5905	1/1/2025	Lehigh	new substation	1	345			Add 2 new 345 bay(s) at New station.	IA			Conceptual	\$11,800,000			Y	B
B in MTEP10	West	MEC	3202	5917	1/1/2025	Montezuma	new substation	1	345			Add 6 new 345 bay(s) at New station.	IA			Conceptual	\$35,400,000			Y	B
B in MTEP10	West	MEC	3202	5869	1/1/2025	Bondurant	upgrade existing substation	1	345			Add 1 new 345 bay(s) at Existing station.	IA			Conceptual	\$5,900,000			Y	B
B in MTEP10	West	MEC	3202	5868	1/1/2025	Blackhawk	new substation	1	345	161		Add 4 new 345 bay(s) at New station. Add 2 new 161 bay(s) at New station. Add 2 new 345/161 autotransformer(s).	IA			Conceptual	\$44,000,000			Y	B
B in MTEP10	West	MEC	3202	5853	1/1/2025	Bondurant	Montezuma	1	345	1510		Equipment upgrade to increase line rating	IA	58.08		Conceptual	\$92,928,000			Y	B
B in MTEP10	West	MEC	3202	5856	1/1/2025	Montezuma	Hills	1	345	1510		Equipment upgrade to increase line rating	IA	63.84		Conceptual	\$102,144,000			Y	B
B in MTEP10	West	MEC	3202	5854	1/1/2025	Bondurant	Sycamore	1	345	1510		Equipment upgrade to increase line rating	IA		12	Conceptual	\$19,200,000			Y	B
B in MTEP10	West	MEC	3202	5845	1/1/2025	Webster	Blackhawk	1	345	1510			IA		106.1	Conceptual	\$169,728,000			Y	B
B in MTEP10	West	MEC	3202	5829	1/1/2025	Montezuma	Hills	2	345	1510			IA		63.84	Conceptual	\$102,144,000			Y	B
B in MTEP10	West	MEC	3202	5890	1/1/2025	Grimes	new substation	1	345			Add 5 new 345 bay(s) at New station.	IA			Conceptual	\$35,400,000			Y	B
B in MTEP10	West	MEC, ALTW	3200	5677	1/1/2025	Grimes	Guthrie Center	2	345	1510		2nd circuit of double circuit	IA		42.02	Conceptual	\$96,656,580			Y	B
B in MTEP10	West	MEC, ALTW	3200	5704	1/1/2025	Webster	IA-G Station	1	345	1510			IA		72.99	Conceptual	\$116,776,704			Y	B
B in MTEP10	West	MEC, ALTW	3202	5806	1/1/2025	Grimes	Guthrie Center	2	345	1510		2nd circuit of double circuit	IA		42	Conceptual	\$96,600,000			Y	B
B in MTEP10	West	MEC, ALTW	3202	5846	1/1/2025	Webster	IA-G Station	1	345	1510			IA		72.96	Conceptual	\$116,736,000			Y	B
B in MTEP10	West	MEC, ALTW	3202	5820	1/1/2025	Lehigh	IA-G Station	1	345	1510			IA		69.36	Conceptual	\$110,976,000			Y	B
B in MTEP10	West	MPW	2935	5108	6/1/2017	Wiggins	Power Plant	1	69	89		Reconductor Line from 336.4 to 636 ACSR	IA	4.2		Proposed	\$252,000			Y	B
B in MTEP10	West	MPW	2935	5107	6/1/2017	South	Wiggins	1	69	89		Reconductor Line from 336.4 to 636 ACSR	IA	0.8		Proposed	\$48,000			Y	B
B in MTEP10	West	OTP	3200	5756	1/1/2025	Oakes	upgrade existing substation		345	230		Add 3 new 345 bay(s) at New station. Add 1 new 230 bay(s) at Existing station. Add 1 new 345/230 autotransformer(s).	ND			Conceptual	\$34,600,000			Y	B
B in MTEP10	West	OTP	3200	5759	1/1/2025	Prairie	new substation		345			Add 4 new 345 bay(s) at New station.	ND			Conceptual	\$23,600,000			Y	B

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B in MTEP10	West	OTP	3200	5734	1/1/2025	Hankinson	upgrade existing substation		345	230		Add 6 new 345 bay(s) at New station. Add 2 new 230 bay(s) at Existing station. Add 2 new 345/230 autotransformer(s).	ND			Conceptual	\$52,900,000			Y	B
B in MTEP10	West	OTP	3200	5742	1/1/2025	Maple River	new substation		345			Add 3 new 345 bay(s) at New station.	ND			Conceptual	\$23,600,000			Y	B
B in MTEP10	West	OTP	3200	5721	1/1/2025	Center	new substation		345			Add 3 new 345 bay(s) at New station.	ND			Conceptual	\$23,600,000			Y	B
B in MTEP10	West	OTP	3200	5727	1/1/2025	Forman	upgrade existing substation		345	230		Add 3 new 345 bay(s) at New station. Add 1 new 230 bay(s) at Existing station. Add 1 new 345/230 autotransformer(s).	ND			Conceptual	\$34,600,000			Y	B
B in MTEP10	West	OTP	3200	5680	1/1/2025	Hankinson	Forman	2	345	1510		2nd circuit of double circuit	ND		42.93	Conceptual	\$81,574,068			Y	B
B in MTEP10	West	OTP	3200	5690	1/1/2025	Maple River	Hankinson	1	345	1510			ND		66.36	Conceptual	\$92,908,368			Y	B
B in MTEP10	West	OTP	3200	5691	1/1/2025	Maple River	Prairie	2	345	1510		2nd circuit of double circuit	ND		83.08	Conceptual	\$157,852,380			Y	B
B in MTEP10	West	OTP	3200	5697	1/1/2025	Oakes	Forman	2	345	1510		2nd circuit of double circuit	ND		26.57	Conceptual	\$50,473,728			Y	B
B in MTEP10	West	OTP	3202	5810	1/1/2025	Hankinson	Forman	1	345	1510			ND		42.96	Conceptual	\$60,144,000			Y	B
B in MTEP10	West	OTP	3202	5906	1/1/2025	Maple River	new substation	1	345			Add 3 new 345 bay(s) at New station.	ND			Conceptual	\$23,600,000			Y	B
B in MTEP10	West	OTP	3202	5929	1/1/2025	Oakes	new substation	1	345	230		Add 3 new 345 bay(s) at New station. Add 1 new 230 bay(s) at Existing station. Add 1 new 345/230 autotransformer(s).	ND			Conceptual	\$34,600,000			Y	B
B in MTEP10	West	OTP	3202	5857	1/1/2025	Prairie	Winger	1	230	389		Equipment upgrade to increase line rating	ND		69.6	Conceptual	\$52,200,000			Y	B
B in MTEP10	West	OTP	3202	5867	1/1/2025	Big Stone	new substation	1	345			Add 1 new 345 bay(s) at New station.	SD			Conceptual	\$5,900,000			Y	B
B in MTEP10	West	OTP	3202	5833	1/1/2025	Oaks	Forman	1	345	1510			ND		26.52	Conceptual	\$37,128,000			Y	B
B in MTEP10	West	OTP	3202	5884	1/1/2025	Forman	new substation	1	345	230		Add 3 new 345 bay(s) at New station. Add 1 new 230 bay(s) at Existing station. Add 1 new 345/230 autotransformer(s).	ND			Conceptual	\$34,600,000			Y	B
B in MTEP10	West	OTP	3202	5894	1/1/2025	Hankinson	new substation	1	345	230		Add 5 new 345 bay(s) at New station. Add 2 new 230 bay(s) at New station. Add 2 new 345/230 autotransformer(s).	ND			Conceptual	\$57,400,000			Y	B
B in MTEP10	West	OTP	3202	5823	1/1/2025	Maple River	Prairie	2	345	1510		2nd circuit of double circuit	ND		83.04	Conceptual	\$157,776,000			Y	B
B in MTEP10	West	OTP	3202	5822	1/1/2025	Maple River	Hankinson	1	345	1510			ND		66.36	Conceptual	\$92,904,000			Y	B
B in MTEP10	West	OTP_GRE	3200	5669	1/1/2025	Center	McHenry	1	345	1510			ND		80.33	Conceptual	\$112,484,576			Y	B
B in MTEP10	West	OTP_GRE	3200	5699	1/1/2025	Prairie	ND-New Station	2	345	1510		2nd circuit of double circuit	ND		66.48	Conceptual	\$126,319,980			Y	B
B in MTEP10	West	OTP_MDU	3200	5765	1/1/2025	Tetonka	new substation		345	230		Add 7 new 345 bay(s) at New station. Add 2 new 230 bay(s) at New station. Add 2 new 345/230 autotransformer(s).	ND			Conceptual	\$69,200,000			Y	B
B in MTEP10	West	OTP_MDU	3200	5671	1/1/2025	Center	Tetonka	1	345	1510			ND		150.5	Conceptual	\$210,690,480			Y	B
B in MTEP10	West	OTP_WAPA	3202	5792	1/1/2025	Big Stone	Granite Falls	1	345	1510			MN/SD		69.12	Conceptual	\$122,688,000			Y	B
B in MTEP10	West	WAPA	3202	5795	1/1/2025	Center	MT_Zone	1	345	1510			MT/ND		201.6	Conceptual	\$282,240,000			Y	B
B in MTEP10	West	WAPA	3202	5791	1/1/2025	Brookings County	White	1	115	160			SD		0.6	Conceptual	\$300,000			Y	B
B in MTEP10	West	WAPA_MDU	3202	5804	1/1/2025	Fort Thompson	Tetonka	1	345	1510			ND/SD		163.2	Conceptual	\$228,480,000			Y	B
B in MTEP10	West	XEL	3121	5470	6/1/2016	Kenrick	Ritter Park	1	115			Upgrade to 2-795 ACSR	MN			Planned				Y	B
B in MTEP10	West	XEL	3121	5471	6/1/2016	Ritter Park	Dakota Heights	1	115			Upgrade to 2-795 ACSR	MN			Planned				Y	B
B in MTEP10	West	XEL	3121	5469	6/1/2016	Lake Marion	Kenrick	1	115			Upgrade to 2-795 ACSR	MN			Planned	\$6,200,000			Y	B
B in MTEP10	West	XEL	3121	5472	6/1/2016	Dakota Heights	Burnsville	1	115			Upgrade to 2-795 ACSR	MN			Planned				Y	B
B in MTEP10	West	XEL	3200	5766	1/1/2025	White	upgrade existing substation		345	115		Add 1 new 345 bay(s) at Existing station. Add 1 new 115 bay(s) at Existing station. Add 1 new 345/115 autotransformer(s).	SD			Conceptual	\$16,100,000			Y	B
B in MTEP10	West	XEL	3200	5761	1/1/2025	SD-H Station	new substation		345			Add 3 new 345 bay(s) at New station.	SD			Conceptual	\$23,600,000			Y	B
B in MTEP10	West	XEL	3200	5666	1/1/2025	Brookings County	Hampton Corner	1	765	3975			MN/SD		210.7	Conceptual	\$734,385,859			Y	B
B in MTEP10	West	XEL	3200	5665	1/1/2025	Brookings County	New 765 Sub 2	1	765	3975			MN/SD		20.19	Conceptual	\$66,696,773			Y	B
B in MTEP10	West	XEL	3200	5664	1/1/2025	New 765 Sub 1	New 765 Sub 2	1	765	3975			MN		25.83	Conceptual	\$90,391,560			Y	B
B in MTEP10	West	XEL	3200	5667	1/1/2025	Brookings County	SD-H station	1	345	1510			SD		58.02	Conceptual	\$81,231,696			Y	B
B in MTEP10	West	XEL	3200	4059	1/1/2025	Hampton Corner	upgrade existing substation		765	345		Add 3 new 765 bay(s) at New station. Add 1 new 345 bay(s) at Existing station. Add 1 new 765/345 autotransformer(s).	MN			Conceptual	\$84,300,000			Y	B
B in MTEP10	West	XEL	3200	5722	1/1/2025	New 765 Sub 2	new substation		765	115		Add 4 new 765 bay(s) at New station. Add 2 new 115 bay(s) at New station. Add 2 new 765/115 autotransformer(s).	MN			Conceptual	\$100,600,000			Y	B

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Target Appendix	Region	Geographic Location by TO Member System	Facility ID	Facility ID	Expected USD	From Sub	To Sub	Max kV	Min kV	Facility Rating	Facility Description	State	Miles Upg	Miles New	Plant Status	Estimated Cost	Cost Shared	Postage Stamp	MISO Facility	App ABC
B in MTEP10	West	XEL	3200	5720	1/1/2025	New 765 Sub 1	new substation	765	115		Add 4 new 765 bay(s) at New station. Add 2 new 115 bay(s) at New station. Add 2 new 765/115 autotransformer(s).	MN			Conceptual	\$100,600,000			Y	B
B in MTEP10	West	XEL	3200	5719	1/1/2025	Brookings County	new substation	765	345		Add 4 new 765 bay(s) at New station. Add 2 new 345 bay(s) at New station. Add 2 new 765/345 autotransformer(s).	SD			Conceptual	\$118,200,000			Y	B
B in MTEP10	West	XEL	3200	5717	1/1/2025	Alexandria	upgrade existing substation	345			Add 1 new 345 bay(s) at Existing station.	MN			Conceptual	\$5,900,000			Y	B
B in MTEP10	West	XEL	3200	5695	1/1/2025	MN-K Station	IA-J Station	1	345	1510		IA/MN	48.19		Conceptual	\$78,101,486			Y	B
B in MTEP10	West	XEL	3200	5688	1/1/2025	Lakefield Junction	New 765 Sub 1	1	765	3975		MN	58.08		Conceptual	\$203,279,160			Y	B
B in MTEP10	West	XEL	3200	5749	1/1/2025	MN-K Station	new substation	765	345		Add 3 new 765 bay(s) at New station. Add 1 new 765/345 autotransformer(s).	MN			Conceptual	\$78,200,000			Y	B
B in MTEP10	West	XEL	3200	5701	1/1/2025	SD-H Station	SD-J Station	1	345	1510		SD	53.48		Conceptual	\$74,871,216			Y	B
B in MTEP10	West	XEL	3202	5793	1/1/2025	Buffalo Ridge	Chanarambie	1	345	1510		MN	25.8		Conceptual	\$46,440,000			Y	B
B in MTEP10	West	XEL	3202	5789	1/1/2025	Brookings County	Buffalo Ridge	1	345	1510		MN/SD	20.16		Conceptual	\$34,032,000			Y	B
B in MTEP10	West	XEL	3202	5864	1/1/2025	Alexandria	new substation	1	345		Add 2 new 345 bay(s) at New station.	MN			Conceptual	\$11,800,000			Y	B
B in MTEP10	West	XEL	3202	5941	1/1/2025	Sioux City	new substation	1	345	230	Add 2 new 345 bay(s) at New station. Add 1 new 230 bay(s) at Existing station. Add 1 new 345/230 autotransformer(s).	IA			Conceptual	\$22,800,000			Y	B
B in MTEP10	West	XEL	3202	5937	1/1/2025	SD-H Station	new substation	1	345		Add 3 new 345 bay(s) at New station.	SD			Conceptual	\$23,600,000			Y	B
B in MTEP10	West	XEL	3202	5943	1/1/2025	Split Rock	upgrade existing substation	1	345		Add 1 new 345 bay(s) at Existing station.	SD			Conceptual	\$5,900,000			Y	B
B in MTEP10	West	XEL	3202	5947	1/1/2025	Watertown	upgrade existing substation	1	345	230	Add 1 new 345 bay(s) at Existing station. Add 1 new 230 bay(s) at Existing station. Add 1 new 345/230 autotransformer(s).	SD			Conceptual	\$16,900,000			Y	B
B in MTEP10	West	XEL	3202	5915	1/1/2025	MN-K Station	new substation	1	345		Add 2 new 345 bay(s) at New station.	MN			Conceptual	\$11,800,000			Y	B
B in MTEP10	West	XEL	3202	5904	1/1/2025	Lakefield	new substation	1	345	161	Add 3 new 345 bay(s) at New station. Add 1 new 345 bay(s) at Existing station. Add 1 new 345/161 autotransformer(s).	MN			Conceptual	\$23,500,000			Y	B
B in MTEP10	West	XEL	3202	5918	1/1/2025	Monticello	upgrade existing substation	1	345		Add 1 new 345 bay(s) at Existing station.	MN			Conceptual	\$5,900,000			Y	B
B in MTEP10	West	XEL	3202	5922	1/1/2025	North Rochester	upgrade existing substation	1	345		Add 1 new 345 bay(s) at Existing station.	MN			Conceptual	\$5,900,000			Y	B
B in MTEP10	West	XEL	3202	5870	1/1/2025	Brookings County	new substation	1	345		Add 4 new 345 bay(s) at New station.	SD			Conceptual	\$23,600,000			Y	B
B in MTEP10	West	XEL	3202	5790	1/1/2025	Brookings County	SD-H Station	1	345	1510		SD	58.08		Conceptual	\$81,312,000			Y	B
B in MTEP10	West	XEL	3202	5871	1/1/2025	Buffalo Ridge	new substation	1	345	115	Add 2 new 345 bay(s) at New station. Add 2 new 115 bay(s) at New station. Add 2 new 345/115 autotransformer(s).	MN			Conceptual	\$32,200,000			Y	B
B in MTEP10	West	XEL	3202	5873	1/1/2025	Chanarambie	new substation	1	345	115	Add 2 new 345 bay(s) at New station. Add 2 new 115 bay(s) at New station. Add 2 new 345/115 autotransformer(s).	MN			Conceptual	\$32,200,000			Y	B
B in MTEP10	West	XEL	3202	5863	1/1/2025	Adams	upgrade existing substation	1	345		Add 1 new 345 bay(s) at Existing station.	MN			Conceptual	\$5,900,000			Y	B
B in MTEP10	West	XEL	3202	5828	1/1/2025	Monticello	Alexandria	1	345	1510		MN	97.8		Conceptual	\$176,040,000			Y	B
B in MTEP10	West	XEL	3202	5825	1/1/2025	Minnesota Valley	Hazel	1	230	338		MN	7.44		Conceptual	\$5,580,000			Y	B
B in MTEP10	West	XEL, ALTW	3202	5786	1/1/2025	Adams	Mitchell County	1	345	956		IA/MN	8.04		Conceptual	\$14,016,000			Y	B
B in MTEP10	West	XEL, DPC	3202	5832	1/1/2025	North Rochester	North LaCrosse	1	345	1510		MN/WI	69.84		Conceptual	\$126,432,000			Y	B
B in MTEP10	West	XEL, MDU	3200	5702	1/1/2025	SD-H Station	Tetonka	1	345	1510		ND/SD	152		Conceptual	\$212,788,464			Y	B
B in MTEP10	West	XEL, MDU	3202	5839	1/1/2025	SD-H Station	Tetonka	2	345	1510	2nd circuit of double circuit	ND/SD	151.9		Conceptual	\$288,648,000			Y	B
B in MTEP10	West	XEL, MEC	3200	5689	1/1/2025	Lakefield Junction	IA-G Station	1	765	3975		IA/MN	109.8		Conceptual	\$355,430,412			Y	B
B in MTEP10	West	XEL, MEC	3202	5827	1/1/2025	MN-K Station	IA-J Station	1	345	1510		IA/MN	48.24		Conceptual	\$78,192,000			Y	B
B in MTEP10	West	XEL, OTP	3200	5663	1/1/2025	Alexandria	Hankinson	1	345	1510		MN/ND	90.59		Conceptual	\$155,254,104			Y	B
B in MTEP10	West	XEL, OTP	3202	5787	1/1/2025	Alexandria	Hankinson	1	345	1510		MN/ND	90.6		Conceptual	\$155,256,000			Y	B
B in MTEP10	West	XEL, WAPA	3202	5843	1/1/2025	Split Rock	Sioux City	1	345	717		IA/SD	85.2		Conceptual	\$129,288,000			Y	B
B in MTEP10	West	XEL, WAPA	3202	5859	1/1/2025	Split Rock	White	1	345	1308	Equipment upgrade to increase line rating	SD	70.8		Conceptual	\$99,120,000			Y	B
B in MTEP10	West/Cen	AmerenIL, MEC	3202	5785	1/1/2025	Fargo	Oak Grove	1	345	1510		IL	73.92		Conceptual	\$110,880,000			Y	B
B in MTEP10	West/Cen	MIPU, MEC	3200	5661	1/1/2025	Fairport	Grimes	1	765	3975		IA/MO	140.9		Conceptual	\$450,955,776			Y	B
B in MTEP10	West/No	CE, ATC LLC	3200	5668	1/1/2025	Byron	Darlington	1	765	3975		IL/WI	70.68		Conceptual	\$221,095,152			Y	B

