

Attachment E: Automatic Sectionalizing Schemes

Below is a list of schemes recognized by PJM for used in operations. Please refer to Manual-03B (CEII) Section 1.1.6 Recognition of Automatic Sectionalizing Schemes for the process to update this list. Transmission Owners can request changes by contacting PJM via M03_Change@pjm.com.

American Electric Power (AEP)

1. **Belmont 765/500 kV T-5 Sectionalized** – Restores Kammer-Belmont 765 kV and Mountaineer-Belmont 765 kV following a fault on the Belmont 765/500 kV T-5 transformer.
2. **Desoto 345/138 kV T-1 Sectionalized** – Restores Desoto #2 345 kV bus following a fault on the Desoto 345/138 kV T-1 transformer.
3. **East Danville 230/138 kV T4 Sectionalized** – Restores 138 kV 'P' 'M' and 'N' circuit breakers at East Danville following a fault on the East Danville 230/138 kV T4 transformer.
4. **East Danville 230/138 kV T5 Sectionalized** – Restores 138 kV circuit breakers 'P', 'L', , and 'J' and 69 kV circuit breakers 'H', 'F', and G and 12 kV circuit breaker 'A' at East Danville following a fault on the East Danville 230/138 kV T5 transformer.
5. **Haviland TX #4 Sectionalized** – Restores the Haviland 138 kV bus following a fault on the Haviland TX #4.
6. **Huntington-Sorenson 138 kV Sectionalized** – Restores the Huntington-Rock Creek 138 kV line and the Huntington-Huntington PSI 138 kV line following a fault on the Huntington-Sorenson 138 kV line.
7. **Maliszewski 765/138 kV T-1 Sectionalized** – Restores Maliszewski-Vassell 765 kV line and Marysville-Maliszewski 765 kV line following a fault on the Maliszewski 765/138 kV T-1 Transformer.
8. **Rockport 765/138/34 kV T-3 Sectionalized** – Restores Rockport 765 kV Ring Bus following a fault on the Rockport 765/138/34 kV T-3 transformer.
9. **South Berwick 345/69 kV T-1 Sectionalized** – Restores Fostoria-S. Berwick 345 kV line and South Berwick-Galion 345 kV line following a fault on the South Berwick 345/69 kV T-1 transformer.
10. **Tri State 345/138 kV T-1 Sectionalized** – Restores 345 kV 'H' and 'G1' circuit breakers at Tri State following a fault on the Tri State 345/138 kV T-1 transformer.
11. **Tri State 345/138 kV T-2 Sectionalized** – Restores 345 kV 'G2' and 'G' circuit breakers at Tri State following a fault on the Tri State 345/138 kV T-2 transformer.
12. **Tri State 345/138 kV T-3 Sectionalized** – Restores 345 kV 'G2' and 'H2' circuit breakers at Tri State following a fault on the Tri State 345/138 kV T-3 transformer.
13. **West Millersport 345/138 kV T-1 Sectionalized** – Restores W. Millersport No. 1 345 kV Bus following a fault on W. Millersport 345/138 kV T-1 transformer, after isolating

via the West Millersport 'X1' 345 kV air break.

14. **West Millersport 345/138 kV T-2 Sectionalized** – Restores W. Millersport No. 2 345 kV Bus following a fault on W. Millersport 345/138 kV T-2 transformer, after isolating via the West Millersport 'X2' 345 kV air break.

Atlantic City Electric Company (ACE)

1. **Atco #1 69 kV Transformer Sectionalized** – Restores Atco 69 kV Bus following a fault on the Atco #1 69 kV transformer.
2. **Atco #4 69 kV Transformer Sectionalized** – Restores Atco 69 kV Bus following a fault on the Atco #4 69 kV transformer.
3. **Carlls Corner #4 69 kV Transformer Sectionalized** – Restores Sherman Avenue-Carlls Corner 69 kV line following a fault on the Carlls Corner #4 69 kV transformer.
4. **Corson #4 69 kV Transformer Sectionalized** – Restores Dennis-Corson 69 kV line, Sea Isle-Corson 69 kV line and Corson #1 138/69 kV transformer following a fault on the Corson #4 69 kV transformer.
5. **Dacosta #1 69 kV Transformer Sectionalized** – Restores Dacosta 69 kV Bus following a fault on the Dacosta #1 69 kV transformer.
6. **Fairton #1 69 kV Transformer Sectionalized** – Restores Laurel-Fairton 69 kV line following a fault on the Fairton #1 69 kV transformer.
7. **Fairton #2 69 kV Transformer Sectionalized** – Restores Newport-Fairton 69 kV line following a fault on the Fairton #2 69 kV transformer.
8. **Glassboro #2 69 kV Transformer Sectionalized** – Restores Glassboro 69 kV Bus following a fault on the Glassboro #2 69 kV transformer.
9. **Glassboro #3 69 kV Transformer Sectionalized** – Restores Glassboro 69 kV Bus following a fault on the Glassboro #3 69 kV transformer.
10. **Glassboro #5 69 kV Transformer Sectionalized** – Restores Glassboro 69 kV Bus following a fault on the Glassboro #5 69 kV transformer.
11. **Higbee #1 69 kV Transformer Sectionalized** – Restores Lewis-Higbee 69 kV line, Ontario-Higbee 69 kV line and Higbee #2 69/23 kV transformer following a fault on the Higbee #1 69 kV transformer.
12. **Higbee #2 69 kV Transformer Sectionalized** – Restores Lewis-Higbee 69 kV line and Higbee #1 69/23 kV transformer following a fault on the Higbee #2 69 kV transformer.
13. **Monroe - Glassboro – Rowan 69 kV Sectionalized**– Restores Monroe-Glassboro or Glassboro-Rowan following a fault on Glassboro-Rowan or Monroe-Glassboro respectively.
14. **Monsanto - Nortonville – Oldman 69 kV Sectionalized**– Restores Monsanto-Nortonville or Nortonville-Oldman following a fault on Nortonville-Oldman or Monsanto-Nortonville respectively.
15. **Ontario #1 69 kV Transformer Sectionalized** – Restores Huron-Ontario 69 kV

line, Searstown-Ontario 69 kV line and following a fault on the Ontario #1 69 kV transformer.

16. **Ontario #2 69 kV Transformer Sectionalized** – Restores Higbee-Ontario 69 kV line and Lewis-Ontario 69 kV line following a fault on the Ontario #2 69 kV transformer.
17. **Paulsboro #2 69 kV Transformer Sectionalized** – Restores Valero Packing Tap-Paulsboro 69 kV line and Beckett-Paulsboro 69 kV line following a fault on the Paulsboro #2 69 kV transformer.
18. **Pine Hill #1 69 kV Transformer Sectionalized** – Restores Pine Hill 69 kV Bus following a fault on the Pine Hill #1 69 kV transformer.
19. **Pine Hill #3 69 kV Transformer Sectionalized** – Restores Pine Hill 69 kV Bus following a fault on the Pine Hill #3 69 kV transformer.
20. **Pine Hill - Terrace – Pitman 69 kV Sectionalized**– Restores Pine Hill-Terrace or Terrace-Pitman following a fault on Terrace-Pitman or Pine Hill-Terrace respectively.
21. **Pleasantville #4 69 kV Transformer Sectionalized** – Restores Lewis-Pville 69 kV line following a fault on the Pville #4 69 kV transformer.
22. **Pleasantville #5 69 kV Transformer Sectionalized** – Restores Lewis-Pville 69 kV line following a fault on the Pville #5 69 kV transformer.
23. **Second Street #1 69 kV Transformer Sectionalized** – Restores Sherman Avenue-Second Street 69 kV line following a fault on the Second Street #1 69 kV transformer.
24. **Second Street #2 69 kV Transformer Sectionalized** – Restores Sherman Avenue-Second Street 69 kV line following a fault on the Second Street #2 69 kV transformer.
25. **Second Street #Wheat 2 69 kV Transformer Sectionalized** – Restores Sherman Avenue-Second Street 69 kV line following a fault on the Second Street #Wheat 2 69 kV transformer.
26. **Silver Lake #2 69 kV Transformer Sectionalized** – Restores Silver Lake 69 kV Bus following a fault on the Silver Lake #2 69 kV transformer.
27. **Swainton #2 69 kV Transformer Sectionalized** – Restores Peermont-Swainton 69 kV line following a fault on the Swainton #2 69 kV transformer.
28. **Tuckahoe #1 69 kV Transformer Sectionalized** – Restores Mill-Tuckahoe 69 kV line and Dennis-Tuckahoe 69 kV line following a fault on the Tuckahoe #1 69 kV transformer.
29. **Upper Pittsgrove #Load 138 kV Transformer Sectionalized** – Restores Churchtown-Upper Pittsgrove 138 kV line and Landis-Upper Pittsgrove 138 kV line following a fault on the Upper Pittsgrove #Load 138 kV transformer.
30. **Washington #1 69 kV Transformer Sectionalized** – Restores 69 kV circuit breakers 'B' and 'C' at Washington following a fault on the Washington #1 69 kV Transformer.

31. **Washington #2 69 kV Transformer Sectionalized** – Restores 69 kV circuit breakers 'A' and 'C' at Washington following a fault on the Washington #1 69 kV Transformer.
32. **Woodstown #3 69 kV Transformer Sectionalized** – Restores Churchtown-Woodstown 69 kV line, Laurel-Woodstown 69 kV line, High Street-Woodstown 69 kV line and Salem-Woodstown 69 kV line following a fault on the Woodstown #3 69 kV transformer.

