

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 Bkg	Miles New	Plan Status	Estimated Cost	Cost Shared	Postage Stamp	MISO Facility	App ABC
A in MTEP11	West	XEL	3322	6176	6/1/2013	Cedar Falls	Hay River	1	69			Rebuild line of 477 ACSR	WI	7.6		Planned				Y	C>B>A
A in MTEP11	West	XEL	3322	6179	6/1/2013	Wheeler	Ridgeland	1	69			Rebuild line of 477 ACSR	WI	10.2		Planned				Y	C>B>A
A in MTEP11	West	XEL	3322	6180	6/1/2013	Ridgeland	Clear Lake		69			Rebuild line of 477 ACSR	WI	20.4		Planned	\$14,000,000			Y	C>B>A
A in MTEP11	West	XEL	3323	6182	12/1/2012	Park Falls			115			Install new termination on straight bus at Park Falls for radial line	WI			Planned				Y	C>B>A
A in MTEP11	West	XEL	3323	6181	12/1/2012	Flambeau Bio			115	13.8		Install new Customer supply sub	WI			Planned				Y	C>B>A
A in MTEP11	West	XEL	3323	6465	12/1/2012	Park Falls	Osprey	1	115	120		Rebuild 27 miles from 2/0 ACSR to 477 ACSR	WI	27		Planned	\$18,000,000			Y	C>B>A
A in MTEP11	West	XEL	3323	6183	6/1/2013	Park Falls	Flambeau Bio	1	115			Install ~1.5 miles of 336 ACSR 115 kV line	WI			Planned	\$5,769,000			Y	C>B>A
A in MTEP11	West	XEL	3324	6184	12/1/2011	Eau Claire			69			Replace overstressed Eau Claire 69 kV breakers. 4E185, 4E186, 4E187, 4E188, 4E189, 4E190, 4E191, 4E192, 4E193, 4E195.	WI			Planned	\$1,683,000			Y	C>B>A
A in MTEP11	West	XEL	3325	6187	12/1/2012	Orono	Crow River	1	115			Run an in and out to Orono from the Medina - Crow River line	MN		0.5	Planned				Y	C>B>A
A in MTEP11	West	XEL	3325	6186	12/1/2012	Orono	Medina	1	115			Run an in and out to Orono from the Medina - Crow River line	MN		0.5	Planned				Y	C>B>A
A in MTEP11	West	XEL	3325	6185	12/1/2012	Orono			115			Convert sub to 115 kV	MN			Planned	\$5,340,000			Y	C>B>A
A in MTEP11	West	XEL	3326	6188	6/1/2012	Black Dog	Savage	1	115	239		Rebuild line to 795 ACSS	MN			Planned	\$4,564,000			Y	C>B>A
A in MTEP11	West	XEL	3327	6190	12/1/2011	Sterling	Madison Street	1	69	117		Replace .4 miles of 4/0 conductor with 795 ACSR	WI	0.4		Planned				Y	C>B>A
A in MTEP11	West	XEL	3327	6189	12/1/2011	Eau Claire	Sterling	1	69	68		Replace .5 miles of 4/0 conductor with 795 ACSR	WI	0.5		Planned	\$1,600,000			Y	C>B>A
A in MTEP11	West	XEL	3454	6366	6/1/2013	Hollydale		1	115	13.8		Rebuild substation for 115 kV line	MN			Planned	\$4,340,000	N		Y	C>B>A
A in MTEP11	West	XEL	3454	6365	6/1/2013	Hollydale	Pomerleau Lake	1	115	361		Rebuild 69 kV line from Hollydale to new Plymouth area substation	MN	3.4		Planned	\$3,690,000	N		Y	C>B>A
A in MTEP11	West	XEL	3454	6367	6/1/2013	Pomerleau Lake	switching station	1	115			New 115 kV switching station to tie 115 kV line to Medina into the GRE Parkers Lake - Elm Creek line.	MN			Planned	\$7,880,000	N		Y	C>B>A
A in MTEP11	West	XEL	3473	6403	6/1/2014	Sioux Falls (New)			115	13.8		New 115/13.8 kV substation located near the existing Sioux Falls substation	SD			Planned				Y	C>B>A
A in MTEP11	West	XEL	3473	6404	6/1/2014	Lawrence			115	34.5		Rebuild 115 kV yard to breaker and a half to accommodate new 115 kV line	SD			Planned				Y	C>B>A
A in MTEP11	West	XEL	3473	6402	6/1/2014	West Sioux Falls			115	13.8		Add new line termination and breaker	SD			Planned				Y	C>B>A
A in MTEP11	West	XEL	3473	6401	6/1/2014	Sioux Falls (New)	West Sioux Falls	1	115	361		Rebuild line to 115 kV	SD	4.3		Planned				Y	C>B>A
A in MTEP11	West	XEL	3473	6400	6/1/2014	Lawrence	Sioux Falls (New)	1	115	361		Rebuilding line to 115/69 kV double circuit	SD	5.4		Planned	\$35,000,000			Y	C>B>A
A in MTEP11	West	XEL	3474	6405	6/1/2012	Adams			345			Install a 50 MVAR reactor on the Pleasant Valley line, along with breaker and disconnect switch	MN			Planned	\$2,260,000			Y	C>B>A
A in MTEP11	West	XEL	3475	6406	6/1/2014	MPC Prairie	NSP Prairie	7	230	115		230/115 kV 336 MVA transformer and 230 kV line from MPC Prairie to NSP Prairie	ND			Planned	\$12,000,000			Y	C>B>A
A in MTEP11	West	XEL	3476	6408	6/1/2014	Cass Coutny		1	345	115 448		New 345/115 kV transformer and 3 row 115 kV breaker and Half	ND			Planned	\$7,000,000			Y	C>B>A
A in MTEP11	West	XEL	3476	6409	6/1/2014	Maple River	Cass County	1	345	2390		New 4.5 mile 345kV line from Maple River to Cass Coutny substation	ND		4.5	Planned	\$4,436,000			Y	C>B>A
A in MTEP11	West	XEL	3476	6410	6/1/2014	Maple River			345			New 345 kV breakers at Maple River substation to accommodate the proposed 345 kV line	ND			Planned	\$1,790,000			Y	C>B>A
A in MTEP11	West	XEL	3509	6480	1/1/2013	Iron River	Ownership change near Lakeside	1	115	230		Rebuild 5 miles of 115 kV from 336 ACSR to 795 ACSR	WI	5		Planned	\$2,400,000			Y	C>B>A
A in MTEP11	West	XEL	3509	6479	1/1/2013	Ino Pump	Iron River	1	115	230		Rebuild 9 miles of 115 kV from 336 ACSR to 795 ACSR	WI	9		Planned	\$4,200,000			Y	C>B>A
A in MTEP11	West	XEL	3509	6478	1/1/2013	Bayfront	Ino Pump	1	115	230		Rebuild 19 miles of 115 kV from 336 ACSR to 795 ACSR	WI	19		Planned	\$8,800,000			Y	C>B>A
A in MTEP11	West	XEL, GRE	3454	6364	6/1/2013	Medina	Hollydale	1	115	361		Rebuild 4.6 Miles of 69 kV line to 795 ACSS 115 kV	MN	4.6		Planned	\$7,380,000	N		Y	C>B>A
A in MTEP11		AmerenIL	3022	6554	6/1/2019	Galesburg	345/138 kV transformer	1	345	138 560 MVA		new				Planned		Y	Y	Y	B>A

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A in MTEP03	Central	SIPC	81	60	9/1/2012	Power Plant	Carrier Mills 161kV		161			25-mile 161kV transmission line from Southern Illinois Power Cooperative's power plant to a new 161/69kV substation	IL		25	Planned	\$9,200,000			Y	A
A in MTEP09	Central	Ameren	1240	1940	6/1/2012	Sioux	Huster	3	138	370		Reconductor 13 miles	MO	13		Planned	\$5,550,000	Y		Y	A
A in MTEP09	Central	Ameren	1240	1939	6/1/2012	Sioux	Huster	1	138	370		Reconductor 15 miles	MO	15		Planned	\$5,550,000	Y		Y	A
A in MTEP08	Central	Ameren	1235	1934	6/1/2016	Fredericktown	AECI Fredericktown Tap	1	161	250		Increase ground clearance	MO	12		Planned	\$1,200,000			Y	A
A in MTEP08	Central	Ameren	1238	1937	11/17/2011	GM 161 kV Sub.	AECI Enon Substation	1	161	280		Extend 1 mile of line to AECI Enon Substation	MO		1	Planned	\$1,896,500			Y	A
A in MTEP07	Central	Ameren	152	399	11/30/2011	Big River	Rockwood	1	138	339		new line	MO		10	Planned	\$13,381,100	Y		Y	A
A in MTEP10	Central	AmerenIL	1528	2604	6/1/2012	Rising	Transformer	1	345	138 560		Replace existing transformer with a 560 MVA	IL			Planned	\$5,000,000			Y	A
A in MTEP10	Central	AmerenIL	1535	2612	6/1/2012	Wood River	Stallings	1	138	259		Replace terminal equipment at Stallings, reconductor section of line (Line # 1456)	IL	6		Planned	\$2,036,000			Y	A
A in MTEP10	Central	AmerenIL	2064	3973	6/1/2012	South Bloomington	Diamond Star Tap	1	138	382		Reconductor 3.33 miles of 336 ACSR in S Bloomington - Danvers line to 1600 Amps	IL	3.33		Planned	\$2,113,000			Y	A
A in MTEP10	Central	AmerenIL	2288	4204	6/1/2012	Line 1364 (new tap)	Washington Street Substation	2	138			Tap 138 kV Line 1364 for 'in-out' arrangement, replace Line 1326 w/ 'in-out'	IL		0.17	Planned	\$4,155,000			Y	A
A in MTEP10	Central	AmerenIL	2957	5155	12/31/2012	Edwards Plant	Tazewell	2	138	322		Edwards-Tazewell 138 kV Line 1373 - Reconductor 1.57 miles of 795 kcmil ACSR conductor and 7.5 miles of 927 kcmil ACAR conductor with conductor capable of carrying 1600 A under summer emergency conditions. Replace a 1200 A wavetrap and CT's at Edwards.	IL	9.07		Planned	\$121,000			Y	A
A in MTEP10	Central	AmerenIL	2986	5190	6/1/2014	Wood River-Stallings-1456	Tap to Supply North Alton 138-34.5 kV Sub	1	138	240		North Alton 138-34.5 kV Substation Supply - Supply new 138-34.5 kV Substation from an in-out connection to the Wood River-Stallings-1456 138 kV line. Approximately 4 miles of double-circuit 138 kV line needed.	IL		4	Planned	\$6,445,500			Y	A
A in MTEP10	Central	AmerenIL	2986	5189	12/1/2015	Wood River-North Staunton-1436	Tap to Supply North Alton 138-34.5 kV Sub	1	138	240		North Alton 138-34.5 kV Substation Supply - Supply new 138-34.5 kV Substation from an in-out connection to the Wood River-Stallings-1456 138 kV line. Approximately 4 miles of double-circuit 138 kV line needed.	IL		4	Planned	\$6,445,500			Y	A
A in MTEP10	Central	AmerenIL	2992	5197	6/1/2014	Bondville	S.W. Campus	1	138	411		Bondville-S.W. Campus 138 kV - Construct 8 miles of new 138 kV line. Construct 138 kV Ring Bus at Bondville (2 new PCB's) and a 138 kV Ring Bus at Champaign S.W. Campus (4 new PCB's).	IL		8	Planned	\$10,000,000			Y	A
A in MTEP09	Central	AmerenIL	2273	4187	6/1/2013	LaFarge	161 kV Supply to Customer Substation		161			Provide 161 kV supply to customer substation	IL			Planned	\$570,000			Y	A
A in MTEP09	Central	AmerenIL	2279	4195	10/5/2011	Campbell	Steelville	1	138	220		Reconductor 477 kcmil ACSR to carry 1200 A summer emergency	IL	6.19		Planned	\$1,866,000			Y	A
A in MTEP09	Central	AmerenIL	2472	4446	12/1/2016	Maple Ridge 345 kV Switching Station	New Substation		345			Install switching station in Duck Creek-Tazewell 345 kV line	IL			Planned	\$6,523,000	Y	Y	Y	A
A in MTEP09	Central	AmerenIL	2472	4444	12/1/2016	Fargo 345/138 kV	New Substation		345	138 560		Install 560 MVA, 345/138 kV Transformer	IL			Planned	\$9,370,000	Y		Y	A
A in MTEP09	Central	AmerenIL	2472	4445	12/1/2016	Fargo	Maple Ridge	1	345	1793		Install approximately 20 miles of new line to supply Fargo Substation	IL		20	Planned	\$62,275,000	Y	Y	Y	A
A in MTEP08	Central	AmerenIL	1529	2605	12/22/2011	Brokaw	State Farm Line 1596	1	138	337		Reconductor to 2000 A Summer Emergency	IL	3.2		Planned	\$2,566,900			Y	A
A in MTEP08	Central	AmerenIL	2060	3958	6/1/2012	East Peoria	Flint	1	138	233		Reconductor to 1200 A capability	IL	4.54		Planned	\$2,113,000			Y	A
A in MTEP08	Central	AmerenIL	2068	3964	12/1/2014	Latham	Oreana	1	345	1195		Build 8.5 miles of 345 kV line and remove the Latham - Maroa W connection	IL	8.5		Planned	\$35,077,000	Y	Y	Y	A
A in MTEP08	Central	AmerenIL	2069	3962	12/1/2014	Brokaw	South Bloomington	1	345	1793		Build approximately 5 miles of 345 kV line from Brokaw - South Bloomington substation	IL	5		Planned	\$13,429,000	Y	Y	Y	A
A in MTEP08	Central	AmerenIL	2069	3963	12/1/2014	South Bloomington	South Bloomington XFMR	1	345	138 560		Install 560 MVA 345/138 kV transformer at South Bloomington substation	IL			Planned	\$6,600,000	Y		Y	A
A in MTEP06	Central	AmerenIL	739	1432	11/1/2012	Line 4561 Tap	Franklin County Power Plant	1	345			345 kV connection (new ring bus) to new generation	IL			Planned	\$6,410,900			Y	A

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A in MTEP05	Central	AmerenIL	725	1418	4/26/2012	N. LaSalle	Wedron Fox River	1	138		266	2 CB at N LaSalle, 1 CB at Wedron Fox River Substation	IL		25	Planned	\$21,357,530			Y	A
A in MTEP05	Central	AmerenIL	726	1419	7/30/2013	Ottawa	Wedron Fox River	1	138		266	1 CB at Ottawa, new 138 kV line to Wedron Fox River Substation	IL		8	Planned	\$8,962,967			Y	A
A in MTEP10	Central	AmerenMO	2972	5172	6/1/2012	Bailey	Joachim	1	138		411	Sandy Creek-Joachim-1 138 kV Line - Reconductor 6.2 miles of 795 kcmil ACSR with conductor having 1600 A summer emergency capability between Sandy Creek and Bailey Substations	MO	0.5		Planned	\$246,700			Y	A
A in MTEP10	Central	AmerenMO	2972	5173	6/1/2012	Bailey	Sandy Creek	1	138		322	Sandy Creek-Joachim-1 138 kV Line - Reconductor 6.2 miles of 795 kcmil ACSR with conductor having 1600 A summer emergency capability between Sandy Creek and Bailey Substations	MO	6.2		Planned	\$3,059,000			Y	A
A in MTEP10	Central	AmerenMO	2976	5177	12/1/2012	Cahokia-Central-1	Relocate Central 138-34.5 kV Substation	1	138		370	Central 138-34.5 kV Substation - Relocate Substation - Reterminate Cahokia-Central-1 138 kV line to the new Central Substation. New substation will be located roughly one-half mile from existing substation.	MO			Planned	\$1,544,300			Y	A
A in MTEP10	Central	AmerenMO	2976	5178	12/1/2012	Cahokia-Central-2	Relocate Central 138-34.5 kV Substation	2	138		370	Central 138-34.5 kV Substation - Relocate Substation - Reterminate Cahokia-Central-2 to the new Central Substation. New substation will be located roughly one-half mile from existing substation.	MO			Planned	\$1,544,300			Y	A
A in MTEP10	Central	AmerenMO	2976	5179	12/1/2012	Central-Watson-1	Relocate Central 138-34.5 kV Substation	1	138		367	Central 138-34.5 kV Substation - Relocate Substation - Reterminate Central-Watson-1 138 kV line to the new Central Substation. New substation will be located roughly one-half mile from existing substation.	MO			Planned	\$1,544,300			Y	A
A in MTEP10	Central	AmerenMO	3107	5444	6/17/2011	Arnold	Tyson	3	138		241	Install 4-138 kV Breakers at Arnold Substation and rearrange 138 kV bus configuration at Arnold Substation.	MO			Planned	\$570,800			Y	A
A in MTEP10	Central	AmerenMO	3107	5447	6/17/2011	Arnold	Meramec	4	138		241	Install 4-138 kV Breakers at Arnold Substation and rearrange 138 kV bus configuration at Arnold Substation.	MO			Planned	\$570,800			Y	A
A in MTEP10	Central	AmerenMO	3107	5446	6/17/2011	Arnold	Tyson	4	138		241	Install 4-138 kV Breakers at Arnold Substation and rearrange 138 kV bus configuration at Arnold Substation.	MO			Planned	\$570,800			Y	A
A in MTEP10	Central	AmerenMO	3107	5445	6/17/2011	Arnold	Meramec	3	138		240	Install 4-138 kV Breakers at Arnold Substation and rearrange 138 kV bus configuration at Arnold Substation.	MO			Planned	\$570,800			Y	A
A in MTEP10	Central	DEM	1520	2596	6/1/2017	Durbin	230/69 substation	1	230	69		Build a new 230 69kv 150mva sub with 2 69kv line terminals	IN			Planned	\$7,000,000			Y	A
A in MTEP10	Central	DEM	1903	3800	6/1/2014	Fishers North	Fishers 69	1	69		245	Reconductor 1.05 miles 69kV line from Fishers No to Fishers with 954ACSR@100C conductor	IN	1.05		Planned	\$455,229			NT	A
A in MTEP10	Central	DEM	2050	5033	12/31/2011	Dresser	Trans Sub		345	138		Reconfigure Dresser substation bus and breakers, etc. for final Bank 3 configuration.	IN			Under Construction	\$2,980,000	Y		Y	A
A in MTEP10	Central	DEM	2123	2908	6/1/2012	Bloomington 230	Martinsville SE Jct	1	69		153	Bloomington to Martinsville 69kV - 6903 ckt. - Rebuild 9.2 miles of 336ACSR with 954ACSR@100C	IN	9.2		Planned	\$2,020,000			NT	A
A in MTEP10	Central	DEM	2134	2919	6/30/2013	Bloomington 230	Needmore Jct.	1	69		143	Bloomington 230kV Sub to Needmore Jct (Pole #825-3379) reconductor 6949 line with 954ACSR 100C conductor and replace (2) Needmore Jct. 69kV - 600 amp switches with 1200 amp switches. Old PIN 804J3052	IN	10.85		Planned	\$2,712,500			NT	A

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A in MTEP10	Central	DEM	2136	2921	6/30/2012	Greenwood HE Honey Creek Jct	Frances Creek Jct	1	69		100	Greenwood HE Honey Creek Jct to Frances Creek Jct uprate 69kV - 69102 line 1.12 mile for 100C	IN	1.12		Planned	\$63,533			NT	A
A in MTEP10	Central	DEM	2137	2922	6/30/2012	Greenwood Averitt Rd Jct	HE Honey Creek Jct	1	69		100	Greenwood Averitt Rd Jct to HE Honey Creek Jct 69 kV - 69102 Uprate 1.05 mile line section of 477acsr for 100C conductor temperature operation	IN	1.05		Planned	\$53,461			NT	A
A in MTEP10	Central	DEM	2143	2929	6/1/2014	Frances Creek	bank 2	2	345	69/200		Add Frances Creek 345/69kV Bank 2 - 200MVA with LTC	IN			Planned	\$6,887,000			NT	A
A in MTEP10	Central	DEM	2858	5011	6/1/2017	Geist	Fortville	1	69		153	Reconductor 69kV 3.62 mile line from Geist sub to Fortville sub with 954ACSR conductor.	IN	3.62		Planned	\$1,820,000			NT	A
A in MTEP10	Central	DEM	2859	5012	6/1/2012	Peru Muni Jct	Wabash Jct	1	69		100	Peru Muni J to Wabash J 6986 Reconductor approx., 10.3 miles of 4/0 ACSR with 477 ACSR	IN	10.3		Planned	\$3,810,000			NT	A
A in MTEP10	Central	DEM	2860	5013	6/1/2012	Brazil East	Reelsville Jct	1	69		100	Reconductor 6938 line from Brazil East to Reelsville Jct. with 477ACSR 100C conductor. Replace Reelsville Jct switches with 1200 amp switches.	IN	6.58		Planned	\$2,550,000			NT	A
A in MTEP10	Central	DEM	2861	5014	6/1/2012	Greencastle Madison J	Greencastle Ind Pk	1	69		143	Reconductor 6996 line from Greencastle Madison Jct. to Greencastle East Jct. to Greencastle Ind. Pk. with 954ACSR 100C conductor. Replace or upgrade 2-600 amp Greencastle East Jct switches to 1200amp.	IN	5.83		Planned	\$1,482,000			NT	A
A in MTEP10	Central	DEM	2863	5016	6/2/2012	Carmel SE	new Jct in 69145 ckt.	1	69		143	Build new 69kV-954ACSR circuit from Carmel SE to new Jct in the 69145 line on Cumberland Rd, completing a loop from Carmel 146th St to Geist. also, (AMIN0057) Carmel SE Bank 2 69kV 22.4MVA; retire the 138-12kV existing bank fed from IPL (NERC tie)	IN		5.5	Planned	\$4,274,200			NT	A
A in MTEP10	Central	DEM	2865	5018	6/1/2012	Frankfort Burlington St	Middlefork	1	69		53	Frankfort Bringtn St to Midfrk - 69133 ckt - uprate 11.5 miles of 4/0ACSR to 100C and reconductor 1.0 mile of 2/0CUB7 to 954ACSR@100C	IN	12.5		Planned	\$582,035			NT	A
A in MTEP10	Central	DEM	2869	5022	6/1/2012	Zimmer 345kV sub	Trans Sub		345			Replace 345kV gas insulated sub with an air insulated sub	OH			Under Construction	\$4,032,000			Y	A
A in MTEP10	Central	DEM	2871	5024	12/31/2011	EKPC Hebron	138/69 substation	1	138	69		Add new EKPC Hebron 138/69kV transformer (outside DEM area 208). Includes 3 position - 138kV CB ring bus and associated Duke owned facilities (inside DEM area 208). 138kv Tie from DEM to EKPC is being revised slightly. 100% to be paid for by EKPC.	KY			Planned	\$3,345,000			Y	A
A in MTEP10	Central	DEM	2872	5025	12/31/2011	Manhattan	new dist sub	1	138	12		Install 1200A - 138kv line switching on both sides of proposed tap line to new joint use DEM/WVPA Manhattan distribution sub in the 13802 ckt.	IN			Planned	\$525,723			Y	A
A in MTEP10	Central	DEM	2874	5027	12/1/2011	Noblesville Gen. Station	Geist	1	230	319		Relocate section of 23007 between Noblesville and Geist to new RoW around expanding mine operation - approx. 0.6 mile of added line length	IN		0.6	Planned	\$1,766,218			Y	A
A in MTEP10	Central	DEM	2875	5028	12/31/2011	Edwardsville	new dist sub	1	138	12		Construct new Edwardsville 138/12kV distribution substation - single 22.4 MVA transformer	IN			Planned	\$467,387			NT	A
A in MTEP10	Central	DEM	2876	5029	6/1/2013	Red Bank	Trans Sub		345			Replace 345kV gas insulated bus with an air insulated bus	OH			Planned	\$3,467,832			Y	A

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A in MTEP10	Central	DEM	2877	5030	12/31/2015	West End	Trans Sub		138	13.2		Modifications to West End Substation facilities, 138 kV transmission lines and distribution lines to accommodate Brent Spence Bridge project	OH			Planned	\$13,780,000			Y	A
A in MTEP10	Central	DEM	2878	5031	6/1/2014	Miami Fort	Trans Sub		345			Replace 345kV gas insulated bus with an air insulated bus and Miami Fort-Tanner Cir 4504 Relocate	OH			Planned	\$1,440,000			Y	A
A in MTEP10	Central	DEM	2879	5032	12/31/2012	Brazil West	new dist sub	1	69	12		Construct Brazil West 10.5MVA 69/12kV sub in the 6902 Line to be located on 900N east of 425W	IN			Planned	\$150,000			NT	A
A in MTEP10	Central	DEM	2882	5035	12/31/2012	Lateral	138kV Bus 7 to Bus 8 tie		138	478		Replace bus tie breaker #840 and associated disconnect sw's - new limits will be CB - 3000A and D/S's - 2000A.	OH			Planned	\$445,302			Y	A
A in MTEP09	Central	DEM	1647	3378	6/1/2012	Carmel SE	69/12 substation		69	12	245	Construct Carmel SE Bank 1 22.4MVA bank with 2 exits - extend a new radial 69kv - 954ACSS@200C from Carmel 146th St (no new bkr - share dist bk terminal)	IN		4	Planned	\$2,000,000			NT	A
A in MTEP09	Central	DEM	1880	3774	12/31/2012	Columbia	distribution sub		138	12		Columbia 138kV-22.4MVA Sub - New site or purchase and rebuild existing Siemens Sub #537- in F5484 between Warren and Maineville	OH			Planned	\$215,000			Y	A
A in MTEP09	Central	DEM	2127	2912	6/1/2019	Martinsville 69	69163-1 switch		69	143		69163-1 switch replacement near tap to HE Cope with 1200A switch	IN			Planned	\$40,000			NT	A
A in MTEP09	Central	DEM	2132	2917	6/30/2012	Frances Creek	capacitor		69	36	MVAR	Frances Creek Install 36MVAR 69kV capacitor bank	IN			Planned	\$615,500			NT	A
A in MTEP09	Central	DEM	2133	2918	6/1/2012	Franklin 230	Franklin Forsythe	2	69	143		Franklin 230 sub to Forsythe 69 sub - Build new 3.5 mile 69kV - 69159 line; new line terminal at Forsythe; use existing terminal at Franklin 230	IN		3.5	Planned	\$1,030,000			NT	A
A in MTEP09	Central	DEM	2148	2935	5/1/2012	Cadiz	Milner's Corner Jct	1	69	143		Cadiz-Markleville-Milner's Corner J - Reconductor 69kv - 69131 ckt - 9.24 mile section with 477ACSR@100C; Replace 69kv three way switch at Milner's Corner Jct with three one way 1200A switches; Upgrade the Markleville 600A switches #1 and #2 to 1200A	IN	9.24		Planned	\$3,208,251			NT	A
A in MTEP09	Central	DEM	2149	2936	12/31/2011	West End	bus tie bkr & line bkr	1	138	478		West End substation - Install a 138kV circuit breaker to tie the east and west 138 kV busses together and a line breaker in the 1389 ckt	OH			Under Construction	\$1,040,000			Y	A
A in MTEP09	Central	DEM	2153	2941	6/1/2017	Mohawk	Lee Hanna	1	69	71.7		Mohawk to Lee Hanna 69kV reconductor 69130 ckt (5.27 mi) with 954acsr@100C	IN	5.27		Planned	\$2,317,000			NT	A
A in MTEP09	Central	DEM	2154	2942	12/31/2013	Carmel Rohrer Rd.	distribution sub		69	12		Carmel Rohrer Rd 69/12-22.4MVA sub to looped through the 6989 ckt. at or near the existing Carmel Shell Oil tap	IN	0.4	0.4	Planned	\$591,143			NT	A
A in MTEP09	Central	DEM	2327	4259	6/1/2013	Speed	HE Bethany	1	69	53		Speed to HE Bethany 69kV - 6955 Reconductor Ph1 - Replace 5.2 miles of 3/0 ACSR with 477 ACSR (new limiter 4/0acsr @ 80C)	IN	5.2		Planned	\$1,560,000			NT	A
A in MTEP09	Central	DEM	2331	4263	6/1/2012	Shelbyville NE	Knauf	1	69	153		Shelbyville NE to Knauf Reconductor 1.75 miles of 397ACSR on 6946 ckt. with 954acsr@100C	IN	1.75		Planned	\$777,000			NT	A
A in MTEP09	Central	DEM	2332	4264	6/1/2012	Zionsville Turkeyfoot	Zionsville 96th St Jct	1	69	153		Zionsville Turkeyfoot to Zionsville 96th St Jct Reconductor 1.59 mile 69kV - 69155 ckt with 954ACSR@100C	IN	1.59		Planned	\$704,000			NT	A

