

| | A | B | C | D | E | F | G | H | I | J |
|----|---|--------------------------|---------------------------|------|-----------------------------------|----------------|----------------------------------|---------------------------------------|------------|-------------------|
| 1 | Project Name | 2019 TYA Model Need Year | Estimated In-Service Year | ZONE | Need Category | Planning Event | Planned / Proposed / Provisional | MISO MTEP Appendix (BOLD = Certified) | MTEP PRJID | Cost |
| 2 | M-38 SS, New 138kV Inductor Bank | 2019 | 2019 | 2 | Reliability | P0 | Planned | A in MTEP18 | 14185 | \$ 4,100,000.00 |
| 3 | Nine Mile SS, Install MODs for Sectionalizing | | 2019 | 2 | Condition and Performance | | Planned | A in MTEP18 | 13788 | \$ 3,443,060.00 |
| 4 | Silver River SS, New 138kV Inductor Bank | 2019 | 2019 | 2 | Reliability | P0 | Planned | A in MTEP18 | 14185 | \$ 4,100,000.00 |
| 5 | Chandler - Masonville(UPPCO) 69kV (Lakehead), Re-insulate | | 2020 | 2 | Condition and Performance | | Planned | A in MTEP19 | 14908 | \$ 2,000,000.00 |
| 6 | Hiawatha - Pine River 69kV (ESE_6908), Replace select poles, cross arms. | | 2020 | 2 | Condition and Performance | | Planned | A in MTEP18 | 13773 | \$ 5,012,778.00 |
| 7 | North Lake - M-38 138kV (NLKG31), Rerate | | 2020 | 2 | Line Clearance | | Planned | A in MTEP18 | 15284 | \$ 2,500,000.00 |
| 8 | Mackinac - McGulpin 138kV (9901 and 9903), submarine cable replacement | | 2021 | 2 | Condition and Performance | | Planned | A in MTEP18 | 15145 | \$ 105,000,000.00 |
| 9 | Atlantic SS, 138/69kV Bus Reconfiguration and Transformer Addition | 2020 | 2022 | 2 | Operational Flexibility | P5 | Planned | A in MTEP19 | 7586 | \$ 6,600,000.00 |
| 10 | Mackinac HVDC, System Control and Monitoring (SCM) Asset Renewal | | 2022 | 2 | Condition and Performance | | Planned | A in MTEP20 | 18020 | \$ 4,000,000.00 |
| 11 | Presque Isle - Tilden 138kV, Loop and Uprate | 2020 | 2022 | 2 | Reliability | prior + P1.2 | Planned | A in MTEP19 | 15345 | \$ 13,100,000.00 |
| 12 | Straits SS, Replace 3 138kV Breakers | | 2022 | 2 | Condition and Performance | | Planned | A in MTEP18 | 13758 | \$ 2,000,000.00 |
| 13 | Straits, Crossing Fiber Optic Communications | | 2022 | 2 | Communication | | Planned | A in MTEP19 | 14910 | \$ 2,000,000.00 |
| 14 | J928/J849 Indian Lake , Common Use Upgrades | 2019 | 2019 | 2 | G-T Interconnection | | Planned | A in MTEP19 | 17064 | \$ 200,000.00 |
| 15 | Nordic SS, Install 138kV Breakers | | 2019 | 2 | Condition and Performance | | Proposed | A in MTEP17 | 12062 | \$ 5,500,000.00 |
| 16 | J928 - Garden Corners SS, GIC Network Upgrades | 2019 | 2020 | 2 | G-T Interconnection | | Planned | A in MTEP19 | 16494 | \$ 300,000.00 |
| 17 | Central UP, new DIC | 2019 | 2021 | 2 | T-D Interconnection | | Proposed | A in MTEP18 | 15133 | \$ 6,200,000.00 |
| 18 | Eastern UP, new DIC | 2021 | 2022 | 2 | T-D Interconnection | | Proposed | A in MTEP18 | 15130 | \$ 12,600,000.00 |
