Automatic Sectionalizing Schemes

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Planning Committee
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Automatic Sectionalizing Schemes

• Automatically isolate the faulted element and then restore remaining equipment to service.

• During normal operation of the automatic sectionalizing scheme, there will be no violations of emergency thermal ratings for the individual elements of the multiple element configuration and that there will be no violations of load dump thermal ratings for the loss of the multiple element configuration.

• Recognize the scheme – 90 Day after the Final Committee review.
The transmission owner identifies a candidate automatic sectionalizing scheme and provides PJM with specific information to permit analysis of the scheme. Technical information provided for the candidate scheme includes:

- A description of the transmission elements currently monitored as a multiple element contingency
- A description of those elements that will be isolated and either remain out of service or restored for successful operation of the automatic sectionalizing scheme
- PJM performs analysis to ensure that there are no voltage collapse or stability concerns with the operation of the transmission system utilizing the candidate scheme and the associated load dump ratings.
New Schemes for M-3

- Dominion has identified new schemes
  - Total of 51
  - Effective 7/27/17
- Schemes are added to M-3 Attachment E
New Schemes in Dominion Zone

- **Brambleton TX#1 Sectionalized** – Restores the 500 kV Bus Breakers following a fault on the transformer. *Effective July 27, 2017.
- **Clubhouse TX#1 Sectionalized** – Restores the Line 238 (Clubhouse - Carson) following a fault on the transformer. *Effective July 27, 2017.


New Schemes in Dominion Zone


- **Grottoes-Dooms 272 Sectionalized** – Restores the Grottoes 230 kV bus and transformer #4 following a fault on and isolation of the 272 line.


New Schemes in Dominion Zone


• **Ladysmith TX#1 Sectionalized** - Restores the 500 kV Bus Breakers following a fault on the transformer. *Effective July 27, 2017.

• **Landstown TX#1 Sectionalized** – Restores the 230 kV Bus Breakers following a fault on the transformer. *Effective July 27, 2017.


• **Midlothian TX#6 Sectionalized** – Restores the 500 kV Bus Breakers following a fault on the transformer. *Effective July 27, 2017.

• **Midlothian-Bremo 2027 Sectionalized** - Restores the Midlothian 230 kV Breakers and TX#1 following a fault and isolation of the 2027 line. *Effective July 27, 2017.
New Schemes in Dominion Zone


- **North Anna TX#1 Sectionalized** – Restores 500 kV Bus #1 Breakers Wt576 and XT573 following a fault on the transformer. *Effective July 27, 2017.


New Schemes in Dominion Zone

- **Spottsylvania TX#1 Sectionalized** – Restores the 500 kV Bus Breakers following a fault on the transformer. *Effective July 27, 2017.
- **Yadkin TX#1 Sectionalized** – Restores the 500 kV Bus Breakers following a fault on the transformer. *Effective July 27, 2017.