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A in MTEP09	Central	DEM	2334	4266	6/1/2012	Fishers 106th St	distribution sub		69	12		New Fishers 106th St 69/12 kv sub: Construct 69kv line in and out of sub and 69kv bus; located in the proposed loop between Carmel SE 69 sub and Fishers 69145	IN			Planned	\$174,000			NT	A
A in MTEP08	Central	DEM	834	3071	6/1/2014	Kingman	Capacitor		69		7.2 MVAR	Add capacitor	IN			Planned	\$500,000			NT	A
A in MTEP08	Central	DEM	835	3072	6/1/2013	Pittsboro	Capacitor		69		14.4 MVAR	Add capacitor	IN			Planned	\$422,362			NT	A
A in MTEP08	Central	DEM	841	820	6/1/2015	Westwood Bk1	transformer	1	345	138	369.4	Replace 1600A 138kv breaker with 3000A to allow full xfr rating.	IN			Planned	\$141,623			Y	A
A in MTEP08	Central	DEM	1245	1959	6/1/2014	Potato Creek Switching Station			69			Construct 69kv switching station	IN			Planned	\$1,007,000			NT	A
A in MTEP08	Central	DEM	1245	1958	6/1/2014	Frankfort Jefferson	Potato Creek		69	153		69178 Build 2.7 miles of 954 ACSR 69kv	IN		2.7	Planned	\$1,087,115			NT	A
A in MTEP08	Central	DEM	1501	2574	6/1/2014	Carmel 146th St	Capacitor 2		69		36 MVAR	Install a 2nd 69kv 36MVAR cap bank	IN			Planned	\$624,145			NT	A
A in MTEP08	Central	DEM	1512	4270	6/1/2012	Ridgeway	Ashland	1	138		282	Install underground 138 kv circuit from Ridgeway to Ashland - expand Ashland sub to complete 138kv ring bus. Build new Ridgeway sub - 138kv-13.1kv	OH		1.31	Planned	\$1,000,000			Y	A
A in MTEP08	Central	DEM	1512	2588	12/31/2012	Rochelle	Ridgeway	1	138	13.1	282	Install underground 138 kv circuit from Rochelle - Ridgeway - expand Rochelle sub to complete 138kv ring bus.	OH		1.04	Planned	\$7,802,000			Y	A
A in MTEP08	Central	DEM	1512	2939	12/31/2012	Red Bank	Ashland	1	138			Install 3.8 ohm-1410Amp-138kv reactors in Feeder 7484 at Oakley sub (line runs through Oakley with no connections to other ckts - transitions to UG here)	OH			Planned	\$832,051			Y	A
A in MTEP08	Central	DEM	1513	2589	7/15/2011	Metea	Capacitor		69		14.4 MVAR	Install 14.4MVAR 69kv unit	IN			Under Construction	\$865,946			NT	A
A in MTEP08	Central	DEM	1514	3776	12/31/2011	Wabash River Station	Burnett Jct	1	138			Reconductor the 6-wire 13847 477ACSR underbuild from 976-1005 to 976-1035 (34,000 ft), with 3-wire 954ACSSTW conductor to allow uprating of 23002 line overbuild. Wab Riv to Spelerville to Burnett Jct.	IN	6.44		Under Construction	\$1,286,147			Y	A
A in MTEP08	Central	DEM	1514	2590	12/31/2011	Wabash River Station	Staunton		230		478	Uprate Wabash River to Staunton 23002 to 100C summer operating temperature and 80C winter (559MVA). 478mva/1200A equipment limited - also, have to modify the 13847 underbuild from 6-wired to 954 3-wire	IN	18.03		Under Construction	\$0			Y	A
A in MTEP08	Central	DEM	1519	2595	12/31/2012	Noblesville NE	Geist		69			Build a new 69kv line from Noblesville NE sub to tap the Fishers North - Geist 69kv line	IN			Planned	\$2,640,107			NT	A
A in MTEP08	Central	DEM	1560	3111	7/15/2011	Edwardsport	capacitor		138		57.6 MVAR	Install a 138kv 57.6MVAR capacitor at Edwardsport.	IN			Under Construction	\$709,293			Y	A
A in MTEP08	Central	DEM	1561	3112	6/1/2012	Kokomo Webster St (terminal equipment)	New London	1	230		797	Retire existing 1600A circuit switcher and complete the Webster St ring in order to utilize the full capacity of the bundled 477 ACSS wire on the 23016 line.	IN			Planned	\$399,580			Y	A
A in MTEP08	Central	DEM	1564	3116	12/31/2011	Roseburg Switching Station	Capacitor		69		21.6 MVAR	Install 69kv 21.6MVAR std capacitor	IN			Planned	\$518,503			NT	A
A in MTEP08	Central	DEM	1568	3120	6/1/2013	Qualitech	transformer	1	345	138	300	Qualitech Sub- Install one 345/138kv, 300Mva Xtr and 2-345kv Bkrs and 1-138kv Bkr to provide second 138kv source to proposed Hendricks Co 138kv system	IN			Planned	\$4,561,674			Y	A
A in MTEP08	Central	DEM	1569	3121	6/2/2013	Qualitech	Pittsboro Jct	1	138		306	Construct new 138kv line, Qualitech to Pittsboro Jct, and connect to the Pittsboro-Brownsbg line to provide new 954ACSR outlet line from Qualitech 345/138kv Bank	IN		3.3	Planned	\$1,507,856			Y	A

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A in MTEP08	Central	DEM	1570	3122	6/3/2013	Plainfield South	Pittsboro Jct	1	138		306	Convert the existing 69KV (69144) line from Plainfield S. to Pittsboro Jct (and 4 distribution subs) over to 138KV operation and connect to the new Qualitech to Pittsboro 138KV line	IN	17.6		Planned	\$4,139,000			Y	A
A in MTEP08	Central	DEM	1650	3381	6/30/2014	Fairview	HE Fairview	1	138		306	Fairview to HE Fairview 13854 Reconductor with 954ACSR @ 100C	IN	3.3		Planned	\$1,236,384			Y	A
A in MTEP08	Central	DEM	1881	3775	12/31/2011	Bloomington Rogers St	Whitehall Pike	1	138		201	Bloomington Rogers St - replace 13836 breaker and WT; replace 13871 breaker, WT, and disc sw's - All 2000Amp rated; Replace relays for 13836, 13837, 13871	IN			Planned	\$1,051,992			Y	A
A in MTEP08	Central	DEM	1889	3785	6/23/2011	Danville	Danville Jct	1	69		153	Danville to Preswick Jct to Danville Jct - recon. 5.2 mi of the 6945 ckt. with 954acsr OVAL @100C and replace the 600 amp, two way switches at Danville Jct with two 1200 amp one way switches and replace the 600 amp switch at Prestwick Jct with a 1200 amp	IN	5.2		Under Construction	\$1,622,359			NT	A
A in MTEP08	Central	DEM	1890	3786	8/16/2011	Geist	69181 Fishers N. Jct (new)	1	69		153	Build new 69KV line - 69181 - 4 miles with 954ACSR along 126th St. (completes approx 5.9 mile line section)	IN		4	Under Construction	\$1,977,421			NT	A
A in MTEP08	Central	DEM	1893	3789	6/1/2013	Mitchell Lehigh Portland	Bedford 25th St	1	69		100	Reconductor 10.3 miles of 69kv - 6995 line with 477 ACSR	IN	10.3		Planned	\$3,016,000			NT	A
A in MTEP08	Central	DEM	1895	3791	6/4/2013	Brownsburg	Avon East	1	138		306	Brownsburg to Avon East 138kv Reconductor 2.9 miles of 138kv line with 954 ACSR - AFTER 138KV CONVERSION	IN	2.9		Planned	\$1,433,227			Y	A
A in MTEP08	Central	DEM	1896	3792	6/1/2012	Connersville 138 sub	Connersville 30th St	1	69		53	Uprate to 100C 4/0 acsr sections - 1.2 miles 6981 ckt	IN	1.2		Planned	\$16,493			NT	A
A in MTEP08	Central	DEM	1897	3793	6/1/2012	Deedsville	Macy	1	69		100	Reconductor Deedsville to Macy section of 6957 circuit with 477ACSR approx 2.5 miles; and replace Macy #1 and #2 - 600A line switches (1955 vintage) with 1200A	IN	2.5		Planned	\$921,919			NT	A
A in MTEP08	Central	DEM	1899	3795	12/31/2013	Macy	Rochester Metals Jct	1	69		100	Reconductor Macy to Rochester Metals Jct section of 6957 circuit with 477ACSR - approx 9.1 miles	IN	9.1		Planned	\$3,102,711			NT	A
A in MTEP08	Central	DEM	1901	3797	6/1/2013	Noblesville Gen Sta	Noblesville Jct	1	69		245	Reconductor 69kv - 6984 & 6916 ckt. Noblesville Plant to Noblesville 8th St. to Noblesville Jct with 954ACSS @ 200C (5.47 miles)	IN	5.47		Planned	\$1,510,946			NT	A
A in MTEP08	Central	DEM	1902	3799	6/1/2012	Zionsville	Zionsville 96th St	1	69		153	Reconductor .32 miles of the 69kv - 69155 line from Zionsville 69 sub to Zionsville 96th Jct with 954ACSR conductor; replace/upgrade 69kv switches, jumpers and bus at Zionsville 69 sub for a min. capacity of 152MVA (502G6709)	IN	0.32		Planned	\$309,475			NT	A
A in MTEP07	Central	DEM	852	2995	6/1/2013	Linden Ethanol Jct	Tipmont Concord Jct		138		306	13819 reconductor with 954ACSR 100C	IN	7.15		Planned	\$3,567,892	Y		Y	A
A in MTEP07	Central	DEM	852	1979	6/1/2013	Crawfordsville	Linden Ethanol Jct		138		306	13819 reconductor with 954ACSR 100C	IN	10.28		Planned	\$5,351,838	Y		Y	A
A in MTEP06	Central	DEM	851	826	6/1/2013	Lafayette Cumberland Ave	Laf AE Staley	1	138		306	13806 reconductor with 954ACSR 100C 604F6347	IN	1.3		Planned	\$349,357			Y	A
A in MTEP06	Central	DEM	853	828	6/1/2015	West Lafayette	Cumberland Ave	1	138		306	13806 reconductor with 954ACSR 100C 604F6352	IN	2		Planned	\$706,921			Y	A
A in MTEP06	Central	DEM	1244	1946	6/1/2013	Frankfort 23013 Wave Trap	Cayuga		230		797	Replace 1600A wave trap with a 2000A wave trap. Increase line rating of the Cayuga to Frankfort 23013 line.	IN			Planned	\$98,827			Y	A
A in MTEP06	Central	DEM	1244	1945	6/1/2013	Cayuga 23013 Wave Trap	Frankfort		230		797	Replace 1600A wave trap with a 2000A wave trap. Increase line rating of the Cayuga to Frankfort 23013 line.	IN			Planned	\$68,733			Y	A
A in MTEP10	Central	HE	3080	5360	6/1/2011	HE Rocklane	DEI	1	69		72MVA	New Construction	IN		3	Planned	\$3,000,000			Y	A
A in MTEP08	Central	HE	1927	3806	9/1/2010	Hubbell Primary		1	138		2000 AMP	Rebuild	IN			Planned	\$3,000,000			Y	A
A in MTEP08	Central	HE	1928	3807	9/1/2011	Fairview Primary		1	138		2000 AMP	Rebuild	IN			Planned	\$1,500,000			Y	A

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A in MTEP08	Central	HE	1929	3808	9/1/2012	Georgetown Primary		1	138		2000 AMP	Rebuild	IN			Planned	\$1,250,000			Y	A
A in MTEP08	Central	HE	2082	3978	9/1/2009	Shelbyville Intel Park Tapline	Shelbyville Intel Park	1	138			New Construction	IN		1	Planned	\$250,000			Y	A
A in MTEP08	Central	HE	2082	3979	9/1/2009	Shelbyville Intel Park		1	138	12.5	2000 AMP	New Construction	IN			Planned	\$750,000			Y	A
A in MTEP08	Central	HE	2083	3981	9/1/2009	Wayne County Indust Park		1	69	12.5	2000 AMP	New Construction	IN			Planned	\$500,000			NT	A
A in MTEP08	Central	HE	2083	3980	9/1/2009	Wayne County Indust Park Tap	Wayne County Indust Park	1	69			New Construction	IN		1	Planned	\$250,000			NT	A
A in MTEP10	Central	IPL	2900	5073	6/1/2011	Northwest	Southwest	1	138		382	Increase line rating from 242 to 382 MVA	IN	4.75		Planned	\$1,500,000			Y	A
A in MTEP09	Central	IPL	2053	5341	6/1/2012	Petersburg	138 kV breakers			138		6 138 kV Breakers and disconnect switches	IN			Planned	\$2,000,000	N		Y	A
A in MTEP09	Central	IPL	2053	3940	6/1/2012	Petersburg	West Autotransformer	W	345	138		Replace autotransformer and 345 kV breaker	IN			Planned	\$6,700,000	Y		Y	A
A in MTEP09	Central	IPL	2053	3939	6/1/2012	Petersburg	East Autotransformer	E	345	138		Replace autotransformer and 345 kV breaker	IN			Planned	\$6,700,000	Y		Y	A
A in MTEP08	Central	IPL	1639	3301	6/1/2013	Various Locations	capacitors					Add capacitors to IPL General Distribution System	IN			Planned	\$50,000			NT	A
A in MTEP08	Central	SIPC	1778	2871	7/1/2008	Hamilton (SIPC)	Norris (Ameren)			138		Construct a 138KV line connecting SIPC Hamilton Substation to Ameren Norris City Substation. This project includes the construction of 18 miles of 138KV line.	IL			Planned	\$5,000,000			Y	A
A in MTEP03	Central	SIPC	81	5339	9/1/2012	Carrier Mills	161/69 kV transformer		161	69		New 161/69kV substation located north of Carrier Mills, IL	IL			Planned	\$1,000,000			Y	A
A in MTEP09	Central	Vectren	2461	4425	6/1/2014	Dubois Sub Z84 terminals		84	138			Add 1 new 138kV terminal to existing sub to avoid 3 term line	IN			Planned	\$1,000,000			Y	A
A in MTEP09	Central	Vectren	2465	4429	10/1/2011	Leibert Rd 138/12kV Substation		1	138	12.5	16/20	New 138/12kV Substation for load growth	IN			Planned	\$2,622,781			NT	A
A in MTEP09	Central	Vectren	2466	4430	6/1/2013	Roesner Rd 138/12kV Substation		1	138	12.5	16/20	New 138/12kV Substation for load growth	IN			Planned	\$3,000,000			NT	A
A in MTEP08	Central	Vectren	1002	1566	6/1/2012	Northeast	Oak Grove	77	138		287/287	new line	IN		5	Under Construction	\$4,368,926			Y	A
A in MTEP08	Central	Vectren	1782	3572	12/31/2014	Northeast Sub Bus reconfig	Substation	1	138			Rebuild existing straight bus with more reliable breaker and half scheme	IN			Planned	\$7,000,000			Y	A
A in MTEP08	Central	Vectren	1784	3574	6/1/2016	Jasper#3 Sub Exp-Victory Line	Victory	1	69			Extend existing Victory line to new term at existing sub	IN			Planned	\$3,625,000			NT	A
A in MTEP08	Central	Vectren	1785	3575	12/31/2012	Z83 Upgrade NE	Z83 Upgrade NW	83	138			Upgrade terminal equipment at NE and NW.	IN			Planned	\$100,000			Y	A
A in MTEP08	Central	Vectren	1787	3577	6/1/2014	Dale Sub	Santa Clause Sub	75	69			New 69kV line from Dale Sub to Santa Clause Sub	IN			Planned	\$5,000,000			NT	A
A in MTEP08	Central	Vectren	1788	3578	6/1/2014	St. Wendel Sub	Mohr Rd Sub	34	69			New 69kV line from St. Wendel Sub to Mohr Rd Sub	IN			Planned	\$2,750,000			NT	A
A in MTEP08	Central	Vectren	1789	3579	6/1/2014	Boonville Sub	Boonville Pioneer Sub	56	69			New 69kV line from Boonville Sub to Boonville Pioneer Sub	IN			Planned	\$1,400,000			NT	A
A in MTEP08	Central	Vectren	1790	3580	6/1/2014	NE Sub	Elliott Sub	52	69			Rebuild/Reconductor existing Y52 and loop into Sunbeam	IN			Planned	\$2,550,000			NT	A
A in MTEP08	Central	Vectren	1791	3581	6/1/2012	Angel Mound Sub	East Side Sub	66	69			Uprate term equipment to increase capacity for Y66-2	IN			Planned	\$300,000			NT	A
A in MTEP06	Central	Vectren	1257	1973	6/1/2012	AB Brown	Reid (BREC)	17	345		1430/1430	new line	IN/KY		25.7	Under Construction	\$46,284,114	Y	Y	Y	A
A in MTEP10	East	ITC	2918	5087	12/31/2012	Breaker Replacement Program 2012	Throughout System		345	120			MI			Planned	\$6,000,000			Y	A
A in MTEP10	East	ITC	2919	5088	12/31/2012	NERC Relay Loadability Compliance 2012	Throughout system		345	120		Upgrade relay through system	MI			Planned	\$2,400,000			Y	A
A in MTEP10	East	ITC	2920	5089	12/31/2012	Potential Device Replacement 2012	Throughout System		345	120		Replace aging potential devices	MI			Planned	\$300,000			Y	A
A in MTEP10	East	ITC	2921	5090	12/31/2012	Relay Betterment Program 2012	Throughout System		345	120			MI			Planned	\$1,200,000			Y	A
A in MTEP10	East	ITC	2922	5091	12/31/2012	Wood Pole Replacement 2012	Throughout System			120		Replace deteriorating wood pole	MI			Planned	\$4,800,000			Y	A

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A in MTEP10	East	ITC	2923	5092	12/31/2012	Capacitor Replacement 2012	Throughout System		120			Replace capacitor banks	MI			Planned	\$600,000			Y	A
A in MTEP10	East	ITC	2925	5094	12/31/2011	Blanket for Customer Interconnections 2011	Throughout system		120			Connect interconnecting entities as requested	MI			Planned	\$2,000,000			Y	A
A in MTEP10	East	ITC	2926	5095	12/31/2012	Blanket for Customer Interconnections 2012	Throughout system		120			Connect interconnecting entities as requested	MI			Planned	\$2,000,000			Y	A
A in MTEP10	East	ITC	2927	5096	12/31/2013	Blanket for Customer Interconnections 2013	Throughout system		120			Connect interconnecting entities as requested	MI			Planned	\$2,000,000			Y	A
A in MTEP10	East	ITC	2928	5097	12/31/2014	Blanket for Customer Interconnections 2014	Throughout system		120			Connect interconnecting entities as requested	MI			Planned	\$2,000,000			Y	A
A in MTEP10	East	ITC	2929	5099	12/30/2012	Ariel (formerly Holland)	Wheeler	1	120			Distribution Interconnection to add two new 120/13.2kV transformers at Ariel (formerly Holland). Connects to the Wheeler to Troy 120kV circuit.	MI		0.1	Planned				Y	A
A in MTEP10	East	ITC	2929	5100	12/30/2012	Ariel (formerly Holland)	Troy	1	120			Distribution Interconnection to add two new 120/13.2kV transformers at Ariel (formerly Holland). Connects to the Wheeler to Troy 120kV circuit.	MI	0.73	0.1	Planned				Y	A
A in MTEP10	East	ITC	2929	5098	12/30/2012	Ariel (formerly Holland)	Holland	1	120			Distribution Interconnection to add two new 120/13.2kV transformers at Ariel (formerly Holland). Connects to the Wheeler to Troy 120kV circuit.	MI			Planned	\$2,800,000			Y	A
A in MTEP10	East	ITC	2930	5101	12/30/2015	Evergreen	Warren	1	120			Upper Rouge to Tap Evergreen Warren 120 kV circuit. Rebuild 0.65 mile of six-wired 477 ACSR Warren-Evergreen 120 kV circuit.	MI	0.65		Planned	\$1,900,000			Y	A
A in MTEP10	East	ITC	3168	5581	12/31/2013	Baker (formerly Reese)	Hampton	1	345			Tap the Pontiac to Hampton 345 kV circuit at new Baker site	MI			Planned		Y	Y	Y	A
A in MTEP10	East	ITC	3168	5984	12/31/2013	Baker (formerly Reese)	Hampton	2	345			Tap the Hampton to Thetford 345 kV circuit at new Baker site	MI			Planned		Y	Y	Y	A
A in MTEP10	East	ITC	3168	5582	12/31/2013	Baker (formerly Reese)	Pontiac	1	345			Tap the Pontiac to Hampton 345 kV circuit at new Baker site	MI			Planned		Y	Y	Y	A
A in MTEP10	East	ITC	3168	5577	12/31/2013	Baker (formerly Reese)	switching station		345			New Switching Station	MI			Planned		Y	Y	Y	A
A in MTEP10	East	ITC	3168	5584	12/31/2013	Baker (formerly Reese)	Thetford	1	345			Tap the Tittabawassee to Thetford (via Manning) 345 kV circuit at new Baker site	MI			Planned		Y	Y	Y	A
A in MTEP10	East	ITC	3168	5983	12/31/2013	Baker (formerly Reese)	Thetford	2	345			Tap the Hampton to Thetford 345 kV circuit at new Baker site	MI			Planned		Y	Y	Y	A
A in MTEP10	East	ITC	3168	5583	12/31/2013	Baker (formerly Reese)	Tittabawassee (via Manning)	1	345			Tap the Tittabawassee to Thetford (via Manning) 345 kV circuit at new Baker site	MI			Planned		Y	Y	Y	A
A in MTEP10	East	ITC	3168	5596	12/31/2015	Fitz (formerly Saratoga)	Belle River	1	345			Tap the three ended Belle River to Greenwood to Pontiac 345 kV circuit at new Fitz site	MI			Planned		Y	Y	Y	A
A in MTEP10	East	ITC	3168	5597	12/31/2015	Fitz (formerly Saratoga)	Belle River	2	345			Tap the Belle River to Blackfoot 345 kV circuit at new Fitz site	MI			Planned		Y	Y	Y	A
A in MTEP10	East	ITC	3168	5598	12/31/2015	Fitz (formerly Saratoga)	Blackfoot	1	345			Tap the Belle River to Blackfoot 345 kV circuit at new Fitz site	MI			Planned		Y	Y	Y	A
A in MTEP10	East	ITC	3168	5595	12/31/2015	Fitz (formerly Saratoga)	Pontiac	1	345			Tap the three ended Belle River to Greenwood to Pontiac 345 kV circuit at new Fitz site	MI			Planned		Y	Y	Y	A
A in MTEP10	East	ITC	3168	5587	12/31/2015	Fitz (formerly Saratoga)	switching station		345			New Switching Station	MI			Planned		Y	Y	Y	A
A in MTEP10	East	ITC	3168	5592	12/31/2015	Greenwood	Fitz (formerly Saratoga)	1	345			Tap the three ended Belle River to Greenwood to Pontiac 345 kV circuit at new Fitz site	MI			Planned		Y	Y	Y	A
A in MTEP10	East	ITC	3168	5593	12/31/2015	Greenwood	Fitz (formerly Saratoga)	2	345			New 345 kV circuit	MI		19	Planned		Y	Y	Y	A
A in MTEP10	East	ITC	3168	5594	12/31/2015	Greenwood	Fitz (formerly Saratoga)	3	345			New 345 kV circuit	MI		19	Planned		Y	Y	Y	A
A in MTEP10	East	ITC	3168	5588	12/31/2015	Greenwood	sub expansion		345			Add two new rows to existing Greenwood 345 kV substation	MI			Planned		Y	Y	Y	A
A in MTEP10	East	ITC	3168	5585	12/31/2013	Rapson (formerly Wyatt)	Baker (formerly Reese)	1	345			New 345 kV circuit	MI		56	Planned		Y	Y	Y	A

