Table AR-1 Asset Renewal Line Work<sup>1</sup>

| System Additions   | Projected<br>In-Service Year | Project<br>Status | Planning<br>Zone | MISO<br>MTEP<br>Appendix<br>Status | MTEP<br>PRJiD | Need Category  |
|--|------------------------------|-------------------|------------------|------------------------------------|---------------|--|
| Wild Rose - Harrison 69-kV line (Y19) Partial Rebuild      | 2020                         | Planned           | 1                | Targeted<br>A 18                   | 12147         | Improve condition and increase reliability performance of existing line  |
| Wautoma – Wild Rose 69-kV line (Y180) Partial rebuild      | 2020                         | Planned           | 1                | Targeted<br>A 18                   | 13770         | Improve condition and increase reliability performance of existing line  |
| Coyne - Saratoga 115-kV line (T-72) Rebuild                | 2020                         | Planned           | 1                | А                                  | 12178         | Improve condition and increase reliability performance of existing line  |
| Lincoln Pump Sta Chaffee Creek 69-kV line (Y18)<br>Rebuild | 2023                         | Planned           | 1                | Targeted<br>A 18                   | 10486         | Improve condition and increase reliability performance of existing line  |
| Wautoma – Chaffee Creek 69-kV line (Y49) Rebuild           | 2023                         | Planned           | 1                | Targeted<br>A 18                   | 7764          | Improve condition and increase reliability performance of existing line  |
| Lincoln Pump Sta McKenna 69-kV line (Y145)<br>Rebuild      | 2025                         | Proposed          | 1                | Targeted<br>A 18                   | 7765          | Improve condition and increase reliability performance of existing line  |
| McKenna - Castle Rock 69-kV line (Y47) Rebuild             | 2025                         | Proposed          | 1                | Targeted<br>A 18                   | 7763          | Improve condition and increase reliability performance of existing line  |
| Munising-Blaney Park 69-kV line (Inland) Partial rebuild   | 2019                         | Planned           | 2                | А                                  | 3096          | Improve condition and increase reliability performance of existing line  |
| Pine River-Hiawatha 69-kV line (ESE_6908) Partial rebuild  | 2020                         | Planned           | 2                | Targeted<br>A 18                   | 13773         | Improve condition and increase reliability performance of existing line  |
| North Lake – M-38 138-kV line (NLKG31) Partial Rebuild     | 2020                         | Planned           | 2                | Targeted<br>A 18                   | 15284         | Improve condition and increase reliability performance of existing lines |

Table AR-1
Asset Renewal Line Work<sup>1</sup> (Continued)

|   | ASSEL REHEWA                 | LINE WORK         | Continued        |                                    |               |  |
|---|------------------------------|-------------------|------------------|------------------------------------|---------------|--|
| System Additions  | Projected<br>In-Service Year | Project<br>Status | Planning<br>Zone | MISO<br>MTEP<br>Appendix<br>Status | MTEP<br>PRJiD | Need Category  |
| Portage - 9 Mile 69-kV lines (6901/6902) Re-insulate                              | 2023                         | Provisional       | 2                | Targeted<br>B 18                   | 14909         | Improve condition and increase reliability performance of existing lines |
| Gwinn- KI Sawyer 69-kV line (Sawyer) Re-insulate                                  | 2023                         | Provisional       | 2                | -                                  |               | Improve condition and increase reliability performance of existing line  |
| Chandler-Delta (UPPCO) 69-kV line (Delta 1) Partial rebuild                       | 2023                         | Provisional       | 2                |                                    |               | Improve condition and increase reliability performance of existing line  |
| Conover-Mass 69-kV line (6530) Partial rebuild                                    | 2025                         | Provisional       | 2                | Target B<br>19                     |               | Improve condition and increase reliability performance of existing line  |
| 9 Mile SW STA - Pine River 69-kV lines (6921/23)<br>Partial rebuild               | 2025                         | Provisional       | 2                | Target B<br>19                     |               | Improve condition and increase reliability performance of existing line  |
| Blaney Park SW STA – Mich. Limestone Quarry Tap 69-kV line (6914) Partial rebuild | 2025                         | Provisional       | 2                |                                    |               | Improve condition and increase reliability performance of existing line  |
| Boscobel - Lone Rock 69-kV line (Y124) Rebuild                                    | 2019                         | Planned           | 3                | А                                  | 7583          | Improve condition and increase reliability performance of existing line  |
| Portage – Staff 138-kV (X6) Rebuild   | 2020                         | Planned           | 3                | А                                  | 9968          | Improve condition and increase reliability performance of existing line  |
| Staff – North Randolph 138-kV (X98) Rebuild                                       | 2020                         | Planned           | 3                | А                                  | 9974          | Improve condition and increase reliability performance of existing line  |
| Sheepskin – Stoughton 69-kV line (Y12) Rebuild                                    | 2021                         | Planned           | 3                | А                                  | 7600          | Improve condition and increase reliability performance of existing line  |

