

Table PR-14
Zone 1 Transmission System Additions

System Additions	System Need Year	Projected In-Service Year	Planning Zone	Need Category	Planned, Proposed or Provisional
Upgrade McKenna 6.3 MVAR capacitor bank to 15.3 MVAR and upgrade Chaffee Creek 8.1 MVAR bank to 14.4 MVAR	2011	2011	1	reliability (69B2, 69B3)	Proposed
Construct 115-kV line from new Woodmin Substation to the Clear Lake Substation	2012	2012	1	T-D interconnection	Planned
Construct Monroe County-Council Creek 161-kV line and Timberwolf 69-kV switching station	2013	2014	1	economics, reliability (B2, C3)	Proposed
Install a 161/138-kV transformer at Council Creek Substation	2013	2014	1	economics, reliability (B2, C3)	Proposed
Uprate Council Creek-Petenwell 138-kV line	2013	2014	1	economics, reliability (B2)	Proposed
Reconfigure Petenwell 138-kV bus	2011	2015	1	operating flexibility	Provisional
Upgrade 4.1 MVAR capacitor bank to 8.2 MVAR and install a new 8.2 MVAR capacitor bank at Ripon 69-kV Substation	>2026	2015	1	reliability (69B2)	Provisional
Replace Petenwell 138/69-kV transformer	2018	2015	1	reliability (A, 69B2)	Provisional
Replace existing 56 MVA Harrison 138/69-kV transformer with a 100 MVA transformer	>2026	2016	1	reliability (A)	Provisional
Replace 138/69-kV transformer at Metomen Substation	2017	2017	1	reliability (A, 69B3)	Proposed
Uprate Castle Rock-Mckenna 69-kV line	2024	2017	1	reliability (69B2, 69B3)	Provisional
Construct Fairwater-Mackford Prairie 69-kV line	>2026	2017	1	economics, reliability (69B2)	Provisional
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	>2026	2017	1	economics, reliability (69B2)	Provisional
Install a second 138/69-kV transformer at Wautoma Substation	>2026	2018	1	reliability (A, 69B2)	Provisional
Convert Necedah distribution substation from 69 kV to 138 kV	>2026	2018	1	reliability (69B2, 69B3)	Provisional
Replace existing Caroline 115/69-kV transformer	>2026	2018	1	reliability (69B3)	Provisional
Uprate Winneconne-Sunset Point 69-kV line Y-103	>2026	2019	1	reliability (69B2)	Provisional
Uprate Ripon-Northwest Ripon 69-kV line Y-93	>2026	2019	1	reliability (69B2)	Provisional