

Attachment E: Automatic Sectionalizing Schemes

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. **Benton Harbor 345/138 kV T-1 Sectionalized** - Restores Benton Harbor 345 kV bus #1 following a fault on the Benton Harbor 345/138 kV T-1 transformer.
3. **Cook-Kenzie Creek 345 kV Sectionalized** – Restores Kenzie Creek-Twin Branch 345 kV line and Kenzie Creek 345/138 kV transformer following a fault on the Cook-Kenzie Creek 345 kV line.
4. **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.
5. **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.
6. **East Danville 230/138 kV T5 Sectionalized** – Restores 138 kV circuit breakers ‘P’, ‘L’, ‘BB’, and ‘J’ and 69 kV circuit breakers ‘H’, ‘F’, and ‘AA’ and 12 kV circuit breaker ‘A’ at East Danville following a fault on the East Danville 230/138 kV T5 transformer.
7. **Greentown 765/138 kV T-1 Sectionalized** – Restores Greentown 765 kV Ring Bus following a fault on the Greentown 765/138 kV T-1 transformer.
8. **Greentown 765/138 kV T-2 Sectionalized** – Restores Greentown 765 kV Ring Bus following a fault on the Greentown 765/138 kV T-2 transformer.
9. **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.
10. **Kenzie Creek 345/138 kV T-1 Sectionalized** – Restores Cook-Kenzie Creek 345 kV and Kenzie Creek-Twin Branch 345 kV lines following a fault on the Kenzie Creek 345/138 kV T-1 transformer.
11. **Kenzie Creek-Twin Branch 345 kV Sectionalized** – Restores the Cook-Kenzie Creek 345 kV line and Kenzie Creek 345/138 kV transformer following a fault on the Kenzie Creek-Twin Branch 345 kV line.
12. **Kirk 345/138 T4 Sectionalized** – Restores Kirk-Jug Street 345 kV, Bixby- Kirk 345 kV, and Kirk-W. Millersport 345 kV following a fault on the Kirk 345/138 T4 transformer.
13. **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.
14. **New Carlisle #2 138/25 kV Transformer Sectionalized** – Restores the New Carlisle – Pineroad, New Carlisle – Pletcher and New Carlisle – Bosserman 138 kV lines for a fault on the New Carlisle #2 138/25 kV transformer.
15. **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.

16. **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.
17. **Sporn-Tri State 345 kV Sectionalized** – Restores Tri State 345/138 kV T-1 transformer following a fault on the Kyger-Tri State 345 kV line.
18. **Tri State 345/138 kV T-1 Sectionalized** – Restores Kyger Creek - Tri State 345 kV line following a fault on the Tri State 345/138 kV T-1 transformer.
19. **Tri State 345/138 kV T-2 Sectionalized** – Restores Baker - Tri State 345 kV line following a fault on the Tri State 345/138 kV T-2 transformer.
20. **Tri State 345/138 kV T-3 Sectionalized** – Restores Baker - Tri State 345 kV line following a fault on the Tri State 345/138 kV T-3 transformer.
21. **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.
22. **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.
23. **Wyoming 765/138 kV T-1 Sectionalized** – Restores 765 kV 'N' and 'P' circuit breakers (765 kV ring bus) at Wyoming following a fault on the Wyoming 765/138 kV T-1 transformer.
24. **Wyoming 765/138 kV T-2 Sectionalized** – Restores 765 kV 'P' and 'R' circuit breakers (765 kV ring bus) at Wyoming following a fault on the Wyoming 765/138 kV T-2 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.