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Target Appendix	Region	Geographic Location by TO Member System	Proj ID	Facility ID	Expected ISD	From Sub	To Sub	Qty	Max kV	Min kV	Facility Rating	Facility Description	State	Miles Upgr	Miles New	Plan Status	Estimated Cost	Cost Shared	Postage Stamp	MISO Facility	App ABC	
A in MTEP10	East	ITC	3168	5586	12/31/2013	Rapson (formerly Wyatt)	Baker (formerly Reese)	2	345			New 345 kV circuit	MI		56	Planned		Y	Y	Y	A	
A in MTEP10	East	ITC	3168	5589	12/31/2015	Rapson (formerly Wyatt)	Greenwood	1	345			New 345 kV circuit	MI		65	Planned		Y	Y	Y	A	
A in MTEP10	East	ITC	3168	5590	12/31/2015	Rapson (formerly Wyatt)	Greenwood	2	345			New 345 kV circuit	MI		65	Planned		Y	Y	Y	A	
A in MTEP10	East	ITC	3168	5986	12/31/2013	Rapson (formerly Wyatt)	Harbor Beach	1	120			Tap the Wyatt to Harbor Beach 120 kV circuit at new Rapson site	MI			Planned		Y	Y	Y	A	
A in MTEP10	East	ITC	3168	6104	12/31/2013	Rapson (formerly Wyatt)	Seaside	1	120			Tap the Wyatt to Seaside 120 kV circuit at new Rapson site	MI			Planned		Y	Y	Y	A	
A in MTEP10	East	ITC	3168	5988	12/31/2013	Rapson (formerly Wyatt)	Seaside	1	120			Tap the Wyatt to Seaside 120 kV circuit at new Rapson site	MI			Planned		Y	Y	Y	A	
A in MTEP10	East	ITC	3168	5578	12/31/2013	Rapson (formerly Wyatt)	switching station		345	120		New Switching Station	MI			Planned		Y	Y	Y	A	
A in MTEP10	East	ITC	3168	6101	12/31/2013	Rapson (formerly Wyatt)	Wyatt	1	120			Tap the Wyatt to Harbor Beach 120 kV circuit at new Rapson site	MI			Planned		Y	Y	Y	A	
A in MTEP10	East	ITC	3168	5985	12/31/2013	Rapson (formerly Wyatt)	Wyatt	1	120			Tap the Wyatt to Harbor Beach 120 kV circuit at new Rapson site	MI			Planned		Y	Y	Y	A	
A in MTEP10	East	ITC	3168	5987	12/31/2013	Rapson (formerly Wyatt)	Wyatt	2	120			Tap the Wyatt to Seaside 120 kV circuit at new Rapson site	MI			Planned		Y	Y	Y	A	
A in MTEP10	East	ITC	3168	5579	12/31/2013	Rapson (formerly Wyatt)	Rapson (formerly Wyatt)	1	345	120		New 345/120 kV transformer	MI			Planned		Y	Y	Y	A	
A in MTEP10	East	ITC	3168	5580	12/31/2013	Rapson (formerly Wyatt)	Rapson (formerly Wyatt)	2	345	120		New 345/120 kV transformer	MI			Planned		Y	Y	Y	A	
A in MTEP10	East	ITC	3168	5591	12/31/2015	Sandusky 345 kV	Sandusky 120 kV	1	345	120		New 345/120 kV transformer	MI			Planned		Y	Y	Y	A	
A in MTEP10	East	ITC	3168	5599	12/31/2015	Total project cost estimate						Costs from ITC report to Michigan Wind Zones Board and the Michigan Public Service Commission dated November 30, 2009	MI			Planned	\$510,000,000	Y	Y	Y	A	
A in MTEP09	East	ITC	1872	3763	6/1/2013	ScioTP	Spruce	1	120		313 MVA	Scio Taps the Lark-Spruce 120kV circuit	MI			Planned				Y	A	
A in MTEP09	East	ITC	1872	3764	6/1/2013	ScioTP	Scio	1	120		343 MVA	Scio Taps the Lark-Spruce 120kV circuit	MI			Planned	\$3,000,000				Y	A
A in MTEP09	East	ITC	1872	3762	6/1/2013	ScioTP	Lark	1	120		249 MVA	Scio Taps the Lark-Spruce 120kV circuit	MI			Planned					Y	A
A in MTEP09	East	ITC	2519	4526	12/31/2011	Breaker Replacement Program 2011	Throughout System						MI			Planned	\$5,650,000				Y	A
A in MTEP09	East	ITC	2520	4527	12/31/2011	Cable Termination Replacement 2011	Throughout System						MI			Planned	\$3,000,000				Y	A
A in MTEP09	East	ITC	2521	4528	12/31/2011	Relay Betterment Program 2011	Throughout System						MI			Planned	\$1,200,000				Y	A
A in MTEP09	East	ITC	2525	4531	12/31/2011	Capacitor Replacement 2011	Throughout System					Replace capacitor banks	MI			Planned	\$565,000				Y	A
A in MTEP09	East	ITC	2528	4534	12/31/2011	Potential Device Replacement 2011	Throughout System					Replace aging potential devices	MI			Planned	\$300,000				Y	A
A in MTEP09	East	ITC	2531	4537	12/31/2011	Power Plant Control Relocation 2011	Throughout System					Relocate substation controls currently located in power plants control rooms	MI			Planned	\$1,200,000				Y	A
A in MTEP09	East	ITC	2534	4540	12/31/2011	Wood Pole Replacement 2011	Throughout System					Replace deteriorating wood pole	MI			Planned	\$9,000,000				Y	A
A in MTEP09	East	ITC	2537	4543	12/31/2011	Synchronizing Sites 2011	Throughout System					New 120kV synchronizing sites	MI			Planned	\$565,000				Y	A
A in MTEP09	East	ITC	2539	4545	12/31/2011	NERC Relay Loadability Compliance 2011	Throughout system			120		Upgrade relay through system	MI			Planned	\$2,250,000				Y	A
A in MTEP09	East	ITC	2541	4547	7/22/2011	Hunters Creek - Robin - Wabash				120		Install double shield wire	MI			Under Construction	\$2,400,000				Y	A
A in MTEP09	East	ITC	2545	4552	9/1/2011	Navarre				120		Relay modifications	MI			Planned	\$640,000				Y	A
A in MTEP08	East	ITC	1870	3757	6/1/2013	ClydeTP	Placid	1	120		343 MVA	Clyde taps the Placid-Durant 120kV circuit	MI	11.5		Planned					Y	A
A in MTEP08	East	ITC	1870	3758	6/1/2013	ClydeTP	Durant	1	120		343 MVA	Clyde taps the Placid-Durant 120kV circuit	MI	6.6		Planned					Y	A
A in MTEP08	East	ITC	1870	3759	6/1/2013	ClydeTP	Clyde	1	120		343 MVA	Clyde taps the Placid-Durant 120kV circuit	MI		3.3	Planned	\$2,750,000				Y	A
A in MTEP08	East	ITC	1873	3765	5/31/2013	Tahoe	Wixom	1	120		351 MVA	Creates at new Tahoe-Wixom 120kV; constructs 2.6 miles of 120 kV line circuit	MI		2.6	Planned	\$2,800,000				Y	A
A in MTEP06	East	ITC	1308	2141	9/30/2011	Bunce Creek PAR		1	220				MI			Planned	\$25,000,000				Y	A
A in MTEP06	East	ITC	1310	2159	9/30/2011	St. Clair 120 kV pos. HS	circuit breaker			120		CB replacement	MI			Planned	\$150,000				Y	A
A in MTEP10	East	METC	2502	4502	12/31/2011	McGulpin				138		Install 15 MVAR shunt reactor at McGulpin	MI			Planned	\$3,000,000				Y	A

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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 Stamp	MISO Facility	App ABC
A in MTEP10	East	METC	2903	5380	12/31/2012	Various						Replace batteries and chargers	MI			Planned	\$300,000			Y	A
A in MTEP10	East	METC	2904	5381	12/31/2012	Various						Breaker replacement	MI			Planned	\$6,000,000			Y	A
A in MTEP10	East	METC	2905	5382	12/31/2012	Various						Relay loadability	MI			Planned	\$2,400,000			Y	A
A in MTEP10	East	METC	2906	5383	12/31/2012	Various						Potential device replacement	MI			Planned	\$300,000			Y	A
A in MTEP10	East	METC	2907	5384	12/31/2012	Various						Plant control relocation	MI			Planned	\$1,200,000			Y	A
A in MTEP10	East	METC	2908	5385	12/31/2012	Various						Relay replacement	MI			Planned	\$1,200,000			Y	A
A in MTEP10	East	METC	2909	5078	12/31/2012	Sag clearance 2012	Throughout system		345	138		Review and correct NESC code violations	MI			Planned	\$3,600,000			Y	A
A in MTEP10	East	METC	2910	5079	12/31/2012	Wood Pole Replacement 2012	Throughout system		138			Replace deteriorating wood pole	MI			Planned	\$4,800,000			Y	A
A in MTEP10	East	METC	2912	5081	12/31/2011	Blanket for Customer Interconnections 2011	Throughout system		138			Connect interconnecting entities as requested	MI			Planned	\$2,500,000			Y	A
A in MTEP10	East	METC	2913	5082	12/31/2012	Blanket for Customer Interconnections 2012	Throughout system		138			Connect interconnecting entities as requested	MI			Planned	\$2,500,000			Y	A
A in MTEP10	East	METC	2914	5083	12/31/2013	Blanket for Customer Interconnections 2013	Throughout system		138			Connect interconnecting entities as requested	MI			Planned	\$2,500,000			Y	A
A in MTEP10	East	METC	2915	5084	12/31/2014	Blanket for Customer Interconnections 2014	Throughout system		138			Connect interconnecting entities as requested	MI			Planned	\$2,500,000			Y	A
A in MTEP10	East	METC	2916	5085	6/1/2012	Livingston	Vanderbilt		138			Rebuild 9.7 miles of 138 kV 266 ACSR to 954 ACSR FDC 230 kV construction.	MI	9.7		Planned	\$12,734,400	Y		Y	A
A in MTEP10	East	METC	2917	5086	11/30/2011	David Jct	Bingham		138			Improve sag clearance by replacing 16 wood poles with 138 kV FDC steel poles.	MI			Planned	\$1,216,860			Y	A
A in MTEP10	East	METC	3073	5437	12/31/2011	TC East Substation	TC East Substation		138			New 3 breaker switching station and 0.25 mile 954 ACSR line	MI			Planned	\$4,913,791	N		Y	A
A in MTEP09	East	METC	646	1329	12/1/2011	Edenville J.	Warren	1	138			Replace poles on half of the Edenville Jct. - Warren 138kV line, prebuilt to 230kV	MI	7.8		Planned	\$6,000,000			Y	A
A in MTEP09	East	METC	646	4967	12/1/2012	Edenville J.	Warren	1	138			Replace poles on half of the Edenville Jct. - Warren 138kV line, prebuilt to 230kV	MI	7		Planned	\$6,500,000			Y	A
A in MTEP09	East	METC	662	3596	6/1/2013	Weeds Lake	N_AVE		138			line extension on MILHAM to N_AVE circuit N_AVE side	MI			Planned	\$5,010,000	Y		Y	A
A in MTEP09	East	METC	662	3593	6/1/2013	Weeds Lake	BRONCO		138			line extension on BRONCO 12th ST circuit BRONCO side	MI			Planned	\$5,010,000	Y		Y	A
A in MTEP09	East	METC	662	3592	6/1/2013	Weeds lake 345/138 kV	Transformer		345	138		transformer	MI			Planned	\$23,365,447	Y		Y	A
A in MTEP09	East	METC	662	3595	6/1/2013	Weeds Lake	12th ST		138			line extension on BRONCO to 12th ST circuit 12TST side	MI			Planned	\$5,010,000	Y		Y	A
A in MTEP09	East	METC	662	3594	6/1/2013	Weeds Lake	MILHAM		138			line extension on MILHAM to N_AVE circuit MILHAM side	MI			Planned	\$5,010,000	Y		Y	A
A in MTEP09	East	METC	662	1350	6/1/2013	Weeds Lake 138 kV	BRONCO to 12th ST		138			tapping BRONCO to 12TST circuit into Weeds Lake	MI			Planned	\$810,505	Y		Y	A
A in MTEP09	East	METC	662	3597	6/1/2013	Weeds Lake Jct	MILHAM to N_AVE		345			tapping MILHAM to N_AVE circuit into weeds lake	MI			Planned	\$810,505	Y		Y	A
A in MTEP09	East	METC	1810	3634	12/31/2011	East Tawas	Iosco	1	138			Rebuild 12 miles of 138kV to 954 ACSR.	MI	80		Planned	\$9,818,854			Y	A
A in MTEP09	East	METC	1833	2880	12/31/2011	Sag clearance 2011	Throughout system						MI			Planned	\$3,400,000			Y	A
A in MTEP09	East	METC	2475	4461	6/1/2015	Doans	Beals	1	138			New 138kV switching station at Titus Lake junction.	MI			Planned	\$2,100,000			Y	A
A in MTEP09	East	METC	2475	4462	6/1/2015	Doans	Hazelwood	1	138			New 138kV switching station at Titus Lake junction.	MI			Planned	\$2,100,000			Y	A
A in MTEP09	East	METC	2478	4466	5/31/2012	Capital Ave	Battle Creek	1	138			Capital Ave taps the Battle Creek-Verona 138kV circuit #2.	MI			Planned	\$89,094			Y	A
A in MTEP09	East	METC	2478	4467	5/31/2012	Capital Ave	Battle Creek	1	138			Capital Ave taps the Battle Creek-Verona 138kV circuit #2.	MI			Planned	\$89,094			Y	A
A in MTEP09	East	METC	2481	4470	6/1/2012	Forest Grove	Campbell	1	138			Forest Grove taps the Campbell-Hudsonville (toward Ransom) 138kV circuit	MI			Planned	\$85,000			Y	A
A in MTEP09	East	METC	2481	4471	6/1/2012	Forest Grove	Hudsonville	1	138			Forest Grove taps the Campbell-Hudsonville (toward Ransom) 138kV circuit	MI			Planned	\$85,000			Y	A
A in MTEP09	East	METC	2482	4472	5/31/2013	Hawthorne	Four Mile	1	138			Hawthorne taps the Four Mile-Pingree (toward Blendon) 138kV circuit	MI			Planned	\$85,000			Y	A
A in MTEP09	East	METC	2482	4473	5/31/2013	Hawthorne	Pingree	1	138			Hawthorne taps the Four Mile-Pingree (toward Blendon) 138kV circuit	MI			Planned	\$85,000			Y	A

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Target Appendix	Region	Geographic Location by TO Member System	ProjID#	Facility ID	Expected (SD)	From Sub	To Sub	Qty	Max KV	Min KV	Facility Rating	Facility Description	Status	Miles Upg	Miles New	Plant Status	Estimated Cost	Cost Shared	Postage Stamp	MISO Facility	App ABC
A in MTEP09	East	METC	2483	4474	5/31/2012	Maines Road	Marshall	1	138			Maines Road taps the Marshall-Blackstone 138kV circuit	MI			Planned	\$88,193			Y	A
A in MTEP09	East	METC	2483	4475	5/31/2012	Maines Road	Blackstone	1	138			Maines Road taps the Marshall-Blackstone 138kV circuit	MI			Planned	\$88,193			Y	A
A in MTEP09	East	METC	2484	4476	5/31/2012	Scenic Lake	Cornell	1	138			Scenic Lake taps the Cornell-Tihart 138kV circuit	MI			Planned	\$88,193			Y	A
A in MTEP09	East	METC	2484	4477	5/31/2012	Scenic Lake	Tihart	1	138			Scenic Lake taps the Cornell-Tihart 138kV circuit	MI			Planned	\$88,193			Y	A
A in MTEP09	East	METC	2485	4478	6/1/2013	Ransom	Buck Creek	1	138			Relay modifications	MI			Planned	\$12,000			Y	A
A in MTEP09	East	METC	2486	4479	5/31/2014	Haakwood	Rondo	1	138			Haakwood taps the Rondo-Vanderbilt section of the Riggsville-Livingston 138kV line.	MI			Planned	\$85,000			Y	A
A in MTEP09	East	METC	2486	4480	5/31/2014	Haakwood	Vanderbilt	1	138			Haakwood taps the Rondo-Vanderbilt section of the Riggsville-Livingston 138kV line.	MI			Planned	\$85,000			Y	A
A in MTEP09	East	METC	2487	4482	6/30/2012	Birchwood	Kraft	1	138			Birchwood taps the Spaulding-Kraft section of the Spaulding-Plaster Creek 138kV circuit	MI			Planned	\$85,000			Y	A
A in MTEP09	East	METC	2487	4481	6/30/2012	Birchwood	Spaulding	1	138			Birchwood taps the Spaulding-Kraft section of the Spaulding-Plaster Creek 138kV circuit	MI			Planned	\$85,000			Y	A
A in MTEP09	East	METC	2489	4485	9/30/2011	Tippy	terminal equipment		138			Terminal equipment upgrade at Tippy on the Tippy-Keystone 138kV line.	MI			Planned	\$60,215			Y	A
A in MTEP09	East	METC	2492	4490	6/1/2013	Battle Creek			138			Terminal equipment upgrade	MI			Planned	\$100,000			Y	A
A in MTEP09	East	METC	2492	4491	6/1/2013	Verona			138			Terminal equipment upgrade	MI			Planned	\$100,000			Y	A
A in MTEP09	East	METC	2496	4943	6/1/2013	Bullock	Tittabawassee		138			Terminal equipment upgrade at Bullock	MI			Planned	\$220,000			Y	A
A in MTEP09	East	METC	2496	4496	6/1/2013	Tittabawassee			138			Terminal equipment upgrade	MI			Planned	\$140,000			Y	A
A in MTEP09	East	METC	2498	4800	12/31/2011	Breaker replacement program	2011						MI			Planned	\$5,650,000			Y	A
A in MTEP09	East	METC	2499	4827	12/31/2011	Relay Betterment Program 2011	Throughout system						MI			Planned	\$1,200,000			Y	A
A in MTEP09	East	METC	2501	4500	6/1/2012	Keystone						Install 50.4 MVAR capacitor	MI			Planned	\$740,323			Y	A
A in MTEP09	East	METC	2501	4501	6/1/2012	Plum						Install 25.2 MVAR capacitor	MI			Planned	\$435,484			Y	A
A in MTEP09	East	METC	2501	4499	6/1/2012	New site (Wexford prime)						Install 25.2 MVAR capacitor	MI			Planned	\$1,524,194			Y	A
A in MTEP09	East	METC	2507	4510	6/1/2013	Alcona	Mio	1	138			Rebuild the Twining-Mio 138kV line to 954 ACSR future-double-circuit (pre-built to 230kV)	MI	20		Planned	\$24,500,000			Y	A
A in MTEP09	East	METC	2510	4513	12/31/2011	Wood Pole Replacement 2011	Throughout system		138			Replace deteriorating wood pole	MI			Planned	\$6,000,000			Y	A
A in MTEP09	East	METC	2515	4518	8/1/2011	Oakland	Dean	1	138			Replace wood structures	MI			Planned	\$3,774,325			Y	A
A in MTEP09	East	METC	2515	4521	8/1/2011	Latson	Tihart	1	138			Replace wood structures	MI			Planned	\$11,804,805			Y	A
A in MTEP09	East	METC	2515	4522	8/1/2011	Genoa	Latson (METC side)	1	138			Replace wood structures	MI			Planned	\$1,124,267			Y	A
A in MTEP09	East	METC	2515	4520	8/1/2011	Dean	Latson	1	138			Replace wood structures	MI			Planned	\$2,168,230			Y	A
A in MTEP09	East	METC	2517	4524	12/31/2011	NERC Relay Loadability Compliance 2011	Throughout system		138			Upgrade relay through system	MI			Planned	\$2,250,000			Y	A
A in MTEP09	East	METC	2522	4801	12/31/2011	Power Plant Control Relocation 2011	Throughout System					Relocate substation controls currently located in power plants control rooms				Planned	\$1,200,000			Y	A
A in MTEP08	East	METC	1448	2452	6/1/2016	Simpson 138kV			138	12.5		Install a second distribution transformer at Simpson (Simpson)	MI			Planned	\$2,200,000			Y	A
A in MTEP08	East	METC	1655	3406	12/31/2011	Weadock 138kV	Breaker 500		138				MI			Planned	\$160,000			Y	A
A in MTEP08	East	METC	1655	3404	12/31/2011	Weadock 138kV	Breaker 388		138				MI			Planned	\$160,000			Y	A
A in MTEP08	East	METC	1655	3403	12/31/2011	Weadock 138kV	Breaker 288		138				MI			Planned	\$160,000			Y	A
A in MTEP08	East	METC	1796	3605	12/31/2011	Twining	Almeda	1	138			Reconductor	MI	22		Planned	\$22,819,200	Y		Y	A
A in MTEP08	East	METC	1814	3648	12/31/2012	Tippy	Chase	1	138			Reconductor	MI	30		Planned	\$26,970,000	Y		Y	A
A in MTEP08	East	METC	1820	2872	12/31/2011	METC Communication and Relaying Upgrade	Throughout system						MI			Planned	\$10,000,000			Y	A
A in MTEP08	East	METC	1834	3695	12/15/2011	Tirrell Road	Battle Creek	1	138			Tirrel Rd. taps the Battle Creek-Cochran 138kV circuit	MI			Planned	\$100,000			Y	A

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

Target Appendix	Region	Geographic Location by TO Member System	Proj ID	Facility ID	Expected ISD	From Sub	To Sub	Qty	Max KV	Min KV	Facility Rating	Facility Description	State	Miles Upd	Miles New	Plan Status	Estimated Cost	Cost Shared	Postage Stamps	MISO Facility	App ABC
A in MTEP08	East	METC	1834	3696	12/15/2011	Tirrell Road	Cochran Jct.	1	138			Tirrel Rd. taps the Battle Creek-Cochran 138kV circuit	MI			Planned	\$100,000			Y	A
A in MTEP08	East	METC	1841	3709	5/31/2012	Eagles Landing	East Tawas	1	138			Eagles Landing Taps the Cottage Grove - East Tawas 138kV circuit	MI			Planned	\$89,094			Y	A
A in MTEP08	East	METC	1841	3708	5/31/2012	Eagles Landing	Cottage Grove	1	138			Eagles Landing Taps the Cottage Grove - East Tawas 138kV circuit	MI			Planned	\$89,094			Y	A
A in MTEP06	East	METC	988	1551	12/31/2011	Simpson	Batavia	1	138				MI		30	Planned	\$37,100,000	Y		Y	A
A in MTEP06	East	METC	1408	2411	6/30/2013	RTU/SCADA upgrades	Throughout System		345	138		Install and/or upgrade numerous RTU/SCADA points	MI			Under Construction	\$801,000			Y	A
A in MTEP06	East	METC	1434	2438	6/1/2014	Spaulding 138kV				138		Install bulk substation served from the Spaulding 138kV ring bus (Five Mile)	MI			Planned	\$750,000			Y	A
A in MTEP06	East	METC	1445	2449	12/31/2016	Emmet 138kV	distribution			138		Install a second distribution transformer at Emmet (Emmet)	MI			Planned	\$2,750,000			Y	A
A in MTEP06	East	METC	1447	2451	6/1/2012	Eureka 138kV	Vestaburg 138kV	1	138			Install bulk substation served from the Eureka-Deja-Vestaburg 138kV Line (Horseshoe Creek/Deja)	MI			Planned	\$2,200,000			Y	A
A in MTEP10	East	MPPA	3073	5377	12/31/2012	TC East Substation	TC East Substation		138	69	90/150 MVA	New 138/69kV substation interconnection	MI			Planned	\$3,500,000	N		Y	A
A in MTEP10	East	MPPA	3074	5378	12/31/2012	TC East Substation	Parsons Sub		69		108/140 MVA	New 69kV line construction	MI		4.1	Planned	\$1,600,000			Y	A
A in MTEP10	East	NIPS	2322	4248	6/1/2011	Green Acres	Transformer		345	138	560	Install a 560 MVA 345/138 kV transformer, (1) 345 kV and (1) 138 kV circuit breaker and associated equipment at Green Acres Substation.	IN			Planned	\$7,417,000	Y		Y	A
A in MTEP08	East	NIPS	1996	2786	12/1/2012	Angola	Switch #644	1	69	81		Circuit 6980 - Reconductor 2/0 CU to 336.4kcm ACSR	IN	12		Under Construction	\$2,465,948			Y	A
A in MTEP08	East	NIPS	1997	2787	12/1/2015	Goshen Junction	Model Tap	1	69	81		Circuit 6977 - Reconductor 4/0 CU to 336.4kcm ACSR	IN	1.5		Planned	\$357,000			Y	A
A in MTEP10	EAST	WPSC	3060	5335	12/31/2020	Morley	Capacitor Bank		69			Install a Capacitor Bank	MI			Planned	\$260,000			Y	A
A in MTEP10	EAST	WPSC	3061	5337	6/1/2012	Tremaine	Lowell Junction	1	69			Tremaine taps the Portland to Burnips Circuit near Lowell Junction - Install a tap pole and disconnect switches	MI			Planned	\$100,000			Y	A
A in MTEP10	EAST	WPSC	3061	5336	6/1/2012	Portland	Tremaine	1	69			Tremaine taps the Portland to Burnips Circuit near Lowell Junction - Install a tap pole and disconnect switches	MI			Planned	\$100,000			Y	A
A in MTEP10	EAST	WPSC	3062	5326	12/31/2013	Blendon 138kV	Blendon 69kV	1	138	69	150MVA	Replace with a 90MVA Transformer	MI			Planned	\$3,750,000			Y	A
A in MTEP10	EAST	WPSC	3063	5327	12/31/2011	Redwood	Baseline	1	69		143.4MVA	Rebuild to 795ACSS	MI	6.12		Under Construction	\$2,500,000			Y	A
A in MTEP10	EAST	WPSC	3068	5332	12/31/2014	South Boardman	Capacitor Bank		69			Install a Capacitor Bank	MI			Planned	\$260,000			Y	A
A in MTEP10	EAST	WPSC	3069	5333	12/31/2020	Weidman	Capacitor Bank		69			Install a Capacitor Bank	MI			Planned	\$260,000			Y	A
A in MTEP09	East	WPSC	2735	4756	12/31/2013	Alba	Mancelona	1	69		143.4MVA	Rebuild Overloaded Line	MI	4.51		Planned	\$1,900,000			Y	A
A in MTEP09	East	WPSC	2735	4757	12/31/2013	Mancelona	Westwood	1	69		143.4MVA	Rebuild Overloaded Line	MI	6.7		Planned	\$2,900,000			Y	A
A in MTEP09	East	WPSC	2736	4758	12/31/2014	East Bay	South Boardman Distribution	1	69		143.4MVA	Rebuild Overloaded Line	MI	15.93		Planned	\$6,500,000			Y	A
A in MTEP09	East	WPSC	2770	4832	6/1/2012	Hersey	Gilmore	1	69			Gilmore Taps the Hersey to Vestaburg 69kV circuit	MI			Planned	\$100,000			Y	A
A in MTEP09	East	WPSC	2770	4833	6/1/2012	Gilmore	Vestaburg	1	69			Gilmore Taps the Hersey to Vestaburg 69kV circuit	MI			Planned	\$100,000			Y	A
A in MTEP08	East	WPSC	1222	1917	12/31/2011	Lake County	Bus Upgrade		69			Convert Single Bus to Ring Bus	MI			Under Construction	\$2,550,000			Y	A
A in MTEP08	East	WPSC	1222	2129	12/31/2011	Lake County 138	Lake County 69		138	69	150MVA	Add 168MV transformer	MI			Under Construction	\$3,500,000			Y	A
A in MTEP08	East	WPSC	1274	1996	12/31/2012	Allendale	Blendon		69		143.4MVA	Rebuild Overloaded line	MI	2.11		Planned	\$800,000			Y	A
A in MTEP08	East	WPSC	1274	3257	12/31/2014	Allendale	Osipoff	1	69		143.4MVA	Rebuild Overloaded line	MI	14.53		Planned	\$6,500,000			Y	A
A in MTEP08	East	WPSC	1311	2167	12/31/2012	Grawn	Karlin		69		143.4MVA	Rebuild Overloaded line	MI	6.61		Planned	\$3,000,000			Y	A
A in MTEP08	East	WPSC	1311	2166	12/31/2014	Copemish	Karlin		69		143.4MVA	Rebuild Overloaded line	MI	13.59		Planned	\$6,100,000			Y	A
A in MTEP08	East	WPSC	1313	2168	12/31/2012	Baldwin	Plains X		69		143.4MVA	Rebuild Overloaded line (Off peak case)	MI	6.94		Planned	\$2,900,000			Y	A
A in MTEP08	East	WPSC	1313	3850	12/31/2015	Hersey	Lincoln X	1	69		143.4MVA	Rebuild Overloaded Line (Off peak case)	MI	3.05		Planned	\$1,400,000			Y	A
A in MTEP08	East	WPSC	1313	3851	12/31/2015	Lincoln X	Baldwin	1	69		143.4MVA	Rebuild Overloaded Line (Off peak case)	MI	16.47		Planned	\$7,150,000			Y	A
A in MTEP08	East	WPSC	1581	3233	12/31/2011	East Jordan X	Graves X	1	69		143.4MVA	Rebuild Overloaded line	MI	7.14		Planned	\$2,900,000			Y	A