| 19 | J849, Chandler SS, Interconnection Facilities and Network Upgrades | 2022 | 2022 | 2 | G-T Interconnection | | Planned | A in MTEP19 | 16492 | \$ 3,036,785.00 |
| 20 | NLKG31 Tap - Greenstone 138kV, construct new transmission line | 2022 | 2022 | 2 | Condition and T-D Interconnection | | Proposed | A in MTEP19 | 15933 | \$ 5,200,000.00 |
| 21 | Keel Ridge SS, new DIC | 2025 | 2024 | 2 | T-D Interconnection | | Proposed | A in MTEP18 | 13792 | \$ 2,600,000.00 |
| 22 | Arnold SS, 80 MVAR Inductor Bank | 2022 | 2022 | 2 | Reliability | P0 | Provisional | B in MTEP18 | 14187 | < 10 M |
| 23 | Chandler - Delta (UPPCO) 69kV (Delta 1), Replace select poles, re-insulate | | 2023 | 2 | Condition and Performance | | Provisional | -- | -- | \$ 1,420,000.00 |
| 24 | Forsyth SS - Gwinn SS 69kV, new line | | 2023 | 2 | Operational Flexibility | | Provisional | B in MTEP20 | 18018 | \$ 4,000,000.00 |
| 25 | 9 Mile SW STA - Portage 69kV (6901/6902), Partial Rebuild | | 2024 | 2 | Condition and Performance | | Provisional | B in MTEP20 | 18049 | \$ 2,200,000.00 |
| 26 | Gwinn - KI Sawyer 69kV (6910), Partial Rebuild | | 2024 | 2 | Condition and Performance | | Provisional | -- | -- | \$ 1,510,000.00 |
| 27 | North Lake - Greenstone 69kV (NLKY11), Rebuild | | 2024 | 2 | Condition and Performance | | Provisional | -- | -- | \$ 14,000,000.00 |
| 28 | 9 Mile SW STA - Pine River 69kV (6921/23), Replace select poles , x-arms, re-insulate | | 2025 | 2 | Condition and Performance | | Provisional | B in MTEP19 | 16496 | \$ 5,870,000.00 |
| 29 | Blaney Park SW STA - Mich Limestone Quarry Tap 69kV (6914), Replace select poles , x-arms, re-insulate | | 2025 | 2 | Condition and Performance | | Provisional | -- | -- | \$ 1,410,000.00 |
| 30 | Empire SS, Control House Replacement and Breaker & Relay Asset Renewal | | 2025 | 2 | Condition and Performance | | Provisional | B in MTEP19 | 16489 | \$ 6,732,000.00 |
| 31 | Mass - Conover 69kV (6530), Replace select poles, reinsulate | | 2025 | 2 | Condition and Performance | | Provisional | B in MTEP19 | 16495 | \$ 8,560,000.00 |
| 32 | Tilden SS, Control House Replacement and Breaker & Relay Asset Renewal | | 2025 | 2 | Condition and Performance | | Provisional | B in MTEP19 | 16488 | \$ 5,484,000.00 |
| 33 | Winona - Atlantic 69kV (Winona69), rebuild | 2022 | 2025 | 2 | Reliability | P6 | Provisional | A in MTEP20 | 4727 | \$ 30,400,000.00 |
| 34 | | | | | | | | | | |
| 35 | Legend | | | | | | | | | |
| 36 | No Shading = No change to project since previous Assessment | | | | | | | | | |
| 37 | Orange Shading = new project, was not in previous Assessment project list | | | | | | | | | |
| 38 | Gray Shading = some change (e.g. In-service year or scope) since previous Assessment | | | | | | | | | |
| 39 | MISO MTEP Appendix - Indicates MTEP Cycle, Cycles MTEP18 and prior are Certified in MISOs' Regional Plan for A projects (BOLDED), MTEP19 and future cycles are not yet certified at the time of publication (10/2019). | | | | | | | | | |
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