Dayton Power and Light Company (DAY)

1. **Alpha "BK-7" 138/69 kV Sectionalized** – Restores the Alpha – Greene and Alpha – Bellbrook 138 kV lines following a fault on the Alpha "BK-7".
2. **Darby "BK-7" 138/69 kV Sectionalized** – Restores the 138 kV and 69 kV Bus Breakers following a fault on the transformers so that the two 138 kV lines are not tied through the only remaining breaker.
3. **New Carlisle "BK-7" 138/69 kV Sectionalized** – Restores the New Carlisle – Miami 138 kV line and the New Carlisle – Phoneton 69 kV line following a fault on the transformer. Also, the New Carlisle – Bath 138 kV line and the New Carlisle – Huber Heights 69 kV lines will no longer be radially feeding distribution load following a fault on the New Carlisle "BK-7".
4. **Overlook "BK-7" 138/69 kV Sectionalized** – Restores the Knollwood – Overlook – Monument 138 kV line following a fault on the transformer.
5. **Shelby - Honda Sectionalized** – Restores the Shelby-Honda line segment for a fault on the Shelby-Honda-Amsterdam line.
6. **Sugar Creek "BK-N" 345/138 kV Sectionalized** – Restores the 345 kV and 138 kV Bus Breakers following a fault on the transformer.
7. **Sugar Creek "BK-S" 345/138 kV Sectionalized** – Restores the 345 kV Bus Breakers following a fault on the transformer. **NOTE:** The low side ring bus breakers "B" & "K" remain open and do not sectionalize.
8. **Urbana "BK-7" 138/69 kV Sectionalized** – Restores the 138 kV and 69 kV Bus Breakers following a fault on the transformer.

Delmarva Power and Light (DPL)

1. **Basin Rd – Churchmans Tap – Keeney 138 kV Sectionalized** – Restores Basin Rd-Churchmans Tap or Churchmans Tap-Keeney following a fault on Churchmans Tap-Keeney or Basin Rd-Churchmans respectively.

Dominion Virginia Electric Power (DOM)

1. **Acca #1 115/13 kV Transformer Sectionalized** – Restores the Acca – Lakeside and Acca – Hermtage 115 kV lines for a fault on the Acca #1 115/13 kV transformer.

2. **Acca #2 115/13 kV Transformers Sectionalized** – Restores the Acca – Hermtage, Acca – Lakeside and Acca – Northwest 115 kV lines for a fault on the Acca #2 115/13 kV transformers.
3. **Braddock #1 230/35kV Transformer Sectionalized** – Restores the 230 kV Bus Breakers and Braddock-Annandale 297 line for a fault on the Braddock #1 230/35 kV transformer.
4. **Braddock #2 230/35kV Transformer Sectionalized** – Restores the 230 kV Bus Breakers and Braddock-Annandale 294 line for a fault on the Braddock #2 230/35 kV transformer.
5. **Brambleton #1 500/230 kV Transformer Sectionalized** – Restores the 500 kV Bus Breakers for a fault on the Brambleton #1 500/230 kV transformer.
6. **Brambleton #2 500/230 kV Transformer Sectionalized** – Restores the 500 kV Bus Breakers for a fault on the Brambleton #2 500/230 kV transformer.
7. **Bristers #1 500/230 kV Transformer Sectionalized** – Restores the 500 kV Ring Bus Breakers for a fault on the Bristers #1 500/230 kV transformer.
8. **Bull Run-Burke 244 Sectionalized** – Restores the Bull Run #6 transformer following a fault on and isolation of the 244 line.
9. **Burton-Virginia Beach 27 sectionalized** – Restores Long Creek transformer # 1 & 2 and either the 27 line from Long Creek-Virginia Beach or the 27 line from Burton-Long Creek following a permanent fault on a section of the 27 line.
10. **Carson #1 500/230 kV Transformer Sectionalized** – Restores the 500 kV and 230 kV Bus Breakers for a fault on the Carson #1 500/230 kV transformer.
11. **Carson #2 500/230 kV Transformer Sectionalized** – Restores the 500 kV Bus Breakers for a fault on the Carson #2 500/230 kV transformer.
12. **Carson-Clubhouse 238 Sectionalized-** Restores the Clubhouse 230 kV bus and transformer #1 following a fault on and isolation of the 238 line.
13. **Carson-Poe 2002 Sectionalized-** Restores the 230 kV bus and transformer #5 at Poe following a fault on and isolation of the 2002 line.
14. **Chesterfield-Tyler-Poe 2003 Sectionalized-** Restores the 230 kV bus and transformer #6 at Poe following a fault on and isolation of the 2003 line.
15. **Clifton #1 500/230 kV Transformer Sectionalized** – Restores the 500 kV Bus Breakers which restores the Clifton – Mosby 500 kV line for a fault on the Clifton #1 500/230 kV transformer.
16. **Clifton #2 500/230 kV Transformer Sectionalized** – Restores the 500 kV Bus Breakers which restores the Clifton-Ox line following a fault on the Clifton #2 500/230 kV transformer.
17. **Clubhouse #1 230/115 kV Transformer Sectionalized** – Restores Line 238 (Clubhouse – Carson) following a fault on the Clubhouse #1 230/115 kV transformer.
18. **Dooms #1 115/22 kV Transformer Sectionalized** – Restores the Dooms – Dupont Waynesboro and Dooms – Fishersville 115 kV lines and Dooms #6 230/115 kV transformer for a fault on the Dooms #1 115/22 kV transformer.

19. **Dooms #2 115/22 kV Transformer Sectionalized** – Restores the Dooms – Midway DP, Dooms – Brand DP and Dooms – Waynesboro 115 kV lines for a fault on the Dooms #2 115/22 kV transformer.
20. **Dooms #7 500/230 kV Transformer Sectionalized** – Restores the 500 kV Bus Breakers for a fault on the Dooms #7 500/230 kV transformer.
21. **Dooms #9 500/230 kV Transformer Sectionalized** – Restores the 500 kV Bus Breakers for a fault on the Dooms #9 500/230 kV transformer.
22. **Elmont #1 500/230 kV Transformer Sectionalized** – Restores the 500 kV Bus Breakers for a fault on the Elmont #1 500/230 kV transformer.
23. **Elmont #2 500/230 kV Transformer Sectionalized** – Restores the 500 kV Bus Breakers for a fault on the Elmont #2 500/230 kV transformer.
24. **Endless Caverns #3 230/115 kV Transformer Sectionalized** – Restores the 230 kV Bus Breakers for a fault on the Endless Caverns #3 230/115 kV transformer.
25. **Endless Caverns #4 230/115 kV Transformer Sectionalized** – Restores the 230 kV High Side Breakers for a fault on the Endless Caverns #4 230/115 kV transformer.
26. **Endless Caverns #5 230/115 kV Transformer Sectionalized** – Restores the 230 kV Bus Breakers for a fault on the Endless Caverns #5 230/115 kV transformer.
27. **Everetts #2 230/115 kV Transformer Sectionalized** – Restores the 230 kV Ring Bus Breakers for a fault on the Everetts #2 230/115 kV transformer.
28. **Farmville #1 115/13 kV Transformers Sectionalized** – Restores the Farmville – Willismount, Farmville – Moran DP 115 kV lines and Farmville #4 230/115 kV transformers for a fault on the Farmville #1 115/13 kV transformers.
29. **Farmville #5 230/115 kV Transformer Sectionalized** – Restores the Farmville – Buckingham 230 kV line following a fault on the Farmville #5 230/115 kV transformer.
30. **Fredericksburg #6 230/35 kV Transformer Sectionalized** – Restores the 230 kV Bus Breakers and Fredericksburg #7 230/115 kV transformer for a fault on the Fredericksburg #6 230/35 kV transformer.
31. **Fredericksburg #7 230/115 kV Transformer Sectionalized** – Restores the 230 kV Bus Breakers for a fault on the Fredericksburg #7 230/115 kV transformer.
32. **Gainesville #3 230/115 kV Transformer Sectionalized** – Restores the 230 kV Bus Breakers for a fault on the Gainesville #3 230/115 kV transformer.
33. **Glebe-Crystal 275 Sectionalized** – Restores Glebe Bus #5 following a fault on Line 275.
34. **Glebe-Crystal 276 Sectionalized** – Restores Glebe Bus #6 following a fault on Line 276.
35. **Gordonsville #1 230/115 kV Transformer Sectionalized** – Restores the 230 kV Bus Breakers for a fault on the Gordonsville #1 230/115 kV transformer.
36. **Gordonsville #3 230/115 kV Transformer Sectionalized** – Restores the 230 kV Bus Breakers for a fault on the Gordonsville #3 230/115 kV transformer.
37. **Greenwich #1 230/115 kV Transformer Sectionalized** – Restores the 230 kV Bus Breakers for a fault on the Greenwich #1 230/115 kV transformer.

