

ATC 2017 10-Year Assessment (TYA) Preliminary Network Continuing Needs

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1	Continuing System Need Solutions	2015 TYA Network Need Year	2016 TYA Network Need Year	2017 TYA Network Need Year	Planning Zone	Need Category	MISO MTEP 17 Appendix Status	MTEP PRJID
2	Portage-Trienda 138-kV uprate X-67	2018**	2018**	2022**	3b	reliability (69P1.2)	A	1624
3	Construct Cardinal-Blount 138-kV line	2030	>2031	2032	3a	reliability (P6)	--	1730
4	City Limits 138-kV bus reconductor	2020	2026	>2032	4	reliability (P3.2)	A	8640
5	Winona - Atlantic 69-kV line rebuild Winona69	2022	2026	>2032	2	reliability (69 prior + P1.2)	--	4727
6	Aviation - North Fond du Lac 138-kV rebuild G-111	2025	>2031	>2032	4	reliability (P3.2)	--	--
7	Arcadian-Waukesha 138-kV lines KK9942/KK9962 rebuild	2029	2027	>2032	5	reliability (P3.2, P1.2)	A	1270
8	Colley Road Substation: Install 2nd 100 MVA 138/69kV transformer	2023	>2031	>2032	3b	reliability (69P1.2, 69P2.1 ,69P1.3)	B	7585
9	Zone 2 switching initiative	ASAP***	ASAP***	ASAP***	2	operating flexibility	--	--
10	Bay Lake: Benson Lake Substation -- Construct new 138-kV substation and install 150 Mvar SVC (near Amberg Substation)	ASAP***	ASAP***	ASAP***	2	reliability (various TPL categories)	A	3679
11	Oak Creek - Hayes 138-kV line 811 uprate and reconfiguration	ASAP***	ASAP***	ASAP***	5	reliability (P7)	A	9934
12	Bay Lake: Morgan Substation -- reconfigure and expand 345-kV and 138-kV switchyards	ASAP***	ASAP***	ASAP***	4	reliability (various TPL categories)	A	3679
13	Bay Lake: North Appleton - Morgan 138 kV line construction	ASAP***	ASAP***	ASAP***	4	reliability (various TPL categories)	A	3952
14	Bay Lake: North Appleton - Morgan 345 kV line construction	ASAP***	ASAP***	ASAP***	4	reliability (various TPL categories)	A	3679
15	Bay Lake: North Appleton Substation -- Construct new 345-kV switchyard and reconfigure 138-kV switchyard	ASAP***	ASAP***	ASAP***	4	reliability (various TPL categories)	A	3679
16	Southeastern Wisconsin Northeastern Illinois Reinforcement Project	ASAP***	ASAP***	ASAP***	5	reliability(P7.1)	A	8065
17	Y-121: re-rate 1.2 miles of 69 kV line between Council Creek and Tomah Industrial Park	2015	2015	2015	1	reliability (P1), operating flexibility	targeted A	9928
18	Atlantic Substation: Reconfiguration	2019	2019	2019	2	operating flexibility, reliability (69P5)	B	7586
19	Bain - Spring Valley 138-kV uprate 63141	2019	2019	2019	3b & 5	T-D interconnection, reliability (69P1.2)	A	3808
20	Construct a new 138/69-kV substation on Spring Valley - North Lake Geneva 138-kV circuit	2019	2019	2019	3b & 5	T-D interconnection, reliability (69P1.2)	A	3808
21	Construct a new 69-kV circuit from Twin Lakes to the new substation	2019	2019	2019	3b & 5	T-D interconnection, reliability (69P1.2)	A	3808
22	Construct a new Spring Valley-North Lake Geneva 138-kV circuit	2019	2019	2019	3b & 5	T-D interconnection, reliability (69P1.2)	A	3808
23	Twin Lakes - Katzenberg 69-kV rebuild Y-102	2019	2019	2019	3b & 5	T-D interconnection, reliability (69P1.2)	A	3808
24	Presque Isle - Tilden 138 kV line loop into National and uprate National - Tilden 138 kV line	2019	2019	2019	2	reliability (prior + P1.2)	B	3838
25	Spare Reactor Purchase		2020	2020	1, 3a	P0	--	--
