

ATC Preliminary MTEP16 Project List

| Target Appendix | Geographic Location by TO Member System | Prjld | Owner_PrjID | Project Name | Project Description | Expected ISD | Min of Plan Status | Max kV | Min kV | Estimated Cost | System Need | Need Date |
|--|---|-------|-------------|---|--|--------------|--------------------|--------|--------|------------------|------------------------------|------------|
| MTEP16 Appendix A Line Rebuild Projects | | | | | | | | | | | | |
| A in MTEP16 | ATC | 7583 | PR04985 | Rebuild Lone Rock - Boscobel 69 kV | Rebuild Y-124 from Lone Rock to Boscobel with T2-4/0 ACSR. Includes partial rebuild of Y-78 Lone Rock - Richland Center | 6/30/2019 | Conceptual | 69 | 0 | \$ 34,000,000.00 | Reliability - Asset Renewal. | 12/31/2018 |
| A in MTEP16 | ATC | 8841 | PR04988 | Rebuild Finger Rd - Canal 69 KV | This project is a Asset Management driven project to rebuild the main section of J-10 from Finger Road to Beardsley to Canal. The tapped lines off of J-10 and East Krok to Beardsley are not included in this scope. No substation work is included in scope. | 12/1/2019 | Proposed | 69 | 0 | \$ 74,000,000.00 | Reliability - Asset Renewal. | 12/31/2019 |
| A in MTEP16 | ATC | 9423 | PR04968 | Rebuild 115KV Line B-106 Plover - Whiting Avenue Substation | Rebuild line B-106 (Plover-Okroy-Whiting 115) using existing conductor 795 ACSR. | 12/1/2019 | Planned | 115 | 0 | \$ 6,200,000.00 | Reliability - Asset Renewal. | 12/31/2019 |
| A in MTEP16 | ATC | 9934 | PR07285 | Upgrade Oak Creek - Hayes 138-kV line | Oak Creek - Hayes 138-kV line 811 upgrade and reconfiguration | 6/30/2018 | Proposed | 138 | 0 | \$ 21,000,000.00 | Reliability. | |
| A in MTEP16 | ATC | 9977 | | Rebuild 69KV Line J-88 Goodman - Caldron Falls Substation | Rebuild 69KV Line J-88 Goodman - Caldron Falls Substation. | 12/31/2019 | Planned | 69 | 0 | \$ 35,000,000.00 | Reliability - Asset Renewal. | |
| A in MTEP16 | ATC | 9986 | | Rebuild 138KV Line 762 Port Washington - Saukville Substation | Rebuild 138KV Line 762 Port Washington - Saukville Substation. | 12/31/2021 | Planned | 138 | 0 | \$ 15,000,000.00 | Reliability. | |
| A in MTEP16 | ATC | 10403 | | Uprate Kegonsa - Sun Prairie 69 kV line | Uprate Y-81 from Kegonsa to Sun Prairie | 6/30/2017 | | | | \$ 5,000,000.00 | Reliability. | |
| A in MTEP16 | ATC | 10404 | | Uprate 9 Mile - Detour 69 kV | Uprate 6950 from 9 Mile to Detour | 2/28/2017 | | | | \$ 7,000,000.00 | Reliability. | |
| A in MTEP16 | ATC | 10589 | PR07388 | Rerate Whitcomb - Tigerton Tap 69kV | Rerate Whitcomb - Tigerton Tap 69kV | 6/9/2017 | Planned | 69 | 0 | | Reliability. | |
| A in MTEP16 | ATC | 3190 | PR05190 | Rebuild Sunset Point-Winneconne 69 kV | Rebuild line Y-103 from Sunset Point to Winneconne to SN/SE = 200/300 deg F | 4/29/2016 | Conceptual | 69 | 0 | \$3,868,404.00 | Reliability. | 12/31/2016 |
| A in MTEP16 | ATC | 10683 | PR07394 | Uprate Lone Rock - Richland Center 69kV Line | Uprate Lone Rock - Richland Center to max operating temperature. | 6/9/2017 | Planned | 69 | 0 | | Reliability. | |
| MTEP16 Appendix A Substation Projects | | | | | | | | | | | | |
| A in MTEP16 | ATC | 8640 | | Upgrade City Limits Bus 138 kV | Replace bus conductors at City Limits | 12/31/2017 | Proposed | 138 | 0 | \$ 500,000.00 | Reliability. | 12/31/2017 |