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Target Appendix	Region	Geographic Location by TO Member System	Pri ID	Facility ID	Expected ISD	From Sub	To Sub	Qty	Max kV	Min kV	Facility Rating	Facility Description	State	Miles Upg	Miles New	Plan Status	Estimated Cost	Cost Shared	Postage Stamp	MISO Facility	App ABC
B in MTEP10	West/Not	CE, ATC LLC	3200	5687	1/1/2025	Liberty	Elm Road	1	345		1510		IL/WI		44.7	Conceptual	\$84,763,368			Y	B
B in MTEP10	West/Not	CE, ATC LLC	3202	5821	1/1/2025	Liberty	Elm Road	1	345		1510		IL/WI		44.64	Conceptual	\$84,672,000			Y	B
B in MTEP10	West/Not	CE, MEC	3200	5700	1/1/2025	Quad Cities	Hills	1	765		3975		IA/IL		77.26	Conceptual	\$246,977,135			Y	B
B in MTEP10	West/Not	CE, MEC	3202	5797	1/1/2025	Cordova	Hills	1	345		1510		IA/IL		78.84	Conceptual	\$125,928,000			Y	B
B in MTEP10	West/Not	OTP, WAPA	3200	5670	1/1/2025	Center	Mt. Zion	1	345		1510		MT/ND		201.5	Conceptual	\$282,119,208			Y	B
B in MTEP10	West/Not	WAPA, MDU	3200	5676	1/1/2025	Fort Thompson	Tetonka	1	345		1510		ND/SD		163.1	Conceptual	\$228,379,553			Y	B
B in MTEP10	West/Not	XEL, WAPA	3200	5715	1/1/2025	Split Rock	White	1	345		1308	Equipment upgrade to increase line rating	SD	70.8		Conceptual	\$99,120,000			Y	B
B in MTEP11	Central	AmerenIL	2967	5166	6/1/2013	Grand Tower Plant	2-Stage, 80 Mvar Capacitor Bank	1	138		80	Grand Tower Plant - Install 2-stage 80 Mvar (2 x 40 Mvar) 138 kV capacitor bank. 2-138 kV PCB's needed.	IL			Proposed	\$2,715,000			Y	B
B in MTEP11	Central	AmerenIL	2977	5180	6/1/2013	LaSalle-Oglesby 138 kV	Relocate LaSalle Substation	1	138		120	LaSalle 138-34.5 kV Substation - Relocate Substation to avoid flooding and to permit remediation of manufactured gas plant site. (Approx. 1 mile move.)	IL			Proposed	\$1,347,000			Y	B
B in MTEP11	Central	AmerenIL	2979	5182	6/1/2013	AECI Enon Substation	Install 2-345 kV Breakers		345			Enon 345/161 kV Substation - Install 2-345 kV PCB's on incoming 345 kV lines. (Belleau-Enon and Enon-Montgomery	MO			Proposed	\$1,876,000			Y	B
B in MTEP11	Central	AmerenIL	2982	5185	12/1/2013	Washington Street	South Bloomington	1326	138		255	Washington Street-S. Bloomington 138 kV Line 1326 - Replace terminal equipment (wavetrap, 3-CT's and bus conductor) at S. Bloomington with equipment capable of carrying minimum 2000 A under summer emergency conditions.	IL			Proposed	\$137,000			Y	B
B in MTEP11	Central	AmerenIL	3009	5217	6/1/2018	Hutsonville Plant	Merom	1	345		1793	Newton-Hutsonville 345 kV line - New 40 mi. 3000 A summer emergency capability line. Hutsonville-Merom 345 kV line - New 12 mi. 3000 A summer emergency capability line. 345/138 kV 560 MVA transformer @ Hutsonville	IL		12	Proposed	\$100,000,000			Y	B
B in MTEP11	Central	AmerenIL	3009	5218	6/1/2018	Hutsonville Plant	Install 345/138 kV Xfmr	1	345	138	560	Newton-Hutsonville 345 kV line - New 40 mi. 3000 A summer emergency capability line. Hutsonville-Merom 345 kV line - New 12 mi. 3000 A summer emergency capability line. 345/138 kV 560 MVA transformer @ Hutsonville	IL			Proposed	\$10,000,000			Y	B
B in MTEP11	Central	AmerenIL	3010	5219	12/1/2025	Baldwin	N.W. Cape	1	345		1793	Baldwin-Grand Tower-N.W. Cape 345 kV - Construct 69 miles of 3000 A summer emergency capability. Install a 560 MVA, 345/138 kV transformer at Grand Tower	IL		69	Proposed	\$146,000,000			Y	B
B in MTEP11	Central	AmerenIL	3010	5220	12/1/2025	Grand Tower Plant	Install 345/138 kV Xfmr	1	345	138	560	Install a 560 MVA, 345/138 kV transformer at Grand Tower	IL			Proposed	\$5,000,000			Y	B
B in MTEP11	Central	AmerenIL	3201	5775	1/1/2025	Grand Tower	DC Station for 6400 MW		800		6400		IL			Conceptual	\$274,500,000			Y	B
B in MTEP11	Central	AmerenMO	2971	5171	6/1/2012	Rivermines-Maries-1	Tap for Rolla Alfermann Substation	1	138		478	Rolla Alfermann Substation - Tap Rivermines-Maries-1 138 kV line to establish 138 kV supply to new 138-34.5 kV Alfermann Substation, owned by City of Rolla. Ameren to construct tapping structures. 1-138 kV, 1200 A disconnect switch	MO			Planned	\$481,500			Y	B
B in MTEP11	Central	AmerenMO	2971	5170	6/1/2012	Clark-O-2	Tap for Rolla Alfermann Substation	1	138		478	Rolla Alfermann Substation - Tap Clark-Osage-2 138 kV line to establish 138 kV supply to new 138-34.5 kV Alfermann Substation, owned by City of Rolla. Ameren to construct tapping structures. 1-138 kV, 1200 A disconnect switch.	MO			Planned	\$481,500			Y	B

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Target Appendix	Region	Geographic Location by TO Member System	PrjID	Facility ID	Expected ISD	From Sub	To Sub	Ckt	Max KV	Min KV	Facility Rating	Facility Description	State	Miles Upg	Miles New	Plan Status	Estimated Cost	Cost Shared	Postage Stamp	MISC Facility	App ABC
B in MTEP11	Central	AmerenMO	2973	5174	12/1/2016	Mason-Carrollton-8	Connection to Howard Bend 138-12 kV Sub	1	138		478	Howard Bend 138-12 kV Substation - Provide 138 kV ring bus connection from Mason-Carrollton-8 138 kV line to new Howard Bend Substation. Install 1-138 kV, 2000 A PCB at Carrollton Substation as a bus-tie.	MO			Proposed	\$1,371,000			Y	B
B in MTEP11	Central	AmerenMO	2988	5192	6/1/2016	Warrenton	Lincoln 138-34.5 kV Bulk	1	161		280	Warrenton-Lincoln Bulk Substation 161 kV - Establish a second 161 kV supply to Lincoln Bulk Substation from Warrenton Substation. 10 miles of new 161 kV line, 2-161 kV, 2000 A PCBs at Warrenton Substation.	MO		10	Proposed	\$12,000,000			Y	B
B in MTEP11	East	ITC	3282	6114	12/31/2013	Southfield	Sunset	1	120		220	Rebuild 6.4 mile 120 kV line	MI	6.4		Planned	\$7,100,000			Y	C>B
B in MTEP11	East	METC	1803	3618	12/31/2013	Plum	Stover	1	138		191	Rebuild 8.8 miles (230 kV construction, operate at 138 kV)	MI	8.8		Planned	\$10,900,000			Y	C>B
B in MTEP11	East	METC	1815	3649	12/31/2014	Chase	Mecosta	1	138		108	Rebuild 7.2 miles (230 kV construction, operate at 138 kV)	MI	7.2		Planned	\$8,900,000			Y	C>B
B in MTEP11	West	ATC LLC	2799	4924	7/1/2013	Kinchelo Tap	Kinross	1	69		84 MVA	Construct a 3 mile line to connect the Kinross load	MI		3	Conceptual	\$3,882,248			Y	C>B
B in MTEP11	West	ATC LLC	3119	5464	6/1/2016	Tone	Kincheloe	1	69		48 MVA	Increase ground clearance for 6923 Pine River-9Mile 69kV line to 167 deg f clearance	MI	2.51		Proposed	\$299,043			Y	C>B
B in MTEP11	West	ATC LLC	3119	5465	6/1/2016	Kincheloe	9 Mile	1	69		48 MVA	Increase ground clearance for 6923 Pine River-9Mile 69kV line to 167 deg f clearance	MI	8.18		Proposed	\$980,861			Y	C>B
B in MTEP11	West	ATC LLC	3119	5463	6/1/2016	Rudyard	Tone	1	69		48 MVA	Increase ground clearance for 6923 Pine River-9Mile 69kV line to 167 deg f clearance	MI	5.85		Proposed	\$693,780			Y	C>B
B in MTEP11	West	ATC LLC	3119	5462	6/1/2016	Pine River	Rudyard	1	69		48 MVA	Increase ground clearance for 6923 Pine River-9Mile 69kV line to 167 deg f clearance	MI	0.22		Proposed	\$26,316			Y	C>B
B in MTEP11	West	ATC LLC	3209	5976	10/25/2013	Edgewater	Transformer	1	138	69	60	Replace Edgewater 138/69kV Tr T21 with a larger unit and uprate terminal equipment to a minimum of the transformer ratings	WI			Proposed	\$2,704,736			Y	C>B
B in MTEP11	West	ATC LLC	3209	5977	10/25/2013	Edgewater	Transformer	2	138	69	60	Replace Edgewater 138/69kV Tr T22 with a larger unit and uprate terminal equipment to a minimum of the transformer ratings	WI			Proposed	\$2,704,735			Y	C>B
B in MTEP11	West	ATC LLC	3490	6450	4/15/2013	Doylestown	Rio Pumping Station	1	69		72	Asset Management project to Rebuild Y-20 Doylestown to Rio Pumping Station	WI	11.46		Planned	\$7,400,000			Y	C>B
B in MTEP11	West	ATC LLC	3514	6493	9/1/2013	96th Street Sub			138				WI			Proposed	\$28,000,000			Y	C>B
B in MTEP11	West	ATC LLC	3514	6494	9/1/2013	Walker Load Move						Relocate Walker Load from line 96S to line 5042 BMD	WI			Proposed				Y	C>B
B in MTEP11	West	ATC LLC	3519	6515	12/31/2012	Riverbend			138	24.9		Loop the Ranegline-Port Washington 138 kV line 731 into a new breakered Riverbend SS	WI		0.078	Proposed	\$3,016,359			Y	C>B
B in MTEP11	West	MEC	3201	5774	1/1/2025	IA-G	DC Station for 6400 MW		800		6400		IA			Conceptual	\$274,500,000			Y	B
B in MTEP11	West	MEC	3201	5772	1/1/2025	Lakefield Jct	DC Station for 6400 MW		800		6400		MN			Conceptual	\$274,500,000			Y	B
B in MTEP11	West	MEC	3201	5773	1/1/2025	IA-B	DC Station for 6400 MW		800		6400		IA			Conceptual	\$274,500,000			Y	B
B in MTEP11	West	MEC	3214	6098	12/1/2015	Sub 17	Sub 39	1	161		260	Sub 17 & Sub 39 Replace Relays 161-17-39-1 and Remove Wave Trap	IL			Proposed	\$225,000			Y	C>B
B in MTEP11	West	MEC	3215	6089	6/1/2014	Sub 49	Capacitor		161	50		Sub 49 161 kV 50 MVAr Capacitor	IL			Proposed	\$840,000			Y	C>B
B in MTEP11	West	MEC	3216	6096	6/1/2014	Plymouth			161	450		Plymouth Substation 161 kV Line Terminal	IA			Planned	\$500,000			Y	C>B
B in MTEP11	West	MEC	3216	6097	6/1/2014	Sioux City			161	450		WAPA Sioux City 161kV Line Terminal	IA			Planned	\$500,000			Y	C>B
B in MTEP11	West	MEC	3216	6095	6/1/2014	Plymouth	Sioux City	2	161	450		Plymouth-Sioux City 161 kV Line	IA		2	Planned	\$1,400,000			Y	C>B
B in MTEP11	West	MEC	3266	6085	6/1/2016	Sub 56	Sub 89	1	161		314	Sub 56-89 161 kV line uprate	IA			Proposed	\$680,000			Y	C>B
B in MTEP11	West	OTP	3431	6327	10/1/2012	Hankinson 230	Hankinson 41.6		230	41.6		Add a second 230/41.6 kV transformer at Hankinson Substation which will include the addition of 2 new 230 kV breakers.	ND			Planned	\$835,000			Y	C>B
B in MTEP11	West	OTP	3462	6388	10/30/2012	Karlstad 115 kV	Viking 115 kV	1	115	115		Add 3 breaker 115 kV ring bus	MN			Proposed	\$2,800,000			Y	C>B
B in MTEP11	West	OTP	3464	6390	12/1/2012	Donaldson 41.6	Donaldson -town 41.6 kV	1	41.6			Add 3 Way Switch on 41.6 kV line between Donaldson 115 kV substation to Donaldson distribution sub.	MN			Proposed	\$160,000			Y	B
B in MTEP11	West	OTP	3465	6391	12/31/2012	Donaldson 115 kV	Donaldson 41.6 kV		115	41.6		Add 3 new 115 kV Breakers & expand substation to accommodate wind farm.	MN			Proposed	\$1,500,000			Y	B