26	Saukville Substation: Install parallel breaker on line 8222	2020	2020	2020	5	reliability (P2.1)	--	--
27	Port Washington - Saukville: Rebuild Line 762 to a double circuit		2021	2021	5	reliability (P2.4, P7.1)	A	9986
28	Arcadian Substation: install redundant bus differentials on 345-kV and 138-kV buses	2023	2023	2023	5	reliability (stability E2.D)	--	--
29	Granville Substation: install redundant bus differentials on 345-kV and 138-kV buses	2023	2023	2023	5	reliability (stability E2.D)	--	--
30	Gran Grae Substation: Install a second 161/69 kV transformer		2026*	2026	3a	reliability (69P1.3)	--	--
31	West Marinette Substation: Install 138-kV circuit switchers on 138/69-kV transformers	2014***	2014***	2014***	4	reliability (various TPL categories)	A	9080
32	Bain - Albers 138-kV line uprate 63143	2016**	2016**	2016**	5	reliability (P1.2)	A	3900

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33	Browntown 69-kV Bus Rerate		2017*	2017*	3a	reliability (69P1.2)	targeted A	12099
34	Tomahawk Substation: Install bus tie breaker to sectionalize		2017***	2017***	1	T-D Interconnection	A	10523
35	White Lake Substation: Install line breaker to sectionalize		2017***	2017***	1	T-D Interconnection	A	11224
36	Canal Substation: Install 138-kV breakers on 138/69-kV transformers	2017***	2017***	2017***	4	operating flexibility, reliability (69P1.3)	A	7983
37	Canal Substation: Install redundant bus differentials on 138-kV buses	2017***	2017***	2017***	4	reliability (P5.5)	A	7985
38	Creekview Substation: 138 kV line construction to serve T-D interconnection	2017***	2017***	2017***	4	T-D interconnection	A	4353
39	Esker View Substation: loop LYNG11 in and out		2017***	2017***	4	T-D interconnection	A	7780
40	Mukwonago Substation: Install line breaker on line 67K61	2017***	2017***	2017***	5	operating flexibility	A	9923
41	Reconfigure the North Randolph-Ripon 69-kV line to form a second Ripon-Metomen 69-kV line and retire the circuit between Metomen and the Mackford Prairie tap	2018*	2018*	2018*	1	reliability (69P1.2), condition	A	1708
42	Branch River Substation: Construct new 345-kV switching station	2018*	2018*	2018*	4	new generation	A	3206
43	Colley Road-Brick Church 69-kV rebuild Y-32	2018*	2018*	2018*	3b	reliability (P1.2, 69P1.3, 69P7, P6), condition	A	2031
44	West Middleton-Stage Coach 69-kV uprate 6927, short term fix	2018**	2018**	2018**	3a	reliability (P1.2, 69P1.3, P2.1)	A	3159
45	University/Whitewater line reconfiguration	2018**	2018**	2018**	3b	reliability (P1.2)	A	4728
46	Cardinal - North Madison 345 kV line		2018***	2018***	3a	reliability, economics and policy benefits	A	3127
47	Pershing Substation: Loop Stone Lake - Gardner Park 345-kV line into new Pershing 345/115-kV Substation	2018***	2018***	2018***	1	T-T interconnection	B	9925
48	Lawn Rd Substation: Install 138-kV breakers to sectionalize 138-kV circuit 6851		2018***	2018***	4	operating flexibility	targeted A	12174
49	Forest Junction 138kV Substation: Install 25 Mvar inductor	>2030	2018***	2018***	4	system intact (P0)	targeted A	7581
50	Highway V Substation: Install 138-kV breakers and 69-kV circuit switchers on 138/69-kV transformers	2018***	2018***	2018***	4	operating flexibility, reliability (prior + 69P1.3)	targeted A	7986
51	Ogden St. Networking Project: Ogden St. - Bayshore 69-kV line construction	2018*	2018***	2018***	4	T-D interconnection	A	4732