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. **Bull Run-Ellick 295 Sectionalized** – Restores the Bull Run #3 transformer following a fault on and isolation of the 295 line.
10. **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.
11. **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.
12. **Carson #2 500/230 kV Transformer Sectionalized** – Restores the 500 kV Bus Breakers for a fault on the Carson #2 500/230 kV transformer.
13. **Carson-Clubhouse 238 Sectionalized**- Restores the Clubhouse 230 kV bus and transformer #1 following a fault on and isolation of the 238 line.
14. **Carson-Poe 2002 Sectionalized**- Restores the 230 kV bus and transformer #5 at Poe following a fault on and isolation of the 2002 line.
15. **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.
16. **Chickahominy #1 500/230 kV Transformer Sectionalized** – Restores 557 line (Elmont – Chickahominy) and 567 line (Chickahominy – Surry) following a fault on the Chickahominy #1 500/230 kV transformer.
17. **Chickahominy-Elmont 557 Sectionalized** – Restores the Surry-Chickahominy 567 Line and Chickahominy TX#1 following a fault on the Chickahominy-Elmont 557 line.
18. **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.
19. **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.
20. **Clubhouse #1 230/115 kV Transformer Sectionalized** – Restores Line 238 (Clubhouse – Carson) following a fault on the Clubhouse #1 230/115 kV transformer.
21. **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.
22. **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.
23. **Dooms #7 500/230 kV Transformer Sectionalized** – Restores the 500 kV Bus Breakers for a fault on the Dooms #7 500/230 kV transformer.
24. **Dooms #9 500/230 kV Transformer Sectionalized** – Restores the 500 kV Bus Breakers for a fault on the Dooms #9 500/230 kV transformer.

25. **Elmont #1 500/230 kV Transformer Sectionalized** – Restores the 500 kV Bus Breakers for a fault on the Elmont #1 500/230 kV transformer.
26. **Elmont #2 500/230 kV Transformer Sectionalized** – Restores the 500 kV Bus Breakers for a fault on the Elmont #2 500/230 kV transformer.
27. **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.
28. **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.
29. **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.
30. **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.
31. **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.
32. **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.
33. **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.
34. **Fredericksburg #7 230/115 kV Transformer Sectionalized** – Restores the 230 kV Bus Breakers for a fault on the Fredericksburg #7 230/115 kV transformer.
35. **Gainesville #3 230/115 kV Transformer Sectionalized** – Restores the 230 kV Bus Breakers for a fault on the Gainesville #3 230/115 kV transformer.
36. **Glebe-Crystal 275 Sectionalized** – Restores Glebe Bus #5 following a fault on Line 275.
37. **Glebe-Crystal 276 Sectionalized** – Restores Glebe Bus #6 following a fault on Line 276.
38. **Gordonsville #1 230/115 kV Transformer Sectionalized** – Restores the 230 kV Bus Breakers for a fault on the Gordonsville #1 230/115 kV transformer.
39. **Gordonsville #3 230/115 kV Transformer Sectionalized** – Restores the 230 kV Bus Breakers for a fault on the Gordonsville #3 230/115 kV transformer.
40. **Greenwich #1 230/115 kV Transformer Sectionalized** – Restores the 230 kV Bus Breakers for a fault on the Greenwich #1 230/115 kV transformer.
41. **Greenwich #2 230/115 kV Transformer Sectionalized** – Restores the 230 kV Bus Breakers for a fault on the Greenwich #2 230/115 kV transformer.
42. **Greenwich #3 230/35 kV Transformer Sectionalized** – Restores the 230 kV Bus Breakers for a fault on the Greenwich #3 230/35 kV transformer.
43. **Grottoes #4 230/115 kV Transformer Sectionalized** – Restores Line 272 (Dooms – Grottoes) following a fault on the Grottoes #4 230/115 kV transformer.
44. **Grottoes-Dooms 272 Sectionalized**- Restores the Grottoes 230 kV bus

and transformer #4 following a fault on and isolation of the 272 line.