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A in MTEP08	East	WPSC	1581	3134	12/31/2011	Alba	Graves X	1	69		143.4MVA	Rebuild Overloaded line	MI	4.72		Planned	\$1,900,000			Y	A
A in MTEP08	East	WPSC	1581	3852	12/31/2012	Advance	Advance Dist.	1	69		143.4MVA	Rebuild Overloaded Line	MI	0.91		Planned	\$500,000			Y	A
A in MTEP08	East	WPSC	1581	3853	12/31/2012	Advance Dist.	East Jordan X	1	69		143.4MVA	Rebuild Overloaded Line	MI	4.66		Planned	\$2,000,000			Y	A
A in MTEP08	East	WPSC	1586	3143	12/31/2015	Elmira	Advance	1	69		143.4MVA	Rebuild Overloaded line	MI	16.26		Planned	\$7,200,000			Y	A
A in MTEP08	East	WPSC	1967	3862	12/31/2020	Sebewa	Portland	1	69		143.4MVA	Rebuild Line (Poles have reached the end of their useful life)	MI	6.85		Planned	\$2,400,000			Y	A
A in MTEP08	East	WPSC	1967	3858	12/31/2020	Wayland	Middleville X	1	69		143.4MVA	Rebuild Line (Poles have reached the end of their useful life)	MI	10.69		Planned	\$3,800,000			Y	A
A in MTEP08	East	WPSC	1967	3860	12/31/2020	Superior	Odessa	1	69		143.4MVA	Rebuild Line (Poles have reached the end of their useful life)	MI	0.06		Planned	\$50,000			Y	A
A in MTEP08	East	WPSC	1967	3859	12/31/2020	Middleville X	Superior	1	69		143.4MVA	Rebuild Line (Poles have reached the end of their useful life)	MI	19.73		Planned	\$7,092,000			Y	A
A in MTEP08	East	WPSC	1967	3861	12/31/2020	Odesa	Sebewa	1	69		143.4MVA	Rebuild Line (Poles have reached the end of their useful life)	MI	3.37		Planned	\$1,200,000			Y	A
A in MTEP06	East	WPSC	1272	1994	12/31/2012	Redwood 138	Redwood 69		138	69	65MVA	Add 75MV transformer	MI			Planned	\$3,000,000			Y	A
A in MTEP10	West	ATC LLC	2451	4396	3/1/2012	Brodhead	Spring Grove	1	69		80 MVA	Rebuild Brodhead- S Monroe 69kV line with T2 477 kmil ACSR	WI	3.1		Planned	\$11,800,000			Y	A
A in MTEP10	West	ATC LLC	2819	4957	12/27/2011	Bluemound	transformer	3	230	138	400 MVA	Replace Bluemound 230/138kV transformer T3 with a 400 MVA unit	WI			Planned	\$8,000,000			Y	A
A in MTEP10	West	ATC LLC	3122	5473	6/19/2012	Dam Heights	Okee Tap	1	69		73 MVA	Reconductor 1.94 mi of 3-0 and 336 ACSR line conductor with T-2 4-0 ACSR keeping the T-2 3-0 ACSR for the DHT-Okee Tap section of line Y-8, replace 26 1919 vintage lattice towers and 4 wood poles	WI	8.88		Planned	\$2,177,421			Y	A
A in MTEP09	West	ATC LLC	2452	4394	12/31/2011	Glacier Hills Wind 2	generator	W	0.69		150 MW	H012 Glacier Hills 2 Wind Farm	WI			Planned				Y	A
A in MTEP09	West	ATC LLC	2452	4416	12/31/2011	Glacier Hills Wind 1	generator	W	0.69		99 MW	G706 Glacier Hills 1 Wind Farm	WI			Planned				Y	A
A in MTEP08	West	ATC LLC	356	897	6/1/2013	Rockdale/Albion	345 kV bus modification at Rockdale/new 345 kV switching station at Albion		345			345 kV bus modification at Rockdale/new 345 kV switching station at Albion	WI			Planned	\$15,020,590	Y	Y	Y	A
A in MTEP08	West	ATC LLC	356	488	6/1/2013	Cardinal (formerly West Middleton) 345/138	transformer	1	345	138	500		WI			Planned	\$4,986,995	Y		Y	A
A in MTEP08	West	ATC LLC	356	486	6/1/2013	Cardinal (formerly West Middleton)	Rockdale/Albion	1	345		1195 MVA SE		WI	35		Planned	\$174,094,863	Y	Y	Y	A
A in MTEP08	West	ATC LLC	356	3383	6/1/2013	Cardinal (formerly West Middleton) 345/138	transformer, backup	2	345	138	500		WI			Planned	\$4,986,995	Y		Y	A
A in MTEP08	West	ATC LLC	356	3384	6/1/2013	Cardinal (formerly West Middleton)	substation		345			new 345 substation	WI			Planned	\$20,035,429	Y	Y	Y	A
A in MTEP08	West	ATC LLC	574	1370	6/1/2014	Council Creek 161-138 kV	transformer	1	161	138	210	New Council Creek Transformer	WI			Planned	\$5,404,000			Y	A
A in MTEP08	West	ATC LLC	574	1269	6/1/2014	Monroe County (XEL)	Council Creek (ATC)	1	161		445	Install new T2-566 ACSR, OH-ATC-161-DC, 17.3 mi	WI	17.3		Planned	\$25,296,000			Y	A
A in MTEP08	West	ATC LLC	574	858	6/1/2014	Council Creek	Petenwell	1	138		191	Uprated Petenwell substation to 191 MW CT limit	WI	30.3		Planned				Y	A
A in MTEP08	West	ATC LLC	574	6329	6/1/2014	Council Creek	Transformer	1	138	69	100	Replace relaying to uprate transformer as part of Project ID: 574 (Monroe County-Council Ck 161 kV line)	WI			Planned	\$4,003,000			Y	A
A in MTEP08	West	ATC LLC	1683	3458	3/1/2012	Sunset Point	Pearl Ave	1	69		57 MVA	Rebuild 2.37 miles of 69 kV from Sunset Point-Pearl Ave with 477 ACSR	WI	2.37		Planned	\$4,128,701			Y	A
A in MTEP08	West	DPC	1957	3841	6/1/2012	new sub	Burnswick	1	69		84 MVA	Construct 69 kV line from new substation to DPC Brunswick Substation	WI			Planned	\$0			NT	A
A in MTEP08	West	DPC	1957	3840	6/1/2012	new sub	Union (DPC)	1	69		84 MVA	Construct 69 kV line from new substation to DPC Union Substation	WI			Planned	\$0			NT	A
A in MTEP10	West	GRE	1018	640	11/30/2012	Little Falls	CWP Little Falls	1	115		196	115 kv line operated at 34.5	MN	4		Planned	\$1,705,514			Y	A
A in MTEP10	West	GRE	2564	4566	10/28/2012	Sartell	Le Sauk	1	115			Sartell Distribution Sub, 795 ACSS 115 kV radial line and switch	MN		3	Planned	\$1,385,861			Y	A
A in MTEP10	West	GRE	2565	4567	11/5/2012	Tower	Frazer Bay	1	69			New Distribution	MN		15	Under Construction	\$8,783,373			NT	A

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A in MTEP10	West	GRE	2565	4584	11/5/2012	Tower	Transformer	1	115	69	70	New Substation	MN		0	Planned	\$2,005,882			Y	A
A in MTEP10	West	GRE	2565	4585	11/5/2012	Cook	Frazer Bay	1	69			477 ACSR, 69 kV	MN		12	Planned	\$8,485,844			NT	A
A in MTEP10	West	GRE	2566	4569	10/14/2011	Potato Lake	Potato Lake Tap	1	115			New distribution built 115 (op 34.5)	MN		7	Under Construction	\$4,401,144			Y	A
A in MTEP10	West	GRE	2567	4572	10/31/2012	Northport	Northport Tap	1	115			New Distribution	MN		1	Planned	\$1,149,664			Y	A
A in MTEP10	West	GRE	2570	4581	6/2/2014	Ravenna	Ravenna Tap	1	161			New Distribution	MN		0	Planned	\$821,206			Y	A
A in MTEP10	West	GRE	2574	4586	5/1/2017	St. Lawrence	St. Lawrence Tap	1	115			St. Lawrence 69 kV 3-way switch	MN		0.5	Planned	\$374,182			Y	A
A in MTEP10	West	GRE	2576	4587	11/1/2011	Pokegama	Pokegama Tap	1	115			New Distribution	MN		8	Under Construction	\$4,079,993			Y	A
A in MTEP10	West	GRE	2577	4588	6/1/2012	Elmcrest	Elmcrest Tap	1	69			New Distribution	MN		0	Planned	\$140,000			NT	A
A in MTEP10	West	GRE	2579	4590	5/29/2015	Foster Lake	Foster Lake Tap	1	69			New Distribution	MN		0	Planned	\$140,000			NT	A
A in MTEP10	West	GRE	2589	4600	3/25/2014	Rich Valley	Rich Valley Tap	1	69			New Distribution	MN		2	Planned	\$115,001			NT	A
A in MTEP10	West	GRE	2605	4616	4/30/2012	Bunker Lake Bulk	Substation	1	69			New Distribution	MN		0	Planned	\$208,450			NT	A
A in MTEP10	West	GRE	2621	4628	11/1/2013	Effie	Big Fork	1	69		108	Effie-Big Fork 69 kV line, Wirt Tap 3-way switch, Jessie Lake 3-way switch, Big Fork 3-way switch	MN		19	Planned	\$8,107,919			NT	A
A in MTEP10	West	GRE	2621	4627	11/1/2013	Effie	transformer	1	230	69	60		MN			Planned	\$2,420,000			Y	A
A in MTEP10	West	GRE	2624	4631	2/29/2012	Hudson	Hudson Tap	1	115		141.6		MN	0.5	Under Construction	\$381,006			Y	A	
A in MTEP10	West	GRE	2630	4640	4/24/2013	Big Fork	Wirt Tap	1	69	35		Resag	MN	7.16		Planned	\$572,622			NT	A
A in MTEP10	West	GRE	2630	4641	4/24/2013	Wirt Tap	Jessie Lake	1	69	35		Resag	MN	8.97		Planned	\$717,377			NT	A
A in MTEP10	West	GRE	2631	4642	4/24/2013	Deer River	Jessie Lake	1	69	58.8		Resag	MN	16.52		Planned	\$1,339,996			NT	A
A in MTEP10	West	GRE	2667	4684	9/30/2011	Rush City	Adrian Robinson	1	69	58.8		Rush City distribution retemp	MN	3.15		Planned	\$299,001			NT	A
A in MTEP10	West	GRE	2670	4687	4/14/2020	Schuster Lake	transformer	1	115	41.6	70	North Perham land acquisition and 115/41.6 kV source	MN			Planned	\$4,480,714			Y	A
A in MTEP10	West	GRE	2671	4634	12/30/2011	Ham Lake	Soderville	1	69	75.8		Retemp	MN	0.38		Planned	\$125,000			NT	A
A in MTEP10	West	GRE	2671	4633	12/30/2011	Ham Lake	Johnsville	1	69	75.8		Retemp	MN	5.8		Planned	\$157,809			NT	A
A in MTEP10	West	GRE	2672	4688	11/1/2011	Rush City	transformer	1	230	69	112	Bunker Lake transformer moved to Rush City	MN			Planned	\$300,000			Y	A
A in MTEP10	West	GRE	2672	4689	6/1/2012	Bear Creek	transformer	1	230	69	84	Rush City move to Bear Creek	MN			Planned	\$200,000			Y	A
A in MTEP10	West	GRE	2731	4750	9/3/2012	Blomkest	Lake Lillian Tap	1	69			New Distribution	MN		2	Planned	\$1,140,342			NT	A
A in MTEP10	West	GRE	2833	4979	10/21/2013	South Haven	Lake Caroline	1	69	68		New Line	MN		1	Planned	\$675,000			Y	A
A in MTEP10	West	GRE	2834	4980	9/10/2013	Paynesville	Hawick	1	69	85		New Line	MN		5	Planned	\$5,138,000			Y	A
A in MTEP10	West	GRE	3106	5441	9/3/2012	Tamarac	Substation	1	115			Breaker for G619 plant wind farm connection	MN			Planned	\$728,000	Y		Y	A
A in MTEP09	West	GRE	2562	6513	3/30/2012	Pleasant Valley				161		161 kV bus work. 161 kV Breaker and half scheme.	MN			Planned	\$1,006,365			Y	A
A in MTEP09	West	GRE	2563	4579	11/30/2012	Martin Lake	Athens	1	69	135.9		System upgrades and permitting	MN		10	Planned	\$6,234,719			NT	A
A in MTEP05	West	GRE	599	753	6/1/2013	Crooked Lake	Enterprise Park	1	115	316		New 115 kV line	MN		4	Planned	\$8,616,069			Y	A
A in MTEP05	West	GRE	600	1078	6/1/2012	Scearcyville	Southdale	1	115	196		New line	MN		9	Under Construction	\$5,845,969			Y	A
A in MTEP08	West	GRE, OTP	1033	587	10/28/2011	Silver Lake 230/41.6 kV	transformer	1	230	41.6	50		MN			Under Construction	\$3,230,626			Y	A
A in MTEP08	West	GRE, XEL, OTP, N	286	2976	12/15/2011	Quarry (St. Cloud)	345/115 transformer	1	345	115	448	new transformer and terminal works	MN			Planned	\$7,367,000	Y		Y	A
A in MTEP08	West	GRE, XEL, OTP, N	286	2640	12/15/2011	Waite Park (Quarry)	Monticello	1	345	2085		Add a new 345 kV line from Waite Park to Monticello substation and terminal works	MN		35	Planned	\$84,972,000	Y	Y	Y	A
A in MTEP08	West	GRE, XEL, OTP, N	286	6328	12/15/2011	Monticello	substation	1	345	115		Improvements to the existing Monticello substation to accommodate new CAPX Fargo 345 kV line	MN			Planned	\$9,755,500			Y	A
A in MTEP08	West	GRE, XEL, OTP, N	286	1104	5/7/2013	Alexandria SS	Waite Park (Quarry)	1	345	2085		Add a new 345 kV line from Alexandria Switching Station to Waite Park and terminal works	MN		55	Planned	\$133,666,500	Y	Y	Y	A
A in MTEP08	West	GRE, XEL, OTP, N	286	2641	5/7/2013	Alexandria SS	Transformer	1	345	115	448	new transformer and terminal works	MN			Planned	\$6,500,000	Y		Y	A
A in MTEP08	West	GRE, XEL, OTP, N	286	1105	3/31/2015	Bison	Alexandria SS	1	345	2085		Add a new 345 kV line from Maple River to Alexandria Switching Station substation and terminal works	MN/ND		135	Planned	\$288,050,000	Y	Y	Y	A
A in MTEP08	West	GRE, XEL, OTP, N	286	6514	3/31/2015	Bison	substation	1	345	230	448	New substation	ND			Planned	\$34,436,000			Y	A
A in MTEP10	West	ITCM	3046	5262	12/31/2012	Beverly 161kV	Main and Line Breakers		69		143 MVA	Add main breaker and 2 line breakers	IA	0	0	Planned	\$1,500,000			Y	A

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Target Appendix	Region	Geographic Location by ITO Member System	ProjID	Facility ID	Expected JSB	From Sub	To Sub	Ckt	Max kV	MVA	Facility Rating	Facility Description	State	Miles Upg	Miles New	Plan Status	Estimated Cost	Cost Shared	Postage Stamp	MISO Facility	App ABC
A in MTEP10	West	ITCM	3046	5263	12/31/2012	26th Jct	Beverly T4	1	69		140 MVA	Open 26th Jct to Viola's Corner line and extend 26th Jct to open point into the Beverly substation	IA	0	0.1	Planned	\$150,000			Y	A
A in MTEP10	West	ITCM	3046	5264	12/31/2012	Viola's Corner	Beverly T4	1	69		140 MVA	Open 26th Jct to Viola's Corner line and extend Viola's Corner to open point into the Beverly substation	IA	0	0.1	Planned	\$150,000			Y	A
A in MTEP10	West	ITCM	3047	5265	8/30/2011	Iowa Falls Industrial	transformer	1	161	69	112 MVA	Upgrade the IA Falls Ind 115/69kV TRF with a dual high side (161-115kV)/69kV TRF.	IA	0	0	Planned	\$1,980,000			Y	A
A in MTEP10	West	ITCM	3048	5266	12/31/2013	Jefferson Co	Perlee	1	69	69	57 MVA	Rebuild Jefferson Co-Perlee line	IA	7.378	0	Planned	\$2,700,000			Y	A
A in MTEP10	West	ITCM	3049	5300	12/31/2012	Huxley Industrial Park	Breaker	1	161	161	335 MVA	Add a 161kV line terminal to tie to the rerouted Boone Jct-Huxley Park Ind 161kV line (CIPCO project).	IA	0	0	Planned	\$750,000			Y	A
A in MTEP10	West	ITCM	3050	5272	12/31/2011	CBPC Alden	new Alden-Buckeye	1	69	69		Build a 3 mile 69kV tap to the new Alden-Buckeye sub.	IA	0	3	Planned	\$1,080,000			Y	A
A in MTEP10	West	ITCM	3052	5271	12/31/2011	Washington	Substation	1	69	69		Upgrade Washington 69kV sub & add bus tie breaker.	IA	0	0	Planned	\$2,400,000			Y	A
A in MTEP10	West	ITCM	3053	5297	12/31/2013	Commercial	Carbide	1	69	69	100 MVA	Rebild to double ckt 69kV	IA			Planned	\$540,000			Y	A
A in MTEP10	West	ITCM	3053	5295	12/31/2013	Keokuk Hydro	Messenger	1	69	69	100 MVA	Rebild to double ckt 69kV	IA			Planned	\$540,000			Y	A
A in MTEP10	West	ITCM	3053	5296	12/31/2013	Messenger	Commercial	1	69	69	100 MVA	Rebild to double ckt 69kV	IA			Planned	\$540,000			Y	A
A in MTEP10	West	ITCM	3053	5294	12/31/2013	Keokuk Hydro	Carbide	1	69	69	100 MVA	Build a new Keokuk Hydro-Carbide 69 kV line.	IA			Planned	\$1,620,000			Y	A
A in MTEP10	West	ITCM	3054	5270	12/31/2011	Amana	Amana T	1	69	69		Close N.O. Amana-Amana T line.	IA	0	0	Planned	\$0			Y	A
A in MTEP10	West	ITCM	3054	5268	12/31/2011	Swisher	Swisher REC	1	69	69		Close N.O. Swisher-Swisher REC line.	IA	0	0	Planned	\$352,000			Y	A
A in MTEP10	West	ITCM	3054	5267	12/31/2011	Tharp (Swisher)	Breaker Station	1	69	69		Build a new 3 terminal breaker station.	IA	0	0	Planned	\$1,800,000			Y	A
A in MTEP10	West	ITCM	3054	5269	12/31/2011	North Liberty	North Liberty REC	1	69	69		Close N.O. North Liberty-North Liberty REC line.	IA	0	0	Planned	\$0			Y	A
A in MTEP10	West	ITCM	3055	5280	12/31/2011	Marion	Collins	1	69	69		Rebuild 34kV to 69kV(operate at 34kV until 69kV/dist subs are ready)	IA	2.5		Planned	\$700,000			Y	A
A in MTEP10	West	ITCM	3055	5281	12/31/2011	Collins	Hiawatha	1	69	69		Rebuild 34kV to 69kV(operate at 34kV until 69kV/dist subs are ready)	IA	1		Planned	\$700,000			Y	A
A in MTEP10	West	ITCM	3055	5288	12/31/2012	Downtown Network	Substation	1	161	161		New 115kV/dist sub	IA			Planned	\$2,160,000			Y	A
A in MTEP10	West	ITCM	3055	5286	12/31/2012	Downtown Network	PCI	1	161	161		Rebuild 34kV to 161kV	IA	5		Planned	\$2,100,000			Y	A
A in MTEP10	West	ITCM	3055	5285	12/31/2012	Downtown Industrial	Downtown Network	1	161	161		Rebuild 34kV to 161kV	IA	2		Planned	\$2,100,000			Y	A
A in MTEP10	West	ITCM	3055	5283	12/31/2013	Oak Hill	Marion	1	69	69		Rebuild 34kV to 69kV(operate at 34kV until 69kV/dist subs are ready)	IA	8		Planned	\$1,010,000			Y	A
A in MTEP10	West	ITCM	3055	5278	12/31/2013	Emerald Isle	Cargil West	1	69	69		Rebuild 34kV to 69kV(operate at 34kV until 69kV/dist subs are ready)	IA	4		Planned	\$810,000			Y	A
A in MTEP10	West	ITCM	3055	5282	12/31/2013	PCI	Oak Hill	1	69	69		Rebuild 34kV to 69kV(operate at 34kV until 69kV/dist subs are ready)	IA	5		Planned	\$1,010,000			Y	A
A in MTEP10	West	ITCM	3055	5277	12/31/2013	Emerald Isle	Louisa	1	69	69		Rebuild 34kV to 69kV(operate at 34kV until 69kV/dist subs are ready)	IA	3		Planned	\$740,000			Y	A
A in MTEP10	West	ITCM	3055	5276	12/31/2013	Marion	Emerald Isle	1	69	69		Rebuild 34kV to 69kV(operate at 34kV until 69kV/dist subs are ready)	IA	3		Planned	\$740,000			Y	A
A in MTEP10	West	ITCM	3055	5279	12/31/2013	Cargil West	PCI	1	69	69		Rebuild 34kV to 69kV(operate at 34kV until 69kV/dist subs are ready)	IA	6		Planned	\$810,000			Y	A
A in MTEP10	West	ITCM	3055	5289	12/31/2013	Marion	transformer	1	161	69	100 MVA	Add a 161/69kV TRF at Marion	IA			Planned	\$3,240,000			Y	A
A in MTEP10	West	ITCM	3055	5293	12/31/2013	Oak Hill	Substation	1	69			New 69kV/dist sub	IA			Planned	\$2,160,000			Y	A
A in MTEP10	West	ITCM	3055	5291	12/31/2014	Cargil West	Substation	1	69	69		New 69kV/dist sub	IA			Planned	\$2,160,000			Y	A
A in MTEP10	West	ITCM	3055	5290	12/31/2014	Collins	Substation	1	69	69		New 69kV/dist sub	IA			Planned	\$2,160,000			Y	A
A in MTEP10	West	ITCM	3055	5292	12/31/2014	Emerald Isle	Substation	1	69	69		New 69kV/dist sub	IA			Planned	\$2,160,000			Y	A
A in MTEP10	West	ITCM	3056	5298	12/31/2012	Grundy Center	Reinbeck	1	69	69		Rebuild 34kV to 69kV	IA	12	0	Planned	\$4,320,000			Y	A
A in MTEP10	West	ITCM	3056	5299	12/31/2012	Reinbeck	Hicks tap	1	69	69		Rebuild 34kV to 69kV	IA	4	0	Planned	\$1,440,000			Y	A
A in MTEP10	West	ITCM	3057	5303	12/31/2013	Moscow Tap	Magmet T	1	69	69		Tap the Muscatine Switch Station to Magmet T69kV line for new tap to Moscow.	IA	0	0	Planned	\$0			Y	A
A in MTEP10	West	ITCM	3057	5304	12/31/2013	New Liberty	New Liberty Tap	1	69	69	77 MVA	Build a new 2 mile 69kV tap to New Liberty & retire 9.4 mile 34kV tap.	IA	0	2	Planned	\$700,000			Y	A
A in MTEP10	West	ITCM	3057	5302	12/31/2013	Muscatine Switch Station	Moscow Tap	1	69	69		Tap the Muscatine Switch Station to Magmet T69kV line for new tap to Moscow.	IA	0	0	Planned	\$0			Y	A