38. **Greenwich #2 230/115 kV Transformer Sectionalized** – Restores the 230 kV Bus Breakers for a fault on the Greenwich #2 230/115 kV transformer.
39. **Grottoes #4 230/115 kV Transformer Sectionalized** – Restores Line 272 (Dooms – Grottoes) following a fault on the Grottoes #4 230/115 kV transformer.
40. **Grottoes-Dooms 272 Sectionalized**- Restores the Grottoes 230 kV bus and transformer #4 following a fault on and isolation of the 272 line.
41. **Harrisonburg #1 115/35 kV Transformer Sectionalized** – Restores the Harrisonburg – Peach Grove, Harrisonburg – Dayton DP 115 kV lines, Harrisonburg #5 230/115 kV transformer and Harrisonburg #3 115/69 kV transformer for a fault on the Harrisonburg #1 115/35 kV transformer.
42. **Harrisonburg #5 230/115 kV Transformer Sectionalized** – Restores the 230 kV Bus Breakers and Harrisonburg #4 230/69 kV transformer for a fault on the Harrisonburg #5 230/115 kV transformer.
43. **Harrisonburg TX#4 Sectionalized** – Restores the 230 kV Bus Breakers following a fault on the transformer.
44. **Harrisonburg TX#6 Sectionalized** – Restores the 230 kV Bus Breakers following a fault on the transformer.
45. **Hayfield #1 230/35kV Transformer Sectionalized** – Restores the 230 kV Bus Breakers and Hayfield-Vandorn 210 line for a fault on the Hayfield #1 230/35 kV transformer.
46. **Hayfield #2 230/35kV Transformer Sectionalized** – Restores the 230 kV Bus Breakers for a fault on the Hayfield #1 230/35 kV transformer.
47. **Hopewell #1 230/35 kV Transformers Sectionalized** – Restores the 230 kV Bus #1 Breakers for a fault on the Hopewell #1 230/35 kV transformers.
48. **Hopewell #2 230/35 kV Transformer Sectionalized** – Restores the 230 kV Bus Breakers for a fault on the Hopewell #2 230/35 kV transformer.
49. **Idylwood #1 230/35 kV Transformer Sectionalized** – Restores the Idylwood – Braddock, Idylwood – Gallows Road and Idylwood – Redfield 230 kV lines for a fault on the Idylwood #1 230/35 kV transformer.
50. **Industrial Park #2 115/35 kV Transformers Sectionalized** – Restores the Industrial Park – Reeves Avenue and Industrial – Thole Street 115 kV lines for a fault on the Industrial Park #2 115/35 kV transformers.
51. **Jefferson Street #1 230/35 kV Transformer Sectionalized** – Restores the Jefferson Street – Virginia Hills 230 kV line for a fault on the Jefferson Street #1 230/35 kV transformer.
52. **Jefferson Street #2 230/35 kV Transformers Sectionalized** – Restores the Jefferson Street – North Alexandria and Jefferson Street – Belvoir 230 kV lines for a fault on the Jefferson Street #2 230/35 kV transformers.
53. **Kitty Hawk #2 230/115 kV Transformer Sectionalized** – Restores the 230 kV Bus Breakers for a fault on the Kitty Hawk #2 230/115 kV transformer.
54. **Ladysmith #1 500/230 kV Transformer Sectionalized** – Restores the 500 kV Bus Breakers for a fault on the Ladysmith #1 500/230 kV transformer.

55. **Ladysmith #2 500/230 kV Transformer Sectionalized** – Restores the 500 kV Bus Breakers for a fault on the Ladysmith #2 500/230 kV transformer.
56. **Landstown #1 230/115 kV Transformer Sectionalized** – Restores the 230 kV Bus Breakers for a fault on the Landstown #1 230/115 kV transformer.
57. **Landstown #2 230/115 kV Transformer Sectionalized** – Restores the 230 kV Bus Breakers for a fault on the Landstown #2 230/115 kV transformer.
58. **Lanexa-Lightfoot 2113 Sectionalized** – Restores the Lanexa #2 transformer following a fault on and isolation of the Lanexa-Lightfoot 2113 line.
59. **Lexington #1 500/230 kV Transformer Sectionalized** – Restores the 500 kV Bus Breakers for a fault on the Lexington #1 500/230 kV transformer.
60. **Lexington #3 500/230 kV Transformer Sectionalized** – Restores the 500 kV Ring Bus Breakers for a fault on the Lexington #3 500/230 kV transformer.
61. **Locks #1 115/13 kV Transformer Sectionalized** – Restores the Locks – Harvell 115 kV line and Locks #7 230/115 kV transformer for a fault on the Locks #1 115/13 kV transformer.
62. **Locks #2 115/13 kV Transformer Sectionalized** – Restores the Locks – Harrowgate and Locks – Reams DP 115 kV lines for a fault on the Locks #2 115/13 kV transformer.
63. **Locks #6 230/115 kV Transformer Sectionalized** – Restores Line 205 (Locks - Chesterfield) following a fault on the Locks #6 230/115 kV transformer.
64. **Loudoun #1 500/230 kV Transformer Sectionalized** – Restores the 500 kV Bus Breakers for a fault on the Loudoun #1 500/230 kV transformer.
65. **Loudoun #2 500/230 kV Transformer Sectionalized** – Restores the 500 kV Bus Breakers for a fault on the Loudoun #2 500/230 kV transformer.
66. **Midlothian #6 500/230 kV Transformer Sectionalized** – Restores the 500 kV Bus Breakers for a fault on the Midlothian #6 500/230 kV transformer.
67. **Midlothian-Bremo 2027 Sectionalized** - Restores the Midlothian 230 kV Breakers and TX#1 following a fault and isolation of the 2027 line.
68. **Midlothian-Spruance 282 Sectionalized** - Restores the Midlothian 230 kV Breakers and TX#5 following a fault and isolation of the 282 line.
69. **Morrisville #1 500/230 kV Transformer Sectionalized** – Restores the 500 kV Bus Breakers for a fault on the Morrisville #1 500/230 kV transformer.
70. **Morrisville #2 500/230 kV Transformer Sectionalized** – Restores the 500 kV Bus Breakers for a fault on the Morrisville #2 500/230 kV transformer.
71. **North Anna TX#1 Sectionalized** – Restores 500 kV Bus #1 Breakers Wt576 and XT573 following a fault on the transformer.
72. **Northeast #9 230/115 kV Transformer Sectionalized** – Restores the 230 kV Bus Breakers for a fault on the Northeast #9 230/115 kV transformer.
73. **Northern Neck #4 230/115 kV Transformer Sectionalized** – Restores the 230 kV Bus Breakers for a fault on the Northern Neck #4 230/115 kV transformer.

74. **Northwest #9 115/13 kV Transformer Sectionalized** – Restores the Northwest – River Road, Northwest – Elmont and Northwest – Acca 115 kV lines for a fault on the Northwest #9 115/13 kV transformer.
75. **Oakwood #1 115/35 kV & #3 115/13 kV Transformers Sectionalized** – Restores the Oakwood – Thole Street 115 kV line for a fault on the Oakwood #1 115/35 kV & #3 115/13 kV transformers.
76. **Oakwood #2 115/35 kV & #4 115/13 kV Transformers Sectionalized** – Restores the Oakwood – Taussig and Oakwood – Little Creek 115 kV lines for a fault on the Oakwood #2 115/35 kV & #4 115/13 kV transformers.
77. **Ox #1 500/230 kV Transformer Sectionalized** – Restores the 500 kV Bus Breakers for a fault on the Ox #1 500/230 kV transformer.
78. **Ox #2 500/230 kV Transformer Sectionalized** – Restores the 500 kV Bus Breakers for a fault on the Ox #2 500/230 kV transformer.
79. **Peninsula #1 115/35 kV Transformers Sectionalized** – Restores the Peninsula – Nasa, Peninsula – Whealton, Peninsula – Magruder, Peninsula – Seaford 115 kV lines and Peninsula #4 230/115 kV transformer for a fault on the Peninsula #1 115/35 kV transformers.
80. **Peninsula #4 230/115 kV Transformer Sectionalized** – Restores Line 288 (Peninsula – Yorktown) following a fault on the Peninsula #4 230/115 kV transformer.
81. **Peninsula-Tabb-Yorktown 288 Sectionalized** – Restores Peninsula #4 and #5 transformer and the 230 kV bus at Peninsula following a fault on and isolation of the 288 line.
82. **Plaza #1 115/13 kV Transformers Sectionalized** – Restores the Plaza – Nation Cylinder Gas, Plaza – Manchester 115 kV lines and Plaza #4 230/115 kV transformer for a fault on the Plaza #1 115/13 kV transformers.
83. **Possum Point #1 500/230 kV Transformer Sectionalized** – Restores the 500 kV Bus Breakers for a fault on the Possum Point #1 500/230 kV transformer.
84. **Reeves Ave #4 230/115 kV Transformer Sectionalized** – Restores the 230 kV Bus Breakers for a fault on the Reeves Ave #4 230/115 kV transformer.
85. **Reeves Ave #5 230/115 kV Transformer Sectionalized** – Restores the 230 kV Bus Breakers for a fault on the Reeves Ave #5 230/115 kV transformer.
86. **Remington #3 230/115 kV Transformer Sectionalized** – Restores Line 2077 (Remington – Remington CT) following a fault on the Remington #3 230/115 kV transformer.
87. **Remington CT #9 230/115 kV Transformer Sectionalized** – Restores the 230 kV High Side Breakers for a fault on the Remington CT #9 230/115 kV transformer.
88. **Sewells Point #5 230/115 kV Transformer Sectionalized** – Restores the 230 kV Bus Breakers for a fault on the Sewells Point #5 230/115 kV transformer.
89. **Spotsylvania #1 500/115 kV Transformer Sectionalized** – Restores the 500 kV Bus Breakers for a fault on the Spotsylvania #1 500/115 kV transformer.
90. **Suffolk #5 230/115 kV Transformer Sectionalized** – Restores the 230 kV High Side Breakers for a fault on the Suffolk #5 230/115 kV transformer.