| A in MTEP16 | ATC | 9925 | | Tap Stone Lake - Gardner Park 345-kV line | Loop Stone Lake - Gardner Park 345-kV line into new Pershing 345-kV Substation. | 6/1/2018 | Proposed | 345 | 0 | \$ 15,000,000.00 | T-T Interconnection. | |
| A in MTEP16 | ATC | 10484 | PR07373 | Construct Eaton 138 kV T- D | Construct a new ATC 138KV loop through at Eaton Substation. | 6/1/2019 | Proposed | 138 | 24.9 | | Reliability. T-D. | |
| A in MTEP16 | ATC | 10485 | PR007372 | Construct Bay Ridge 138 kV T- D | Construct a new ATC 138KV loop through at Bay Ridge Substation. | 6/1/2022 | Proposed | 138 | 24.9 | | Reliability. T-D. | |
| A in MTEP16 | ATC | 10543 | PR07390 | Construct T-D Escanaba North Substation | Construct T-D Escanaba North Substation (GOAB) | 1/1/2017 | Planned | 69 | 0 | | Reliability. T-D. | |
| A in MTEP16 | ATC | 10563 | PR07397 | Construct T - D Oakview Substation | Construct T -D Oakview Substation | 6/1/2018 | Planned | 138 | 0 | | Reliability. T-D. | |
| A in MTEP16 | ATC | 10603 | PR07299 | Construct T - D Springwater Substation | Construct T - D Springwater Substation. | 12/31/2019 | Proposed | 69 | 0 | | Reliability. T-D. | |
| A in MTEP16 | ATC | 10686 | PR07392 | Construct T - D Roosevelt Road Substation | ATC bus expansion and T-D distribution transformer addition. | 6/1/2018 | Proposed | 138 | 0 | | Reliability. T-D. | 6/1/2018 |
| A in MTEP16 | ATC | 10684 | PR07396 | Construct T - D Ellinwood Substation | T-D distribution transformer addition at Ellinwood Substation. | | | 0 | 0 | | Reliability. T-D. | |
| A in MTEP16 | ATC | 10685 | PR07393 | Construct T - D Tomahawk Substation | Tomahawk Substation bus-tie breaker addition and T-D distribution transformer addition. | 6/1/2017 | Proposed | 115 | 0 | | Reliability. T-D. | |

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| MTEP16 Appendix A Tranformer Projects | | | | | | | | | | | | |
| A in MTEP16 | ATC | 8442 | PR05503 | Replace Arnott 138/69 kV Transformer | Asset maintenance, Replace the Arnott 138-69 kV Tr with 60 MVA unit | 12/31/2016 | Proposed | 138 | 69 | \$ 3,600,000.00 | Reliability - Asset Renewal. | 12/31/2016 |
| A in MTEP16 | ATC | 9938 | PR04754 | Replace Sunset Point 138-69 kV Transformer | Replace 138/69KV power transformer with 100MVA continuous top rated transformer. | 12/1/2016 | Planned | 138 | 0 | \$ 6,000,000.00 | Reliability - Asset Renewal. | |
| A in MTEP16 | ATC | 9944 | | Replace Erdman T31 Transformer | Replace Erdman T31 Transformer. | 12/31/2017 | Planned | 138 | 0 | \$ 6,000,000.00 | Reliability - Asset Renewal. | |
| A in MTEP16 | ATC | 9954 | PR05520 | Replace Lost Dauphin T1 Transformer | Replace Lost Dauphin T1 Transformer. | 12/31/2017 | Planned | 138 | 0 | \$ 6,700,000.00 | Reliability - Asset Renewal. | |
| A in MTEP16 | ATC | 9958 | | Replace East Krok Transformer | Replace East Krok Transformer. | 12/31/2017 | Planned | 138 | 0 | | Reliability - Asset Renewal. | |
| A in MTEP16 | ATC | 9961 | | Replace Nelson Dewey T31/T32 Transformers | Replace Nelson Dewey T31/T32 Transformers. | 12/31/2018 | Planned | 138 | 0 | \$ 6,000,000.00 | Reliability - Asset Renewal. | |
| MTEP16 Appendix A Circuit Breaker Projects | | | | | | | | | | | | |
| A in MTEP16 | ATC | 7983 | PR05247 | Install 138/69 kV Canal Breakers | Install Canal 138-69 kV transformer high/low side breaker additions | 6/1/2017 | Proposed | 138 | 69 | \$ 5,100,000.00 | Reliability. | 12/31/2017 |
| A in MTEP16 | ATC | 9896 | | Lyndon Substation | Install 2 line breakers to sectionalize. | 12/31/2015 | Planned | 138 | 0 | \$ 3,100,000.00 | Reliability . | |