45. **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.
46. **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.
47. **Harrisonburg TX#4 Sectionalized** – Restores the 230 kV Bus Breakers following a fault on the transformer.
48. **Harrisonburg TX#6 Sectionalized** – Restores the 230 kV Bus Breakers following a fault on the transformer.
49. **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.
50. **Hayfield #2 230/35kV Transformer Sectionalized** – Restores the 230 kV Bus Breakers for a fault on the Hayfield #1 230/35 kV transformer.
51. **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.
52. **Hopewell #2 230/35 kV Transformer Sectionalized** – Restores the 230 kV Bus Breakers for a fault on the Hopewell #2 230/35 kV transformer.
53. **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.
54. **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.
55. **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.
56. **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.
57. **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.
58. **Ladysmith #1 500/230 kV Transformer Sectionalized** – Restores the 500 kV Bus Breakers for a fault on the Ladysmith #1 500/230 kV transformer.
59. **Landstown #1 230/115 kV Transformer Sectionalized** – Restores the 230 kV Bus Breakers for a fault on the Landstown #1 230/115 kV transformer.
60. **Landstown #2 230/115 kV Transformer Sectionalized** – Restores the 230 kV Bus Breakers for a fault on the Landstown #2 230/115 kV transformer.

61. **Lanexa-Lightfoot 2113 Sectionalized** – Restores the Lanexa #2 transformer following a fault on and isolation of the Lanexa-Lightfoot 2113 line.
62. **Lexington #1 500/230 kV Transformer Sectionalized** – Restores the 500 kV Bus Breakers for a fault on the Lexington #1 500/230 kV transformer.
63. **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.
64. **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.
65. **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.
66. **Locks #6 230/115 kV Transformer Sectionalized** – Restores Line 205 (Locks - Chesterfield) following a fault on the Locks #6 230/115 kV transformer.
67. **Loudoun #1 500/230 kV Transformer Sectionalized** – Restores the 500 kV Bus Breakers for a fault on the Loudoun #1 500/230 kV transformer.
68. **Loudoun #2 500/230 kV Transformer Sectionalized** – Restores the 500 kV Bus Breakers for a fault on the Loudoun #2 500/230 kV transformer.
69. **Midlothian #6 500/230 kV Transformer Sectionalized** – Restores the 500 kV Bus Breakers for a fault on the Midlothian #6 500/230 kV transformer.
70. **Midlothian-Bremo 2027 Sectionalized** - Restores the Midlothian 230 kV Breakers and TX#1 following a fault and isolation of the 2027 line.
71. **Midlothian-Spruance 282 Sectionalized** - Restores the Midlothian 230 kV Breakers and TX#5 following a fault and isolation of the 282 line.
72. **Morrisville #1 500/230 kV Transformer Sectionalized** – Restores the 500 kV Bus Breakers for a fault on the Morrisville #1 500/230 kV transformer.
73. **Morrisville #2 500/230 kV Transformer Sectionalized** – Restores the 500 kV Bus Breakers for a fault on the Morrisville #2 500/230 kV transformer.
74. **North Anna TX#1 Sectionalized** – Restores 500 kV Bus #1 Breakers Wt576 and XT573 following a fault on the transformer.
75. **North Anna TX#2 Sectionalized** – Restores 500 kV all Bus #2 Breakers except G102-2 following a fault on the transformer.
76. **Northeast #9 230/115 kV Transformer Sectionalized** – Restores the 230 kV Bus Breakers for a fault on the Northeast #9 230/115 kV transformer.
77. **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.
78. **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.
79. **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.

80. **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.
81. **Ox #1 500/230 kV Transformer Sectionalized** – Restores the 500 kV Bus Breakers for a fault on the Ox #1 500/230 kV transformer.
82. **Ox #2 500/230 kV Transformer Sectionalized** – Restores the 500 kV Bus Breakers for a fault on the Ox #2 500/230 kV transformer.
83. **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.
84. **Peninsula #4 230/115 kV Transformer Sectionalized** – Restores Line 288 (Peninsula – Yorktown) following a fault on the Peninsula #4 230/115 kV transformer.
85. **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.
86. **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.
87. **Plaza #5 230/115 kV Transformer Sectionalized** – Restores Line 236 (Plaza - Southwest) following a fault on the Plaza #5 230/115 kV transformer.
88. **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.
89. **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.
90. **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.
91. **Remington #3 230/115 kV Transformer Sectionalized** – Restores Line 2077 (Remington – Remington CT) following a fault on the Remington #3 230/115 kV transformer.
92. **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.
93. **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.
94. **Spotsylvania #1 500/115 kV Transformer Sectionalized** – Restores the 500 kV Bus Breakers for a fault on the Spotsylvania #1 500/115 kV transformer.
95. **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.
96. **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.

