New York ISO
Independent System Operator

# NY-PJM STABILITY LIMIT ANALYSIS FOR ALL LINES IN-SERVICE (NP-22) APPENDICES

A Report by the
New York Independent System Operator

**October 2022**

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# Appendix A: New York – PJM 4,000 MW Transfer

### ANGLE AND VOLTAGE RESPONSES

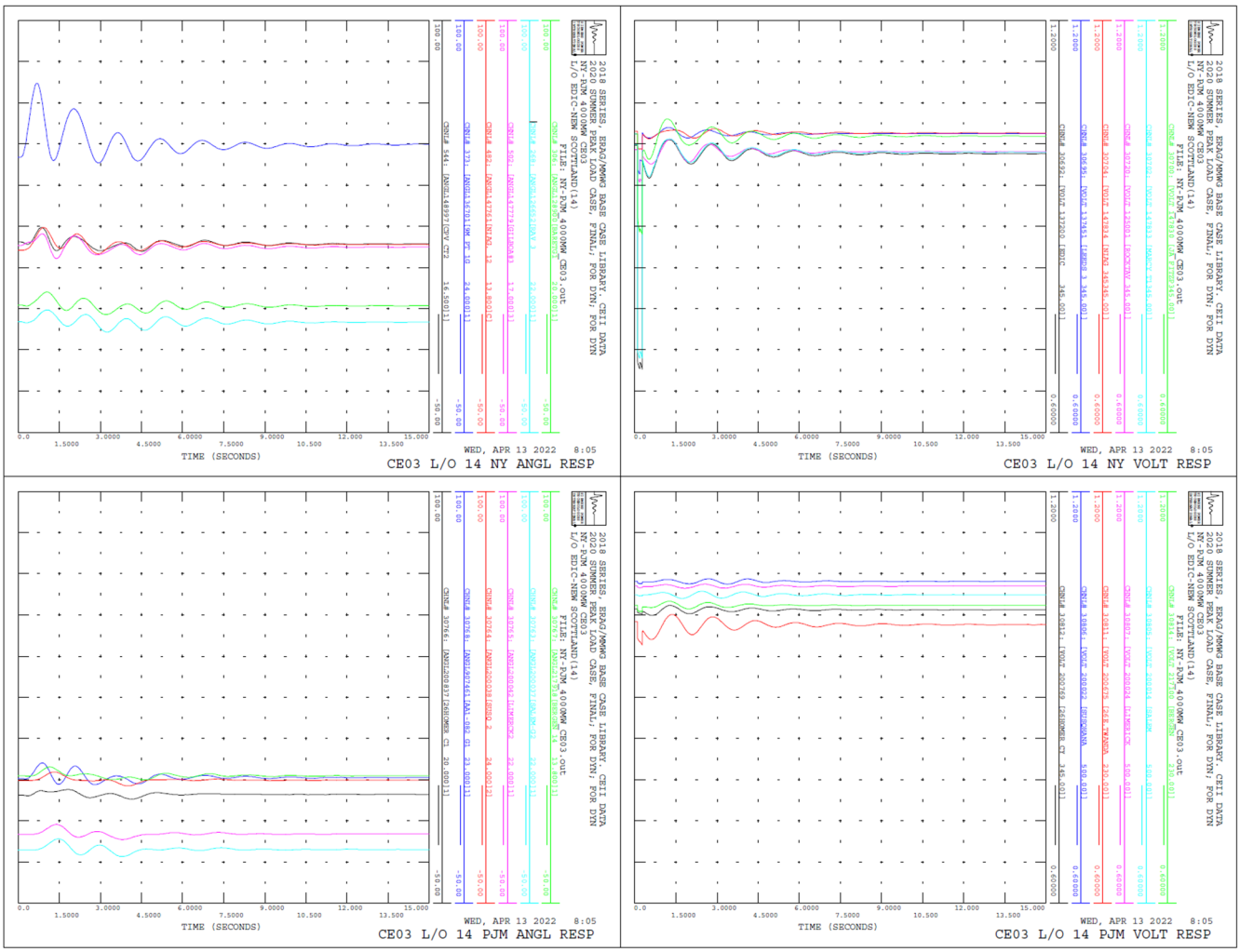


**Figure 1: NY-PJM 4000 MW Contingency CE03 Angle/Voltage Response Plots**

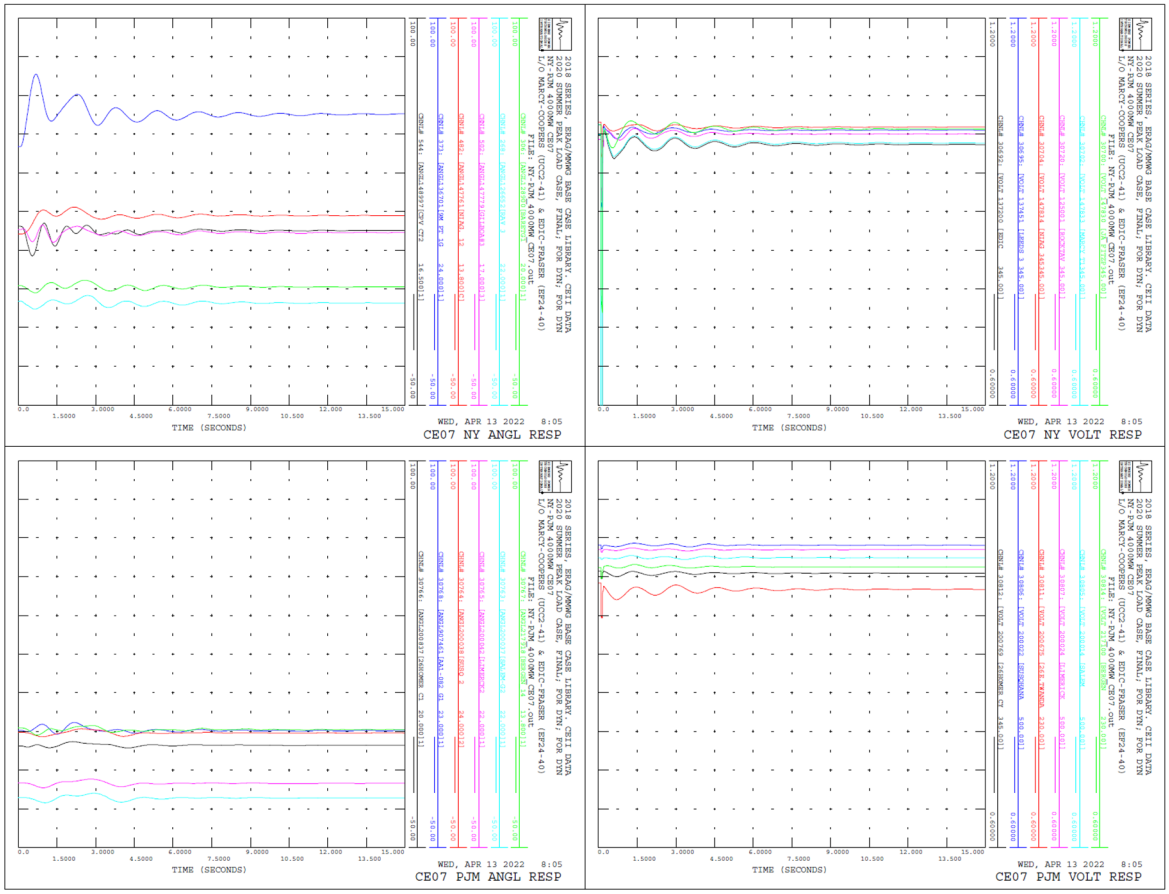


**Figure 2: NY-PJM 4000 MW Contingency CE07 Angle/Voltage Response Plots**

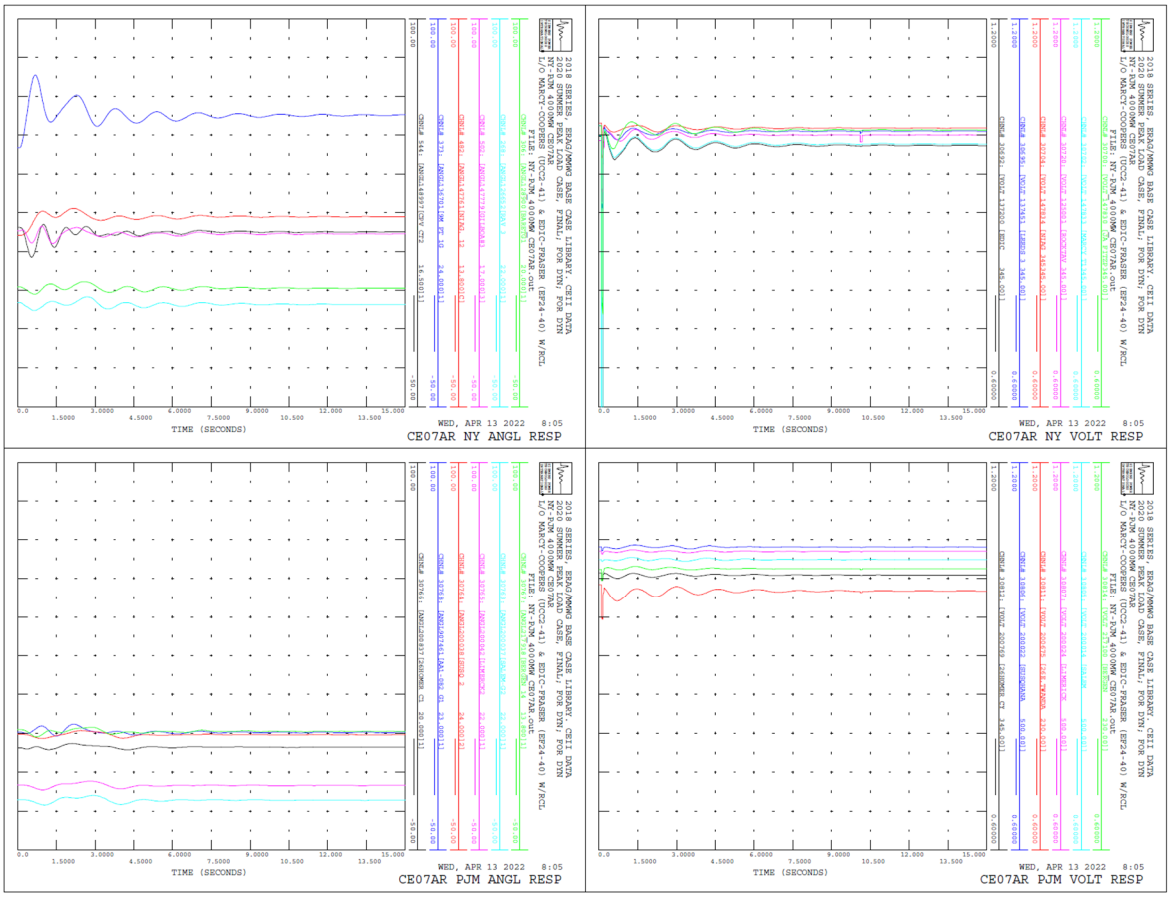


**Figure 3: NY-PJM 4000 MW Contingency CE07AR Angle/Voltage Response Plots**

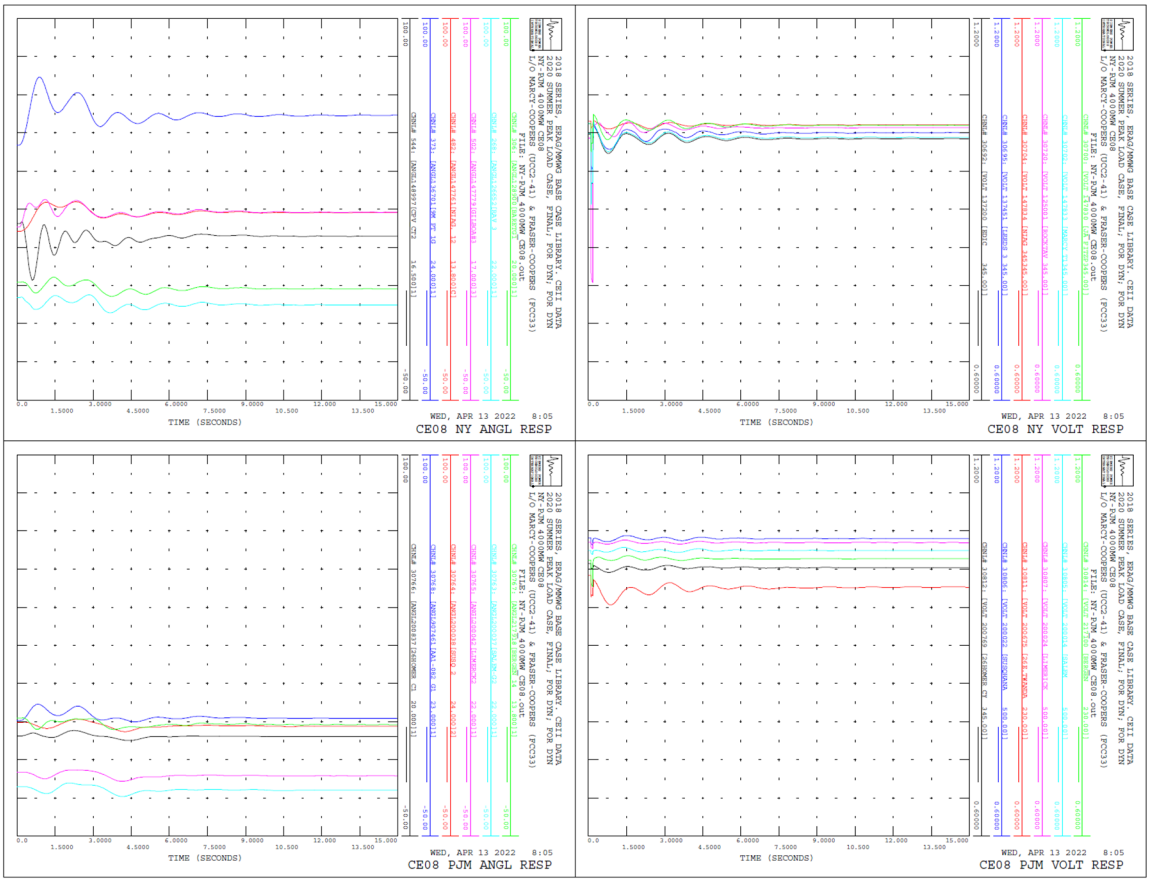


**Figure 4: NY-PJM 4000 MW Contingency CE08 Angle/Voltage Response Plots**

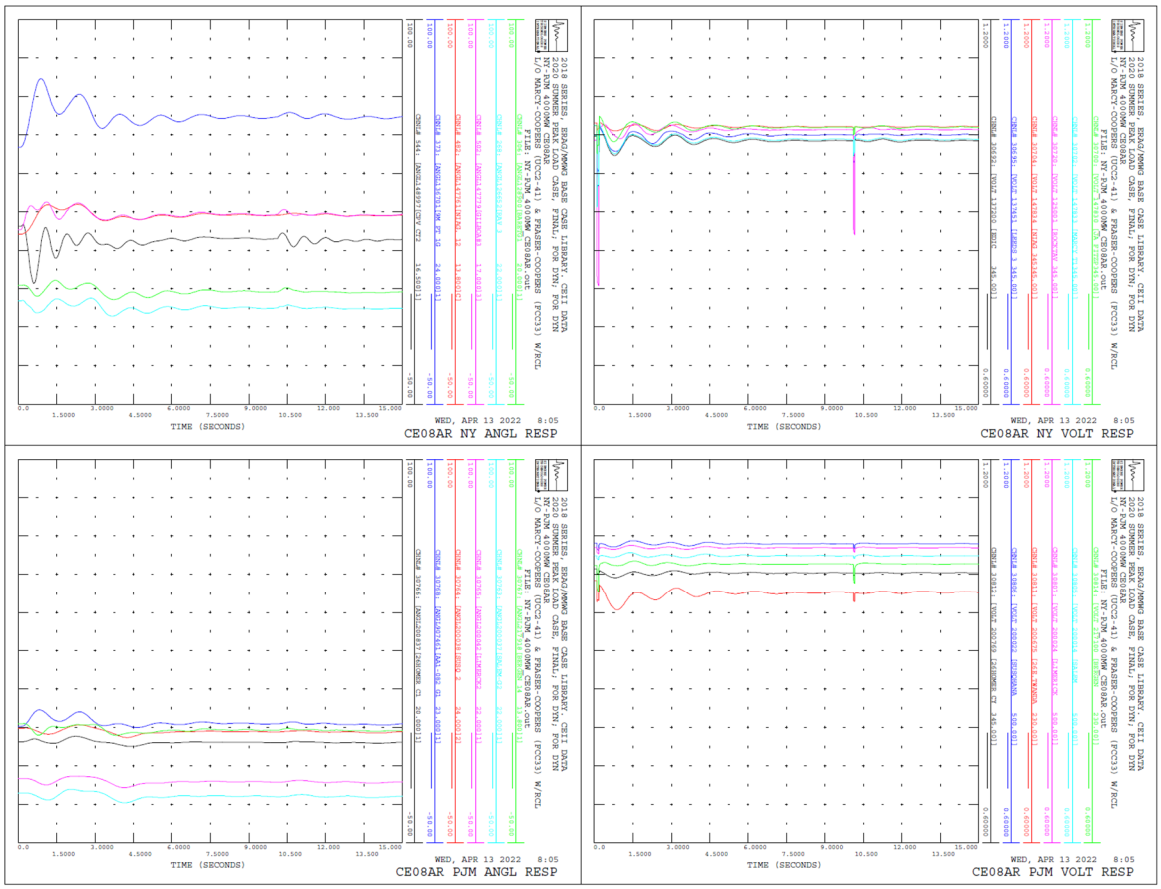


**Figure 5: NY-PJM 4000 MW Contingency CE08AR Angle/Voltage Response Plots**

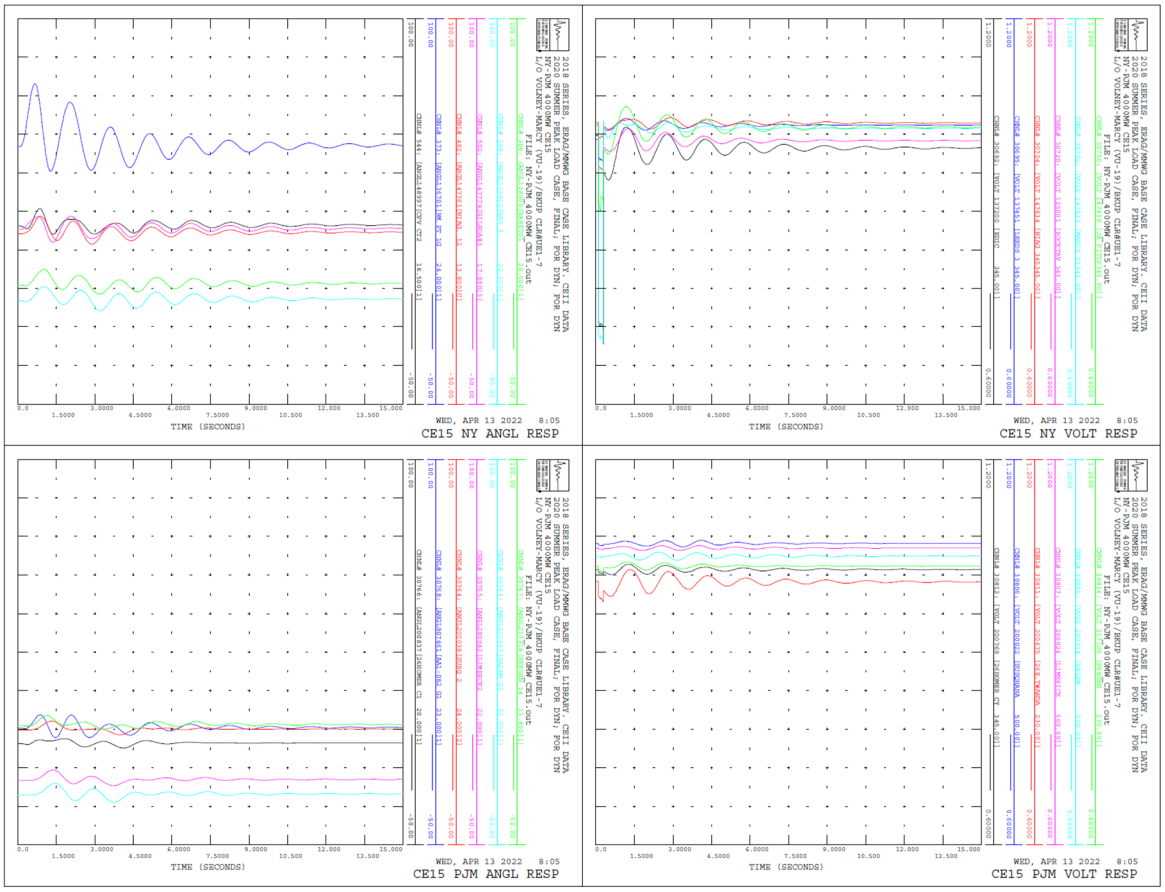


**Figure 6: NY-PJM 4000 MW Contingency CE15 Angle/Voltage Response Plots**

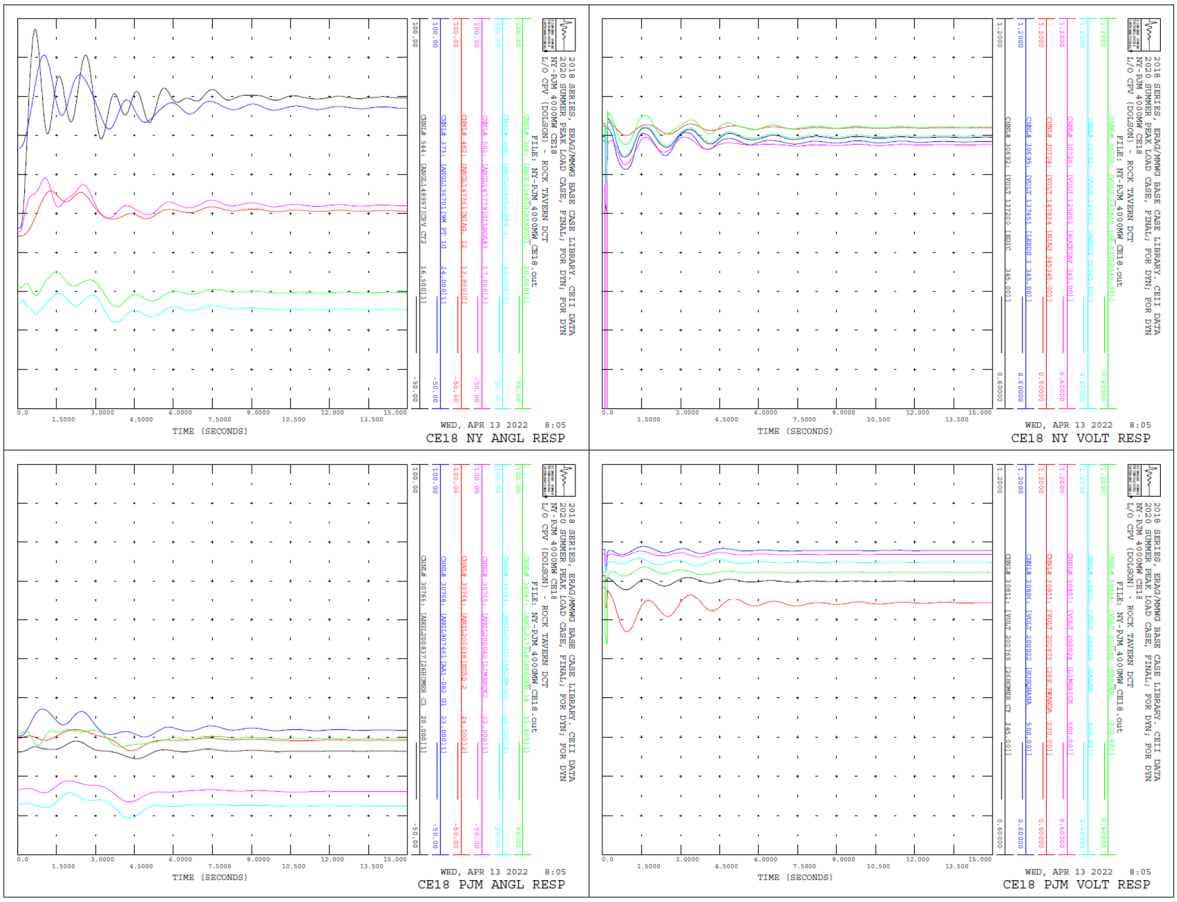


**Figure 7: NY-PJM 4000 MW Contingency CE18 Angle/Voltage Response Plots**

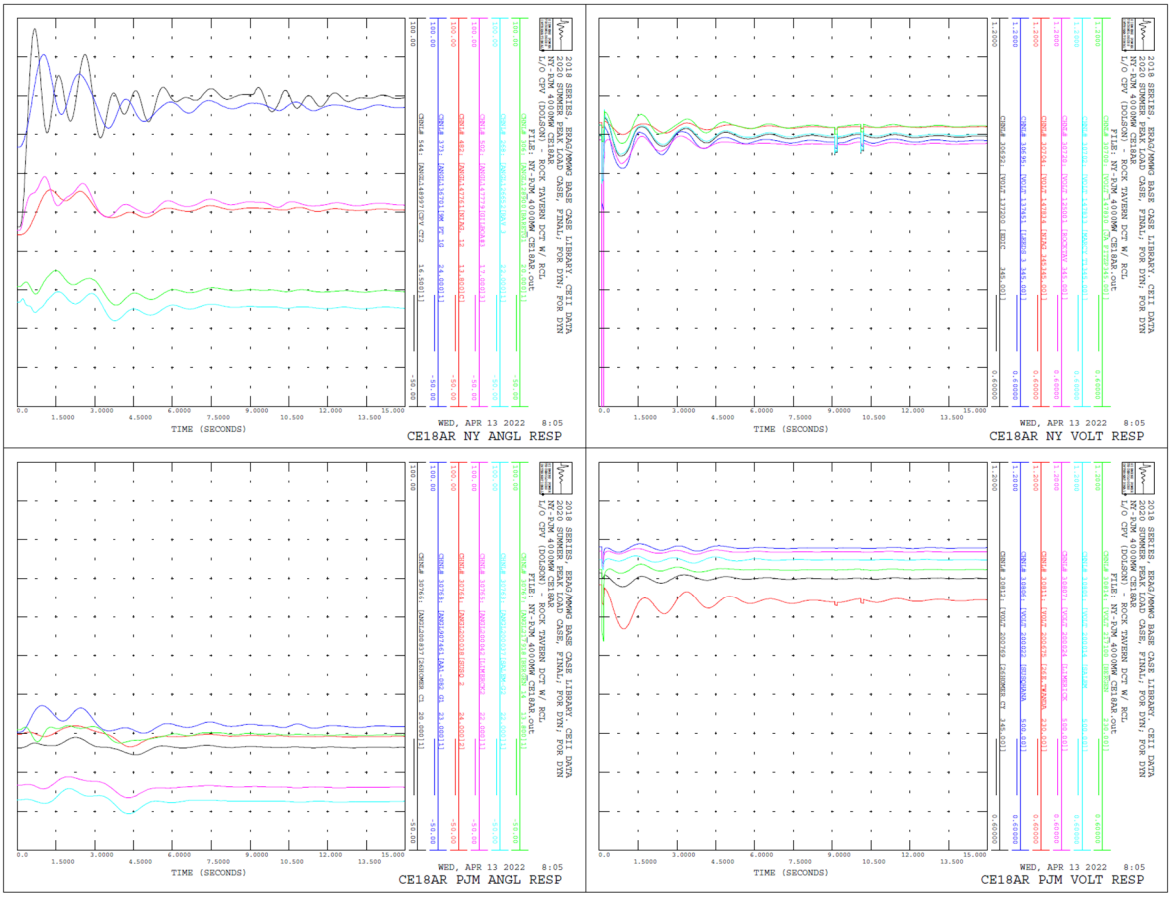


**Figure 8: NY-PJM 4000 MW Contingency CE18AR Angle/Voltage Response Plots**

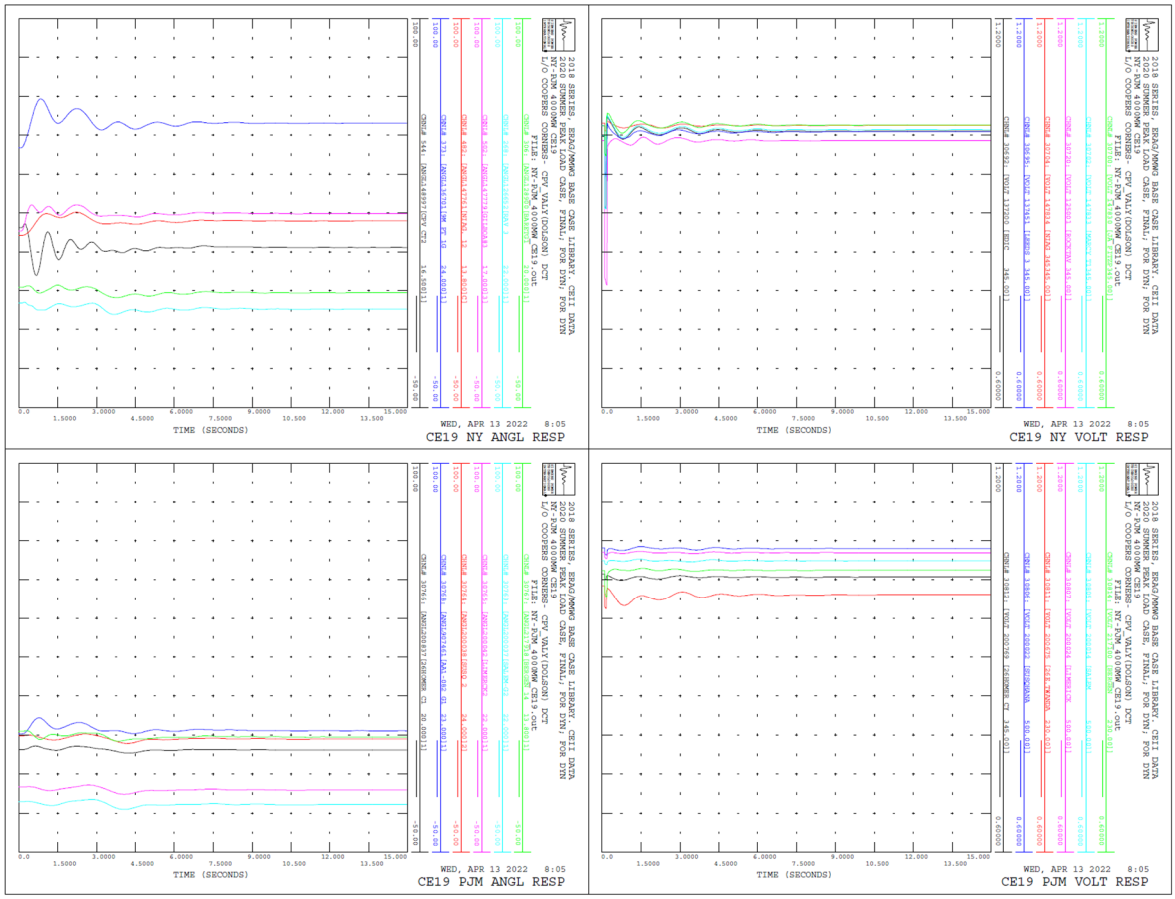


**Figure 9: NY-PJM 4000 MW Contingency CE19 Angle/Voltage Response Plots**

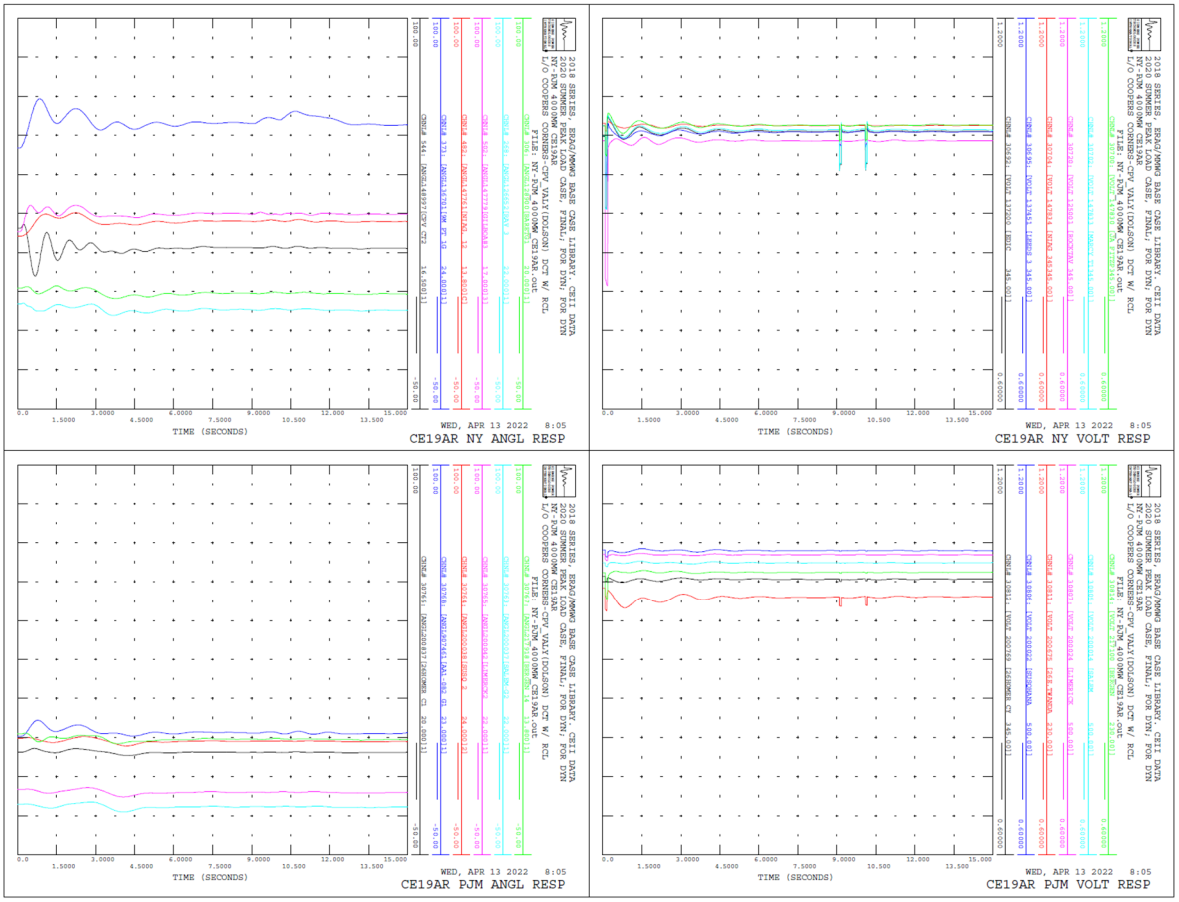


**Figure 10: NY-PJM 4000 MW Contingency CE19AR Angle/Voltage Response Plots**

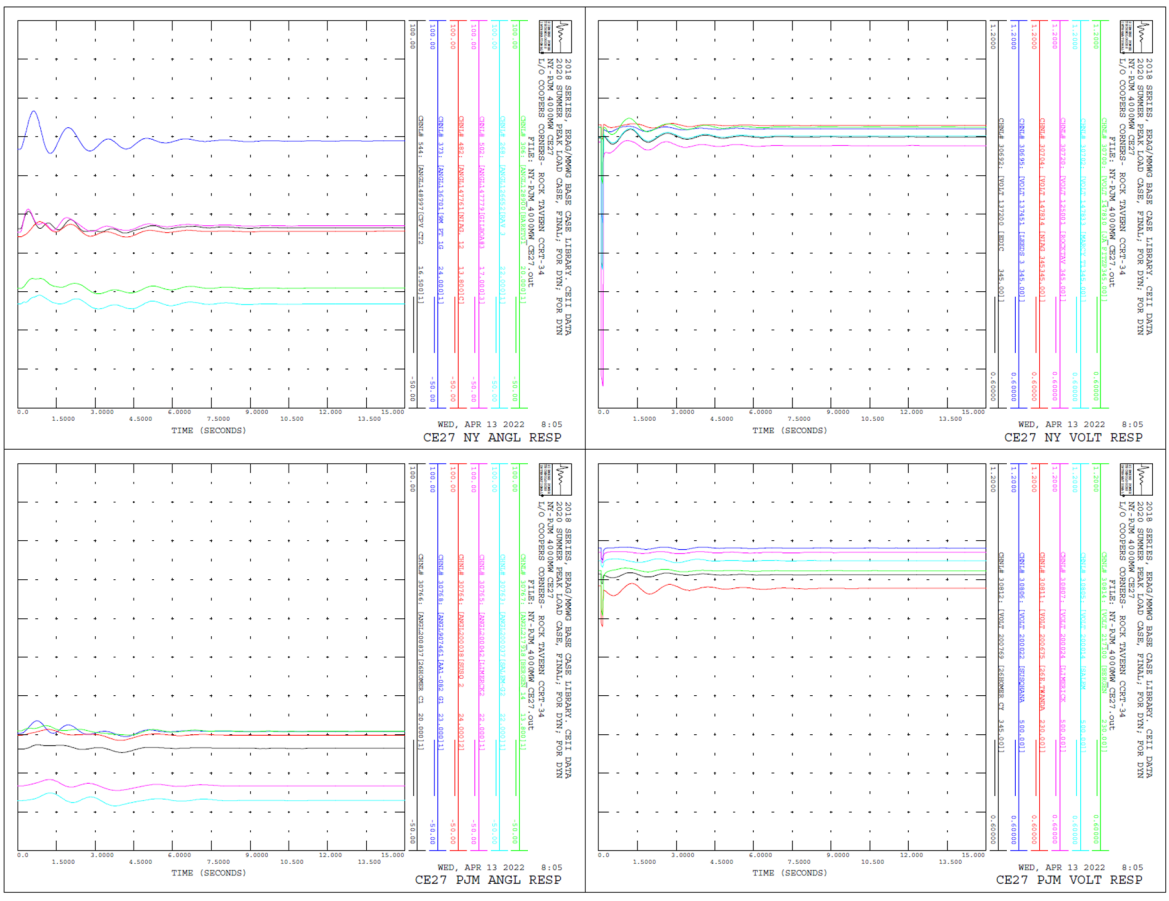