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Target Appendix	Region	Geographic Location by TO Member System	Proj ID	Facility ID	Expected ISD	From Sub	To Sub	Okt	Mvar kV	Miles kV	Facility Rating	Facility Description	State	Miles Upgr	Miles New	Plan Status	Estimated Cost	Cost Shared	Postage #Stamp	MISO Facility	App ABC
B in MTEP11	West	XEL	3201	5771	1/1/2025	Brookings	DC Station for 6400 MW		800		6400		SD			Conceptual	\$274,500,000			Y	B
B in MTEP11	West/Cen	MEC, AmerenMo	3201	5769	1/1/2025	IA-B	Hang Rock	1	765		6400		IA/MO/IL/IN/OH	6401		Conceptual	\$2,297,669,299			Y	B
B in MTEP11	West/Nor	XEL, Non-MISO	3201	5770	1/1/2025	Brookings County	Blue Creek	1	765		6400		MN/IA/IL/IN/OH	6401		Conceptual	\$1,731,350,174			Y	B
C	Central	ALTW, Non MISO	2198	4066	8/1/2018	Pontiac	Transformer	1	765	345	2767.5	new transformer	IL			Conceptual	\$15,000,000			Y	C
C	Central	ALTW, Non MISO	2198	4038	8/1/2018	Rock Creek	Pontiac	1	765		3768	new line	IA/IL		108	Conceptual	\$348,000,000			Y	C
C	Central	Ameren	1539	2616	6/1/2015	Roxford	Stallings	1	345		1195	Install PCB at Roxford Substation	IL			Proposed	\$1,000,000			Y	C
C	Central	AmerenIL	1536	2613	6/1/2014	Latham	Mason City	1	138		255	Reconductor Latham Tap-Kickapoo Tap	IL	15.75		Proposed	\$4,670,000			Y	C
C	Central	AmerenIL	1538	2615	6/1/2015	Pana, North	Ramsey, East	1	138		240	Rebuild line for operation at 120 degrees C	IL	18.43		Proposed	\$5,500,000			Y	C
C	Central	AmerenIL	1540	2617	6/1/2014	Sidney	Windsor	1	138		321	Reconductor to 1600 A Summer Emergency	IL	13.1		Proposed	\$3,900,000			Y	C
C	Central	AmerenIL	2232	4146	8/1/2018	Kewanee	Transformer	1	345	138	336	new transformer	IL			Conceptual	\$10,000,000			Y	C
C	Central	AmerenIL	2232	4102	8/1/2018	Kewanee	East Moline	1	345		1793	new line	IL		30.6	Conceptual	\$34,000,000			Y	C
C	Central	AmerenIL	2233	4147	8/1/2018	Kewanee	Tazewell	1	345		1793	new line	IL		60	Conceptual	\$85,000,000			Y	C
C	Central	AmerenIL	2242	4156	6/1/2020	Norris City	Albion	1	345		1793	new line	IL		25.8	Conceptual	\$50,000,000			Y	C
C	Central	AmerenIL	2283	4199	6/1/2014	South Bloomington	138 kV Bus		138			Install two new 2000 A, 138 kV Bus-Tie Breakers	IL			Proposed	\$1,030,000			Y	C
C	Central	AmerenIL	2289	4205	6/1/2014	Benton	W. Frankfort	1	138		175	Reconductor 350 kcmil Copper with 1200 A summer emergency capability	IL	9.62		Proposed	\$1,871,000			Y	C
C	Central	AmerenIL	2290	4206	6/1/2015	Joppa	2nd. 345/161 kV Transformer		345	161	560	Install 2nd. 345/161 kV, 560 MVA Transformer	IL			Proposed	\$4,000,000			Y	C
C	Central	AmerenIL	2293	4209	6/1/2014	N. Lasalle	La Salle Jct.	1	138		321	Reconductor 477 kcmil ACSR w/ 1600 A summer emergency capability in L1556A	IL	9.68		Proposed	\$2,515,000			Y	C
C	Central	AmerenIL	2294	4210	6/1/2013	Stallings 345/138 kV Substation	138 kV Bus-Tie Position 1302		138		478	Reconnect or replace 1200 A CT to 2000 A	IL			Proposed				Y	C
C	Central	AmerenIL	2295	4211	6/1/2015	W. Mt. Vernon	E. W. Frankfort	1	345		1200	Upgrade terminal equipment to 3000 A	IL			Proposed	\$1,366,000			Y	C
C	Central	AmerenIL	2299	4215	6/1/2015	Fargo 138-69 kV Substation	138 kV Capacitor Bank		138			Install 138 kV Capacitor Bank (size to be determined)	IL			Proposed	\$1,500,000			Y	C
C	Central	AmerenIL	2300	4216	6/1/2019	Hennepin Plant	2-3000 A PCB's		138			Install 2-3000 A, 138 kV Bus-Tie Breaker	IL			Proposed	\$9,124,000			Y	C
C	Central	AmerenIL	2301	4217	6/1/2014	Hennepin	Oglesby Line 1556	1	138		321	Reconductor 477 kcmil ACSR to 1600 A summer emergency capability	IL	8.37		Proposed	\$4,215,000			Y	C
C	Central	AmerenIL	2302	4218	6/1/2015	Madison Industrial	Madison State Street	1	138		240	Reconductor 795 SAC to 1200 A summer emergency capability	IL	2.35		Proposed	\$710,000			Y	C
C	Central	AmerenIL	2305	4220	6/1/2013	Monmouth 138/69 kV Substation	30 Mvar, 138 kV Capacitor Bank		138			Install 30 Mvar, 138 kV Capacitor Bank	IL			Proposed	\$1,022,000			Y	C
C	Central	AmerenIL	2983	5186	6/1/2014	Mt. Carmel	Install Capacitor Bank(s)		138			Mt. Carmel - Install capacitor bank(s).	IL			Proposed	\$1,500,000			Y	C
C	Central	AmerenIL	2985	5188	6/1/2014	Monmouth Blvd. Sub.	Install 138 kV, 30 Mvar Capacitor Bank		138		30	Monmouth Blvd 138/69 kV Substation - Install 138 kV 30 Mvar capacitor bank and circuit breaker.	IL			Proposed	\$1,500,000			Y	C
C	Central	AmerenIL	2994	5199	6/1/2015	Wood River-N. Staunton-1436	Supply to Gillespie Macoupin 138-34.5 kV Sub.	1	138		280	Gillespie Macoupin 138-34.5 kV Substation - Tap Wood River-North Staunton 138 kV Line 1436 and make a 138 kV 'in-out' arrangement at the substation with installation of the 2nd. 138-34.5 kV transformer. 2-2000 A, 138 kV PCB's needed.	IL			Proposed	\$2,000,000			Y	C
C	Central	AmerenIL	2995	5200	6/1/2015	Brokaw	Normal East	1	138		240	Brokaw 345/138 kV Substation - Replace 477 kcmil ACSR Bus Conductor in Brokaw-Normal East 138 kV Line 1578 position with conductor capable of carrying 1200 A continuously.	IL			Proposed	\$100,000			Y	C
C	Central	AmerenIL	2999	5205	6/1/2015	LaSalle	Oglesby	1496	138		240	LaSalle-Oglesby Main 138 kV Line 1496 - Reconductor 2.16 miles of 477 kcmil ACSR and 336 kcmil ACSR with conductor capable of carrying 1200 A under summer emergency conditions.	IL	2.16		Proposed	\$650,000			Y	C
C	Central	AmerenIL	3001	5208	6/1/2015	Baldwin-Pr. State 345 kV Sub.	Supply to Mascoutah Sub.	1	345		1195	Mascoutah Area 345/138 kV Substation - Supply from the Baldwin-Prairie State 345 kV line.	IL		1	Proposed	\$1,000,000			Y	C

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Target Appendix	Region	Geographic Location by ID Member System	ProjID	Facility ID	Expected ISD	From Sub	To Sub	Dkt.	Max kv	Min kv	Facility Rating	Facility Description	State	Miles Upg.	Miles New	Plan Status	Estimated Cost	Cost Shared	Postage Stamp	MISO Facility	App/ABC
C	Central	AmerenIL	3001	5207	6/1/2015	Mascoutah Area	New 345/138 kV Xfmr	1	345	138	560	Mascoutah Area 345/138 kV Substation - Install a new 345/138 kV Substation. 1-560 MVA 345/138 kV transformer, 3-345 kV PCB's, 1-138 kV PCB.	IL			Proposed	\$8,000,000			Y	C
C	Central	AmerenIL	3002	5209	6/1/2015	N. Decatur	Clinton Rt. 54	1313	138		240	N. Decatur-Clinton Rt. 54 138 kV Line 1313 - Reconductor 5.41 miles of 336 kcmil ACSR conductor in the N. Decatur-County Hwy. 20 line section with conductor capable of carrying 1200 A under summer emergency conditions.	IL	5.41		Proposed	\$1,650,000			Y	C
C	Central	AmerenIL	3004	5211	6/1/2015	Gilman Sub	Install 138 kV capacitor bank	1	138			Gilman 138-69 kV Substation - Install 138 kV capacitor bank and PCB	IL			Proposed	\$1,500,000			Y	C
C	Central	AmerenIL	3005	5212	12/1/2015	S. Belleville	Tilden	1526	138		280	S. Belleville-Tilden 138 kV Line 1526 - Replace 1200 A terminal equipment (PCB, CT's, and bus conductor) at S. Belleville Substation with equipment capable of carrying 2000 A continuously.	IL			Proposed	\$1,100,000			Y	C
C	Central	AmerenIL	3006	5213	6/1/2016	Vermilion	Champaign	1396	138		240	Vermilion-Champaign 138 kV Line 1396 - Reconductor 26.8 miles of 477 kcmil ACSR with minimum 1200 A SE capability.	IL	26.8		Conceptual	\$8,100,000			Y	C
C	Central	AmerenIL	3011	5221	6/1/2017	Joppa	Mound City	1	161		280	Joppa-Mound City 161 kV Line - Reconductor 23.4 mi. 566 ACSR with conductor capable of carrying 1200 A under summer emergency conditions.	IL	23.4		Conceptual	\$7,100,000			Y	C
C	Central	AmerenIL	3012	5222	6/1/2017	Brokaw	Normal, East	1	138		287	Normal East 138/34 kV Substation - Upgrade 600 A terminal equipment to minimum 1200 A SE capability in the Brokaw-Normal East 138 kV line terminal.	IL			Proposed	\$100,000			Y	C
C	Central	AmerenIL	3013	5223	6/1/2017	Turkey Hill	Cahokia	1492	345		1793	Turkey Hill-Cahokia 345 kV - Reinsulate the existing Turkey Hill-Cahokia 138 kV Line 1492 (18.8 miles) to 345 kV service.	IL	18.8		Proposed	\$1,000,000			Y	C
C	Central	AmerenIL	3015	5225	6/1/2018	Grand Tower Plant	E. W. Frankfort	1	345		1793	Grand Tower-E.W. Frankfort 345 kV - New 41 mile, 345 kV, 3000 A line. 345 kV PCBs: 2-Grand Tower; 2-E.W. Frankfort	IL		41	Conceptual	\$82,000,000			Y	C
C	Central	AmerenIL	3016	5226	11/15/2019	Galesburg Sub	Install 345/138 kV Xfmr	1	345	138	560	Galesburg 345/138 kV Substation - 1-560 MVA 345/138 kV transformer, 3-345 kV PCBs for 345 kV ring bus	IL			Conceptual	\$18,480,000			Y	C
C	Central	AmerenIL	3018	5228	6/1/2018	Tazewell	Tremont Tap	1	138		160	-Meredosia-Ipava 345 kV Line - New 43 mi. double-circuit line from Meredosia to Ipava.	IL	3	3	Conceptual	\$2,922,000			Y	C
C	Central	AmerenIL	3019	5229	6/1/2018	Oglesby Substation	New 345/138 kV Xfmr	1	345	138	560	-3-Position 345 kV Ring Busses at Meredosia, Quincy, Ipava	IL			Conceptual	\$6,000,000			Y	C
C	Central	AmerenIL	3021	5231	6/1/2018	Mound City	Charleston	1	161		280	Mound City-Charleston 161 kV Line - New 20 mile, 1200 A summer emergency capability line. 3-161 kV PCBs: 2-Mound City, 1-Charleston.	IL		20	Conceptual	\$23,000,000			Y	C
C	Central	AmerenIL	3023	5233	6/1/2018	E. Collinsville	Porter Rd.	1432	138		411	E. Collinsville-Porter Road 138 kV Line 1432 - Reconductor 5.15 miles of 477 kcmil ACSR with conductor capable of carrying 2000 A under summer emergency conditions.	IL	5.15		Proposed	\$1,600,000			Y	C
C	Central	AmerenIL	3024	5234	6/1/2015	Bunsonville Sub	Install 2nd. 345/138 kV Xfmr		345	138		Bunsonville 345/138 kV Substation - Install 2nd. 560 MVA Transformer.	IL			Proposed	\$5,000,000			Y	C
C	Central	AmerenIL	3026	5236	6/1/2019	Havana Plant	Connection to R.A.T.	1	138			Havana Plant 138 kV Switchyard - Add 138 kV Connection for new Reserve Auxiliary Transformer needed to supply new pollution control load.	IL			Conceptual	\$100,000			Y	C