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Target Appendix	Region	Geographic Location by ITC Member System	Proj ID	Facility ID	Expected/SD	From Sub	To Sub	Qkt	Max kV	Min kV	Facility Rating	Facility Description	State	Miles Upr	Miles New	Plan Status	Estimated Cost	Cost Shared	Postage Stamp	MISO Facility	App A/B/C
A in MTEP10	West	ITCM	3057	5301	12/31/2013	Moscow	Moscow Tap	1	69	69	77 MVA	Build a new 3.75 mile 69kV tap to Moscow & retire 7 mile 34kV tap.	IA	0	3.75	Planned	\$1,313,000			Y	A
A in MTEP10	West	ITCM	3057	6419	12/31/2013	New Liberty	New Liberty Tap	1	34	34		Retire the New Liberty 34kV 9.4 mile tap	IA			Planned	\$282,000			Y	A
A in MTEP10	West	ITCM	3057	6418	12/31/2013	Moscow Tap	Moscow	1	34	34		Retire the Moscow 34kV 7 mile tap	IA			Planned	\$210,000			Y	A
A in MTEP10	West	ITCM	3058	5319	12/31/2011	Shady Grove REC	Substation	1	69	69		New 69kV/dist sub	IA			Planned	\$0			Y	A
A in MTEP10	West	ITCM	3058	5310	12/31/2011	Quasqueton Tap	Quasqueton REC	1	69	69		Rebuild 34kV to 69kV	IA	4	0	Planned	\$1,440,000			Y	A
A in MTEP10	West	ITCM	3058	5309	12/31/2011	Brandon	Shady Grove REC	1	69	69		Rebuild 34kV to 69kV	IA	4.5	0	Planned	\$1,980,000			Y	A
A in MTEP10	West	ITCM	3058	5320	12/31/2011	Quasqueton REC	Substation	1	69	69		New 69kV/dist sub	IA			Planned	\$0			Y	A
A in MTEP10	West	ITCM	3058	5318	12/31/2011	Brandon	Substation	1	69	69		New 69kV/dist sub	IA			Planned	\$0			Y	A
A in MTEP10	West	ITCM	3058	5307	12/31/2012	Shellsburg	Palo	1	69	69		Rebuild 34kV to 69kV	IA	4	0	Planned	\$1,620,000			Y	A
A in MTEP10	West	ITCM	3058	5311	12/31/2012	Troy Mills	Walker REC	1	69	69		Rebuild 34kV to 69kV	IA	6.55		Planned	\$2,358,000			Y	A
A in MTEP10	West	ITCM	3058	5322	12/31/2012	Lafayette	Substation	1	69	69		New 69kV/dist sub	IA			Planned	\$0			Y	A
A in MTEP10	West	ITCM	3058	5315	12/31/2012	Vinton	transformer	1	161	69	100 MVA	Add a 161/69kV TRF at Vinton	IA			Planned	\$3,250,000			Y	A
A in MTEP10	West	ITCM	3058	5316	12/31/2012	Palo	Substation	1	69	69		New 69kV/dist sub	IA			Planned	\$0			Y	A
A in MTEP10	West	ITCM	3058	5317	12/31/2012	Shellsburg	Substation	1	69	69		New 69kV/dist sub	IA			Planned	\$0			Y	A
A in MTEP10	West	ITCM	3058	5314	12/31/2012	Lafayette	Hiawatha	1	69	69		Rebuild 34kV to 69kV	IA	6		Planned	\$2,160,000			Y	A
A in MTEP10	West	ITCM	3058	5323	12/31/2013	Urbana	Substation	1	69	69		New 69kV/dist sub	IA			Planned	\$0			Y	A
A in MTEP10	West	ITCM	3058	5308	12/31/2013	Palo	Todville REC	1	69	69		New 69kV	IA	0	4.5	Planned	\$1,260,000			Y	A
A in MTEP10	West	ITCM	3058	5312	12/31/2013	Vinton	Shellsburg	1	69	69		Rebuild 34kV to 69kV	IA	11		Planned	\$4,320,000			Y	A
A in MTEP10	West	ITCM	3058	5313	12/31/2013	Walker REC	Urbana	1	69	69		Rebuild 34kV to 69kV	IA	10		Planned	\$3,600,000			Y	A
A in MTEP10	West	ITCM	3058	5321	12/31/2013	Walker REC	Substation	1	69	69		New 69kV/dist sub	IA			Planned	\$0			Y	A
A in MTEP10	West	ITCM	3059	5325	12/31/2011	West Liberty	Breaker Station	1	69	69	140 MVA	Build a new 3 terminal breaker station.	IA	0	0	Planned	\$1,560,000			Y	A
A in MTEP10	West	ITCM	3059	5324	12/31/2011	West Branch	Breaker Station	1	69	69	140 MVA	Build a new 3 terminal breaker station.	IA	0	0	Planned	\$1,560,000			Y	A
A in MTEP09	West	ITCM	2339	4286	9/30/2011	Ames	Fernald	1	161		446 MVA	Rebuild 115kV to 161kV line	IA	6		Under Construction	\$4,200,000	Y		Y	A
A in MTEP09	West	ITCM	2339	4285	11/30/2011	Boone Junction	Ames	1	161		446 MVA	Rebuild 115kV to 161kV line	IA	8.4		Under Construction	\$5,880,000	Y		Y	A
A in MTEP09	West	ITCM	2339	4284	5/30/2012	Boone Junction	Boone Junction	1	161		446 MVA	Rebuild 115kV to 161kV line	IA	5.2		Planned	\$3,640,000	Y		Y	A
A in MTEP09	West	ITCM	2340	4296	12/31/2011	Grand Junction	Grand Junction City	1	34		39/39 MVA	Rebuild 34kV to 69kV (operated 34kV)	IA	2.75		Planned	\$639,200			NT	A
A in MTEP09	West	ITCM	2340	4297	12/31/2011	Grand Junction City	Grand Junction North	1	34		39/39 MVA	Rebuild 34kV to 69kV (operated 34kV)	IA	2		Planned	\$464,327			NT	A
A in MTEP09	West	ITCM	2341	4331	9/1/2011	Amber	Monticello Industrial	1	69		77/77 MVA	Rebuild 34kV to 69kV	IA	8.51		Under Construction	\$2,291,032			NT	A
A in MTEP09	West	ITCM	2341	4332	9/1/2011	Amber	breakers		69			Add two 69kV breakers at the Amber Creamery sub.	IA			Under Construction	\$185,000			NT	A
A in MTEP09	West	ITCM	2341	4333	9/1/2011	Sand Springs	breaker		69			Add a Sand Springs 69kV breaker and operate the Sand Springs-Monticello Industrial-Amber line at 69kV.	IA			Under Construction	\$340,000			NT	A
A in MTEP09	West	ITCM	2341	4334	9/1/2011	Monticello Industrial	breaker		69			Add a Monticello Industrial 69kV bus tie breaker and 69kV line breakers on the Sand Springs and Amber Creamery 69kV lines.	IA			Under Construction	\$364,000			NT	A
A in MTEP09	West	ITCM	2341	4335	10/30/2011	Lovell REC Tap	Lovell REC Junction	1	34		39/39 MVA	Rebuild the remaining 2.21 miles of the 4.14 mile Lovell REC Tap-Lovell Junction 34kV line to 69kV standards. This line section will continue operation at 34kV. Monticello Industrial-Lovell REC 34kV line N.O.	IA	2.21		Under Construction	\$594,968			NT	A
A in MTEP09	West	ITCM	2342	4303	12/31/2011	Ridgeport REC	Boone Junction	1	34		39/39 MVA	Rebuild 6 miles of 34kV to 69kV (operated 34kV) from the Ridgeport REC sub south towards Boone Jct.	IA	6		Under Construction	\$1,588,515			NT	A
A in MTEP09	West	ITCM	2342	4301	12/31/2011	Stratford REC Tap	Stratford REC Tap	1	34		39/39 MVA	Rebuild 34kV to 69kV (operated 34kV)	IA	5		Under Construction	\$1,323,762			NT	A
A in MTEP09	West	ITCM	2342	4302	12/31/2011	Stratford REC Tap	Ridgeport REC	1	34		39/39 MVA	Rebuild 34kV to 69kV (operated 34kV)	IA	5		Under Construction	\$1,323,762			NT	A
A in MTEP09	West	ITCM	2342	4300	12/31/2011	Jewell	Stratford REC Tap	1	34		39/39 MVA	Rebuild 34kV to 69kV (operated 34kV)	IA	9.25		Under Construction	\$2,448,961			NT	A
A in MTEP09	West	ITCM	2343	4307	12/31/2011	Mid-America Pump Tap	IA Valley Milling Tap	1	34		39/39 MVA	Rebuild 34kV to 69kV (operated 34kV)	IA	0.5		Planned	\$302,891			NT	A
A in MTEP09	West	ITCM	2343	4304	12/31/2011	West Branch	Mid-America Storage	1	34		39/39 MVA	Rebuild 34kV to 69kV (operated 34kV)	IA	2		Planned	\$550,710			NT	A
A in MTEP09	West	ITCM	2343	4308	12/31/2011	IA Valley Milling Tap	IA Valley Milling Sub	1	34		39/39 MVA	Rebuild 34kV to 69kV (operated 34kV)	IA	1.1		Planned	\$137,678			NT	A

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A in MTEP09	West	ITCM	2343	4305	12/31/2011	Mid-America Storage	Mid-America Pump Tap	1	34		39/39 MVA	Rebuild 34kV to 69kV (operated 34kV)	IA	2		Planned	\$550,710			NT	A
A in MTEP09	West	ITCM	2343	4309	12/31/2011	IA Valley Milling Tap	West Liberty	1	34		39/39 MVA	Rebuild 34kV to 69kV (operated 34kV)	IA	8.21		Planned	\$2,260,667			NT	A
A in MTEP09	West	ITCM	2343	4306	12/31/2011	Mid-America Pump Tap	Mid-America Pump Station	1	34		39/39 MVA	Rebuild 34kV to 69kV (operated 34kV)	IA	1.25		Planned	\$344,194			NT	A
A in MTEP09	West	ITCM	2344	4311	12/31/2012	Dome Pipeline	Oxford Mills	1	34		39/39 MVA	Rebuild 34kV to 69kV (operated 34kV)	IA	5		Planned	\$1,675,000			NT	A
A in MTEP09	West	ITCM	2344	4310	12/31/2012	Wyoming	Dome Pipeline	1	34		39/39 MVA	Rebuild 34kV to 69kV (operated 34kV)	IA	2.3		Planned	\$770,500			NT	A
A in MTEP09	West	ITCM	2344	4312	12/31/2012	Oxford Mills	Massilon	1	34		39/39 MVA	Rebuild 34kV to 69kV (operated 34kV)	IA	4.7		Planned	\$1,574,500			NT	A
A in MTEP09	West	ITCM	2345	4326	12/31/2012	Union	Whitten	1	34		39/39 MVA	Rebuild 34kV to 69kV (operated 34kV)	IA	5.25		Under Construction	\$1,521,822			NT	A
A in MTEP09	West	ITCM	2345	4313	12/31/2012	Otter Creek (Eldora North)	new switching station		69			Construct a new 4-terminal 69kV switching station along the Corn Belt 69kV line. Switch station will be named Otter Creek.	IA			Under Construction	\$1,658,000			NT	A
A in MTEP09	West	ITCM	2345	4330	12/31/2012	Beaman	Gladbrook T	1	34		39/39 MVA	Rebuild 34kV to 69kV (operated 34kV)	IA	3.5		Under Construction	\$1,014,550			NT	A
A in MTEP09	West	ITCM	2345	4329	12/31/2012	Conrad distribution	Beaman	1	34		39/39 MVA	Rebuild 34kV to 69kV (operated 34kV)	IA	2.25		Under Construction	\$652,210			NT	A
A in MTEP09	West	ITCM	2345	4328	12/31/2012	Conrad 69/34kV	Conrad distribution	1	34		39/39 MVA	Rebuild 34kV to 69kV (operated 34kV)	IA	5.05		Under Construction	\$1,463,848			NT	A
A in MTEP09	West	ITCM	2345	4327	12/31/2012	Whitten	Conrad 69/34kV	1	34		39/39 MVA	Rebuild 34kV to 69kV (operated 34kV)	IA	4.8		Under Construction	\$1,391,380			NT	A
A in MTEP09	West	ITCM	2345	4325	12/31/2012	CBPC Union	Union	1	34		39/39 MVA	Rebuild 34kV to 69kV (operated 34kV)	IA	1.5		Under Construction	\$434,806			NT	A
A in MTEP09	West	ITCM	2345	4324	12/31/2012	Airport East Tap	CBPC Union	1	34		39/39 MVA	Rebuild 34kV to 69kV (operated 34kV)	IA	4.29		Under Construction	\$1,243,546			NT	A
A in MTEP09	West	ITCM	2345	4323	12/31/2012	New Eldora North Switching	Airport East Tap	1	34		39/39 MVA	Rebuild 34kV to 69kV (operated 34kV)	IA	4.5		Under Construction	\$1,304,419			NT	A
A in MTEP09	West	ITCM	2345	4322	12/31/2012	IPL Radcliffe Sub	substation		34			Retire IPL Garden City Sub	IA			Under Construction	\$0			NT	A
A in MTEP09	West	ITCM	2345	4314	12/31/2012	CBPC Radcliffe Switch Station	Hubbard Rural	1	69		77/77 MVA	Operate at 69kV (already built to 69kV standards)	IA			Under Construction	\$0			NT	A
A in MTEP09	West	ITCM	2345	4320	12/31/2012	IPL Radcliffe 34kV/dist Sub	substation		34			Retire IPL Radcliffe Sub	IA			Under Construction	\$0			NT	A
A in MTEP09	West	ITCM	2345	4319	12/31/2012	CBPC Enron	substation		34			CBPC Enron Sub 34 to 69kV conversion	IA			Under Construction	\$0			NT	A
A in MTEP09	West	ITCM	2345	4318	12/31/2012	IPL Hubbard Rural 69kV/dist Sub	substation		34			IPL Hubbard Rural Sub 34 to 69kV conversion	IA			Under Construction	\$0			NT	A
A in MTEP09	West	ITCM	2345	4317	12/31/2012	Eldora City Sub	New Eldora North Switching	1	69		77/77 MVA	Rebuild 34kV to 69kV	IA	2		Under Construction	\$579,755			NT	A
A in MTEP09	West	ITCM	2345	4316	12/31/2012	Enron Tap	Eldora City Sub	1	69		77/77 MVA	Rebuild 34kV to 69kV	IA	14.5		Under Construction	\$4,203,129			NT	A
A in MTEP09	West	ITCM	2345	4315	12/31/2012	Hubbard Rural	Enron Tap	1	69		77/77 MVA	Rebuild 34kV to 69kV	IA	3.6		Under Construction	\$1,043,535			NT	A
A in MTEP09	West	ITCM	2345	4321	12/31/2012	IPL Hubbard 34kV/dist. Sub	substation		34			Retire IPL Hubbard Sub	IA			Under Construction	\$0			NT	A
A in MTEP09	West	ITCM	2348	4341	12/31/2011	Beaver Rock	new switching station	1	69			Construct a new 3-terminal 69kV switching station along the Beaver Channel-Rock Creek 69kV line.	IA			Under Construction	\$1,553,178			NT	A
A in MTEP09	West	ITCM	2348	4340	12/31/2011	Beaver Rock	Beaver Channel	1	69		103/103 MVA	Tap Beaver Channel-Rock Creek 69kV for new switching station.	IA			Under Construction	\$20,000			NT	A
A in MTEP09	West	ITCM	2348	4338	12/31/2011	Beaver Rock	Comanche Tap	1	69		77/77 MVA	Tie new CIPCO 69kV line from Comanche REC to Beaver Rock.	IA	0.75		Under Construction	\$0			NT	A
A in MTEP09	West	ITCM	2348	4339	12/31/2011	Beaver Rock	Rock Creek	1	69		130/130 MVA	Tap Beaver Channel-Rock Creek 69kV for new switching station. The Rock Creek-Beaver Rock 69kV line will be N.O.	IA			Under Construction	\$20,000			NT	A
A in MTEP09	West	ITCM	2353	4344	12/31/2011	Big River Breaker(Hunt Woods) Station	new switching station		69			Construct a new 3-terminal 69kV switching station where the Big River REC line taps the Agency-Sawyer 69kV line.	IA			Planned	\$1,666,427			NT	A

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

Target Appendix	Region	Geographic Location by TO Member System	Proj ID	Facility ID	Expected ASD	From Sub	To Sub	Ckt	Max kV	Min kV	Facility Rating	Facility Description	State	Miles Bgn	Miles New	Plan Status	Estimated Cost	Cost Shared	Postage Stamp	MISO Facility	App ABG
A in MTEP09	West	ITCM	2357	4389	12/31/2013	Fairbank	new switching station	1	69			Construct a new 3-terminal 69kV switching station, at the existing Fairbank substation.	IA			Planned	\$1,522,187			NT	A
A in MTEP09	West	ITCM	2357	4390	12/31/2013	Fairbank Tap	Fairbank Switching station	1	69		77/77 MVA	Rebuild the 2.9 mile tap from the new Fairbank SS-Fairbank Tap to double circuit..	IA	2.9		Planned	\$1,370,000			NT	A
A in MTEP09	West	ITCM	2357	4391	12/31/2013	Fairbank Switching Station	Hazleton	1	69		77/77 MVA	Build new 69kV line from the Fairbank sub to the existing Hazleton-Oelwein 69kV line.	IA	5		Planned	\$2,262,198			NT	A
A in MTEP09	West	ITCM	2357	6417	12/31/2013	Tripoli	substation		69			Reset the existing 69kV relays at Tripoli	IA			Planned	\$10,000			Y	A
A in MTEP09	West	ITCM	2357	6416	12/31/2013	Hazleton	substation		69			Upgrade the Hazleton 69kV terminal	IA			Planned	\$500,000			Y	A
A in MTEP09	West	ITCM	2357	6415	12/31/2013	Hazleton	Oelwein		69			Retire portion of the Hazleton-Oelwein 69kV line not needed after the Fairbank 69kV loop is created.	IA			Planned	\$67,000			Y	A
A in MTEP09	West	ITCM	2358	4352	12/31/2013	Hazleton	Blackhawk	1	161		326/326 MVA	Rebuild existing line	IA	12		Planned	\$5,400,000	Y		Y	A
A in MTEP09	West	ITCM	2363	4385	8/30/2011	Glenworth 161/69kV	new substation	1	161	69		Construct a new Glenworth 161/69kV 100 MVA substation near the junction of the Hayward-Worth County 161kV line and the DPC Hayward-Twin Lakes 69kV line.	MN			Under Construction	\$7,240,605			Y	A
A in MTEP09	West	ITCM	2364	4386	12/31/2011	Bricelyn	Thompson	1	69		77/77 MVA	Rebuild 2 miles of the N.O. 69kV Bricelyn tap-Thompson tap to double circuit 69kV line to allow for 2 separate circuits.	IA	2		Planned	\$230,000			NT	A
A in MTEP09	West	ITCM	2364	4904	12/31/2011	Lincoln REC Tap (DPC)	Golden Oval (DPC)	1	69		18 MVA	Rebuild 2 miles of the N.O. 69kV Bricelyn tap-Thompson tap to double circuit 69kV line to allow for 2 separate circuits.	IA		2	Planned	\$230,000			NT	A
A in MTEP09	West	ITCM	2367	4366	12/31/2013	Stuart Muni Tap	Dexter	1	34		39/39 MVA	Rebuild the 34kV line to 69kV (operate at 34kV).	IA	4.75		Planned	\$1,187,500			NT	A
A in MTEP09	West	ITCM	2367	4365	12/31/2013	Stuart REC Tap	Stuart Muni Tap	1	34		39/39 MVA	Rebuild the 34kV line to 69kV (operate at 34kV).	IA	1.6		Planned	\$400,000			NT	A
A in MTEP09	West	ITCM	2367	4368	12/31/2013	Diamondhead REC	Redfield	1	34		39/39 MVA	Rebuild the 34kV line to 69kV (operate at 34kV).	IA	2.55		Planned	\$637,500			NT	A
A in MTEP09	West	ITCM	2367	4364	12/31/2013	Menlo	Stuart REC Tap	1	34		39/39 MVA	Rebuild the 34kV line to 69kV (operate at 34kV).	IA	4.28		Planned	\$1,070,000			NT	A
A in MTEP09	West	ITCM	2367	4363	12/31/2013	Thompson	Menlo	1	34		39/39 MVA	Rebuild the 34kV line to 69kV (operate at 34kV).	IA	5.5		Planned	\$1,375,000			NT	A
A in MTEP09	West	ITCM	2367	4362	12/31/2013	Anita-Wiota	Adair	1	34		39/39 MVA	Rebuild 1.2 miles of the Anita-Wiota-Adair line.	IA	1.2		Planned	\$300,000			NT	A
A in MTEP09	West	ITCM	2367	4367	12/31/2013	Dexter	Diamondhead REC	1	34		39/39 MVA	Rebuild the 34kV line to 69kV (operate at 34kV).	IA	3.2		Planned	\$800,000			NT	A
A in MTEP09	West	ITCM	2367	4360	12/31/2013	Anita 161kV	Exira REC	1	34		39/39 MVA	Rebuild the 34kV line to 69kV (operate at 34kV).	IA	5		Planned	\$1,250,000			NT	A
A in MTEP09	West	ITCM	2367	4361	12/31/2013	Anita 161kV	Anita-Wiota	1	34		39/39 MVA	Rebuild the 34kV line to 69kV (operate at 34kV).	IA	3.5		Planned	\$875,000			NT	A
A in MTEP09	West	ITCM	2369	4372	12/31/2013	Walford	Norway Tap	1	34		39/39 MVA	Rebuild the 34kV line to 69kV (operate at 34kV).	IA	3.3		Planned	\$855,100			NT	A
A in MTEP09	West	ITCM	2369	4379	12/31/2013	Conroy Junction	Williamsburg 115kV	1	34		39/39 MVA	Rebuild the 34kV line to 69kV (operate at 34kV).	IA	2.5		Planned	\$647,805			NT	A
A in MTEP09	West	ITCM	2369	4378	12/31/2013	Marengo REC	Conroy Junction	1	34		39/39 MVA	Rebuild the 34kV line to 69kV (operate at 34kV).	IA	5		Planned	\$1,295,608			NT	A
A in MTEP09	West	ITCM	2369	4376	12/31/2013	Pioneer Tap	Marengo South	1	34		39/39 MVA	Rebuild the 34kV line to 69kV (operate at 34kV).	IA	0.25		Planned	\$64,780			NT	A
A in MTEP09	West	ITCM	2369	4373	12/31/2013	Walford	Marengo North Tap	1	34		39/39 MVA	Rebuild the 34kV line to 69kV (operate at 34kV).	IA	8.22		Planned	\$2,129,980			NT	A
A in MTEP09	West	ITCM	2369	4374	12/31/2013	Marengo North Tap	Marengo East	1	34		39/39 MVA	Rebuild the 34kV line to 69kV (operate at 34kV).	IA	0.57		Planned	\$147,700			NT	A
A in MTEP09	West	ITCM	2369	4371	12/31/2013	Fairfax REC	Walford	1	34		39/39 MVA	Rebuild the 34kV line to 69kV (operate at 34kV).	IA	4.5		Planned	\$1,166,047			NT	A
A in MTEP09	West	ITCM	2369	4370	12/31/2013	Fairfax dist.	Fairfax REC	1	34		39/39 MVA	Rebuild the 34kV line to 69kV (operate at 34kV).	IA	0.5		Planned	\$129,560			NT	A
A in MTEP09	West	ITCM	2369	4369	12/31/2013	Fairfax 161kV	Fairfax dist.	1	34		39/39 MVA	Rebuild the 34kV line to 69kV (operate at 34kV).	IA	0.5		Planned	\$129,560			NT	A

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Target Appendix	Region	Geographic Location by TO Member System	Proj ID	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
A in MTEP09	West	ITCM	2369	4375	12/31/2013	Marengo East	Pioneer Tap	1	34		39/39 MVA	Rebuild the 34kV line to 69kV (operate at 34kV).	IA	0.3		Planned	\$77,735			NT	A
A in MTEP09	West	ITCM	2369	4377	12/31/2013	Marengo South	Marengo REC	1	34		39/39 MVA	Rebuild the 34kV line to 69kV (operate at 34kV).	IA	1		Planned	\$259,125			NT	A
A in MTEP09	West	ITCM	2370	4381	12/31/2011	Monmouth Tap	Monmouth dist	1	34		39/39 MVA	Rebuild the 34kV line to 69kV (operate at 34kV).	IA	0.4		Planned	\$96,475			NT	A
A in MTEP09	West	ITCM	2370	4382	12/31/2011	Monmouth Tap	Monmouth REC	1	34		39/39 MVA	Rebuild the 34kV line to 69kV (operate at 34kV).	IA	1.6		Planned	\$385,910			NT	A
A in MTEP09	West	ITCM	2370	4380	12/31/2011	Andrew Tap	Andrew dist	1	34		39/39 MVA	Rebuild the 34kV line to 69kV (operate at 34kV).	IA	5.75		Planned	\$1,386,865			NT	A
A in MTEP09	West	ITCM	2371	4383	12/31/2013	Marengo	new switching station	1	69			Construct a new 3-terminal 69kV switching station at the existing Marengo 34kV sub. This work needs to be completed for 69kV operation.	IA			Planned	\$1,900,000			NT	A
A in MTEP08	West	ITCM	1340	2973	12/31/2012	Hazleton	345 termination		345		1195	Expand ring bus to a five breaker ring bus (min 2000 amp). Add one 345kV CB. Extend existing single dead-end tower to double dead-end tower. Four existing 345kV switches rated 1600 amps replaced with 2000 amp switches.	IA			Planned	\$1,080,000			Y	A
A in MTEP08	West	ITCM	1340	2974	12/31/2012	Salem	345 termination		345		1195	Expand ring bus to a five breaker ring bus (min 2000 amp). Add one 345kV CB. Extend existing single dead-end tower to double dead-end tower. Four existing 345kV switches rated 1600 amps replaced with 2000 amp switches.	IA			Planned	\$2,280,000			Y	A
A in MTEP08	West	ITCM	1340	4906	12/31/2012	Salem	Transformer	2	345	161	448	Upgrade Salem 345 sub & add 2nd 345/161kV transformer	IA			Planned	\$5,650,000			Y	A
A in MTEP08	West	ITCM	1340	5390	12/31/2012	Liberty	Lore	1	161			Rebuild a portion of the 161kV line to 326 MVA capacity and install OPWG shield wire the entire distance.	IA	10.8		Planned				Y	A
A in MTEP08	West	ITCM	1340	5389	12/31/2012	Dundee	Liberty	1	161		326 MVA	Rebuild the 161kV line to 326 MVA capacity.	IA	1.94		Planned				Y	A
A in MTEP08	West	ITCM	1340	5388	12/31/2012	Hazleton	Dundee	1	161		326 MVA	Rebuild the 161kV line to 326 MVA capacity.	IA	18.05		Planned				Y	A
A in MTEP08	West	ITCM	1340	4905	12/31/2012	Salem	Hazleton	1	345		1195	Construct a new 345-161kV dbl ckt line(54 miles) and all new ROW for 27 miles of new single ckt 345kV.	IA		81	Planned	\$110,000,000			Y	A
A in MTEP08	West	ITCM	1618	2720	6/1/2013	Heron Lake	Lakefield Jct	1	161		446/446 MVA	Rebuild	MN	17		Planned	\$14,000,000	Y		Y	A
A in MTEP08	West	ITCM	1619	2725	12/31/2011	East Calamus T	Maquoketa	1	161			remove model branch	IA			Planned				Y	A
A in MTEP08	West	ITCM	1619	2723	12/31/2011	East Calamus	Grand Mound	1	161		200/200 MVA	New 161kV line	IA			Planned				Y	A
A in MTEP08	West	ITCM	1640	2751	8/30/2011	Iowa Falls Industrial	transformer	1	115	69	35 MVA	REMOVE transformer branch	IA			Planned	\$0			Y	A
A in MTEP08	West	ITCM	1640	2737	12/31/2011	Iowa Falls	Nuthatch	1	161		446 MVA	Rebuild 115kV to 161kV line	IA	2.65	0	Planned	\$1,000,000			Y	A
A in MTEP08	West	ITCM	1640	2753	12/31/2011	Iowa Falls	transformer	2	115	34	20 MVA	REMOVE transformer branch	IA			Planned	\$0			Y	A
A in MTEP08	West	ITCM	1640	2735	12/31/2011	Iowa Falls Industrial	Iowa Falls	1	161		446 MVA	Rebuild old IA Falls-IA Falls Industrial Tap 115kV to 161kV line. (operate at 115 kV until 2013 conversion completion) (1.54 miles IA Falls Ind Tap-IA Falls Ind already built to 161kV.	IA	2.75	0	Planned	\$580,000			Y	A
A in MTEP08	West	ITCM	1640	2752	12/31/2011	Iowa Falls	transformer	1	115	34	20 MVA	REMOVE transformer branch	IA			Planned	\$0			Y	A
A in MTEP08	West	ITCM	1640	2734	12/31/2012	Eldora	Iowa Falls Industrial	1	161		326/326 MVA	Rebuild Eldora-IA Falls Ind Tap 115kV to 161kV line.(operate at 115 kV until 2013 conversion completion) Build a new completely separate ROW 2 mile 161kV line section from the approximate IA Falls Ind Tap location to the IA Falls Industrial sub.	IA	10.7	2	Planned	\$6,000,000			Y	A
A in MTEP08	West	ITCM	1640	2745	12/31/2013	Eldora	transformer	1	161	34	20 MVA	Retire Eldora Sub	IA			Planned	\$100,000			Y	A
A in MTEP08	West	ITCM	1640	2742	12/31/2013	Iowa Falls Industrial Tap	Iowa Falls Industrial	1	115			REMOVE model branch	IA	1.54	0	Planned	\$0			Y	A
A in MTEP08	West	ITCM	1640	2739	12/31/2013	Wellsburg	Eldora	1	115			REMOVE model branch	IA	11.5	0	Planned	\$0			Y	A
A in MTEP08	West	ITCM	1640	2741	12/31/2013	Iowa Falls Industrial Tap	Iowa Falls	1	115			REMOVE model branch	IA	11.59	0	Planned	\$0			Y	A