**Figure 11: NY-PJM 4000 MW Contingency CE27 Angle/Voltage Response Plots**

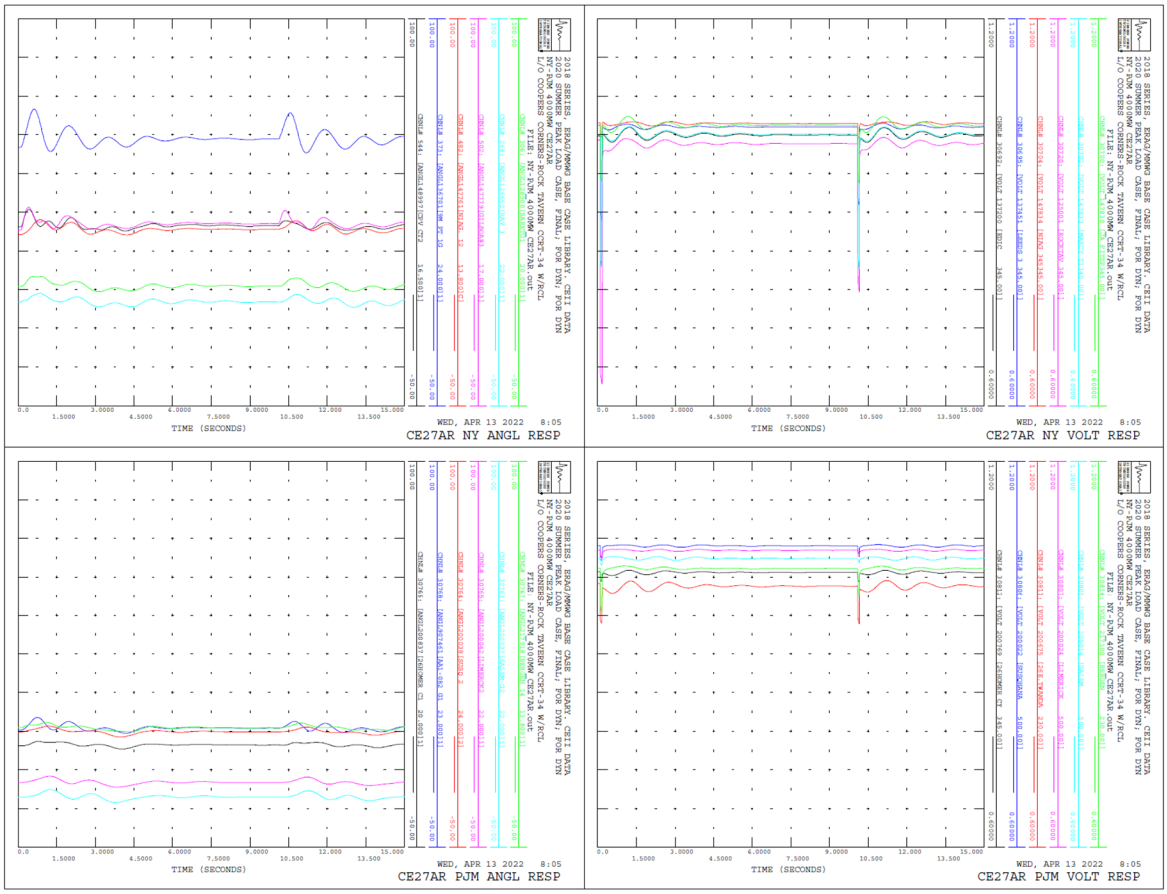


**Figure 12: NY-PJM 4000 MW Contingency CE27AR Angle/Voltage Response Plots**

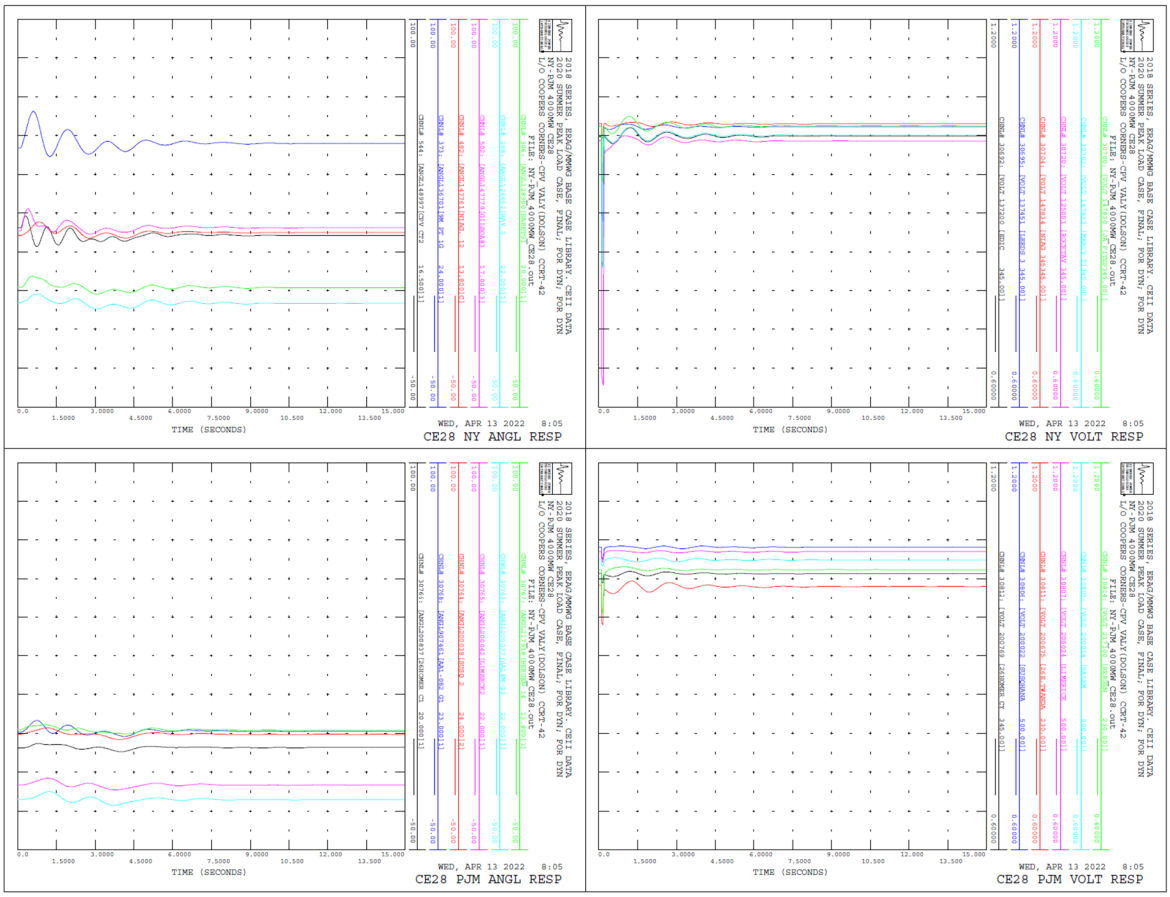


**Figure 13: NY-PJM 4000 MW Contingency CE28 Angle/Voltage Response Plots**

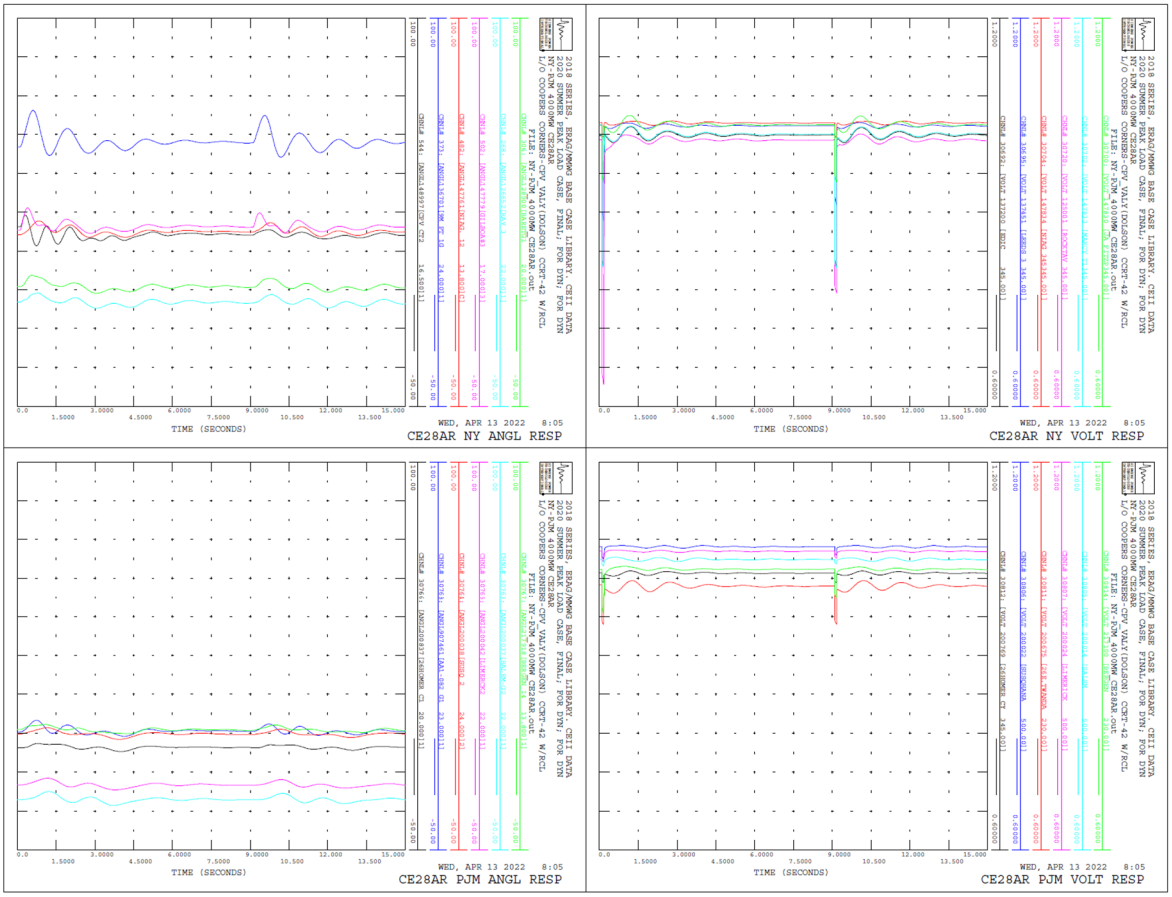


**Figure 14: NY-PJM 4000 MW Contingency CE28AR Angle/Voltage Response Plots**

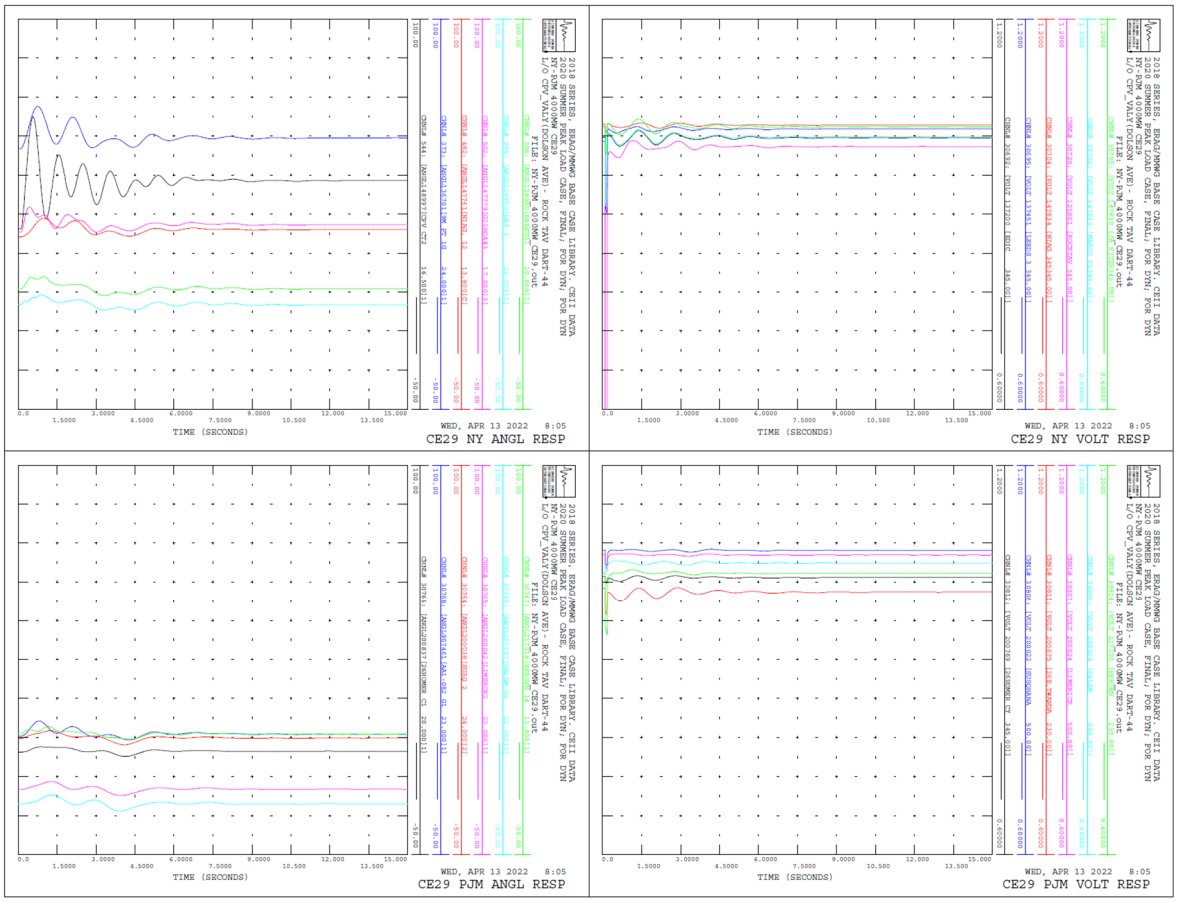


**Figure 15: NY-PJM 4000 MW Contingency CE29 Angle/Voltage Response Plots**

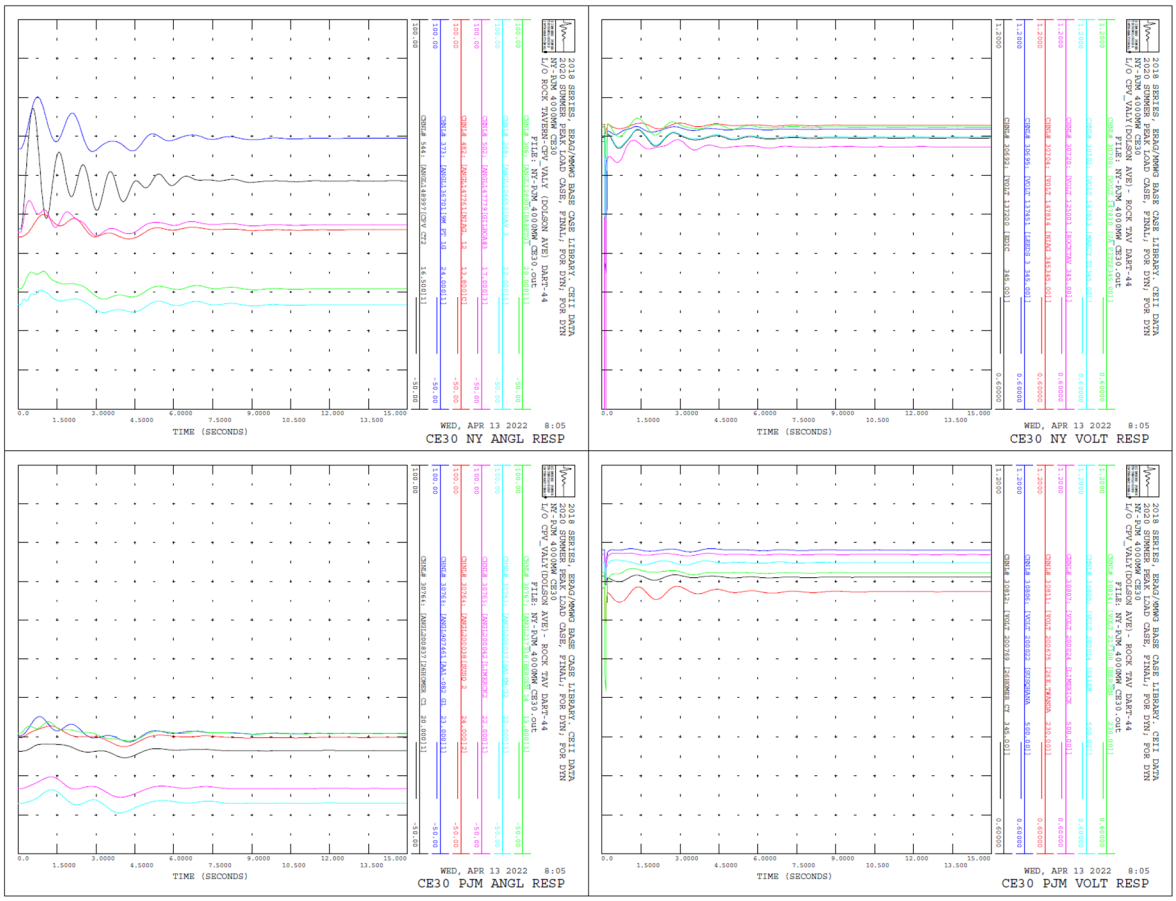


**Figure 16: NY-PJM 4000 MW Contingency CE30 Angle/Voltage Response Plots**

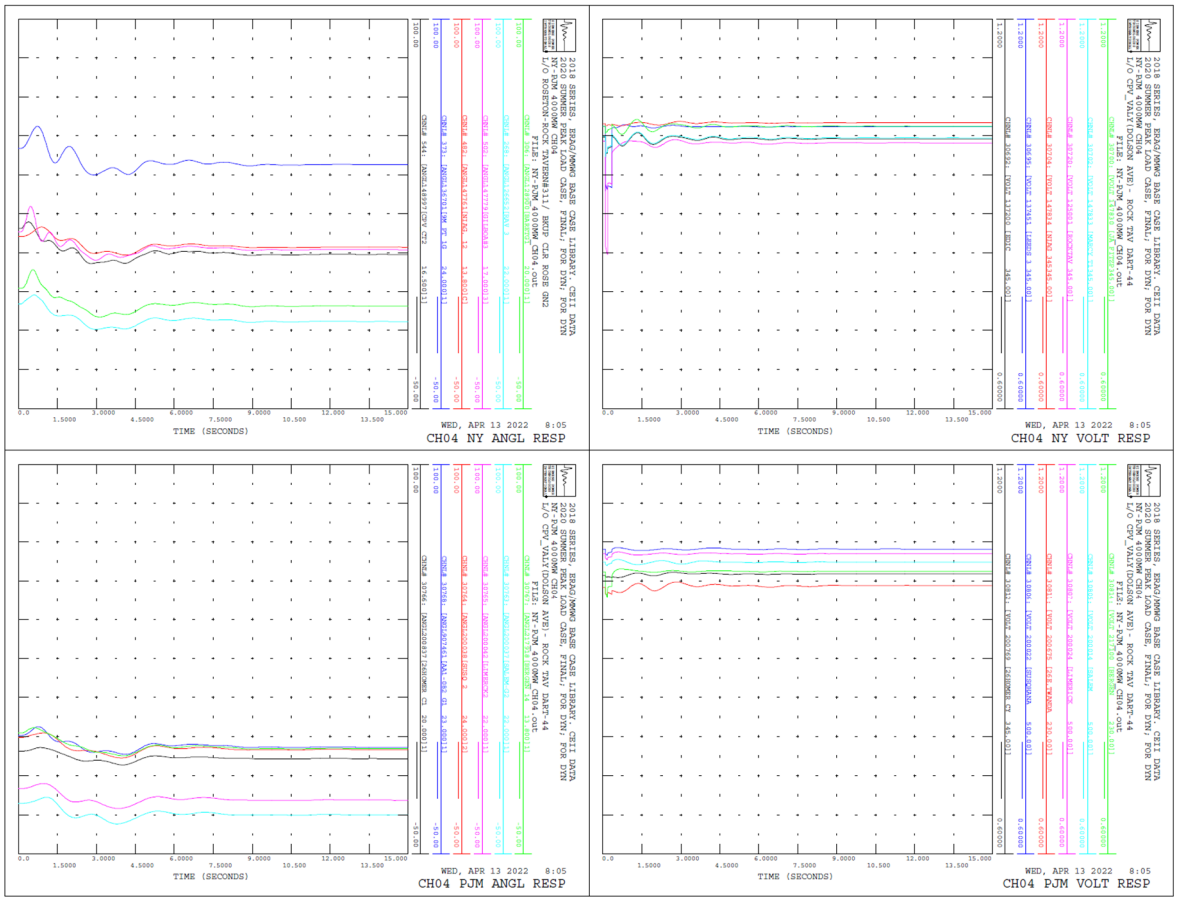


**Figure 17: NY-PJM 4000 MW Contingency CH04 Angle/Voltage Response Plots**

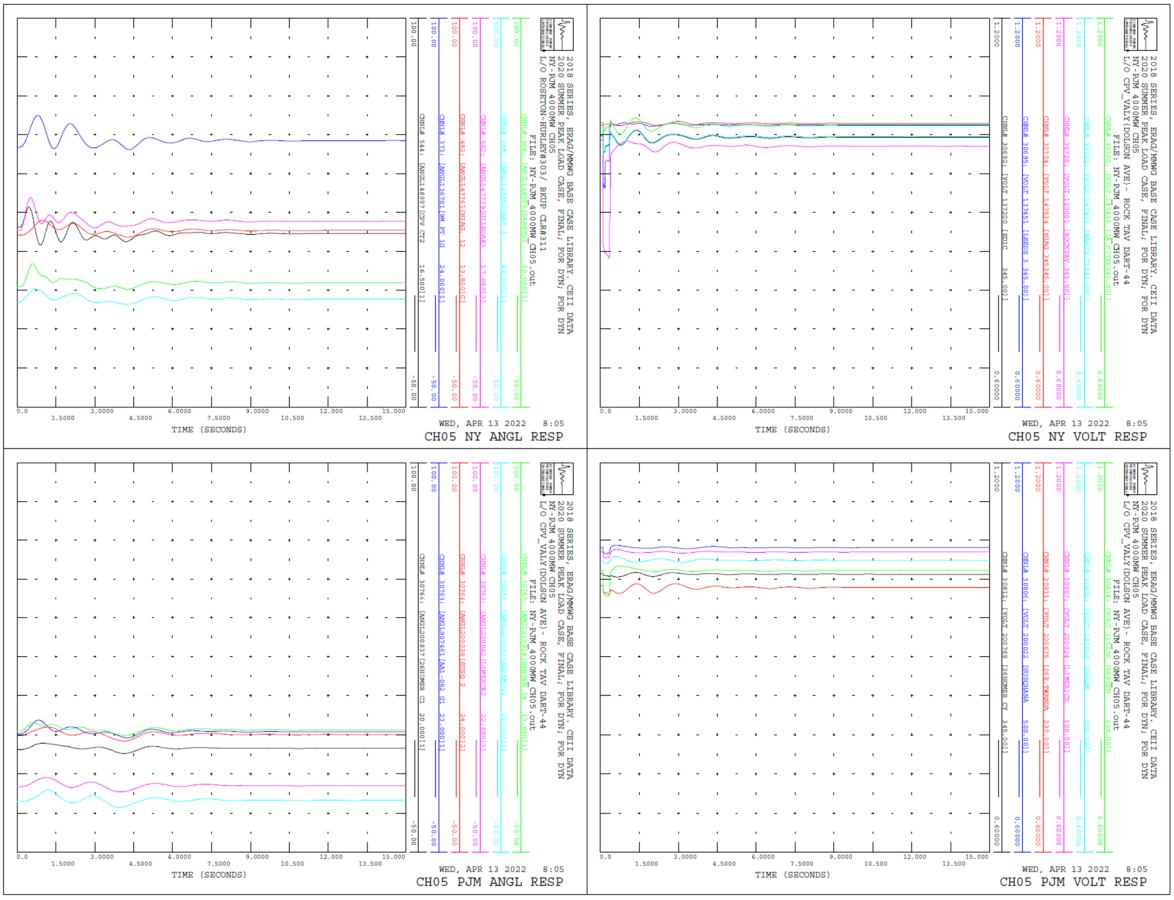


**Figure 18: NY-PJM 4000 MW Contingency CH05 Angle/Voltage Response Plots**

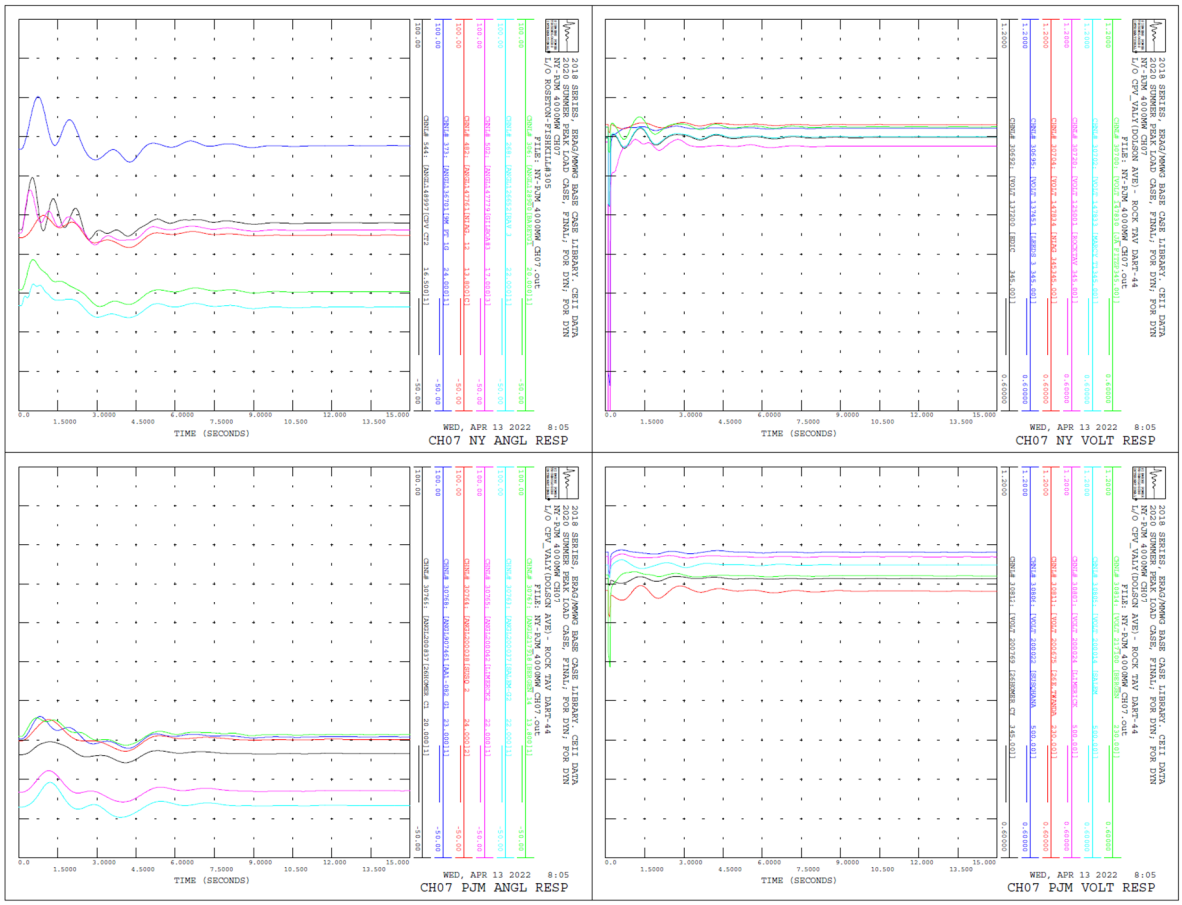


**Figure 19: NY-PJM 4000 MW Contingency CH07 Angle/Voltage Response Plots**

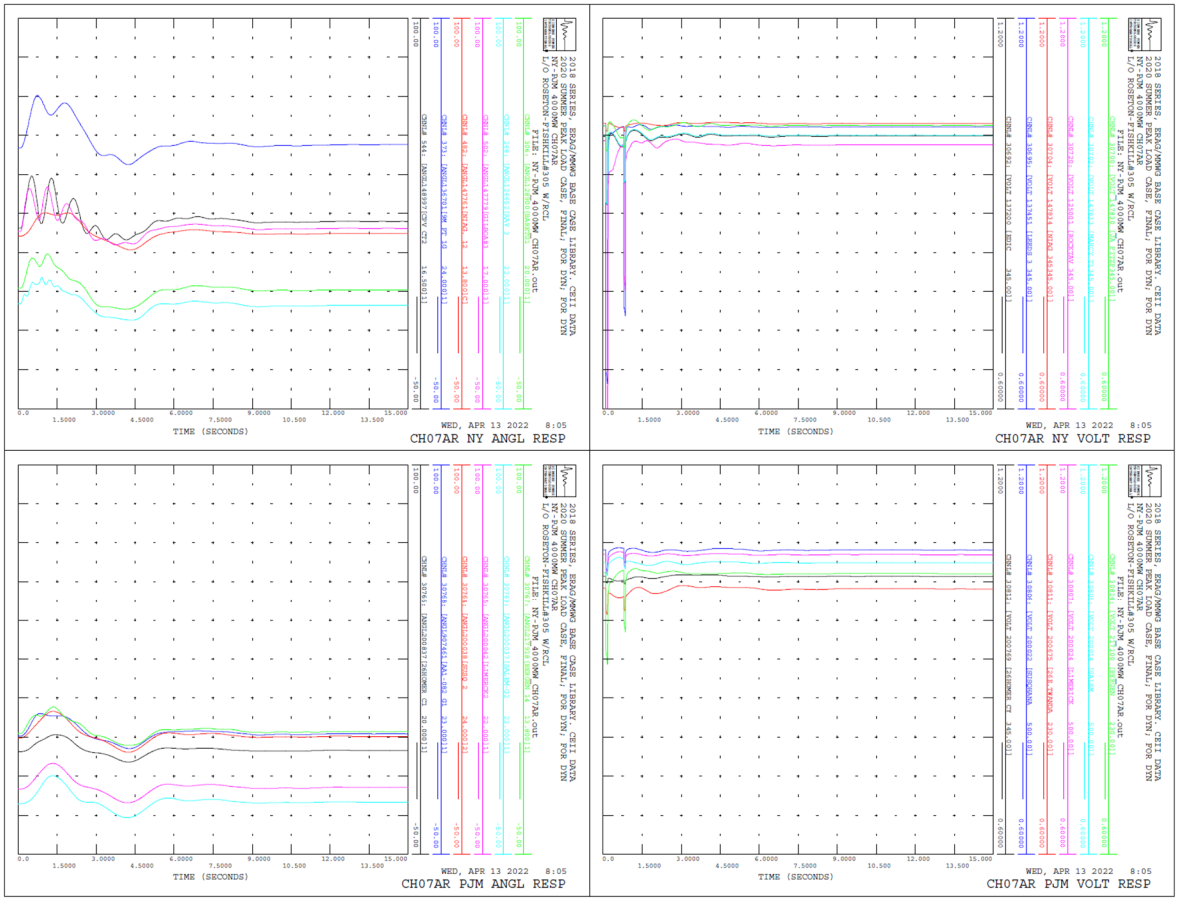


**Figure 20: NY-PJM 4000 MW Contingency CH07AR Angle/Voltage Response Plots**

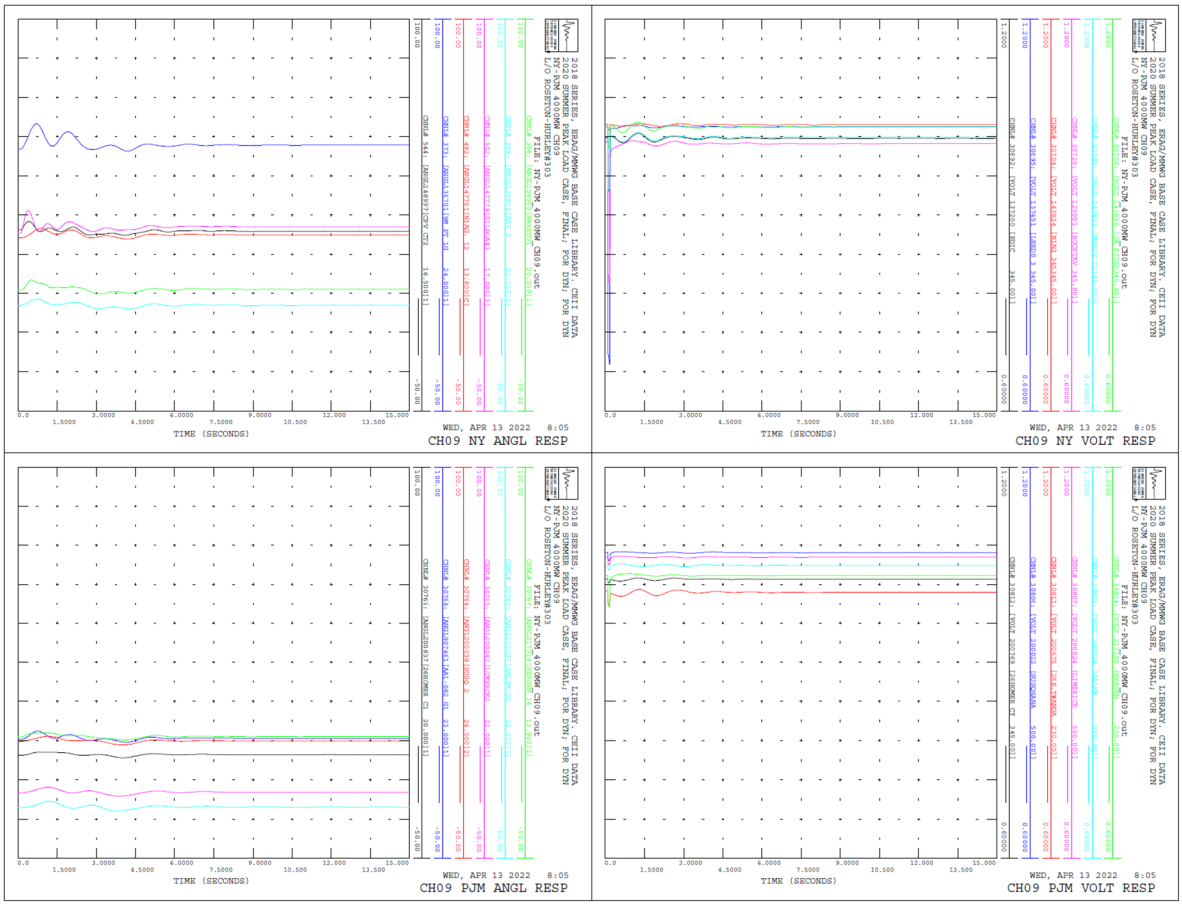


**Figure 21: NY-PJM 4000 MW Contingency CH09 Angle/Voltage Response Plots**

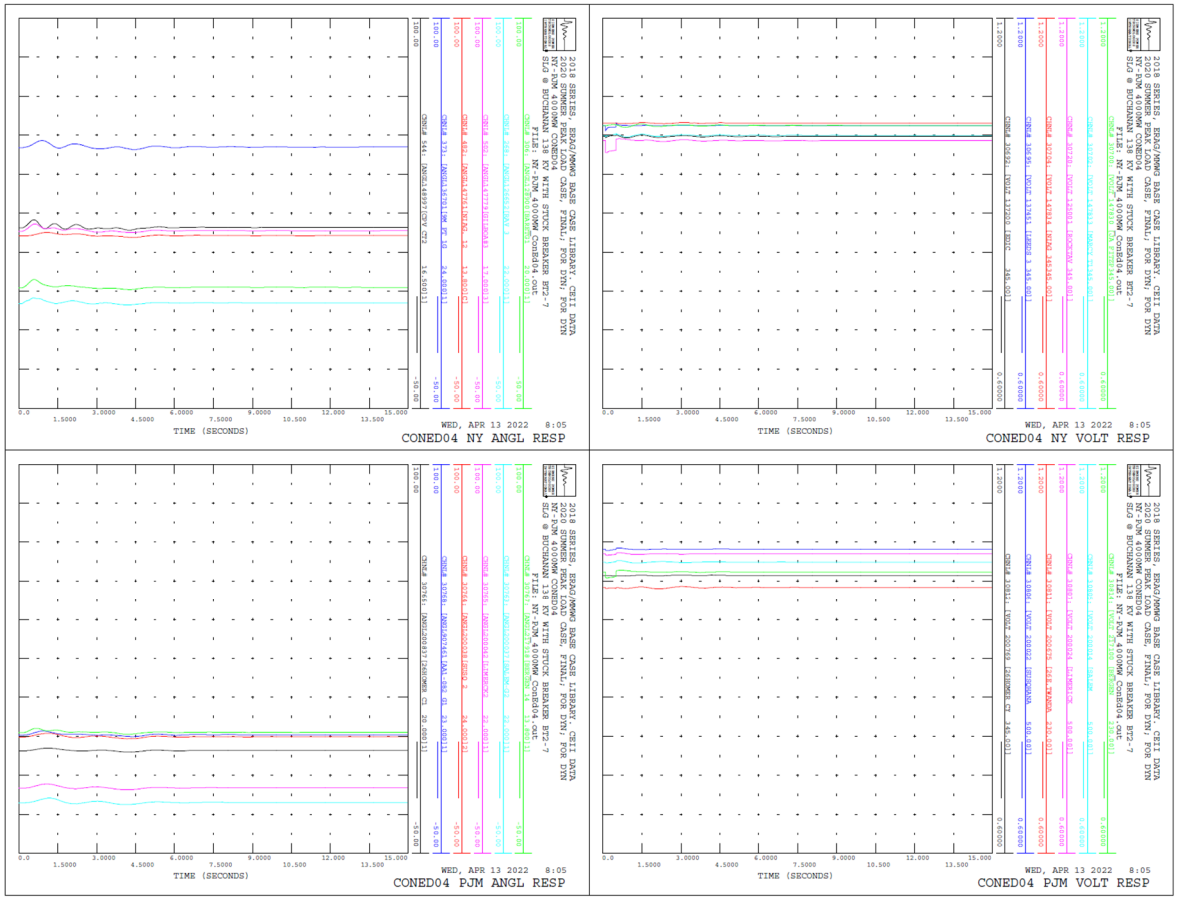


**Figure 22: NY-PJM 4000 MW Contingency CONED04 Angle/Voltage Response Plots**

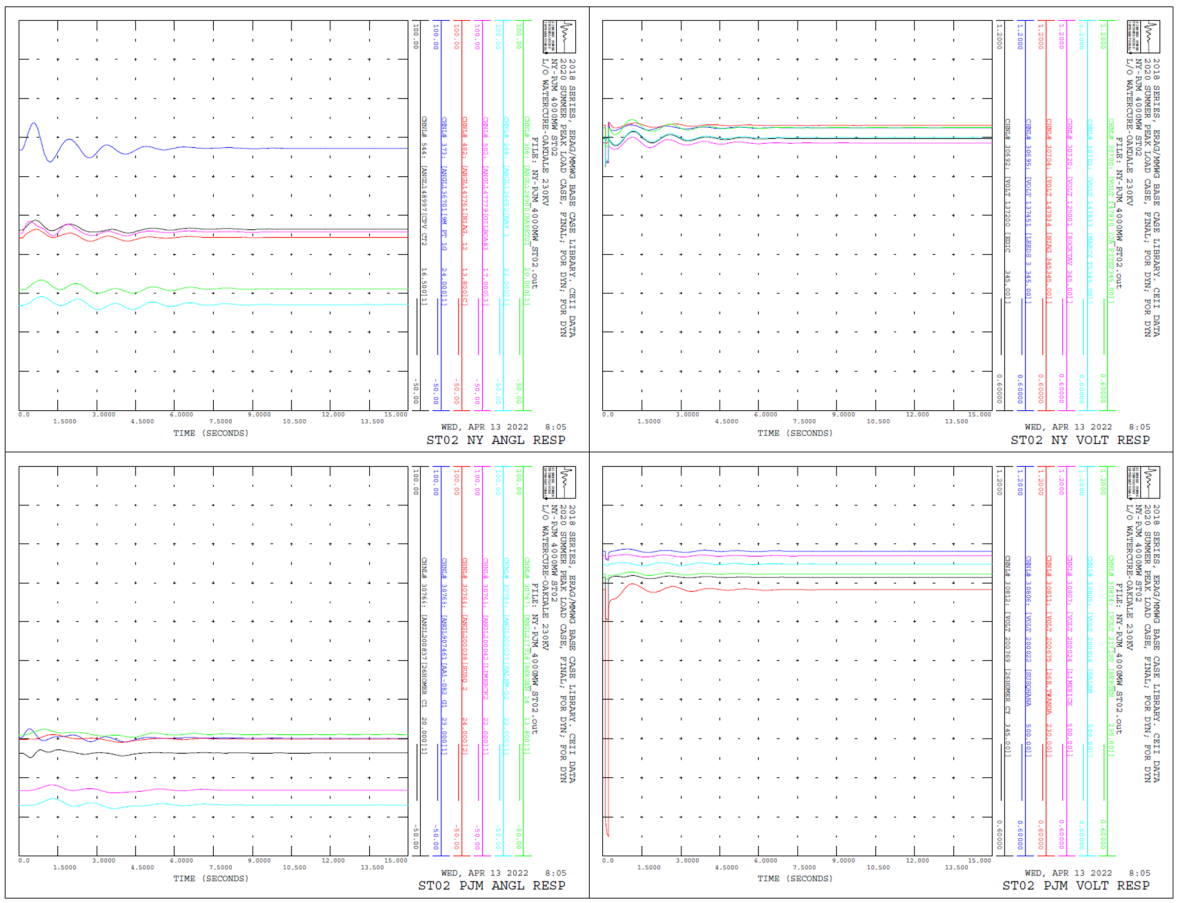


**Figure 23: NY-PJM 4000 MW Contingency ST02 Angle/Voltage Response Plots**

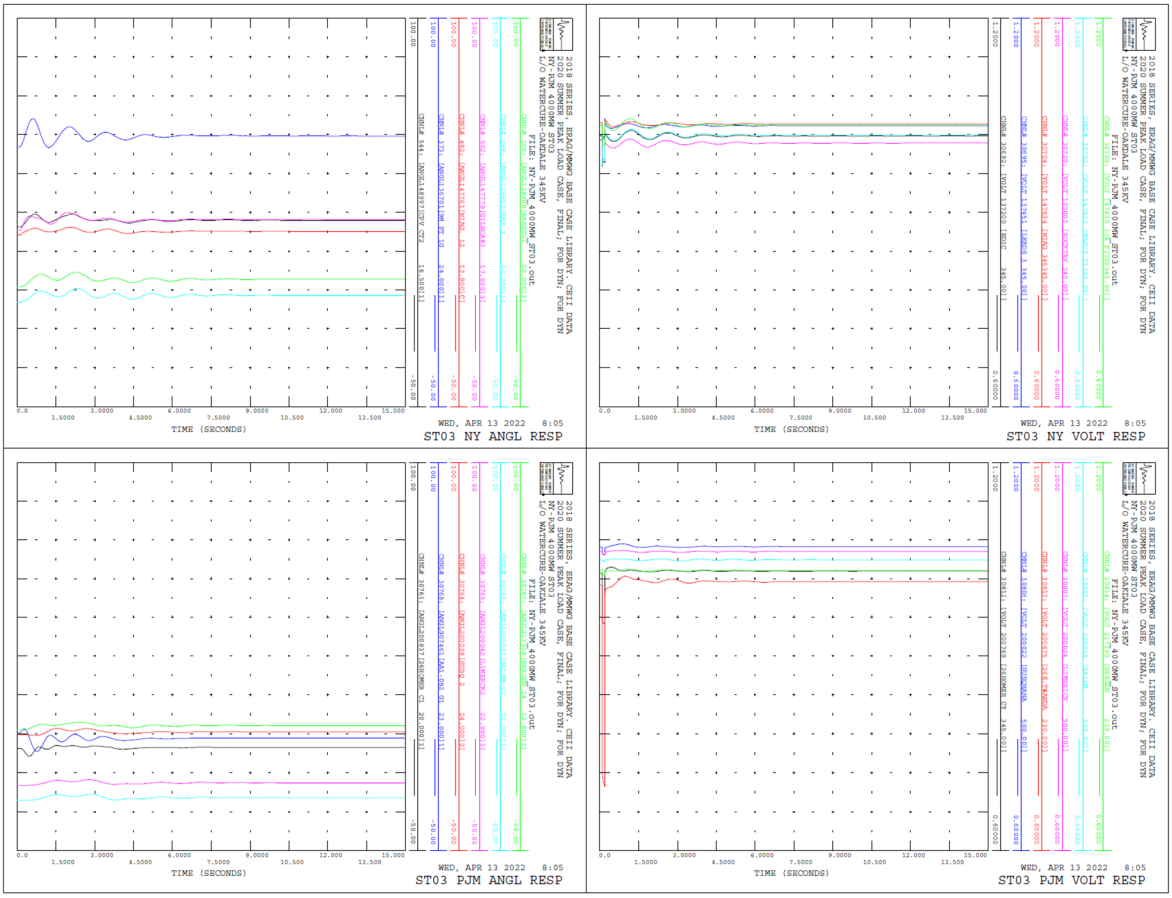


