Table AR-1	
Transmission System Additions – Asset Renewal Line Wo	ork

System Additions	Projected In-Service Year	Planning Zone	Need Category
Partial Rebuild Castle Rock - Hilltop (ALTE) 69kV Y39	2014	1	Improve condition and increase reliability performance of existing line
Rebuild Wautoma - Montello 69-kV line Y17	2015	1	Improve condition and increase reliability performance of existing line
Rebuild North Point - Rocky Run 115-kV line T-20	2016	1	Improve condition and increase reliability performance of existing line.
Rebuild Lincoln Pump Sta McKenna 69kV Y145	2018	1	Improve condition and increase reliability performance of existing line
Rebuild McKenna - Castle Rock 69kV Y47	2019	1	Improve condition and increase reliability performance of existing line
Rebuild Wautoma - Chaffee Creek 69kV Y49	2019	1	Improve condition and increase reliability performance of existing line
Rebuild Whiting Avenue-Plover 115-kV line B-106	2019	1	Improve condition and increase reliability performance of existing line
Rebuild Wautoma - Harrison 69kV Y19	2020	1	Improve condition and increase reliability performance of existing line
Partial rebuild Coyne - Saratoga 115-kV line T-72	2020	1	Improve condition and increase reliability performance of existing line
Partial rebuild Petenwell - Saratoga 138-kV line X-43	2020	1	Improve condition and increase reliability performance of existing line
Partial rebuild Coyne - Plover 115-kV line J-114	2020	1	Improve condition and increase reliability performance of existing line
Rebuild Lincoln Pump Sta Chaffee Creek 69kV Y18	2021	1	Improve condition and increase reliability performance of existing line
Rebuild West Wisconsin Rapids – Sigel 69kV Y45	2021	1	Improve condition and increase reliability performance of existing line
Re-insulate Munising - Gwinn 69-kV line (Autrain line) – Double circuited portion with Munising 138	2013	2	Improve condition and increase reliability performance of existing line
Partial rebuild Munising-Gwinn 69-kV line (Autrain line) – Single circuit portion	2013	2	Improve condition and increase reliability performance of existing line
Rebuild Atlantic - M38 69-kV line (Atlantic 69 line)	2013	2	Improve condition and increase reliability performance of existing line

Table AR-1	
Transmission System Additions – Asset Renewal Line Work (Co	ontinued)

System Additions	Projected In-Service Year	Planning Zone	Need Category
Re-insulate Portage - 9 Mile 69-kV lines 6901/6902	2014	2	Improve condition and increase reliability performance of existing line
Re-insulate Sawyer-Gwinn 69-kV line (Sawyer line)	2014	2	Improve condition and increase reliability performance of existing line
Partial rebuild Pine River-Hiawatha 69-kV line ESE_6908	2015	2	Improve condition and increase reliability performance of existing line
Partial rebuild Blaney Park-Munising 69-kV line (Inland line)	2016	2	Improve condition and increase reliability performance of existing line
Partial rebuild Conover-Mass 69-kV line 6530	2018	2	Improve condition and increase reliability performance of existing line
Partial rebuild Powers-Chalk Hill 69-kV line 6910	2018	2	Improve condition and increase reliability performance of existing line
Rebuild Doylestown - Rio Pumping station 69-kV line Y20	2013	3	Improve condition and increase reliability performance of existing line
Rebuild Paddock – Shaw 69kV 69-kV line Y54	2014	3	Improve condition and increase reliability performance of existing line
Rebuild Portage - Dam Heights 69-kV line Y16	2015	3	Improve condition and increase reliability performance of existing line
Rebuild Eden - Hillman 69-kV line Y105	2015	3	Improve condition and increase reliability performance of existing line
Rebuild Rubicon - Concord 138-kV line 9061	2016	3	Improve condition and increase reliability performance of existing line
Rebuild Rubicon - Butler Ridge 138-kV line RUBG11	2016	3	Improve condition and increase reliability performance of existing line
Rebuild Butler Ridge - Hartford 138-kV line HTFG51	2016	3	Improve condition and increase reliability performance of existing line
Rebuild Boscobel - Lone Rock 69-kV line Y124	2018	3	Improve condition and increase reliability performance of existing line
Rebuild South Beaver Dam - Horicon 69kV Y134	2020	3	Improve condition and increase reliability performance of existing line