Table AR-1
Asset Renewal Line Work<sup>1</sup> (Continued)

| System Additions   | Projected In-Service Year | Project<br>Status | Planning<br>Zone | MISO<br>MTEP<br>Appendix<br>Status | MTEP<br>PRJiD | Need Category   |
|--|---------------------------|-------------------|------------------|------------------------------------|---------------|---|
| Rebuild Dane - Waunakee 69-kV line (Y143)                            | 2022                      | Planned           | 3                | А                                  | 12177         | Improve condition and increase reliability performance of existing line |
| Academy – North Randolph 138-kV line (X5) Reinsulate                 | 2023                      | Planned           | 3                | Target A<br>19                     | 13822         | Improve condition and increase reliability performance of existing line |
| Hillman – Falcon 138-kV line (X14) Rebuild                           | 2025                      | Proposed          | 3                | Targeted<br>A 18                   | 4726          | Improve condition and increase reliability performance of existing line |
| Falcon – Darlington 138-kV line (X101) Rebuild                       | 2025                      | Proposed          | 3                | Targeted<br>A 18                   | 4726          | Improve condition and increase reliability performance of existing line |
| Academy – Columbus 69-kV line (Y21) Rebuild                          | 2023                      | Provisional       | 3                | В                                  | 10590         | Improve condition and increase reliability performance of existing line |
| South Beaver Dam - Horicon 69-kV line (Y134)<br>Rebuild              | 2026                      | Provisional       | 3                |                                    |               | Improve condition and increase reliability performance of existing line |
| Darlington – Rock Branch 69-kV line (Y109) Rebuild                   | 2026                      | Provisional       | 3                |                                    |               | Improve condition and increase reliability performance of existing line |
| Ohmstead - Cedar Ridge Wind Generation 138-kV line (X2) Rebuild      | 2019                      | Planned           | 4                | А                                  | 12150         | Improve condition and increase reliability performance of existing line |
| Cedar Ridge Wind Generation - Mullet River 138-kV line (X97) Rebuild | 2020                      | Planned           | 4                | А                                  | 12148         | Improve condition and increase reliability performance of existing line |
| Goodman - Caldron Falls 69-kV line (J-88) Rebuild                    | 2020                      | Planned           | 4                | А                                  | 9977          | Improve condition and increase reliability performance of existing line |

Table AR-1
Asset Renewal Line Work<sup>1</sup> (Continued)

| System Additions  | Projected<br>In-Service Year | Project<br>Status | Planning<br>Zone | MISO<br>MTEP<br>Appendix<br>Status | MTEP<br>PRJiD | Need Category   |
|---|------------------------------|-------------------|------------------|------------------------------------|---------------|---|
| Finger Road -Canal 69-kV line (J-10) Rebuild  | 2020                         | Planned           | 4                | А                                  | 8841          | Improve condition and increase reliability performance of existing line |
| Neevin - Butte Des Morts 138-kV line (43021) Rebuild  | 2021                         | Planned           | 4                | A                                  | 12185         | Improve condition and increase reliability performance of existing line |
| Sunset Point - Mears - Woodenshoe - Neevin<br>138-kV lines (A-79), (MCRG21) and (80952) Rebuild | 2021                         | Planned           | 4                | А                                  | 12185         | Improve condition and increase reliability performance of existing line |
| Danz - Finger Road 69-kV line (L-64) Rebuild  | 2022                         | Planned           | 4                | Targeted<br>A 18                   | 12141         | Improve condition and increase reliability performance of existing line |
| Finger Road - Highway V 69-kV line (U-47) Rebuild   | 2022                         | Planned           | 4                | Targeted<br>A 18                   | 12140         | Improve condition and increase reliability performance of existing line |
| Highway V - Oak Street 69-kV line (Z-26) Rebuild  | 2025                         | Planned           | 4                | Targeted<br>A 18                   | 12137         | Improve condition and increase reliability performance of existing line |
| Custer - New Holstein 69-kV line (P-68) Rebuild   | 2025                         | Proposed          | 4                | Targeted<br>A 18                   | 7584          | Improve condition and increase reliability performance of existing line |
| Wesmark - Rapids 69-kV line (R-44) Rebuild  | 2024                         | Proposed          | 4                | Targeted<br>A 18                   | 12135         | Improve condition and increase reliability performance of existing line |
| Finger Road SW STA – Wesmark 69-kV line (FIRY11) Rebuild  | 2023                         | Proposed          | 4                | Targeted<br>A 18                   | 12134         | Improve condition and increase reliability performance of existing line |
| Norwich – Barland 138-kV line (NWHG41) Re-insulate  | 2020                         | Planned           | 5                | Targeted<br>A 18                   | 13821         | Improve condition and increase reliability performance of existing line |

