

Table PR-15
Zone 2 Transmission System Additions

| System Additions | System Need Year | Projected In-Service Year | Planning Zone | Need Category | Planned, Proposed or Provisional |
|---|------------------|---------------------------|---------------|---|----------------------------------|
| Install 69-kV bus tie breaker at Delta Substation | 2011 | 2011 | 2 | reliability (C1), operating flexibility | Proposed |
| Uprate overhead portions of Straits-McGulpin 138-kV circuits #1 & #3 to 230 F degree summer emergency ratings | 2012 | 2012 | 2 | reliability (B2) | Proposed |
| Install second 138/69-kV transformer and a 138-kV ring bus at Chandler Substation | 2012 | 2012 | 2 | reliability (69B3) | Proposed |
| Replace five 69-kV breakers at Delta Substation | 2012 | 2012 | 2 | stability, operating flexibility | Proposed |
| Relocate Engadine 69-kV load | 2011 | 2012 | 2 | reliability (69B2) | Proposed |
| Rebuild M38-Atlantic 69-kV line | 2011 | 2013 | 2 | reliability (69B2) | Planned |
| Rebuild Straits-Pine River lines 6904/5 for 138 kV and operate at 69 kV | 2014 | 2014 | 2 | reliability (B2) | Proposed |
| Install power flow control at Straits 138-kV Substation | 2010 | 2014 | 2 | reliability (B1) | Proposed |
| Energize Hiawatha-Indian Lake at 138 kV | 2014 | 2014 | 2 | reliability (B2) | Proposed |
| Uprate Munising-Seney-Blaney Park 69-kV line to 167 degrees F | 2014 | 2014 | 2 | reliability (69B2) | Provisional |
| Construct 18th Road-Chandler double circuit 138-kV lines and operate at 138/69 | 2014 | 2014 | 2 | reliability (69B3), economics | Proposed |
| Construct 18th Road 138/69-kV Substation and install two 138/69-kV transformers | 2014 | 2014 | 2 | reliability (69B3) | Proposed |
| Install 1-8.16 MVAR 69-kV capacitor banks at 18th Road | 2014 | 2014 | 2 | reliability (69B3) | Proposed |
| Construct a new Arnold 345-kV Substation and install a 345/138-kV transformer | 2015 | 2015 | 2 | reliability (B1) | Proposed |
| Uprate Pine River-Nine Mile 69-kV line 6923 to 167 degrees F and asset renewal for 6921/3 | 2016 | 2016 | 2 | reliability (69B2), condition | Proposed |