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Target Appendix	Region	Geographic Location by TO Member System	PjID	Facility ID	Expected/ISD	From/Sub	To Sub	Okt	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
C	West	ATC LLC	1717	3503	6/1/2020	Glenview	Transformer	2	138	69	100 MVA	Replace two existing 138/69 kV transformers at Glenview Substa with 100 MVA transformers	WI			Conceptual	\$1,720,000			Y	C
C	West	ATC LLC	1717	3502	6/1/2020	Glenview	Transformer	1	138	69	100 MVA	Replace two existing 138/69 kV transformers at Glenview Substa with 100 MVA transformers	WI			Conceptual	\$1,720,000			Y	C
C	West	ATC LLC	1718	3504	6/1/2022	Custer	Transformer	1	138	69	100 MVA	Install a 138/69 kV transformer at Custer substation	WI			Conceptual	\$4,904,268			Y	C
C	West	ATC LLC	1719	3505	6/1/2022	Shoto	Custer	1	138		290 MVA	Construct a Shoto-Custer 138 kV line	WI		9.94	Conceptual	\$22,938,000			Y	C
C	West	ATC LLC	1720	3506	6/1/2017	Wautoma	Transformer	2	138	69	100 MVA	Install a second 138/69-kV transformer at Wautoma Substation	WI			Conceptual	\$1,440,000			Y	C
C	West	ATC LLC	1721	3509	6/1/2050	Pulliam	Danz	1	69		69 MVA	Reconductor Pulliam-Danz 69 kV line	WI	2.63		Conceptual				Y	C
C	West	ATC LLC	1721	3508	6/1/2050	Pulliam	Van Buren	1	69		69 MVA	Reconductor Pulliam-Van Buren 69 kV line	WI	1.88		Conceptual				Y	C
C	West	ATC LLC	1721	3507	6/1/2050	Danz	Henry Street	1	69		57 MVA	Reconductor Danz-Henry Street 69 kV line	WI	2.77		Conceptual				Y	C
C	West	ATC LLC	1723	3512	6/1/2024	Sunset Point	Transformer	2	138	69	100 MVA	Replace two existing 138/69-kV transformers at Sunset Point Substation with 100 MVA transformers	WI			Conceptual	\$1,770,000			Y	C
C	West	ATC LLC	1723	3511	6/1/2024	Sunset Point	Transformer	1	138	69	100 MVA	Replace two existing 138/69-kV transformers at Sunset Point Substation with 100 MVA transformers	WI			Conceptual	\$1,770,000			Y	C
C	West	ATC LLC	1726	3515	6/1/2019	Royster	Sycamore	1	69		83 MVA	Uprate Royster-Sycamore 69 kV line to N/E = 200/275 deg F	WI	3.35		Conceptual	\$790,000			Y	C
C	West	ATC LLC	1727	3516	6/1/2018	Dunn Road	Egg Harbor	2	69		105 MVA	Construct a second Dunn Road-Egg Harbor 69 kV line	WI		12.66	Conceptual	\$37,194,000			Y	C
C	West	ATC LLC	1730	3520	6/1/2020	Cardinal	Blount	1	138		290 MVA	Construct a West Middleton-Blount 138 kV line	WI		6.15	Conceptual	\$60,810,250			Y	C
C	West	ATC LLC	2029	3903	6/1/2017	Brick Church	capacitor		138		1x24.5 Mvar	Install 1-24.5 Mvar 138-kV capacitor bank at Brick Church	WI			Conceptual				Y	C
C	West	ATC LLC	2029	3904	6/1/2017	Brick Church	capacitor		69		1x18Mvar	Install 1-18 Mvar 69-kV capacitor bank at Brick Church	WI			Conceptual				Y	C
C	West	ATC LLC	2030	3905	6/1/2020	Concord	capacitor		138		4x24.5 Mvar	Install 4-24.5 Mvar 138-kV capacitor bank at Concord	WI			Conceptual	\$3,358,282			Y	C
C	West	ATC LLC	2031	3907	6/1/2018	Enzyme Bio Systems Tap	RC3 (Clinton)	1	69		84 MVA	Rebuild Enzyme Bio Systems Tap-RC3 (Clinton) 69 kV	WI		5.33	Conceptual	\$3,548,749			Y	C
C	West	ATC LLC	2031	3906	6/1/2018	Colley Rd	Enzyme Bio Systems Tap	1	69		84 MVA	Rebuild Colley Rd-Enzyme Bio Systems Tap 69 kV	WI		0.98	Conceptual	\$652,491			Y	C
C	West	ATC LLC	2031	3908	6/1/2018	RC3 (Clinton)	Clinton Tap	1	69		146 MVA	Rebuild RC3 (Clinton)-Clinton Tap 69 kV	WI		1.55	Conceptual	\$1,032,000			Y	C
C	West	ATC LLC	2031	3909	6/1/2018	Clinton Tap	Sharon Tap	1	69		84 MVA	Rebuild Clinton Tap-Sharon Tap 69 kV	WI		9	Conceptual	\$5,992,260			Y	C
C	West	ATC LLC	2038	3918	6/2/2018	Spring Valley	Twin Lakes	1	138		293 MVA	Construct Spring Valley-Twin Lakes 138 kV	WI		12	Conceptual	\$16,642,457			Y	C
C	West	ATC LLC	2038	3919	6/2/2018	Twin Lakes	S Lake Geneva	1	138		293 MVA	Construct Twin Lakes-S Lake Geneva 138 kV	WI		12	Conceptual	\$16,642,457			Y	C
C	West	ATC LLC	2040	3921	6/1/2020	Sun Prairie	capacitor		69		2x16.33 Mvar	Install 2x16.33 Mvar 69 kV capacitor banks at Sun Prairie	WI			Conceptual	\$2,566,334			Y	C
C	West	ATC LLC	2042	3923	6/1/2019	Dam Heights	capacitor		69		2x16.33 Mvar	Install 2x16.33 Mvar 69 kV caps at Dam Heights	WI			Conceptual	\$2,896,361			Y	C
C	West	ATC LLC	2043	3924	6/1/2018	Necedah	sub conversion	1	138			Convert Necedah from 69 to 138 kV and tap into the Petenwell-Council Creek 138 kV line	WI			Conceptual	\$761,500			Y	C
C	West	ATC LLC	2046	3930	6/1/2018	North Monroe	capacitor		69		2x16.33 Mvar	Install 2x16.33 Mvar 69 kV capacitor banks at North Monroe	WI			Conceptual	\$2,336,040			Y	C
C	West	ATC LLC	2056	3943	6/1/2020	Oak Creek	Pennsylvania	1	138		478 MVA	Uprate Oak Creek-Pennsylvania 138 kV	WI	4.5		Conceptual	\$2,409,559			Y	C
C	West	ATC LLC	2182	4001	6/1/2017	McCue	LaMar	1	69		95 MVA	New 69-kV line with T2 4/0 ACSR	WI		3.42	Conceptual	\$5,009,085			Y	C
C	West	ATC LLC	2773	4850	12/31/2020	North Madison	New 765/345 kV substation	1	765	345	2640/3040 MV	Construct a new 765/345kV substation in WI. Substation will have a single 765/345kV TRF tying to the North Madison 345kV system and a single 765kV line terminal.	WI			Conceptual	\$85,000,000			Y	C
C	West	ATC LLC	2779	4883	6/1/2014	18th Road	Transformer	1	138	69	60 MVA	Add a new 138/69 kV 150 MVA xfmr at 18th Road	MI			Proposed	\$2,000,000			Y	C
C	West	ATC LLC	2779	4882	6/1/2014	18th Road	Substation		138			Add a new 138/69 kV SS at 18th Road	MI			Proposed	\$11,000,000			Y	C

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C	West	ATC LLC	2779	4881	6/1/2014	Chandler	18th Road	1	138		348 MVA	Build a new 6-mile 138 kV line from Chandler to 18th Road	MI		6	Proposed	\$6,000,000			Y	C
C	West	ATC LLC	2779	5478	6/1/2014	Chandler	18th Road	2	138		348 MVA	Build a new 6-mile 138 kV line from Chandler to 18th Road, that will be operated at 69 kV	MI		6	Proposed	\$3,000,000			Y	C
C	West	ATC LLC	2779	6483	6/1/2014	18th Road			69			2x4.08 Cap Bank at 18th Road Substation	WI			Proposed				Y	C
C	West	ATC LLC	2779	6484	6/1/2014	18th Road	Mead	1	69	57		New 18th Rd -Mead 69 kV line	WI		0.19	Proposed				Y	C
C	West	ATC LLC	3096	5422	6/1/2014	Timber Products	Seney	1	69		37 MVA	Increase ground clearance for the Inland line	MI	28.4		Conceptual	\$11,338,403			Y	C
												Munising-Blaney Park 69kV to 167 deg f (37 MVA) clearance									
C	West	ATC LLC	3096	5421	6/1/2014	Munising	Timber Products	1	69		37 MVA	Increase ground clearance for the Inland line	MI	6.2		Conceptual	\$2,478,285			Y	C
												Munising-Blaney Park 69kV to 167 deg f (37 MVA) clearance									
C	West	ATC LLC	3096	5423	6/1/2014	Seney	Blaney Park	1	69		37 MVA	Increase ground clearance for the Inland line	MI	18		Conceptual	\$7,186,312			Y	C
												Munising-Blaney Park 69kV to 167 deg f (37 MVA) clearance									
C	West	ATC LLC	3117	5461	6/1/2021	Townline Rd	Bass Creek	1	138		211 MVA	Reconductor X-12 from Townline Rd to Bass Creek with 477 ACSR HAWK	WI	11.7		Conceptual	\$1,900,000			Y	C
C	West	ATC LLC	3124	5475	6/1/2018	Forsyth	Gwinn	2	69		95 MVA	construct a 2nd Forsyth-Gwinn 69kV line	MI	0.84		Conceptual	\$1,000,000			Y	C
C	West	ATC LLC	3125	5476	6/1/2015	Arnold	transformer	1	345	138	500 MVA	Tap the Plains-Dead River 345kV line into the Arnold 138kV substation and add a 345/138kV transformer	MI			Proposed	\$16,000,000			Y	C
C	West	ATC LLC	3158	5546	6/1/2015	Petenwell	transformer	1	138	69	100	Replace Petenwell Transformer, replace electromechanical relays, install highside circuit switchers on the GSUs for the Petenwell Hydro Plant	WI			proposed	\$3,246,000			Y	C
C	West	ATC LLC	3159	5547	6/1/2015	West Middleton	Timberlane Tap	1	69		83	Uprate West Middleton to Timberlane Tap 69 kV Line	WI	1.8		Conceptual	\$775,650			Y	C
C	West	ATC LLC	3159	5548	6/1/2015	Timberlane Tap	Stage Coach	1	69		84	Uprate Timberlane Tap to Stage Coach 69 kV Line	WI	2.4		Conceptual	\$1,032,393			Y	C
C	West	ATC LLC	3164	5563	6/1/2020	Point Beach	Ludington	1	350		1000	Construct a HVDC line under Lake Michigan from Point Beach to Ludington	WI/MI		64	Conceptual	\$828,000,000			Y	C
C	West	ATC LLC	3164	5584	6/1/2020	WI HVDC North	DC Station for 1000 MW		350			Install a HVDC converter station near Point Beach	WI			Conceptual				Y	C
C	West	ATC LLC	3164	5565	6/1/2020	MI HVDC North	DC Station for 1000 MW		350			Install a HVDC converter station near Ludington	MI			Conceptual				Y	C
C	West	ATC LLC	3164	5566	6/1/2020	WI HVDC North	Point Beach		345		1250	Construct a 345 kV line to connect the WI HVDC North SS to Point Beach	WI		0.5	Conceptual				Y	C
C	West	ATC LLC	3164	5567	6/1/2020	MI HVDC North	Ludington		345		1250	Construct a 345 kV line to connect the MI HVDC North SS to Ludington	MI		0.5	Conceptual				Y	C
C	West	ATC LLC	3165	5569	6/1/2020	WI HVDC South	substation		350	345		Install a HVDC converter station near Elm Rd	WI			Conceptual				Y	C
C	West	ATC LLC	3165	5570	6/1/2020	MI HVDC South	substation		765	350		Install a HVDC converter station near DC Cook	MI			Conceptual				Y	C
C	West	ATC LLC	3165	5572	6/1/2020	MI HVDC South	DC Cook		765		1250	Construct a 765 kV line to connect the MI HVDC South SS to DC Cook	MI		0.5	Conceptual				Y	C
C	West	ATC LLC	3165	5571	6/1/2020	WI HVDC South	Elm Rd		345		1250	Construct a 345 kV line to connect the WI HVDC South SS to Elm Rd	WI		0.5	Conceptual				Y	C
C	West	ATC LLC	3165	5568	6/1/2020	Elm Rd	DC Cook	1	350		1000	Construct a HVDC line under Lake Michigan from Elm Rd to DC Cook	WI/MI		91	Conceptual	\$1,071,000,000			Y	C
C	West	ATC LLC	3166	5573	6/1/2018	Hillman	transformer	2	138	69	100	Install a 2nd transformer	WI			Conceptual	\$4,843,288			Y	C
C	West	ATC LLC	3167	5574	6/1/2018	South Monroe	Monroe Central Tap	1	69		84	Increase line clearance for 300 deg F Summer Emergency operation	WI	0.8		Conceptual	\$871,408			Y	C
C	West	ATC LLC	3167	5575	6/1/2018	Monroe Central Tap	Idle Hour Tap	1	69		84	Increase line clearance for 300 deg F Summer Emergency operation	WI	1.6		Conceptual	\$1,742,817			Y	C
C	West	ATC LLC	3167	5576	6/1/2018	Idle Hour Tap	North Monroe	1	69		84	Increase line clearance for 300 deg F Summer Emergency operation	WI	4.1		Conceptual	\$4,465,968			Y	C
C	West	ATC LLC	3189	5630	6/1/2019	Ripon	Northwest Ripon	1	69		84	Uprate line Y-93 from Ripon to Northwest Ripon from 167 deg F to SN/SE	WI	1.8		Conceptual	\$2,205,426			Y	C

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C	West	ATC LLC	3190	5631	6/1/2019	Sunset Point	Winneconne	1	69	84		Rebuild line Y-103 from Sunset Point to Winneconne to SN/SE = 200/300 deg F	WI	10.5		Conceptual	\$12,366,239			Y	C
C	West	ATC LLC	3207	5974	6/1/2016	Harrison	Transformer	1	138	69	100	Replace Harrison 138/69kV Tr with a larger unit and uprate terminal equipment to a minimum of the transformer ratings	WI			Conceptual	\$3,229,974			Y	C
C	West	ATC LLC	3208	5975	6/1/2018	Caroline	Transformer	1	115	69	100	Replaces Caroline 115/69-kV transformer with a dual high side 138-115/69-kV 100 MVA transformer and uprate terminal equipment to a minimum of the transformer ratings	WI			Conceptual	\$4,010,542			Y	C
C	West	ATC LLC	3429	6324	6/1/2020	Sun Valley Tap	Oregon	1	69	80		Rebuild Sun Valley Tap-Oregon	WI	6.7		Conceptual	\$5,561,798			Y	C
C	West	ATC LLC	3430	6326	6/1/2016	Brusbay	Sawyer	1	69	64		Rebuild Brusbay-Sawyer 69 kV	WI	7.9		Conceptual	\$3,793,968			Y	C
C	West	ATC LLC	3430	6325	6/1/2016	Dyckesville	Brusbay	1	69	80		Rebuild Dyckesville-Brusbay 69 kV	WI	16.7		Conceptual	\$8,020,160			Y	C
C	West	ATC LLC	3487	6445	6/1/2022	West Middleton	Pheasant Branch	2	69	173		Replace existing single circuit from WMD-Pheasant Branch 69 kV with double circuit 69 kV lines.	WI		4.52	Conceptual				Y	C
C	West	ATC LLC	3487	6444	6/1/2022	West Middleton	Pheasant Branch	1	69	153		Replace existing single circuit from WMD-Pheasant Branch 69 kV with double circuit 69 kV lines.	WI	4.52		Conceptual	\$22,711,186			Y	C
C	West	ATC LLC	3506	6475	12/31/2012	Vinburn	Deforest	1	69	80		Y-104c, 1/4 mile of double circuit (minimum rating of 706 Amps, SN, 961 amps, SE) for the loop through feed off of line Y104	WI		0.25	Proposed				Y	C
C	West	ATC LLC	3506	6473	12/31/2012	Vinburn	Hampden	1	69	72		Y-104a, 1/4 mile of single circuit (minimum rating of 706 amps SN, 961 amps SE) to serve the Hampden tap	WI		0.25	Proposed	\$3,362,287			Y	C
C	West	ATC LLC	3506	6474	12/31/2012	Vinburn	Sun Prairie Business Park	1	69	80		Y-104b, 1/4 mile of double circuit (minimum rating of 706 Amps, SN, 961 amps, SE) for the loop through feed off of line Y104	WI		0.25	Proposed				Y	C
C	West	ATC LLC	3507	6476	3/1/2012	Shoto	Manrap	1	69	80		Uprate of C-55 (MANRAP - SHOTO 69KV)	WI	7.65		Proposed	\$319,044			Y	C
C	West	ATC LLC	3508	6477	1/1/2012	Revere	N. East	1	69	83		Uprate of C-103 (REVERE - N.EAST 69KV)	WI	2.32		Proposed	\$171,475			Y	C
C	West	ATC LLC	3510	6482	6/1/2017	Edgewood	St. Martins	1	138	287		3013 Edgewood-St. Martins 138-kV rebuild	WI	7.07		Proposed	\$9,200,000			Y	C
C	West	ATC LLC	3510	6481	6/1/2017	Mukwonago	Edgewood	1	138	293		671K61 Mukwonago-Edgewood 138-kV rebuild	WI	7.19		Proposed	\$10,000,000			Y	C
C	West	ATC LLC	3511	6485	11/14/2011	Edgewater	Saukville	1	345	785		uprate Edgewater to Saukville 345 kV line	WI			Proposed	\$1,798,252			Y	C
C	West	ATC LLC	3512	6490	6/1/2020	MI HVDC North	Cook	1	345			Construct a 345 kV line to connect the MI HVDC North SS to Ludington	MI		0.5	Conceptual				Y	C
C	West	ATC LLC	3512	6489	6/1/2020	WI HVDC North	Pleasant Prairie	1	345			Construct a 345 kV line to connect the WI HVDC North SS to Point Beach	WI		0.5	Conceptual				Y	C
C	West	ATC LLC	3512	6488	6/1/2020	MI HVDC North	DC Station for 1000 MW		350			Install a HVDC converter station near Ludington	MI			Conceptual				Y	C
C	West	ATC LLC	3512	6487	6/1/2020	WI HVDC North	DC Station for 1000 MW		350			Install a HVDC converter station near Point Beach	WI			Conceptual				Y	C
C	West	ATC LLC	3512	6486	6/1/2020	Pleasant Prairie	Cook	1	350			Construct a HVDC line under Lake Michigan from Point Beach to Ludington	WI/MI		86	Conceptual	\$828,000,000			Y	C
C	West	ATC LLC	3515	6495	12/31/2011	Granville	Tosa	1	138	293		Uprate Granville-Tosa 138 kV line	WI			Proposed	\$1,136,322			Y	C
C	West	ATC LLC	3515	6496	12/31/2011	Granville	Butler	1	138	293		Uprate Granville-Butler 138 kV line	WI			Proposed				Y	C
C	West	ATC LLC, ALTW	2230	4143	8/1/2018	Spring Green	West Middleton	1	345	1412		new line	WI		18	Conceptual	\$23,000,000			Y	C
C	West	ATC LLC, ALTW	2230	4144	8/1/2018	Spring Green	Transformer	1	345	138	336	new transformer	WI			Conceptual	\$10,000,000			Y	C
C	West	ATC LLC, ALTW	2230	4105	8/1/2018	Spring Green	Salem	1	345	1412		new line	WI		54	Conceptual	\$69,000,000			Y	C
C	West	ATC LLC, XEL	2211	4037	8/1/2018	Longwood	Greenwood	1	345	1000		new line	WI		14	Conceptual	\$200,000,000			Y	C
C	West	ATC LLC, XEL	2773	4857	12/31/2020	North Madison	Adams	1	765	3975/4570 MV		Build 250 miles of new 765kV from the Adams substation in southeast MN to the North Madison substation in WI.	MN/WI		250	Conceptual	\$900,000,000			Y	C
C	West	DEM, AmerenIL, I	2773	4867	12/31/2020	Sullivan	Grimes	1	765	3975/4570 MV		Build 455 miles of new 765kV from the Grimes substation in IA to the Sullivan substation in IN.	IA/MO/IL/IN		455	Conceptual	\$1,638,000,000			Y	C
C	West	DPC, ATC LLC	2231	4106	8/1/2018	Hilltop	Columbia	1	345	1195		new line	WI		50	Conceptual	\$68,000,000			Y	C
C	West	DPC, ATC LLC	2231	4107	8/1/2018	Hilltop	Transformer	1	345	138	500	new transformer	WI			Conceptual	\$10,000,000			Y	C

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C	West	DPC, ATC LLC	2231	4145	8/1/2018	Hilltop	LaCrosse	1	345		1195	new line	WI		80	Conceptual	\$108,000,000			Y	C
C	West	GRE	2569	4580	12/2/2013	Shoal Lake	Nashwauk Tap	1	115			Distribution conversion to 115 kV	MN		8	Planned	\$6,450,515			Y	C
C	West	GRE	2600	4611	10/30/2015	Big Sandy	Big Sandy Tap	1	69			New Distribution	MN		4	Planned	\$5,149,000			NT	C
C	West	GRE	2632	4643	12/1/2013	Onigum	Birch Lake	1	115		140	Onigum 115 kV conversion, Birch Lake 115 kV breaker and deadend	MN	9.45		Proposed	\$5,300,000			Y	C
C	West	GRE	2691	4709	6/1/2017	Orrock	Waco	1	115	69	315.9/135.9	Double Circuit	MN	3.5		Conceptual				Y	C
C	West	GRE	2691	4711	6/1/2017	Liberty	Thompson Lake	1	115		135.9	Reconductor	MN	3.29		Conceptual				Y	C
C	West	GRE	2691	4708	6/1/2017	Orrock	transformer	1	345	115	336		MN			Conceptual	\$19,661,825			Y	C
C	West	GRE	2691	4710	6/1/2017	Thompson Lake	Waco	1	115	69	315.9/135.9	Double Circuit	MN	10.33		Conceptual				Y	C
C	West	GRE	3393	6266	11/1/2013	Peterson	115 kV distribution tap switch		115		0	Convert Peterson 24 kV substation to 115 kV	MN	0	0	Planned	\$742,690	N		Y	C
C	West	GRE	3470	6397	12/1/2011	G667							MN			Planned	\$118,182			Y	C
C	West	GRE, OTP	2773	4865	12/31/2020	Antelope Valley	New North Dakota	1	765		3975/4570 MV	Build 135 miles of new 765kV from the Chisago substation in MN to the new North Dakota substation in ND.	SD/ND/IA		135	Conceptual	\$486,000,000			Y	C
C	West	GRE, OTP, XEL	2773	4864	12/31/2020	Chisago	New North Dakota	1	765		3975/4570 MV	Build 355 miles of new 765kV from the Chisago substation in MN to the new North Dakota substation in ND.	SD/ND/IA		355	Conceptual	\$1,278,000,000			Y	C
C	West	GRE, XEL	2773	4844	12/31/2020	Helena	New 765/345 kV substation	1	765	345	2640/3040 MV	Construct a new 765/345kV substation in MN. Substation will have a single 765/345kV TRF tying to the Helena 345kV system and three 765kV line terminals.	MN			Conceptual	\$120,000,000			Y	C
C	West	GRE, XEL	2773	4854	12/31/2020	Helena	Chisago	1	765		3975/4570 MV	Build 160 miles of new 765kV from the Helena Substation to the Adams substation in southeast MN.	MN		160	Conceptual	\$576,000,000			Y	C
C	West	GRE, XEL	2773	4855	12/31/2020	Helena	Adams	1	765		3975/4570 MV	Build 130 miles of new 765kV from the Helena Substation to the Adams substation in southeast MN.	MN		130	Conceptual	\$468,000,000			Y	C
C	West	GRE, XEL	2773	4853	12/31/2020	Helena	Lakefield	1	765		3975/4570 MV	Build 115 miles of new 765kV from the Helena Substation to the Lakefield substation in southwest MN.	MN		115	Conceptual	\$414,000,000			Y	C
C	West	ITCM	1738	3536	12/31/2017	Bertram	Hills	1	161		446/446 MVA	Reconductor the Bertram-Rose Hollow-Hills	IA	32.2		Proposed	\$22,540,000			Y	C
C	West	ITCM	1742	4392	12/31/2014	Brewster	Heron Lake	1	161		446 MVA	Rebuild existing line	MN	14.64		Proposed	\$10,220,000			Y	C
C	West	ITCM	1742	3544	12/31/2015	Elk	Brewster	1	161		326/326 MVA	Rebuild existing line	MN	3.32		Proposed	\$2,324,000			Y	C
C	West	ITCM	1742	3543	12/31/2015	Magnolia	Elk	1	161		326/326 MVA	Rebuild existing line	MN	18.75		Proposed	\$13,160,000			Y	C
C	West	ITCM	1742	3542	12/31/2016	Split Rock	Magnolia	1	161		446/446 MVA	Rebuild existing line	MN	11		Proposed	\$7,700,000			Y	C
C	West	ITCM	1746	3549	12/31/2011	Fox Lake	Rutland	1	161		446/446 MVA	Rebuild existing line	MN	17		Proposed	\$11,900,000			Y	C
C	West	ITCM	1746	3550	12/31/2012	Rutland	Winnebago	1	161		446/446 MVA	Rebuild existing line	MN	14.6		Proposed	\$10,220,000			Y	C
C	West	ITCM	1746	3552	12/31/2014	Winnebago	Hayward	1	161		446/446 MVA	Rebuild existing line	MN	49.09		Proposed	\$34,370,000			Y	C
C	West	ITCM	1746	3553	12/31/2015	Hayward	Adams	1	161		446/446 MVA	Rebuild existing line	MN	36.39		Proposed	\$25,480,000			Y	C
C	West	ITCM	1746	3551	12/31/2015	Lakefield Jct	Fox	1	161		446/446 MVA	Rebuild existing line	MN	22.3		Proposed	\$15,610,000			Y	C
C	West	ITCM	2773	4849	12/31/2020	Hazleton	New 765/345 kV substation	1	765	345	2640/3040 MV	Construct a new 765/345kV substation in IA. Substation will have a single 765/345kV TRF tying to the Hazleton 345kV system and two 765kV line terminals.	IA			Conceptual	\$110,000,000			Y	C
C	West	ITCM	2773	4847	12/31/2020	Iowa new substation	New 765/345 kV substation	1	765	345	2640/3040 MV	Construct a new 765/345kV substation in IA. Substation will have a single 765/345kV TRF and three 765kV line terminals.	IA			Conceptual	\$120,000,000			Y	C
C	West	ITCM	2773	4845	12/31/2020	Lakefield	New 765/345 kV substation	1	765	345	2640/3040 MV	Construct a new two TRF 765/345kV substation in southwest MN. Substation will have two 765/345kV TRFs tying to the Lakefield 345kV system and four 765kV line terminals.	MN			Conceptual	\$220,000,000			Y	C
C	West	ITCM	2773	4860	12/31/2020	Lakefield	New IA Substation	1	765		3975/4570 MV	Build 100 miles of new 765kV from the Lakefield substation in southwest MN to a new IA substation in western IA.	MN/IA		100	Conceptual	\$360,000,000			Y	C