**Figure 24: NY-PJM 4000 MW Contingency ST03 Angle/Voltage Response Plots**

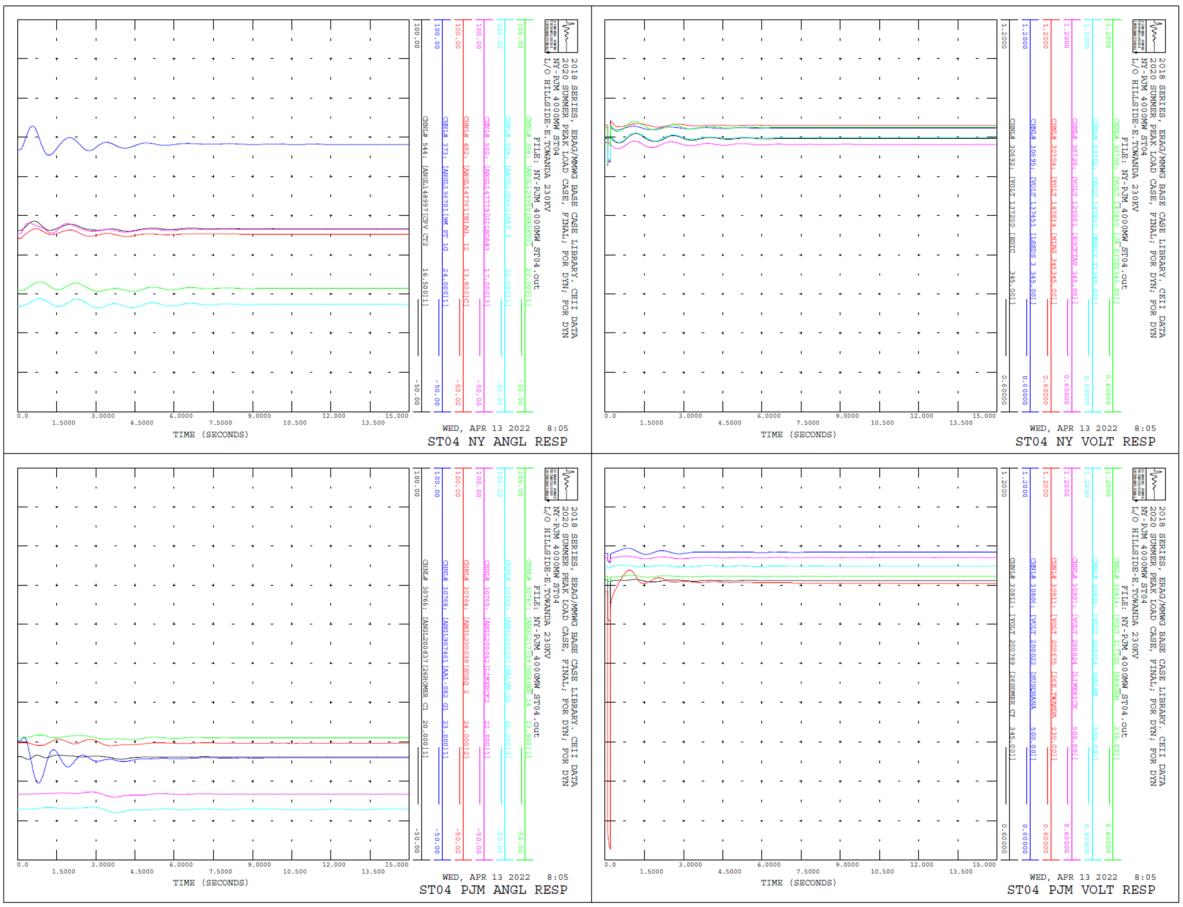


**Figure 25: NY-PJM 4000 MW Contingency ST04 Angle/Voltage Response Plots**

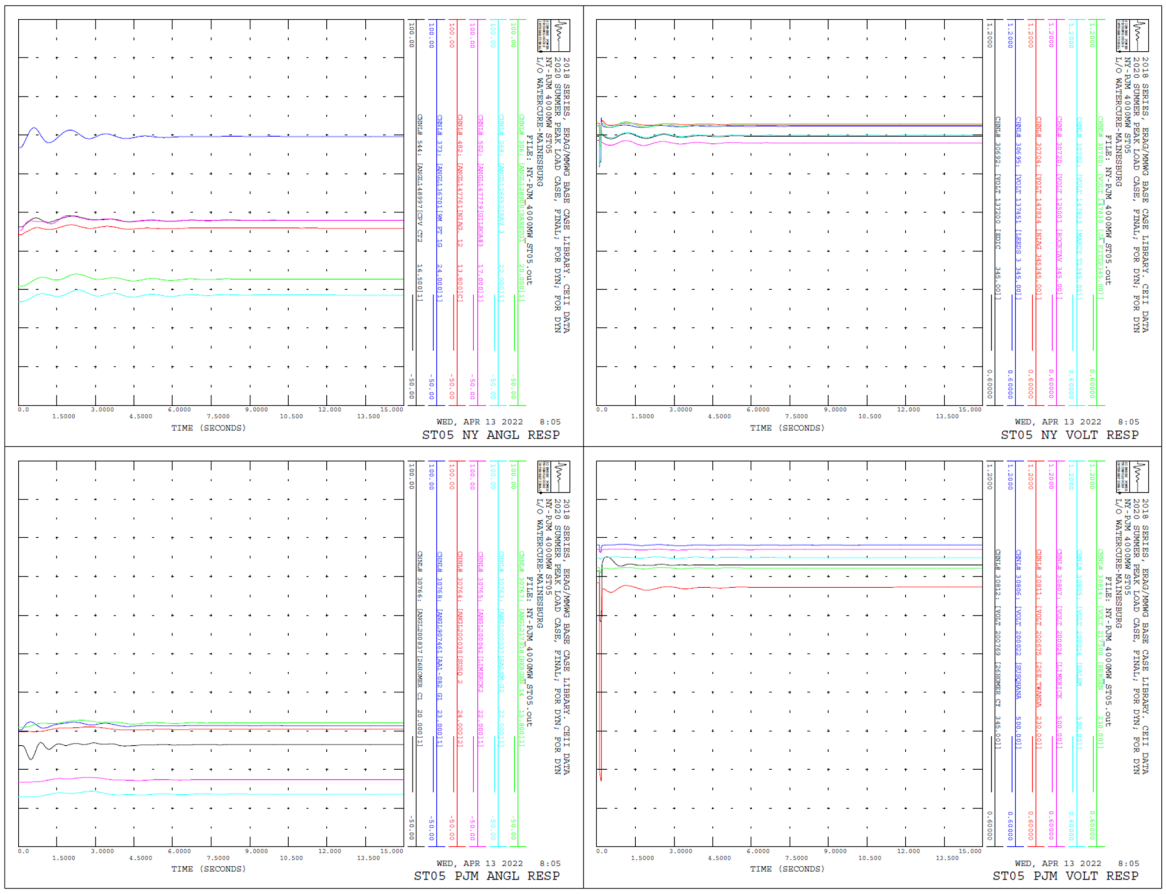


**Figure 26: NY-PJM 4000 MW Contingency ST05 Angle/Voltage Response Plots**

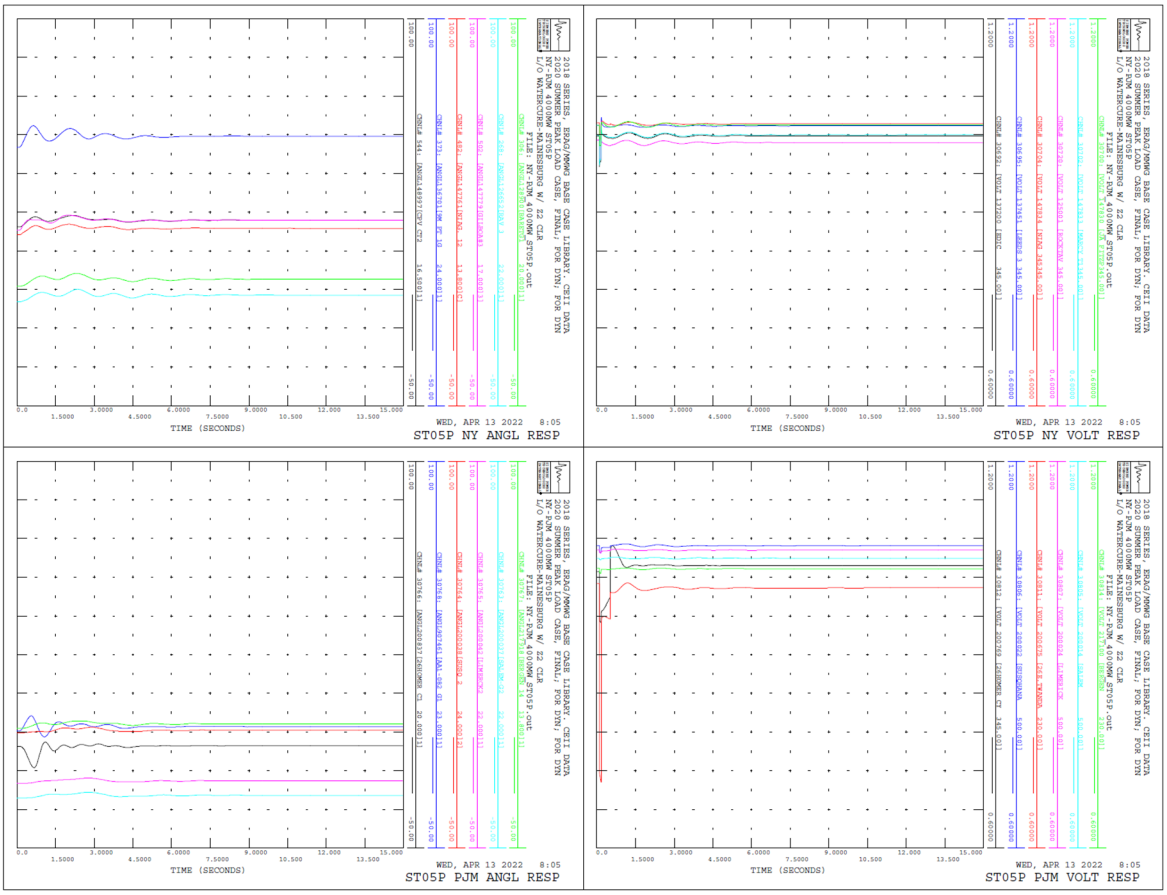


**Figure 27: NY-PJM 4000 MW Contingency ST05P Angle/Voltage Response Plots**

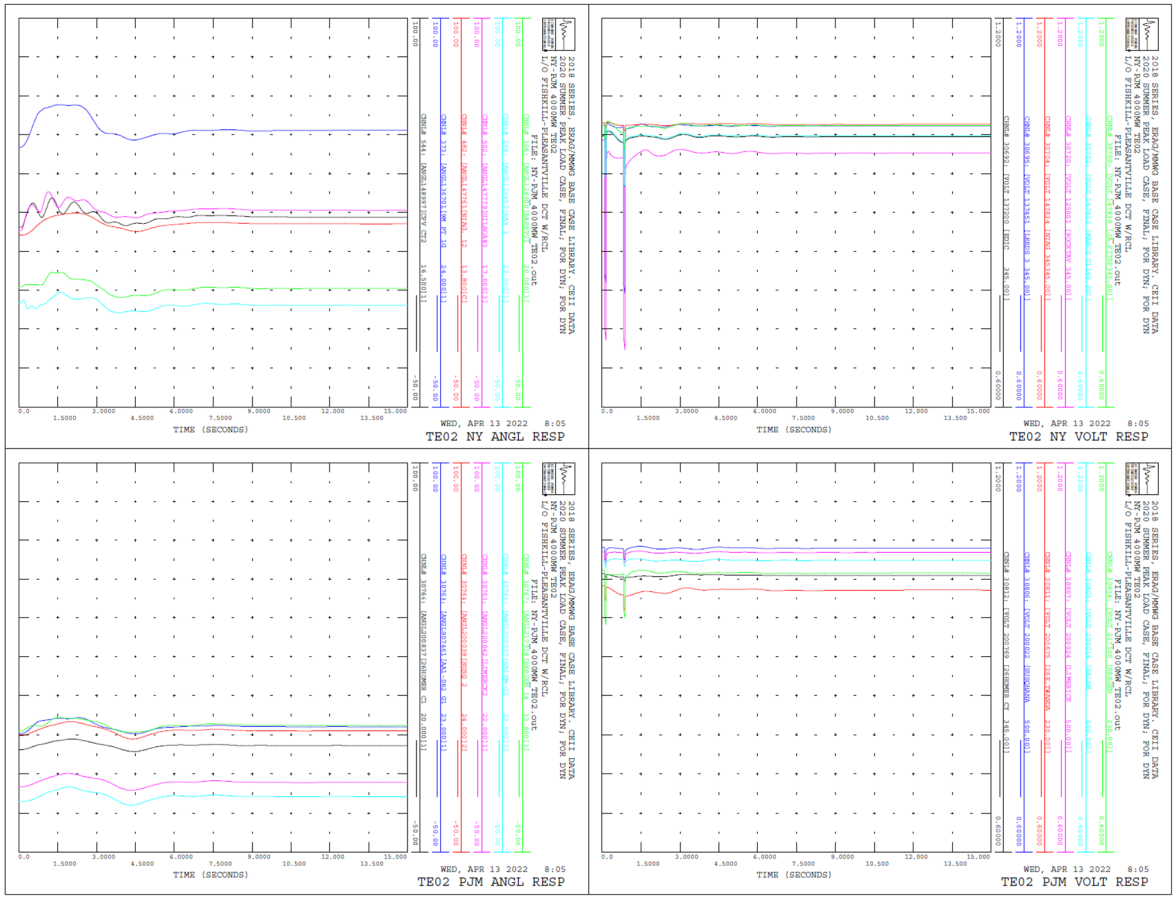


**Figure 28: NY-PJM 4000 MW Contingency TE02 Angle/Voltage Response Plots**

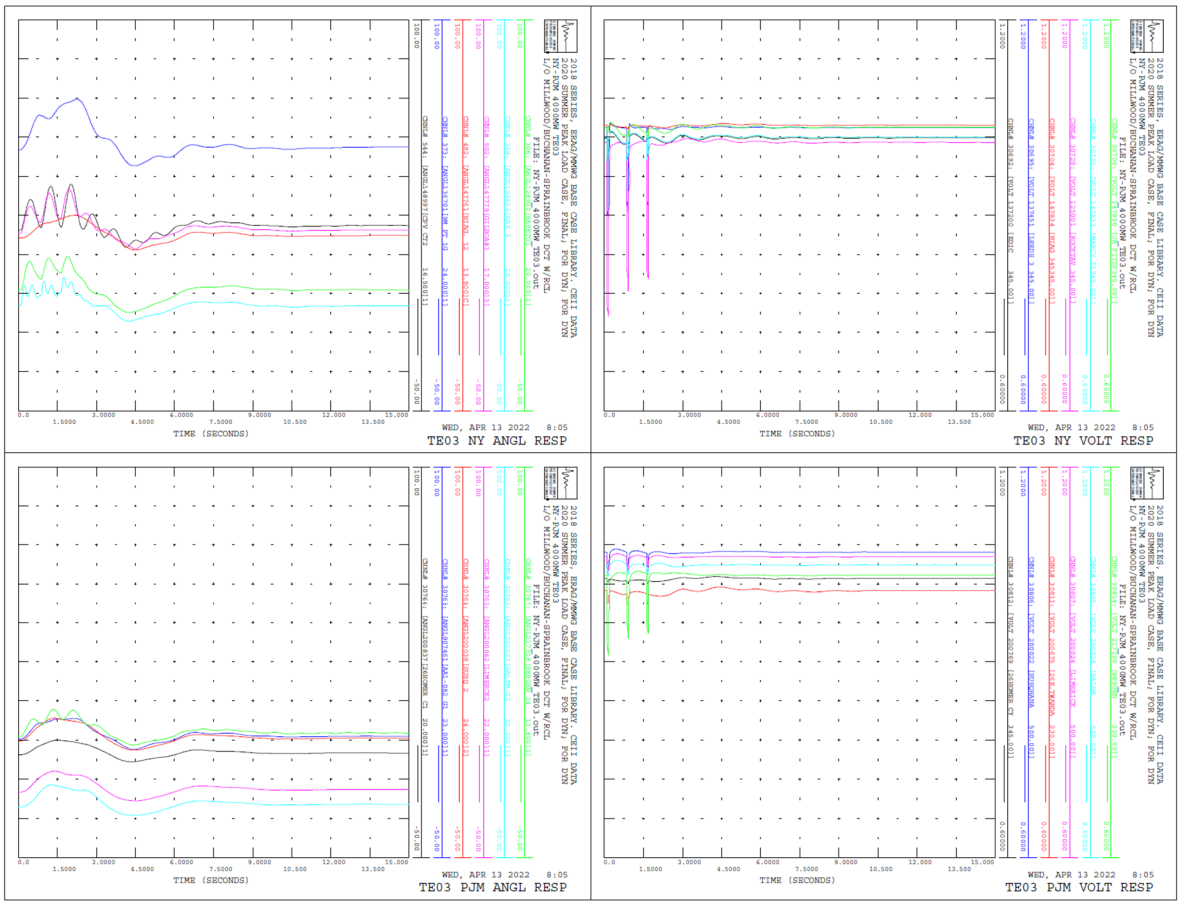


**Figure 29: NY-PJM 4000 MW Contingency TE03 Angle/Voltage Response Plots**

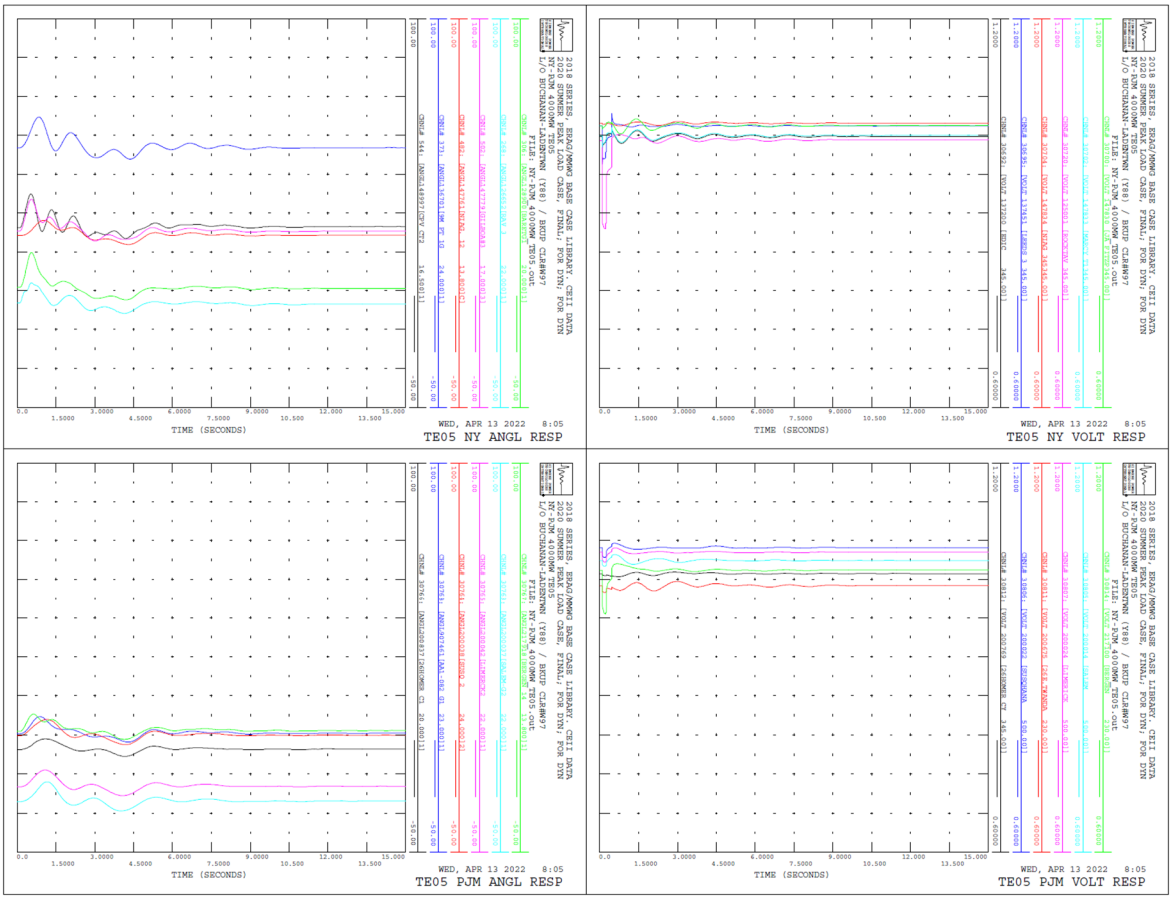


**Figure 30: NY-PJM 4000 MW Contingency TE05 Angle/Voltage Response Plots**

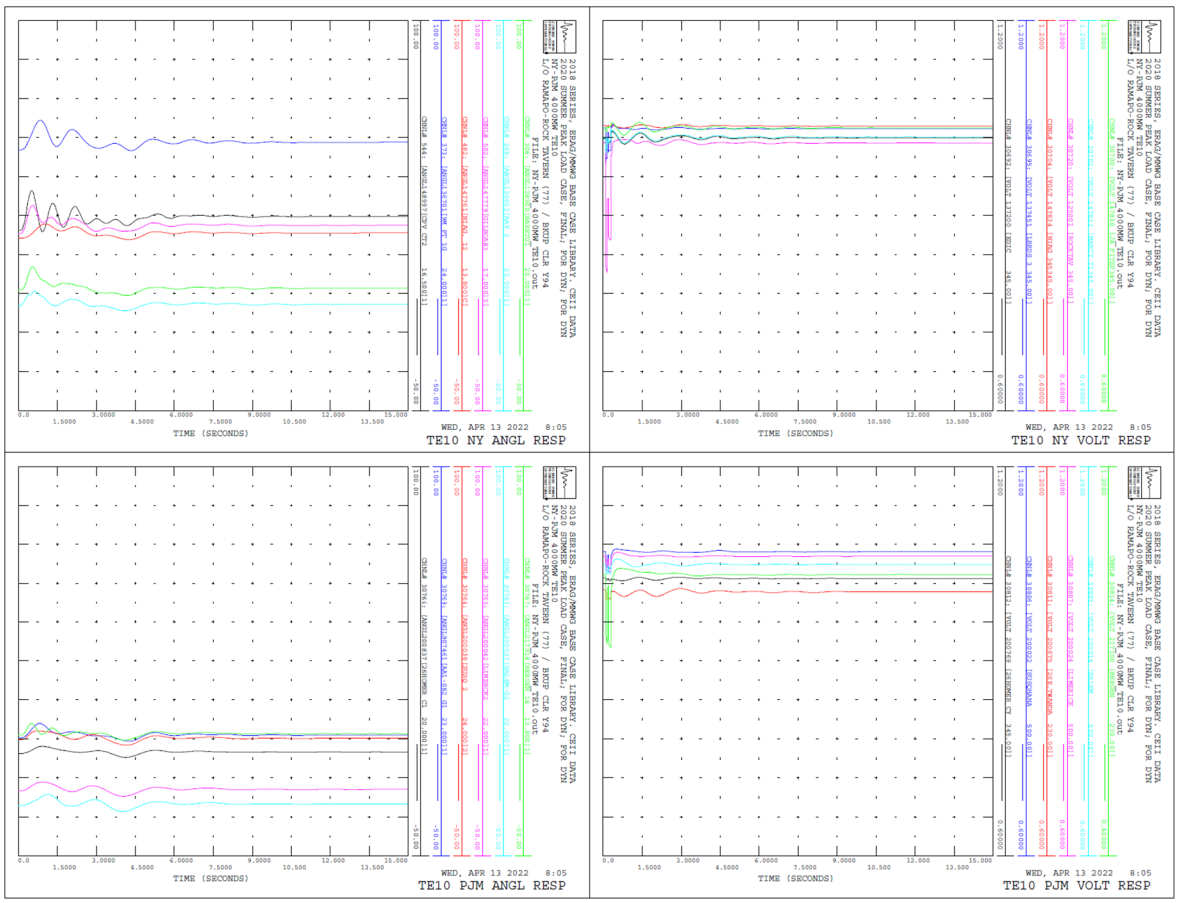


**Figure 31: NY-PJM 4000 MW Contingency TE10 Angle/Voltage Response Plots**

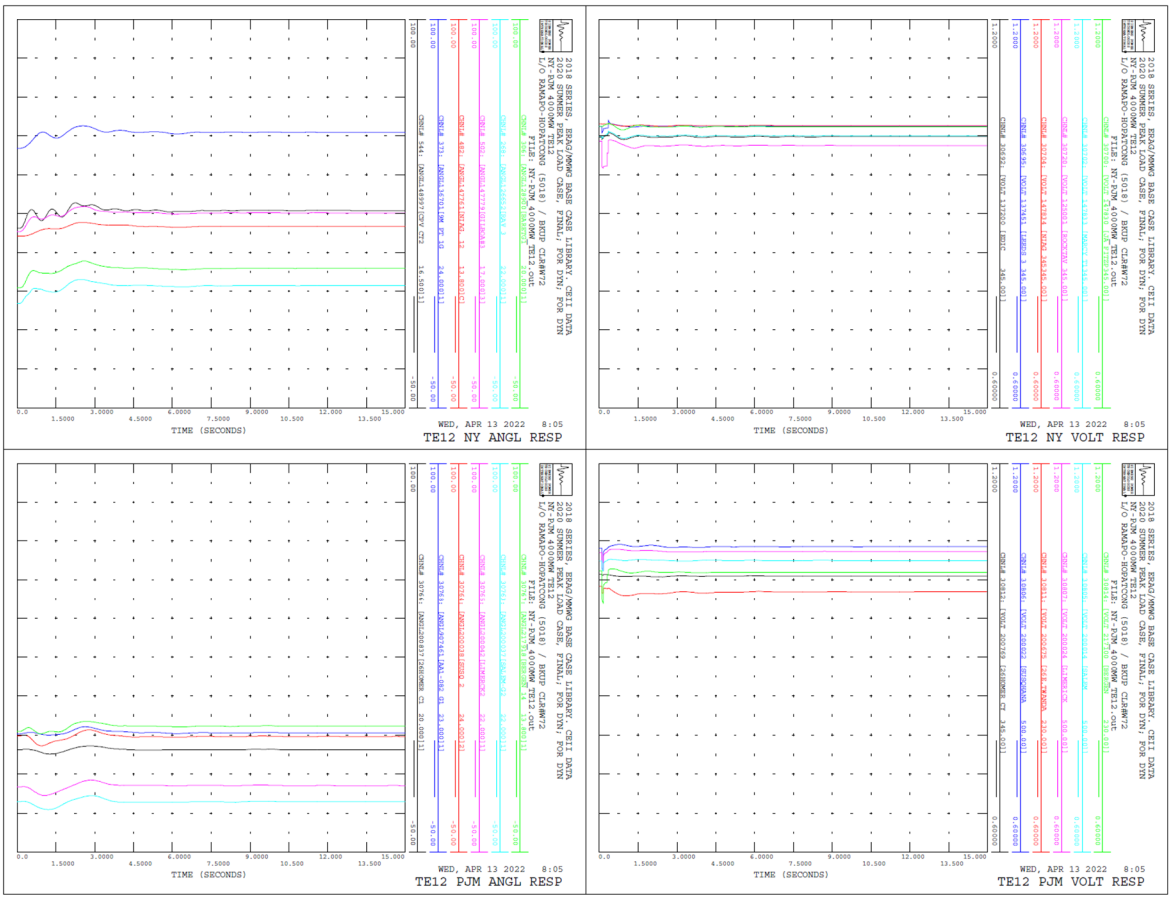


**Figure 32: NY-PJM 4000 MW Contingency TE12 Angle/Voltage Response Plots**

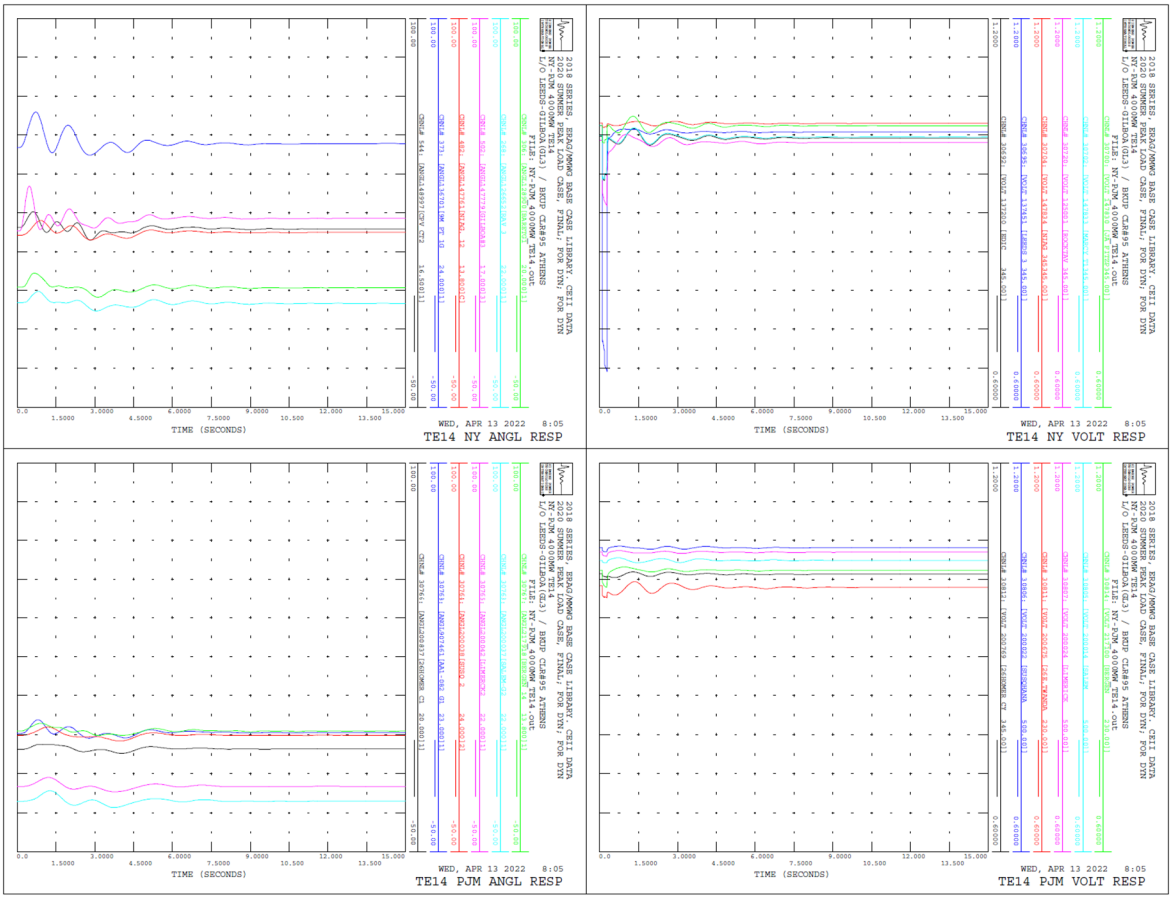


**Figure 33: NY-PJM 4000 MW Contingency TE14 Angle/Voltage Response Plots**

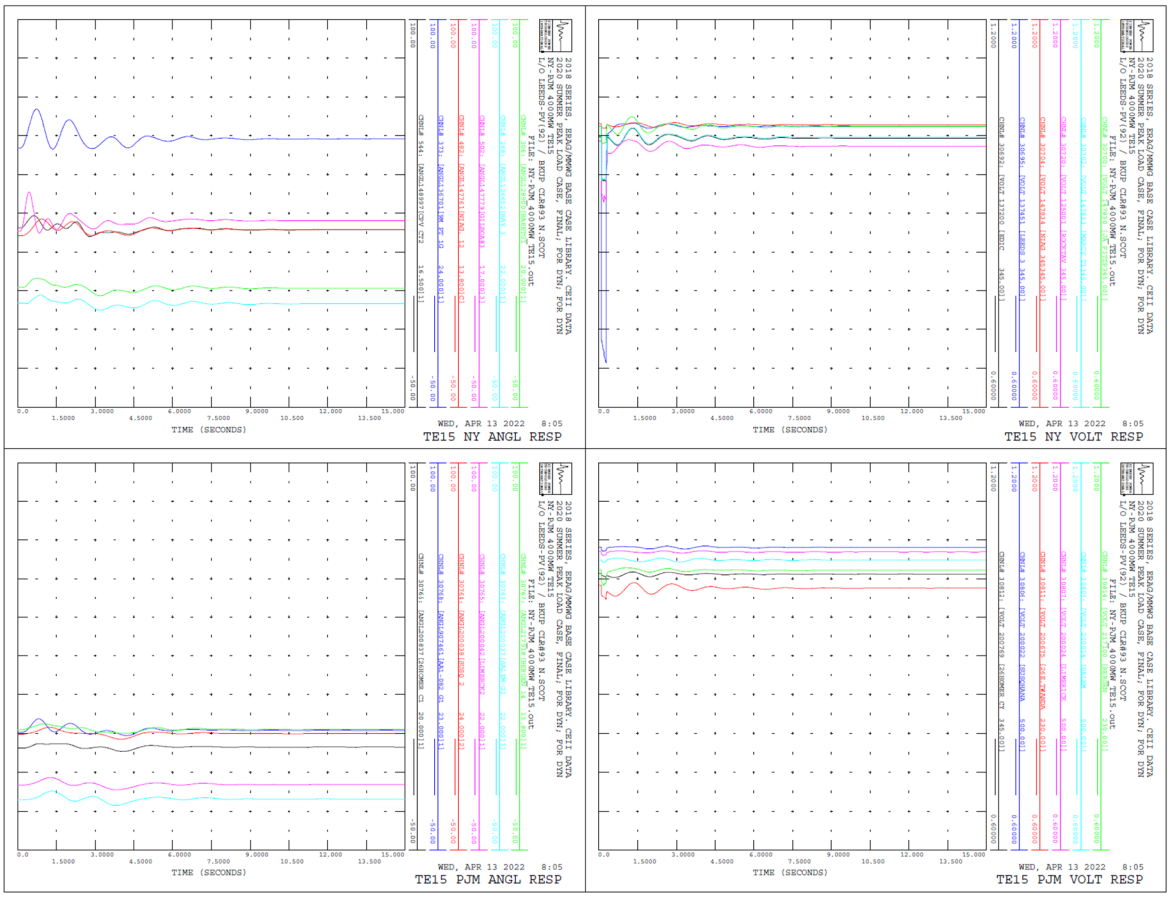


**Figure 34: NY-PJM 4000 MW Contingency TE15 Angle/Voltage Response Plots**

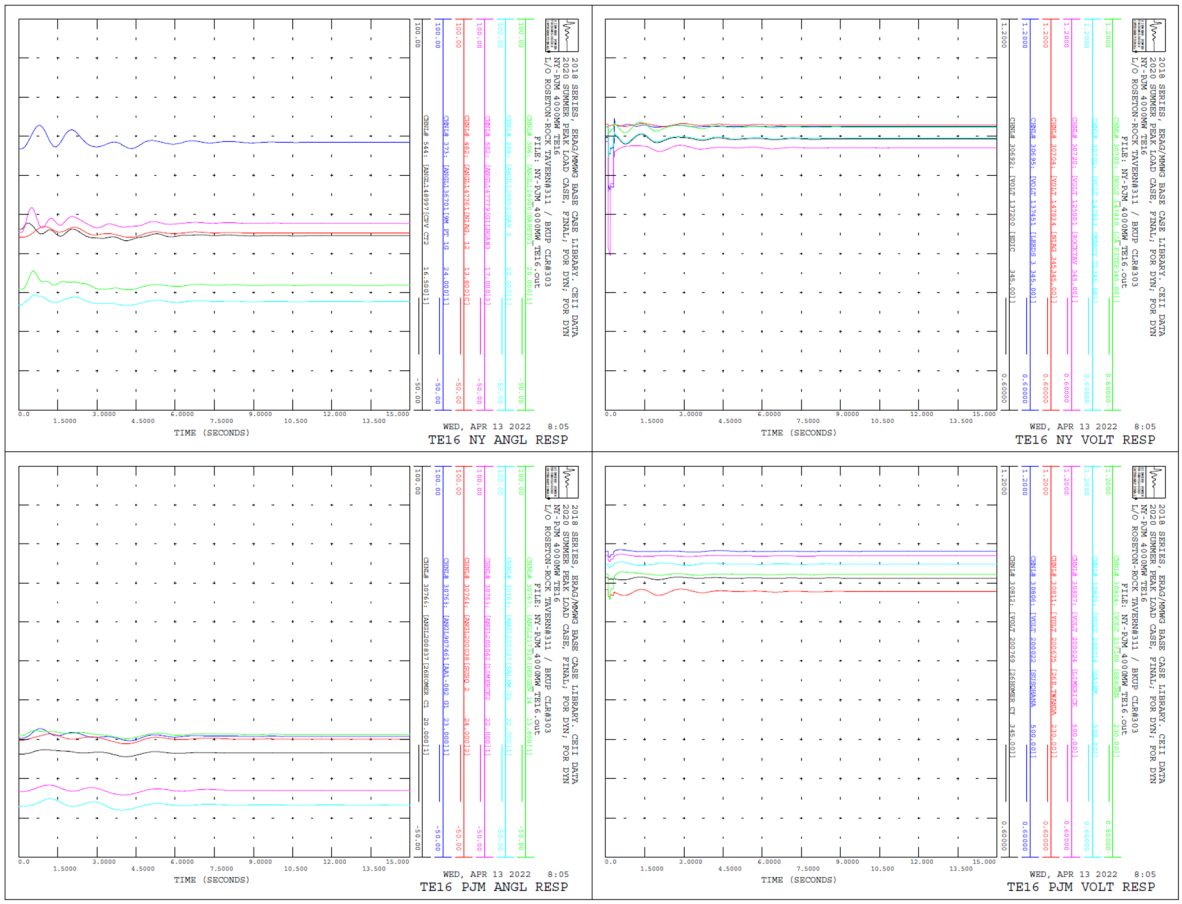


**Figure 35: NY-PJM 4000 MW Contingency TE16 Angle/Voltage Response Plots**

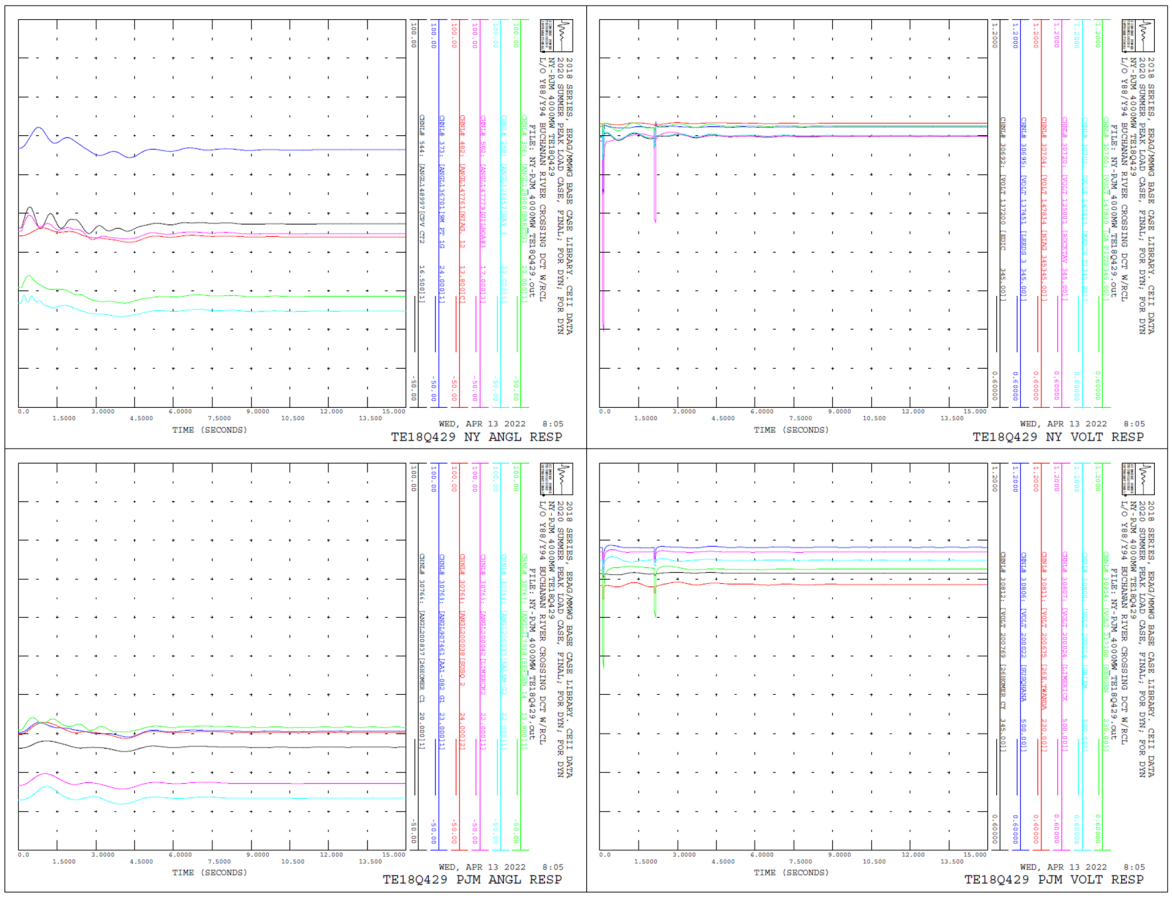


**Figure 36: NY-PJM 4000 MW Contingency TE18Q429 Angle/Voltage Response Plots**

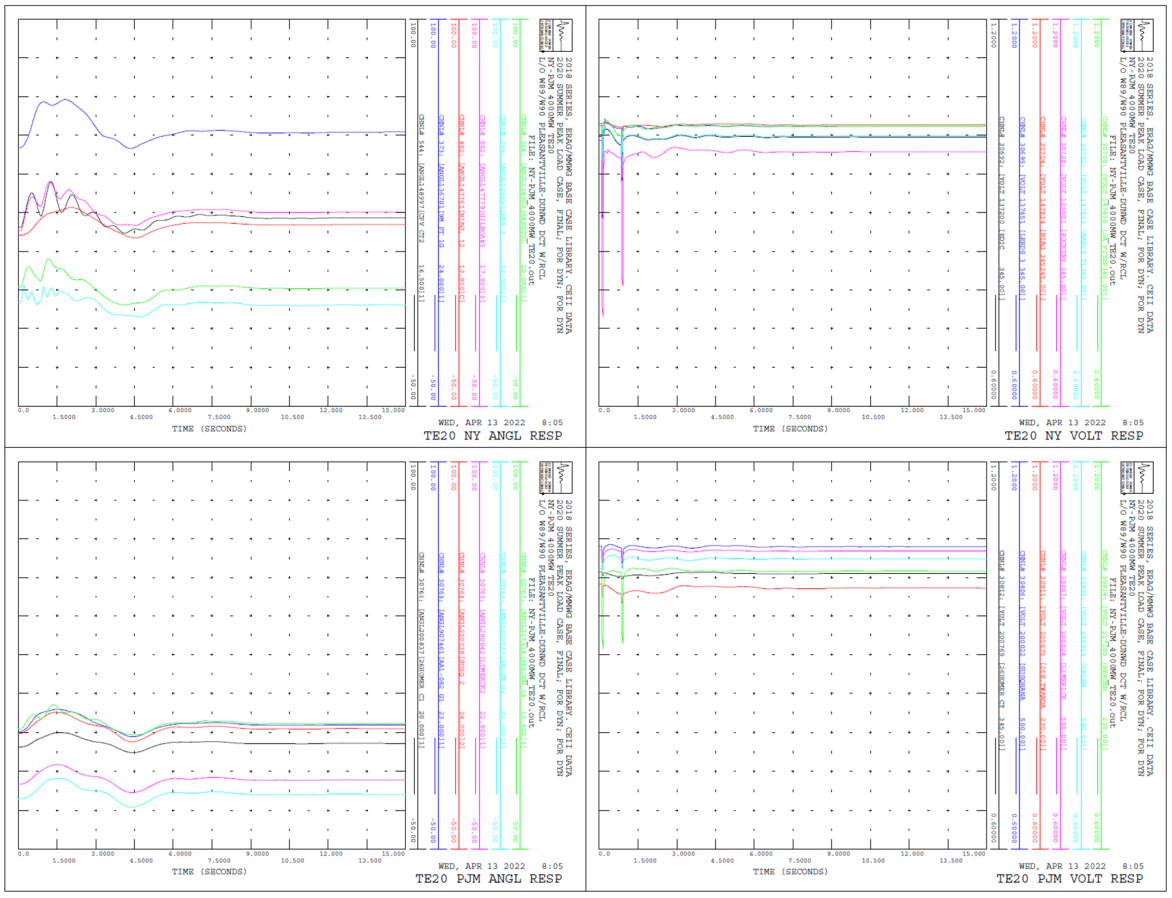