97. **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.
98. **Surry RSS#1 Sectionalized** – Restores the 500 kV Bus Breakers following a fault on the transformer.
99. **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.
100. **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.
101. **Virginia Beach #1 115/35 kV & #3 115/13 kV Transformers Sectionalized** – Restores the Virginia Beach – Pendleton 115 kV line and Virginia Beach #5 230/115 kV transformer for a fault on the Virginia Beach #1 115/35 kV & #3 115/13 kV transformers.
102. **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.
103. **Wheaton #2 230/115 kV Transformer Sectionalized** – Restores the 230 kV High Side Breakers for a fault on the Wheaton #2 230/115 kV transformer.
104. **Whiteoak #1 230/13kV Transformer Sectionalized** – Restores the 230 kV Bus Breakers for a fault on the Whiteoak #1 230/13 kV transformer.
105. **Whiteoak #2 230/13kV Transformer Sectionalized** – Restores the 230 kV Bus Breakers for a fault on the Whiteoak #2 230/13 kV transformer.
106. **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.
107. **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.
108. **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.
109. **Yorktown #9 230/115 kV Transformer Sectionalized** – Restores the 230 kV Bus Breakers for a fault on the Yorktown #9 230/115 kV transformer.
110. **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. **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.
2. **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.
3. **Forest #1 230/115 kV Transformer Sectionalized** – Restores Squad Hollow – Forest 230 kV line and Glade – Forest 230 kV Line following a fault on the Forest #1 230/115 kV transformer.
4. **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.

FirstEnergy South (FE-S)

1. **Airco-Arroyo-WylieRidge.218 138kV line** – Restore Airco-Arroyo or Arroyo-WylieRidge following a fault on the Arroyo-WylieRidge 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-Snowycreek-Oakpark-Kelso Gap 138 kV line**– Restore Albright-Snowycreek-Oakpark or Oakpark-Kelso Gap following a fault on Oakpark-Kelso Gap or Albright-Snowycreek-Oakpark respectively.
4. **Allenport #1 138/25 kV Transformers Sectionalized** – Restores the Allenport – Charlero and Allenport – Frazier 138 kV lines for a fault on the Allenport #1 138/25 kV transformers.
5. **Arroyo-WylieRidge.212 138kV line** – Restore Arroyo-Quaker State and Arroyo bus load following a fault on the Arroyo-ArroyoJct-WylieRidge-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. **BarnettsRun-BridgeportHill-GlenFalls 138kV line** – Restore BarnettsRun-BridgeportHill or BridgeportHill-GlenFalls following a fault on BridgeportHill-GlenFalls or BarnettsRun-BridgeportHill 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-NrthUnion-SouthUnion-Gans-LakeLynn 138kV line** – Restore Bethelboro-NrthUnion-SouthUnion or SouthUnion-Gans-LakeLynn following a fault on SouthUnion-Gans-LakeLynn or Bethelboro-NrthUnion-SouthUnion respectively.
18. **BlackOak-ShortGap-Cumberland 138kV line** – Restore BlackOak-ShortGap or ShortGap-Cumberland following a fault on ShortGap-Cumberland or BlackOak-ShortGap respectively.
19. **Brookhaven-Smorgantwn-Pricehill 138kV line** – Restore Brookhaven-Smorgantwn or Smorgantwn-Pricehill following a fault on Smorgantwn-Pricehill or Brookhaven-Smorgantwn 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-KiskiVal 138kV line** – Restore Cabot-Woodland-N.Point or N.Point-KiskiVal following a fault on N.Point-KiskiVal 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-Germantow following a fault on Taneytown-Germantow or Carroll-Taneytown respectively.
33. **Catoctin-Walkersville-Monocacy 138kV line** – Restore Catoctin-Walkersville or