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C	West	ITCM	2773	4858	12/31/2020	Lakefield	Adams	1	765		3975/4570 MV	Build 140 miles of new 765kV from the Lakefield substation in southwest MN to the Adams substation in southeast MN.	MN		140	Conceptual	\$504,000,000			Y	C
C	West	ITCM	2773	4862	12/31/2020	Fort Thompson	New IA Substation	1	765		3975/4570 MV	Build 305 miles of new 765kV from the new IA substation to the Fort Thompson substation in SD.	SD/IA		305	Conceptual	\$1,098,000,000			Y	C
C	West	ITCM	2830	4971	1/1/2014	Lakefield Jct	Rutland	1	345		1500		MN	39.4		Proposed	\$98,500,000			Y	C
C	West	ITCM	2830	4972	1/1/2014	Rutland	345/161 kV transformer	1	345	161	336		MN			Proposed				Y	C
C	West	ITCM	2950	5137	6/1/2018	Polk City	NE Ankeny	1	161			Polk City Sub dbl ckt line tap (cost is included with Bittersweet Road-Polk City line tap)	IA		3.5	Conceptual				Y	C
C	West	ITCM	2950	5136	6/1/2018	Bittersweet Road	Polk City	1	161			Polk City Sub dbl ckt line tap	IA		3.5	Conceptual				Y	C
C	West	ITCM	3086	5394	12/31/2013	8th Street	Kerper	1	161		326 MVA	Rebuild 161kV line	IA	2.6		Proposed	\$1,430,000			Y	C
C	West	ITCM	3086	5395	12/31/2014		Kerper	1	161		326 MVA	Rebuild 161kV line	IA	10.23		Proposed	\$5,626,500			Y	C
C	West	ITCM	3087	5396	12/31/2016	Lansing	Harmony	1	161		326 MVA	Rebuild part of IA line sections	IA			Proposed	\$30,000,000			Y	C
C	West	ITCM	3500	6460	12/31/2012	NERC Alert Facility Ratings for 2012	Throughout system					Verify and remediate facilities as required due to the industry-wide NERC alert	IA			Planned				Y	C
C	West	ITCM	3501	6461	12/31/2013	NERC Alert Facility Ratings for 2013	Throughout system					Verify and remediate facilities as required due to the industry-wide NERC alert	IA			Planned				Y	C
C	West	ITCM	3502	6462	12/31/2014	NERC Alert Facility Ratings for 2014	Throughout system					Verify and remediate facilities as required due to the industry-wide NERC alert	IA			Planned				Y	C
C	West	ITCM, AmerenIL	2785	4893	5/1/2014	New Substation in NW Iowa	+/- 800kV DC converter station	1	800		6400	new +/- 800kV DC converter station	IA			Proposed				Y	C
C	West	ITCM, MEC	2773	4861	12/31/2020	Grimes	New IA Substation	1	765		3975/4570 MV	Build 115 miles of new 765kV from the new IA substation to Grimes substation near Des Moines, IA.	IA		115	Conceptual	\$414,000,000			Y	C
C	West	ITCM, XEL	2773	4856	12/31/2020	Hazleton	Adams	1	765		3975/4570 MV	Build 85 miles of new 765kV from the Hazleton substation in IA to the Adams substation in southeast MN.	MN/IA		85	Conceptual	\$306,000,000			Y	C
C	West	ITCM, XEL	2773	4859	12/31/2020	Lakefield	Fort Thompson	1	765		3975/4570 MV	Build 240 miles of new 765kV from the Lakefield substation in southwest MN to the Fort Thompson substation in SD.	MN/SD		240	Conceptual	\$864,000,000			Y	C
C	West	MDU	3082	5362	6/1/2014	NW Bismarck	3 PCB				115	Create a ring bus	ND			Planned	\$3,050,000			Y	C
C	West	MDU	3084	5370	12/1/2015	East Bismarck	Terminal Equipment				115	Upgrade Terminal Equip. to increase line rating	ND			Proposed	\$100,000			Y	C
C	West	MDU	3084	5369	12/1/2015	East Bismarck	Bismarck (WAPA)	1	115		200	New line Segment	ND		0.1	Proposed	\$400,000			Y	C
C	West	MDU	3084	5368	12/1/2015	East Bismarck	4 PCB				115	Add bus tie breaker & new line terminal	ND			Proposed	\$2,000,000			Y	C
C	West	MDU	3456	6334	6/1/2016	Glenham	Transformer	1	230	115	50/40/20	Replacement 230/115/41.6 transformer	SD			Planned	\$2,500,000			Y	C
C	West	MDU	3456	6335	6/1/2016	Glenham	2 PCB				230	Create a ring bus	SD			Planned	\$2,500,000			Y	C
C	West	MDU	3456	6336	6/1/2016	Glenham	2 PCB				115	Add low side transformer breakers	SD			Proposed	\$2,000,000			Y	C
C	West	MDU, NON-MISO	2214	4080	8/1/2018	Glenham	Ellendale	1	345		872	new line	SD/ND		86	Conceptual	\$37,000,000			Y	C
C	West	MDU, NON-MISO	2214	4081	8/1/2018	Glenham	Transformer	1	345	230	336	new transformer	SD			Conceptual	\$10,000,000			Y	C
C	West	MEC	2773	4848	12/31/2020	Grimes	New 765/345 kV substation	1	765	345	2640/3040 MV	Construct a new 765/345kV substation in IA. Substation will have a single 765/345kV TRF tying to the Grimes 345kV system and two 765kV line terminals.	IA			Conceptual	\$110,000,000			Y	C
C	West	MEC	2941	5118	12/31/2014	Sub T Fort Dodge	Boone Jct	1	161		167	Replace structures to increase operating temp	IA	13.24		Proposed	\$1,600,000			Y	C
C	West	MEC	2943	5120	6/1/2020	Hills	Hills	2	345	161	560	Install 2nd 560 MVA 345-161 kV transformer at Hills Substation. Expand 345 and 161 kV ring busses to accommodate new transformer.	IA			Conceptual	\$12,000,000			Y	C
C	West	MEC	2944	5121	6/1/2019	Hills	Sub E	1	161		410	Reconductor the Hills - Sub E Iowa City 161 kV Line.	IA	6.5		Conceptual	\$1,800,000			Y	C
C	West	MEC	2945	5122	6/1/2019	Grimes	Transformer	2	345	161	560	Add second transformer at Grimes	IA			Conceptual	\$11,900,000			Y	C
C	West	MEC	2946	5123	6/1/2018	Greenfield Plaza	Army Post	1	161		335	Reconductor	IA	5.25		Proposed	\$1,200,000			Y	C
C	West	MEC	2947	5125	6/1/2012	North Grimes			161	13.2	33	New North Grimes 161-13 kV distribution sub	IA			Planned	\$2,700,000			Y	C
C	West	MEC	2947	5126	6/1/2012	Granger	North Grimes	1	161		410	North Grimes Substation line tap	IA		0.1	Planned	\$100,000			Y	C

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Target Appendix	Region	Geographic Location by ITO Member System	ProjID	Facility ID	Expected ISD	From Sub	To Sub	Grds	Max KV	Min KV	Facility Rating	Facility Description	State	Miles Opp	Miles New	Plan Status	Estimated Cost	Cost Shared	Postage Stamp	MISO Facility	App ABC
C	West	MEC	2947	5127	6/1/2012	North Grimes	Grimes Tap	1	161		410	North Grimes Substation line tap	IA		0.1	Planned	\$100,000			Y	C
C	West	MEC	2947	5124	6/1/2018	Army Post	Ashawa	1	161		335	Reconductor	IA	4.27		Proposed	\$1,000,000			Y	C
C	West	MEC	2948	5131	6/1/2018	W. Waukeee Tap Structure	W. Waukeee	1	161		410	Add 161 kV tap into and out of sub	IA		0.2	Proposed	\$250,000			Y	C
C	West	MEC	2948	5133	6/1/2018	Grimes			161			Add line terminal at Grimes	IA			Proposed	\$700,000			Y	C
C	West	MEC	2948	5128	6/1/2018	W. Waukeee			161	13.2	33	Add W. Waukeee distribution sub	IA			Proposed	\$2,700,000			Y	C
C	West	MEC	2948	5134	6/1/2018	Booneville			161			Add line terminal at Booneville	IA			Proposed	\$700,000			Y	C
C	West	MEC	2948	5129	6/1/2018	Grimes	W. Waukeee Tap Structure	1	161		410	Add Grimes-W Waukeee 161 kV line	IA		9.2	Proposed	\$3,500,000			Y	C
C	West	MEC	2948	5130	6/1/2018	W. Waukeee Tap Structure	Booneville	1	161		410	Add W Waukeee-Booneville 161 kV line	IA		7.4	Proposed	\$2,800,000			Y	C
C	West	MEC	2949	5132	6/1/2020	W. Waukeee	161/69 transformer	1	161	69		Add 161-69 kV transformer and 161 kV circuit breakers	IA			Conceptual	\$3,100,000			Y	C
C	West	MEC	2950	5135	6/1/2018	Polk City			161	13.2	33	Add Polk City distribution sub	IA			Conceptual	\$1,500,000			Y	C
C	West	MEC	2951	5140	6/1/2018	Boston	Forest & Vermont	1	161		410	Boston Substation line tap	IA		0.1	Conceptual	\$300,000			Y	C
C	West	MEC	2951	5138	6/1/2018	Boston			161	13	33	Add Boston distribution sub	IA			Conceptual	\$1,400,000			Y	C
C	West	MEC	2951	5139	6/1/2018	Sycamore	Boston	1	161		410	Boston Substation line tap	IA		0.1	Conceptual	\$300,000			Y	C
C	West	MEC	2952	5147	6/1/2016	D.M. Energy Center			161			Relay upgrade for Metro East line	IA			Conceptual	\$100,000			Y	C
C	West	MEC	2952	5146	6/1/2016	Altoona			161			Relay upgrade for Metro East line	IA			Conceptual	\$40,000			Y	C
C	West	MEC	2952	5141	6/1/2016	East Altoona			161	13	33	Add E Altoona distribution sub	IA			Conceptual	\$1,400,000			Y	C
C	West	MEC	2952	5142	6/1/2016	Metro East	East Altoona	1	161		410	Add Metro E-E Altoona 161 kV line	IA		7	Conceptual	\$4,900,000			Y	C
C	West	MEC	2952	5143	6/1/2016	East Altoona	Bondurant	1	161		410	Add E Altoona-Bondurant 161 kV line	IA		4	Conceptual	\$2,900,000			Y	C
C	West	MEC	2952	5144	6/1/2016	Metro East			161			Add breakers at Metro E Substation	IA			Conceptual	\$900,000			Y	C
C	West	MEC	2952	5145	6/1/2016	Bondurant			161			Add breaker/line term at Bondurant	IA			Conceptual	\$1,100,000			Y	C
C	West	MEC	2953	5151	6/1/2020	Page County	Clarinda	1	161			Reconductor line	IA	3		Conceptual	\$900,000			Y	C
C	West	MEC	2953	5148	6/1/2020	Page County	Bus		345			345 kV terminals for Page County Substation	IA			Conceptual	\$1,500,000			Y	C
C	West	MEC	2953	5149	6/1/2020	Page County	Transformer	1	345	161		345-161 kV transformer at new Page County Substation	IA			Conceptual	\$15,500,000			Y	C
C	West	MEC	2953	5150	6/1/2020	Page County	Bus		161			161 kV terminals for Page County Substation	IA			Conceptual	\$700,000			Y	C
C	West	MEC	2954	5152	6/1/2018	Clarinda	Capacitor		161			New capacitor	IA			Proposed	\$1,000,000			Y	C
C	West	MEC	3217	6000	12/31/2019	Scott County			765			New 765 kV Substation in Iowa Quad Cities in Scott County, Iowa	IA	0	0	Proposed	\$71,000,000			Y	C
C	West	MEC	3217	6001	12/31/2019	Kewanee	Scott County	1	765		7140	New 765 kV line from Kewanee to Scott County and associated substation equipment additions.	IA/IL	0	45	Proposed	\$122,000,000			Y	C
C	West	MEC	3218	6004	12/31/2019	Hazleton		1	765	345	1200	Expand Hazleton Substation to include 765 kV yard and 765-345 kV transformation	IA	0	0	Proposed	\$66,000,000			Y	C
C	West	MEC	3219	6003	12/31/2019	Kewanee	Louisa	1	765		7140	New 765 kV line from Kewanee to Louisa and associated substation equipment additions.	IA/IL	0	80	Proposed	\$217,000,000			Y	C
C	West	MEC	3219	6002	12/31/2019	Louisa		1	765	345	1200	Expand Louisa Substation to include 765 kV yard and 765-345 kV transformation	IA	0	0	Proposed	\$66,000,000			Y	C
C	West	MEC	3221	6007	12/31/2019	Pocahontas County			765	345		New 765-345 kV Substation in Pocahontas County, Iowa. Station includes two 765-345 kV transformers and taps the Raun-Lehigh 345 kV line	IA	0	0	Proposed	\$92,000,000			Y	C
C	West	MEC	3221	6008	12/31/2019	Pocahontas County	Hazleton	1	765		3810	New 765 kV line from Pocahontas County to Hazleton and associated substation equipment additions.	IA	0	275	Proposed	\$745,000,000			Y	C
C	West	MEC	3224	6011	12/31/2019	Woodbury County (Raun)	Hoskins		345			New double circuit 345 kV line from either Raun or new substation in Woodbury County to Hoskins and associated substation equipment additions.	IA/NE	0	85	Proposed	\$167,000,000			Y	C
C	West	MEC	3225	6012	12/31/2019	Woodbury County (Raun)	Broadland		345			New double circuit 345 kV line from either Raun or new substation in Woodbury County to Broadland and associated substation equipment additions.	IA/SD	0	300	Proposed	\$591,000,000			Y	C

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C	West	MEC	3226	6013	12/31/2024	Pocahontas County	Woodbury County (Raun)	1	765		4760	New 765 kV line from Pocahontas County to Raun or new substation in Woodbury County and associated substation equipment additions.	IA	0	85	Proposed	\$230,000,000			Y	C
C	West	MEC	3226	6014	12/31/2024	Woodbury County (Raun)		1	765	345	1200	New Substation in Woodbury County or Expansion of Raun Substation to include 765 kV yard and 765-345 kV transformation	IA	0	0	Proposed	\$66,000,000			Y	C
C	West	MEC	3227	6015	12/31/2024	Pocahontas County	Hoskins	1	765		5300	New 765 kV line from Pocahontas County to Hoskins and associated substation equipment additions.	IA/NE	0	170	Proposed	\$461,000,000			Y	C
C	West	MEC	3228	6017	12/31/2024	Hills		1	765	345	1200	Expand Hills Substation to include 765 kV yard and 765-345 kV transformation	IA	0	0	Proposed	\$66,000,000			Y	C
C	West	MEC	3229	6019	12/31/2024	Osceola County		1	765	345	1200	New 765-345 kV Substation in Osceola County, Iowa. Station includes one 765-345 kV transformer and taps the Raun-Lakefield Jct. 345 kV line	IA	0	0	Proposed	\$71,000,000			Y	C
C	West	MEC	3229	6018	12/31/2029	Pocahontas County	Osceola County	1	765		4760	New 765 kV line from Pocahontas County to Osceola County and associated substation equipment additions.	IA	0	55	Proposed	\$149,000,000			Y	C
C	West	MEC	3230	6020	12/31/2029	Osceola County	Chanarambie	1	765		4760	New 765 kV line from Osceola County to Chanarambie and associated substation equipment additions.	IA/MN	0	135	Proposed	\$366,000,000			Y	C
C	West	MEC	3231	6021	12/31/2029	Pocahontas County	Adair County	1	765		4760	New 765 kV line from Pocahontas County to Adair County and associated substation equipment additions.	IA	0	150	Proposed	\$407,000,000			Y	C
C	West	MEC	3231	6022	12/31/2029	Adair County			765	345	1200	New 765-345 kV Substation in Adair County, Iowa. Station includes two 765-345 kV transformers and taps the Atchison County-Booneville and Council Bluffs-Madison County 345 kV lines near the crossing point of these two 345 kV circuits.	IA	0	0	Proposed	\$92,000,000			Y	C
C	West	MEC	3232	6023	12/31/2029	Adair County	St. Joe	1	765		3810	New 765 kV line from Adair County to St. Joe and associated substation equipment additions.	IA/MO	0	150	Proposed	\$407,000,000			Y	C
C	West	MEC	3233	6024	12/31/2029	Adair County	Hills	1	765		2620	New 765 kV line from Adair County to Hills and associated substation equipment additions.	IA	0	255	Proposed	\$691,000,000			Y	C
C	West	MEC	3234	6025	12/31/2029	Hills	Kincaid	1	765		2380	New 765 kV line from Hills to Kincaid and associated substation equipment additions.	IA/IL	0	275	Proposed	\$745,000,000			Y	C
C	West	MEC	3237	6031	6/1/2020	Avoca 345-161 kV Sub	Page County Substation	1	345		1700	New 345 kV line from the Avoca 345-161 kV substation to the Page County Substation with 161 kV underbuild	IA	0	70	Conceptual	\$125,000,000			Y	C
C	West	MEC	3237	6030	6/1/2020	Page County Substation	Maryville Substation	1	345		1700	New 345 kV line from the Page County substation to the Maryville Substation with 161 kV underbuild and associated substation equipment additions.	IA/MO	0	35	Conceptual	\$63,000,000			Y	C
C	West	MEC	3237	6029	6/1/2020	Page County Substation		1	345	161	560	Construct a new 345-161 kV substation and associated substation equipment on the Booneville-Atchison County 345 kV line and the Clarinda-Hastings 161 kV line	IA			Conceptual	\$7,500,000			Y	C
C	West	MEC	3237	6028	6/1/2020	Avoca Substation		1	345	161	560	Expand the Avoca Substation to add a 345 kV Yard and a 345-161 kV transformer and associated substation equipment additions.	IA			Conceptual	\$7,500,000			Y	C
C	West	MEC	3238	6032	6/1/2019	CBEC	S3456	2	345		1700	New 345 kV line from the CBEC substation to OPPD's S3456 substation and associated substation equipment additions.	IA/NE		9.19	Conceptual	\$29,100,000			Y	C
C	West	MEC	3239	6033	6/1/2018	Bunge	Hastings	1	161		410	Rebuild the Bunge-Hastings 161 kV line and associated substation equipment additions.	IA	21	0	Conceptual	\$11,000,000			Y	C

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Target Appendix	Region	Geographic Location by TO Member System	ProjID	Facility ID	Expected ISD	From Sub	To Sub	Ckt	Max kV	MIR kV	Facility Rating	Facility Description	State	Miles Opp	Miles New	Plan Status	Estimated Cost	Cost Shared	Postage Stamp	MISO Facility	App ABC
C	West	MEC	3239	6034	12/1/2018	Hastings	Clarinda	1	161		410	Rebuild the Hastings-Clarinda 161 kV line and associated substation equipment additions.	IA	31.2	0	Conceptual	\$17,200,000			Y	C
C	West	MEC	3239	6035	12/1/2018	Clarinda	Page County Substation	1	161		410	Rebuild the Clarinda-Page County 161 kV line and associated substation equipment additions.	IA	2	0	Conceptual	\$900,000			Y	C
C	West	MEC	3240	6036	6/1/2020	Denison	Avoca	1	161		410	New 161 kV line from NIPCO's Denison substation to the Avoca Sub and associated substation equipment additions.	IA	0	38	Conceptual	\$20,900,000			Y	C
C	West	MEC	3241	6037	6/1/2018	CBEC	Sub 701	1	161		410	New 161 kV line from CBEC substation to Sub 701 and associated substation equipment additions.	IA	0	8.31	Conceptual	\$4,600,000			Y	C
C	West	MEC	3242	6038	6/1/2018	Quick	Sub 701	1	161		410	New 161 kV line from Quick substation to Sub 701 and associated substation equipment additions.	IA	0	14	Conceptual	\$7,700,000			Y	C
C	West	MEC	3243	6039	6/1/2016	Quick	Avoca	1	161		410	New 161 kV line from the Quick substation to the Avoca substation and associated substation equipment additions.	IA	0	21.3	Conceptual	\$11,700,000			Y	C
C	West	MEC	3244	6044	6/1/2017	Pleasant Corner Substation			161			New 161 kV substation	IA			Conceptual	\$3,500,000			Y	C
C	West	MEC	3244	6042	6/1/2017	Beacon	Pella	1	161		410	New 161 kV line from the Beacon substation to Pella and associated substation equipment additions.	IA	0	18	Conceptual	\$9,900,000			Y	C
C	West	MEC	3244	6040	6/1/2017	OGS	Pleasant Corner Substation	1	161		410	New 161 kV line from the OGS substation to the Pleasant Corner substation and associated substation equipment additions.	IA	0	15	Conceptual	\$8,250,000			Y	C
C	West	MEC	3244	6041	6/1/2017	Pleasant Corner Substation	Beacon	1	161		410	New 161 kV line from the Pleasant Corner substation-Beacon substation and associated substation equipment additions.	IA	0	11	Conceptual	\$6,000,000			Y	C
C	West	MEC	3245	6046	6/1/2017	Knoxville	Pella	1	161		410	New 161 kV line from the Knoxville substation to Pella and associated substation equipment additions.	IA	0	14	Conceptual	\$7,700,000			Y	C
C	West	MEC	3246	6065	6/1/2016	Webster South	Lehigh	1	161		410	Webster South-Lehigh 161 kV Line	IA	0	6.9	Conceptual	\$3,500,000			Y	C
C	West	MEC	3247	6066	6/1/2016	Lehigh	Lehigh		345	161	560	Lehigh 345-161 kV transformer	IA	0	0	Conceptual	\$7,500,000			Y	C
C	West	MEC	3248	6050	6/1/2016	DPS	DPS-Reasnor Switching Station	1	161		325	Bisect existing DPS-Reasnor 161 kV line and associated substation equipment additions.	IA		0.1	Conceptual	\$100,000			Y	C
C	West	MEC	3248	6049	6/1/2016	DPS-Reasnor Switching Station			161			New 161 kV breakered switching station off the DPS-Reasnor 161 kV line	IA			Conceptual	\$3,000,000			Y	C
C	West	MEC	3248	6048	6/1/2016	DPS-Reasnor Switching Station	East Altoona	1	161		410	New 161 kV line from switching station on DPS-Reasnor line to East Altoona and associated substation equipment additions.	IA	0	6	Conceptual	\$3,300,000			Y	C
C	West	MEC	3250	6056	6/1/2018	West Grand	88th St	1	161		410	West Grand-88th St 161 kV Line and associated substation equipment additions.	IA	0	3.3	Conceptual	\$1,800,000			Y	C
C	West	MEC	3251	6057	6/1/2018	Army Post	West Grand	1	161		410	Army Post-West Grand 161 kV Line and associated substation equipment additions.	IA	0	8	Conceptual	\$4,400,000			Y	C
C	West	MEC	3252	6058	6/1/2020	Norwalk	Scotch Ridge	1	161		410	Norwalk-Scotch Ridge 161 kV Line and associated substation equipment additions.	IA	0	8	Conceptual	\$4,400,000			Y	C
C	West	MEC	3252	6059	6/1/2020	Scotch Ridge			161	13.2	33	New 161 kV distribution substation	IA			Conceptual	\$2,700,000			Y	C
C	West	MEC	3253	6061	6/1/2020	Avon Lake			161	13.2	33	New 161 kV distribution substation and associated substation equipment additions.	IA			Conceptual	\$2,700,000			Y	C
C	West	MEC	3253	6060	6/1/2020	Scotch Ridge	Avon Lake	1	161		410	Scotch Ridge-Avon Lake 161 kV Line and associated substation equipment additions.	IA	0	5.5	Conceptual	\$3,000,000			Y	C
C	West	MEC	3254	6062	6/1/2020	Avon Lake	SE Polk	1	161		410	Avon Lake-SE Polk 161 kV Line and associated substation equipment additions.	IA	0	2.5	Conceptual	\$1,400,000			Y	C
C	West	MEC	3255	6063	6/1/2015	Sub 91	Cordova	1	345		1738	Sub 91-Cordova 345 kV Line and associated substation equipment additions.	IA/IL		18	Conceptual	\$23,400,000			Y	C