**Figure 37: NY-PJM 4000 MW Contingency TE20 Angle/Voltage Response Plots**

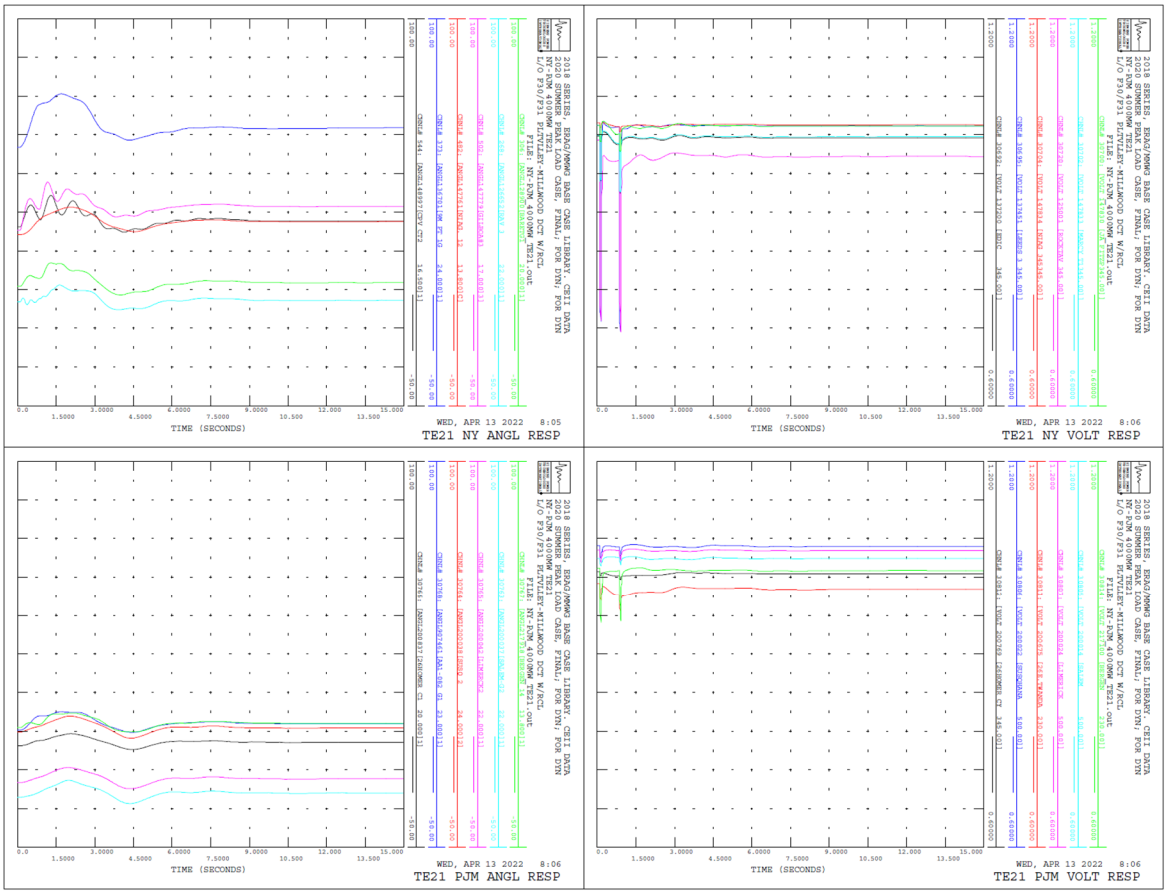


**Figure 38: NY-PJM 4000 MW Contingency TE21 Angle/Voltage Response Plots**

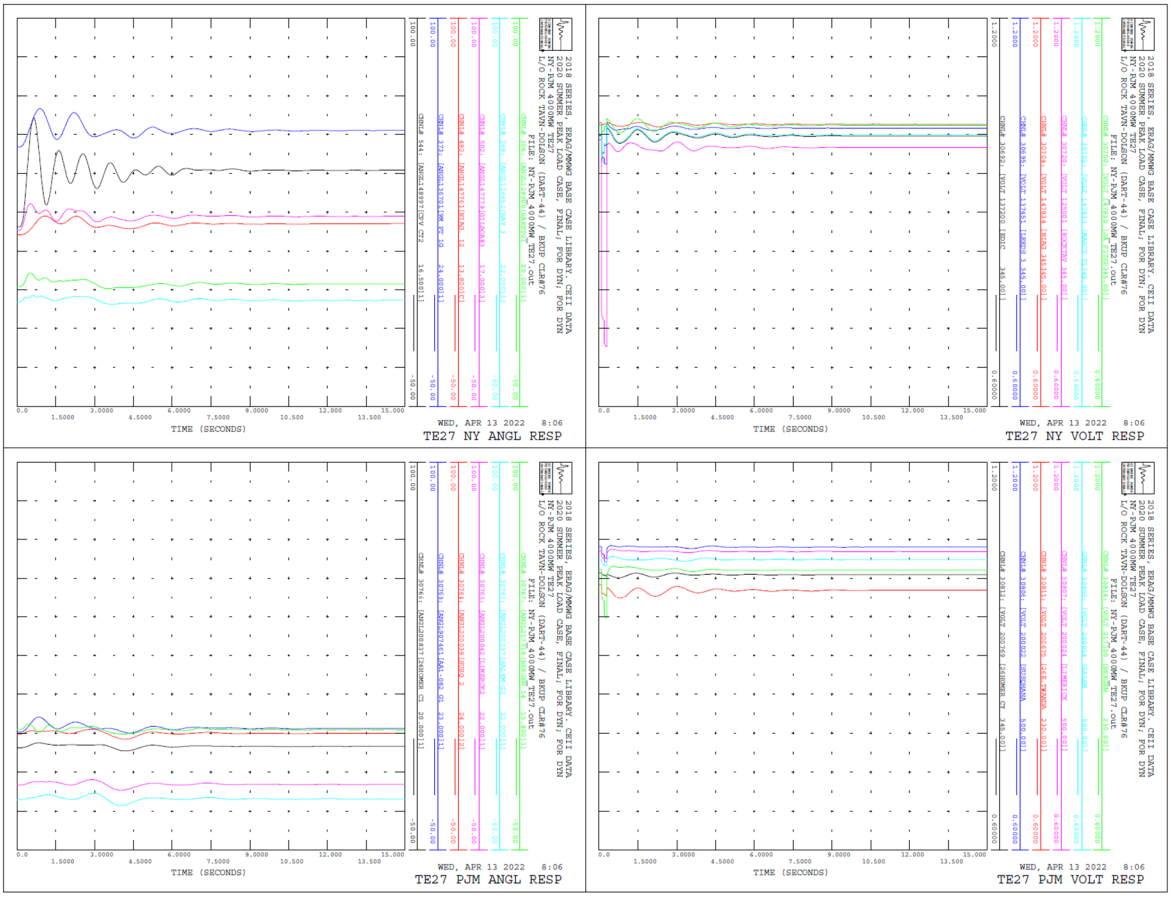


**Figure 39: NY-PJM 4000 MW Contingency TE27 Angle/Voltage Response Plots**

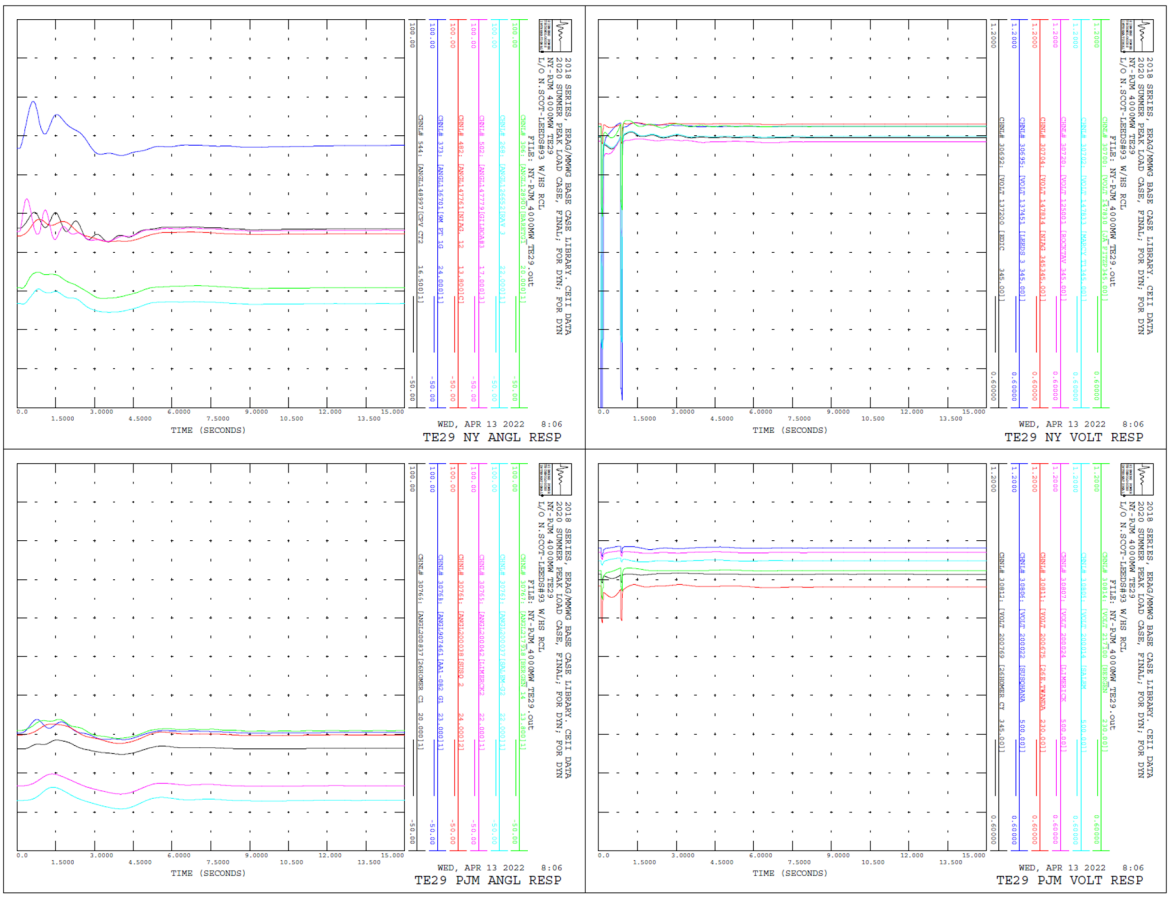


**Figure 40: NY-PJM 4000 MW Contingency TE29 Angle/Voltage Response Plots**

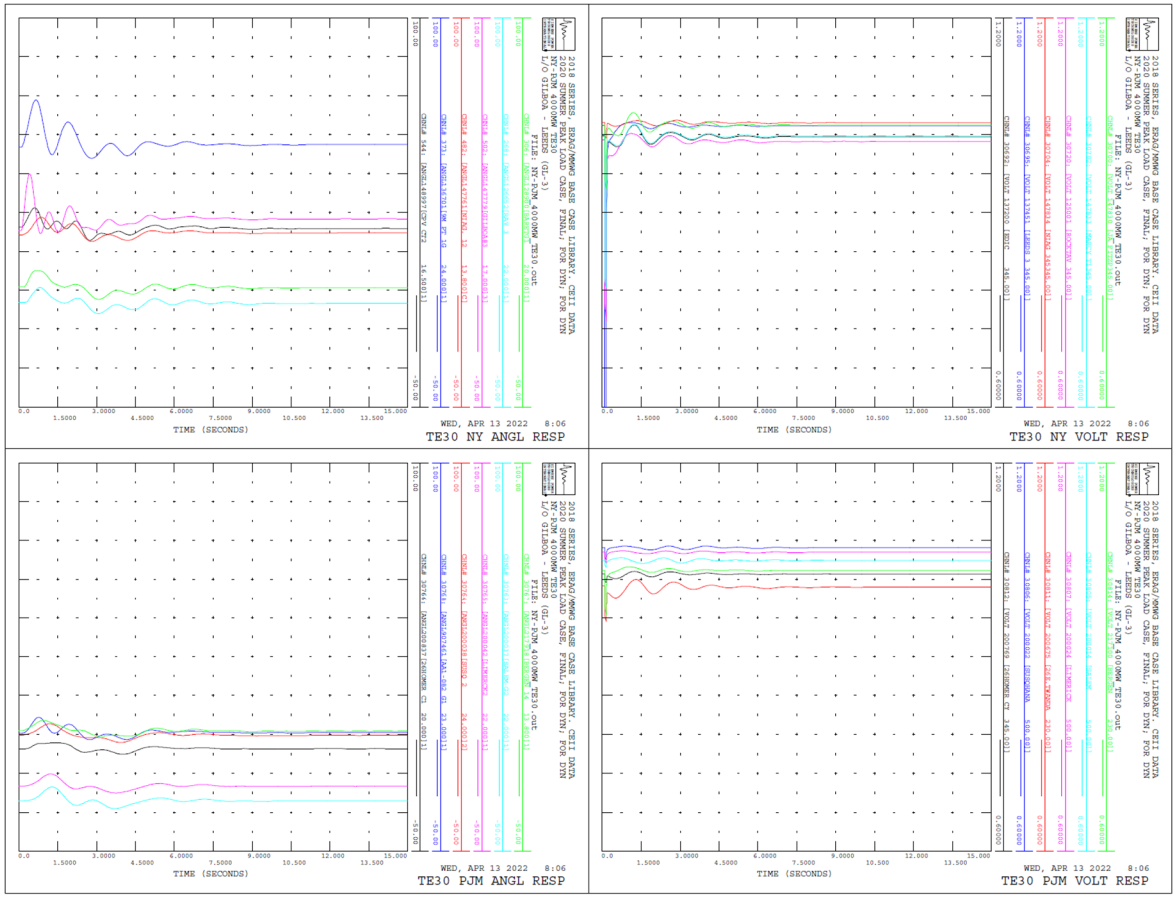


**Figure 41: NY-PJM 4000 MW Contingency TE30 Angle/Voltage Response Plots**

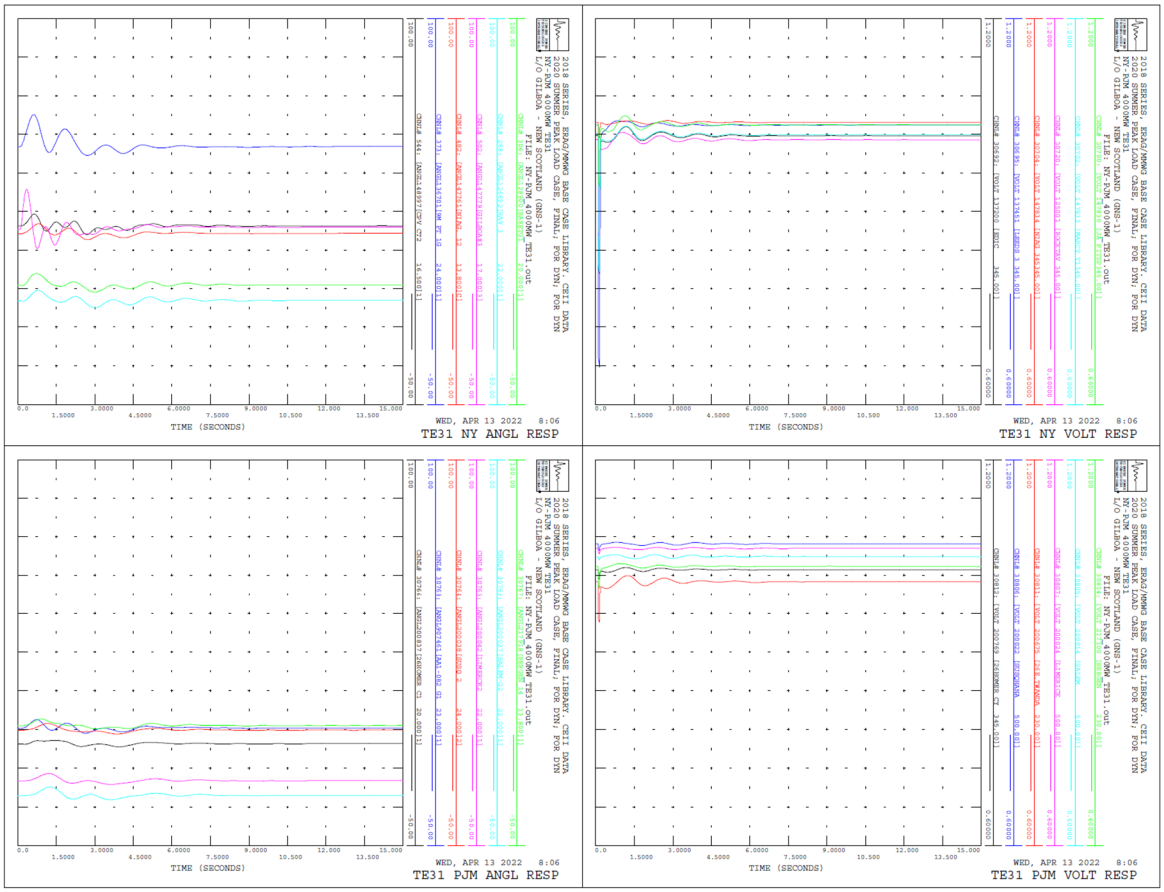


**Figure 42: NY-PJM 4000 MW Contingency TE31 Angle/Voltage Response Plots**

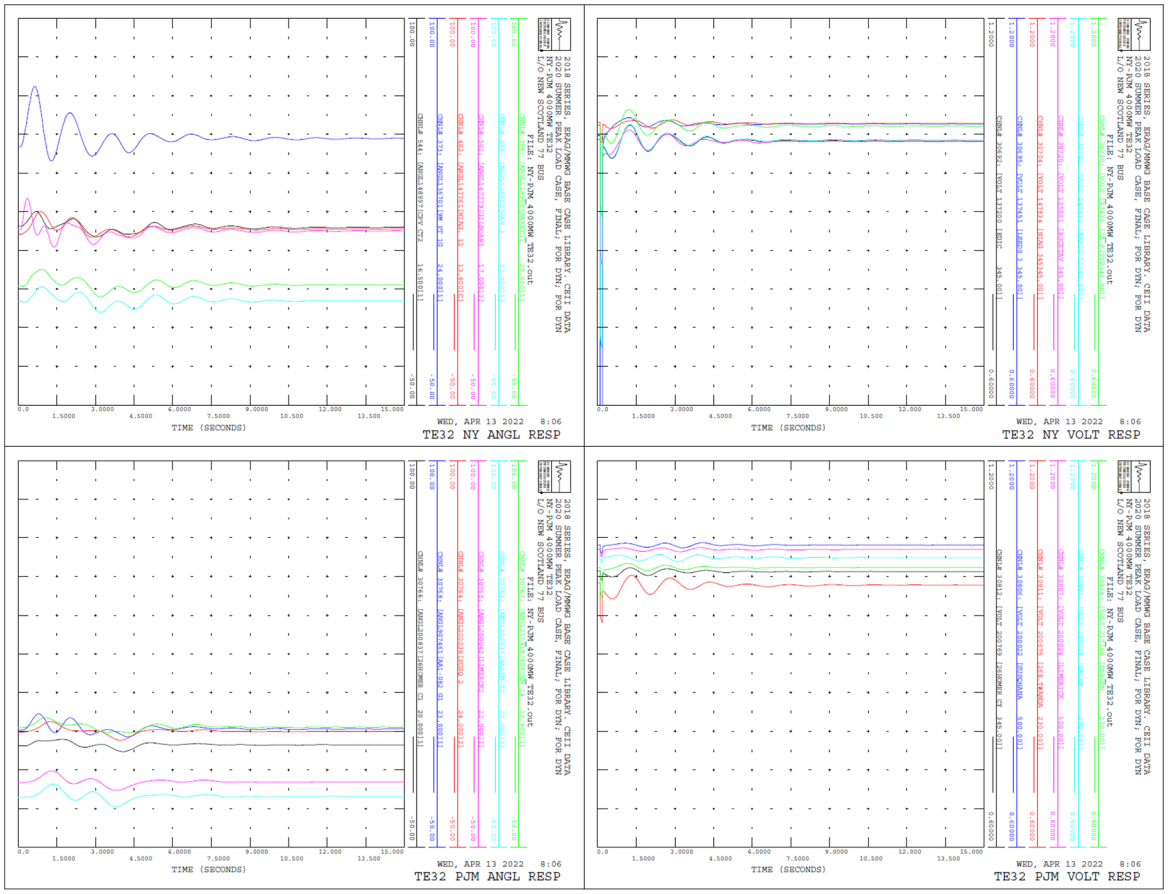


**Figure 43: NY-PJM 4000 MW Contingency TE32 Angle/Voltage Response Plots**

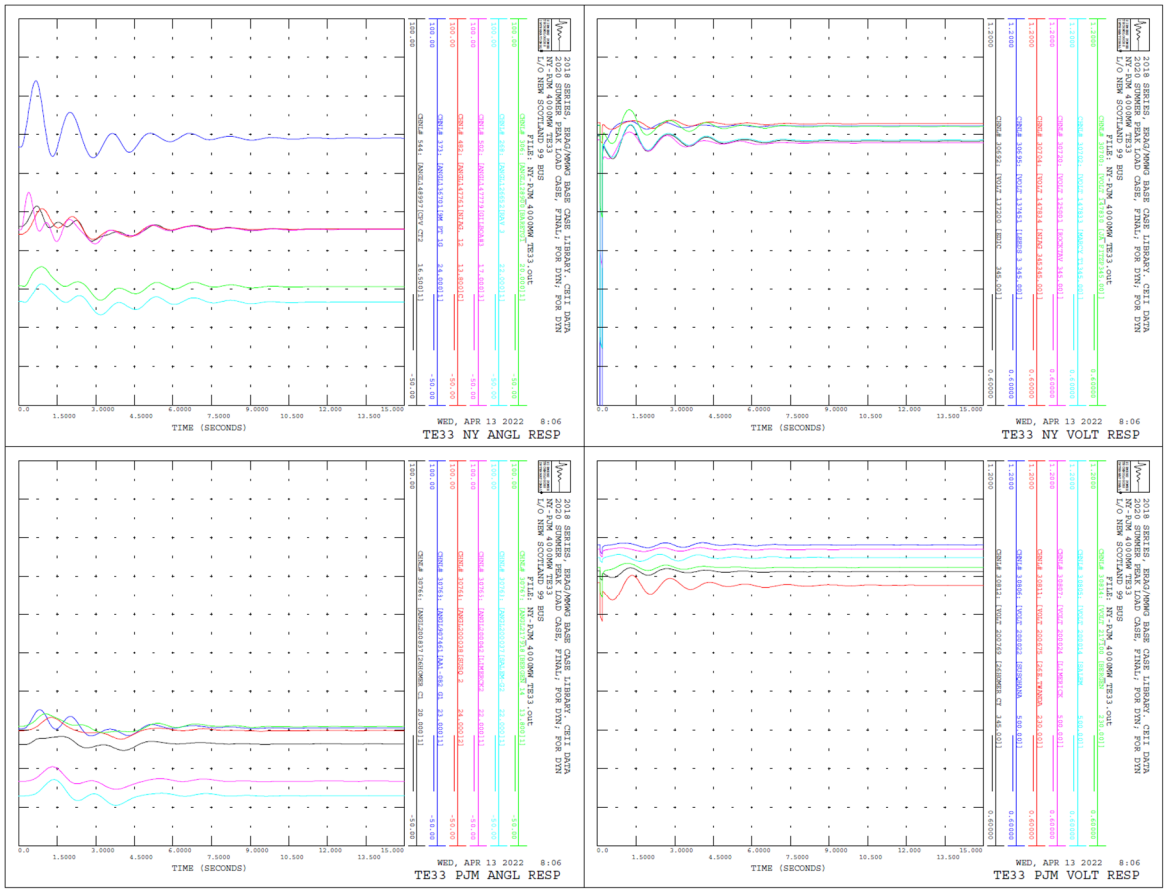


**Figure 44: NY-PJM 4000 MW Contingency TE33 Angle/Voltage Response Plots**

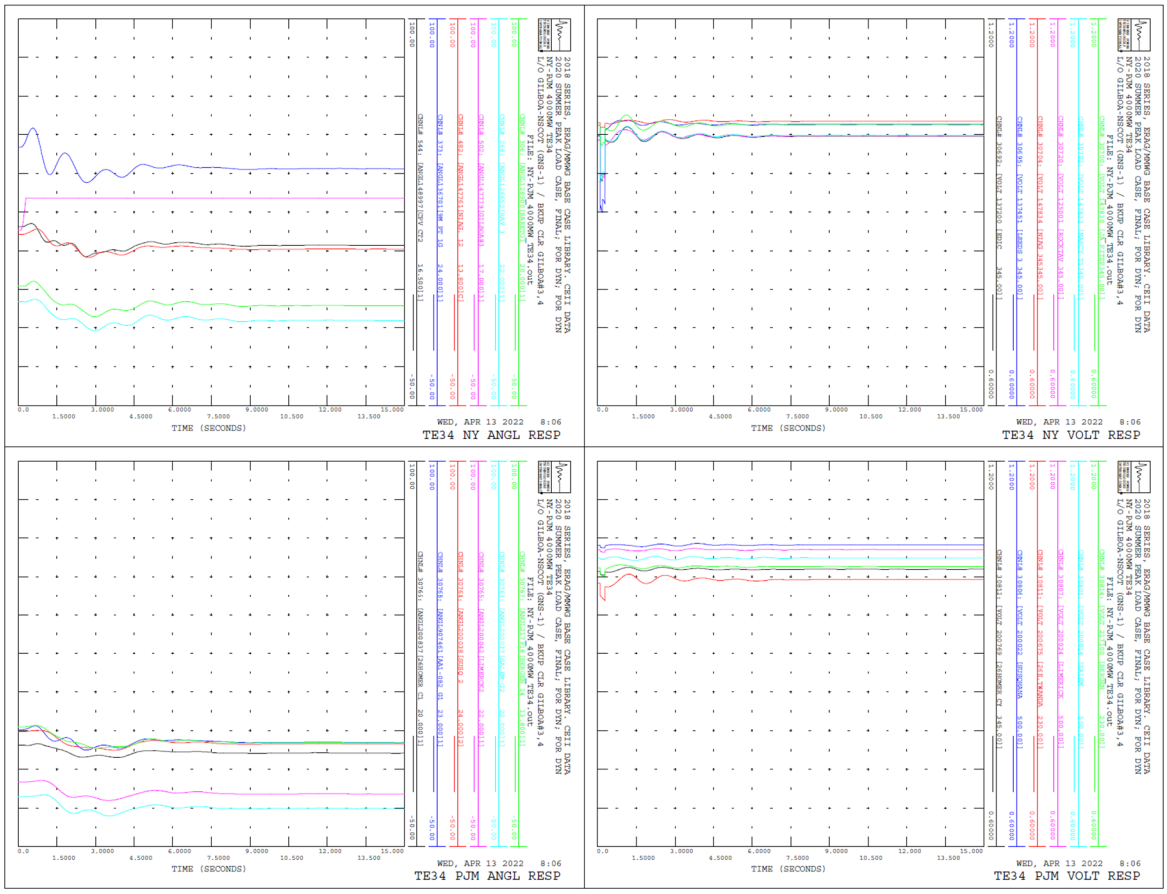


**Figure 45: NY-PJM 4000 MW Contingency TE34 Angle/Voltage Response Plots**

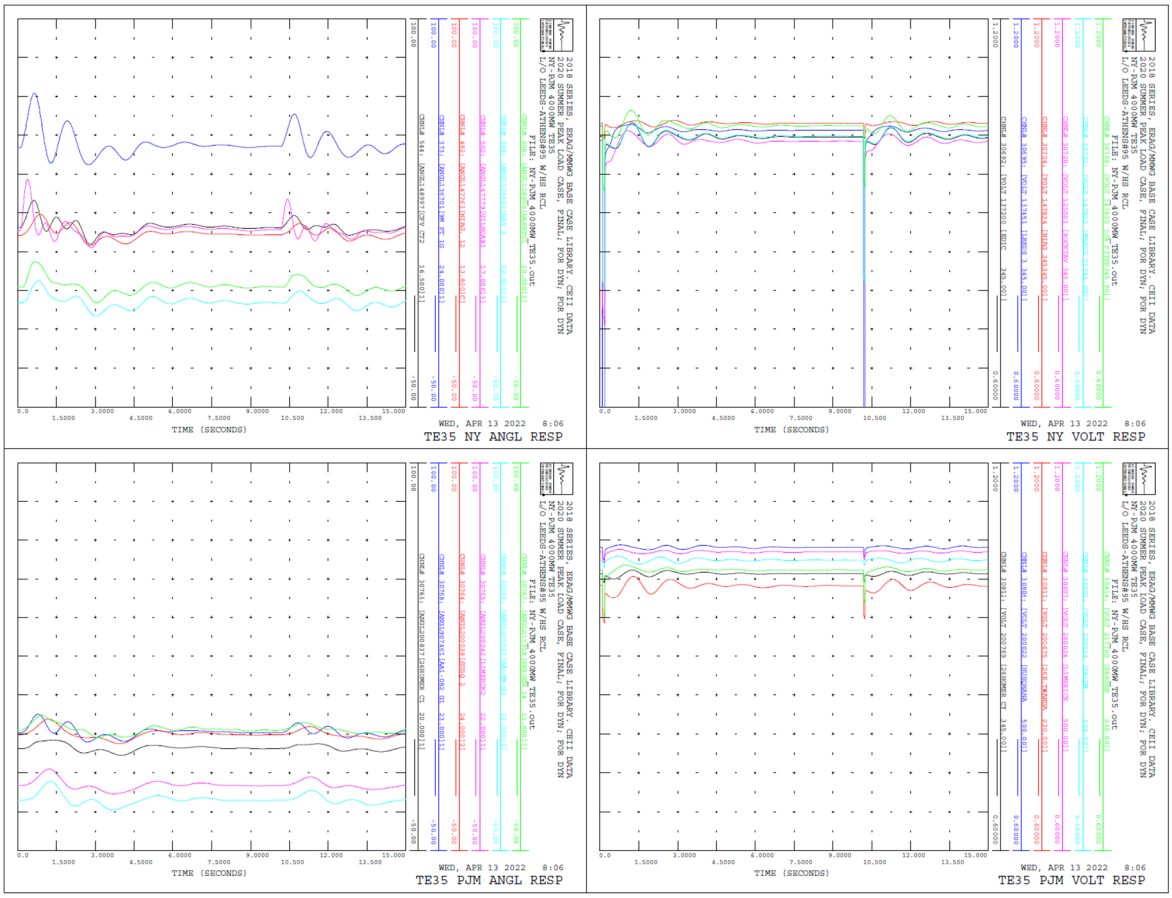


**Figure 46: NY-PJM 4000 MW Contingency TE35 Angle/Voltage Response Plots**

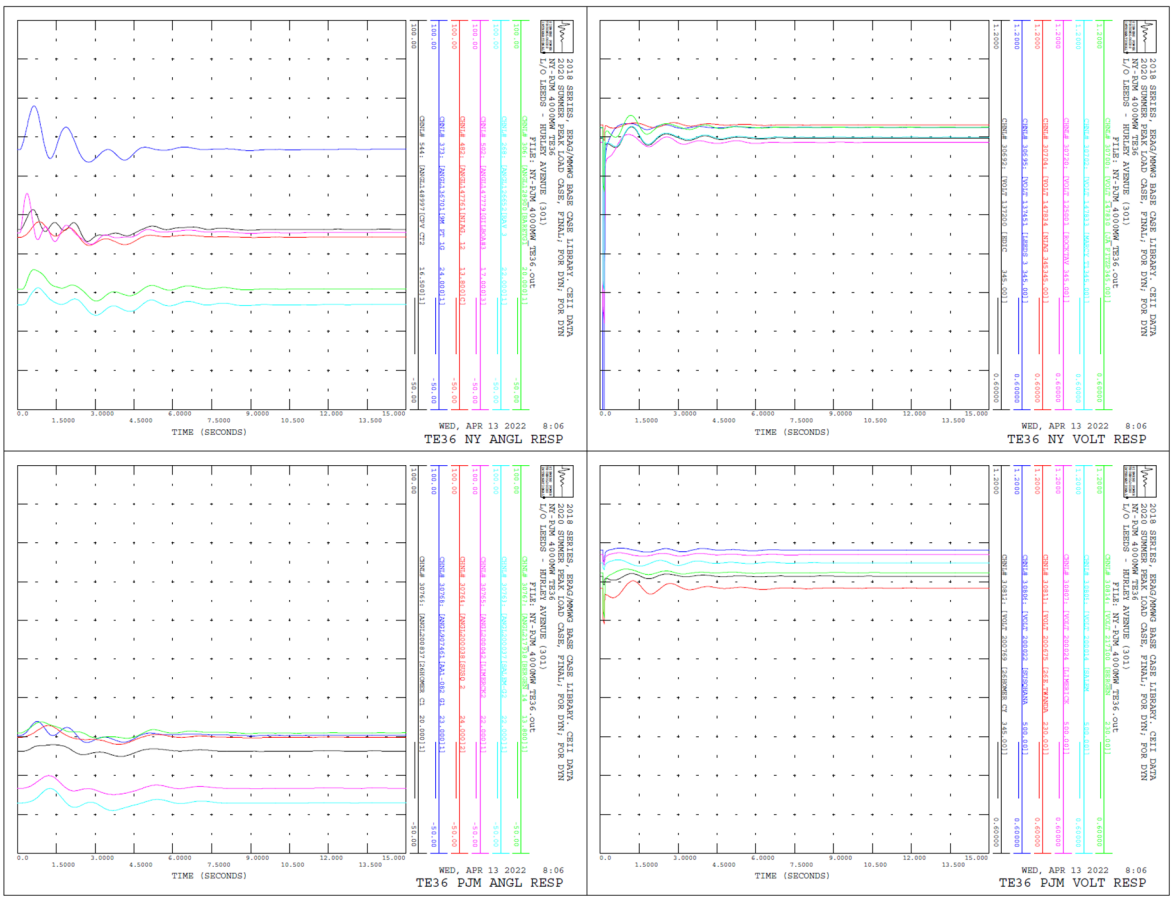


**Figure 47: NY-PJM 4000 MW Contingency TE36 Angle/Voltage Response Plots**

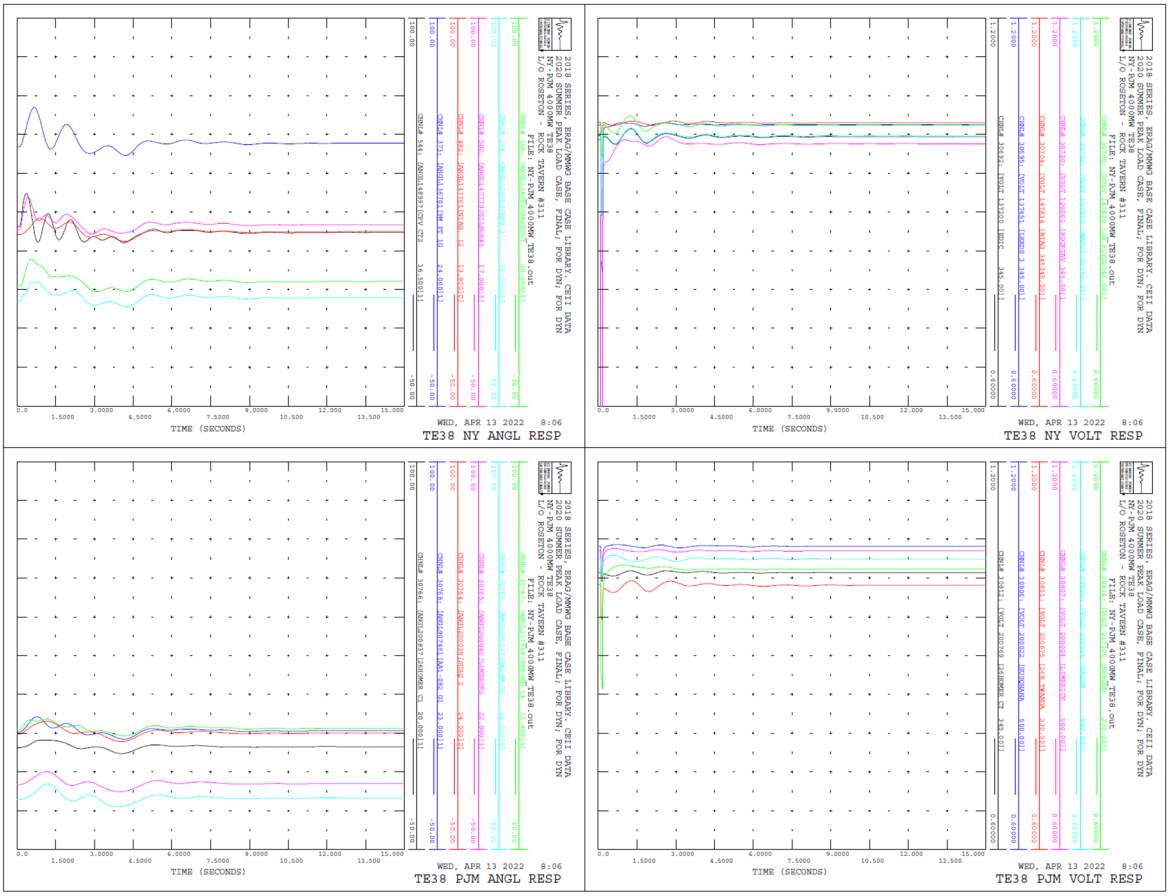


**Figure 48: NY-PJM 4000 MW Contingency TE38 Angle/Voltage Response Plots**

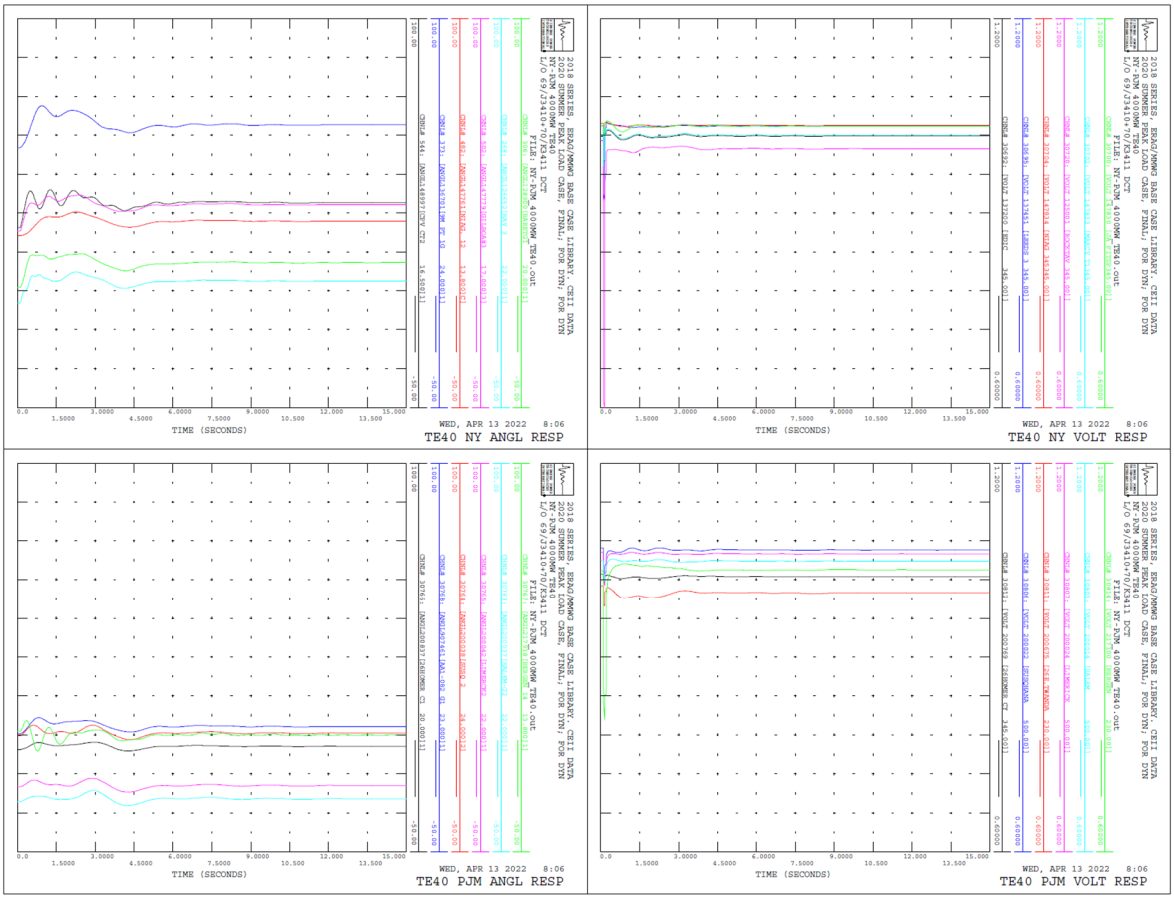