System Additions	Projected In-Service Year	Planning Zone	Need Category
Rebuild Butte des Morts - North Appleton 138-kV line 6853	2014	4	Improve condition and increase reliability performance of existing line
Rebuild Lost Dauphin – Glenview 69-kV line F-6	2014	4	Improve condition and increase reliability performance of existing line
Partial Rebuild North Appleton – Kewaunee SW YD 345kV R-304	2015	4	Improve condition and increase reliability performance of existing line
Rebuild Sawyer - Dyckesville 69-kV line DYKY21	2016	4	Improve condition and increase reliability performance of existing line
Rebuild Pioneer - Sobieski 69-kV line E-83 Tap	2018	4	Improve condition and increase reliability performance of existing line
Rebuild Sobieski - Bayport 69-kV line T-98	2018	4	Improve condition and increase reliability performance of existing line
Rebuild Highway V - Oak Street 69-kV line Z-26	2018	4	Improve condition and increase reliability performance of existing line
Rebuild Danz - Finger Road 69-kV line L-64	2018	4	Improve condition and increase reliability performance of existing line
Rebuild Finger Road - Highway V 69-kV line U-47	2018	4	Improve condition and increase reliability performance of existing line
Rebuild Custer - New Holstein 69-kV line P-68	2019	4	Improve condition and increase reliability performance of existing line
Rebuild Goodman - Caldron Falls 69-kV line J-88	2019	4	Improve condition and increase reliability performance of existing line
Partial rebuild Howard - Pulliam 138-kV line D-82	2019	4	Improve condition and increase reliability performance of existing line
Rebuild Neevin - Butte Des Morts 138-kV line 43021	2020	4	Improve condition and increase reliability performance of existing line
Rebuild Manrap - Wesmark 69-kV line R-44	2020	4	Improve condition and increase reliability performance of existing line
Rebuild Sunset Point-Mears - Woodenshoe - Neevin 138-kV lines A-79, MCRG21 and 80952	2020	4	Improve condition and increase reliability performance of existing line

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 Transmission System Additions – Asset Renewal Line Work (Continued)

System Additions	Projected In-Service Year	Planning Zone	Need Category
Rebuild Finger Road – Canal 69-kV line J-10	2020	4	Improve condition and increase reliability performance of existing line
Rebuild Hartford - St. Lawrence 138-kV line 8031	2014	5	Improve condition and increase reliability performance of existing line
Rebuild Cooney - Concord 138-kV line 9042	2015	5	Improve condition and increase reliability performance of existing line
Partial rebuild Merrill Hills - Waukesha 138-kV line 7021	2015	5	Improve condition and increase reliability performance of existing line
Rebuild Albers - Paris 138-kV line 3124	2016	5	Improve condition and increase reliability performance of existing line
Rebuild St. Martins - Edgewood 138-kV line 3013	2017	5	Improve condition and increase reliability performance of existing line
Rebuild and add breaker on Edgewood - Mukwonago 138-kV line 671K61	2017	5	Improve condition and increase reliability performance of existing line
Partial rebuild Summit - Merrill Hills 138-kV line 3551	2017	5	Improve condition and increase reliability performance of existing line
Rebuild Oak Creek SW YD – Hayes 138-kV line 811	2019	5	Improve condition and increase reliability performance of existing line
Rebuild Summit -Cooney 138-kV line 6431	2021	5	Improve condition and increase reliability performance of existing line
Rebuild Paris – Burlington 138-kV line 8962	2021	5	Improve condition and increase reliability performance of existing line
Rebuild St. Lawrence – Barton 138-kV line 8032	2022	5	Improve condition and increase reliability performance of existing line
Rebuild Barton – Auburn 138-kV line 9752	2022	5	Improve condition and increase reliability performance of existing line

Table AR-1 Transmission System Additions – Asset Renewal Line Work (Continued)