91. **Suffolk #7 500/230 kV Transformer Sectionalized** – Restores the 500 kV Ring Bus Breakers for a fault on the Suffolk #7 500/230 kV transformer.
92. **Suffolk #8 500/230 kV Transformer Sectionalized** – Restores the 500 kV Ring Bus Breakers for a fault on the Suffolk #8 500/230 kV transformer.
93. **Surry RSS#1 Sectionalized** – Restores the 500 kV Bus Breakers following a fault on the transformer.
94. **Valley #1 500/230 kV Transformer Sectionalized** – Restores the 500 kV Ring Bus Breakers for a fault on the Valley #1 500/230 kV transformer.
95. **Valley #2 500/230 kV Transformer Sectionalized** – Restores the 500 kV Ring Bus Breakers for a fault on the Valley #2 500/230 kV transformer.
96. **Virginia Beach #3 115/13 kV Transformer Sectionalized** – Restores the Virginia Beach – Pendleton 115 kV line and Virginia Beach #5 230/115 kV transformer for a fault on the Virginia Beach #3 115/13 kV transformer.
97. **Virginia Beach #2 115/35 kV & #4 115/13 kV Transformers Sectionalized** – Restores the Virginia Beach – Bains Store 115 kV line and Virginia Beach #6 230/115 kV transformer for a fault on the Virginia Beach #2 115/35 kV & #4 115/13 kV transformers.
98. **Whealton #2 230/115 kV Transformer Sectionalized** – Restores the 230 kV High Side Breakers for a fault on the Whealton #2 230/115 kV transformer.
99. **Whiteoak #1 230/13kV Transformer Sectionalized** – Restores the 230 kV Bus Breakers for a fault on the Whiteoak #1 230/13 kV transformer.
100. **Whiteoak #2 230/13kV Transformer Sectionalized** – Restores the 230 kV Bus Breakers for a fault on the Whiteoak #2 230/13 kV transformer.
101. **Yadkin #1 500/230 kV Transformer Sectionalized** – Restores the 500 kV Ring Bus Breakers for a fault on the Yadkin #1 500/230 kV transformer.
102. **Yadkin #3 230/115 kV Transformer Sectionalized** – Restores the 230 kV Ring Bus Breakers for a fault on the Yadkin #3 230/115 kV transformer.
103. **Yadkin #5 500/230 kV Transformer Sectionalized** – Restores the 500 kV Ring Bus Breakers for a fault on the Yadkin #5 500/230 kV transformer.
104. **Yorktown #9 230/115 kV Transformer Sectionalized** – Restores the 230 kV Bus Breakers for a fault on the Yorktown #9 230/115 kV transformer.
105. **Yorktown TX#3 Sectionalized** – Restores the 230 kV Bus Breakers following a fault on the transformer.

Duke Energy Ohio Kentucky (DEOK)

1. **East Wood-Hillcrest 138 kV Sectionalized** – Restores the East Wood – Ford Batavia 138 kV line following a fault on the East Wood-Hillcrest 8887 138 kV line.

Duquesne Light Company (DLCO)

1. **Clinton #Load 138/25 kV Transformer Sectionalized** – Restores the Clinton – Findlay 138 kV line and Clinton #1 345/138 kV transformer for a fault on the Clinton #Load 138/25 kV transformer.
2. **Dravosburg 138/69 kV transformer #1 Sectionalized** – Restores the Elwyn-Brentwood-Dravosburg Z-70 138 kV line and the Carson-Homestead- Dravosburg Z-87 138 kV line following a fault on the Dravosburg 138/69 kV transformer #1.
3. **Elwyn #2 138/25 kV Transformer Sectionalized** – Restores the Elwyn – Collier 138 kV line for a fault on the Elwyn #2 138/25 kV transformer.
4. **Legionville #1 138/25 kV Transformer Sectionalized** – Restores the Legoinville – Wolfe Run and Legoinville – Hopewell 138 kV lines for a fault on the Legionville #1 138/25 kV transformer.
5. **Legionville #2 138/25 kV Transformer Sectionalized** – Restores the Legoinville – Crescent and Legoinville – Koppel Steel 138 kV lines for a fault on the Legionville #2 138/25 kV transformer.
6. **Logans Ferry #1 138/25 kV Transformer Sectionalized** – Restores the Logans Ferry – Highland, Logans Ferry – Cheswick and Logans Ferry – Universal 138 kV lines for a fault on the Logans Ferry #1 138/25 kV transformer.
7. **Raccoon #1 138/25 kV Transformer Sectionalized** – Restores the Raccoon – Valley Tap and Raccoon – Potter SS 138 kV lines for a fault on the Raccoon #1 138/25 kV transformer.
8. **Raccoon #2 138/25 kV Transformer Sectionalized** – Restores the Raccoon – Beaver Valley and Raccoon – Potter SS 138 kV lines for a fault on the Raccoon #2 138/25 kV transformer.
9. **Woodville #3 138/25 kV Transformer Sectionalized** – Restores the Woodville – Collier and Woodville – Piney Fork 138 kV lines for a fault on the Woodville #3 138/25 kV transformer.

FirstEnergy East (FE-E)

1. **Caterpillar Tractor-White Ford-Glades 115KV Sectionalized** – Restore Caterpillar Tractor-White Ford or Glades-White Ford following a fault on Glades-White Ford or Caterpillar Tractor-White Ford respectively.
2. **Claysburg-Curryville-Saxton 115KV Sectionalized**– Restore Claysburg-Curryville or Saxton-Curryville following a fault on Saxton-Curryville or Claysburg-Curryville respectively.
3. **Collins-Cly-Newberry 115KV Sectionalized** – Restore Round Top-Newberry and Middletown Junction-Collins following a fault on Collins-Cly-Newberry.
4. **Collins-Middletown Junction 115 kV Sectionalized** – Restore Collins-Cly-Newberry- Round Top 115 kV following a fault on the Collins-Middletown Junction 115 kV line.
5. **E.Towanda-Tenn Gas-S.Troy-Everts Drive 115 kV Line Sectionalized** – Restore E. Towanda-Tenn Gas-S. Troy or S. Troy-Everts Drive following a fault on the S. Troy-Everts or E. Towanda-Tenn Gas-S. Troy respectively.

6. **Eclipse-Clark Summit-Grandview 115KV Sectionalized** – Restore Eclipse-Clark Summit or Grandview-Clark Summit following a fault on Grandview-Clark Summit or Eclipse-Clark Summit respectively.
7. **Everts Drive-South Troy-Tennessee Gas 115KV Sectionalized** – Restore Everts Drive-South Troy and South Troy Transformers or Tennessee Gas-South Troy and South Troy Transformers following a fault on Tennessee Gas-South Troy or Everest Drive-South Troy respectively. Restore Everts Drive-South Troy and Tennessee Gas-South Troy following a fault on either South Troy Transformer.
8. **Forest #1 230/115 kV Transformer Sectionalized** – Restores Squab Hollow – Forest 230 kV line and Glade – Forest 230 kV Line following a fault on the Forest #1 230/115 kV transformer.
9. **Gardners-Dillsburg-Round Top 115KV Sectionalized**– Restore Gardners-Dillsburg or Round Top-Dillsburg following a fault on Round Top-Dillsburg or Gardners-Dillsburg respectively.
10. **Garman-Westover South-Madera 115KV Sectionalized** – Restore Garman-Westover South or Madera-Westover South following a fault on Madera-Westover South or Garman-Westover South respectively.
11. **Glades-West Hellam-Prospect 115KV Sectionalized** – Restore Glades-West Hellam or Prospect-West Hellam following a fault on Prospect-West Hellam or Glades-West Hellam respectively.
12. **Grandview-Haynie-Piney 115KV Sectionalized**– Restore Grandview-Haynie or Piney-Haynie following a fault on Piney-Haynie or Grandview-Haynie respectively.
13. **Green Garden-Downing Ave-Buffalo Road 115KV Sectionalized**– Restore Green Garden-Downing Ave and Downing Ave Transformer or Buffalo Road-Downing Ave and Downing Ave Transformer following a fault on Buffalo Road-Downing Ave or Green Garden-Downing Ave respectively. Restore Green Garden-Downing Ave and Buffalo Road-Downing Ave following a fault on Downing Ave Transformer.
14. **Hector-Sabinsville-Niles Valley 115KV Sectionalized** – Restore Hector-Sabinsville or Niles Valley-Sabinsville following a fault on Niles Valley-Sabinsville or Hector-Sabinsville respectively.
15. **Hillclay Jct-Salix-Krayn 115KV Sectionalized** – Restore Hillclay Junction-Salix or Krayn-Salix following a fault on Krayn-Salix or Hillclay Junction-Salix respectively.
16. **HomerCity-Quemahoning-Hooversville 230KV Sectionalized** – Restore Homer City-Quemahoning or Hooversville-Quemahoning following a fault on Hooversville-Quemahoning or Homer City-Quemahoning respectively.
17. **Hooversville-Ralphton-Somerset 115KV Sectionalized** – Restore Hooversville-Ralphton or Somerset-Ralphton following a fault on Somerset-Ralphton or Hooversville-Ralphton respectively.
18. **Hooversville-Scalp Level-Rachel Hill 115KV Sectionalized** – Restore Hooversville-Scalp Level or Rachel Hill-Scalp Level following a fault on Rachel

Hill-Scalp Level or Hooversville-Scalp Level respectively.