**Figure 49: NY-PJM 4000 MW Contingency TE40 Angle/Voltage Response Plots**

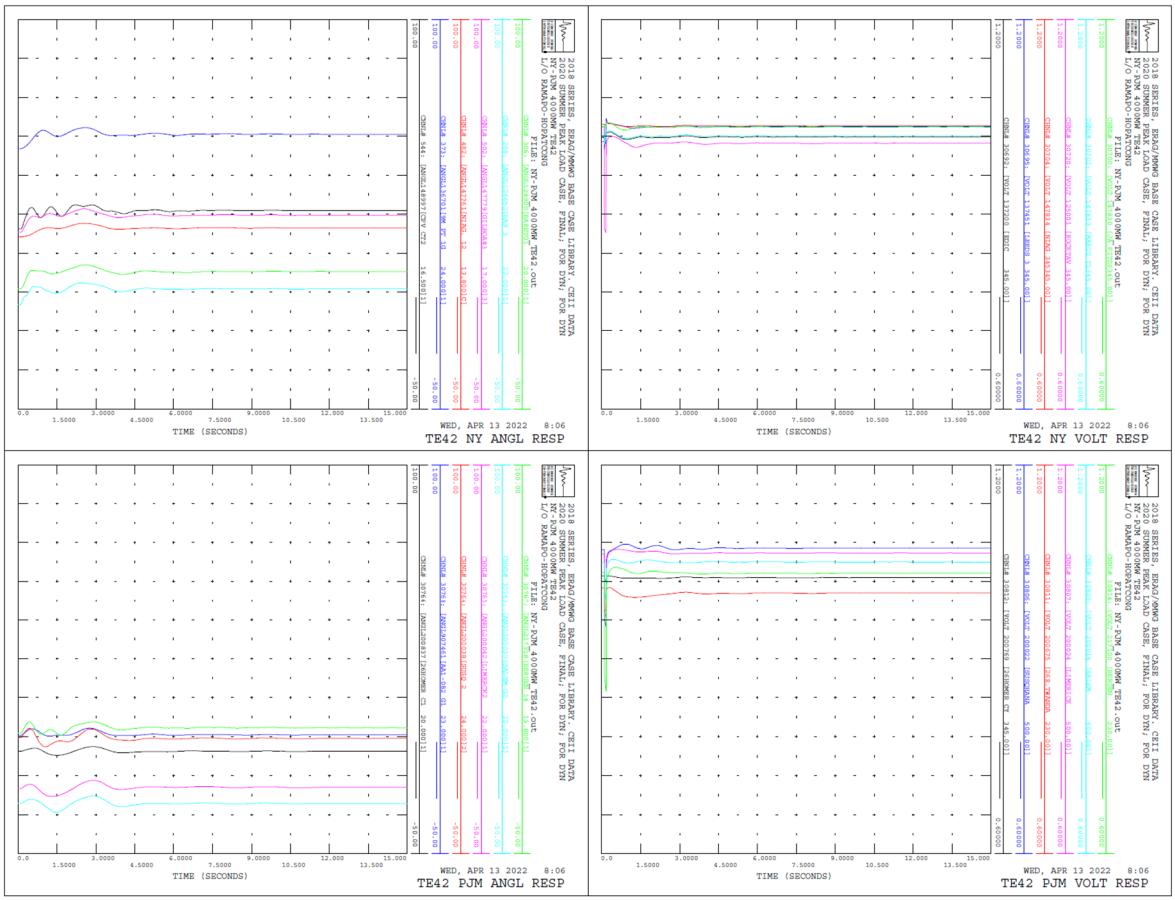


**Figure 50: NY-PJM 4000 MW Contingency TE42 Angle/Voltage Response Plots**

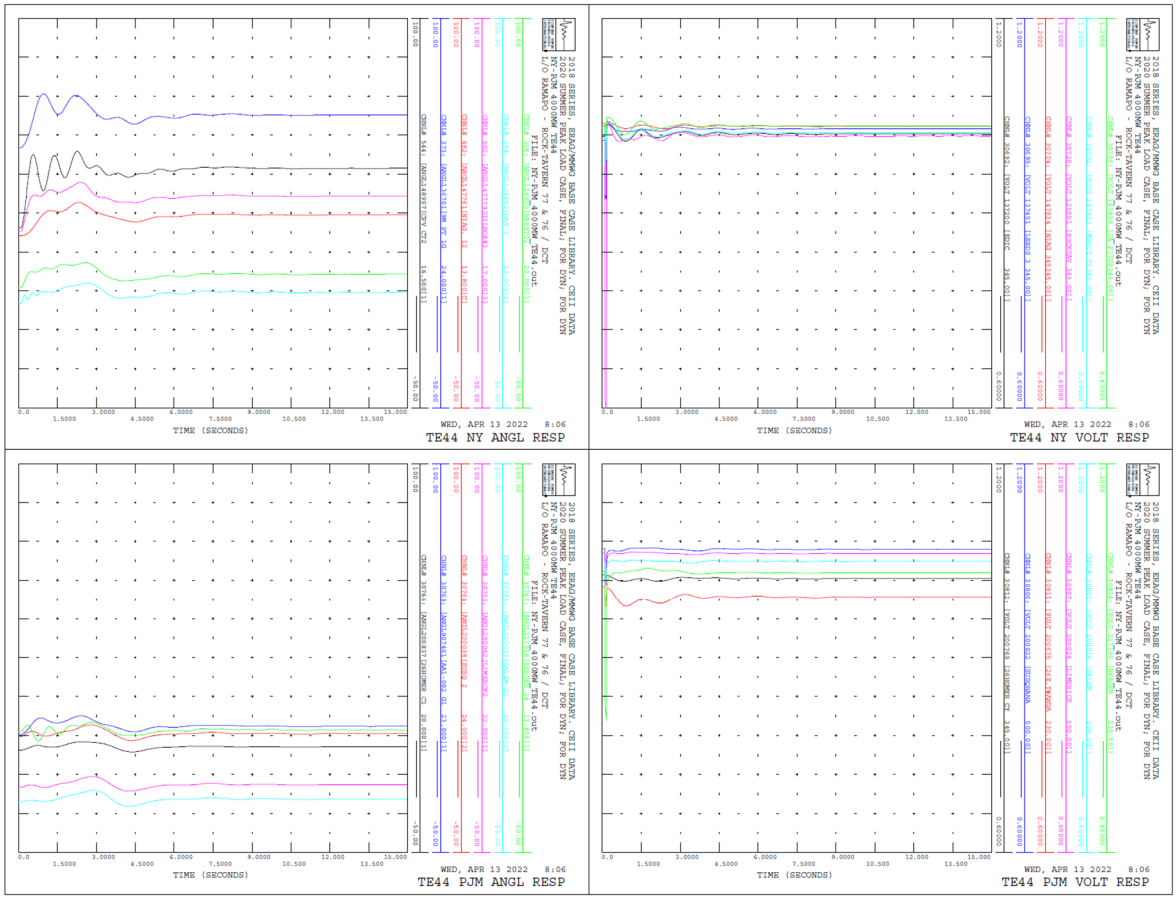


**Figure 51: NY-PJM 4000 MW Contingency TE44 Angle/Voltage Response Plots**

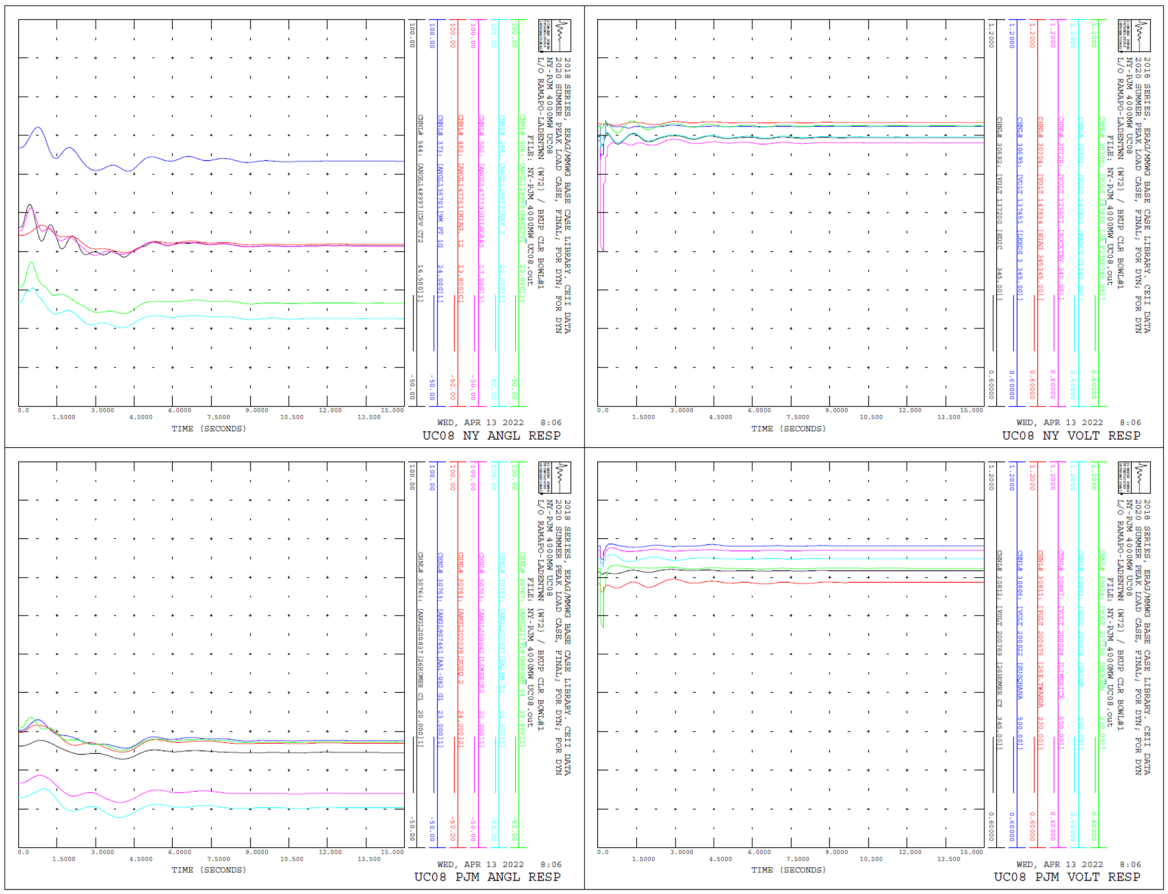


**Figure 52: NY-PJM 4000 MW Contingency UC08 Angle/Voltage Response Plots**

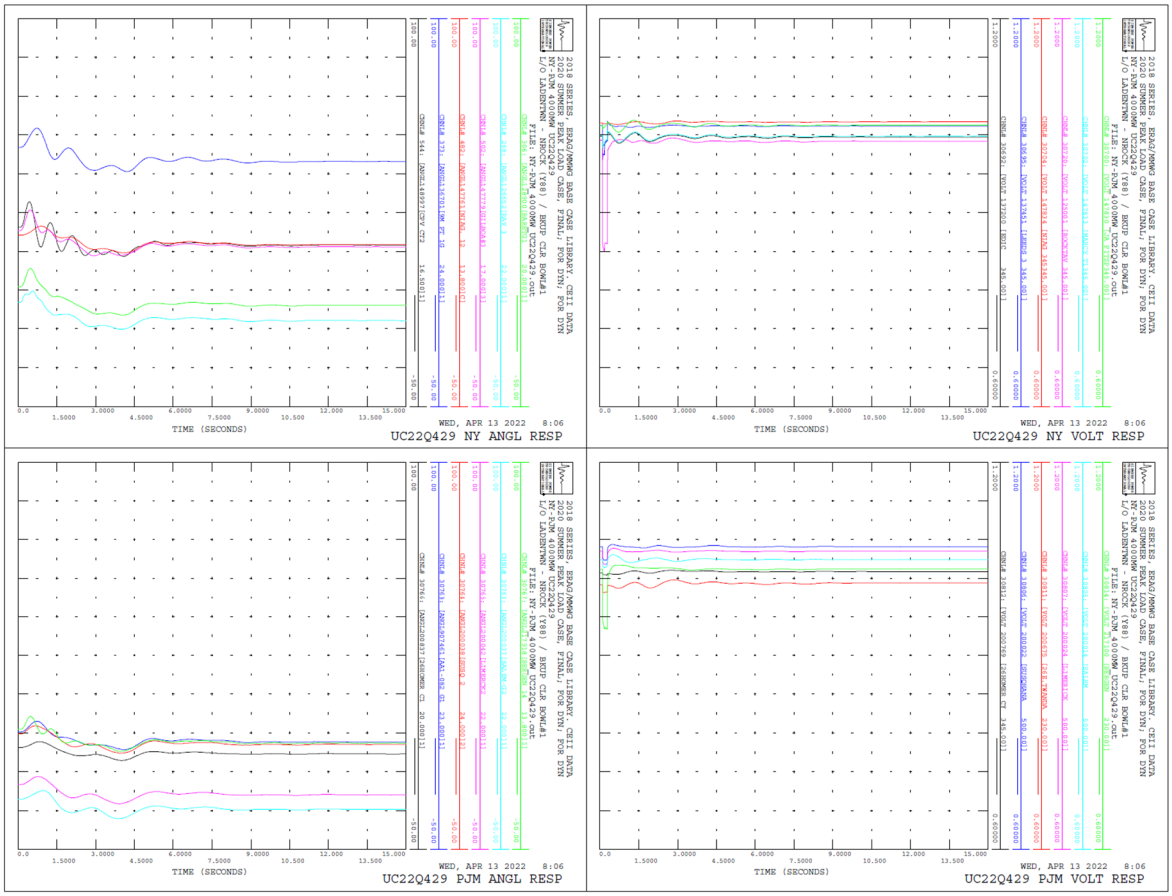


**Figure 53: NY-PJM 4000 MW Contingency UC22Q429 Angle/Voltage Response Plots**

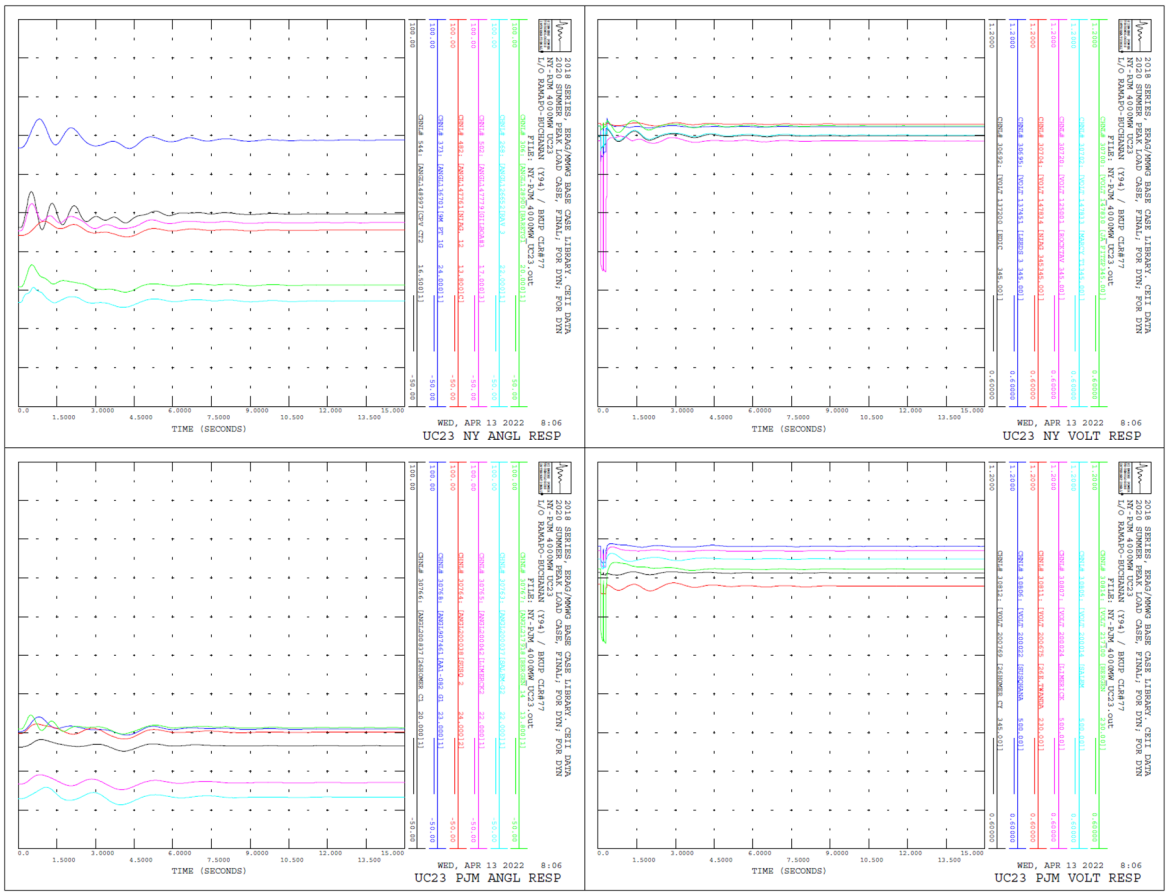


**Figure 54: NY-PJM 4000 MW Contingency UC23 Angle/Voltage Response Plots**

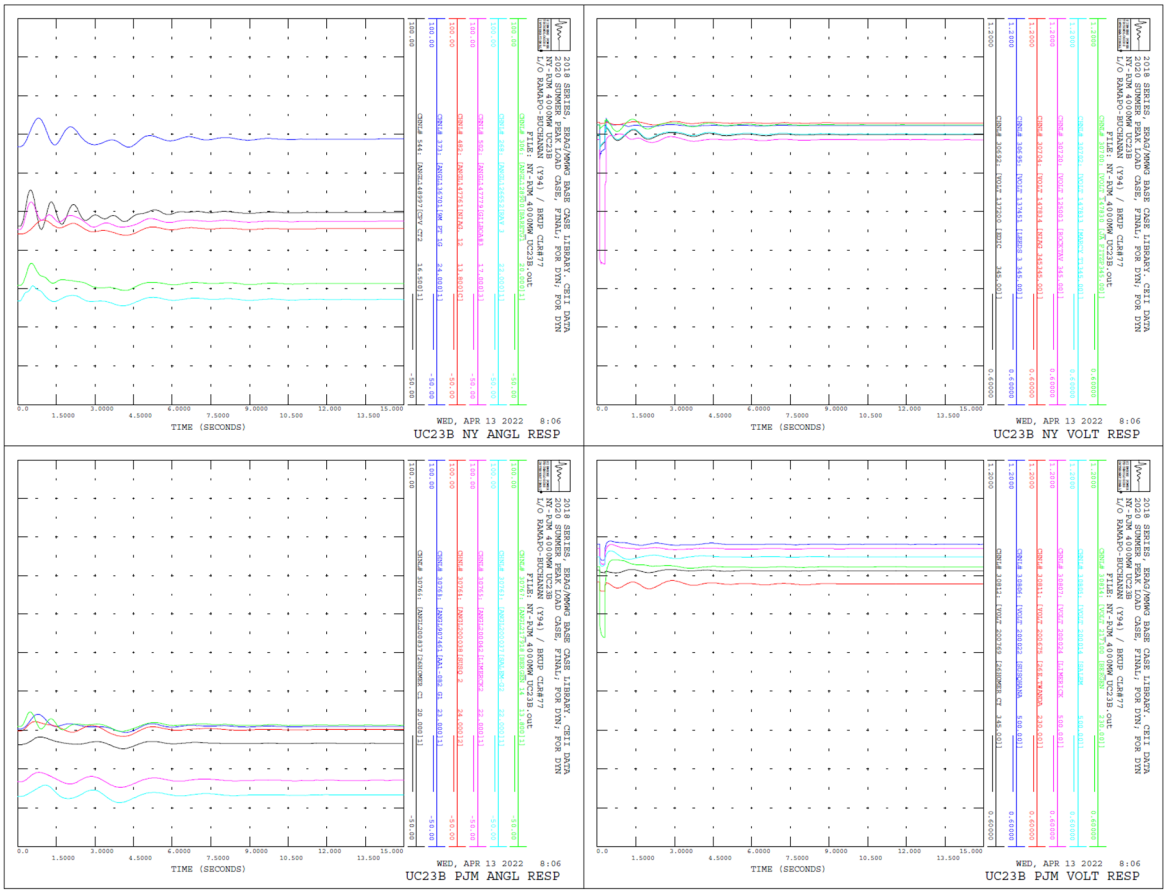


**Figure 55: NY-PJM 4000 MW Contingency UC23B Angle/Voltage Response Plots**

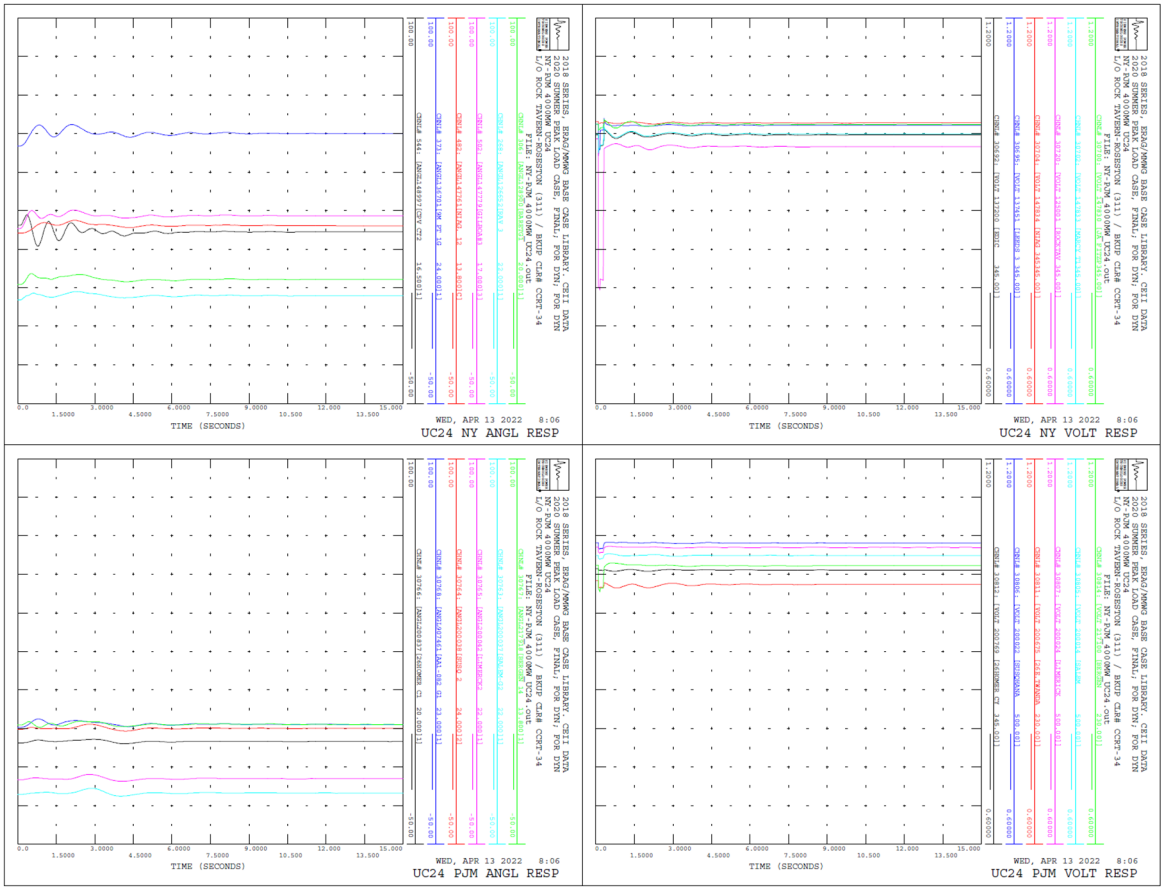


**Figure 56: NY-PJM 4000 MW Contingency UC24 Angle/Voltage Response Plots**

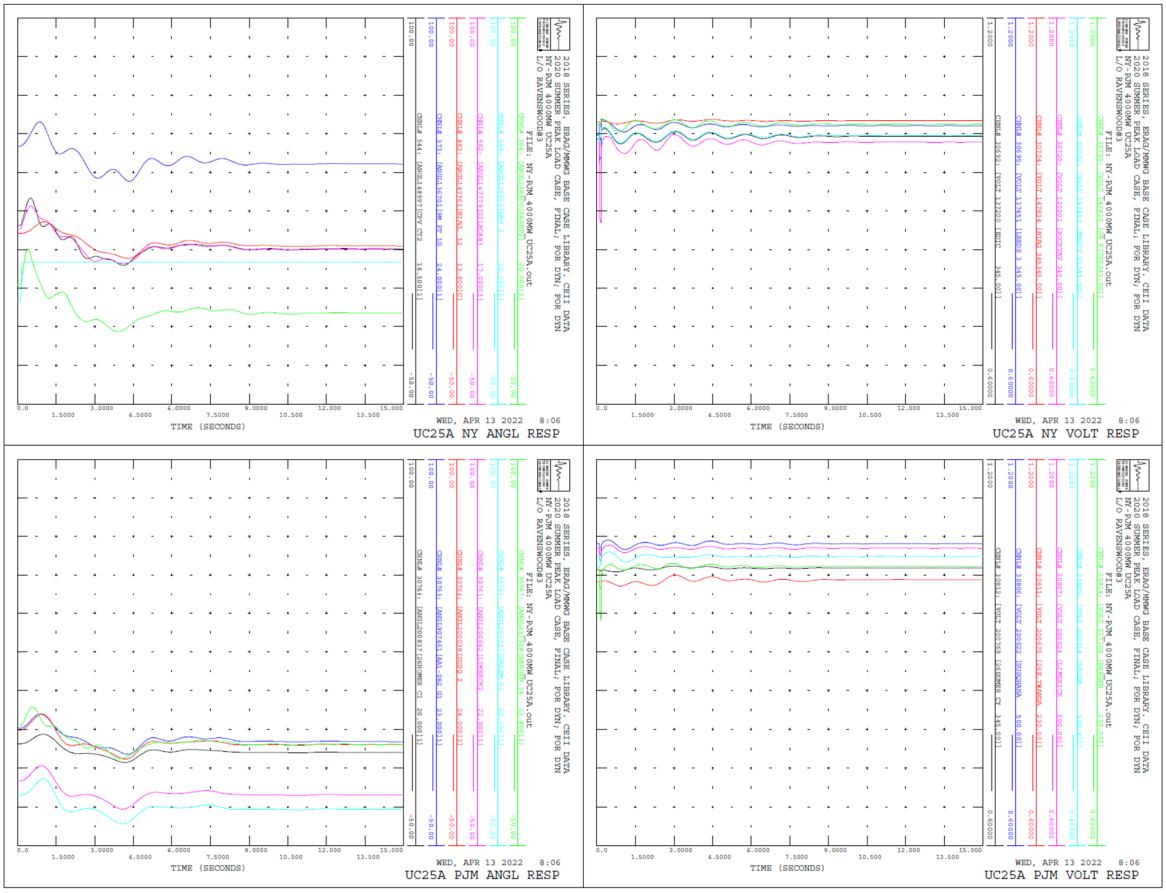


**Figure 57: NY-PJM 4000 MW Contingency UC25A Angle/Voltage Response Plots**

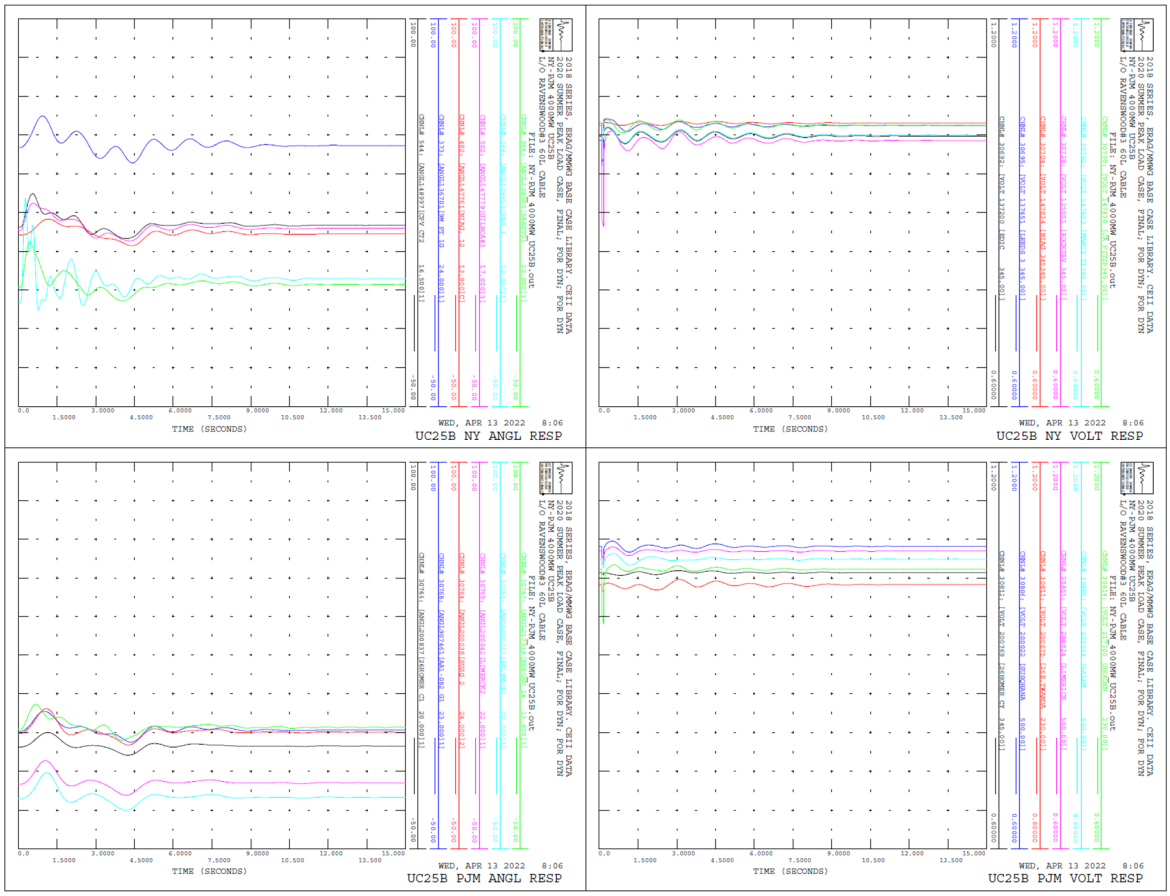


**Figure 58: NY-PJM 4000 MW Contingency UC25B Angle/Voltage Response Plots**

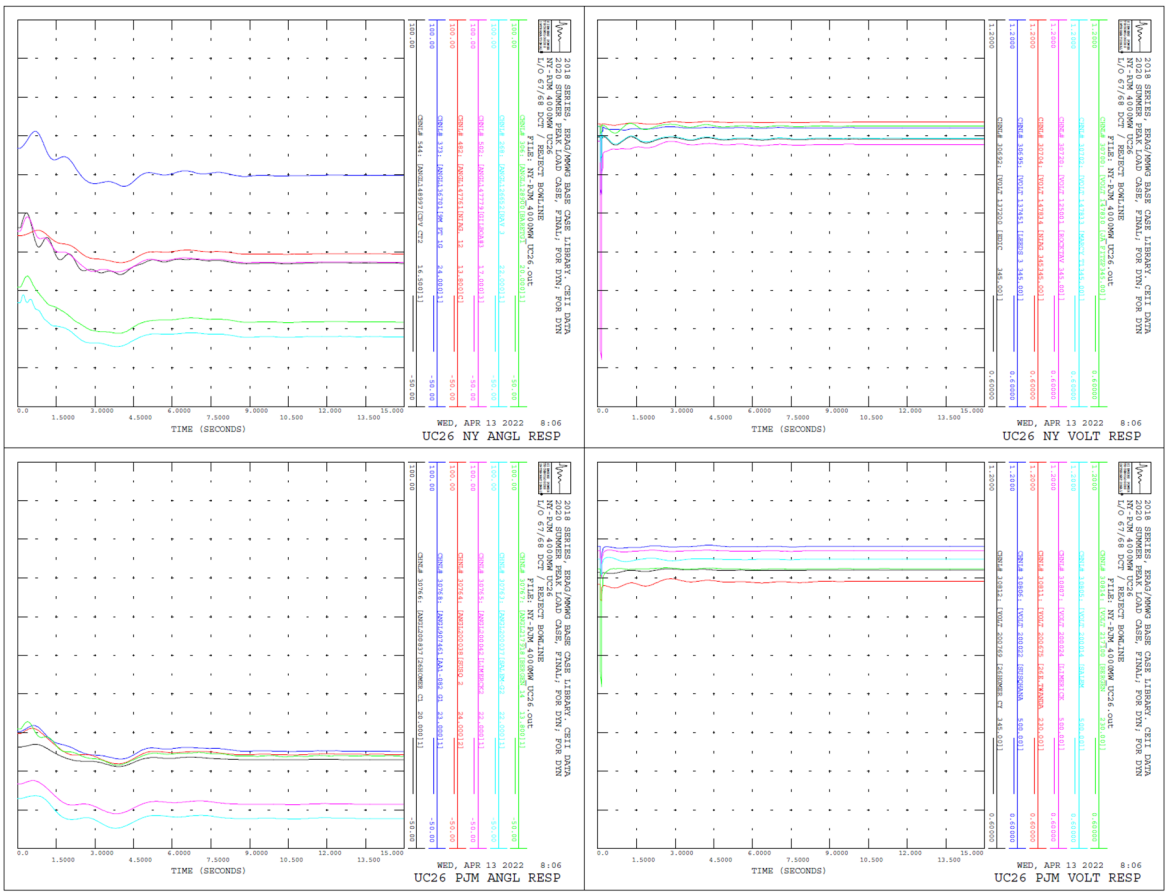


**Figure 59: NY-PJM 4000 MW Contingency UC26 Angle/Voltage Response Plots**

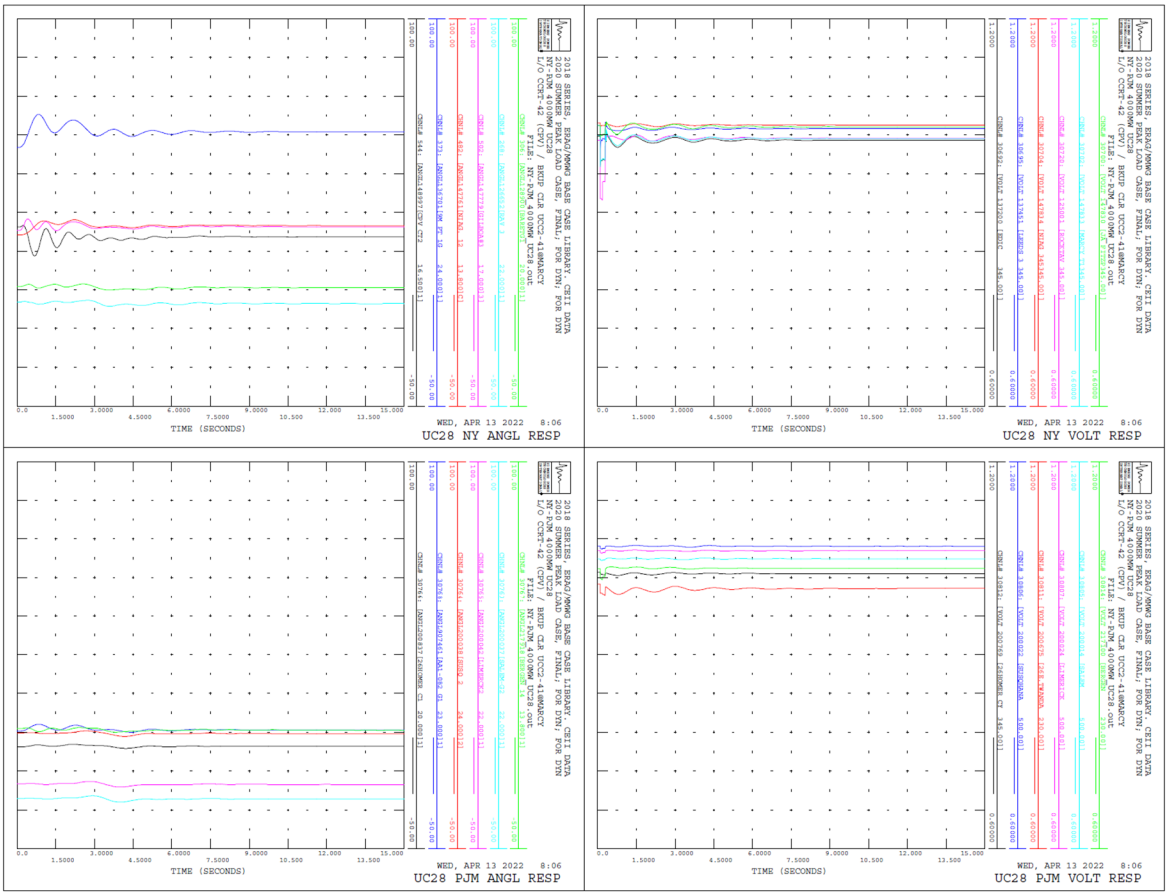


**Figure 60: NY-PJM 4000 MW Contingency UC28 Angle/Voltage Response Plots**

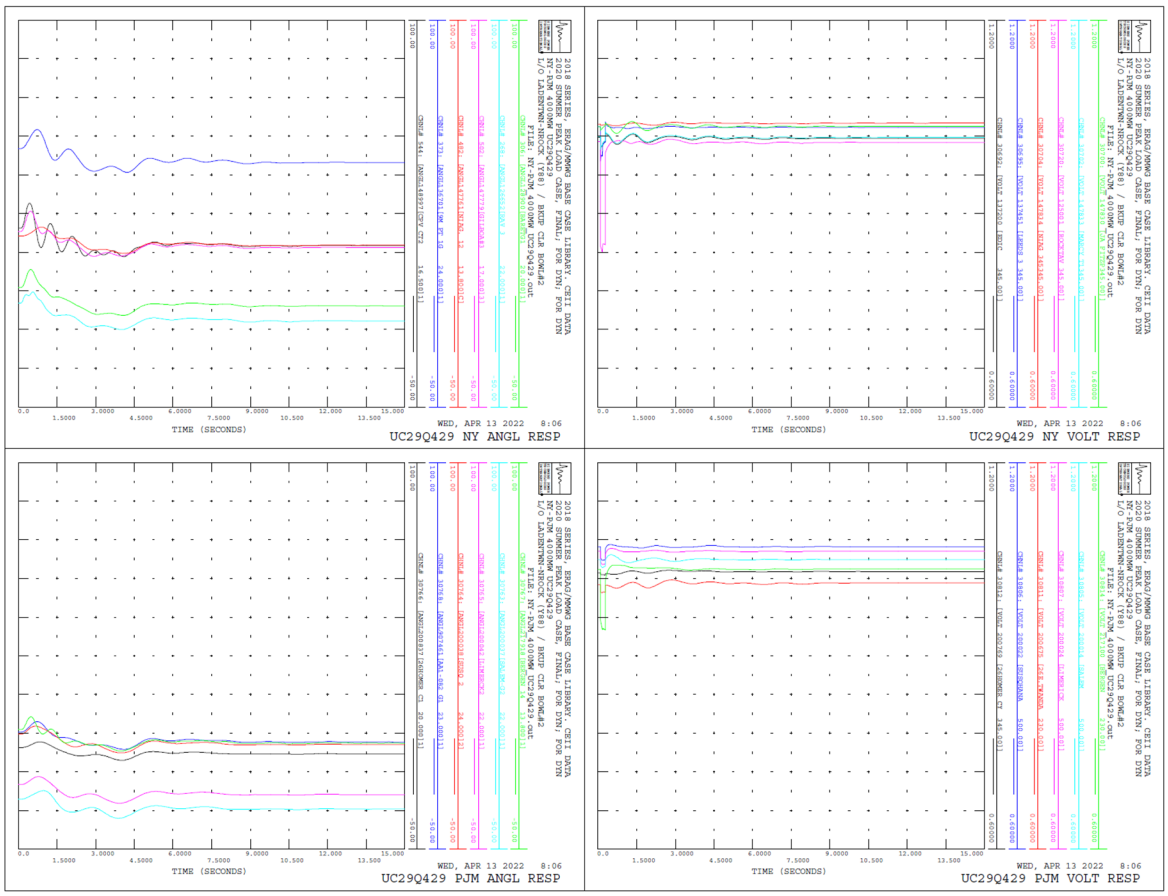


**Figure 61: NY-PJM 4000 MW Contingency UC29Q429 Angle/Voltage Response Plots**

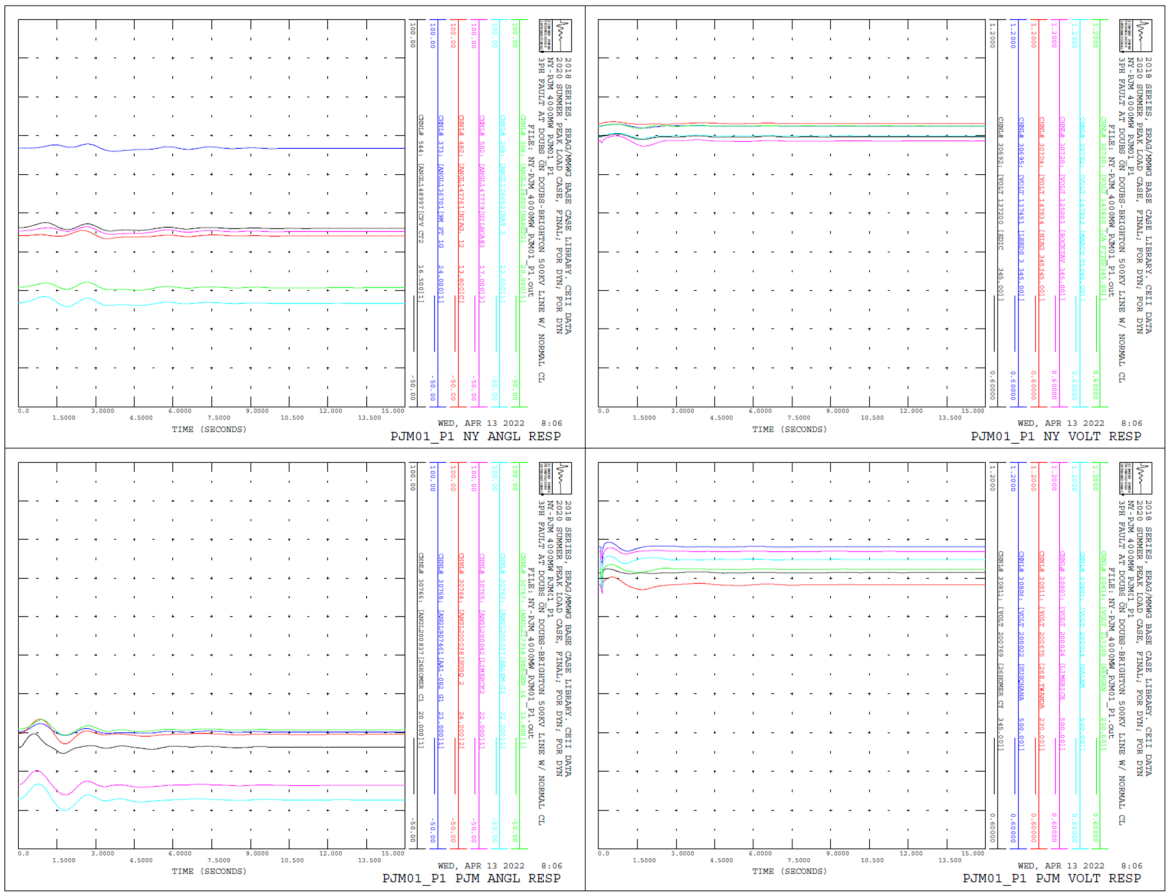