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Target Appendix	Region	Geographic Location by TO Member System	Proj ID	Facility ID	Expected ICB	From Sub	To Sub	Ckt	Max KV	Min KV	Facility Rating	Facility Description	State	Miles Up	Miles New	Plan Status	Estimated Cost	Cost Shared	Postage Stamp	MISO Facility	App ABC
C	Central	AmerenIL	3029	5241	6/1/2019	Gibson City	Brokaw	1	138		240	Gibson City Plant 138 kV Outlet - Increase capability of Gibson City-Brokaw and Gibson City-Paxton 138 kV lines.	IL	28.39		Conceptual	\$6,750,000			Y	C
C	Central	AmerenIL	3030	5242	6/1/2019	Gibson City	Paxton	1	138		240	Gibson City Plant 138 kV Outlet - Increase capability of Gibson City-Brokaw and Gibson City-Paxton 138 kV lines.	IL	15.93		Conceptual	\$6,750,000			Y	C
C	Central	AmerenIL	3033	5249	6/1/2019	Dupo	Dupo Ferry	1	138		411	New Dupo-Dupo Ferry 138 kV 2000 A line.	IL		0.5	Conceptual	\$1,500,000			Y	C
C	Central	AmerenIL	3033	5248	6/1/2019	Cahokia	Dupo	1	345		1793	New 8 mi. 3000 A 345 kV line from Cahokia Substation, 2-345 kV PCBs @ Cahokia, and 138 kV Outlet to Cahokia-Meramec circuits near Lemay Taps. New Dupo-Dupo Ferry 138 kV 2000 A line.	IL		8	Conceptual	\$14,692,000			Y	C
C	Central	AmerenIL	3033	5247	6/1/2019	Dupo Sub	New 345/138 kV Xfmr	1	345	138	560	Dupo Area 345/138 kV Substation - 1-560 MVA Transformer, 8-138 kV PCBs.	IL			Conceptual	\$6,000,000			Y	C
C	Central	AmerenIL	3035	5251	6/1/2019	Kimundry	Salem, West	1	138		240	Kimundry-Salem, West 138 kV line - Increase clearances to ground.	IL	10.33		Conceptual	\$1,100,000			Y	C
C	Central	AmerenIL	3036	5252	6/1/2019	Latham Sub	Install 2nd. 345/138 kV Xfmr	2	345	138	448	Latham 345/138 kV Substation - Install 2nd. 345/138 kV, 448 MVA Transformer. 1-345 kV PCB, 1-138 kV PCB.	IL			Conceptual	\$5,000,000			Y	C
C	Central	AmerenIL	3037	5253	6/1/2019	Rush Island	Dupo	1	345		1793	Rush Island-Dupo 345 kV Line - New 27 mile, 3000 A summer emergency capability line. Design for double-circuit. 2-345 kV PCBs: 1-Rush Island, 1-Dupo.	IL		27	Conceptual	\$49,000,000			Y	C
C	Central	AmerenIL	3039	5255	6/1/2020	Grand Tower Plant	Joppa Plant	1	345		1793	Grand Tower-Joppa 345 kV Line - New 50 mile 345 kV, 3000 A line. 345 kV PCBs: 2-Grand Tower, 1-Joppa.	IL		50	Conceptual	\$100,000,000			Y	C
C	Central	AmerenIL	3040	5256	6/1/2020	Tazewell	S. Bloomington	1	345		1793	Tazewell-South Bloomington 345 kV Line - New 35 mile, 345 kV, 3000 A line. 345 kV PCBs: 2 at Tazewell, 3 at South Bloomington switching station.	IL		35	Conceptual	\$87,500,000			Y	C
C	Central	AmerenIL	3043	5259	6/1/2020	LaSalle	Oglesby	1	345		1793	LaSalle-Oglesby 345 kV Line - New 22 mi. 3000 A summer emergency capability line; 1-345 kV PCB at LaSalle, 1-138 kV PCB at Oglesby.	IL		22	Conceptual	\$44,000,000			Y	C
C	Central	AmerenIL	3044	5260	6/1/2021	Roxford	Pawnee	1	345		1793	Roxford-Pawnee 345 kV Line - New 60 mile, 3000 A summer emergency capability line. 3-345 kV PCBs (1-Roxford, 2-Pawnee). Install WAMS - PMU at Pawnee on new line terminal.	IL		60	Conceptual	\$120,000,000			Y	C
C	Central	AmerenIL	3175	5606	6/1/2020	Palmyra Tap	Pawnee	1	765		3975	Construct new 765 kV Line	IL		117.7	Conceptual	\$347,557,224			Y	C
C	Central	AmerenIL	3176	5607	6/1/2020	Pawnee	Breed	1	765		3975	Construct new 765 kV Line	IL		140.4	Conceptual	\$404,702,844			Y	C
C	Central	AmerenIL	3177	5608	6/1/2020	Pawnee	Substation		765	345	2250	Install 765/345 kV Transformer	IL			Conceptual	\$28,200,000			Y	C
C	Central	AmerenIL	3178	5609	6/1/2020	Pawnee	Powerton	1	765		3975	Construct new 765 kV Line	IL		79.2	Conceptual	\$224,509,670			Y	C
C	Central	AmerenIL	3182	5613	6/1/2020	St. Francois	Grand Tower	1	765		3975	Construct new 765 kV Line	MO		63.4	Conceptual	\$193,607,736			Y	C
C	Central	AmerenIL	3183	5614	6/1/2020	Grand Tower	Substation		765	345	2250	Install 765/345 kV Transformer	IL			Conceptual	\$28,200,000			Y	C
C	Central	AmerenIL	3184	5615	6/1/2020	Grand Tower	Rockport	1	765		3975	Construct new 765 kV Line	IL		172	Conceptual	\$494,506,712			Y	C
C	Central	AmerenIL	3197	5652	5/1/2014	Kewanee	Transformer	1	161	138		new transformer	IL			Proposed	\$4,000,000			Y	C
C	Central	AmerenIL	3197	5651	6/1/2017	Oak Grove	Kewanee	1	161			new line	IL		38	Proposed	\$57,000,000			Y	C
C	Central	AmerenIL	3198	5654	5/1/2014	Kewanee	Transformer	1	345	138		new transformer	IL			Proposed	\$5,000,000			Y	C
C	Central	AmerenIL	3198	5655	5/1/2014	Kewanee	Transformer	1	345	138		new transformer	IL			Proposed	\$5,000,000			Y	C
C	Central	AmerenIL	3198	5653	6/1/2017	Oak Grove	Kewanee	1	345			new line	IL		38	Proposed	\$76,000,000			Y	C
C	Central	AmerenIL	3336	6201	6/1/2014	Gilman	Watseka	1	138		322	Reconductor to 1600 A summer emergency capability	IL	15.21		Proposed	\$4,763,000			Y	C
C	Central	AmerenIL	3338	6203	6/1/2013	Lanesville		1	345	138	560	Replace existing transformer with a 560 MVA unit	IL			Proposed	\$4,000,000			Y	C
C	Central	AmerenIL	3339	6204	6/1/2014	Pana, North	Taylorville, South	1	138		322	Reconductor to 1600 A summer emergency capability. Upgrade terminal equipment to match	IL	12.91		Proposed	\$4,073,000			Y	C

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Target Appendix	Region	Geographic Location by TO Member System	Proj ID	Facility ID	Expected ISD	From/Sub	To/Sub	Ckt	Max kV	Min kV	Facility Rating	Facility Description	State	Miles Upp	Miles New	Plan Status	Estimated Cost	Cost Shared	Postage Stamp	MISO Facility	App ABC	
C	Central	AmerenIL	3340	6205	6/1/2016	Pawnee, North	Taylorville, South	1	138		240	Replace bus conductor at both terminals to 1200 A summer emergency capability	IL	17.99		Proposed	\$100,000			Y	C	
C	Central	AmerenIL	3341	6206	6/1/2015	Diamond Star	West Washington Street	1	138		240	Reconductor 336 kcmil ACSR conductor to 1200 A summer emergency capability	IL	1.25		Proposed	\$375,000			Y	C	
C	Central	AmerenIL	3342	6207	6/1/2015	Diamond Star	McClellan County Sw. Station	1	138		160	Increase ground clearance on 477 kcmil ACSR conductor	IL	2.4		Proposed	\$240,000			Y	C	
C	Central	AmerenIL	3343	6208	6/1/2015	Raab Rd	White Oak Tap	1	138		160	Increase ground clearance on 477 kcmil ACSR conductor	IL	3.92		Proposed	\$400,000			Y	C	
C	Central	AmerenIL	3344	6209	6/1/2015	El Paso Tap	Minonk Tap	1	138		160	Increase ground clearance on 477 kcmil ACSR conductor	IL	13.88		Proposed	\$1,300,000			Y	C	
C	Central	AmerenIL	3345	6210	6/1/2016	R. S. Wallace	E. Peoria	1	138		159	Increase ground clearance on 477 kcmil ACSR	IL	0.6		Proposed	\$60,000			Y	C	
C	Central	AmerenIL	3346	6211	6/1/2016	Mason	Holland	1	138		240	Reconductor 795 kcmil ACSR to 1200 A summer emergency capability	IL	0.05		Proposed	\$25,000			Y	C	
C	Central	AmerenIL	3347	6212	6/1/2016	Mason	San Jose Rail	1	138		240	Reconductor 795 kcmil ACSR to 1200 A summer emergency capability	IL	0.05		Proposed	\$25,000			Y	C	
C	Central	AmerenIL	3348	6213	6/1/2017	Pawnee Sub	Install 2nd. 345/138 kV xfmr	1	345	138	560	Pawnee, West 345/138 kV Substation - Replace existing transformer with 560 MVA unit	IL			Proposed	\$5,000,000			Y	C	
C	Central	AmerenIL	3349	6214	6/1/2020	East Galesburg	Monmouth Blvd.	1	138		160	Replace breaker at East Galesburg with 1200 A breaker. Replace terminal equipment to 1200 A capability.	IL	8.55		Conceptual	\$1,000,000			Y	C	
C	Central	AmerenIL	3350	6215	12/1/2012	East Kewanee	Princeton Tap	1	138		240	Reconductor 477 kcmil ACSR conductor to 1200 A summer emergency capability. Replace terminal equipment at East Kewanee to 1200 A capability.	IL	15.33		Planned	\$2,656,000			Y	C	
C	Central	AmerenIL	3351	6216	6/1/2015	Wood River Sub	Install 2-138 kV Bus-Tie Breakers		138		478	Install 2-2000 A, 138 kV bus-tie breakers	IL			Proposed	\$2,000,000			Y	C	
C	Central	AmerenIL	3352	6217	6/1/2013	West Tilton Sub	Install 40 Mvar Cap Bank		138				Install 40 Mvar, 138 kV capacitor bank.	IL			Proposed	\$1,500,000			Y	C
C	Central	AmerenIL	3353	6218	6/1/2012	Edwards	Keystone	1	138		382	Replace 138 kV, 1200 A breaker and terminal equipment at Keystone terminal to 2000 A capability	IL	3.27		Proposed	\$1,100,000			Y	C	
C	Central	AmerenIL	3354	6219	6/1/2014	Edwards	Caterpillar Sub 1	1	138		220	Increase ground clearand on 795 kcmil ACSR and 927 ACAR conductor	IL	9.47		Proposed	\$950,000			Y	C	
C	Central	AmerenIL	3362	6229	9/30/2013	California Ridge Switching Station	Generator connection		138			Install a 3-position ring bus to facilitate connection of wind farm (H100) to the Sidney-Rantoul Jct. 138 kV line.	IL			Proposed	\$3,240,000			Y	C	
C	Central	AmerenIL	3369	6240	6/1/2012	Quincy, East	Replace 138-34.5 kV Trnformer Bank #3		138		112	Replace 138-34.5 kV Transformer Bank #3 with a 112 MVA unit. Replace 600 A, 138 kV disconnect switch with minimum 800 A capability	IL			Planned	\$100,000			Y	C	
C	Central	AmerenIL, Non-MI	2197	4061	8/1/2018	St. Francois	Rockport	1	765		2904	new line	MO/IL/IN		186	Conceptual	\$599,000,000			Y	C	
C	Central	AmerenIL, Non-MI	2215	4064	8/1/2018	Coffeen	Sullivan	1	765		3768	new line	IL/IN		100	Conceptual	\$322,000,000			Y	C	
C	Central	AmerenMO	2122	3977	11/17/2011	Point Prairie 161-34.5 kV Sub	AECI Enon Substation	1	161		280	Extend 1 mile of line to AECI Enon Substation	MO		1	Planned	\$1,896,500			Y	C	
C	Central	AmerenMO	2292	4208	6/1/2016	Kelso	345/161 kV, 336 MVA Transformer		345	161	450	Replace 345/161 kV, 336 MVA Transformer w/ 450 MVA Transformer	MO			Proposed	\$6,134,000			Y	C	
C	Central	AmerenMO	2296	4212	6/1/2013	Belleau 345/138 kV Substation	2nd. 345/138 kV, 560 MVA Transformer		345	138	560	Install 2nd. 345/138 kV, 560 MVA Transformer	MO			Proposed	\$8,335,000			Y	C	
C	Central	AmerenMO	2297	4213	6/1/2013	Belleau 345/138 kV Substation	120 Mvar, 138 kV Capacitor Bank		138			Install 120 Mvar, 138 kV Capacitor Bank (Install as 2-60 Mvar stages)	MO			Proposed	\$3,071,000			Y	C	
C	Central	AmerenMO	2298	4214	6/1/2013	AECI's Enon 345/161 kV Substation	2-345 kV PCB's		345			Install 2-PCB's on incoming 345 kV lines at AECI's Enon Substation	MO			Proposed	\$1,876,000			Y	C	
C	Central	AmerenMO	2975	5176	12/1/2012	Dupo Ferry-Selma-1	Connection to Wings Enterprises	1	138		287	Dupo Ferry-Selma-1 138 kV Line - Install 3 position 138 kV ring bus and extend 138 kV line to serve a customer substation (Wings Enterprises). 3-138 kV, 1200A PCB's	MO			Proposed	\$1,141,000			Y	C	

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Target Appendix	Region	Geographic Location by TO Member System	ProjID	Facility ID	Expected ISB	From Sub	To Sub	Ckt	Max kV	Min kV	Facility Rating	Facility Description	State	Miles Upg	Miles New	Plan Status	Estimated Cost	Cost Shared	Postage Stamp	MISO Facility	App ABC
C	Central	AmerenMO	2987	5191	6/1/2014	Taum Sauk Plant	Install 2-30 Mvar, 138 kV Capacitor Banks		138		60	Taum Sauk 138 kV Capacitor Banks - 2-30 Mvar banks; 2-138 kV synchronous PCBs.	MO			Conceptual	\$1,500,000			Y	C
C	Central	AmerenMO	2990	5194	6/1/2014	Conway	Tyson	3	138		240	Conway-Tyson-3 138 kV - Increase ground clearance on Tyson-Orchard Gardens sections (7 miles)	MO	7		Proposed	\$350,000			Y	C
C	Central	AmerenMO	2990	5195	6/1/2014	Conway	Tyson	4	138		240	Conway-Tyson-4 138 kV - Increase ground clearance on Tyson-Orchard Gardens sections (7 miles)	MO	7		Proposed	\$350,000			Y	C
C	Central	AmerenMO	2991	5196	6/1/2014	Mason 345/138 kV Sub	Replace Xfmr #2	2	345	138	700	Mason 345/138 kV Substation - Replace 345/138 kV, 560 MVA Transformer #2 with a 700 MVA unit	MO			Proposed	\$5,000,000			Y	C
C	Central	AmerenMO	2993	5198	6/1/2014	Dupo Ferry	Buck Knob	1	138		275	Dupo Ferry-Buck Knob 138 kV Line - Replace 22 mi. of 2-300 ACSR with maximum size conductor existing towers will support.	MO	22		Proposed	\$6,600,000			Y	C
C	Central	AmerenMO	2996	5201	6/1/2015	Montgomery	Spencer Creek	1	345		1072	Montgomery-Spencer Creek 345 kV - Increase ground clearance on 28 miles of 795 kcmil ACSR conductor and upgrade terminal equipment at Montgomery Substation.	MO	28		Proposed	\$9,500,000			Y	C
C	Central	AmerenMO	2998	5204	6/1/2015	Overton Substation	2nd. 345/161 kV Xfmr	2	345	161	450	Overton 345/161 kV Substation - 2nd Transformer - 450 MVA; 1-161 kV PCB, 2-345 kV PCBs, 345 kV Ring Bus	MO			Conceptual	\$5,000,000			Y	C
C	Central	AmerenMO	3000	5206	6/1/2015	Miller	New 138/161 kV Xfmr	1	345	161	300	Miller 138/161 kV Substation - Install a new 300 MVA 138/161 kV transformer to convert Miller-Zion line to 161 kV operation and increase voltage support to Jefferson City, Missouri area.	MO			Proposed	\$5,000,000			Y	C
C	Central	AmerenMO	3007	5215	6/1/2016	Camden	Install 161/138 kV Xfmr	1	161	138	300	Install 300 MVA, 161/138 kV autotransformer at Camden	MO			Proposed	\$5,000,000			Y	C
C	Central	AmerenMO	3007	5214	6/1/2016	Camden	Ullman	1	138		322	Camden-Ullman 138 kV Line - Construct 16 miles of 138 kV between Camden Substation and Ullman, with 1600 A summer emergency capability. Install 300 MVA, 161/138 kV autotransformer at Camden	MO		16	Proposed	\$24,000,000			Y	C
C	Central	AmerenMO	3008	5216	6/1/2016	Overton Sub	Install 161 kV, 90 Mvar Capacitor Bank	1	161		90	Overton 161 kV Capacitor Bank - 1-90 Mvar capacitor bank, 1-161 kV synchronous PCB, 1-161 kV reactor.	MO			Conceptual	\$1,500,000			Y	C
C	Central	AmerenMO	3014	5224	6/1/2018	Cape	Joppa	1	161		375	Cape-Joppa 161 kV Line - Reconductor line (40.27 miles) to 1600 A Summer Emergency Capability.	IL	40.27		Proposed	\$12,100,000			Y	C
C	Central	AmerenMO	3020	5230	6/1/2018	Overton	Columbia	1	161		250	Overton-Huntsdale-Columbia 161 kV - Replace 800 A CT at Overton Terminal with 1200 A unit.	MO			Proposed	\$50,000			Y	C
C	Central	AmerenMO	3025	5235	6/1/2019	Rivermines	N. Farmington	2	138		240	Rivermines-N. Farmington 138 kV Line - Construct a second 138 kV line.	MO		5.5	Proposed	\$7,500,000			Y	C
C	Central	AmerenMO	3027	5237	6/1/2019	Campbell Substation	Install 2nd. 345/138 kV Xfmr	2	345	138	560	Campbell 345/138 kV Substation - 2nd 560 MVA transformer; 2-345 kV PCBs (1-Campbell, 1-Roxford); 1-138 kV PCB @ Campbell.	MO			Conceptual	\$6,000,000			Y	C
C	Central	AmerenMO	3028	5240	6/1/2019	Campbell	Page	2	138		411	Campbell-Euclid-Page 138 kV Line - Rebuild 5.25 mi. double-circuit 138 kV 2000 A SE capability. 3-138 kV PCBs (2-Campbell, 1-Page). Operate Euclid 138 kV Bus-Tie normally closed.	MO	5.25		Proposed	\$4,250,000			Y	C

