

Table PR-23

Summary of Cancellations, Deferrals, Changes, Possible Changes and New Projects for the 2009 10-Year Assessment

PROJECTS CANCELED	Former In-Service Date	Planning Zone	Reason for Removal
A second distribution transformer at Somers Substation requires a rebuild of the Racine-Somers-Albers 138-kV line; extend Albers 138-kV bus to permit connecting the Racine-Somers-Albers radial line to the Albers 138-kV bus	2011	5	Updated study results
Construct a 345-kV bus at Bain Substation	2008	5	Updated study results
Install a second 138/69-kV transformer at McCue Substation	2016	3	Updated study results
Upgrade Bain-Kenosha 138-kV line	2013	5	Equipment replaced during construction of another project
Install 2-16.3 MVAR capacitor bank at Mears Corners 138-kV Substation	TBD	4	Updated load/model information
Install 2-16.3 MVAR capacitor bank at Rosiere 138-kV Substation	TBD	4	Updated load/model information
Construct Evansville-Brooklyn 69-kV line	TBD	3	Updated load/model information
Construct Verona-North Monroe 138-kV line	TBD	3	Updated load/model information
Replace the 1200 A breaker at Edgewater T22 345/138-kV transformer	TBD	4	Equipment replaced during construction of another project
Uprate 138-kV line from Kewaunee to East Krok	TBD	4	Updated load/model information
Rebuild Blaney Park-Munising 69 kV to 138 kV	2014	2	Upper Peninsula Collaborative updated study results
Install 2-16.3 MVAR capacitor bank at Aviation Substation	TBD	4	Updated load/model information
PROJECTS DEFERRED	New Date	Planning Zone	Reason for Deferral
Construct a 138-kV bus at Pleasant Valley Substation to permit second distribution transformer interconnection	2010	5	Was 2009; Resource scheduling requirements
Uprate Y-61 McCue-Lamar 69-kV line to achieve 300 deg F line ratings and install 2-12.45 Mvar 69-kV capacitor banks at Lamar Substation	2010	3	Was 2009 and provisional status; now proposed; delay due to resource scheduling requirements
Rebuild 2.37 miles of 69 kV from Sunset Point to Pearl Ave with 477 ACSR	2011	4	Was 2009; Resource scheduling requirements

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PROJECTS DEFERRED	New date	Planning Zone	Reason for Deferral
Install 3-75 MVAR capacitor banks at Bluemound Substation	2012	5	Was 2010; Resource scheduling requirements
Construct Monroe County-Council Creek 161-kV line and Timberwolf 69-kV switching station	2013	1	Was 2012; coordination with other entities
Install a 161/138-kV transformer at Council Creek Substation	2013	1	Was 2012; coordination with other entities
Uprate Council Creek-Petenwell 138-kV line	2013	1	Was 2012; coordination with other entities
Rebuild Y-32 Colley Road-Brick Church 69-kV line	2013	3	Was 2012; Resource scheduling requirements
Uprate X-12 Town Line Road-Bass Creek 138-kV line to 300 deg F	2013	3	Was 2012; Resource scheduling requirements
Uprate Arcadian-Waukesha 138-kV lines KK9942/KK9962	2013	5	Was 2010 proposed status, now provisional; updated study results
Replace two existing 345/138-kV transformers at Arcadian Substation with 1-500 MVA transformer	2013	5	Was 2010, Resource scheduling requirements
Install 1-8.16 MVAR capacitor bank at Boscobel 69-kV Substation and upgrade existing 5.4 MVAR bank with an 8.16 MVAR bank	2015	3	Was 2013; updated load/model information
Upgrade Oak Creek-Pennsylvania 138-kV line	2015	5	Was 2014; updated load/model information
Install a second 138/69-kV transformer at Spring Green with a 100 MVA summer normal rating	2016	3	Was 2013; updated load/model information
Uprate X-67 Portage-Trienda 138-kV line to 373 MVA	2016	3	Was 2014; updated load/model information
Construct new 138-kV line from North Lake Geneva to South Lake Geneva Substation	2016	3	Was 2015; updated study results
Construct new 138-kV bus and install a 138/69-kV 100 MVA transformer at South Lake Geneva Substation	2016	3	Was 2015; updated study results

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PROJECTS DEFERRED (continued)	New date	Planning Zone	Reason for Deferral
Install 2-16.33 MVAR 69-kV capacitor banks at Eden Substation	2016	3	Was 2014; updated load/model information
Install 4-49 MVAR 138-kV capacitor banks at Concord Substation	2016	3	Was 2011; updated load/model information
Replace two existing 138/69-kV transformers at Glenview Substation with 100 MVA transformers	2016	4	Was 2014; updated load/model information
Replace 138/69-kV transformer at Metomen Substation	2017	1	Was 2013; now a two-phased approach – breaker replaced in 2010, transformer in 2017
Uprate Y159 Brick Church-Walworth 69-kV line to 115 MVA	2017	3	Was 2015; updated load/model information
Construct a Lake Delton-Birchwood 138-kV line	2017	3	Was 2015; updated load/model information
Install 2-12.25 MVAR 69-kV capacitor banks at Mazomanie Substation	2017	3	Was 2014; updated load/model information
Construct a Horicon-East Beaver Dam 138-kV line	2019	3	Was 2014; updated load/model information
Install 2-32 Mvar capacitor banks at Mukwonago 138-kV Substation	2019	5	Was 2014; updated load/model information
Install 28.8 MVAR capacitor bank at Butternut 138-kV Substation	2020	4	Was 2016; updated load/model information
Uprate the Melissa-Tayco to 229 MVA (300F)	2020	4	Was 2016; updated load/model information
Install 138/69-kV transformer at Custer Substation	2020	4	Was 2016; updated load/model information
Construct Shoto to Custer 138-kV line	2020	4	Was 2016; updated load/model information
Rebuild/Convert Bayport-Suamico-Sobieski-Pioneer 69-kV line to 138 kV	2020	4	Was 2016; updated load/model information