**Figure 62: NY-PJM 4000 MW Contingency PJM01_P1 Angle/Voltage Response Plots**

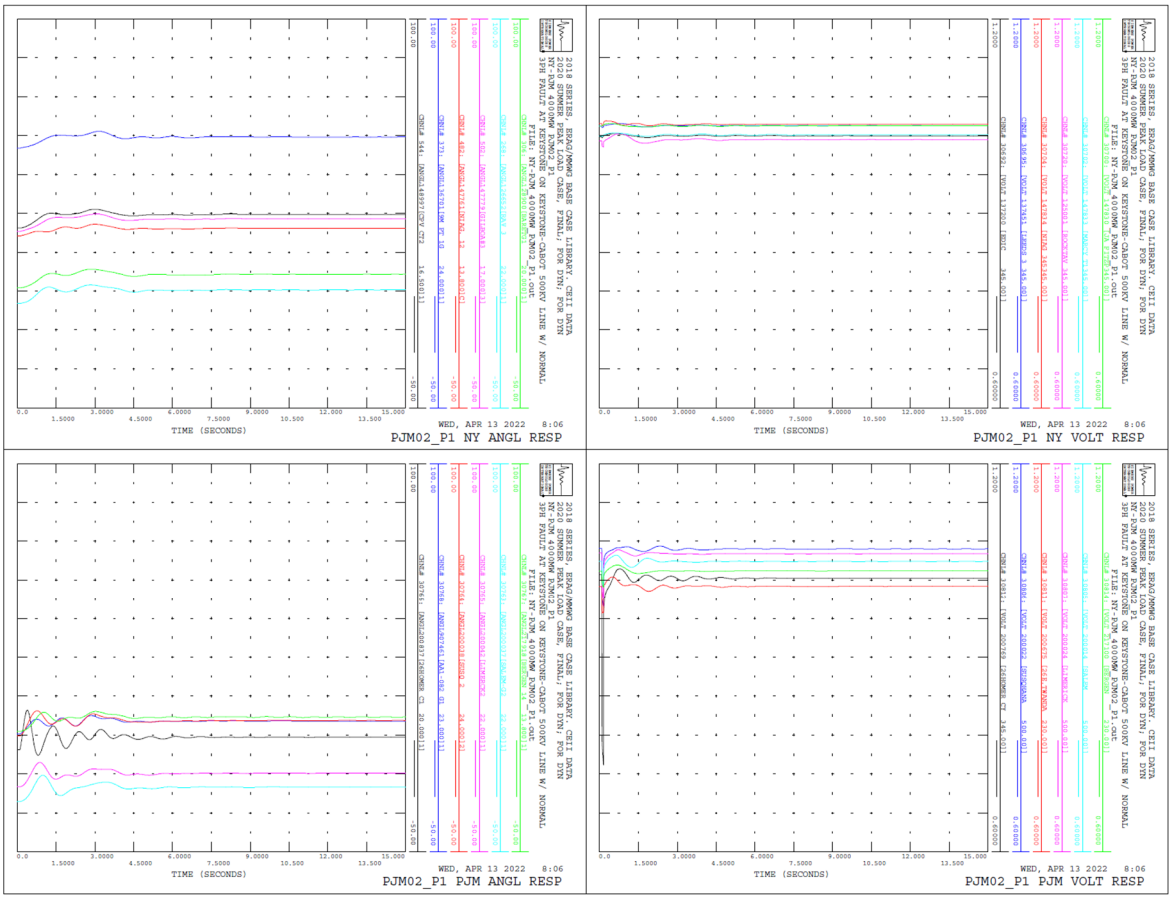


**Figure 63: NY-PJM 4000 MW Contingency PJM02_P1 Angle/Voltage Response Plots**

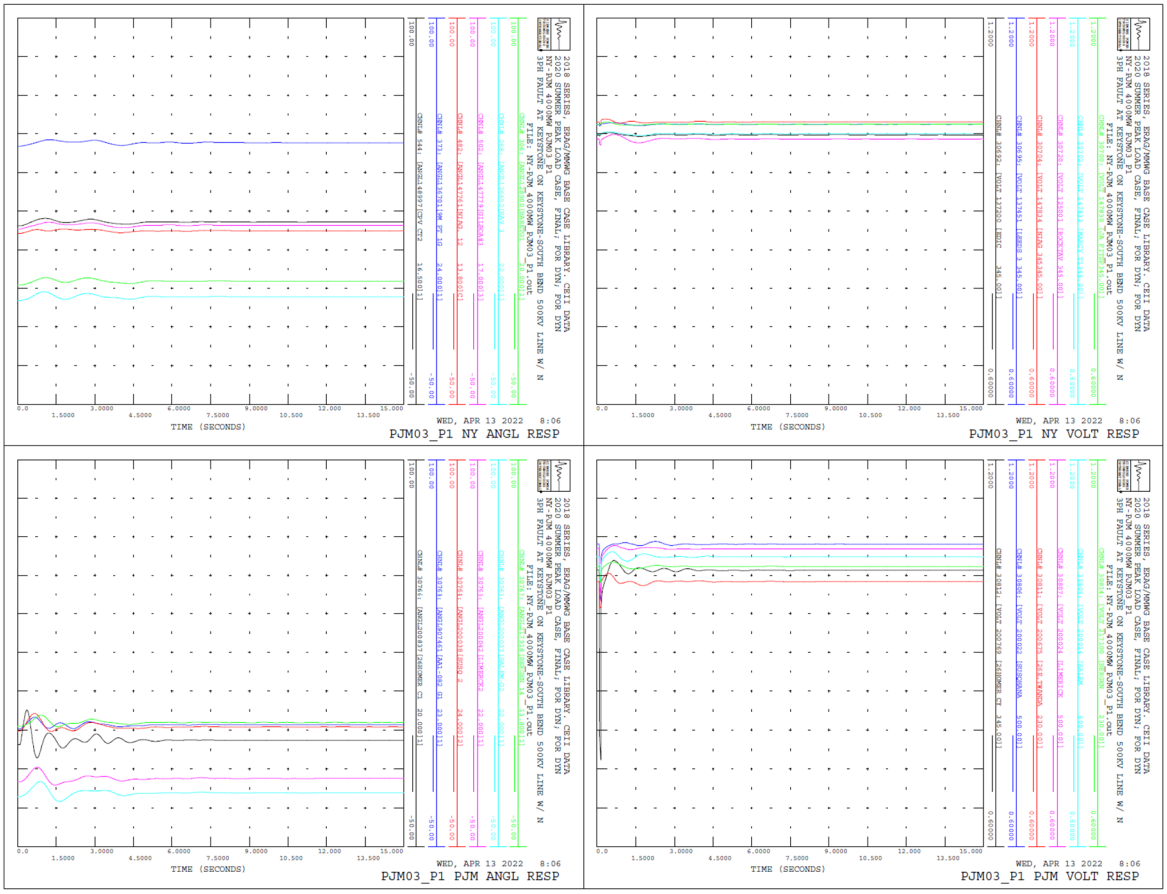


**Figure 64: NY-PJM 4000 MW Contingency PJM03_P1 Angle/Voltage Response Plots**

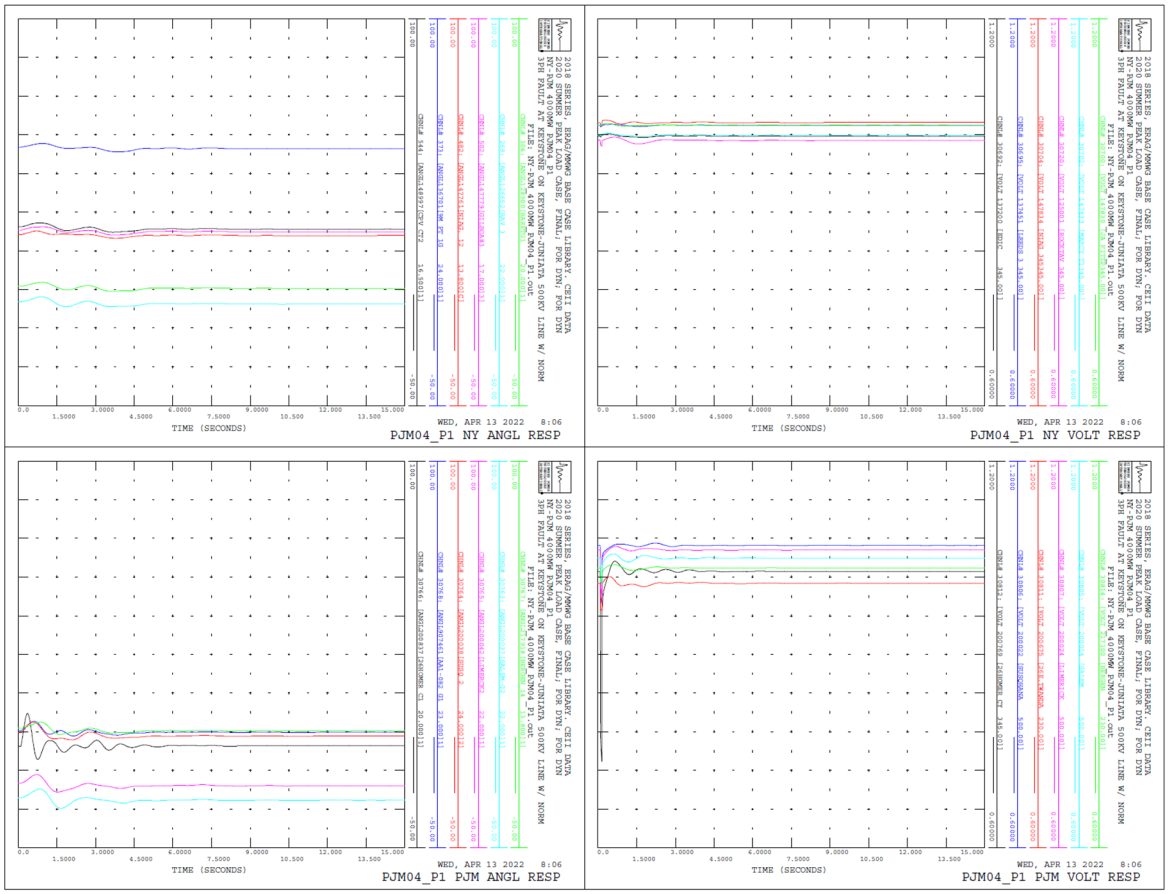


**Figure 65: NY-PJM 4000 MW Contingency PJM04_P1 Angle/Voltage Response Plots**

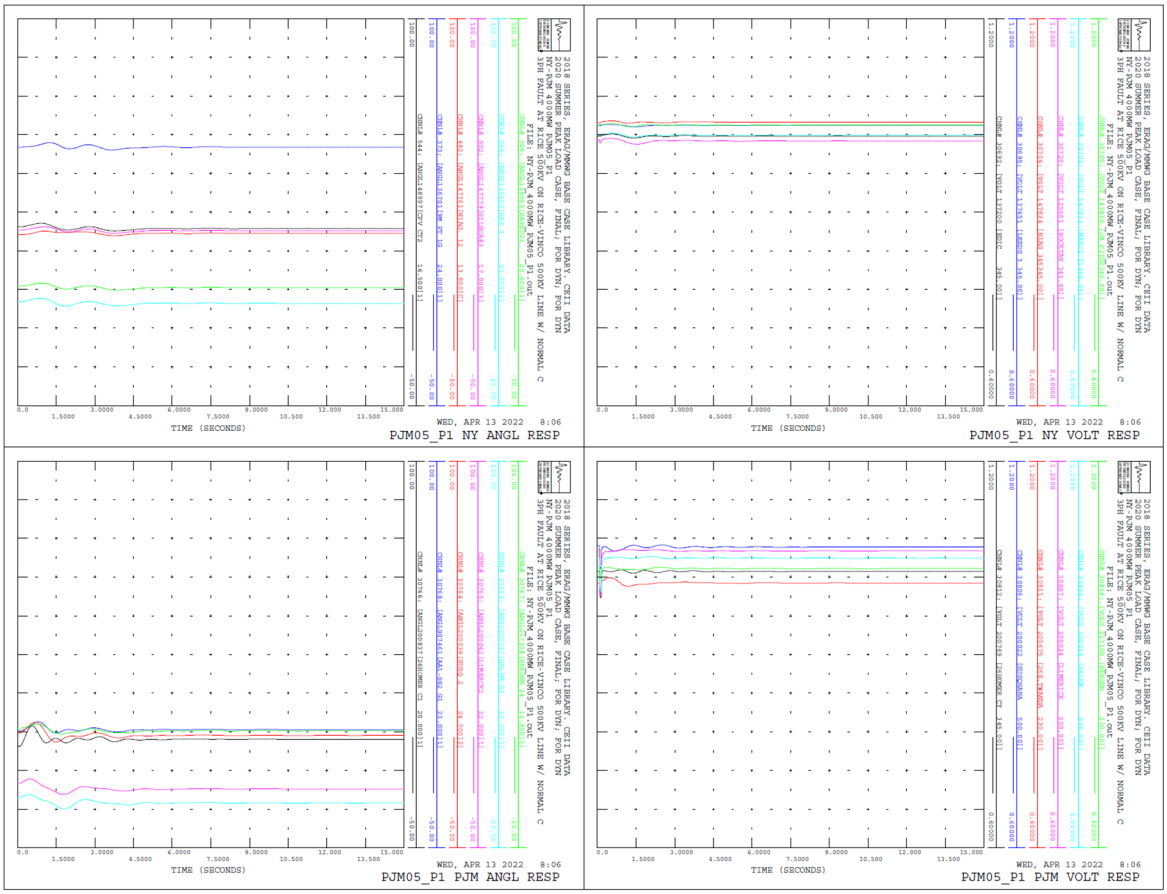


**Figure 66: NY-PJM 4000 MW Contingency PJM05_P1 Angle/Voltage Response Plots**

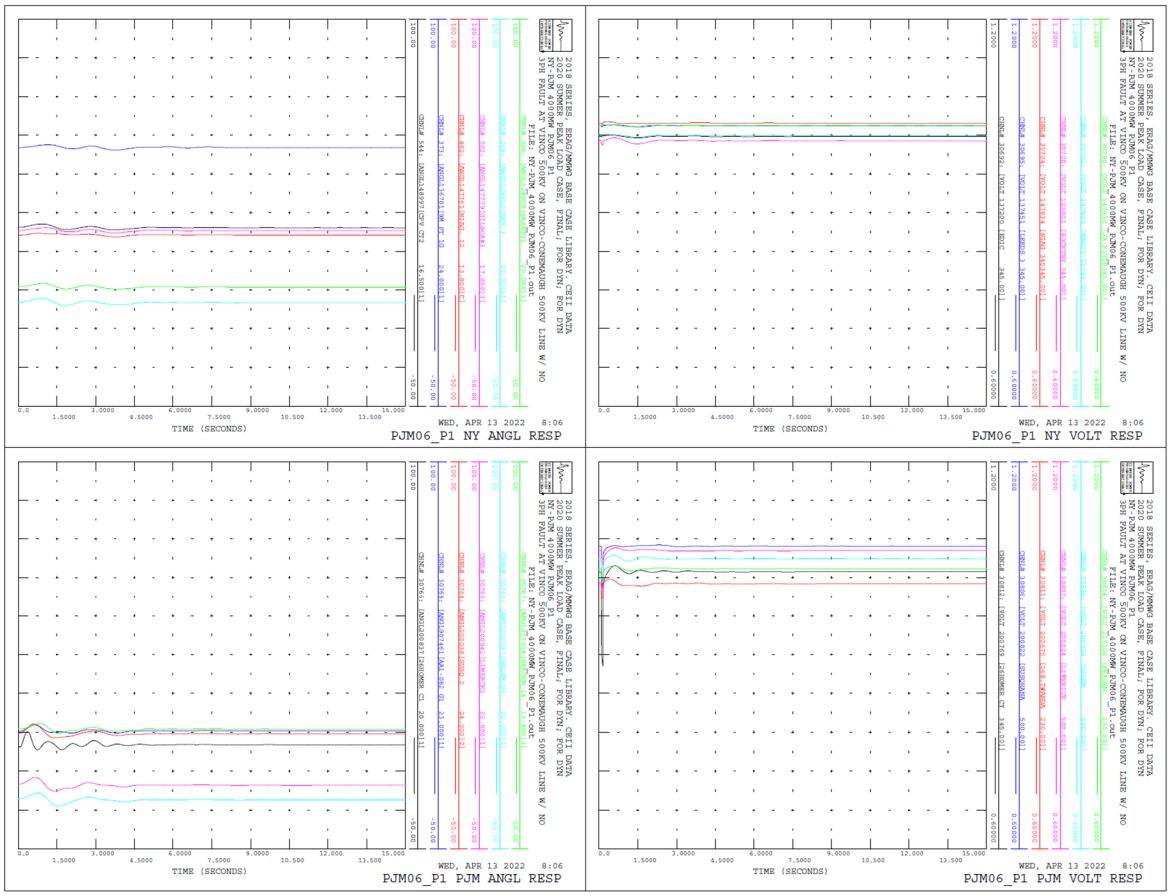


**Figure 67: NY-PJM 4000 MW Contingency PJM06_P1 Angle/Voltage Response Plots**

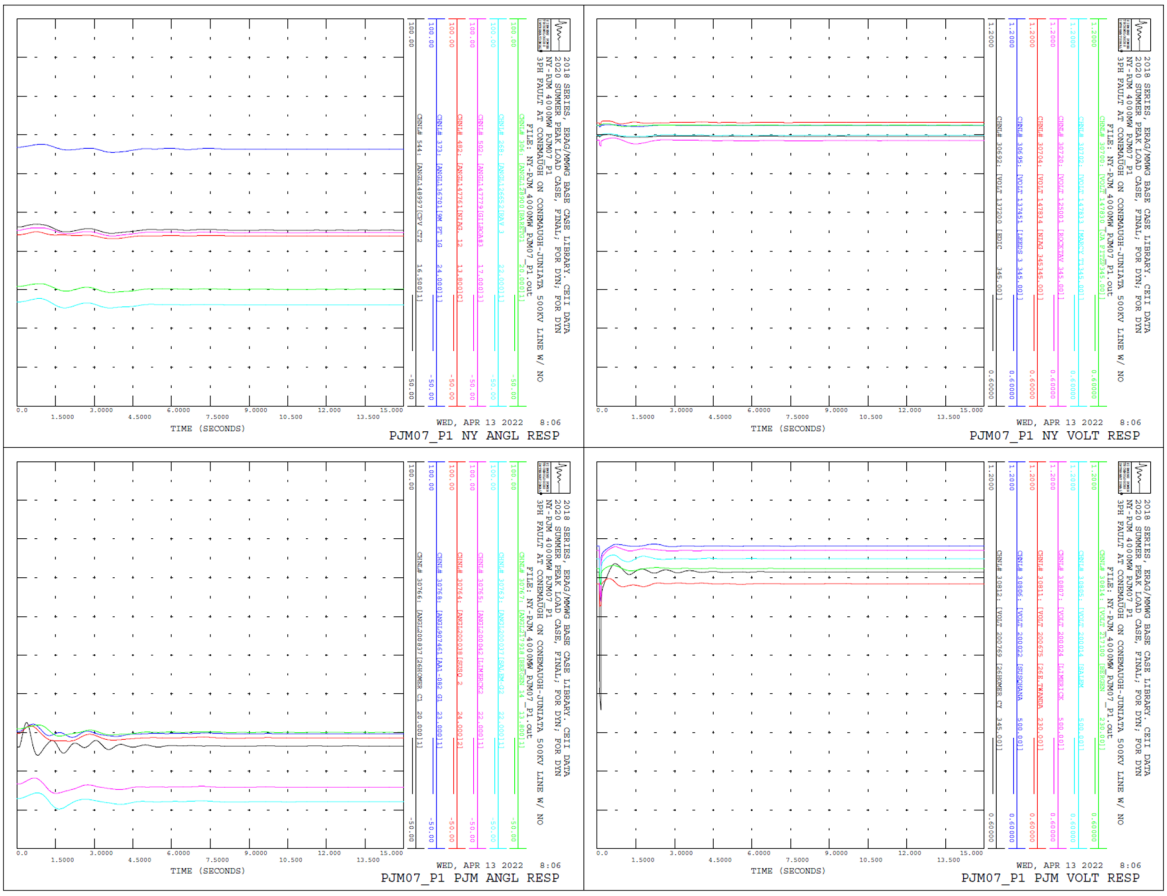


**Figure 68: NY-PJM 4000 MW Contingency PJM07_P1 Angle/Voltage Response Plots**

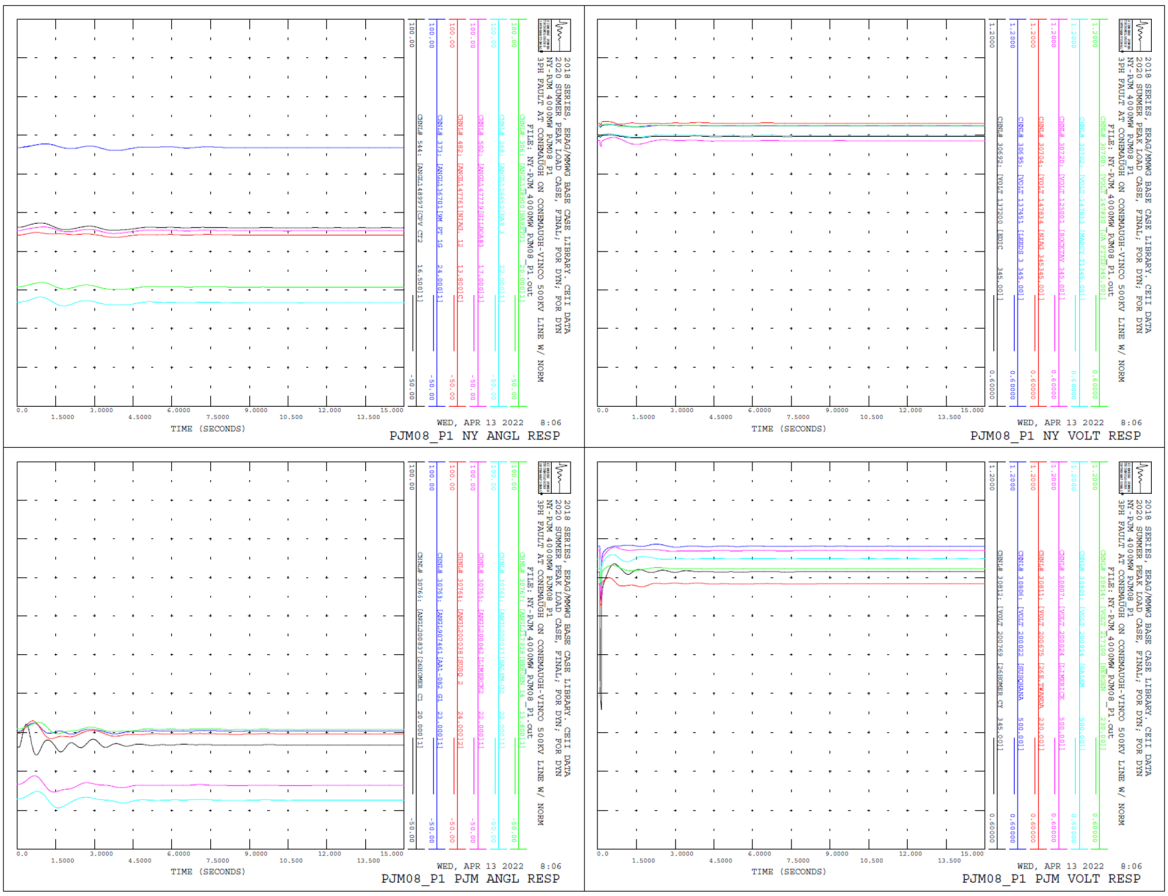


**Figure 69: NY-PJM 4000 MW Contingency PJM08_P1 Angle/Voltage Response Plots**

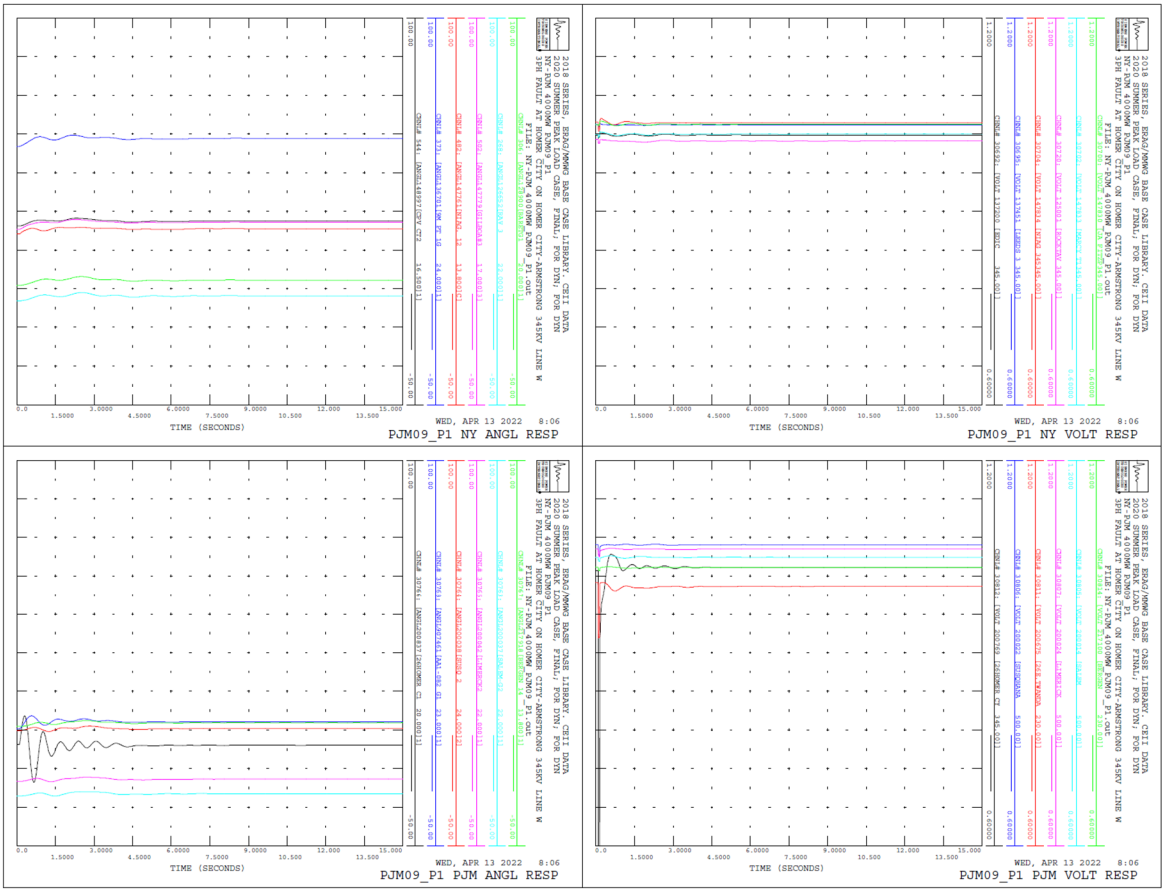


**Figure 70: NY-PJM 4000 MW Contingency PJM09_P1 Angle/Voltage Response Plots**

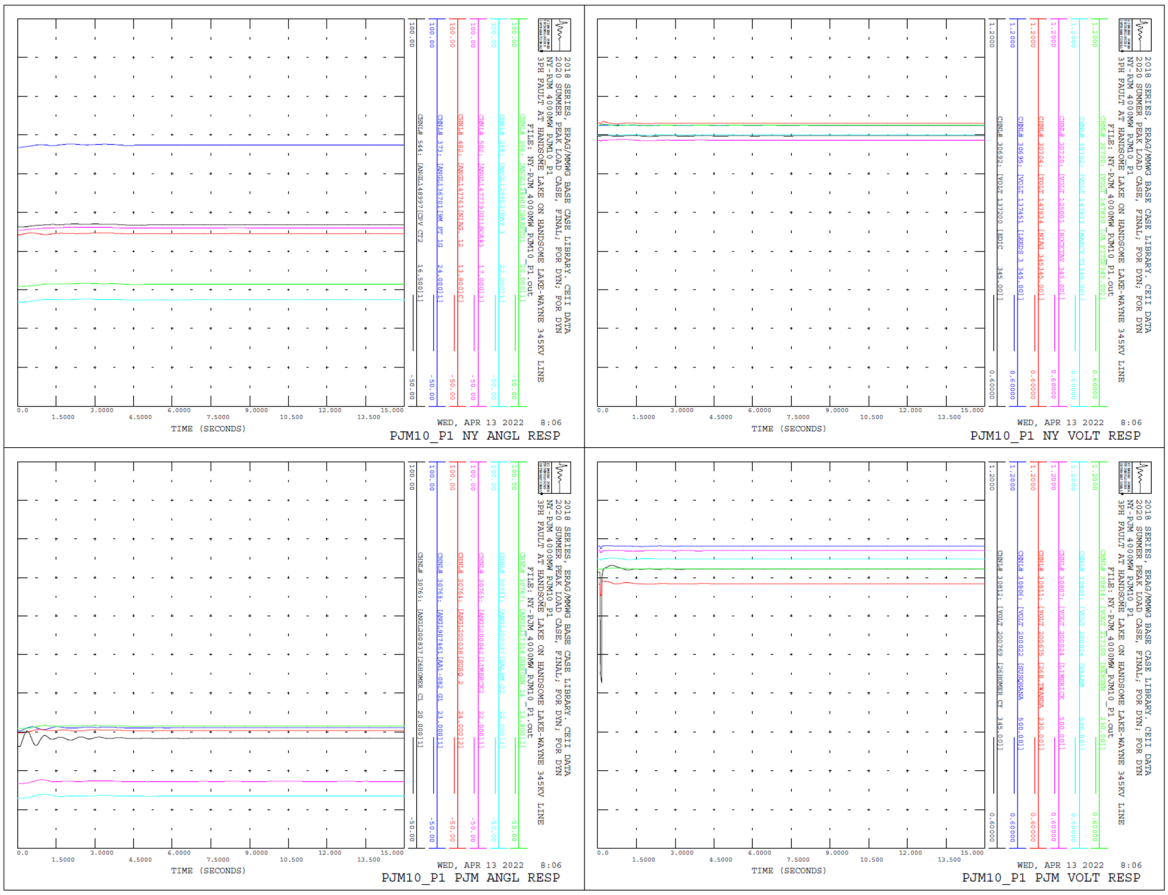


**Figure 71: NY-PJM 4000 MW Contingency PJM10_P1 Angle/Voltage Response Plots**

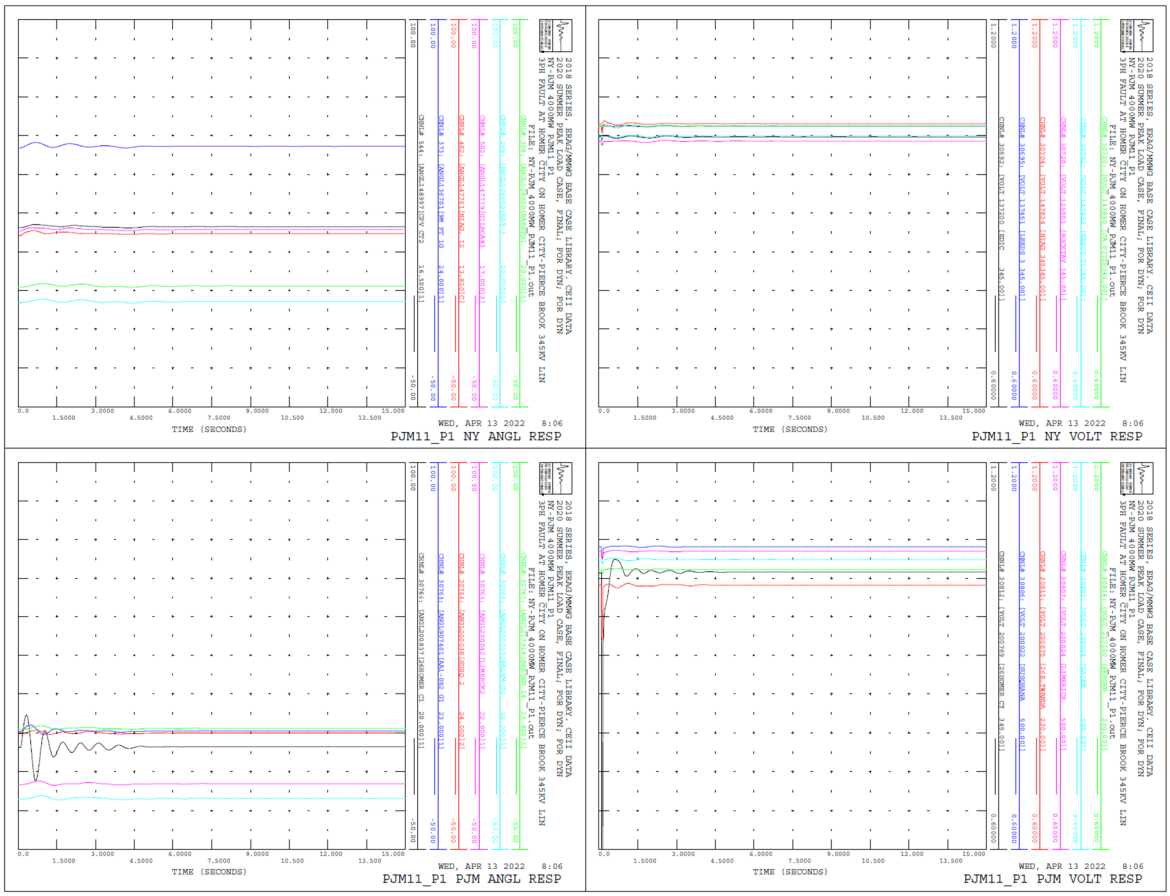


**Figure 72: NY-PJM 4000 MW Contingency PJM11_P1 Angle/Voltage Response Plots**

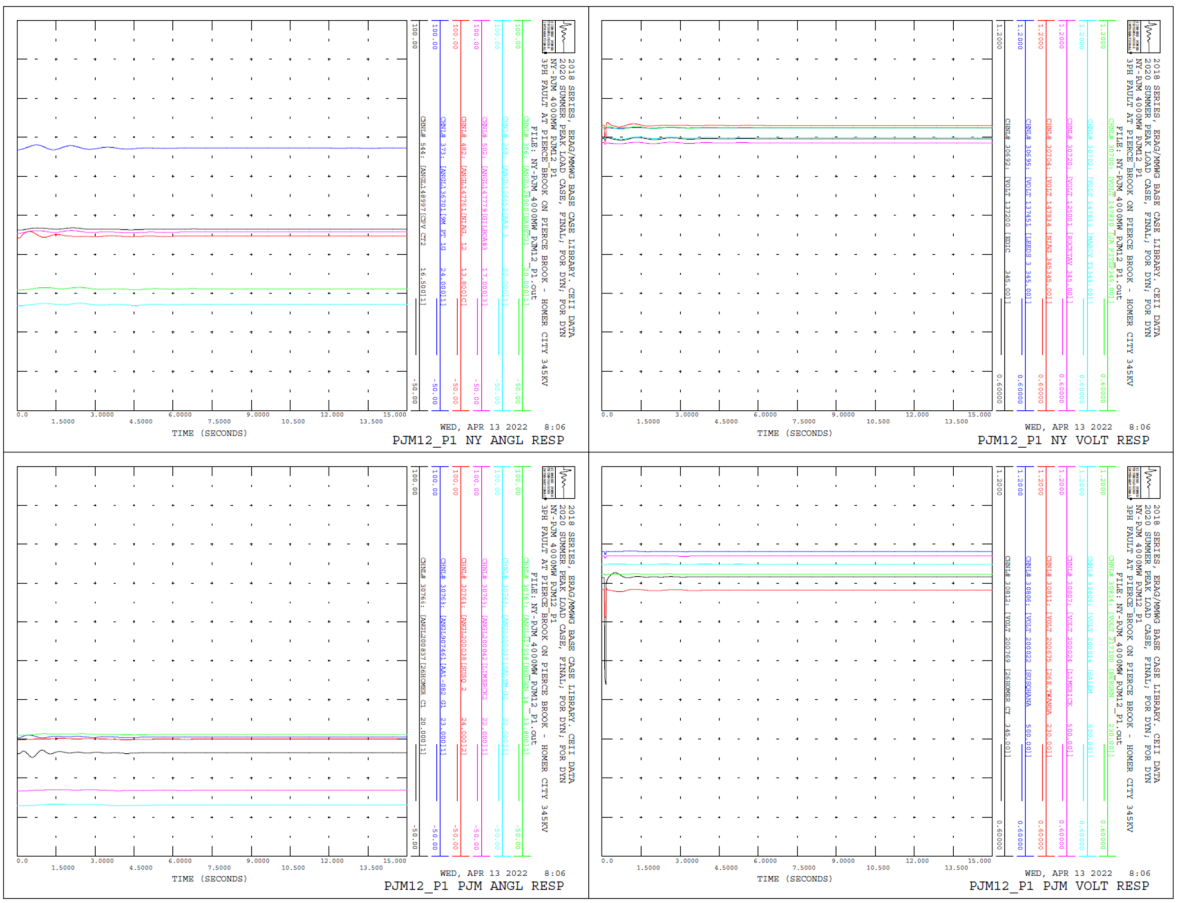


**Figure 73: NY-PJM 4000 MW Contingency PJM12_P1 Angle/Voltage Response Plots**

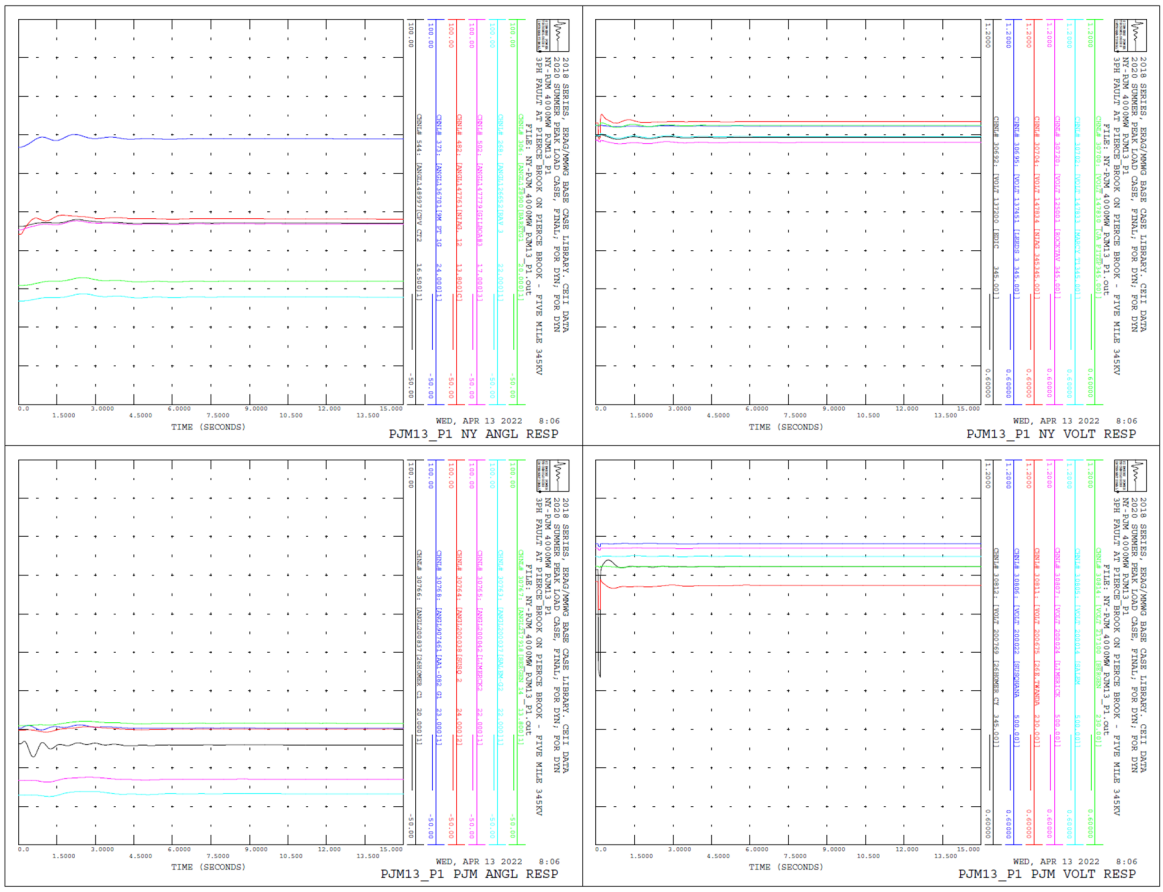


**Figure 74: NY-PJM 4000 MW Contingency PJM13_P1 Angle/Voltage Response Plots**

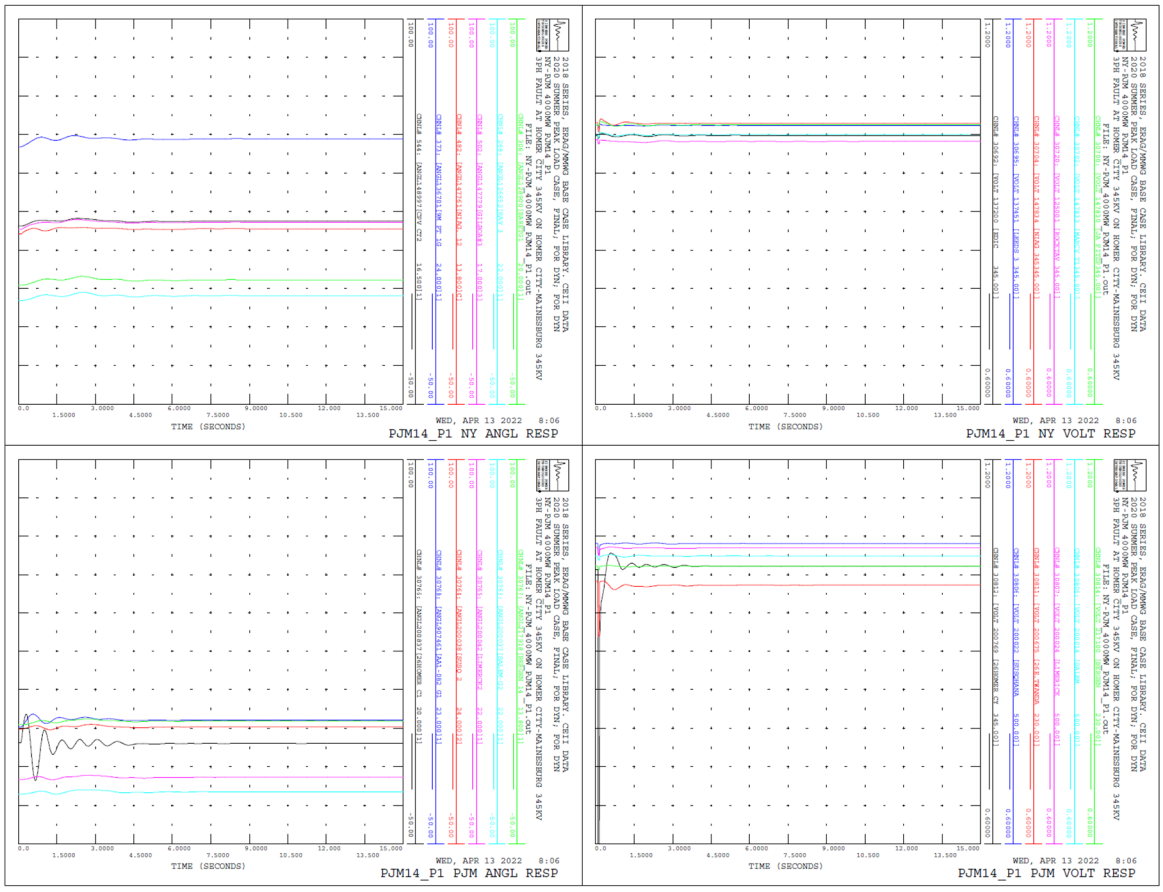