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Target Appendix	Region	Geographic Location by IO Member System	Proj ID	Facility ID	Expected SD	From Sub	To Sub	Ckt	Max KV	Min KV	Facility Rating	Facility Description	States	Miles Upp	Miles New	Plan Status	Estimated Cost	Cost Shared	Postage Stamp	MISO Facility	App ABC
C	West	MEC	3256	6064	6/1/2015	Sub 39	Cordova	1	345		1738	Sub 39-Cordova 345 kV Line and associated substation equipment additions.	IL		16	Conceptual	\$20,800,000			Y	C
C	West	MEC	3257	6081	6/1/2016	LeMars	Sioux County	1	161		410	New 161 kV line from a new LeMars substation to a new Sioux Co substation	IA	0	24	Conceptual	\$13,200,000			Y	C
C	West	MEC	3257	6084	6/1/2016	Sioux County Substation			161			New 161 kV substation	IA			Conceptual	\$3,500,000			Y	C
C	West	MEC	3257	6083	6/1/2016	Spencer	Sioux County	1	161		410	New 161 kV line from the Spencer substation to a new Sioux Co. substation	IA	0	50	Conceptual	\$27,500,000			Y	C
C	West	MEC	3257	6082	6/1/2016	Eagle	Sioux County	1	161		410	New 161 kV line from the Eagle substation to a new Sioux Co. substation	IA	0	18	Conceptual	\$9,900,000			Y	C
C	West	MEC	3258	6067	6/1/2020	Little Sioux	Monona	1	161		410	Little Sioux-Monona 161 kV line	IA	0	34	Conceptual	\$18,700,000			Y	C
C	West	MEC	3259	6068	6/1/2020	Carroll	Denison	1	161		410	Carroll-Denison 161 kV line	IA	0	30	Conceptual	\$16,500,000			Y	C
C	West	MEC	3260	6069	6/1/2020	Odebolt	Carroll	1	161		410	Odebolt-Carroll 161 kV line	IA	20	16	Conceptual	\$18,000,000			Y	C
C	West	MEC	3260	6070	6/1/2020	Odebolt	Carroll	1	345		1700	Odebolt-Carroll 345 kV line	IA	0	36	Conceptual	\$39,000,000			Y	C
C	West	MEC	3261	6071	6/1/2020	Wisdom	Buena Vista	1	345		1700	Wisdom-Buena Vista 345 kV line	IA	0	20	Conceptual	\$26,000,000			Y	C
C	West	MEC	3261	6073	6/1/2020	Sac County	Odebolt	1	345		1700	Sac County-Odebolt 345 kV line	IA	0	17	Conceptual	\$22,100,000			Y	C
C	West	MEC	3261	6072	6/1/2020	Buena Vista	Sac County	1	345		1700	Buena Vista-Sac County 345 kV line	IA	0	24	Conceptual	\$31,200,000			Y	C
C	West	MEC	3262	6074	6/1/2020	Odebolt	Grand Junction	1	345		1700	Odebolt-Grand Junction 345 kV line	IA	0	68	Conceptual	\$88,400,000			Y	C
C	West	MEC	3265	6079	6/1/2020	Carroll	Grand Junction	1	161		410	Carroll-Grand Junction 161 kV line	IA	32	0	Conceptual	\$16,000,000			Y	C
C	West	MEC	3267	6086	6/1/2016	NW Sioux City			230	69	150	NW Sioux City 230-69 kV Sub	IA			Conceptual	\$10,000,000			Y	C
C	West	MEC	3267	6087	6/1/2016	NW Sioux City	TWIN CH4	1	230		319	Bisect existing 230 kV line	IA		0.1	Conceptual	\$250,000			Y	C
C	West	MEC	3267	6088	6/1/2016	NW Sioux City	Sioux City	1	230		319	Bisect existing 230 kV line	IA		0.1	Conceptual	\$250,000			Y	C
C	West	MEC	3269	6092	6/1/2012	Black Hawk	Hazleton		161		410	Blackhawk-Hazleton 161 kV Rebuild (MEC Section)	IA	11.8		Planned	\$3,400,000			Y	C
C	West	MEC	3371	6242	12/31/2014	Hills	Parnell	1	161		278	Replace structures to increase operating temp.	IA			Proposed	\$90,000			Y	C
C	West	MEC	3372	6243	12/31/2014	Parnell	Poweshiek	1	161		289	Replace structures to increase operating temp.	IA			Proposed	\$540,000			Y	C
C	West	MEC	3477	6420	12/1/2014	Oak Grove	Galesburg	1	161	138	410	Rebuild Oak Grove - Galesburg 161 kV line	IL	32		Proposed				Y	C
C	West	MEC	3478	6421	12/31/2018	Webster	Wright	1	161		410	Rebuild Webster-Wright 161 kV line.	IA	11.77		Planned	\$6,768,000			Y	C
C	West	MEC	3478	6422	12/31/2018	Wright	Wall Lake	1	161		410	Rebuild Wright-Wall Lake 161 kV.	IA	11.65		Planned	\$6,700,000			Y	C
C	West	MEC	3478	6423	12/31/2018	Wall Lake	Franklin	1	161		410	Rebuild Wall Lake-Franklin 161 kV line.	IA	17.76		Planned	\$10,212,000			Y	C
C	West	MEC, ALTW	2193	4043	8/1/2018	Lehigh	Toledo	1	765		4008	new line	IA		97	Conceptual	\$313,000,000			Y	C
C	West	MEC, ITCM	3218	6005	12/31/2019	Scott County	Hazleton	1	765		4760	New 765 kV line from Scott County to Hazleton and associated substation equipment additions.	IA	0	145	Proposed	\$393,000,000			Y	C
C	West	MEC, ITCM	3220	6006	12/31/2019	Louisa	Hazleton	1	765		4760	New 765 kV line from Louisa to Hazleton and associated substation equipment additions.	IA	0	95	Proposed	\$257,000,000			Y	C
C	West	MEC, ITCM	3222	6009	12/31/2019	Hills	Hazleton	2	345		1700	New 345 kV line from Hills to Hazleton and associated substation equipment additions.	IA	0	55	Proposed	\$83,000,000			Y	C
C	West	MEC, ITCM	3223	6010	12/31/2019	Hazleton	Adams		345			New double circuit 345 kV line from Hazleton to Adams and associated substation equipment additions.	IA/MN	0	115	Proposed	\$227,000,000			Y	C
C	West	MEC, ITCM	3228	6016	12/31/2024	Hills	Hazleton	1	765		4760	New 765 kV line from Hills to Hazleton and associated substation equipment additions.	IA	0	55	Proposed	\$149,000,000			Y	C
C	West	MEC, ITCM	3235	6026	12/31/2029	Osceola County	Lakefield Jct.	1	765		4760	New 765 kV line from Osceola County to Lakefield Jct. and associated substation equipment additions.	IA/MN	0	85	Proposed	\$230,000,000			Y	C
C	West	MEC, ITCM	3236	6027	12/31/2029	Hazleton	Adams	1	765		4760	New 765 kV line from Hazleton to Adams and associated substation equipment additions.	IA/MN	0	115	Proposed	\$312,000,000			Y	C
C	West	MEC, ITCM	3244	6043	6/1/2017	Pella	Reasnor Switching Station	1	161		410	New 161 kV line from Pella to Reasnor Switching Station with 69 kV underbuild	IA	0	20	Conceptual	\$11,000,000			Y	C
C	West	MEC, ITCM	3245	6045	6/1/2017	Lucas County	Knoxville	1	161		410	New 161 kV line from Lucas County Substation to the Knoxville Substation and associated substation equipment additions.	IA	0	28	Conceptual	\$15,400,000			Y	C
C	West	MEC, ITCM	3245	6047	6/1/2017	Pella	Reasnor Switching Station	1	161		410	New 161 kV line from Pella to Reasnor Switching Station and associated substation equipment additions.	IA	0	20	Conceptual	\$11,000,000			Y	C

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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	Costs Shared	Postage Stamp	MISO Facility	App ABC
C	West	MEC, ITCM	3248	6051	6/1/2016	DPS-Reasnor Switching Station	Reasnor Switching Station	1	161		325	Bisect existing DPS-Reasnor 161 kV line and associated substation equipment additions.	IA		0.1	Conceptual	\$100,000			Y	C
C	West	MEC, ITCM	3249	6053	6/1/2016	NE Ankeny/Jasper County Sub			161			New 161 kV breakered switching station off the NE Ankeny-Jasper 161 kV line.	IA			Conceptual	\$3,000,000			Y	C
C	West	MEC, ITCM	3249	6054	6/1/2016	NE Ankeny	NE Ankeny/Jasper County Sub	1	161		240	Bisect existing NE Ankeny-Jasper County 161 kV line and associated substation equipment additions.	IA		0.1	Conceptual	\$100,000			Y	C
C	West	MEC, ITCM	3249	6055	6/1/2016	NE Ankeny/Jasper County Sub	Jasper County	1	161		240	Bisect existing NE Ankeny-Jasper County 161 kV line and associated substation equipment additions.	IA		0.1	Conceptual	\$100,000			Y	C
C	West	MEC, ITCM	3249	6052	6/1/2016	East Altoona	NE Ankeny/Jasper County Sub	1	161		410	New 161 kV line from East Altoona to a new sub off NE Ankeny/Jasper County line and associated substation equipment additions.	IA	0	8.3	Conceptual	\$4,600,000			Y	C
C	West	MEC, ITCM	3262	6075	6/1/2020	Grand Junction	Adair County	1	345		1700	Grand Junction-Adair County 345 kV line	IA	0	89	Conceptual	\$115,700,000			Y	C
C	West	MEC, ITCM	3263	6078	6/1/2020	Ottumwa	Sub T	1	345		1700	Ottumwa-Sub T 345 kV line	IA	0	70	Conceptual	\$100,500,000			Y	C
C	West	MEC, ITCM	3263	6076	6/1/2020	Adair County	Ottumwa	1	345		1700	Adair-Ottumwa 345 kV line	IA	0	100	Conceptual	\$143,500,000			Y	C
C	West	MEC, ITCM	3264	6077	6/1/2020	S.E. Polk	Ottumwa	1	161		410	S.E. Polk-Ottumwa 161 kV line	IA	0	80	Conceptual	\$40,000,000			Y	C
C	West	MEC, ITCM	3265	6080	6/1/2020	Grand Junction	Adair County	1	161		410	Grand Junction-Adair County 161 kV line	IA	0	89	Conceptual	\$44,500,000			Y	C
C	West	MH	3398	6273	12/31/2017	Dorsey	US/MB Border	1	500		1732	Dorsey-US/Manitoba Border 500 kV line	MB	80	80	Proposed	\$204,000,000			Y	C
C	West	MH, OTP	2180	4055	8/1/2018	Maple River	Transformer	1	500	230	1200	new transformer	ND			Conceptual	\$15,000,000			Y	C
C	West	MH, OTP	2180	4031	8/1/2018	Riel	Maple River	1	500		2673	new line	Manitoba/ND		203	Conceptual	\$344,000,000			Y	C
C	West	MH, OTP	2180	4054	8/1/2018	Riel	Transformer	1	500	115	430	new transformer	Manitoba			Conceptual	\$15,000,000			Y	C
C	West	MISO TSR	3085	5375	6/1/2017	Helena 500kV	Helena 345kV	2	500	345	1200	New transformer	MN			Proposed	\$60,000,000			Y	C
C	West	MISO TSR	3085	5374	6/1/2017	Helena 500kV	Helena 345kV	1	500	345	1200	New transformer	MN			Proposed	\$60,000,000			Y	C
C	West	MISO TSR	3085	5373	6/1/2017	Maple River 500kV	Helena 500kV	1	500		1732	New 500kV line Maple River to Helena	MN		200	Proposed	\$500,000,000			Y	C
C	West	MISO TSR	3085	5372	6/1/2017	Maple River 500kV	Maple River, 345kV	1	500	345	1200	New transformer	MN			Proposed	\$60,000,000			Y	C
C	West	MISO TSR	3085	5371	6/1/2017	Dorsey 500kV, Manitoba	Maple River 500kV, MN	1	500		1732	New 500kV line from Dorsey to Maple River	MN		200	Proposed	\$500,000,000			Y	C
C	West	MP	2548	4565	6/1/2019	Hilltop	Arrowhead		230		470	Upgrade 115 kV line to 230 kV	MN	10		Proposed		y		y	C
C	West	MP	2548	4564	6/1/2019	Hilltop	Substation Equipment		230	115	366	Add second 183 MVA 230/115 kV Transformer	MN			Proposed		y		y	C
C	West	MP	2551	4562	6/30/2014	Boswell	Deer River	1	115			Move 28L Tap to it own Breaker	MN		0.5	Proposed	\$1,250,000			Y	C
C	West	MP	2551	4563	6/30/2014	Boswell	Substation Equipment	1	115			115 kV Line entrance	MN			Proposed				Y	C
C	West	MP	2551	6590	6/30/2014	Boswell	Deer River	1	115		182	rebuild to higher capacity	MN	8	0	proposed				Y	C
C	West	Non-MISO	2773	4842	12/31/2020	Fort Thompson	New 765/345 kV substation	1	765	345	2640/3040 MV	Construct a new two TRF 765/345kV substation in SD. Substation will have two 765/345kV TRFs tying to the Fort Thompson 345kV system and three 765kV line terminals.	SD			Conceptual	\$205,000,000			Y	C
C	West	Non-MISO	2773	4851	12/31/2020	Plano	Line tap and terminal equipment	1	765	345	2640/3040 MV	Construct a new 765kV tap & associated 765kV terminal equipment into the Plano substation in IL.	IL			Conceptual	\$5,000,000			Y	C
C	West	Non-MISO	2773	4840	12/31/2020	Antelope Valley	New 765/345 kV substation	1	765	345	2640/3040 MV	Construct a new 765/345kV substation in ND. Substation will have a single 765/345kV TRF tying to the Antelope Valley 345kV system and a single 765kV line terminal.	ND			Conceptual	\$85,000,000			Y	C
C	West	Non-MISO	2773	4852	12/31/2020	Sullivan	Line tap and terminal equipment	1	765	345	2640/3040 MV	Construct a new 765kV tap & associated 765kV terminal equipment into the AEP Sullivan substation in IN.	IN			Conceptual	\$5,000,000			Y	C
C	West	OTP	2746	4769	11/1/2015	Turtle Lake 41.6 kV	Mercer 41.6 kV		41.6		30 MVA	Rebuild Existing 18-Mile 41.6 kV Line	ND			Proposed	\$500,000			NT	C
C	West	OTP	2773	4841	12/31/2020	North Dakota new substation	New 765/345 kV substation	1	765	345	2640/3040 MV	Construct a new 765/345kV substation in ND. Substation will have a single 765/345kV TRF and three 765kV line terminals.	ND			Conceptual	\$120,000,000			Y	C
C	West	OTP	2857	5010	12/31/2014	Green Valley 41.6 kV	Marshall 41.6 kV		41.6		34 MVA	Rebuild Existing 4-Mile 41.6 kV Line	MN			Proposed	\$550,000			Y	C

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Target Appendix	Region	Geographic Location by TO Member System	ProjID	Facility ID	Expected ISD	From Sub	To Sub	Qty	Max kv	Min kv	Facility Rating	Facility Description	State	Miles Ubg	Miles New	Plan Status	Estimated Cost	Cost Shared	Postage Stamp	MISO Facility	App ABC
C	West	OTP	3484	6441	7/1/2015	Big Stone 230 kv	Big Stone 13.8 kv	1	230	13.8	50 MVA	Install a new 230/13.8 kv transformer to accommodate a new load increase at Big Stone related to new pollution control equipment	SD			Proposed	\$3,000,000			Y	C
C	West	OTP	3513	6492	3/31/2015	Bison	345/230 transformer	2	345	230	336	new transformer and terminal works	ND			Planned	\$8,817,500			Y	C
C	West	OTP	3513	6491	3/31/2015	Bison	345/230 transformer	1	345	230	336	new transformer and terminal works	ND			Planned	\$8,817,500			Y	C
C	West	OTP_GRE	2225	4099	8/1/2018	Willmar	Big Stone	1	345		972	new line	MN/SD		75	Conceptual	\$159,000,000			Y	C
C	West	OTP_GRE	2225	4101	8/1/2018	Crow River	Big Swan	1	345		1000	new line	MN		25.3	Conceptual	\$54,000,000			Y	C
C	West	OTP_GRE	2225	4131	8/1/2018	Willmar	Transformer	1	345	230	336	new transformer	MN			Conceptual	\$10,000,000			Y	C
C	West	OTP_GRE	2225	4133	8/1/2018	Crow River	Transformer	1	345	115	448	new transformer	MN			Conceptual	\$10,000,000			Y	C
C	West	OTP_GRE	2225	4132	8/1/2018	Big Swan	Transformer	1	345	115	448	new transformer	MN			Conceptual	\$10,000,000			Y	C
C	West	OTP_GRE	2225	4100	8/1/2018	Big Swan	Willmar	1	345		1000	new line	MN		40	Conceptual	\$85,000,000			Y	C
C	West	OTP_MDU	2219	4115	8/1/2018	Ellendale	Transformer	1	345	230	336	new transformer	ND			Conceptual	\$10,000,000			Y	C
C	West	OTP_MDU	2219	4091	8/1/2018	Ellendale	Maple River	1	345		740	new line	ND		103	Conceptual	\$229,000,000			Y	C
C	West	OTP_NON-MISO	2182	4083	8/1/2018	Maple River	Watertown	1	345		600	new line	ND/SD		142	Conceptual	\$202,000,000			Y	C
C	West	OTP_XEL	2181	4032	8/1/2018	Maple River	Blue Lake	1	500		1540	new line	SD/MN		222	Conceptual	\$381,000,000			Y	C
C	West	OTP_XEL	2181	4056	8/1/2018	Blue Lake	Transformer	1	500	345	2000	new transformer	MN			Conceptual	\$20,000,000			Y	C
C	West	OTP_XEL	2224	4129	8/1/2018	Morris	Transformer	1	345	230	336	new transformer	MN			Conceptual	\$10,000,000			Y	C
C	West	OTP_XEL	2224	4098	8/1/2018	Morris	Johnson Junction	1	345		1000	new line	MN		16	Conceptual	\$34,000,000			Y	C
C	West	OTP_XEL	2224	4128	8/1/2018	Morris	Alexandria	1	345		1000	new line	MN		44	Conceptual	\$93,000,000			Y	C
C	West	OTP_XEL	2224	4097	8/1/2018	Johnson Junction	Big Stone	1	345		1000	new line	SD/MN		32	Conceptual	\$68,000,000			Y	C
C	West	OTP_XEL	2224	4130	8/1/2018	Johnson Junction	Transformer	1	345	230	336	new transformer	MN			Conceptual	\$10,000,000			Y	C
C	West	OTP_XEL	3204	5950	12/31/2015	Sheyenne 230 kv	Audubon 230 kv	1	230		350 MVA	Upgrade Existing 230 kv line for Maple River Wind Interconnection by replacing structures to increase operating temperature of line.	ND/MN	44		Planned	\$6,000,000			Y	C
C	West	XEL	2177	4019	6/1/2016	West Waconia	Blue Lake	1	345		2066 MVA	Upgrade McLeod - Blue Lake 230 kv line to double circuit 345 kv with a step down to 115 kv at WestWaconia.	MN			Proposed				Y	C
C	West	XEL	2177	4020	6/1/2016	West Waconia	transformer	1	345	115	448 MVA	345/115 kv transformer at West Waconia	MN			Proposed				Y	C
C	West	XEL	2177	4018	6/1/2016	McLeod	Blue Lake	2	345		2066 MVA	Upgrade McLeod - Blue Lake 230 kv line to double circuit 345 kv with a step down to 115 kv at WestWaconia.	MN			Proposed				Y	C
C	West	XEL	2177	4017	6/1/2016	McLeod	West Waconia	1	345		2066 MVA	Upgrade McLeod - Blue Lake 230 kv line to double circuit 345 kv with a step down to 115 kv at WestWaconia.	MN			Proposed				Y	C
C	West	XEL	2177	4016	6/1/2016	Hazel	McLeod	2	345		2066 MVA	Upgrade Minn Valley - McLeod 230 kv line to double circuit 345 kv	MN			Proposed				Y	C
C	West	XEL	2177	4015	6/1/2016	Hazel	McLeod	1	345		2066 MVA	Upgrade Minn Valley - McLeod 230 kv line to double circuit 345 kv	MN			Proposed				Y	C
C	West	XEL	2184	4052	8/1/2018	Blue Earth	Transformer	1	765	345	2767.5	new transformer	MN			Conceptual	\$20,000,000			Y	C
C	West	XEL	2184	4078	8/1/2018	Blue Earth	Split Rock	1	345		628	new line	SD/MN		130	Conceptual	\$185,000,000			Y	C
C	West	XEL	2185	4058	8/1/2018	Adams	Transformer	1	765	345	2767.5	new transformer	MN			Conceptual	\$15,000,000			Y	C
C	West	XEL	2186	4085	8/1/2018	Sherbourne County	Chisago County	1	345		1000	new line	MN		48.4	Conceptual	\$69,000,000			Y	C
C	West	XEL	2187	4079	8/1/2018	SW Minneapolis	Sherbourne County	1	345		1000	new line	MN		47.9	Conceptual	\$68,000,000			Y	C
C	West	XEL	2188	4035	8/1/2018	SW Minneapolis	Hampton Corner	1	765		4008	new line	MN		93	Conceptual	\$260,000,000			Y	C
C	West	XEL	2189	4086	8/1/2018	Hampton Corner	Chisago County	1	345		972	new line	MN		72.2	Conceptual	\$103,000,000			Y	C
C	West	XEL	2191	4036	8/1/2018	SW Minneapolis	Blue Earth	1	765		4776	new line	MN		73	Conceptual	\$215,000,000			Y	C
C	West	XEL	2217	4110	8/1/2018	West Waconia	Blue Lake	2	345		2066	new line	MN		20	Conceptual	\$25,000,000			Y	C
C	West	XEL	2217	4109	8/1/2018	West Waconia	Blue Lake	1	345		2066	new line	MN		20	Conceptual	\$25,000,000			Y	C
C	West	XEL	2217	4088	8/1/2018	West Waconia	Hazel	1	345		800	new line	MN		92.3	Conceptual	\$112,000,000			Y	C
C	West	XEL	2222	4121	8/1/2018	West Waconia	Transformer	2	345	230	448	new transformer	MN			Conceptual	\$10,000,000			Y	C
C	West	XEL	2222	4093	8/1/2018	West Waconia	McLeod	1	230		600	new line	MN		26	Conceptual	\$78,000,000			Y	C
C	West	XEL	2222	4118	8/1/2018	Minnesota Valley	Panther	1	230		600	Rebuild Line	MN	30.4		Conceptual	\$91,000,000			Y	C
C	West	XEL	2222	4120	8/1/2018	West Waconia	Transformer	1	345	230	448	new transformer	MN			Conceptual	\$10,000,000			Y	C
C	West	XEL	2222	4119	8/1/2018	McLeod	Panther	1	230		600	Rebuild Line	MN	28.2		Conceptual	\$85,000,000			Y	C
C	West	XEL	2226	4134	8/1/2018	Adams	Pleasant Valley	2	345		1000	new line	MN		16.8	Conceptual	\$39,000,000			Y	C
C	West	XEL	2226	4135	8/1/2018	Byron	Pleasant Valley	2	345		1000	new line	MN		16.3	Conceptual	\$38,000,000			Y	C

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C	West	XEL	2226	4136	8/1/2018	North Rochester	Byron	2	345		1000	new line	MN		10	Conceptual	\$24,000,000			Y	C
C	West	XEL	2227	4139	8/1/2018	Crow River	West Waconia	1	345		1000	new line	MN		23.9	Conceptual	\$34,000,000			Y	C
C	West	XEL	2227	4140	8/1/2018	West Waconia	Helena	1	345		1000	new line	MN		26	Conceptual	\$37,000,000			Y	C
C	West	XEL	2227	4138	8/1/2018	Dickinson	Crow River	1	345		1000	new line	MN		3.8	Conceptual	\$6,000,000			Y	C
C	West	XEL	2227	4137	8/1/2018	Monticello	Dickinson	1	345		1000	new line	MN		17.4	Conceptual	\$25,000,000			Y	C
C	West	XEL	2773	4846	12/31/2020	Adams	New 765/345 kV substation	1	765	345	2640/3040 MV	Construct a new 765/345kV substation in MN. Substation will have a single 765/345kV TRF tying to the Adams 345kV system and a four 765kV line terminals.	MN			Conceptual	\$135,000,000			Y	C
C	West	XEL	2773	4843	12/31/2020	Chisago	New 765/345 kV substation	1	765	345	2640/3040 MV	Construct a new 765/345kV substation in MN. Substation will have a single 765/345kV TRF tying to the Chisago Co. 345kV system and two 765kV line terminals.	MN			Conceptual	\$110,000,000			Y	C
C	West	XEL, ALTW	2212	4044	8/1/2018	Adams	Rock Creek	1	765		2808	new line	MN/IA		204	Conceptual	\$627,000,000			Y	C
C	West	XEL, ATC LLC	2210	4060	8/1/2018	Longwood	Chisago County	1	345		692	new line	MN/WI		116	Conceptual	\$165,000,000			Y	C
C	West	XEL, GRE, OTP, M	3398	6283	12/31/2017	Alexandria SS	Quarry	2	345		2085	Alexandria SS-Quarry 345 kV 2nd ckt	MN	65	65	Proposed	\$15,000,000			Y	C
C	West	XEL, GRE, OTP, M	3398	6281	12/31/2017	Bison	SD/MN Border	2	345		2085	Bison-SD/MN Border 345 kV 2nd ckt	ND	20	20	Proposed	\$5,000,000			Y	C
C	West	XEL, GRE, OTP, M	3398	6284	12/31/2017	Quarry	Monticello	2	345		2085	Quarry-Monticello 345 kV 2nd ckt	MN	30	30	Proposed	\$8,000,000			Y	C
C	West	XEL, GRE, OTP, M	3398	6282	12/31/2017	SD/MN Border	Alexandria SS	2	345		2085	SD/MN Border-Alexandria SS 345 kV 2nd ckt	MN	110	110	Proposed	\$24,000,000			Y	C
C	West	XEL, GRE, OTP, M	3398	6279	12/31/2017	Brookings	Transformer	1	500	345	1200	Brookings 1200 MVA345/500 kV transformer	SD			Proposed	\$25,000,000			Y	C
C	West	XEL, GRE, OTP, M	3398	6278	12/31/2017	Bison	Transformer	1	500	345	1200	Bison 1200 MVA 345/500 kV transformer	ND			Proposed	\$25,000,000			Y	C
C	West	XEL, GRE, OTP, M	3398	6277	12/31/2017	Brookings	Split Rock	1	500		1732	Brookings-Split Rock 500 kV line	SD	95	95	Proposed	\$325,000,000			Y	C
C	West	XEL, GRE, OTP, M	3398	6276	12/31/2017	ND/SD Border	Brookings	1	500		1732	ND/SD Border-Brookings 500 kV line	SD	130	130	Proposed	\$349,000,000			Y	C
C	West	XEL, GRE, OTP, M	3398	6274	12/31/2017	US/MB Border	Bison	1	500		1732	US/Manitoba Border-Bison 500 kV line	ND	165	165	Proposed	\$421,000,000			Y	C
C	West	XEL, GRE, OTP, M	3398	6275	12/31/2017	Bison	ND/SD Border	1	500		1732	Bison-ND/SD Border 500 kV line	ND	75	75	Proposed	\$201,000,000			Y	C
C	West	XEL, GRE, OTP, M	3398	6280	12/31/2017	Split Rock	Transformer	1	500	345	1200	Split Rock 1200 MVA345/500 kV transformer	SD			Proposed	\$25,000,000			Y	C
C	West	XEL, MEC	2192	4057	8/1/2018	Lehigh	Transformer	1	765	345	2767.5	new transformer	IA			Conceptual	\$15,000,000			Y	C
C	West	XEL, MEC	2192	4033	8/1/2018	Blue Earth	Lehigh	1	765		4368	new line	MN/IA		85	Conceptual	\$258,000,000			Y	C
C	West	XEL, Non-MISO	2183	4084	8/1/2018	Watertown	Split Rock	1	345		800	new line	SD		92.4	Conceptual	\$131,000,000			Y	C
C	West, Central	ITCM, AmerenIL	2785	4894	5/1/2014	New Substation in NW Iowa	Sorenson	1	800		6400	new +/- 800kV DC line	IA, IL, IN		667	Proposed				Y	C