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Target Appendix	Region	Geographic Location by TO Member System	Proj ID	Facility ID	Expected ISO	From Sub	To Sub	Ckt#	Max kV	Min kV	Facility Rating	Facility Description	State	Miles Upg	Miles New	Plan Status	Estimated Cost	Cost Shared	Postage Stamp	MISO Facility	App ABC
C	Central	AmerenMO	3028	5239	6/1/2019	Campbell	Page	1	138		411	Campbell-Euclid-Page 138 kV Line - Rebuild 5.25 mi. double-circuit 138 kV 2000 A SE capability. 3-138 kV PCBs (2-Campbell, 1-Page). Operate Euclid 138 kV Bus-Tie normally closed.	MO	5.25		Proposed	\$4,250,000			Y	C
C	Central	AmerenMO	3028	5238	6/1/2019	Campbell	Roxford	1	345		1793	New 12.8 mi. Roxford-Campbell 345 kV 3000 A summer emergency capability line	MO		12.8	Conceptual	\$12,800,000			Y	C
C	Central	AmerenMO	3030	5243	6/1/2019	Labadie	Mason	3	345		1793	Labadie-Mason 345 kV Line #3 - New 25 mi. 3000 A summer emergency capability line designed for double-circuit. 345 kV PCBs: 1-Labadie, 1-Mason.	MO		25	Proposed	\$37,500,000			Y	C
C	Central	AmerenMO	3031	5245	6/1/2019	Page Area Sub	Install 345/138 kV Xfmr	2	345	138	560	Page Area 345/138 kV Substation - Second of 2-560 MVA transformers. 9-138 kV PCBs: 2-transformer, 1-bus-tie, 6-line (2-Warson, 2-Page, 2-Hunter).	MO			Conceptual	\$5,500,000			Y	C
C	Central	AmerenMO	3031	5244	6/1/2019	Page Area Sub	Install 345/138 kV Xfmr	1	345	138	560	Page Area 345/138 kV Substation - First of 2-560 MVA transformers. 9-138 kV PCBs: 2-transformer, 1-bus-tie, 6-line (2-Warson, 2-Page, 2-Hunter).	MO			Conceptual	\$5,500,000			Y	C
C	Central	AmerenMO	3032	5246	6/1/2019	Campbell	Mason	1	345		1793	Campbell-Page-Mason 345 kV Line - New 16.5 mi. 3000 A summer emergency capability line, plus reutilization of 14.5 miles of existing Page-Sioux-4 at 345 kV.	MO	14.5	16.5	Proposed	\$35,750,000			Y	C
C	Central	AmerenMO	3034	5250	6/1/2019	Loose Creek	Kingdom City	1	345		1793	Loose Creek-Kingdom City 345 kV Line - New 25 mile 345 kV, 3000 A line. 2-345 kV PCBs at Loose Creek, 2-345 kV PCBs at Kingdom City.	MO		25	Conceptual	\$52,000,000			Y	C
C	Central	AmerenMO	3038	5254	6/1/2019	Loose Creek	Pleasant Hill	1	345		1793	Loose Creek-Barnett-Windsor-Pleasant Hill 345 kV Line - New 138 mile 345 kV, 3000 A line. 560 MVA, 345/161 kV transformer at Barnett Substation. 345 kV PCBs: 2 at Loose Creek, 2 at Barnett, 2 at Windsor, 2 at Pleasant Hill.	MO		138	Conceptual	\$249,000,000			Y	C
C	Central	AmerenMO	3042	5258	6/1/2020	Palmyra	Fairport	1	345		1793	Palmyra-Thomas Hill-Fairport - New 122 mile 345 kV, 3000 A line. 345 kV PCBs: 2 at Palmyra, 2 at Thomas Hill, 2 at Fairport.	MO		122	Conceptual	\$220,000,000			Y	C
C	Central	AmerenMO	3045	5261	6/1/2021	St. Francois	Fletcher	1	345		1793	St. Francois-Fletcher 345 kV Line - New 48 mi. 3000 A SE capability. 345 kV terminals at St. Francois & Fletcher. Install WAMS - PMU at St. Francois on new line terminal.	MO		48	Conceptual	\$86,000,000			Y	C
C	Central	AmerenMO	3171	5602	6/1/2018	West Adair	Fairport	1	345		1793	Construct new 345 kV Line	MO		113.2	Conceptual	\$171,818,625			Y	C
C	Central	AmerenMO	3173	5604	6/1/2020	Fairport	Palmyra Tap	1	765		3975	Construct new 765 kV Line	MO		176.6	Conceptual	\$500,335,836			Y	C
C	Central	AmerenMO	3174	5605	6/1/2020	Palmyra Tap	Substation		765	345	2250	Install 765/345 kV Transformer	MO			Conceptual	\$28,200,000			Y	C
C	Central	AmerenMO	3179	5610	6/1/2020	Palmyra Tap	Montgomery	1	765		3975	Construct new 765 kV Line	MO		67.9	Conceptual	\$192,436,860			Y	C
C	Central	AmerenMO	3180	5611	6/1/2020	Montgomery	Substation		765	345	2250	Install 765/345 kV Transformer	MO			Conceptual	\$28,200,000			Y	C
C	Central	AmerenMO	3181	5612	6/1/2020	Montgomery	St. Francois	1	765		3975	Construct new 765 kV Line	MO		104.1	Conceptual	\$295,069,852			Y	C
C	Central	AmerenMO	3187	5625	6/1/2020	St. Francois	Substation		765	345	2250	Install 765/345 kV Transformer	MO			Conceptual	\$28,200,000			Y	C
C	Central	AmerenMO	3356	6222	12/1/2012	Tegeler	Osage	1	138		128	Replace 138 kV disconnect switch at Freeburg with new 1200 A switch	MO			Planned	\$200,000			Y	C
C	Central	AmerenMO	3364	6231	6/1/2015	Franklin Sub.	Install 3-1200 A breakers		138			Install 3-1200 A breakers to accommodate 138 kV supplies to Prairie Dell 138-34.5 kV Substation	MO			Proposed	\$3,000,000			Y	C
C	Central	AmerenMO	3364	6235	6/1/2015	Gray Summit Sub.	Prairie Dell		138	240		Install 138 kV breakers, build 3.1 miles of new double circuit 138 kV line, and connect 9.6 miles of existing 138 kV line presently operated at 34.5 kV to establish supplies to Prairie Dell Substation	MO	7.1	3.1	Proposed	\$1,550,000			Y	C

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Target Appendix	Region	Geographic Location by TO Member System	ProjID	Facility ID	Expected (SD)	From Sub	To Sub	Grk	Max kV	Min kV	Facility Rating	Facility Description	State	Miles Upg	Miles New	Plan Status	Estimated Cost	Cost Shared	Postage Stamp	MISO Facility	App ABC
C	Central	AmerenMO	3364	6234	6/1/2015	Franklin	Prairie Dell		138		240	Install 138 kV breakers, build 3.1 miles of new double circuit 138 kV line, and connect 9.6 miles of existing 138 kV line presently operated at 34.5 kV to establish supplies to Prairie Dell Substation	MO	2.5	3.1	Proposed	\$1,550,000			Y	C
C	Central	AmerenMO	3364	6233	6/1/2015	Prairie Dell Sub.	Install 4-1200 A breakers		138			Install 4-1200 A breakers to accommodate 138 kV supplies to Prairie Dell 138-34.5 kV Substation	MO			Proposed	\$4,000,000			Y	C
C	Central	AmerenMO	3364	6232	6/1/2015	Gray Summit Sub.	Install 1-1200 A breaker		138			Install 1-1200 A breaker to accommodate 138 kV supplies to Prairie Dell 138-34.5 kV Substation	MO			Proposed	\$1,000,000			Y	C
C	Central	AmerenMO	3365	6236	12/1/2011	Delbridge	Install 2000 A breaker and disconnect switches		138	367		Install 2000 A breaker and 2-2000 A 138 kV motor operated disconnect switches	MO			Proposed	\$2,221,000			Y	C
C	Central	AmerenMO	3366	6237	12/1/2011	Wallen Creek	Install 1200 A breaker and disconnect switches		138	240		Install 2000 A breaker and 2-2000 A 138 kV motor operated disconnect switches	MO			Proposed	\$2,221,000			Y	C
C	Central	AmerenMO	3367	6238	9/1/2013	Pershall	Taps to Berkeley-Sioux-1 138 kV		138	240		Install 4-2000 A breaker ring bus and connect to Berkeley-Sioux-1 138 kV to establish 138 kV connections for Pershall 138-12.47 kV Sub	MO			Proposed	\$4,631,000			Y	C
C	Central	AmerenMO, Ameren	2195	4042	8/1/2018	Montgomery	Coffeen	1	765		3576	new line	MO/IL		111	Conceptual	\$343,000,000			Y	C
C	Central	ATC LLC	3486	6443	6/1/2021	Bluemound	Oak Creek	1	138		574	Uprate 138 kV line to 275 F	WI	40		Conceptual	\$1,400,000			Y	C
C	Central	BREC	3435	6338	12/31/2017	Rome Junction	West Owensboro	1	69		72 MVA	reconductor line	KY	5.8	0	Proposed	\$440,000			Y	C
C	Central	BREC	3436	6339	12/31/2018	Wilson	Sacramento	1	69		72 MVA	new line	KY	0	11	Proposed	\$2,100,000			Y	C
C	Central	BREC	3437	6340	12/31/2018	Thruston Junction	East Owensboro	1	69		67 MVA	reconductor line	KY	0.4	0	Proposed	\$40,000			Y	C
C	Central	BREC	3438	6341	12/31/2018	Daviess County	Philpot Tap	1	69		72 MVA	reconductor line	KY	7.7	0	Proposed	\$580,000			Y	C
C	Central	BREC	3439	6342	12/31/2022	Ensor 161 kV	Ensor 69 kV		161	69	56 MVA	new substation	KY			Proposed	\$6,200,000			Y	C
C	Central	BREC	3440	6343	12/31/2024	Reid EHV 161 kV	Reid EHV 69 kV		161	69	56 MVA	new transformer	KY			Proposed	\$5,000,000			Y	C
C	Central	BREC	3441	6344	12/31/2020	Olivet Church Road	Olivet Church Road Tap	1	69		72 MVA	reconductor line	KY	1.4	0	Proposed	\$150,000			Y	C
C	Central	BREC	3442	6345	12/31/2024	White Oak 161 kV	White Oak 69 kV		161	69	56 MVA	new transformer	KY			Proposed	\$1,900,000			Y	C
C	Central	BREC	3443	6346	12/31/2017	Hardinsburg 161 kV	Hardinsburg 69 kV		161	69	100 MVA	new transformers	KY			Proposed	\$4,000,000			Y	C
C	Central	BREC	3444	6347	12/31/2020	Meade Coutny 161 kV	Meade County 69 kV		161	69	56 MVA	new transformer	KY			Proposed	\$700,000			Y	C
C	Central	BREC	3445	6348	12/31/2020	Brandenburg		1	69		6 MVAR	new capacitor	KY			Proposed	\$300,000			Y	C
C	Central	BREC	3446	6349	12/31/2022	Hardinsburg No. 1	Harned	1	69		72 MVA	reconductor line	KY	2	0	Proposed	\$170,000			Y	C
C	Central	DEM	840	819	6/1/2016	Rushville	Capacitor		69		14.4 MVAR	Add capacitor	IN			Planned	\$510,845			NT	C
C	Central	DEM	1249	1957	12/31/2016	Frankfort 230	Capacitor		69		36 MVAR	Install 36 MVAR 69kV capacitor	IN			Planned	\$632,358			NT	C
C	Central	DEM	1264	1981	6/1/2022	Speed			345	138	717	Replace existing 345/138 transformer at Speed with a new transformer rated at 3,000A or higher.	IN			Alternative	\$7,541,500			Y	C
C	Central	DEM	1518	2594	6/1/2016	Curliss	transformer	1	138	69	150	Install new Curliss 138-69 kV sub in the 5884 ckt, 150 MVA xfmr, Install one 69 kV circuit. Convert Glen Este and Batavia dist subs from 34 to 69kV primary voltage.	OH		12.18	Proposed	\$9,818,000			Y	C
C	Central	DEM	1571	3123	6/1/2015	IPL Rockville	Avon East	1	138		306	Construct 4.3 miles / 954ACSR of 138kv line from IPL Rockville to Avon East	IN		4.3	Alternative	\$2,980,000			Y	C
C	Central	DEM	1900	3796	6/1/2015	Avon Industrial Park	new dist sub	1	138	12	306	Avon Industrial Park (aka Central Logistics) - Construct 69/138-12kV - 22.4 MVA sub and 2.6 mile - 69kV radial line from roughly the Avon South sub - unknown if this will be a 69 or 138 kv sub	IN		2.6	Proposed	\$923,000			NT	C
C	Central	DEM	1904	3801	6/1/2015	Batesville	Hillenbrand	1	69		53	Uprate 69kV Batesville to Hillenbrand to 100C - 4/0acsr - 2.1 miles - 69107 ckt	IN	2.1		Planned	\$115,961			NT	C
C	Central	DEM	2124	2909	6/1/2020	Brooklyn	HE Brooklyn	1	69		153	Brooklyn Sub to HE Brooklyn Sub reconductor 1.28 miles of 6940 line 4/0 Cu with 954ACSR@100C	IN	1.28		Planned	\$320,000			NT	C
C	Central	DEM	2125	2910	6/1/2020	Centerton	transformer	1	138	69	168	Upgrade/replace existing 75MVA 138/69kV bank with 150MVA bank	IN			Planned	\$3,091,000			NT	C
C	Central	DEM	2129	2914	6/1/2020	Plainfield South	HE Mooresville Jct	1	69		153	Plainfield South to HE Mooresville Jct 69kV reconductor 4/0Cu with 954ACSR 2.03 miles	IN	2.03		Planned	\$980,000			NT	C