**Figure 75: NY-PJM 4000 MW Contingency PJM14_P1 Angle/Voltage Response Plots**

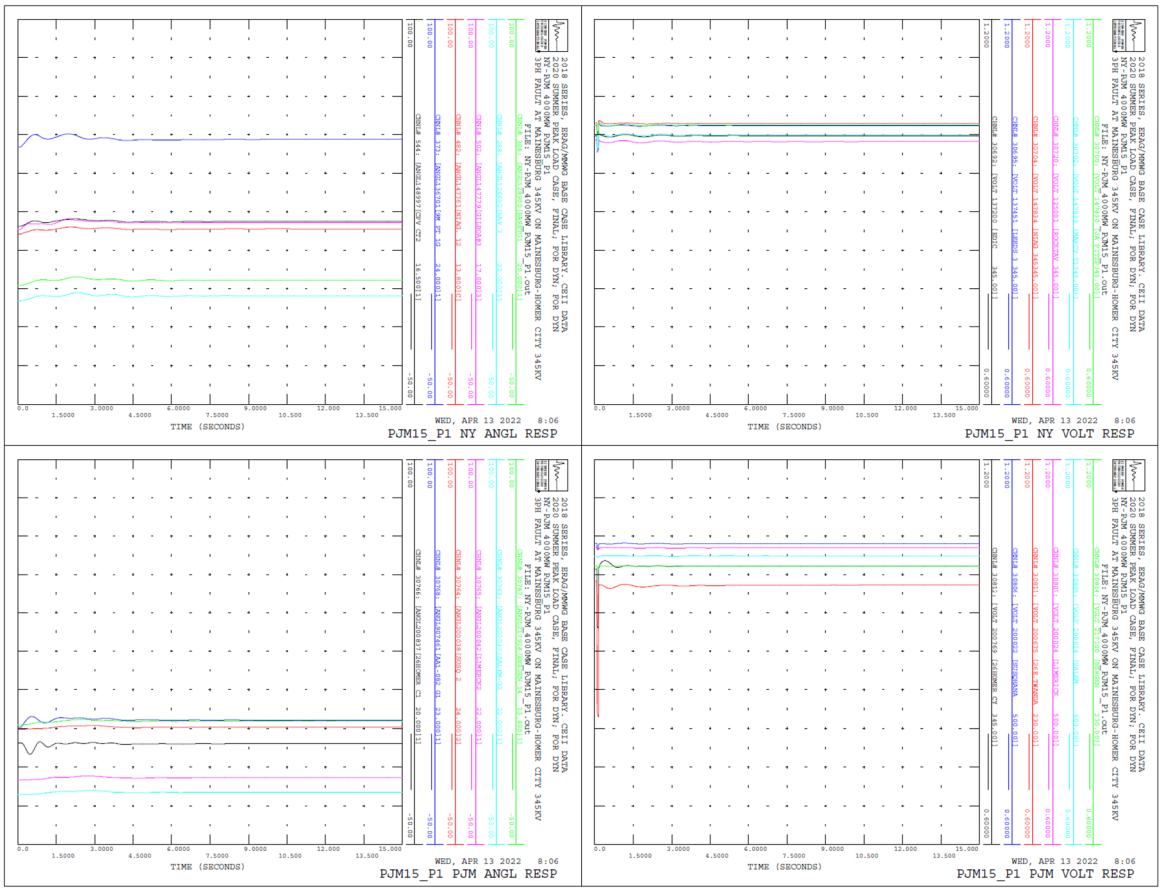


**Figure 76: NY-PJM 4000 MW Contingency PJM15_P1 Angle/Voltage Response Plots**

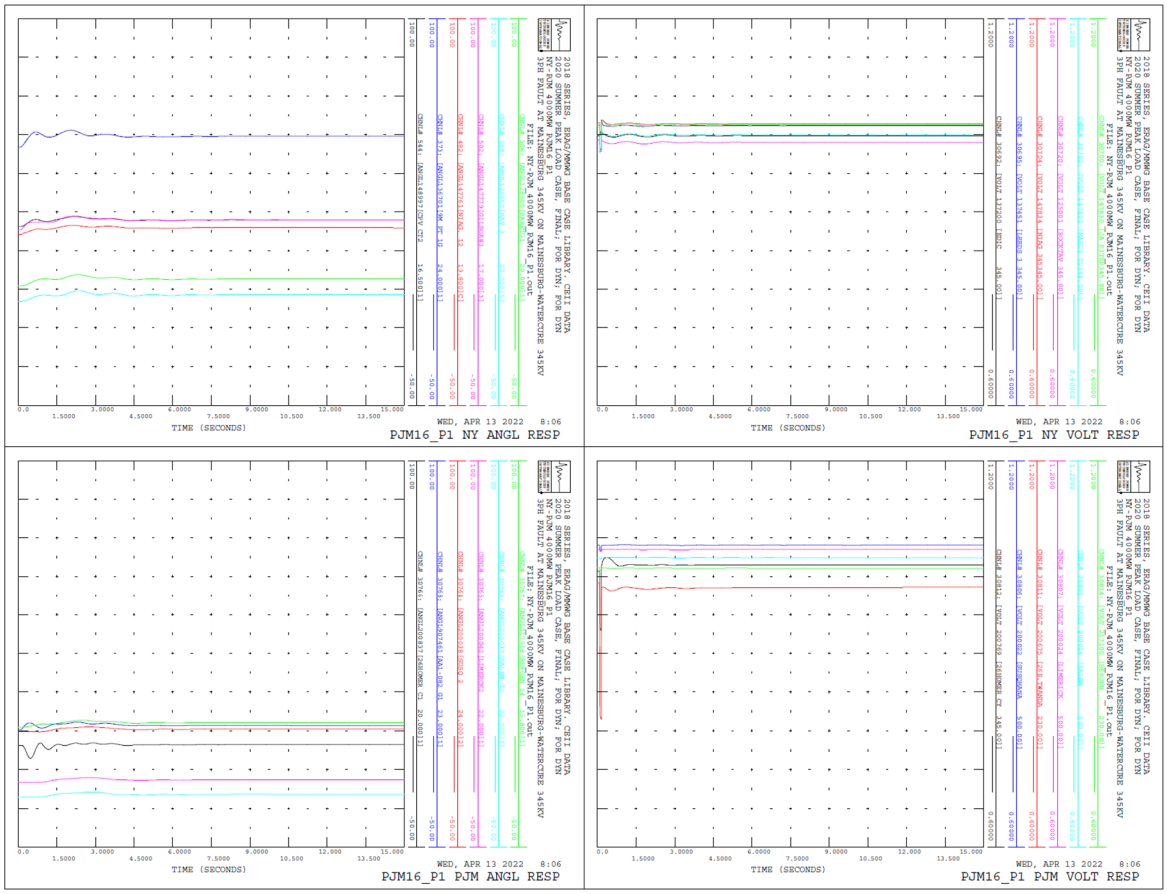


**Figure 77: NY-PJM 4000 MW Contingency PJM16_P1 Angle/Voltage Response Plots**

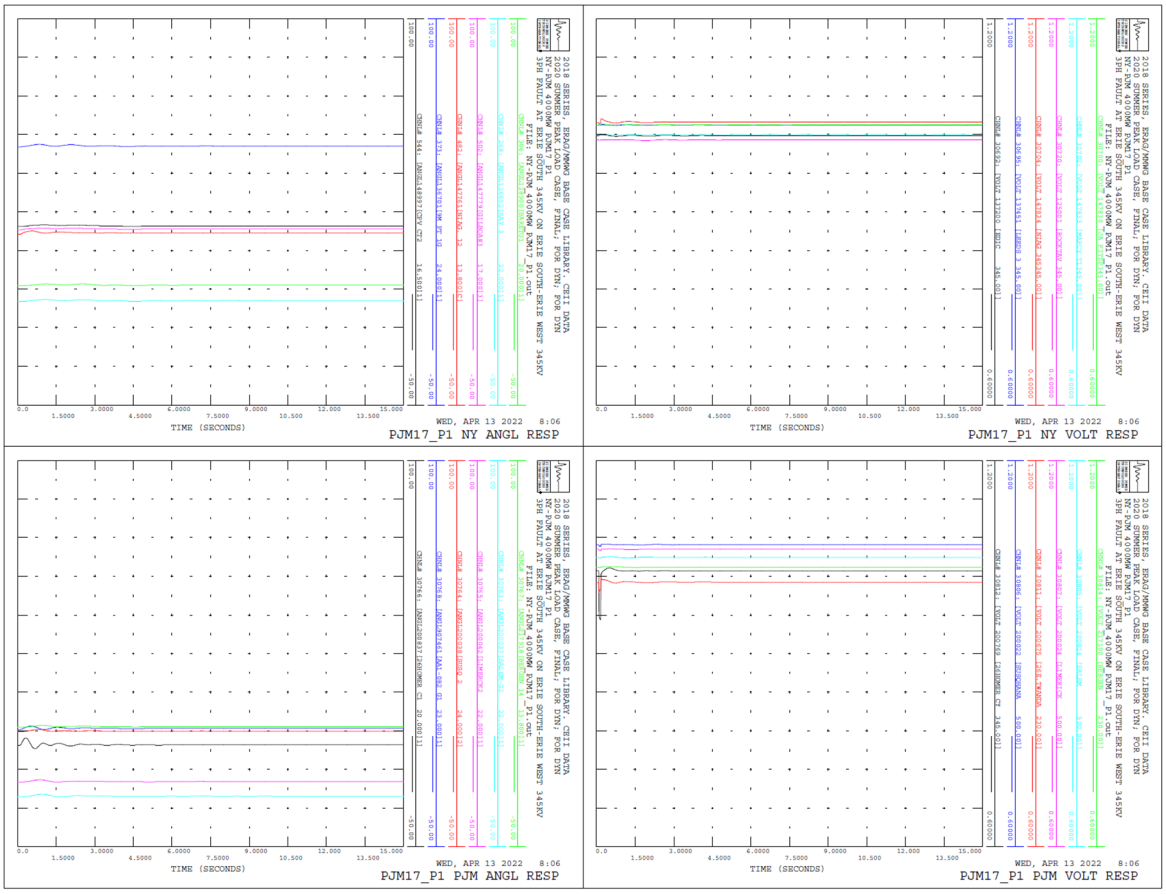


**Figure 78: NY-PJM 4000 MW Contingency PJM17_P1 Angle/Voltage Response Plots**

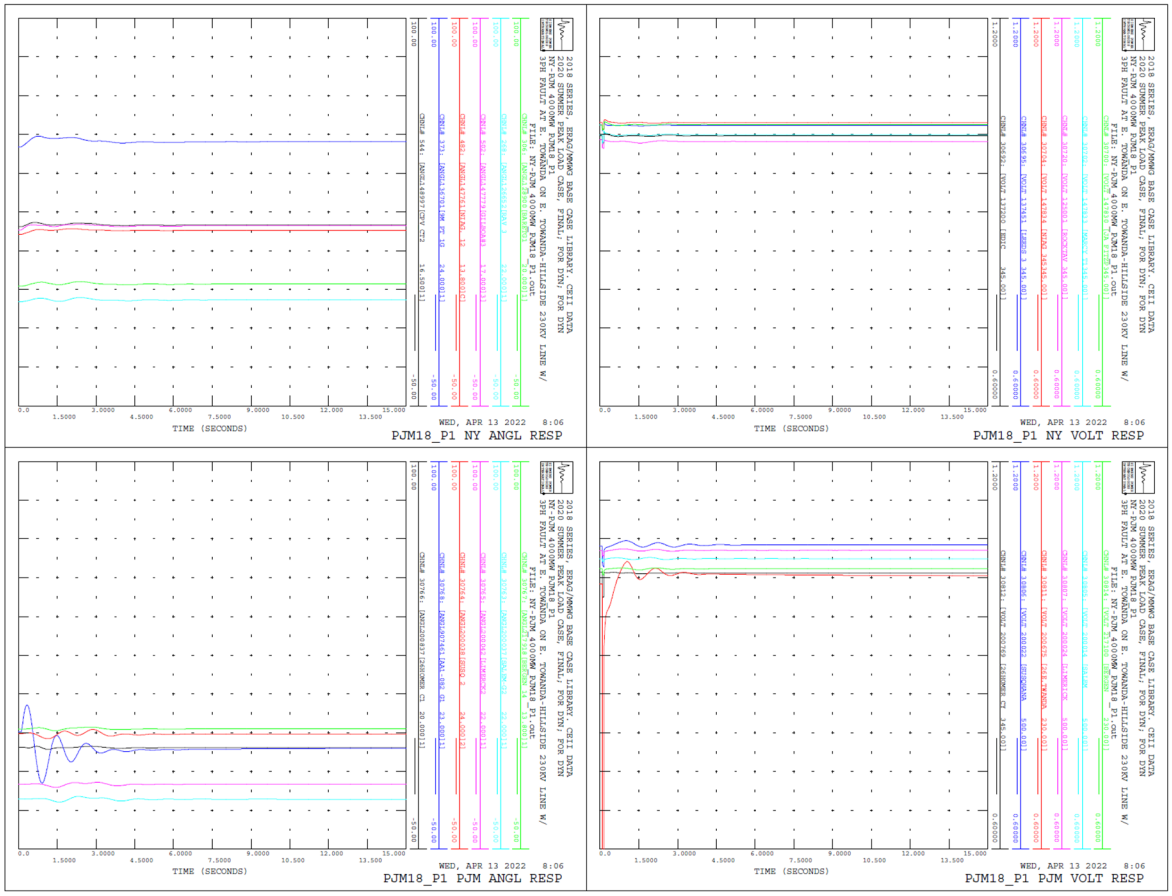


**Figure 79: NY-PJM 4000 MW Contingency PJM18_P1 Angle/Voltage Response Plots**

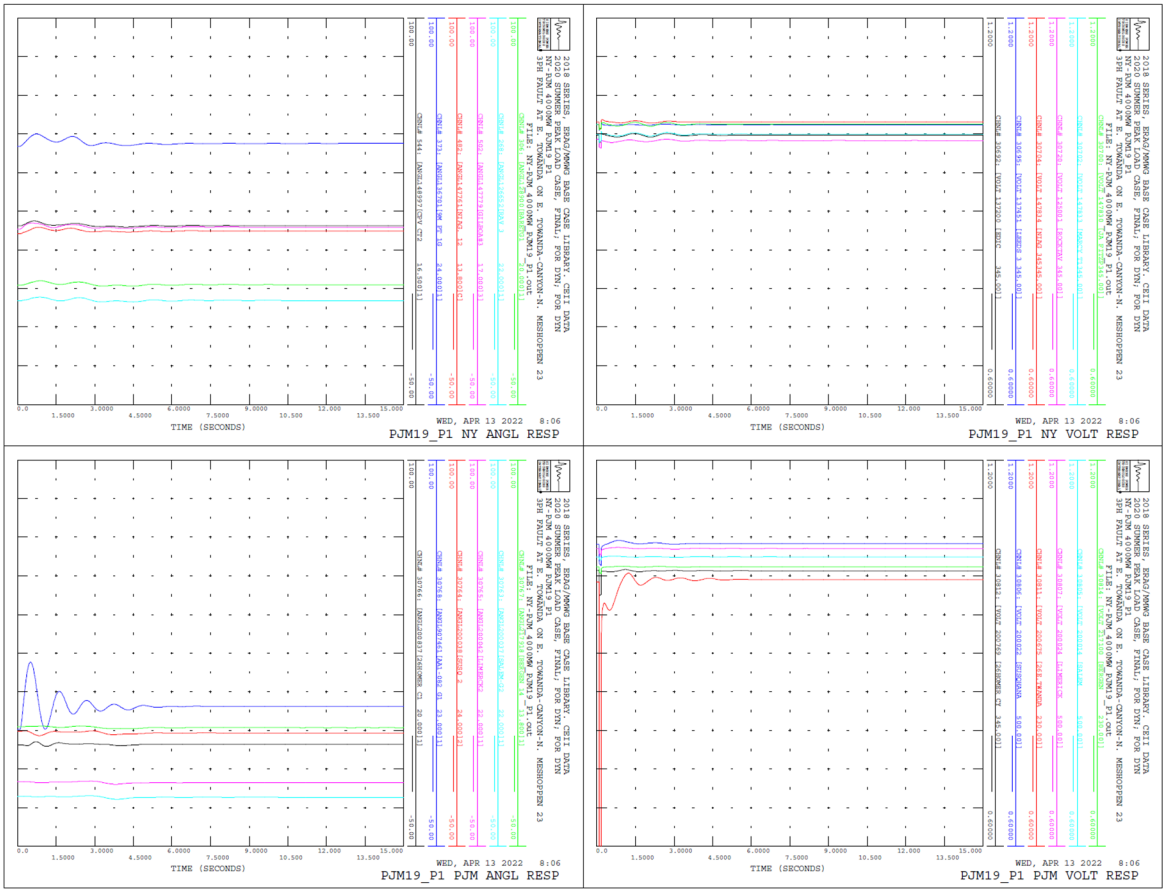


**Figure 80: NY-PJM 4000 MW Contingency PJM19_P1 Angle/Voltage Response Plots**

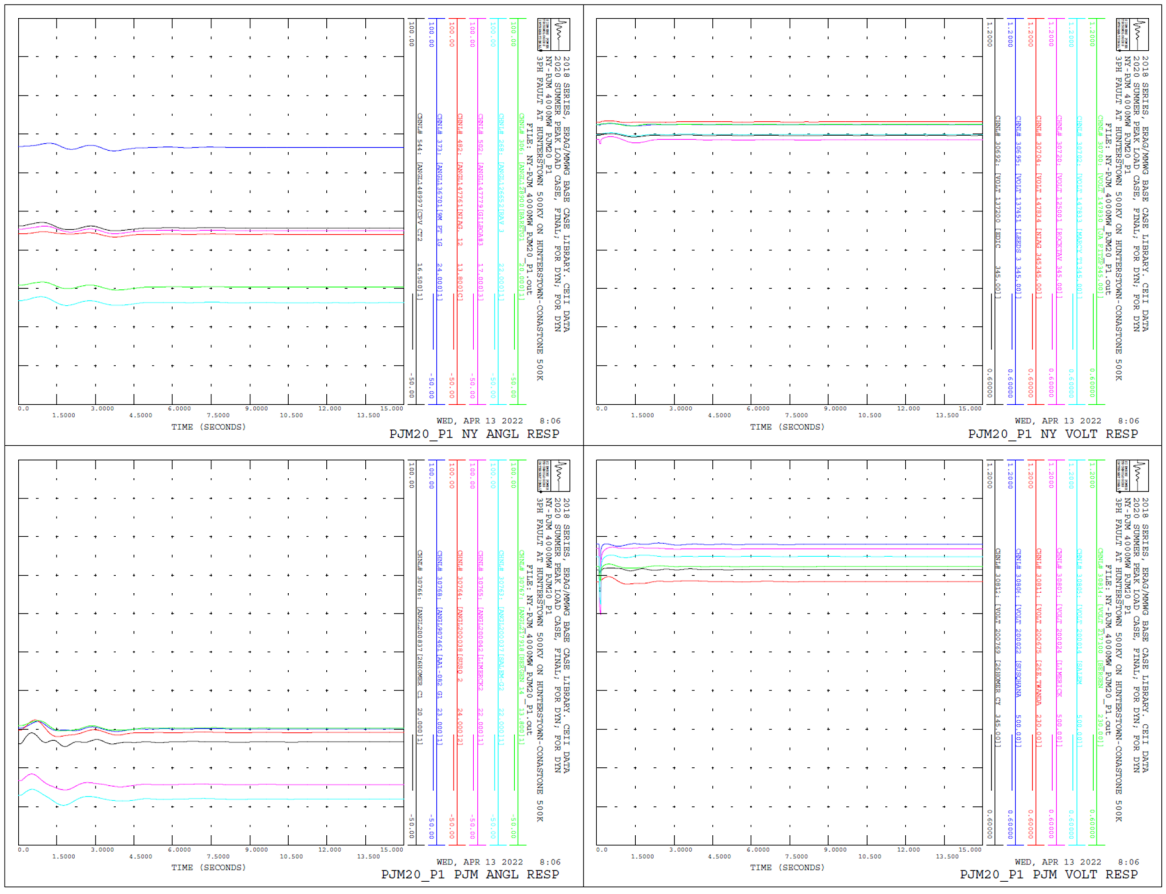


**Figure 81: NY-PJM 4000 MW Contingency PJM20_P1 Angle/Voltage Response Plots**

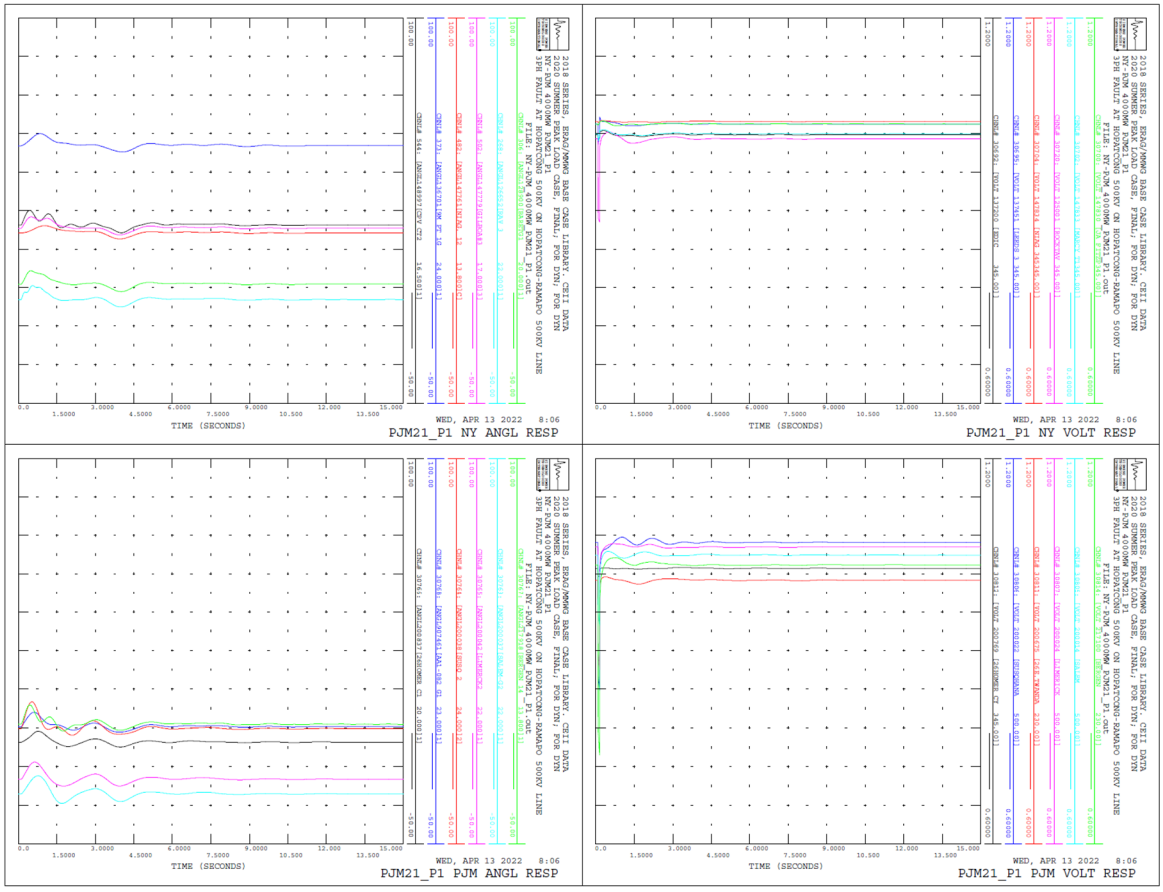


**Figure 82: NY-PJM 4000 MW Contingency PJM21_P1 Angle/Voltage Response Plots**

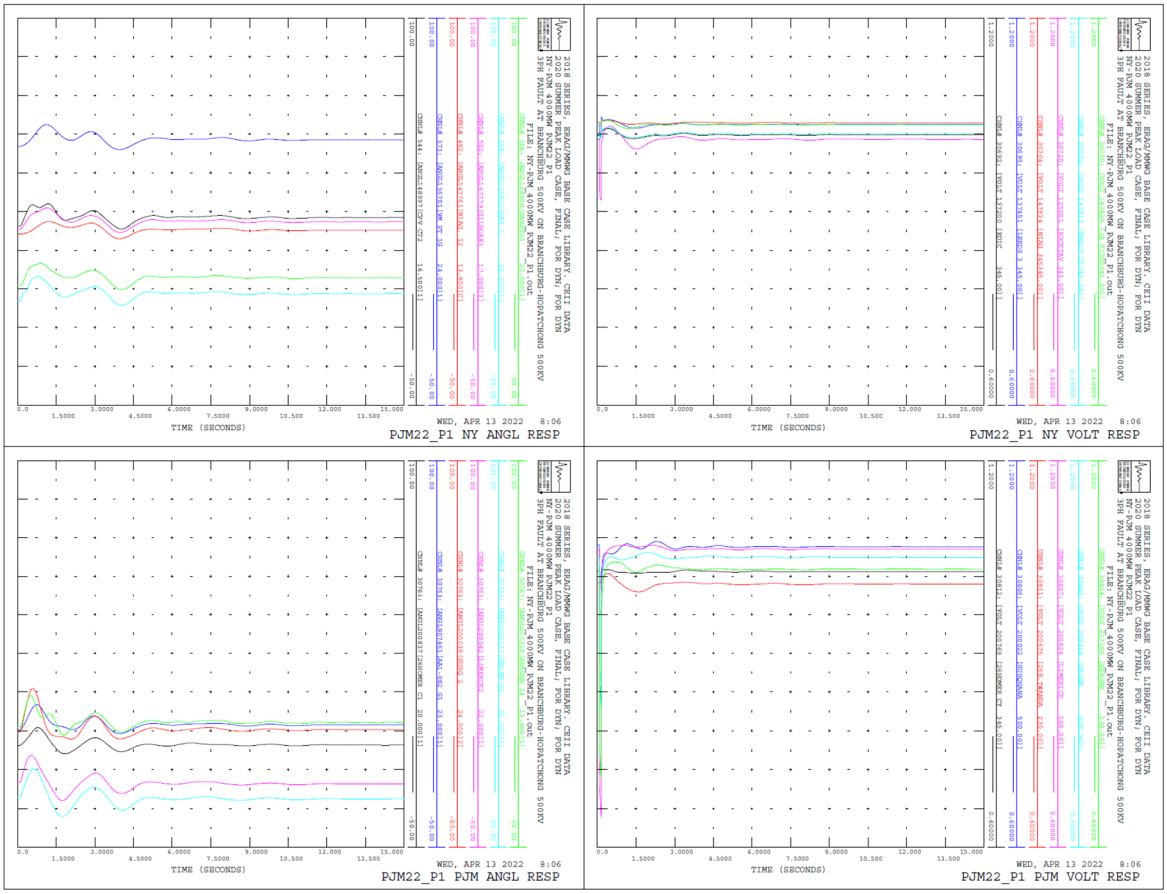


**Figure 83: NY-PJM 4000 MW Contingency PJM22_P1 Angle/Voltage Response Plots**

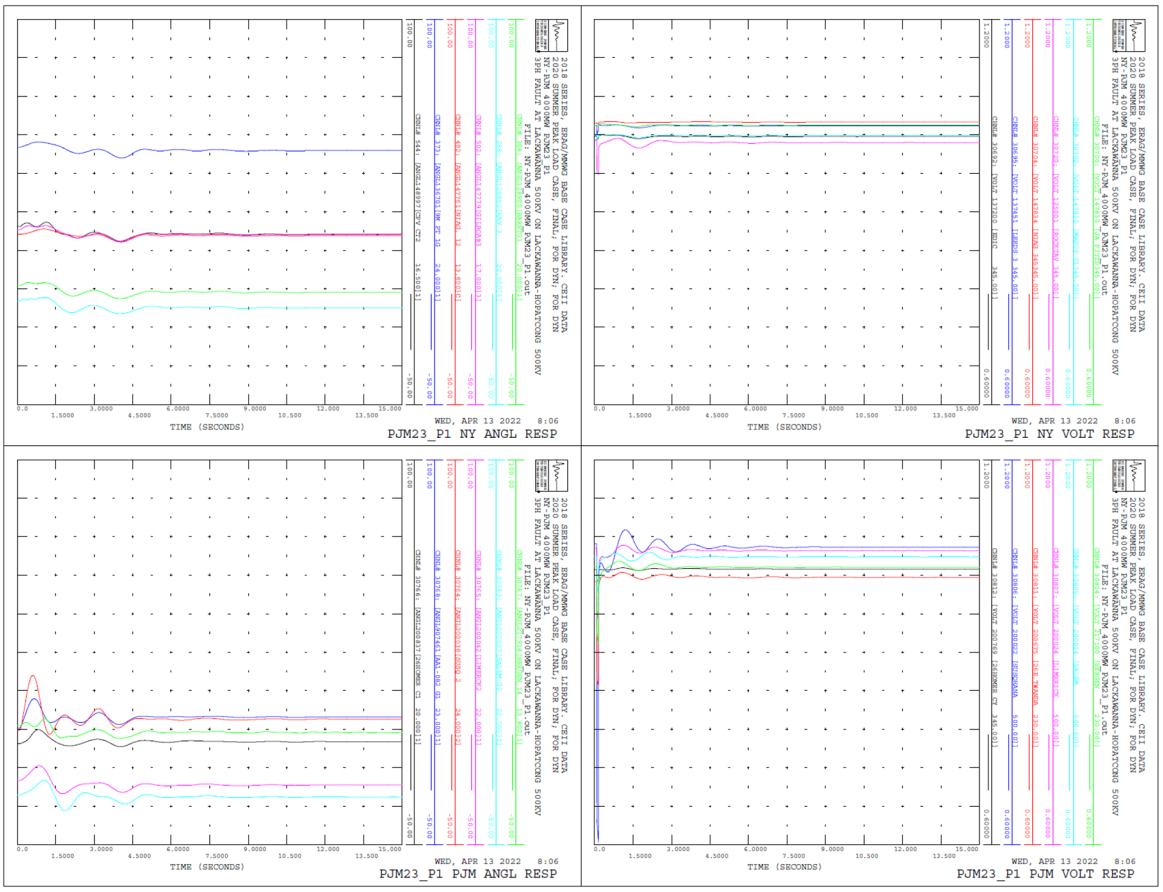


**Figure 84: NY-PJM 4000 MW Contingency PJM23_P1 Angle/Voltage Response Plots**

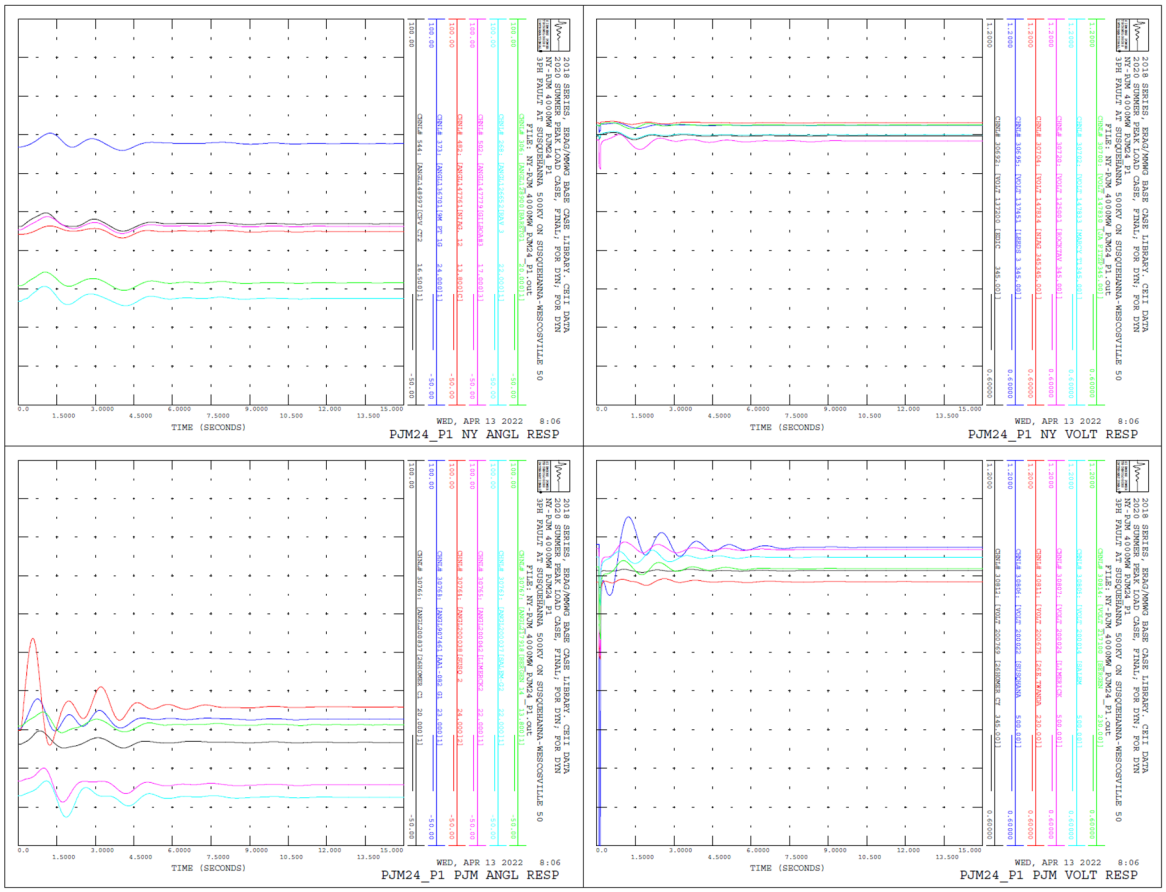


**Figure 85: NY-PJM 4000 MW Contingency PJM24_P1 Angle/Voltage Response Plots**

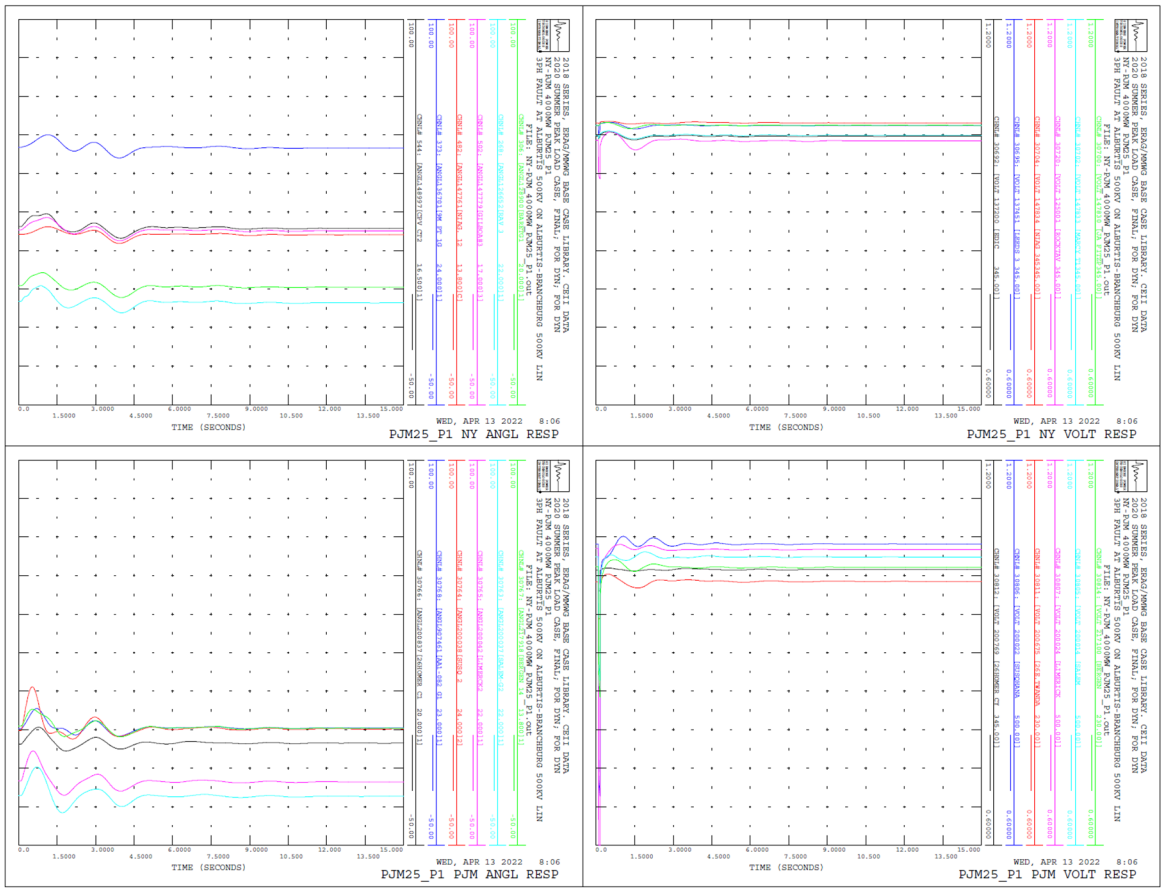


**Figure 86: NY-PJM 4000 MW Contingency PJM25_P1 Angle/Voltage Response Plots**

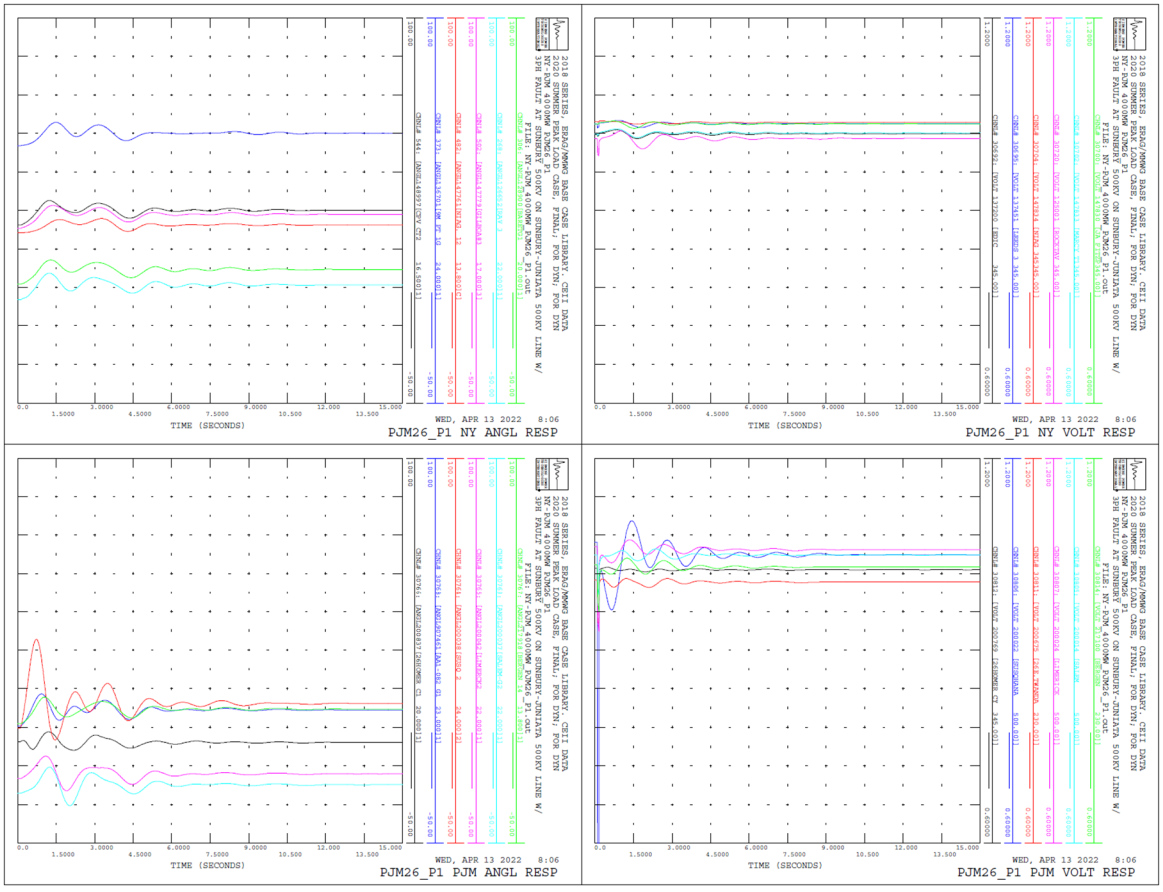