19. **Hunterstown-Oxford-North Hanover 115KV Sectionalized** – Restore Hunterstown-Oxford or North Hanover-Oxford following a fault on North Hanover-Oxford or Hunterstown-Oxford respectively.
20. **Jackson-Bair-Hill 115KV Sectionalized** – Restore Jackson-Bair or Hill-Bair following a fault on Hill-Bair or Jackson-Bair respectively.
21. **Jackson-Menges Mills-PH Glatfelter 115KV Sectionalized** – Restore Jackson-Menges Mills or PH Glatfelter-Menges Mills following a fault on PH Glatfelter-Menges Mills or Jackson-Menges Mills respectively.
22. **JE Baker-Taxville-Westgate 115KV Sectionalized** – Restore JE Baker-Taxville or Westgate-Taxville following a fault on Westgate-Taxville or JE Baker-Taxville respectively.
23. **Marshall-Grover-Scotch Hollow 230KV Sectionalized**– Restore Marshall-Grover or Scotch Hollow-Grover and Grover Transformer following a fault on Scotch Hollow-Grover or Marshall-Grover respectively. Restore Marshall-Grover and Scotch Hollow-Grover following a fault on Grover Transformer.
24. **Middletown Jct-Collins-Newberry 115KV Sectionalized**– Restore Newberry-Collins or Middletown Junction-Collins following a fault on Middletown Junction-Collins or Newberry-Collins respectively.
25. **North Meshoppen-Oxbow-Lackawanna 230KV Sectionalized** – Restore North Meshoppen-Oxbow or Lackawanna-Oxbow following a fault on Lackawanna-Oxbow or North Meshoppen-Oxbow respectively.
26. **Pierce Brook-Two Mile Run-Potter 115KV Sectionalized** – Restore Pierce Brook-Two Mile Run or Potter-Two Mile Run following a fault on Potter-Two Mile Run or Pierce Brook-Two Mile Run respectively.
27. **Round Top-Allen-PPGI 115KV Sectionalized** – Restore PPGI-Allen or Round Top-Allen following a fault on Round Top-Allen or PPGI-Allen respectively.
28. **Round Top-Newberry 115 kV Sectionalized** – Restore Middletown Junction-Collins- Cly-Newberry- 115 kV following a fault on the Round Top-Newberry 115 kV line.
29. **Saxton-Three Springs-Shade Gap 115KV Sectionalized** – Restore Saxton-Three Springs or Shade Gap-Three Springs following a fault on Shade Gap-Three Springs or Saxton-Three Springs respectively.
30. **Shade Gap-Reeds Gap Tap-Lewistown 115KV Sectionalized** – Restore Shade Gap-Reeds Gap Tap or Lewistown-Reeds Gap Tap following a fault on Lewistown-Reeds Gap Tap or Shade Gap-Reeds Gap Tap respectively.
31. **Shelocta-Edgewood-Lucerne 115KV Sectionalized**– Restore Shelocta-Edgewood or Lucerne-Edgewood following a fault on Lucerne-Edgewood or Shelocta-Edgewood respectively.
32. **Smith Street-Zions View-Locust Point Road-York Haven-Middletown Junction 115KV 977 line Sectionalized** – Restore Smith Street-Zions View or Middletown Junction-York Haven-Locust Point Road-Zions View following a fault

on Middletown Junction-York Haven-Locust Point Road-Zions View or Smith Street-Zions View, respectively.

33. **Springboro-Venango Junction-Morgan St-Edinboro South 115KV Sectionalized** – Restore Springboro-Venango Junction and Morgan St-Venango Junction or Edinboro South-Venango Junction and Morgan St-Venango Junction following a fault on Edinboro South-Venango Junction or Springboro-Venango Junction respectively. Restore Springboro-Venango Junction and Edinboro South-Venango Junction following a fault on Morgan St-Venango Junction.
34. **Springwood-Yoe 115KV Sectionalized** – Restore Springwood-Yoe following a fault on Yoe 115KV line.
35. **Trade City-Dixonville East-Glory 115KV Sectionalized**– Restore Trade City-Dixonville or Glory-Dixonville following a fault on Glory-Dixonville or Trade City-Dixonville respectively.
36. **Violet Hill-Mount Rose-Pleasantville 115KV Sectionalized** – Restore Violet Hill-Mount Rose or Pleasantville-Mount Rose following a fault on Pleasantville-Mount Rose or Violet Hill-Mount Rose respectively.
37. **Warren-Elm Street Tap-Warren South 115KV Sectionalized**– Restore Warren-Elm Street Tap or Warren South-Elm Street Tap following a fault on Warren South-Elm Street Tap or Warren-Elm Street Tap respectively. Restore Warren-Elm Street Tap and Warren South-Elm Street Tap following a fault on the Elm Street transformer.
38. **Wayne-Utica Junction-Eclipse 115KV Sectionalized** – Restore Wayne-Utica Junction or Eclipse-Utica Junction following a fault on Eclipse-Utica Junction or Wayne-Utica Junction respectively.
39. **Westfall-Tyrone North-Eagle Valley 115KV Sectionalized** – Restore Westfall-Tyrone North or Eagle Valley-Tyrone North following a fault on Eagle Valley-Tyrone North or Westfall-Tyrone North respectively.
40. **Westover-Madera-Bioenergy 115KV Sectionalized**– Restore Westover-Madera or Bioenergy-Madera following a fault on Bioenergy-Madera or Westover-Madera respectively.
41. **Whetstone-Harvey Run-Dubois 115KV Sectionalized**– Restore Whetstone-Harvey Run and Harvey Run Transformer or Dubois-Harvey Run and Harvey Run Transformer following a fault on Dubois-Harvey Run or Whetstone-Harvey Run respectively. Restore Whetstone-Harvey Run and Dubois-Harvey Run following a fault on Harvey Run Transformer.

FirstEnergy South (FE-S)

1. **Airco - Arroyo - Wylie Ridge 218 138kV line** – Restore Airco-Arroyo or Arroyo-Wylie Ridge following a fault on the Arroyo-Wylie Ridge or Airco-Arroyo respectively.
2. **Albright-Kingwood-Pruntytown 100 138kV line**– Restore Albright-Kingwood or Kingwood-Pruntytown following a fault on the Kingwood-Pruntytown or Albright-Kingwood respectively.

3. **Albright-Snowy Creek-Oakpark-Kelso Gap 138 kV line**– Restore Albright-Snowy Creek-Oakpark or Oakpark-Kelso Gap following a fault on Oakpark-Kelso Gap or Albright-Snowy Creek-Oakpark respectively.
4. **Allenport #1 138/25 kV Transformers Sectionalized** – Restores the Allenport – Charleroi and Allenport – Frazier 138 kV lines for a fault on the Allenport #1 138/25 kV transformers.
5. **Arroyo-Wylie Ridge 212 138kV line** – Restore Arroyo-Quaker State and Arroyo bus load following a fault on the Arroyo-Arroyo Jct - Wylie Ridge-S. Chester-E. Liverpool respectively.
6. **Backfork-Cowen-Crupperneck 138kV line** – Restore Backfork-Cowen or Cowen-Crupperneck following a fault on Cowen-Crupperneck or Backfork-Cowen respectively.
7. **Barnetts Run-Bridgeport Hill-Glen Falls 138kV line** – Restore Barnetts Run-Bridgeport Hill or Bridgeport Hill-Glen Falls following a fault on Bridgeport Hill-Glen Falls or Barnetts Run-Bridgeport Hill respectively.
8. **Bedington #1 500/138 kV Transformer Sectionalized** – Restores Bedington #3 500/138 kV transformer for a fault on the Bedington #1 500/138 kV transformer.
9. **Bedington #2 500/138 kV Transformer Sectionalized** – Restores Bedington #4 500/138 kV transformer for a fault on the Bedington #2 500/138 kV transformer.
10. **Bedington #3 500/138 kV Transformer Sectionalized** – Restores Bedington #1 500/138 kV transformer for a fault on the Bedington #3 500/138 kV transformer.
11. **Bedington #4 500/138 kV Transformer Sectionalized** – Restores Bedington #2 500/138 kV transformer for a fault on the Bedington #4 500/138 kV transformer.
12. **Bedington-Nipetown-Reid 138kV line**– Restore Bedington-Nipetown or Nipetown-Reid following a fault on Nipetown-Reid or Bedington-Nipetown respectively.
13. **Belmont #1 500/138 kV Transformer Sectionalized** – Restores Belmont #2 500/138 kV transformer for a fault on the Belmont #1 500/138 kV transformer.
14. **Belmont #2 500/138 kV Transformer Sectionalized** – Restores Belmont #1 500/138 kV transformer for a fault on the Belmont #2 500/138 kV transformer.
15. **Belmont-Middlebourne-Jacksonburg-Richwood Hill** – Restore Belmont-Jacksonburg or Jacksonburg-Richwood Hill following a fault on Jacksonburg-Richwood Hill or Belmont-Jacksonburg respectively.
16. **Bethelboro #2> 138/25 kV Transformers Sectionalized** – Restores the Bethelboro – North Union Tap2, Bethelboro – North Union Tap1 and Bethelboro – Yukon 138 kV lines for a fault on the Bethelboro #2> 138/25 kV transformers.
17. **Bethelboro-North Union-South Union-Gans-Lake Lynn 138kV line** – Restore Bethelboro-North Union-South Union or South Union-Gans-Lake Lynn following a fault on South Union-Gans-Lake Lynn or Bethelboro-North Union-South Union

respectively.