52	Oakview Substation: loop 836 in and out		2018***	2018***	5	T-D Interconnection	A	10563
53	St Martins Substation: Add new 138 kV bus and bus tie breaker		2018***	2018***	5	T-D Interconnection	A	10643
54	North Madison - Briggs Road 345 kV line		2018***	2018***	1, 3	reliability, economics and policy benefits	A	3127
55	Ellinwood 138-kV Bus Rerate		2019*	2019*	4	reliability (P6)	targeted A	12103
56	M13-Reinforcement-Bunker Hill-Blackbrook	2019**	2019**	2019**	1	reliability (P1.2)	A	7602/7603
57	Birchwood Substation: Install a bus tie breaker	2017***	2019***	2019***	3b	T-D interconnection	A	9921
58	Forest Junction 138-kV Substation: Install redundant bus differential	2019***	2019***	2019***	4	reliability (stability E2.D)	--	--
59	Pulliam 138-kV Substation: Install redundant bus differential		2019***	2019***	4	reliability (stability P5.5)	--	--
60	Somers Substation: Close the N.O. Somers - Albers 138-kV line and install N.O. bus tie breaker at Somers	2019***	2019***	2019***	5	T-D interconnection	A	8660
61	Williams Bay Substation: Loop X44 in and out	2016***	2019***	2019***	3b	T-D interconnection	A	4421
62	Lost Dauphin - Red Maple 138 kV line uprate Q-147		2020***	2020***	4	reliability (various TPL categories)	targeted A	9930
63	Depere - Glory Rd 138-kV overhead line rebuild	2020***	2020***	2020***	4	reliability (various TPL categories)	A	9081
64	Baker St Substation: Add new 115-kV bus and bus tie breaker		2020***	2020***	1	T-D Interconnection	targeted A	12115

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65	Highway V - Preble 138-kV line uprate	2020***	2020***	2020***	4	reliability (various TPL categories)	B	8082
66	West Middleton - Stagecoach 69 kV line rebuild 6927	2018**	2023**	2023**	3a	reliability (P1.2, P1.3)	targeted B	12175
67	Plains - Arnold 138-kV uprate	2020***	2023***	2023***	2	reliability (various TPL categories)	B	8073
68	Plains - National 138-kV project	2020***	2023***	2023***	2	reliability (various TPL categories)	A	8071
69	Plains 345/138-kV project (2-500 MVA replace existing)	2020***	2023***	2023***	2	reliability (various TPL categories)	B	8073
70	Morgan - Plains 345-kV loop into new Thunder 345-kV substation.	2020***	2023***	2023***	4	reliability (various TPL categories)	B	8076
71	Morgan - Thunder 138-kV project	2020***	2023***	2023***	4	reliability (various TPL categories)	B	8076
72	Thunder Substation: install 345/138-kV and 138/69-kV transformers, convert 1 ckt of Thunder to Crivitz to 138-kV	2020***	2023***	2023***	4	reliability (various TPL categories)	B	8076
73	Cardinal - Hickory Creek 345-kV line construction	2020***	2023***	2023***	3a	reliability, economics and policy benefits	A	3127
74	Lakota Rd to Winona 138-kV Conversion		2021***	2025***	2	reliability (prior + P1.2), condition	B	8089
75	Portage - Columbia 138-kV line rebuild X-13	2030	2027	2027	3b	reliability (P1.2)	--	4730
76	Portage - Columbia 138-kV line rebuild X-20	2030	2027	2027	3b	reliability (P1.2)	--	4730
77								
78								
79	Legend							
80	* = dates based on approved project scope ISDs							
81	** = SBRM Study Need Year							
82	*** = Other Major Project Study need year							
83	No Shading = No change to project since previous Assessment							
84	Green Shading = need year change							