Table AR-1
Asset Renewal Line Work<sup>1</sup> (Continued)

| Asset Renewal Line Work'   |                              |                   | Continuea)       | 7                                  |               |  |  |
|--|------------------------------|-------------------|------------------|------------------------------------|---------------|--|--|
| System Additions   | Projected<br>In-Service Year | Project<br>Status | Planning<br>Zone | MISO<br>MTEP<br>Appendix<br>Status | MTEP<br>PRJiD | Need Category  |  |
| St. Martins - Edgewood 138-kV line (3013) Rebuild                    | 2019                         | Planned           | 5                | А                                  | 3510          | Improve condition and increase reliability performance of existing line          |  |
| Edgewood - Mukwonago 138-kV line (671K61)<br>Rebuild and add breaker | 2019                         | Planned           | 5                | А                                  | 3510          | Improve condition and<br>increase reliability<br>performance of existing<br>line |  |
| Paris – Burlington 138-kV line (8962) Rebuild                        | 2021                         | Planned           | 5                | Targeted<br>A 18                   | 13732         | Improve condition and increase reliability performance of existing line          |  |
| St. Lawrence – Barton 138-kV line (8032) Partial rebuild             | 2023                         | Planned           | 5                | Targeted<br>A 18                   | 13735         | Improve condition and increase reliability performance of existing line          |  |
| Barton – Auburn 138-kV line (9752) Partial rebuild                   | 2024                         | Planned           | 5                | Targeted<br>A 18                   | 13743         | Improve condition and increase reliability performance of existing line          |  |
| Summit -Cooney 138-kV line (6431) Rebuild                            | 2023                         | Proposed          | 5                | Target A<br>19                     | 15457         | Improve condition and increase reliability performance of existing line          |  |
| University-Whitewater 138-kV line (UNIG51) Rebuild                   | 2027                         | Provisional       | 5                |                                    | -             | Improve condition and increase reliability performance of existing line          |  |
| University - Mukwonago 138-kV line (UNIG52)<br>Rebuild               | 2027                         | Provisional       | 5                |                                    |               | Improve condition and increase reliability performance of existing line          |  |
| Line Clearance Mitigation Projects Current Cycle                     | 2018 - 2020                  | Planned           |                  | Targeted<br>A 18                   | 13824         | Improve condition and increase reliability performance of existing line          |  |
| Line Clearance Mitigation Projects 2019                              | 2019 - 2021                  | Planned           |                  | Targeted<br>A 18                   | 13825         | Improve condition and increase reliability performance of existing line          |  |

Table AR-1
Asset Renewal Line Work<sup>1</sup> (Continued)

| System Additions                        | Projected<br>In-Service Year | Project<br>Status | Planning<br>Zone | MISO<br>MTEP<br>Appendix<br>Status | MTEP<br>PRJiD | Need Category   |
|---|------------------------------|-------------------|------------------|------------------------------------|---------------|---|
| Line Clearance Mitigation Projects 2020 | 2020 - 2022                  | Proposed          |                  | Target A<br>19                     | 14912         | Improve condition and increase reliability performance of existing line |
| Line Clearance Mitigation Projects 2021 | 2021 - 2023                  | Provisional       |                  | Target B<br>18                     | 14913         | Improve condition and increase reliability performance of existing line |
| Line Clearance Mitigation Projects 2022 | 2022 - 2024                  | Provisional       |                  | Target B<br>18                     | 14966         | Improve condition and increase reliability performance of existing line |