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C	Central	DEM	2135	2920	6/15/2014	Franklin 230	capacitor		69		36 MVAR	Franklin 230 Sub 69kV Cap - Install 36MVAR 69kV bus capacitor bank	IN			Planned	\$400,000			NT	C
C	Central	DEM	2139	2924	6/30/2016	Greenwood West	switch		69		143	Greenwood West Sub - upgrade (or replace, if required) 69kV Loadbreak switch #2 for 1200amp capacity in the 6999 ckt.	IN			Planned	\$50,000			NT	C
C	Central	DEM	2140	2925	6/30/2015	Greenwood West	Lenore Jct.	1	69		100	Greenwood West to Lenore Jct reconductor 69kV - 6949 ckt. with 477ACSR @ 100C conductor	IN	5.51		Planned	\$1,377,500			NT	C
C	Central	DEM	2144	2930	6/30/2015	Franklin 230	Earlywood	1	69		143	Franklin 230kV sub to Earlywood sub reconductor 1.06 mile - 69kV - 69165 line with 954ACSR@100C	IN	1.06		Planned	\$424,000			NT	C
C	Central	DEM	2145	2932	6/1/2020	Franklin 230	Bank 2	2	230	69	239	Replace 230/69kV bank 2 with a 200MVA LTC transformer	IN			Planned	\$2,400,000			Y	C
C	Central	DEM	2145	2931	6/1/2020	Franklin 230	Bank 1	1	230	69	239	Replace 230/69kV bank 1 with a 200MVA LTC transformer	IN			Planned	\$2,400,000			Y	C
C	Central	DEM	2146	2933	6/30/2015	HE Honey Creek Jct	Frances Creek Jct	1	69		143	HE Honey Creek Jct to Frances Creek Jct. reconductor 69kV - 1.12 mile line section of the 69102 ckt. with 954ACSR 100C conductor.	IN	1.12		Planned	\$420,000			NT	C
C	Central	DEM	2147	2934	6/30/2015	Whiteland	Madison Ave Jct	1	69		143	Whiteland Sub to Greenwood North Tap to Madison Ave Jct reconductor 3.44 mile 69kV - 6997 line with 954ACSR 100C conductor.	IN	3.44		Planned	\$1,376,000			NT	C
C	Central	DEM	2247	4076	8/1/2018	Gwynn	Transformer	1	765	345	2767.5	new transformer	IN			Conceptual	\$20,000,000			Y	C
C	Central	DEM	2328	4260	6/1/2015	Speed	HE Bethany	1	69		71.7	Speed to HE Bethany 69kV - 6955 Reconductor Ph2 - Replace 1.6 miles of 4/0 ACSR with 477 ACSR (new limiter 600A switches)	IN	1.6		Planned	\$480,000			NT	C
C	Central	DEM	2329	4261	6/1/2014	Clarksville	Indiana Arsenal	1	69		100	Clarksville to Indiana Arsenal 69kv - 6955 ckt. reconductor 1.1 miles of 4/0acsr with 477ACSR at 100C (this is Phase 2 remainder of 4/0ACSR in this line section)	IN	1.1		Planned	\$330,000			NT	C
C	Central	DEM	2330	4262	6/1/2014	New Albany	HE Georgetown	1	69		100	New Albany to HE Georgetown 69kv - 6970 ckt. Reconductor 1.24 miles of 4/0acsr with 477acsr@100C	IN	1.24		Planned	\$666,000			NT	C
C	Central	DEM	2795	4917	5/1/2015	Rockport (AEP)	Greentown (DEM)	1	765			New 765 kV line from Rockport (AEP) to Greentown (DEM)	IN		240	Proposed	\$1,000,000,000			Y	C
C	Central	DEM	2862	5015	6/1/2016	Staunton	Lone Star Jct	1	138		160	Uprate Staunton to Greencastle Jct to Lonestar Jct 13802 circuit 336ACSR for 100C cond temp operation (Lone Star Jct switches may also need upgraded to 1200A)	IN	19.98		Planned	\$350,000			Y	C
C	Central	DEM	2864	5017	6/1/2020	Centeron	Martinsville	1	69		153	Reconductor the 69kV-69163 ckt - 3.47 miles of 366ACSR 80C and 0.23 miles of 477ACSR 80C to 954ACSR 100C	IN	3.7		Planned	\$1,110,000			NT	C
C	Central	DEM	2868	5021	6/1/2014	Fairfax	Senco Sta. 2	1	69		153	F868 - Reconductor Fairfax to Senco - Replace 4/0 ACSR with 954 ACSR - Approx 4.6 miles	OH	4.6		Proposed	\$1,711,992			NT	C
C	Central	DEM	2873	5026	6/1/2018	Danville East	new dist sub	1	69		12	Construct new Danville East substation near HRH hospital - single 22.4MVA transformer - 6945 ckt to be looped through	IN		0.5	Proposed	\$500,000			NT	C
C	Central	DEM	3382	6255	12/31/2017	Vincennes Vigo St.	convert distribution sub	1	138	12	287	Build new radial 138kV line and add breaker at Vincennes 138kV sub to convert Vigo St. sub from 34kV to 138kV	IN		2.3	Planned	\$1,800,000			Y	C
C	Central	DEM, IPL	2783	3105	5/1/2012	Wheatland	Bloomington	1	345		1200	new line	IN		61	Proposed	\$105,000,000			Y	C
C	Central	DEM, Non-MISO	2213	4087	8/1/2018	Buffington	Ghent	1	345		1000	new line	KY		33.2	Conceptual	\$47,000,000			Y	C
C	Central	IPL	2246	4075	8/1/2018	Petersburg	Transformer	1	765	345	2767.5	new transformer	IN			Conceptual	\$20,000,000			Y	C
C	Central	IPL	2897	5070	6/1/2013	Petersburg	Hanna/Frances Creek	1	345		1195	Increase line rating from 956 to 1195 MVA	IN	111.42		Proposed	\$2,500,000			Y	C
C	Central	IPL	2898	5071	6/1/2014	Hanna	Southeast	1	138		574	Increase line rating from 287 to 574 MVA	IN			Proposed	\$4,000,000			Y	C
C	Central	IPL	2899	5072	6/1/2015	Guion	Whitestown	1	345		1195	Increase line rating from 956 to 1195 MVA	IN	11.14		Proposed	\$1,000,000			Y	C

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C	Central	IPL	2901	5076		Petersburg	Duke Wheatland	1	345		1386	Increase line rating from 956 to 1386 MVA	IN	11.22		Proposed	\$4,000,000			Y	C
C	Central	IPL	2901	5075		Duke Wheatland	Bus Tie Breakers	1	345			Closing the Wheatland bus tie breakers connects the IPL Petersburg - Duke Wheatland - AEP Breed line into the Duke Wheatland 345 kV Substation	IN			Proposed	\$0			Y	C
C	Central	IPL	2901	5074		Hanna/Franklin Township	HE Bloomington	1	345		1195	New	IN		45	Proposed	\$60,400,000			Y	C
C	Central	IPL	2901	5077		Duke Wheatland	AEP Breed	1	345		1386	Increase line rating from 956 to 1386 MVA	IN	40.27		Proposed	\$6,500,000			Y	C
C	Central	MEC, AmerenMo	2194	4041	8/1/2018	Montgomery	Toledo	1	765		2640	new line	IA/MO		275	Conceptual	\$871,000,000			Y	C
C	Central	Non-MISO	2199	4039	8/1/2018	Pontiac	Dequine	1	765		4368	new line	IL/IN		87	Conceptual	\$265,000,000			Y	C
C	Central	Non-MISO	2200	4050	8/1/2018	Dequine	South Chicago	1	765		5376	new line	IN		64	Conceptual	\$161,000,000			Y	C
C	East	ATC LLC, ITC	2208	4082	8/1/2018	Livingston	Dead River	1	345		488	new line	MI		232	Conceptual	\$329,000,000			Y	C
C	East	DEM, Non-MISO	2203	4069	8/1/2018	Blue Creek	Greentown	1	765		6000	new line	IN		59	Conceptual	\$191,000,000			Y	C
C	East	ITC	694	1388	12/31/2018	Saratoga 120 kV	Bunce Creek 120 kV	1	120		313		MI	12.5	0.6	Proposed				Y	C
C	East	ITC	694	1385	12/31/2018	Saratoga 345/120 kV (sw sta provisions)	transformer	1	345	120			MI			Proposed				Y	C
C	East	ITC	694	1387	12/31/2018	Saratoga 120 kV	Wabash 120 kV	1	120		299		MI	13.6	0.6	Proposed				Y	C
C	East	ITC	694	1389	12/31/2018	Saratoga 120 kV	Burns 2 120 kV	1	120		313		MI	17.7	0.6	Proposed				Y	C
C	East	ITC	694	1390	12/31/2018	Saratoga 345 kV	Greenwood 345 kV	1	345		2241		MI	13.4		Proposed				Y	C
C	East	ITC	694	1391	12/31/2018	Saratoga 345 kV	Greenwood 345 kV	2	345		2552		MI		13.4	Proposed				Y	C
C	East	ITC	694	1392	12/31/2018	Saratoga 345 kV	Pontiac 345 kV	1	345		1769		MI	42.9		Proposed				Y	C
C	East	ITC	694	1393	12/31/2018	Saratoga 345 kV	Belle River 345	1	345		2259		MI	16.5	4.2	Proposed				Y	C
C	East	ITC	694	1394	12/31/2018	Saratoga 345/120 kV	transformer	1	345	120	700		MI			Proposed				Y	C
C	East	ITC	694	1386	12/31/2018	Saratoga 120 kV	Robin 120 kV	1	120		444		MI	23.3	0.6	Proposed				Y	C
C	East	ITC	908	936	6/1/2018	Lulu	Monroe 3-4	1	345			New switching station with Majestic-Lemoine and Milan-Allen cut in. New line to Monroe 1-2 and cut Lemoine-Lulu into Monroe 3-4	MI	15		Proposed				Y	C
C	East	ITC	908	3711	6/1/2018	Lulu 345 kV	New Switching Station		345			New switching station with Majestic-Lemoine and Milan-Allen cut in. New line to Monroe 1-2 and cut Lemoine-Lulu into Monroe 3-4	MI			Proposed				Y	C
C	East	ITC	908	938	6/1/2018	Lulu	Allen Junction	1	345			New switching station with Majestic-Lemoine and Milan-Allen cut in. New line to Monroe 1-2 and cut Lemoine-Lulu into Monroe 3-4	MI	19		Proposed				Y	C
C	East	ITC	908	937	6/1/2018	Lulu	Lemoine	1	345			New switching station with Majestic-Lemoine and Milan-Allen cut in. New line to Monroe 1-2 and cut Lemoine-Lulu into Monroe 3-4	MI	42		Proposed				Y	C
C	East	ITC	908	935	6/1/2018	Lulu	Milan	1	345			switching station Majestic-Lemoine and Milan-Allen cut in. New Monroe 1-2 and Lemoine-Lulu into Monroe 3-4	MI	16		Proposed				Y	C
C	East	ITC	908	934	6/1/2018	Lulu	Majestic	1	345			New switching station with Majestic-Lemoine and Milan-Allen cut in. New line to Monroe 1-2 and cut Lemoine-Lulu into Monroe 3-4	MI	51		Proposed				Y	C
C	East	ITC	908	1579	6/1/2018	Lulu	Monroe 1-2	1	345			New switching station with Majestic-Lemoine and Milan-Allen cut in. New line to Monroe 1-2 and cut Lemoine-Lulu into Monroe 3-4	MI	12.1	3	Proposed				Y	C
C	East	ITC	908	1580	6/1/2018	Lemoine	Monroe 3-4	1	345		2000		MI	33.1	3	Proposed				Y	C
C	East	ITC	1012	1582	6/1/2014	Wayne	Newburg	3	120			New line (un-six wire Newburg - Wayne 2)	MI		2.8	Proposed				Y	C
C	East	ITC	1295	5485	6/30/2016	Quaker 120	Southfield 120	2	120		242/290	Rebuild the existing Quaker - Drexel - Southfield 120 kV line to double circuit and build a new Quaker - Southfield 120 kV line (7.5 miles) on the common structures.	MI		7.35	Proposed				Y	C
C	East	ITC	1295	2124	6/30/2016	Quaker 120	To Drexel to Southfield 120	1	120		242/290	Rebuild the existing Quaker - Drexel - Southfield 120 kV line to double circuit and build a new Quaker - Southfield 120 kV line (7.5 miles) on the common structures.	MI		7.35	Proposed				Y	C
C	East	ITC	1382	2370	12/31/2016	Sprague Creek 765 kV	Bridgewater 765 kV	1	765		4465	50 miles of new 765 kV line and new 765 kV Bridgewater Station	MI		50	Proposed	\$225,000,000			Y	C

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C	East	ITC	1382	2375	12/31/2016	Bridgewater 345 kV	Majestic 345 kV	1	345		1828	Taps the majestic end of the Allen Junction-Maj-Monroe 3 ender	MI			Proposed	\$10,000,000			Y	C
C	East	ITC	1382	2374	12/31/2016	Bridgewater 765 kV	South Canton 765 kV	1	765		4465	170 miles of new 765 kV line	MI/OH		170	Proposed	\$600,000,000			Y	C
C	East	ITC	1382	2373	12/31/2016	Site A 765 kV	Marysville 765 kV	1	765		4465	Taps Current Marysville-Dumont 765 kV line	IN/OH			Proposed	\$10,000,000			Y	C
C	East	ITC	1382	2371	12/31/2016	Bridgewater 765 kV	Site A 765 kV	1	765		4465	135 miles of new 765 kV line and new 765 kV Site A Station	IN/OH		135	Proposed	\$530,000,000			Y	C
C	East	ITC	1382	2369	12/31/2016	Sprague Creek 765 kV	Denver 765 kV	1	765		4465	100 miles of new 765 kV line and new 765 kV Sprague Creek Station	MI		100	Proposed	\$400,000,000			Y	C
C	East	ITC	1382	2368	12/31/2016	Kenowa 765 kV	Denver 765	1	765		4465	30 miles of new 765 kV line and new 765 kV Denver Station	MI		30	Proposed	\$150,000,000			Y	C
C	East	ITC	1382	2367	12/31/2016	Cook 765 kV	Kenowa 765 kV	1	765		4465	100 miles of new 765 kV line and new 765 kV Kenowa Station	MI		100	Proposed	\$400,000,000			Y	C
C	East	ITC	1382	2376	12/31/2016	Bridgewater 345 kV	Majestic 345 kV	2	345		1828	Taps the Majestic-Milan 345 kV Circuit	MI			Proposed	\$10,000,000			Y	C
C	East	ITC	1382	2384	12/31/2016	Bridgewater 765/345 kV	transformer	2	765	345	3040	New 765/345 kV Xfmr at Bridgewater	MI			Proposed	\$25,000,000			Y	C
C	East	ITC	1382	2372	12/31/2016	Site A 765 kV	Dumont 765 kV	1	765		4465	Taps Current Marysville-Dumont 765 kV line	IN/OH			Proposed	\$10,000,000			Y	C
C	East	ITC	1382	2377	12/31/2016	Bridgewater 345 kV	Milan 345 kV	1	345		1828	Taps the Majestic-Milan 345 kV Circuit	MI			Proposed	\$10,000,000			Y	C
C	East	ITC	1382	2383	12/31/2016	Bridgewater 765/345 kV	transformer	1	765	345	3040	New 765/345 kV Xfmr at Bridgewater	MI			Proposed	\$25,000,000			Y	C
C	East	ITC	1382	2382	12/31/2016	Sprague Creek 765/345 kV	transformer	1	765	345	3040	New 765/345 kV Xfmr at Sprague Creek	MI			Proposed	\$25,000,000			Y	C
C	East	ITC	1382	2381	12/31/2016	Denver 765/138 kV	transformer	1	765	138	1119	New 765/138 kV Xfmr at Denver	MI			Proposed	\$25,000,000			Y	C
C	East	ITC	1382	2378	12/31/2016	Sprague Creek 345 kV	Blackfoot 345 kV	1	345		795	Taps the Blackfoot-Madrid 345 kV Circuit	MI			Proposed	\$10,000,000			Y	C
C	East	ITC	1382	2379	12/31/2016	Sprague Creek 345 kV	Madrid 345 kV	1	345		795	Taps the Blackfoot-Madrid 345 kV Circuit	MI			Proposed	\$10,000,000			Y	C
C	East	ITC	1382	2380	12/31/2016	Kenowa 765/354 kV	transformer	1	765	345	3040	New 765/345 kV Xfmr at Kenowa	MI			Proposed	\$25,000,000			Y	C
C	East	ITC	1550	2639	5/31/2015	Hager 120 kV	Sunset 120 kV	1	120		351	Transpose line entrance with the Sunset-Southfield 120 kV circuit	MI	0.1		Proposed				Y	C
C	East	ITC	1854	3740	6/1/2018	Riverview	Ironton	1	120			Replace Wave Trap	MI			Proposed				Y	C
C	East	ITC	1854	3739	6/1/2018	Trenton Channel	Jefferson	1	120			reconductor/rebuild line	MI		2.2	Proposed				Y	C
C	East	ITC	1854	3738	6/1/2018	Trenton Channel	Jefferson	1	120			New Line (existing ROW)	MI			Proposed				Y	C
C	East	ITC	1858	3747	6/1/2013	Wayne 345 kV	Substation Equipment		345			replace overloaded station equipment	MI			Proposed				Y	C
C	East	ITC	2205	4045	8/1/2018	Evans	Spreague	1	765		4008	new line	MI		95	Conceptual	\$304,000,000			Y	C
C	East	ITC	2206	4048	8/1/2018	Spreague	Transformer	1	765	345	2767.5	new transformer	MI			Conceptual	\$15,000,000			Y	C
C	East	ITC	2206	4046	8/1/2018	Spreague	Bridgewater	1	765		6000	new line	MI		42	Conceptual	\$120,000,000			Y	C
C	East	ITC	2933	5105	6/1/2013	Superior	Wayne	1	120			Rebuild the 10.5 miles of the Superior to Wayne 120 kV circuit from 477 ACSR to 954 ACSR on new structures.	MI	10.5		Proposed	\$8,800,000			Y	C
C	East	ITC	3129	5505	6/1/2017	Belle River	Bunce Creek 230 kV	1	230			Construct 13.5 miles 954 ACSR 138 kV circuit from Belle River to Bunce Creek	MI		13.5	Proposed				Y	C
C	East	ITC	3129	5504	6/1/2017	Belle River	Transformer	1	345	230		New Transformer	MI			Proposed				Y	C
C	East	ITC	3130	5506	6/1/2013	Stratford	Stratford-New Capacitor		120		50 Mvar	New 50 Mvar Capacitor	MI			Proposed				Y	C
C	East	ITC	3130	5507	6/1/2013	Wabash	Wabash-New Capacitor		120		50 Mvar	New 50 Mvar Capacitor	MI			Proposed				Y	C
C	East	ITC	3140	5518	6/1/2017	Belle River	St. Clair	2	345			Construct 1.12 miles 345 kV circuit from Belle River to St. Clair	MI		1.12	Proposed				Y	C
C	East	ITC	3141	5519	6/1/2014	Redrun	Chestnut	2	120			Construct 5 miles 120 kV circuit from Redrun to Chestnut	MI		5	Proposed				Y	C
C	East	ITC	3142	5520	6/1/2016	L-N-NW	Lincoln	1	120			Rebuild the section L-N-NW - Lincoln of the Lincoln-Northeast-Northwest 120 kV circuit to 954 ACSR conductor.	MI	2.95		Proposed				Y	C
C	East	ITC	3147	5527	6/1/2013	Phoenix	New Capacitor		120		75 Mvar	New 75 Mvar Capacitor	MI			Proposed				Y	C
C	East	ITC	3148	5528	6/1/2013	Riverview	Ironton	1	120			Replace Wave Trap at Riverview	MI			Proposed				Y	C
C	East	ITC	3496	6456	12/31/2012	NERC Alert Facility Ratings for 2012	Throughout system					Verify and remediate facilities as required due to the industry-wide NERC alert	MI			Planned				Y	C
C	East	ITC	3497	6457	12/31/2013	NERC Alert Facility Ratings for 2013	Throughout system					Verify and remediate facilities as required due to the industry-wide NERC alert	MI			Planned				Y	C
C	East	ITC	3498	6458	12/31/2014	NERC Alert Facility Ratings for 2014	Throughout system					Verify and remediate facilities as required due to the industry-wide NERC alert	MI			Planned				Y	C
C	East	ITC, Non-MISO	2204	4067	8/1/2018	Cook	Evans	1	765		4008	new line	MI		99	Conceptual	\$299,000,000			Y	C
C	East	ITC, Non-MISO	2204	4070	8/1/2018	Evans	Transformer	1	765	345	2767.5	new transformer	MI			Conceptual	\$20,000,000			Y	C
C	East	ITC, Non-MISO	2207	4047	8/1/2018	Bridgewater	Blue Creek	1	765		3288	new line	MI		134	Conceptual	\$432,000,000			Y	C