- Walkersville-Monocacy following a fault on Walkersville-Monocacy or Catoclin-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. **Charlero-WestRaver-Yukon 138kV line** – Restore Charlero-WestRaver or WestRaver-Yukon following a fault on WestRaver-Yukon or Charlero-WestRaver respectively.
 40. **CheatLake-RuthBelle-Albright 138kV line** – Restore Albright-Ruthbelle or Ruthbelle - Cheatlake following a fault on Ruthbelle - Cheatlake 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 – Craigs ville and Crupperneck – Nettie 138 kV lines for a fault on the Crupperneck #1 138/23 kV transformer.
 43. **Crupperneck-Craigs ville-PowellMountain 138kV line** – Restore Crupperneck-Craigs ville or Craigs ville-PowellMountain following a fault on Craigs ville-PowellMountain or Crupperneck-Craigs ville respectively.
 44. **DoubleTollGate #3 138/25 kV Transformer Sectionalized** – Restores the DoubleTollGate – Meadow Brook, DoubleTollGate – Old Chapel and DoubleTollGate – Riverton 138 kV lines for a fault on the DoubleTollGate #3 138/25 kV transformer.
 45. **DoubleTollGate #4 138/25 kV Transformer Sectionalized** – Restores the DoubleTollGate – Greenwood and DoubleTollGate – Meadow Brook 138 kV lines for a fault on the DoubleTollGate #4 138/25 kV transformer.
 46. **DoubleTollGate-OldChapel-Millville 138kV line** – Restore DoubleTollGate-OldChapel or OldChapel-Millville following a fault on OldChapel-Millville or DoubleTollGate-OldChapel 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-GrantTown-Riversville.42 138kV line** – Restore Fairview-GrantTown or GrantTown-Riversville following a fault on GrantTown-Rivesville or Fairview-GrantTown respectively.
59. **Fawn #1 138/25 kV Transformer Sectionalized** – Restores the Fawn – Lawson JCT and Fawn – Silverville 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. **FrenchCreek #1 138/25 kV Transformer Sectionalized** – Restores the FrenchCreek – Buckhannon and FrenchCreek – Heaters 138 kV lines for a fault on the Fawn #1 138/25 kV transformer.
62. **GateHill-BrownsVille JCT-Charli 138kV line** – Restore GateHill-BrownsVille JCT or BrownsVille JCT-Charli following a fault on BrownsVille JCT-Charli or GateHill-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-PowellMountain-SummersVille-GrassyFalls 138kV line** – Restore Gilboa-PowellMountain-SummersVille or SummersVille-GrassyFalls following a fault on SummersVille-GrassyFalls or Gilboa-PowellMountain-SummersVille respectively.
65. **Goffrun #1 138/34.5 kV Transformers Sectionalized** – Restores the Goff Run – Edgelawn and Goff Run – Grantsville 138 kV lines for a fault on the Goffrun #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-Lagond-Windsor 138kV line** – Restore Gordon-Lagond or Lagond-Windsor following a fault on Lagond-Windsor or Gordon-Lagond respectively.
68. **Grandpoint #1 138/69 kV Transformer Sectionalized** – Restores the Grandpoint – Letterkenney, Grandpoint – Guilford, Grandpoint – Fayetteville 138 kV lines and Grandpoint #1 138/69 kV transformer for a fault on the Grandpoint #1 138/69 kV transformer.
69. **GrandPoint-Fayetteville-WWaynesB 138kV line** – Restore GrandPoint-Fayetteville or Fayetteville-WWaynesB following a fault on Fayetteville-WWaynesB or GrandPoint-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. **HarCty-Penn-Luxor-Ngreens-HmpFld 138kV line** – Restore HarCty-Penn-Luxor-Ngreens or Ngreens-HmpFld following a fault on Ngreens-HmpFld or HarCty-Penn-Luxor-Ngreens respectively.
73. **HempFld-Sewickly-Waltzml-Yukon 138kV line** – Restore HempFld-Sewickly or Sewickly-Waltzml-Yukon following a fault on Sewickly-Waltzml-Yukon or HempFld-Sewickly respectively.
74. **Huntingdon-Robbins-Yukon 138kV line** – Restore Huntingdon-Robbins or Robbins-Yukon following a fault on Robbins-Yukon or Huntingdon-Robbins respectively.
75. **IronBridge #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 IronBridge #2> 138/25 kV transformers.
76. **KarnsCity #1 138/25 kV Transformers Sectionalized** – Restores the Karns City – Kissinger JCT and Karns City – Butler 138 kV lines for a fault on the KarnsCity #1 138/25 kV transformers.
77. **KiskiValley #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 KiskiValley #1 138/25 kV transformer.
78. **KiskiValley #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 KiskiValley