| A in MTEP16 | ATC | 9911 | PR05981 | Maes Substation 138 kV | Maes substation: Install 2 line breakers to sectionalize. | 10/1/2015 | Planned | 138 | 0 | \$ 1,800,000.00 | Reliability. | |
| A in MTEP16 | ATC | 9917 | | Bloomington Substation 69kV | Install SCADA controlled breakers to | 12/31/2016 | Planned | 69 | 0 | \$ 1,600,000.00 | Reliability. | |
| A in MTEP16 | ATC | 9918 | PR06143 | Red Maple Substation 138kV | Install a bus tie breaker. | 6/1/2016 | Planned | 138 | 0 | \$ 1,200,000.00 | Reliability. | |
| A in MTEP16 | ATC | 9921 | PR06142 | Birchwood Substation 138kV | Install a bus tie breaker. | 12/31/2017 | Proposed | 138 | 0 | \$ 700,000.00 | Reliability. | |
| A in MTEP16 | ATC | 9923 | | Mukwanago Substation 138kV | Install line breaker on line 67K61. | 12/1/2017 | Proposed | 138 | 0 | \$ 600,000.00 | Reliability. | |
| MTEP16 Appendix A Relay Projects | | | | | | | | | | | | |
| A in MTEP16 | ATC | 7985 | PR04578 | Install 138 kV Canal Redundant Bus Differentials | This project consists of installing redundant bus differential protection on the two Canal 138-kV buses. The project will install two new dual SEL-487B bus differential relay panels. | 6/1/2017 | Proposed | 138 | 0 | \$ 230,000.00 | Reliability. | 12/31/2017 |
| MTEP16 Appendix B | | | | | | | | | | | | |
| B in MTEP16 | ATC | 9928 | PR07179 | Re-rate Council Creek - Tomah Industrial Park (Y-121) 69kV Line | Re-rate 1.2 miles of 69 kV line between Council Creek and Tomah Industrial Park. | 11/1/2019 | Planned | 69 | 0 | | Reliability. | |
| B in MTEP16 | ATC | 9930 | | Uprate Lost Dauphin - Red Maple 138kV | Lost Dauphin - Red Maple 138-kV line uprate. | 12/1/2020 | Proposed | 138 | 0 | | Reliability. | |
| B in MTEP16 | ATC | 9935 | PR05844 | Install Wesmark Substation 2-8 Mvar 69-kV capacitor banks | Wesmark Substation: Install 2-8 Mvar 69-kV capacitor banks. | 6/1/2020 | Planned | 69 | 0 | | Reliability. | |
| B in MTEP16 | ATC | 9968 | | Rebuild 138KV Line X-6 Portage - Staff Substation | Rebuild 138KV Line X-6 Portage - Staff Substation. | 12/31/2019 | Planned | 138 | 0 | | Reliability. - Asset Renewal. | |
| B in MTEP16 | ATC | 9974 | | Rebuild 138KV Line X-98 Staff - North Randolph Substation | Rebuild 138KV Line X-98 Staff - North Randolph Substation. | 12/31/2019 | Planned | 138 | 0 | | Reliability. - Asset Renewal. | |
| B in MTEP16 | ATC | 9991 | | Rebuild Racine 345kV Bus | Rebuild Racine 345kV Bus. | 12/31/2018 | Planned | 345 | 0 | | Reliability. - Asset Renewal. | |
| B in MTEP16 | ATC | 8443 | | Replace Rocky Run 345/115 kV T1 Transformer | Replace the thee Rocky Run 345-115 kV transformers with two 500 MVA units. | 12/31/2017 | Conceptual | 345 | 115 | \$ 22,000,000.00 | Reliability. - Asset Renewal. | 12/31/2017 |
| B in MTEP16 | ATC | 10486 | PR06461 | Rebuild Chaffee Creek - Lincoln Pump Station 69 kV | Rebuild line Y-18 Chaffee Creek - Lincoln Pump Station. | 12/31/2021 | Proposed | 69 | 0 | | Reliability. - Asset Renewal. | |
| B in MTEP16 | ATC | 10590 | PR06462 | Rebuild Academy - Columbus 69kV | Rebuild Academy - Columbus 69kV | 12/31/2023 | Conceptual | 69 | 0 | | Reliability. - Asset Renewal. | |
| B in MTEP16 | ATC | 10643 | PR07400 | Construct T - D St. Martins Substation | St Martins Bus Expansion, Bus-tie Breaker Addition, Line Relocation, and T-D Transformer Addition. | | | 0 | 0 | | Reliability. T-D. | 1/1/2018 |