18. **Black Oak-Short Gap-Cumberland 138kV line** – Restore Black Oak-Short Gap or Short Gap-Cumberland following a fault on Short Gap-Cumberland or Black Oak-Short Gap respectively.
19. **Brookhaven-S. Morgantown-Pricehill 138kV line** – Restore Brookhaven-S. Morgantown or S. Morgantown-Pricehill following a fault on S. Morgantown-Pricehill or Brookhaven-S. M. Morgantown respectively.
20. **Buckhannon #3 138/66 kV Transformer Sectionalized** – Restores the Buckhannon – French Creek and Buckhannon – Rider SS 138 kV lines for a fault on the Buckhannon #3 138/66 kV transformer.
21. **Burma #71 138/25 kV Transformer Sectionalized** – Restores the Burma – Clarion, Burma – Armstrong 138 kV lines and Burma #1 138/115 kV transformer for a fault on the Burma #71 138/25 kV transformer.
22. **Burma #72 138/25 kV Transformer Sectionalized** – Restores the Burma – Kissinger JCT 138 kV line for a fault on the Burma #72 138/25 kV transformer.
23. **Burma-Clarion-Ridgway** – Restore Burma-Clarion or Clarion-Ridgway following a fault on Clarion-Ridgway or Burma-Clarion respectively.
24. **Butler #61 138/25 kV Transformer Sectionalized** – Restores the Butler – Cabot and Butler – Cabrey Jct Tap 138 kV lines for a fault on the Butler #61 138/25 kV transformer.
25. **Butler #62 138/25 kV Transformer Sectionalized** – Restores the Butler – Cabot, Butler – Karns City and Butler – Shanor Manor 138 kV lines for a fault on the Butler #62 138/25 kV transformer.
26. **Cabot #1 500/138 kV Transformer Sectionalized** – Restores Cabot #3 500/138 kV transformer for a fault on the Cabot #1 500/138 kV transformer.
27. **Cabot #2 500/138 kV Transformer Sectionalized** – Restores Cabot #4 500/138 kV transformer for a fault on the Cabot #2 500/138kV transformer.
28. **Cabot #3 500/138 kV Transformer Sectionalized** – Restores Cabot #1 500/138 kV transformer for a fault on the Cabot #3 500/138 kV transformer.
29. **Cabot #4 500/138 kV Transformer Sectionalized** – Restores Cabot #2 500/138 kV transformer for a fault on the Cabot #4 500/138 kV transformer.
30. **Cabot-Woodland-N. Point-Kiski Valley 138kV line** – Restore Cabot-Woodland-N. Point or N. Point-Kiski Valley following a fault on N. Point-Kiski Valley or Cabot-Woodland-N. Point respectively.
31. **Carroll #1 138/34.5 kV Transformer Sectionalized** – Restores the Carroll – Catoctin 138 kV line for a fault on the Carroll #1 138/34.5 kV transformer.
32. **Carroll-Taneytown-Germantown 138kV line** – Restore Carroll-Taneytown or Taneytown-Germantown following a fault on Taneytown-Germantown or Carroll-Taneytown respectively.
33. **Catoctin-Walkersville-Monocacy 138kV line** – Restore Catoctin-Walkersville or Walkersville-Monocacy following a fault on Walkersville-Monocacy or Catoctin-Walkersville respectively.

34. **Cecil #1= 138/25 kV Transformers Sectionalized** – Restores the Cecil – Enlow and Cecil – South Fayette 138 kV lines for a fault on the Cecil #1= 138/25 kV transformers.
35. **Cecil #62 138/25 kV Transformer Sectionalized** – Restores the Cecil – Crossgates, Cecil – Houston, and Cecil – Buffalo Jct 138 kV lines for a fault on the Cecil #62 138/25 kV transformer.
36. **Cecil-Crossgates-Peters 138kV line** – Restore Cecil-Crossgates or Crossgates-Peters following a fault on Crossgates-Peters or Cecil-Crossgates respectively.
37. **Charleroi #62 138/25 kV Transformer Sectionalized** – Restores the Charleroi – Gordon, Charleroi – Dry Run and Charleroi – Belmon 138 kV lines for a fault on the Charleroi #62 138/25 kV transformer.
38. **Charleroi #63 138/25 kV Transformer Sectionalized** – Restores the Charleroi – Vanceville, Charleroi – Yukon, Charleroi – Mitchell and Charleroi – Brownsville 138 kV lines for a fault on the Charleroi #63 138/25 kV transformer.
39. **Charleroi-Westraver-Yukon 138kV line** – Restore Charleroi-Westraver or Westraver-Yukon following a fault on Westraver-Yukon or Charleroi-Westraver respectively.
40. **Cheat Lake-Ruthbelle-Albright 138kV line** – Restore Albright-Ruthbelle or Ruthbelle – Cheat Lake following a fault on Ruthbelle – Cheat Lake or Albright-Ruthbelle 138 kV lines respectively.
41. **Connelsville #1= 138/25 kV Transformers Sectionalized** – Restores the Connelsville – Stoner Jct 138 kV line for a fault on the Connelsville #1= 138/25 kV transformers.
42. **Crupperneck #1 138/23 kV Transformer Sectionalized** – Restores the Crupperneck – Cowen, Crupperneck – Craigsville and Crupperneck – Nettie 138 kV lines for a fault on the Crupperneck #1 138/23 kV transformer.
43. **Crupperneck-Craigsville-Powell Mountain 138kV line** – Restore Crupperneck-Craigsville or Craigsville-Powell Mountain following a fault on Craigsville-Powell Mountain or Crupperneck-Craigsville respectively.
44. **Double Toll Gate #3 138/25 kV Transformer Sectionalized** – Restores the Double Toll Gate – Meadow Brook, Double Toll Gate – Old Chapel and Double Toll Gate – Riverton 138 kV lines for a fault on the Double Toll Gate #3 138/25 kV transformer.
45. **Double Toll Gate #4 138/25 kV Transformer Sectionalized** – Restores the Double Toll Gate – Greenwood and Double Toll Gate – Meadow Brook 138 kV lines for a fault on the Double Toll Gate #4 138/25 kV transformer.
46. **Double Toll Gate-Old Chapel-Millville 138kV line** – Restore Double Toll Gate-Old Chapel or Old Chapel-Millville following a fault on Old Chapel-Millville or Double Toll Gate-Old Chapel respectively.
47. **Doubs #1 500/230 kV Transformer Sectionalized** – Restores Doubs #3 500/230 kV transformer for a fault on the Doubs #1 500/230 kV transformer.
48. **Doubs #2 500/230 kV Transformer Sectionalized** – Restores Doubs #4 500/230 kV transformer for a fault on the Doubs #2 500/230 kV transformer.
49. **Doubs #3 500/230 kV Transformer Sectionalized** – Restores Doubs #1 500/230

kV transformer for a fault on the Doubs #3 500/230 kV transformer.

50. **Doubs #4 500/230 kV Transformer Sectionalized** – Restores Doubs #2 500/230 kV transformer for a fault on the Doubs #4 500/230 kV transformer.
51. **Dupont-Larkmead-Edgelawn 138kV line** – Restore Dupont-Larkmead or Larkmead-Edgelawn following a fault on Larkmead-Edgelawn or Dupont-Larkmead respectively.
52. **Edgelawn #1 138/66 kV Transformers Sectionalized** – Restores the Edgelawn – Larkmead and Edgelawn – Trissler 138 kV lines for a fault on the Edgelawn #1 138/66 kV transformers.
53. **Edgelawn #3 138/66 kV Transformer Sectionalized** – Restores the Edgelawn – Belmont and Edgelawn – Goff Run 138 kV lines for a fault on the Edgelawn #3 138/66 kV transformer.
54. **Elko #1 230/138 kV Transformer Sectionalized** – Restores the Elko 230 kV bus 1 for a fault on the Elko #1 230/138kV transformer.
55. **Everson #1 138/23 kV Transformer Sectionalized** – Restores the Everson – South Fairmont and Everson – Chesapeake 138 kV lines for a fault on the Everson #1 138/23 kV transformer.
56. **Everson-Chesapeake-Rivesville.400 138kV line** – Restore Everson-Chesapeake or Chesapeake-Rivesville following a fault on Chesapeake-Rivesville or Everson-Chesapeake respectively.
57. **Fairview #1 138/23 kV Transformer Sectionalized** – Restores the Fairview – Miracle Run, Fairview – Grant Town, Fairview – Dents Run and Fairview – Flat Run 138 kV lines for a fault on the Fairview #1 138/23 kV transformer.
58. **Fairview-Grant Town-Riversville.42 138kV line** – Restore Fairview-Grant Town or Grant Town-Riversville following a fault on Grant Town-Rivesville or Fairview-Grant Town respectively.
59. **Fawn #1 138/25 kV Transformer Sectionalized** – Restores the Fawn – Lawson Jct and Fawn – Silversville 138 kV lines for a fault on the Fawn #1 138/25 kV transformer.
60. **Finzel-Frostburg-Ridgeley 138kV line** – Restore Finzel-Frostburg or Frostburg-Ridgeley following a fault on Frostburg-Ridgeley or Finzel-Frostburg respectively.
61. **French Creek #1 138/25 kV Transformer Sectionalized** – Restores the French Creek – Buckhannon and French Creek – Heaters 138 kV lines for a fault on the Fawn #1 138/25 kV transformer.
62. **Gates Hill-Brownsville JCT-Charleroi 138kV line** – Restore Gates Hill-Brownsville Jct or Brownsville Jct-Charleroi following a fault on Brownsville Jct-Charleroi or Gates Hill-Brownsville Jct respectively.
63. **Gilboa #2 138/23 kV Transformer Sectionalized** – Restores the Gilboa – Enon Tap and Gilboa – Jones Branch Tap 138 kV lines for a fault on the Gilboa #2 138/23 kV transformer.
64. **Gilboa-Powell Mountain-Summersville-Grassy Falls 138kV line** – Restore Gilboa-Powell Mountain-Summersville or Summersville-Grassy Falls following a fault on Summersville-Grassy Falls or Gilboa-Powell Mountain-Summersville

respectively.