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PROJECTS DEFERRED (continued)	New date	Planning Zone	Reason for Deferral
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	2021	1	Was 2018; updated load/model information
Construct a 345-kV bus, install a 345/138-kV 500 MVA transformer at North Randolph and loop the Columbia to South Fond Du Lac 345-kV line into the substation	2021	3	Was 2018; updated load/model information
Install 2-16.33 Mvar 69-kV capacitor banks at Rio	2022	3	Was 2019; updated load/model information
OTHER PROJECT CHANGES AND POSSIBLE CHANGES	Date	Planning Zone	Nature of Change or Update
Install 1-8.2 MVAR capacitor bank at Hiawatha 138-kV Substation	2009	2	Was 16.33 MVAR capacitor bank
Uprate the Chandler-Delta #1 69-kV line summer emergency rating from 120 deg F to 167 deg F	2009	2	Was 2010 in-service date
Uprate the Chandler-Delta #2 69-kV line summer emergency rating to from 120 deg F 167 deg F	2009	2	Was 2010 in-service date
Replace Metomen 69-kV breaker	2010	1	Metomen xfmr project broken into two pieces; Phase I 2010 and Phase II 2017
Uprate X-23 Colley Road-Marine 138-kV line terminals	2010	3	Was 2014 in-service date
Construct second Shorewood-Humboldt 138-kV underground cable	2010	5	Was 2012 in-service date
Install 1-4.08 MVAR capacitor bank at North Bluff 69-kV Substation	2011	2	Was yet to be determined in-service date
Replace two overhead Blount-Ruskin 69-kV lines with one underground 69-kV line	2011	3	Was yet to be determined in-service date, provisional status now proposed

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OTHER PROJECT CHANGES AND POSSIBLE CHANGES (continued)	Date	Planning Zone	Nature of Change or Update
Uprate overhead portions of Straits-McGulpin 138-kV circuits #1 & #3 to 230 F degree summer emergency ratings	2012	2	Was yet to be determined in-service date
Rebuild part of the Y-8 Dane-Dam Heights 69-kV line	2012	3	Was 2015 in-service date; now combined with earlier maintenance project
Uprate Y-40 Gran Grae-Boscobel 69-kV line to achieve a 99 MVA summer emergency rating	2012	3	Was 2014 in-service date
Uprate Fitchburg-Nine Springs 69-kV and Royster-Pflaum 69-kV lines and move AGA load to the Royster-Femrite 69-kV line	2013	3	Was loop Nine Springs-Pflaum into Femrite
Construct second Dunn Road-Egg Harbor 69-kV line	2016	4	Was proposed status, now provisional
Uprate Castle Rock-Mckenna 69-kV line	2017	1	Was 2018 in-service date
NEW PROJECTS	In-Service Date	Planning Zone	Reason for Project
Uprate Point Beach-Sheboygan Energy Center 345-kV circuit L111 to 167 degrees F	2010	4	Market congestion
Rebuild/convert Straits-Pine River 138-kV lines 6904/5	2012	2	Upper Peninsula Collaborative study results
Install 138/69-kV 150 MVA transformer at Pine River	2012	2	Upper Peninsula Collaborative study results
Install 138/69-kV 150 MVA transformer at Nine Mile	2012	2	Upper Peninsula Collaborative study results
Install 138/69-kV 150 MVA transformer at Lakehead Rapid River	2012	2	Upper Peninsula Collaborative study results
Construct tap from the Kinross load to Pine River/Nine Mile 69-kV line	2012	2	Upper Peninsula Collaborative study results
Construct/convert Pine River-Nine Mile 138/69-kV double-circuit line	2012	2	Upper Peninsula Collaborative study results
Install second Chandler 138/69-kV transformer	2013	2	Upper Peninsula Collaborative study results
Install 2-16.33 MVAR 69-kV capacitor banks at Nine Springs Substation	2013	3	Upper Peninsula Collaborative study results

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NEW PROJECTS (continued)	In-Service Date	Planning Zone	Reason for Project
Uprate Munising-Seney-Blaney Park 69-kV line to 167 degrees F	2014	2	Upper Peninsula Collaborative study results
Construct Gwinn-Forsyth second 69-kV line	2014	2	Upper Peninsula Collaborative study results