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C	East	ITC, Non-MISO	2207	4049	8/1/2018	Bridgewater	Transformer	1	765	345	2767.5	new transformer	MI			Conceptual	\$15,000,000			Y	C
C	East	ITC, Non-MISO	2209	4068	8/1/2018	Bridgewater	South Canton	1	765		3024	new line	MI/OH		167	Conceptual	\$538,000,000			Y	C
C	East	ITCM, AmerenIL	2785	4895	5/1/2014	Sorenson	+/- 800kV DC converter station	1	800		6400	new +/- 800kV DC converter station	IN			Proposed	\$1,900,500,000			Y	C
C	East	METC	642	1325	6/1/2017	Argenta	Hazelwood(Sag)	1	138			conductor sag	MI	0.1		Proposed	\$50,000			Y	C
C	East	METC	987	1550	6/1/2013	Emmet	Stover	1	138				MI			Proposed	\$10,250,000			Y	C
C	East	METC	1432	2436	6/1/2015	Withey Lake 138kV	Twining 138kV		138			Rebuild 0.2 miles of Withey Lake-Twining 138kV line	MI			Proposed	\$100,000			Y	C
C	East	METC	1573	3125	6/1/2011	Donaldson Creek	Donaldson Creek-New Capacitor		138		23.3 Mvar	New 23.3 Mvar Capacitor	MI			Proposed				Y	C
C	East	METC	1657	2852			Terminal Equipment Upgrade					throughout system	MI			Proposed				Y	C
C	East	METC	1795	3604	6/1/2012	David Jct.	Bingham	1	138			reconductor (removes sag limits)	MI	19		Proposed	\$11,700,000			Y	C
C	East	METC	1800	3611	6/1/2013	Argenta	Riverview	1	138			Remove sag limits	MI			Proposed				Y	C
C	East	METC	1800	3613	6/1/2013	Riverview 138 kV	Substation Equipment		138			upgrade CT, breaker, and switch	MI			Proposed				Y	C
C	East	METC	1800	3612	6/1/2013	Argenta 138 kV	Substation Equipment		138			upgrade CT	MI			Proposed				Y	C
C	East	METC	1804	3620	6/1/2013	Marquette	Substation Equipment		138			upgrade station equipment (relaying at Marquette)	MI			Proposed				Y	C
C	East	METC	1805	3622	6/1/2015	Livingston	Emmet	2	138			new line (existing ROW)	MI			Proposed				Y	C
C	East	METC	1805	3624	6/1/2015	Emmet	Oden	2	138			new line (existing ROW)	MI			Proposed				Y	C
C	East	METC	1805	3621	6/1/2015	Livingston	Emmet	1	138			Rebuild	MI			Proposed				Y	C
C	East	METC	1805	3623	6/1/2015	Emmet	Oden	1	138			Rebuild	MI			Proposed				Y	C
C	East	METC	1807	3626	6/1/2016	Bullock	Murphy	1	138			new line resulting from line re-configuration	MI			Proposed				Y	C
C	East	METC	1807	3627	6/1/2016	Begole	Richland	1	138			new line resulting from line re-configuration	MI			Proposed				Y	C
C	East	METC	1807	3628	6/1/2016	Gleaner	Tittabawassee	1	138			new line resulting from line re-configuration	MI			Proposed				Y	C
C	East	METC	1807	3630	6/1/2016	Bullock 230/138 kV	Transformer	1	230	138		New Transformer	MI			Proposed				Y	C
C	East	METC	1807	3629	6/1/2016	Murphy	Transformer	1	345	230		New Transformer	MI			Proposed				Y	C
C	East	METC	1808	3631	6/1/2017	Cowan Lake Jct	Four Mile	1	138			reconductor	MI	15.5		Proposed				Y	C
C	East	METC	1811	3635	6/1/2018	Gray Rd	Keystone	1	138			new line (existing WPC ROW)	MI		9	Proposed				Y	C
C	East	METC	1816	3650	6/1/2014	Mecosta	Croton	1	138			Rebuild 22 miles from Croton to Nineteen Mile (230 kV construction, operate at 138 kV)	MI	22		Proposed				Y	C
C	East	METC	1831	5499	6/1/2019	Mio	Twining	1	230			New line (existing ROW)	MI		58.65	Proposed				Y	C
C	East	METC	1831	5500	6/1/2019	Mio	Livingston	1	230			New line (existing ROW)	MI		41.85	Proposed				Y	C
C	East	METC	1831	3683	6/1/2019	Tippy	Sunoco Dr.	1	230			New line (existing ROW)	MI		67.41	Proposed				Y	C
C	East	METC	1831	3679	6/1/2019	Crane Road	Hampton	1	345			new line resulting from line re-configuration	MI			Proposed				Y	C
C	East	METC	1831	3680	6/1/2019	Crane Road	Tittabawassee	1	345			new line resulting from line re-configuration	MI			Proposed				Y	C
C	East	METC	1831	3681	6/1/2019	Keystone	Transformer	1	345	230		New Transformer	MI			Proposed				Y	C
C	East	METC	1831	3682	6/1/2019	Livingston	Transformer	1	230	138		New Transformer	MI			Proposed				Y	C
C	East	METC	1831	5501	6/1/2019	Tippy	Keystone	1	230			New line (existing ROW)	MI		36.79	Proposed				Y	C
C	East	METC	1831	5498	6/1/2019	Crane Road	Twining	1	230			New line (existing ROW)	MI		49.35	Proposed				Y	C
C	East	METC	1831	5497	6/1/2019	Ludington	Sunoco Dr.	1	345			new line resulting from line re-configuration	MI			Proposed				Y	C
C	East	METC	1831	5496	6/1/2019	Kenowa	Sunoco Dr.	1	345			new line resulting from line re-configuration	MI			Proposed				Y	C
C	East	METC	1831	5495	6/1/2019	Mio	Livingston	1	345			new line resulting from line re-configuration	MI			Proposed				Y	C
C	East	METC	1831	5494	6/1/2019	Gallagher	Mio	1	345			new line resulting from line re-configuration	MI			Proposed				Y	C
C	East	METC	1831	5493	6/1/2019	Crane Road	Tittabawassee	2	345			new line resulting from line re-configuration	MI			Proposed				Y	C
C	East	METC	1831	5492	6/1/2019	Crane Road	Manning	1	345			new line resulting from line re-configuration	MI			Proposed				Y	C
C	East	METC	1831	5491	6/1/2019	Tippy	Transformer	1	230	138		New Transformer	MI			Proposed				Y	C
C	East	METC	1831	5489	6/1/2019	Plum	Transformer	1	230	138		New Transformer	MI			Proposed				Y	C
C	East	METC	1831	3684	6/1/2019	Livingston	Transformer	1	345	230		New Transformer	MI			Proposed				Y	C
C	East	METC	1831	5486	6/1/2019	Mio	Transformer	1	345	230		New Transformer	MI			Proposed				Y	C
C	East	METC	1831	5490	6/1/2019	Keystone	Transformer	1	230	138		New Transformer	MI			Proposed				Y	C
C	East	METC	1831	5487	6/1/2019	Sunoco Dr.	Transformer	1	345	230		New Transformer	MI			Proposed				Y	C
C	East	METC	1831	3685	6/1/2019	Plum	Keystone	1	230			New line (existing ROW)	MI		23.03	Proposed				Y	C
C	East	METC	1831	3686	6/1/2019	Twining	Transformer	1	230	138		New Transformer	MI			Proposed				Y	C
C	East	METC	1831	3687	6/1/2019	Livingston	Plum	1	230			New line (existing ROW)	MI		30.7	Proposed				Y	C
C	East	METC	1831	3688	6/1/2019	Crane Road	Transformer	1	345	230		New Transformer	MI			Proposed				Y	C
C	East	METC	1831	3689	6/1/2019	Gallagher	Tittabawassee	1	345			new line resulting from line re-configuration	MI			Proposed				Y	C
C	East	METC	1831	5488	6/1/2019	Mio	Transformer	1	230	138		New Transformer	MI			Proposed				Y	C

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Target Appendix	Region	Geographic Location by TO Member System	Proj ID	Facility ID	Expected/SD	From Sub	To Sub	OK	Max KV	Min KV	Facility Rating	Facility Description	State	Miles Upg	Miles New	Plan Status	Estimated Cost	Costs Shared	Postage Stamp	MISO Facility	App ABC
C	East	METC	2490	4487	6/1/2013	Vergennes			138			Terminal equipment upgrade	MI			Proposed	\$275,000			Y	C
C	East	METC	2490	4486	6/1/2013	North Belding			138			Terminal equipment upgrade	MI			Proposed	\$275,000			Y	C
C	East	METC	2810	4941	6/1/2014	Delhi	Canal Jct	1	138			Rebuild 7.5 miles of 138kV line to 954 ACSR	MI	18.7		Proposed	\$5,500,000			Y	C
C	East	METC	2811	4942	6/1/2015	Karn	Cottage Grove	1	138			Rebuild 56miles of 138kV to 954 ACSR.	MI	56		Proposed	\$51,000,000			Y	C
C	East	METC	3103	5436	12/31/2014	Gallagher	breaker		345			new breaker	MI			Proposed	\$2,500,000			Y	C
C	East	METC	3103	5435	12/31/2014	Gallagher	breaker		345			new breaker	MI			Proposed	\$2,500,000			Y	C
C	East	METC	3128	5502	6/1/2015	Emmet	Riggsville	1	138			Construct a new 138 kV 954 ACSR circuit from Emmet to Riggsville	MI		25	Proposed				Y	C
C	East	METC	3128	5503	6/1/2015	Livingston	Riggsville	2	138			Install Livingston to Riggsville 138 kV circuit #2 utilize 954 ACSR conductor	MI		25	Proposed				Y	C
C	East	METC	3131	5508	6/1/2015	Bil-Mar Jct.	Port Sheldon Jct.	1	138			Improve sag clearance	MI			Proposed				Y	C
C	East	METC	3132	5509	6/1/2015	Tallmadge	Tyler	1	138			Improve sag clearance	MI			Proposed				Y	C
C	East	METC	3133	5510	6/1/2014	Claremont	Cornell	1	138			Rebuild/Reconductor the Bell Rd to N. Corunna and the Cornell to N. Corunna sections of 115 CU to 954 ACSR conductor.	MI	4.34		Proposed				Y	C
C	East	METC	3134	5511	6/1/2012	Weadock	Disconnect Switch		138			Replace a disconnect switch at Weadock.	MI			Proposed				Y	C
C	East	METC	3135	5512	6/1/2016	Airport	Alpena	1	138			Rebuild the existing Airport - Alpena circuit on DCT's to 954 ACSR conductor.	MI			Proposed				Y	C
C	East	METC	3135	5513	6/1/2016	Airport	Alpena	2	138			Install a second circuit from Airport to Alpena utilize the 954 ACSR conductor.	MI			Proposed				Y	C
C	East	METC	3136	5514	6/1/2017	Alpena	Iosco	1	138			Rebuild 20 miles from Alpena to Spruce Rd to 954 ACSR conductor and replace limiting station equipment	MI	20		Proposed				Y	C
C	East	METC	3137	5515	6/1/2014	Bard Road	Warren	1	138			Rebuild 20 miles from Bard Road to Warren to 954 ACSR conductor	MI	20		Proposed				Y	C
C	East	METC	3138	5516	6/1/2014	Mio	Gaylord	1	138			Replace terminal equipment at Mio	MI			Proposed				Y	C
C	East	METC	3143	5521	6/1/2019	Northwest	Southfield	1	120			Rebuild the Northwest - Southfield circuit to 1431 ACSR conductor.	MI	0.13		Proposed				Y	C
C	East	METC	3144	5522	6/1/2013	Argenta	Morrow	1	138			Replace terminal equipment at Morrow	MI			Proposed				Y	C
C	East	METC	3145	5525	6/1/2014	Blackstone	Leoni	3	138			Replace the 636 ACSR trainers at Blackstone substation. Upgrade the relaying at Leoni and Blackstone.	MI			Proposed				Y	C
C	East	METC	3145	5524	6/1/2014	Blackstone	Leoni	2	138			Replace the 636 ACSR trainers at Blackstone substation. Upgrade the relaying at Leoni and Blackstone.	MI			Proposed				Y	C
C	East	METC	3145	5523	6/1/2014	Blackstone	Leoni	1	138			Replace the 636 ACSR trainers at Blackstone substation. Upgrade the relaying at Leoni and Blackstone.	MI			Proposed				Y	C
C	East	METC	3146	5526	6/1/2013	Battle Creek	Verona	2	138			Replace the 795 ACSR trainer at Verona.	MI			Proposed				Y	C
G	East	METC	3149	5529	6/1/2013	Four Mile	Trainer		138			Replace the 2-4/0 Cu trainer at Four Mile.	MI			Proposed				Y	C
C	East	METC	3150	5530	6/1/2014	North Belding	Bricker	1	138			Replace the 336.4 ACSR trainer at North Belding.	MI			Proposed				Y	C
C	East	METC	3151	5531	6/1/2014	Spaulding	Pettis Jct.	1	138			Replace the 795 ACSR trainer at Spaulding.	MI			Proposed				Y	C
C	East	METC	3152	5532	6/1/2016	Riggsville	McGulpin	1	138			Replace 266.8 ACSR trainer at McGulpin and 336.4 ACSR trainer at Riggsville.	MI			Proposed				Y	C
C	East	METC	3153	5533	6/1/2016	Oden	Riggsville	1	138			Replace 336.4 ACSR trainer at McGulpin.	MI			Proposed				Y	C
C	East	METC	3300	3619	6/1/2015	Stover	Livingston	1	138			Rebuild (230 kV construction, operate at 138 kV)	MI			Proposed				Y	C
C	East	METC	3492	6452	12/31/2012	NERC Alert Facility Ratings for 2012	Throughout system					Verify and remediate facilities as required due to the industry-wide NERC alert	MI			Planned				Y	C
C	East	METC	3493	6453	12/31/2013	NERC Alert Facility Ratings for 2013	Throughout system					Verify and remediate facilities as required due to the industry-wide NERC alert	MI			Planned				Y	C
C	East	METC	3494	6454	12/31/2014	NERC Alert Facility Ratings for 2014	Throughout system					Verify and remediate facilities as required due to the industry-wide NERC alert	MI			Planned				Y	C
C	East	MPPA	2079	3952	7/1/2015	South Airport Junction	Switches		69	1200 Amps		Upgrade switches from 600A to 1200A	MI			Planned	\$200,000			Y	C
C	East	MPPA	2080	3953	7/1/2019	Barlow Junction	Switches		69	1200 Amps		Upgrade switches from 600A to 1200A	MI			Planned	\$200,000			Y	C
C	East	MPPA	2081	3954	7/1/2019	Cass Road Junction	Switches		69	1200 Amps		Upgrade switches from 600A to 1200A	MI			Planned	\$200,000			Y	C
C	East	NIPS	1973	2763	12/1/2017	Leesburg	Northeast	1	138	287		Upgrade Connections and Circuit	IN	8.5		Conceptual	\$5,279,000			Y	C