65. **Goff Run #1 138/34.5 kV Transformers Sectionalized** – Restores the Goff Run – Edgelawn and Goff Run – Grantsville 138 kV lines for a fault on the Goff Run #1 138/34.5 kV transformers.
66. **Gordon #2> 138/25 kV Transformers Sectionalized** – Restores the Goff Run – Lagonda 138 kV line for a fault on the Gordon #2> 138/25 kV transformers.
67. **Gordon-Lagonda-Windsor 138kV line** – Restore Gordon-Lagonda or Lagonda-Windsor following a fault on Lagonda-Windsor or Gordon-Lagonda respectively.
68. **Grand Point #1 138/69 kV Transformer Sectionalized** – Restores the Grand Point – Letterkenney, Grand Point – Guilford, Grand Point – Fayetteville 138 kV lines and Grand Point #1 138/69 kV transformer for a fault on the Grand Point #1 138/69 kV transformer.
69. **Grand Point-Fayetteville-W. Waynesboro 138kV line** – Restore Grand Point-Fayetteville or Fayetteville-W. Waynesboro following a fault on Fayetteville-W. Waynesboro or Grand Point-Fayetteville respectively.
70. **Guilford #1 138/34.5 kV Transformer Sectionalized** – Restores the Guilford 138 kV bus for a fault on the Guilford #1 138/34.5kV transformer.
71. **Guilford #2 138/69 kV Transformer Sectionalized** – Restores the Guilford 138 kV bus for a fault on the Guilford #2 138/69kV transformer.
72. **Halfway – Paramount 138 kV line sectionalized** - Restores the Halfway C 138 kV Bus and Paramount #2 Bus for a fault on the Halfway – Paramount 138 kV line.
73. **Harrison City-Penn-Luxor-N. Greensburg-Hempfield 138kV line** – Restore Harrison City-Penn-Luxor-N. Greensburg or N. Greensburg-Hempfield following a fault on N. Greensburg-Hempfield or Harrison City-Penn-Luxor-N. Greensburg respectively.
74. **Hempfield-Sewickly-Waltz Mills-Yukon 138kV line** – Restore Hempfield-Sewickly or Sewickly-Waltz Mills-Yukon following a fault on Sewickly-Waltz Mills-Yukon or Hempfield-Sewickly respectively.
75. **Huntingdon-Robbins-Yukon 138kV line** – Restore Huntingdon-Robbins or Robbins-Yukon following a fault on Robbins-Yukon or Huntingdon-Robbins respectively.
76. **Iron Bridge #2> 138/25 kV Transformers Sectionalized** – Restores the Iron Bridge – Layton Jct Tap and Iron Bridge – Donegal 138 kV lines for a fault on the Iron Bridge #2> 138/25 kV transformers.
77. **Karns City #1 138/25 kV Transformers Sectionalized** – Restores the Karns City – Kissinger JCT and Karns City – Butler 138 kV lines for a fault on the Karns City #1 138/25 kV transformers.
78. **Kiski Valley #1 138/25 kV Transformer Sectionalized** – Restores the Kiski Valley – Npointe2 and Kiski Valley – Big Pine Tap 138 kV lines for a fault on the Kiski Valley #1 138/25 kV transformer.
79. **Kiski Valley #1 138/25 kV Transformer Sectionalized** – Restores the Kiski Valley – Npointe2 and Kiski Valley – Big Pine Tap 138 kV lines for a fault on the Kiski Valley #1 138/25 kV transformer.

80. **Kittanning #2> 138/25 kV Transformers Sectionalized** – Restores the Kittanning – Alldam6 and Kittanning – Garrets Run JCT 138 kV lines for a fault on the Kittanning #2> 138/25 kV transformers.
81. **Lake Lynn-Cheat Lake 138kV line** – Restore Lake Lynn-Cheat Lake or Cheat Lake 138/69kV transformer following a fault on the Cheat Lake 138/69kV or Lake Lynn-Cheat Lake respectively.
82. **Lake Lynn-West Run-Collins Ferry 138kV line** – Restore Lake Lynn-West Run or West Run-Collins Ferry following a fault on West Run-Collins Ferry or Lake Lynn-West Run respectively.
83. **Lardin-Clarksville Jct-Luzerne-Malden-California-Charleroi 138kV line** – Restore Lardin-Clarksville Jct-Luzerne-Malden-California or California-Charleroi following a fault on California-Charleroi or Lardin-Clarksville Jct-Luzerne-Malden-California respectively.
84. **Lime Kiln #3 230/34.5 kV Transformer Sectionalized** – Restores the Lime Kiln – McCain and Lime Kiln – Doubs 230 kV lines for a fault on the Lime Kiln #3 230/34.5 kV transformer.
85. **Lime Kiln #4 230/34.5 kV Transformer Sectionalized** – Restores the Lime Kiln – Montgomery and Lime Kiln – Doubs 230 kV lines for a fault on the Lime Kiln #4 230/34.5 kV transformer.
86. **Long Reach 138/25 kV Transformer Sectionalized** – Restores the Long Reach – Paden City and Long Reach – Bens Run 138 kV lines for a fault on the Long Reach 138/25 kV transformer.
87. **Loughs Lane #1 138/66 kV Transformers Sectionalized** – Restores the Loughs Lane – Leadsville and Loughs Lane – Beverly 138 kV lines for a fault on the Loughs Lane #1 138/66 kV transformers.
88. **Loughs Lane #3 138/66 kV Transformer Sectionalized** – Restores the Loughs Lane – Parsons and Loughs Lane – Roar Creek 138 kV lines for a fault on the Loughs Lane #3 138/66 kV transformer.
89. **Loyalhanna #1= 138/25 kV Transformers Sectionalized** – Restores the Loyalhanna – Luxor and Loyalhanna – Edgewater 138 kV lines for a fault on the Loyalhanna #1= 138/25 kV transformers.
90. **Loyalhanna #2> 138/25 kV Transformers Sectionalized** – Restores the Loyalhanna – Bethlen and Loyalhanna – Bracken JCT 138 kV lines for a fault on the Loyalhanna #2> 138/25 kV transformers.
91. **Luxor #1= 138/25 kV Transformers Sectionalized** – Restores the Luxor – Loyalhanna, Luxor – Stony Springs JCT and Luxor – East Gate 138 kV lines for a fault on the Luxor #1= 138/25 kV transformers.
92. **Luxor-East Gate-Sony-King Farm 138kV line** – Restore Luxor-East Gate-Sony or Sony-King Farm following a fault on Sony-King Farm or Luxor-East Gate-Sony respectively.
93. **Marlowe – Halfway 138 kV line sectionalized** - Restores the Halfway A 138 kV Bus for a fault on the Marlowe – Halfway 138 kV line.
94. **McCalmont #1B= 138/25 kV Transformers Sectionalized** – Restores the

McCalmont – Mountain Gathering 138 kV line for a fault on the McCalmont #1B= 138/25 kV transformers.

95. **Meadow Brook #1 500/138 kV Transformer Sectionalized** – Restores Meadow Brook #3 500/138 transformer for a fault on the Meadow Brook #1 500/138 transformer.
96. **Meadow Brook #2 500/138 kV Transformer Sectionalized** – Restores Meadow Brook #4 500/138 transformer for a fault on the Meadow Brook #2 500/138 transformer.
97. **Meadow Brook #3 500/138 kV Transformer Sectionalized** – Restores Meadow Brook #1 500/138 transformer for a fault on the Meadow Brook #3 500/138 transformer.
98. **Meadow Brook #4 500/138 kV Transformer Sectionalized** – Restores Meadow Brook #2 500/138 transformer for a fault on the Meadow Brook #4 500/138 transformer.
99. **Meadow Brook – Strasburg 138 kV line sectionalized** – Restores the Strasburg A 138 kV Bus and the #2 Cap for a fault on the Meadow Brook – Strasburg 138 kV line.
100. **Millville-Feagans Mill-Stonewall 138kV line** – Restore Millville-Feagans Mill or Feagans Mill-Stonewall following a fault on Feagans Mill-Stonewall or Millville-Feagans Mill respectively.
101. **Monocacy #4 230/138 kV Transformer Sectionalized** – Restores the Monocacy 230 kV “B” bus for a fault on the Monocacy #4 230/138kV transformer.
102. **Monocacy-Old Farm-Ringgold 230kV line** – Restore Monocacy-Old Farm or Old Farm-Ringgold following a fault on Old Farm-Ringgold or Monocacy-Old Farm respectively.
103. **Paden City-New Martinsville-Natrium.68 138kV line**– Restore Paden City-New Martinsville or New Martinsville-Natrium following a fault on New Martinsville-Natrium or Paden City-New Martinsville respectively.
104. **Paramount – Reid 138 kV line sectionalized** - Restores the Paramount #1 138 kV Bus for a fault on the Paramount – Reid 138 kV line.
105. **Parkersburg #1 138/23 kV Transformers Sectionalized** – Restores the Parkersburg – Johns Manville JCT 138 kV line for a fault on the Parkersburg #1 138/23 kV transformers.
106. **Peters #2> 138/25 kV Transformers Sectionalized** – Restores the Peters – Crossgates and Peters – U.S.A.P. 138 kV lines for a fault on the Peters #2> 138/25 kV transformers.
107. **Peters-Crossgate-Cecil 138 kV Line Sectionalized** – Restore Peters-Crossgate or Crossgate-Cecil following a fault on the Crossgate-Cecil or Peters-Crossgate respectively.
108. **Peters-Crossgates 138 kV Line Sectionalized** – Restores the Cecil – Crossgates 138 kV lines for a fault on the Peters-Crossgates 138 kV line.
109. **Pickens #1 138/25 kV Transformer Sectionalized** – Restores the Pickens – Back

Fork, Pickens – French Creek, Pickens – Durbintp and Pickens – Monterville 138 kV lines for a fault on the Pickens #1 138/25 kV transformer.