#1 138/25 kV transformer.

79. **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.
80. **Lakelynn-CheatLake 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
81. **LakeLynn-Westrun-CollinsFerry 138kV line** – Restore LakeLynn-Westrun or Westrun-CollinsFerry following a fault on Westrun-CollinsFerry or LakeLynn-Westrun respectively.
82. **Lardin-ClarksvllJct-Luzrn-Maldn-Californ-Charlero 138kV line** – Restore Lardin-ClarksvllJct-Luzrn-Maldn-Californ or Californ-Charlero following a fault on Californ-Charlero or Lardin-ClarksvllJct-Luzrn-Maldn-Californ respectively.
83. **Limeklin #3 230/34.5 kV Transformer Sectionalized** – Restores the Limeklin – Mccain and Limeklin – Doubs 230 kV lines for a fault on the Limeklin #3 230/34.5 kV transformer.
84. **Limeklin #4 230/34.5 kV Transformer Sectionalized** – Restores the Limeklin – Montgomery and Limeklin – Doubs 230 kV lines for a fault on the Limeklin #4 230/34.5 kV transformer.
85. **LongReach #Unioncar 138/25 kV Transformer Sectionalized** – Restores the Long Reach – Paden City and Long Reach – Bens Run 138 kV lines for a fault on the LongReach #Unioncar 138/25 kV transformer.
86. **LoughsLane #1 138/66 kV Transformers Sectionalized** – Restores the Loughs Lane – Leadsville and Loughs Lane – Beverly 138 kV lines for a fault on the LoughsLane #1 138/66 kV transformers.
87. **LoughsLane #3 138/66 kV Transformer Sectionalized** – Restores the Loughs Lane – Parsons and Loughs Lane – Roar Creek 138 kV lines for a fault on the LoughsLane #3 138/66 kV transformer.
88. **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.
89. **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.
90. **Luxor #1= 138/25 kV Transformers Sectionalized** – Restores the Luxor – Loyalhanna, Luxor – Stony Springs JCT and Luxor – Eastgate 138 kV lines for a fault on the Luxor #1= 138/25 kV transformers.
91. **Luxor-EastGate-Sony-kingFarm 138kV line** – Restore Luxor-EastGate-Sony or Sony-kingFarm following a fault on Sony-kingFarm or Luxor-EastGate-Sony respectively.
92. **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.

93. **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.
94. **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.
95. **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.
96. **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.
97. **MeadowBrk-WWinchester-Redbud 138kV line** – Restore MeadowBrk-WWinchester or WWinchester-Redbud following a fault on WWinchester-Redbud or MeadowBrk-WWinchester respectively.
98. **Millville-FeagansMille-Stonewall 138kV line** – Restore Millville-FeagansMille or FeagansMille-Stonewall following a fault on FeagansMille-Stonewall or Millville-FeagansMille respectively.
99. **Monocacy #4 230/138 kV Transformer Sectionalized** – Restores the Monocacy 230 kV “B” bus for a fault on the Monocacy #4 230/138kV transformer.
100. **Monocacy-Oldfarm-Ringgold 230kV line** – Restore Monocacy-Oldfarm or Oldfarm-Ringgold following a fault on Oldfarm-Ringgold or Monocacy-Oldfarm respectively.
101. **PadenCity-NewMartinsville-Natrium.68 138kV line**– Restore PadenCity-NewMartinsville or NewMartinsville-Natrium following a fault on NewMartinsville-Natrium or PadenCity-NewMartinsville respectively.
102. **Page #3 138/25 kV Transformer Sectionalized** – Restores the Page – Sperryville and Page – Bethel 138 kV lines for a fault on the Page #3 138/25 kV transformer.
103. **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.
104. **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.
105. **Peters-Crossgate-Cecil 138 kV Line Sectionalized** – Restore Peters-Crossgate or Crossgate-Cecil following a fault on the Crossgate-Cecil or Peters-Crossgate respectively.
106. **Peters-Crossgates 138 kV Line Sectionalized** – Restores the Cecil – Crossgates 138 kV lines for a fault on the Peters-Crossgates 138 kV line. *Effective February, 2019.
107. **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.

