

**Table RS-1  
Identified Needs and Transmission Lines Requiring New Right-of-Way**

| Identified need  | Potential solutions  | Approx. line mileage |         | System need year | Projected In-service year | Planning zone | Environmental screening provided? | Comments and/or Corresponding Exhibit Number                            |
|--|--|----------------------|---------|------------------|---------------------------|---------------|-----------------------------------|---|
|  |  | Total                | New ROW |                  |                           |               |                                   |   |
| relieve overloads or low voltages under contingency                              | Construct a new 138-kV line from North Madison to Huiskamp   | 5                    | 5       | 2008             | 2009                      | 3             | No                                | Environmental information included with filing at PSCW - CPCN approved. |
| relieve overloads or low voltages under contingency                              | Construct a Jefferson-Lake Mills-Stony Brook 138-kV line   | 12                   | 12      | 2006             | 2009                      | 3             | No                                | Environmental information included with filing at PSCW - CPCN approved. |
| relieve overloads or low voltages under contingency, reduce service limitations  | String a new 138-kV line from Clintonville-Werner West primarily on Morgan-Werner West 345-kV line structures                | 16                   | 2       | 2004             | 2009                      | 4             | No                                | Environmental information included with filing at PSCW - CPCN approved. |
| relieve overloads or low voltages under contingency, reduce service limitations  | Construct Morgan-Werner West 345-kV line   | 47                   | 47      | 2004             | 2009                      | 4             | No                                | Environmental information included with filing at PSCW - CPCN approved. |
| T-D interconnection request  | Construct 69-kV line from new Warrens Substation to the Council Creek-Tunnel City 69-kV line                                 | 4.5                  | 4.5     | 2010             | 2010                      | 1             | Yes                               | Exhibit RS-1  |
| T-D interconnection request  | Construct Brandon-Fairwater 69-kV line   | 4                    | 4       | 2010             | 2010                      | 1             | Yes                               | Exhibit RS-2  |
| relieve overloads or low voltages under contingency                              | Construct new Oak Ridge-Verona 138-kV line and install a 138/69-kV transformer at Verona with a 100 MVA summer normal rating | 9                    | 3       | 2009             | 2010                      | 3             | No                                | Environmental information included with filing at PSCW - CPCN approved. |
| T-D interconnection request  | Construct 115-kV line from new Arnett Road Substation to the Clear Lake Substation   | 7                    | 7       | 2012             | 2012                      | 1             | Yes                               | Exhibit RS-3  |
| relieve overloads or low voltages under contingency                              | Construct 345-kV line from Rockdale to West Middleton  | 35                   | 35      | 2013             | 2013                      | 3             | No                                | Environmental information included with filing at PSCW.                 |
| T-D interconnection request  | Construct a 69-kV line from SW Ripon to the Ripon-Metomen 69-kV line   | 1.5                  | 1.5     | 2014             | 2014                      | 1             | Yes                               | Exhibit RS-4  |
| relieve overloads or low voltages under contingency                              | Construct a Horicon-East Beaver Dam 138-kV line  | 9                    | 9       | 2014             | 2014                      | 3             | Yes                               | Exhibit RS-5  |
| relieve overloads or low voltages under contingency, T-D interconnection request | Construct new 138-kV line from North Lake Geneva to South Lake Geneva Substation   | 3                    | 3       | 2014             | 2014                      | 3             | Yes                               | Exhibit RS-6  |
| relieve overloads or low voltages under contingency                              | Construct a Lake Delton-Birchwood 138-kV line  | 5                    | 5       | 2015             | 2015                      | 3             | Yes                               | Exhibit RS-7  |
| relieve overloads or low voltages under contingency                              | Construct Shoto to Custer 138-kV line  | 9.94                 | 9.94    | 2016             | 2016                      | 4             | Yes                               | Exhibit RS-8  |
| relieve overloads or low voltages under contingency                              | Construct second Dunn Road-Egg Harbor 69-kV line   | 12.66                | 12.66   | 2016             | 2016                      | 4             | Yes                               | Exhibit RS-9  |
| request,relieve overloads or low voltages  | Construct Spring Valley-Twin Lakes-South Lake Geneva 138-kV line   | 26.5                 | 15      | 2018             | 2018                      | 3 & 5         | Yes                               | Exhibit RS-10   |
| relieve overloads or low voltages under contingency                              | Construct Fairwater-Mackford Prairie 69-kV line  | 5                    | 5       | 2018             | 2018                      | 1             | Yes                               | Exhibit RS-11   |
| relieve overloads or low voltages under contingency                              | Construct Evansville-Brooklyn 69-kV line   | 8                    | 8       | TBD              | TBD                       | 3             | Yes                               | Exhibit RS-12   |
| relieve overloads or low voltages under contingency                              | Construct Verona-North Monroe 138-kV line  | 20                   | 20      | TBD              | TBD                       | 3             | Yes                               | Exhibit RS-13   |