110. **Pickens-Durbin-Beverly-Loughs Lane.158 138kV line** – Restore Pickens-Durbin-Beverly or Beverly-Loughs Lane following a fault on Beverly-Loughs Lane or Pickens-Durbin-Beverly respectively.
111. **Powell Mountain #1 138/23 kV Transformer Sectionalized** – Restores the Powell Mountain – Craigsville, Powell Mountain – Bays, Powell Mountain – Enon Tap and Powell Mountain – Ivydale 138 kV lines for a fault on the Powell Mountain #1 138/23 kV transformer.
112. **Pruntytown #1 500/138 kV Transformer Sectionalized** – Restores Pruntytown #2 500/138 kV transformer for a fault on the Pruntytown #1 500/138 kV transformer.
113. **Pruntytown #2 500/138 kV Transformer Sectionalized** – Restores Pruntytown #1 500/138 kV transformer for a fault on the Pruntytown #2 500/138 kV transformer.
114. **Pruntytown #3 500/138 kV Transformer Sectionalized** – Restores Pruntytown #4 500/138 kV transformer for a fault on the Pruntytown #3 500/138 kV transformer.
115. **Pruntytown #4 500/138 kV Transformer Sectionalized** – Restores Pruntytown #3 500/138 kV transformer for a fault on the Pruntytown #4 500/138 kV transformer.
116. **Reid #1 138/34.5 kV Transformer Sectionalized** – Restores the Reid – Antrim, Reid – Nipetown and Reid – Antietam 138 kV lines for a fault on the Reid #1 138/34.5 kV transformer.
117. **Reid #2 138/34.5 kV Transformer Sectionalized** – Restores the Reid – Ringgold and Reid – Paramount 138 kV lines for a fault on the Reid #2 138/34.5 kV transformer.
118. **Reid-Antrim-Guilford 138kV line** – Restore Reid-Antrim or Antrim-Guilford following a fault on Antrim-Guilford or Reid-Antrim respectively.
119. **Ridgeway #2 138/46 kV Transformer Sectionalized** – Restores the Ridgeway – Elko and Ridgeway – Clarion 138 kV lines for a fault on the Ridgeway #2 138/46 kV transformer.
120. **Ringgold #5 138/25 kV Transformer Sectionalized** – Restores the Ringgold – Catoctin, Ringgold – East Waynesboro, Ringgold – Reid 138 kV lines and Ringgold #3 230/138 kV transformer for a fault on the Ringgold #5 138/25 kV transformer.
121. **Ringgold #6 138/25 kV Transformer Sectionalized** – Restores the Ringgold – East Hagerstown 138 kV line and Ringgold #4 230/138 kV transformer for a fault on the Ringgold #6 138/25 kV transformer.
122. **Riverton #1 138/25 kV Transformer Sectionalized** – Restores the Riverton – Bethel and Riverton – Klines Mill 138 kV lines for a fault on the Riverton #1 138/25 kV transformer.
123. **Riverton #2 138/25 kV Transformers Sectionalized** – Restores the Riverton – Bethel and Riverton – Double Toll Gate 138 kV lines for a fault on the Riverton

#2 138/25 kV transformers.

124. **Seneca Caverns-Canaan Valley-William 138kV line** – Restore Seneca Caverns-Canaan Valley or Canaan Valley-William following a fault on Canaan Valley-William or Seneca Caverns-Canaan Valley respectively.
125. **Shingletown #82 230/46 kV Transformer Sectionalized** – Restores the Shingletown – Lewistown and Shingletown – Dale Summit 230 kV lines for a fault on the Shingletown #82 230/46 kV transformer.
126. **Social Hall #2 138/25 kV Transformer Sectionalized** – Restores the Social Hall – Saltsburg, Social Hall – Vasco Tap and Social Hall – Blairsville 138 kV lines for a fault on the Social Hall #2 138/25 kV transformer.
127. **Springdale-Murrycrest-Sunoco Delmont-White Valley 138 kV line** – Restore Springdale-Murrycrest or Murrycrest-Sunoco Delmont-White Valley following a fault on Murrycrest-Sunoco Delmont-White Valley or Springdale-Murrycrest respectively.
128. **Summit #1 115/46 kV Transformer Sectionalized** – Restores the Summit – Claysburg and Summit – Cambria 115 kV lines for a fault on the Summit #1 115/46 kV transformer.
129. **Summit #2 115/46 kV Transformer Sectionalized** – Restores the Summit – Thirty-First Street 115 kV lines for a fault on the Summit #2 115/46 kV transformer.
130. **Washington #2> 138/25 kV Transformers Sectionalized** – Restores the Washington – Franklin and Washington – Vanceville 138 kV lines for a fault on the Washington #2> 138/25 kV transformers.
131. **Weirton-Hamilton-Parkview-Buffalo Jct-Cecil-Windsor 138kV line** – Restore Weirton-Hamilton-Parkview or Parkview-Buffalo Jct-Cecil-Windsor following a fault on Parkview-Buffalo Jct-Cecil-Windsor or Weirton-Hamilton-Parkview respectively.
132. **Whiteley-Blacksville-Miracle Run-Fairview 138 kV line** – Restore Whiteley-Blacksville-Miracle or Miracle-Fairview following a fault on Miracle-Fairview or Whiteley-Blacksville-Miracle respectively.
133. **W. Waynesboro-E. Waynesboro-Ringgold 138kV line** – Restore W. Waynesboro-E. Waynesboro or E. Waynesboro-Ringgold following a fault on E. Waynesboro-Ringgold or W. Waynesboro-E. Waynesboro respectively.
134. **Wylie Ridge #1 345/138 kV Transformer Sectionalized** – Restores Wylie Ridge #2 345/138 kV transformer for a fault on the Wylie Ridge #1 345/138 kV transformer.
135. **Wylie Ridge #2 345/138 kV Transformer Sectionalized** – Restores Wylie Ridge #1 345/138 kV transformer for a fault on the Wylie Ridge #2 345/138 kV transformer.

FirstEnergy West (FE-W)

1. **Allen Junction-Silica Tap-Reynolds-University of Toledo-Vulcan 138 kV** – Restore Allen Junction-Silica Tap-Reynolds or Vulcan-University of Toledo-Reynolds following a fault on Vulcan-University of Toledo-Reynolds or Allen Junction-Silica Tap-Reynolds respectively.

2. **Bayshore-Oregon-Maclean 138 kV** – Restore Bayshore-Oregon or Maclean-Oregon following a fault on Maclean-Oregon or Bayshore-Oregon respectively.
3. **Brunswick-Stoney-Granger-West Akron 138 kV** – Restore Brunswick-Stoney or West Akron-Granger-Stoney following a fault on West Akron-Granger-Stoney or Brunswick-Stoney respectively.
4. **Longview – Cairns - Ontario 138 kV line sectionalized** – Restores Longview-Cairns or Ontario-Cairns following a fault on the Ontario-Cairns or Longview-Cairns respectively.
5. **Lyons #1 138/23 kV Transformer Sectionalized** – Restores the Lyons – Fayette and Lyons – Allen Junction 138 kV lines for a fault on the Lyons #1 138/23 kV transformer.
6. **Niles Central Muni-Garden-Elm-Packard 138 kV** – Restore Niles Central Muni-Garden or Packard-Elm-Garden following a fault on Packard-Elm-Garden or Niles Central Muni-Garden respectively.
7. **Riverbend #1 138/23 kV Transformer Sectionalized** – Restores the Riverbend – Wickliffe and Riverbend –Salt Springs 138 kV lines for a fault on the Riverbend #1 138/23 kV transformer.

Pennsylvania Power & Light Company (PPL)

1. **Frackville #1 230/69 kV Transformer** – Restores the 230 kV bus at Frackville following a fault on the transformer #1.
2. **Frackville #2 230/69 kV Transformer** – Restores the 230 kV bus at Frackville following a fault on the transformer #2.
3. **Frackville #3 230/69 kV Transformer** – Restores the 230 kV bus at Frackville following a fault on the transformer #3.
4. **Jenkins #1 230/69 kV Transformer** – Restores the 230 kV High Side CBs, which will restore the Jenkins 230kV West bus, following a fault on the transformer.
5. **Jenkins #4 230/69 kV Transformer** – Restores the 230 kV High Side CBs, which will restore the Jenkins 230kV East bus, following a fault on the transformer.
6. **Juniata #3 230/69 kV Transformer Sectionalized** – Restores the Juniata – Cumberland 230 kV line and Juniata #1 500/230 kV transformer for a fault on the Juniata #3 230/69 kV transformer.
7. **Juniata #4 230/69 kV Transformer Sectionalized** – Restores the Juniata – Dauphin and Juniata – Lewistown 230 kV lines and Juniata #2 500/230 kV transformer for a fault on the Juniata #4 230/69 kV transformer.
8. **Lackawanna #1 230/69 kV Transformer** – Restores the 230 kV High Side CBs following a fault on the transformer.
9. **Lackawanna #2 230/69 kV Transformer** – Restores the 230 kV High Side CBs following a fault on the transformer.
10. **South Akron #5 230/69 kV Transformer** – Restores the 230 kV High Side CBs, restoring the South Akron #6 230/69 kV transformer, following a fault

on the #5 transformer.

11. **South Akron #6 230/138 kV Transformer** – Restores the 230 kV High Side CBs, restoring the South Akron #5 230/69 kV transformer, following a fault on the #6 transformer.
12. **South Akron #7 230/138 kV Transformer** – Restores the 230 kV High Side CBs following a fault on the transformer.
13. **Steel City 500/230 kV TR1 Transformer** – Restores the 500 kV High Side CBs following a fault on the transformer.

UGI Utilities, Inc. (UGI)

1. **Mountain #1 230/66 kV Transformer** – Restores the 230 kV High Side CBs, which will restore the Mountain-Susquehanna T10 230 kV line, following a fault on the transformer.
2. **Mountain #2 230/66 kV Transformer** – Restores the 230 kV High Side CBs, which will restore the Mountain-Stanton 230 kV line, following a fault on the transformer.