108. **Pickens-Durbin-Beverly-LoughsLane.158 138kV line** – Restore Pickens-Durbin-Beverly or Beverly-LoughsLane following a fault on Beverly-LoughsLane or Pickens-Durbin-Beverly respectively.
109. **PowellMountain #1 138/23 kV Transformer Sectionalized** – Restores the Powell Mountain – Graigsville, Powell Mountain – Bays, Powell Mountain – Econ Tap and Powell Mountain – Ivydale 138 kV lines for a fault on the PowellMountain #1 138/23 kV transformer.
110. **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.
111. **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.
112. **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.
113. **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.
114. **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.
115. **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.
116. **Reid-Antrim-Guilford 138kV line** – Restore Reid-Antrim or Antrim-Guilford following a fault on Antrim-Guilford or Reid-Antrim respectively.
117. **RidgewayAPS #2 138/46 kV Transformer Sectionalized** – Restores the Ridgeway APS – Elko and Ridgeway – Clarion 138 kV lines for a fault on the RidgewayAPS #2 138/46 kV transformer.
118. **Ringgold #5 138/25 kV Transformer Sectionalized** – Restores the Ringgold – Catocin, 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.
119. **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.
120. **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.
121. **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.
122. **SenecaCaverns-Canval-William 138kV line** – Restore SenecaCaverns-Canval

or Canval-William following a fault on Canval-William or SenecaCaverns-Canval respectively.

123. **Shingletown #82 230/46 kV Transformer Sectionalized** – Restores the Shingletown – Lewistown and Shingletown – Dalesummit 230 kV lines for a fault on the Shingletown #82 230/46 kV transformer.
124. **SocialHall #2 138/25 kV Transformer Sectionalized** – Restores the SocialHall – Saltsburg, SocialHall – Vasco Tap and SocialHall – Blairsville 138 kV lines for a fault on the SocialHall #2 138/25 kV transformer.
125. **Springdale-Murrycrest-SunocoDelmnt-WhiteValley 138 kV line** – Restore Springdale-Murrycrest or Murrycrest-SunocoDelmnt-WhiteValley following a fault on Murrycrest-SunocoDelmnt-WhiteValley or Springdale-Murrycrest respectively.
126. **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.
127. **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.
128. **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.
129. **Weirton-HamiltN-Parkview-BufferJct-Cecil-Windsor 138kV line** – Restore Weirton-HamiltN-Parkview or Parkview-BufferJct-Cecil-Windsor following a fault on Parkview-BufferJct-Cecil-Windsor or Weirton-HamiltN-Parkview respectively.
130. **Whitly-BlacksVille-Miracle-FairView 138 kV line** – Restore Whitly-BlacksVille-Miracle or Miracle-FairView following a fault on Miracle-FairView or Whitly-BlacksVille-Miracle respectively.
131. **WWaynesB-EWaynesB-Ringgold 138kV line** – Restore WWaynesB-EWaynesB or EWaynesB-Ringgold following a fault on EWaynesB-Ringgold or WWaynesB-EWaynesB respectively.
132. **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.
133. **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. **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.
5. **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.
6. **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.
14. **Susquehanna 500/230 kV T21 Transformer** – Restores the 500 kV High Side CBs following a fault on the transformer.
15. **West Hempfield #3 230/138 kV Transformer** – Restores the 230 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.