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Target Appendix	Region	Geographic Location by TO Member System	ProjID	Facility ID	Expected USD	From-Sub	To-Sub	Ckt	Max kV	Min kV	Facility Rating	Facility Description	State	Miles Upg	Miles New	Plan Status	Estimated Cost	Cost Shared	Postage Stamp	MISO Facility	App ABC
C	East	NIPS	1979	2769	12/1/2014	Maple	Capacitor		69			Add two steps of 8.1 MVAR capacitors on the Maple Substation 69 kV bus.	IN			Conceptual	\$1,080,000			Y	C
C	East	NIPS	1980	2770	12/1/2013	Babcock	Capacitor		69			Add 2 to 3 - 9.0 MVAR stages	IN			Conceptual	\$1,052,000			Y	C
C	East	NIPS	1981	2771	12/1/2013	Kreitzburg	Capacitor		69			Add 2 to 3 - 9.0 MVAR stages	IN			Proposed	\$1,052,000			Y	C
C	East	NIPS	1983	2773	12/1/2016	Dekalb	Transformer	1	138	69	112	Upgrade 138-69 Transformer	IN			Conceptual	\$1,700,000			Y	C
C	East	NIPS	1984	2774	12/1/2017	South Knox	138/69 kV Substation		138	69		New Substation	IN			Conceptual	\$12,568,000			Y	C
C	East	NIPS	1985	2775	12/1/2017	Wolcottville	South Milford	1	69		81	Circuit 6959 - Reconductor 2/0 CU to 336.4kcm ACSR	IN	5.4		Conceptual	\$1,671,000			Y	C
C	East	NIPS	1989	2779	12/1/2017	South Milford	Helmer	1	69		81	Circuit 6959 - Reconductor 2/0 CU to 336.4kcm ACSR	IN	4.7		Conceptual	\$1,037,000			Y	C
C	East	NIPS	1990	2780	12/1/2016	Dekalb	Angola	1	69		81	Circuit 6986 - Reconductor 2/0 CU to 336.4kcm ACSR	IN	16.5		Conceptual	\$9,253,000			Y	C
C	East	NIPS	1993	2783	12/1/2017	South Valparaiso	138/69 kV Substation	1	138	69	168	New 138/69 kV Substation	IN			Conceptual	\$4,917,000			Y	C
C	East	NIPS	1994	2784	12/1/2011	Midway	Bristol	1	69		81	Circuit 6977 - Reconductor 2/0 ACSR to 336.4kcm ACSR	IN	4.1		Planned	\$656,000			Y	C
C	East	NIPS	1998	2788	12/1/2013	East Winamac	Lawton	1	69			Rebuild old pole line. Ckts 6962 & 6937	IN	4.5		Proposed	\$1,339,000			Y	C
C	East	NIPS	2000	2790	12/1/2014	Goshen Junction	Model Tap	1	69		81	Circuit 6977 - Reconductor 4/0 ACSR to 336.4kcm ACSR	IN	0.5		Planned	\$52,000			Y	C
C	East	NIPS	2003	2793	12/1/2014	Bruce Lake	Sw. 854	1	69			Circuit 6937 - Rebuild old pole line.	IN			Proposed	\$957,800			Y	C
C	East	NIPS	2244	4158	8/1/2018	Stillwell	Burr Oak	1	345		1000	new line	IN		19.3	Conceptual	\$28,000,000			Y	C
C	East	NIPS	2319	4245	5/1/2013	South Chalmers	Switch #62		69			South Chalmers MO 62 load breaks and switch replacement.	IN			Proposed	\$25,000			Y	C
C	East	NIPS	2320	4246	12/1/2010	Thayer	Starke	1	138			Circuit 13874 - Replace 58 wood poles up to 70 poles if need upon inspection, inspect and replace static wire as needed. First half of a two part project which will complete work begun in 2008.	IN			Planned	\$600,000			Y	C
C	East	NIPS	2321	4247	9/1/2017	Miller	Capacitor		138			Add one step of 100 MVAR capacitors on the Miller Substation 138 kV bus. Engineering only in 2010.	IN			Conceptual	\$974,838			Y	C
C	East	NIPS	2323	4249	12/1/2016	Hiple	Northport	1	138		316	Add new 138 kV terminals at Hiple and Northport Substations, and construct a new 10 mile 954 KCM ACSR 138 kV line between these two substations. Engineering only on 2008.	IN		10	Conceptual	\$5,770,000			Y	C
C	East	NIPS	2324	4251	5/1/2016	East Plymouth - (2) 345kV Line Extensions	Burr Oak and Leesburg	1	345			Split existing Burr Oak to Leesburg 345kV circuit and tie into new East Plymouth substation	IN			Conceptual	\$2,638,409			Y	C
C	East	NIPS	2324	4252	5/1/2016	East Plymouth - (2) 138kV Line Extensions	Plymouth and Leesburg-Kosciusko	1	138			Split existing Plymouth-Leesburg-Kosciusko 138kV circuit and tie into new East Plymouth substation	IN			Conceptual	\$3,519,080			Y	C
C	East	NIPS	2324	4250	5/1/2016	East Plymouth 345/138 kV			345	138		Add East Plymouth 345/138 kV, 1-560 MVA Transformer Sub - New	IN			Conceptual	\$12,726,528			Y	C
C	East	NIPS	2792	4919	12/1/2012	Northwest	circuit reconfiguration		138			Northwest circuit reconfig	IN			Conceptual	\$2,771,000			Y	C
C	East	NIPS	3399	6285	12/1/2010	Goodland	Pine Creek		69	65		Circuit 6964 rebuild	IN	29		Proposed	\$5,567,000			Y	C
C	East	NIPS	3400	6286	12/1/2012	Kreitzburg	Palmira		69	55		Extend 6951 to Palmira Substation	IN			Conceptual	\$123,000			Y	C
C	East	NIPS	3401	6287	12/1/2013	East Winamac	Bruce Lake		69	65		Circuit 6913 Rebuild Reconductor	IN	10		Conceptual	\$2,131,000			Y	C
C	East	NIPS	3402	6288	12/1/2013	Goshen Jct	Third St.		69	65		Circuit 6981 Rebuild Reconductor	IN	26		Conceptual	\$5,563,000			Y	C
C	East	NIPS	3403	6289	12/1/2012	Howe	LaGrange		69	65		Circuit 6987 Rebuild Reconductor	IN	6.3		Conceptual	\$1,363,000			Y	C
C	East	NIPS	3404	6290	12/1/2015	Switch 151	Warsaw		69	60		Circuit 6998, Switch 151 to Warsaw Sub Reconductor Rebuild	IN	1.25		Conceptual	\$461,000			Y	C
C	East	NIPS	3405	6291	12/1/2015	Switch 934	Switch 836		69	60		Circuit 69-107 Reconductor	IN	0.5		Conceptual	\$360,000			Y	C
C	West	ALTW, Non MISO	2198	4065	8/1/2018	Rock Creek	Transformer	1	765	345	2767.5	new transformer	IA			Conceptual	\$15,000,000			Y	C
C	West	ALTW, XEL	2223	4094	8/1/2018	Winnebago	Lakefield	1	345		1000	new line	MN		55	Conceptual	\$59,000,000			Y	C
C	West	ALTW, XEL	2223	4095	8/1/2018	Hayward	Winnebago	1	345		1000	new line	MN		50	Conceptual	\$53,000,000			Y	C
C	West	ALTW, XEL	2223	4127	8/1/2018	Adams	Transformer	2	345	161	336	new transformer	MN			Conceptual	\$10,000,000			Y	C
C	West	ALTW, XEL	2223	4126	8/1/2018	Hayward	Transformer	1	345	161	336	new transformer	MN			Conceptual	\$10,000,000			Y	C
C	West	ALTW, XEL	2223	4125	8/1/2018	Winnebago	Transformer	1	345	161	336	new transformer	MN			Conceptual	\$10,000,000			Y	C

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C	West	ALTW_XEL	2223	4124	8/1/2018	Hayward	Adams	2	345		1000	new line	MN		37	Conceptual	\$40,000,000			Y	C
C	West	ALTW_XEL	2223	4123	8/1/2018	Hayward	Winnebago	2	345		1000	new line	MN		50	Conceptual	\$53,000,000			Y	C
C	West	ALTW_XEL	2223	4122	8/1/2018	Winnebago	Lakefield	2	345		1000	new line	MN		55	Conceptual	\$59,000,000			Y	C
C	West	ALTW_XEL	2223	4096	8/1/2018	Hayward	Adams	1	345		1000	new line	MN		37	Conceptual	\$40,000,000			Y	C
C	West	AmerenIL_ITCM	2773	4866	12/31/2020	Plano	Hazleton	1	765		3975/4570 MV	Build 215 miles of new 765kV from the Hazleton substation in IA to the Plano substation in IL.	IA		215	Conceptual	\$774,000,000			Y	C
C	West	ATC LLC	89	3248	6/1/2050	Mill Rd	Bark River	1	138		287/287	Tap Bark River-Germantown into Mill Rd	WI			Conceptual				Y	C
C	West	ATC LLC	89	3249	6/1/2050	Mill Rd	Germantown	1	138		287/287	Tap Bark River-Germantown into Mill Rd	WI			Conceptual				Y	C
C	West	ATC LLC	89	3250	6/1/2050	Mill Rd	Sussex	1	138		287/314	Tap Sussex-Tamarack into Mill Rd	WI			Conceptual				Y	C
C	West	ATC LLC	89	3251	6/1/2050	Mill Rd	Tamarack	1	138		287/314	Tap Sussex-Tamarack into Mill Rd	WI			Conceptual				Y	C
C	West	ATC LLC	89	3246	6/1/2050	Mill Rd	Cypress	1	345		586/586	Tap Arcadian-Cypress into Mill Rd	WI			Conceptual				Y	C
C	West	ATC LLC	89	103	6/1/2050	Mill Road (renamed, was Lannon Junction)	transformer	1	345	138	500	transformer	WI			Conceptual	\$29,200,000			Y	C
C	West	ATC LLC	89	3247	6/1/2050	Mill Rd	Arcadian	1	345		586/586	Tap Arcadian-Cypress into Mill Rd	WI			Conceptual				Y	C
C	West	ATC LLC	341	483	6/1/2050	Rockdale	Concord (rebuild to dbl ckt 138/345)	1	345		815	rebuild to dbl ckt 138/345	WI	22.6		Conceptual	\$22,200,000			Y	C
C	West	ATC LLC	341	477	6/1/2050	Concord 345/138 kV	transformer	1	345	138	500		WI			Conceptual	\$12,900,000			Y	C
C	West	ATC LLC	341	893	6/1/2050	Concord	Bark River	1	345		815	new line	WI		19	Conceptual	\$50,300,000			Y	C
C	West	ATC LLC	341	895	6/1/2050	Bark River	Mill Road	1	345		815	convert 138 to 345 kV	WI	11		Conceptual	\$800,000			Y	C
C	West	ATC LLC	341	894	6/1/2050	Bark River	transformer	1	345	138	500	transformer	WI			Conceptual	\$8,400,000			Y	C
C	West	ATC LLC	1621	3239	6/1/2020	Birchwood	Lake Delton	1	138		383	Build a new line between Birchwood & Lake Delton	WI	5		Conceptual	\$5,806,000			Y	C
C	West	ATC LLC	1625	3244	12/31/2025	North Randolph	South Fond du Lac	1	345		1096	Tap Columbia-South Fond du Lac into North Randolph	WI		32.3	Conceptual				Y	C
C	West	ATC LLC	1625	3243	12/31/2025	North Randolph	Columbia	1	345		1096	Tap Columbia-South Fond du Lac into North Randolph	WI		22.6	Conceptual				Y	C
C	West	ATC LLC	1625	3242	12/31/2025	North Randolph	Transformer	1	345	138	500	Install a 500 MVA 345/138 kV transformer at the North Randolph 138 kv SS by looping in the Columbia-South Fond du Lac 345-kV line	WI			Conceptual	\$16,552,836			Y	C
C	West	ATC LLC	1689	3468	6/1/2015	Ripon	Capacitor bank		69		1x8.2 MVAR	Install a new 8.2 MVAR capacitor bank at Ripon 69 kV substation	WI			Conceptual				Y	C
C	West	ATC LLC	1689	3467	6/1/2015	Ripon	Capacitor bank		69		1x8.2 MVAR	Upgrade 4.1 MVAR capacitor bank to 8.2 MVAR	WI			Conceptual	\$895,300			Y	C
C	West	ATC LLC	1697	3476	6/1/2020	Brick Church	Walworth	1	69		84 MVA	Uprate Brick Church-Walworth 69 kV line to 115 MVA	WI	2.3		Conceptual	\$716,000			Y	C
C	West	ATC LLC	1700	3480	9/30/2015	SW Ripon	Ripon-Metomen	1	69		56 MVA	Construct a 69 kV line from SW Ripon to the Ripon-Metomen 69 kV line	WI		1.25	Conceptual				Y	C
C	West	ATC LLC	1703	3484	6/1/2019	Boscobel	Capacitor bank		69		8.16 MVAR	Upgrade existing 5.4 MVAR bank at Boscobel substation with an 8.16 MVAR bank	WI			Conceptual				Y	C
C	West	ATC LLC	1703	3483	6/1/2019	Boscobel	Capacitor bank		69		8.16 MVAR	Install one 8.16 MVAR capacitor bank at Boscobel 69 kV substation	WI			Conceptual	\$1,335,173			Y	C
C	West	ATC LLC	1707	3489	6/1/2050	Holmes	Chandler	1	138		290 MVA	Rebuild/convert holmes-Chandler 69 kV line to 138 kV operation	MI/WI	56.3		Conceptual	\$56,300,000			Y	C
C	West	ATC LLC	1708	3490	6/1/2018	Fairwater	Mackford Prairie	1	69		72 MVA	Construct Fairwater-Mackford Prairie 69 kV line	WI		3.5	Conceptual	\$3,200,000			Y	C
C	West	ATC LLC	1708	3491	6/1/2018	Ripon	Metomen	2	69		59 MVA	Reconfigure the North Randolph-Ripon 69-kV line to form a second Ripon-Metomen 69-kV line and retire the circuit between Metomen and the Mackford Prairie tap	WI		3.7	Conceptual	\$5,679,773			Y	C
C	West	ATC LLC	1709	3492	6/1/2019	Eden	Capacitor bank		69		2x16.33 MVAR	Install two 16.33 MVAR 69 kV capacitor banks at Eden Substation	WI			Conceptual	\$1,568,118			Y	C
C	West	ATC LLC	1710	3493	6/1/2020	Mazomanie	Capacitor bank		69		2x12.25 MVAR	Install two 12.25 MVAR 69 kV capacitor banks at Mazomanie substation	WI			Conceptual	\$1,681,113			Y	C
C	West	ATC LLC	1712	3495	6/1/2022	Horicon	East Beaver Dam	1	138		293 MVA	Construct a Horicon-East Beaver Dam 138 kV line	WI		10	Conceptual	\$18,186,000			Y	C