**Figure 87: NY-PJM 4000 MW Contingency PJM26_P1 Angle/Voltage Response Plots**

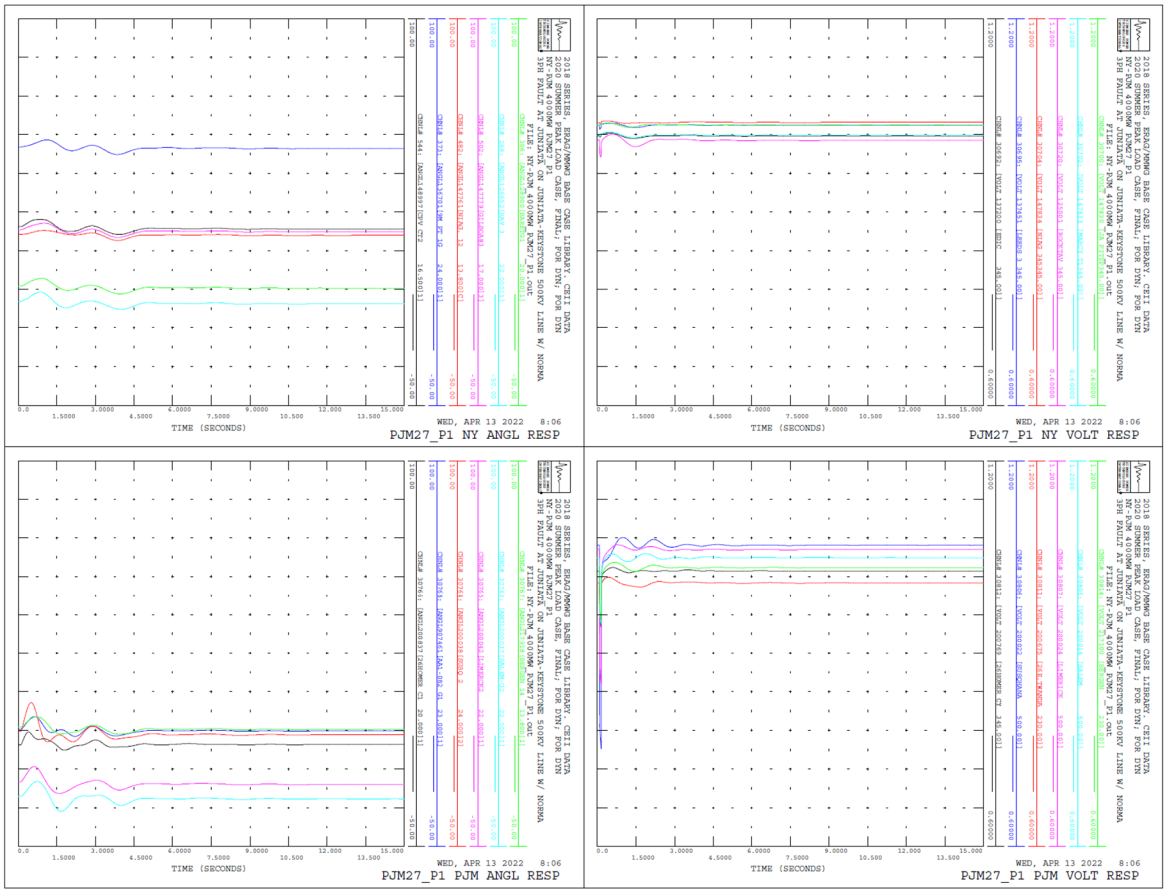


**Figure 88: NY-PJM 4000 MW Contingency PJM27_P1 Angle/Voltage Response Plots**

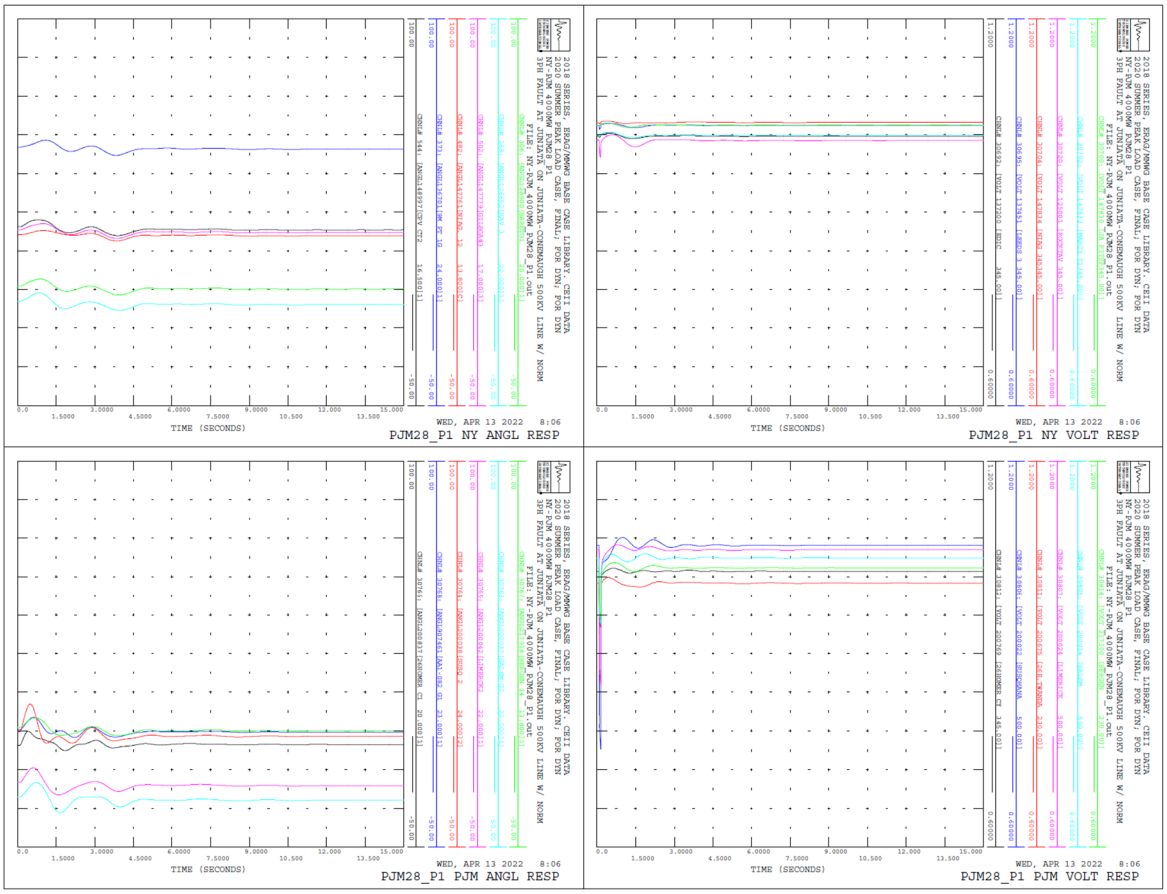


**Figure 89: NY-PJM 4000 MW Contingency PJM28_P1 Angle/Voltage Response Plots**

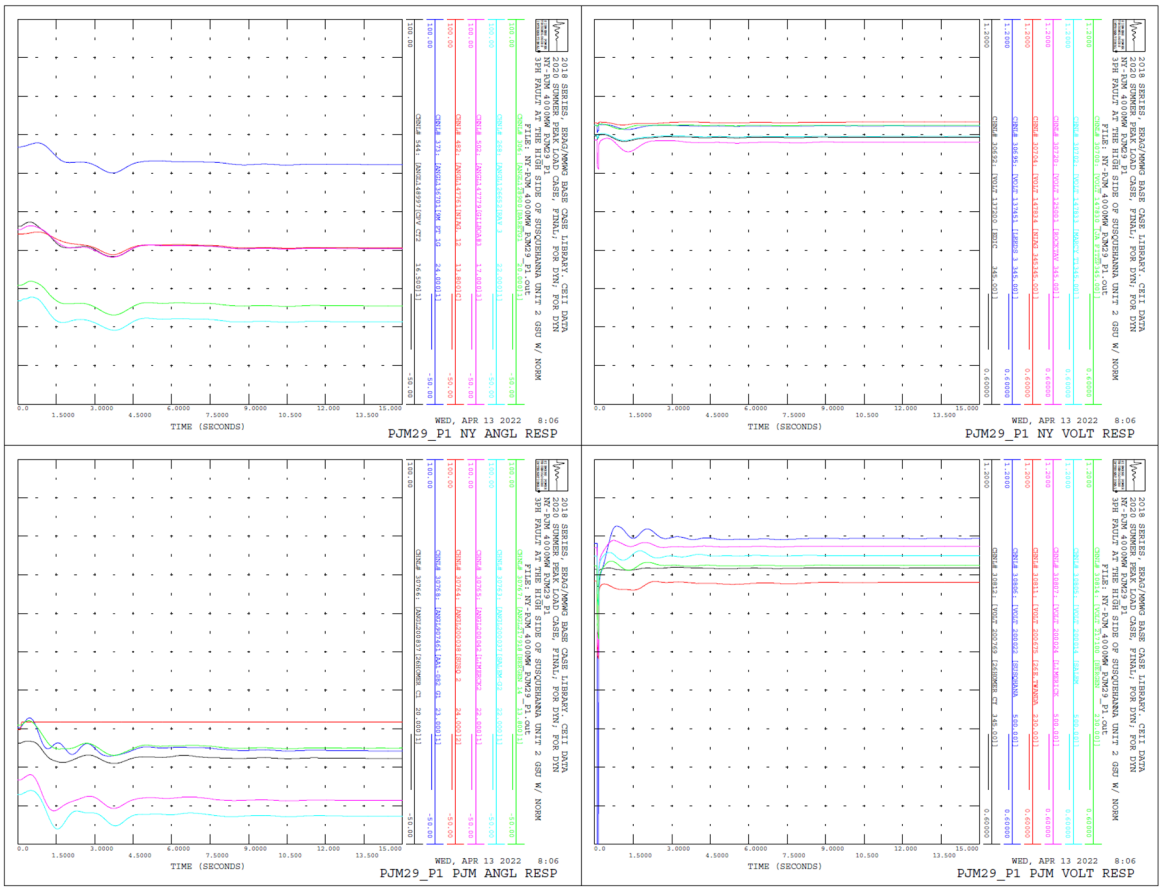


**Figure 90: NY-PJM 4000 MW Contingency PJM29_P1 Angle/Voltage Response Plots**

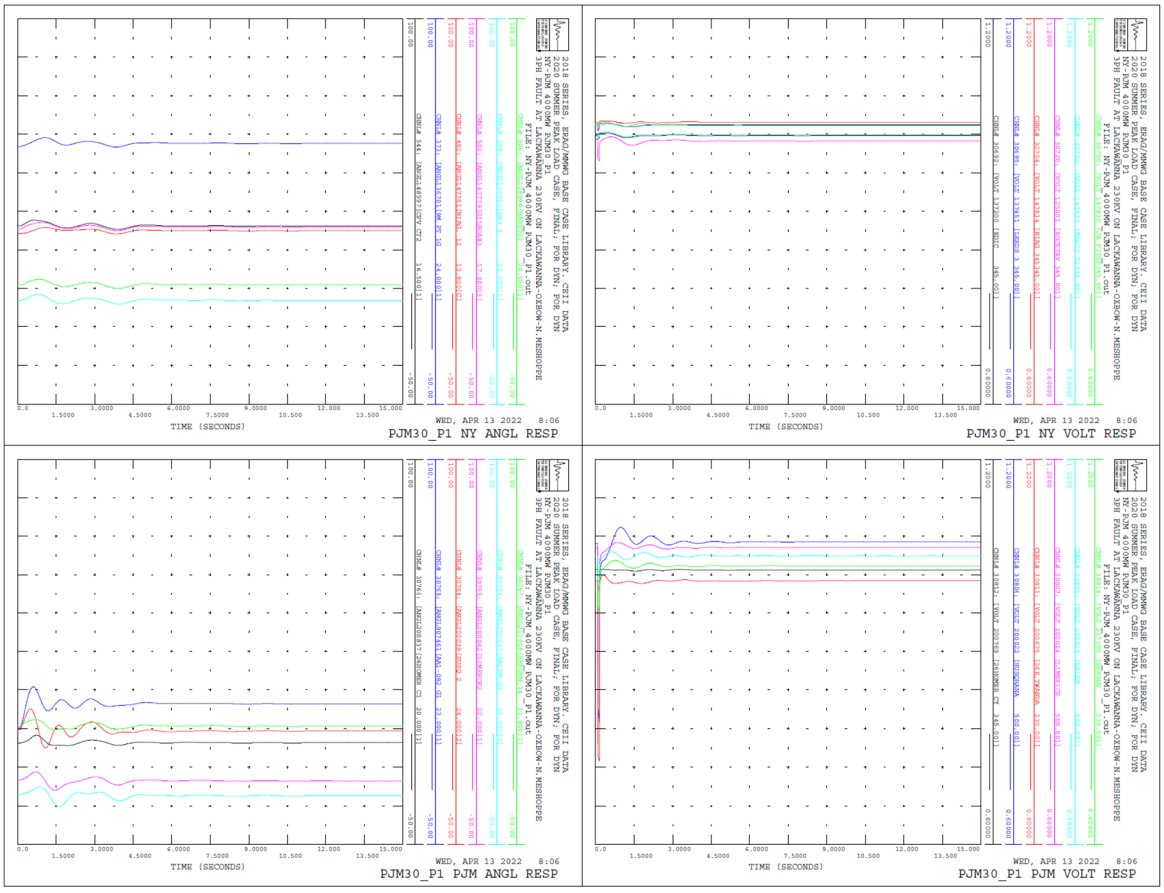


**Figure 91: NY-PJM 4000 MW Contingency PJM30_P1 Angle/Voltage Response Plots**

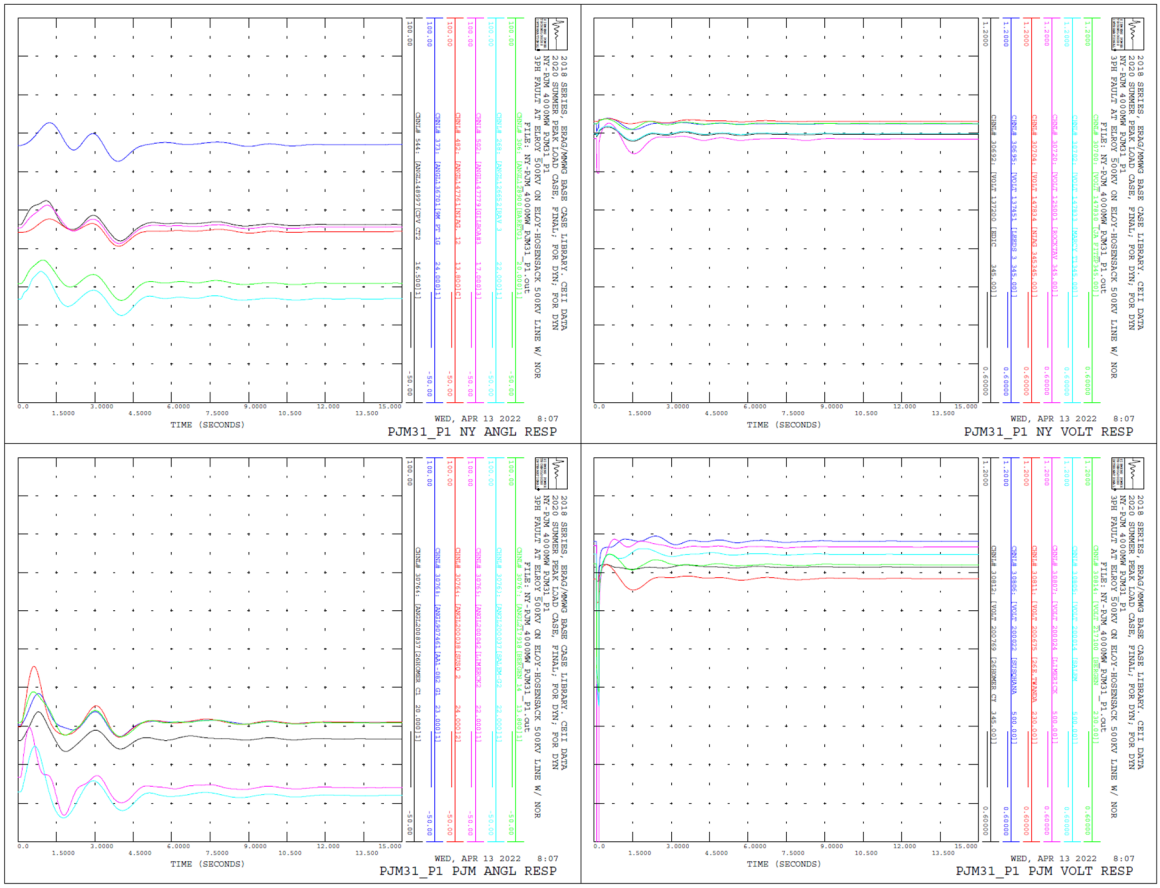


**Figure 92: NY-PJM 4000 MW Contingency PJM31_P1 Angle/Voltage Response Plots**

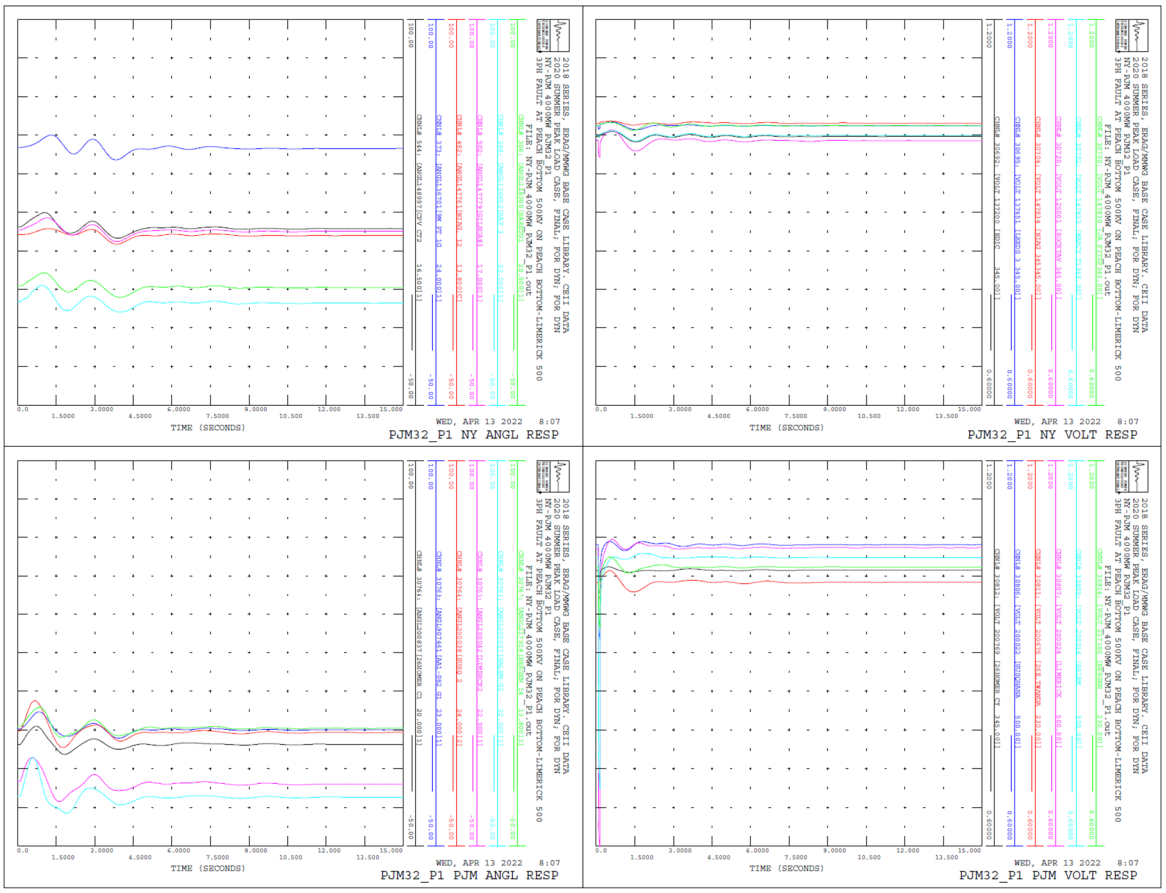


**Figure 93: NY-PJM 4000 MW Contingency PJM32_P1 Angle/Voltage Response Plots**

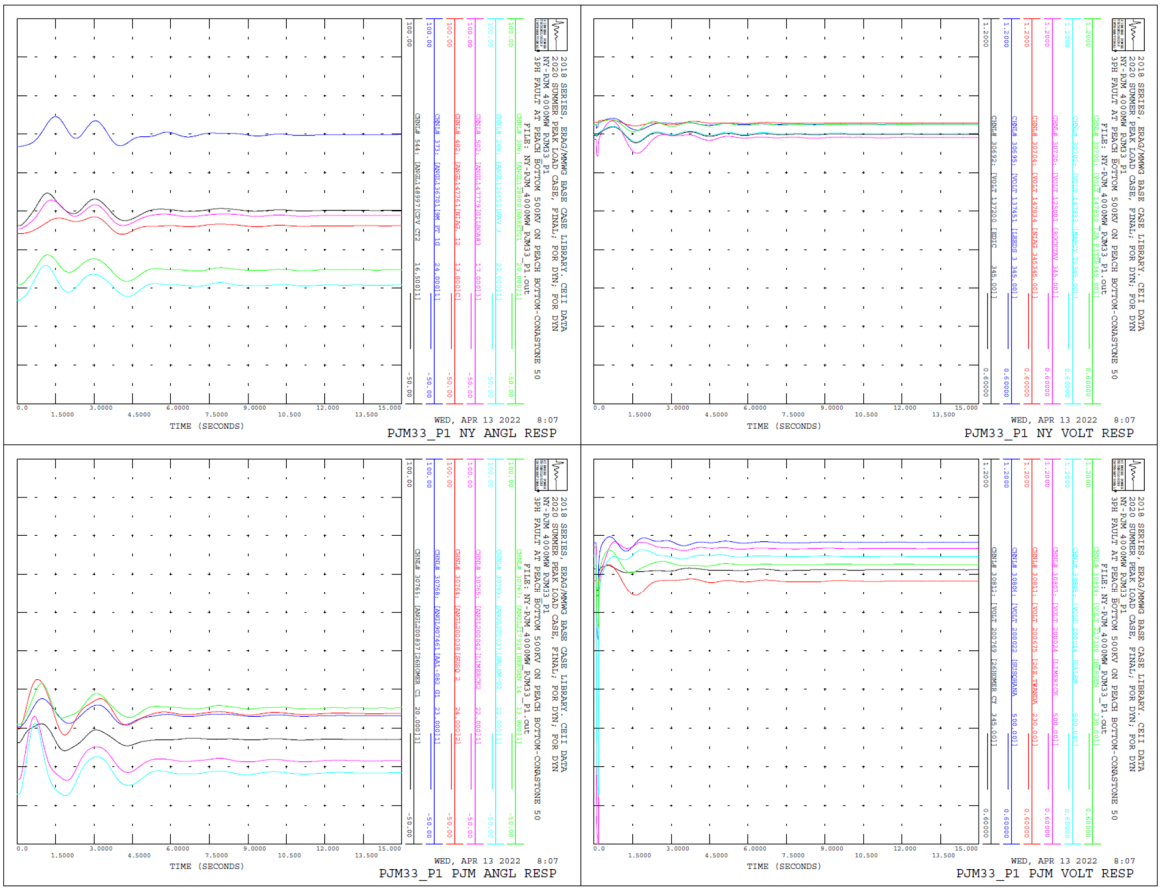


**Figure 94: NY-PJM 4000 MW Contingency PJM33_P1 Angle/Voltage Response Plots**

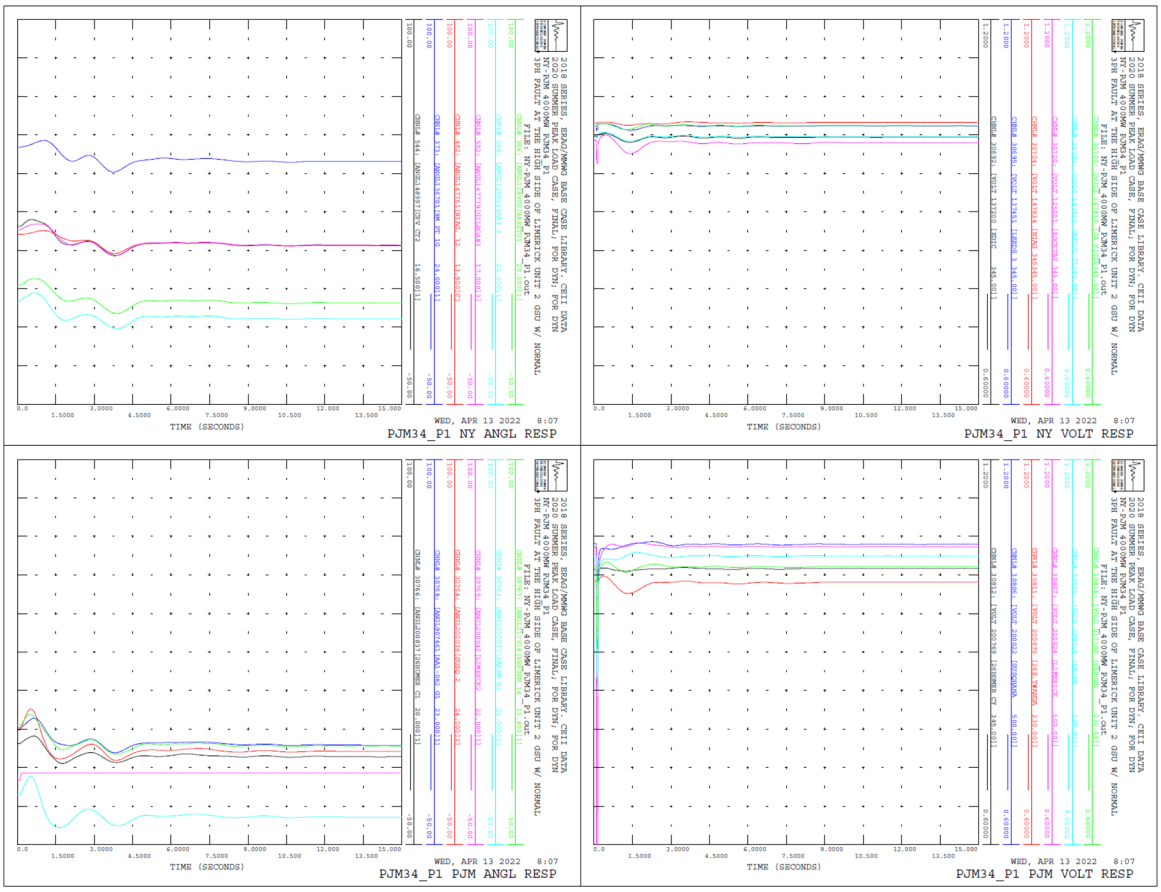


**Figure 95: NY-PJM 4000 MW Contingency PJM34_P1 Angle/Voltage Response Plots**

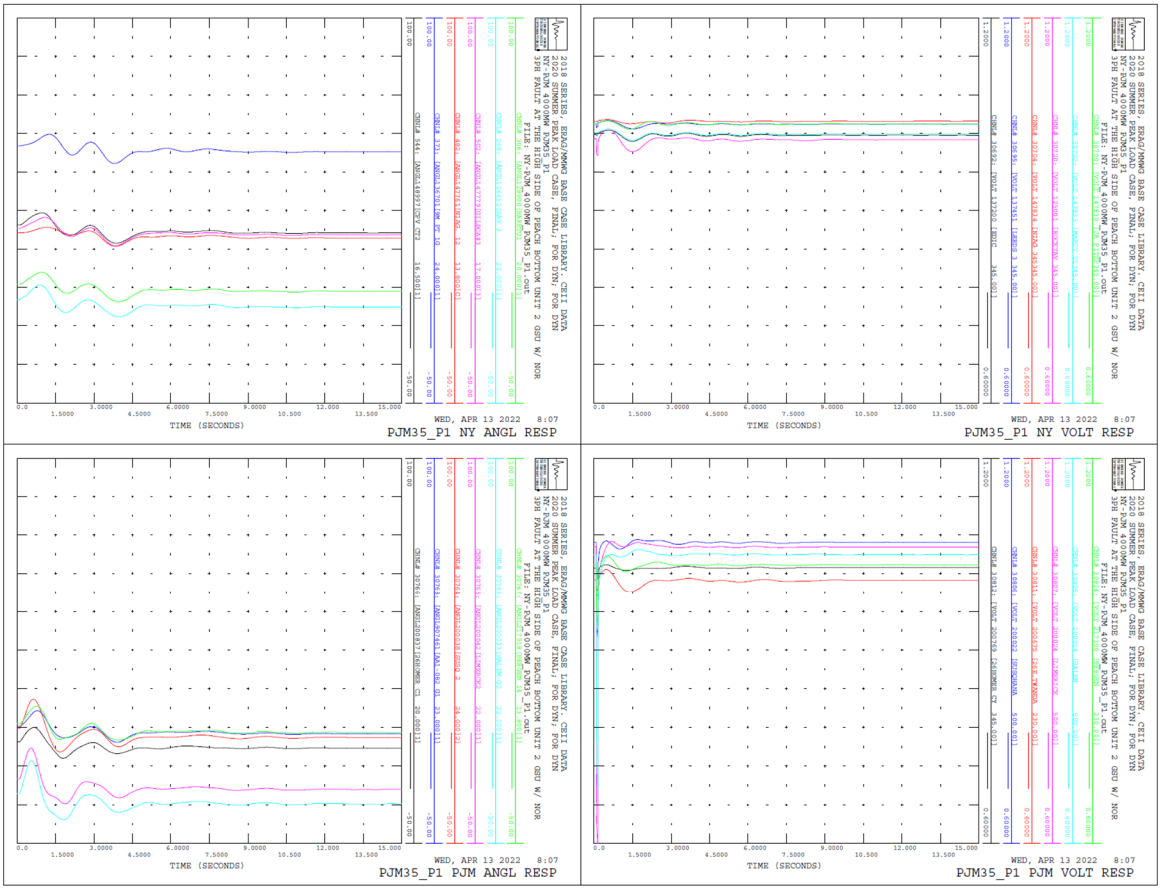


**Figure 96: NY-PJM 4000 MW Contingency PJM35_P1 Angle/Voltage Response Plots**

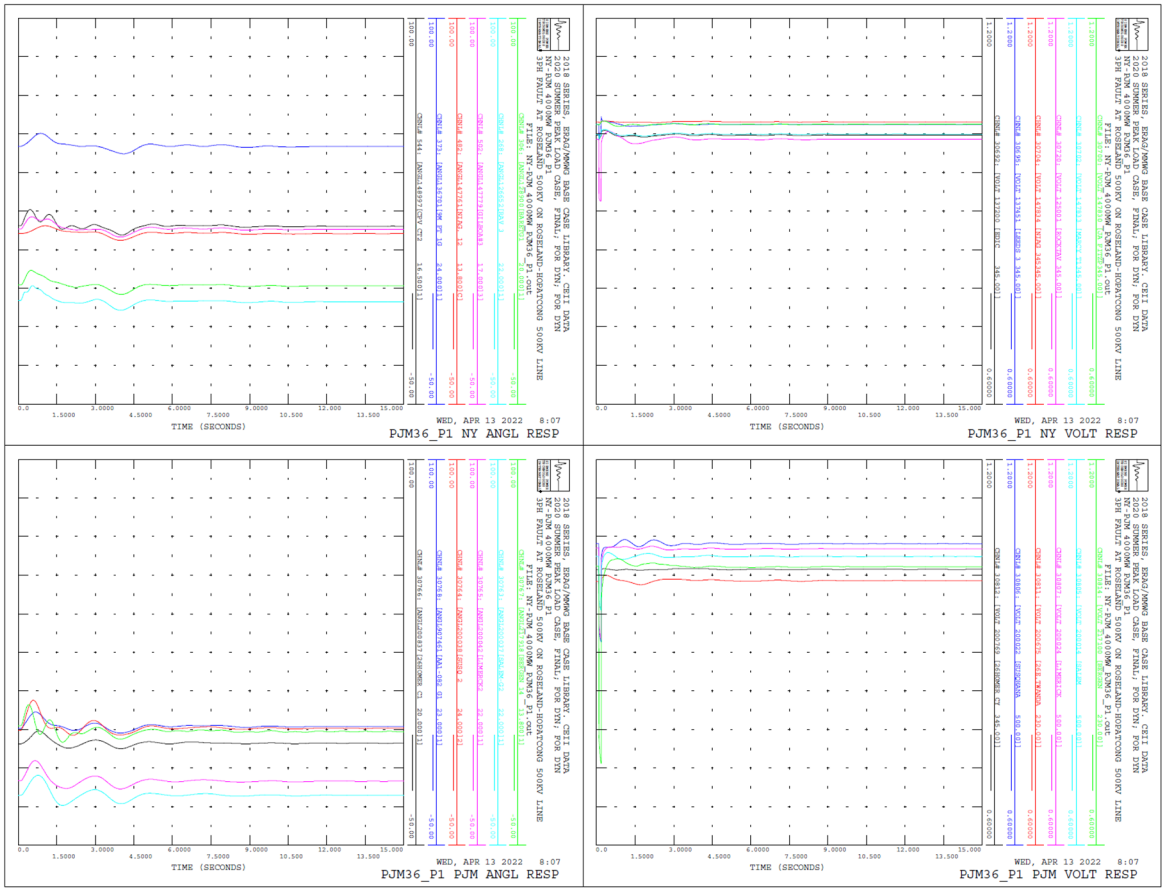


**Figure 97: NY-PJM 4000 MW Contingency PJM36_P1 Angle/Voltage Response Plots**

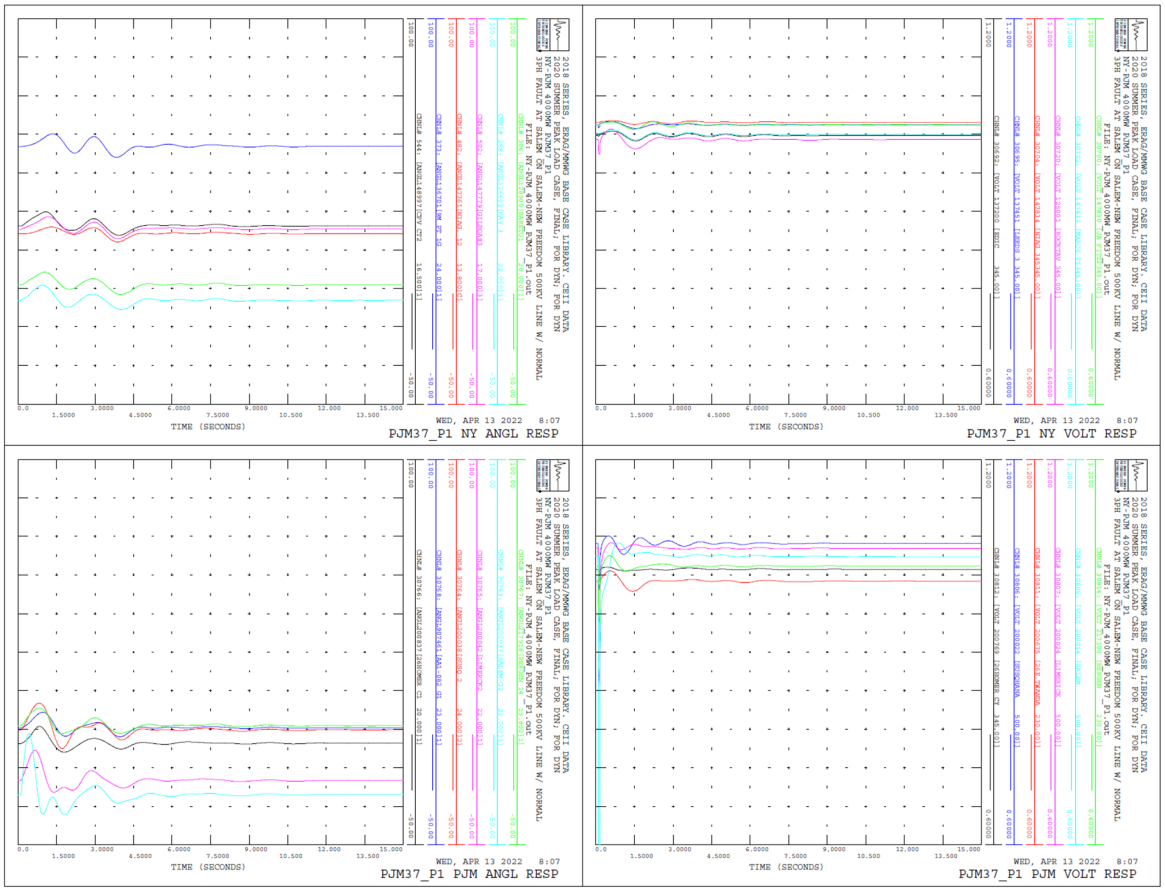


**Figure 98: NY-PJM 4000 MW Contingency PJM37_P1 Angle/Voltage Response Plots**

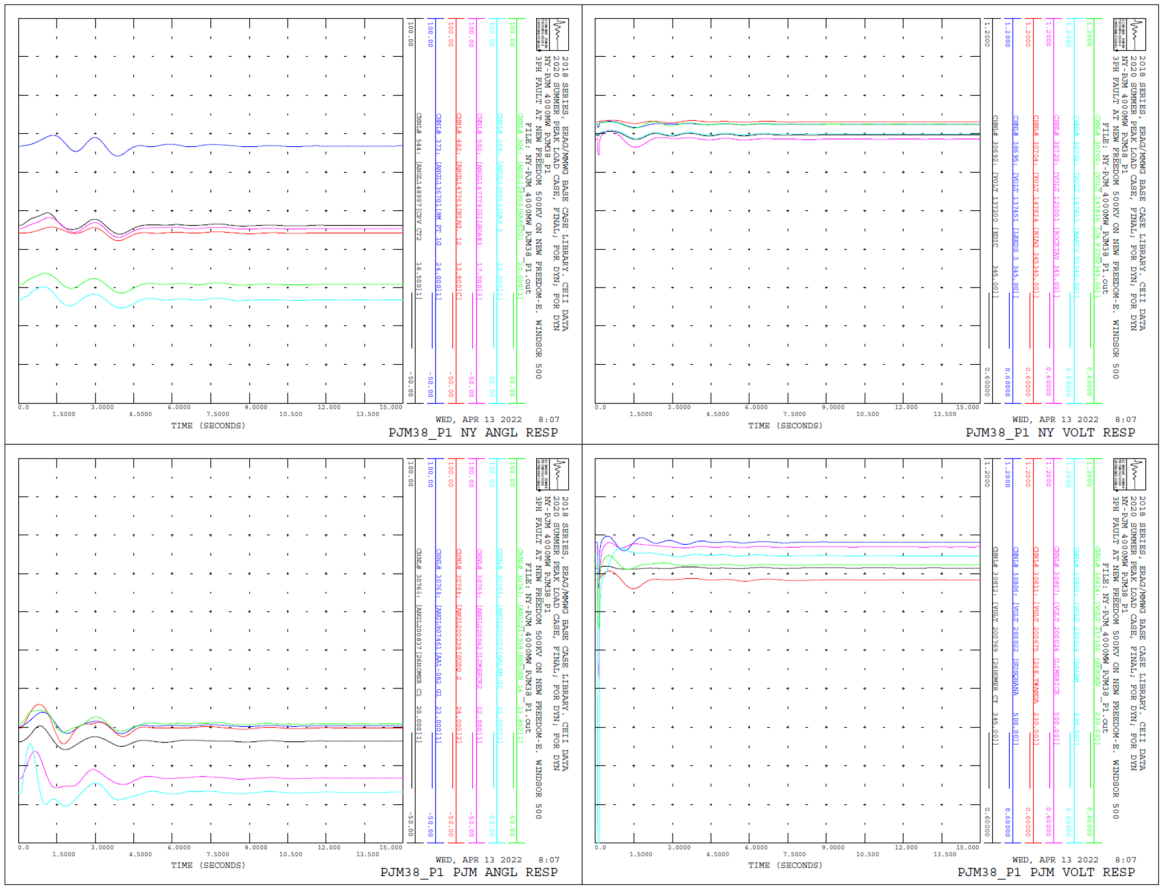


**Figure 99: NY-PJM 4000 MW Contingency PJM38_P1 Angle/Voltage Response Plots**

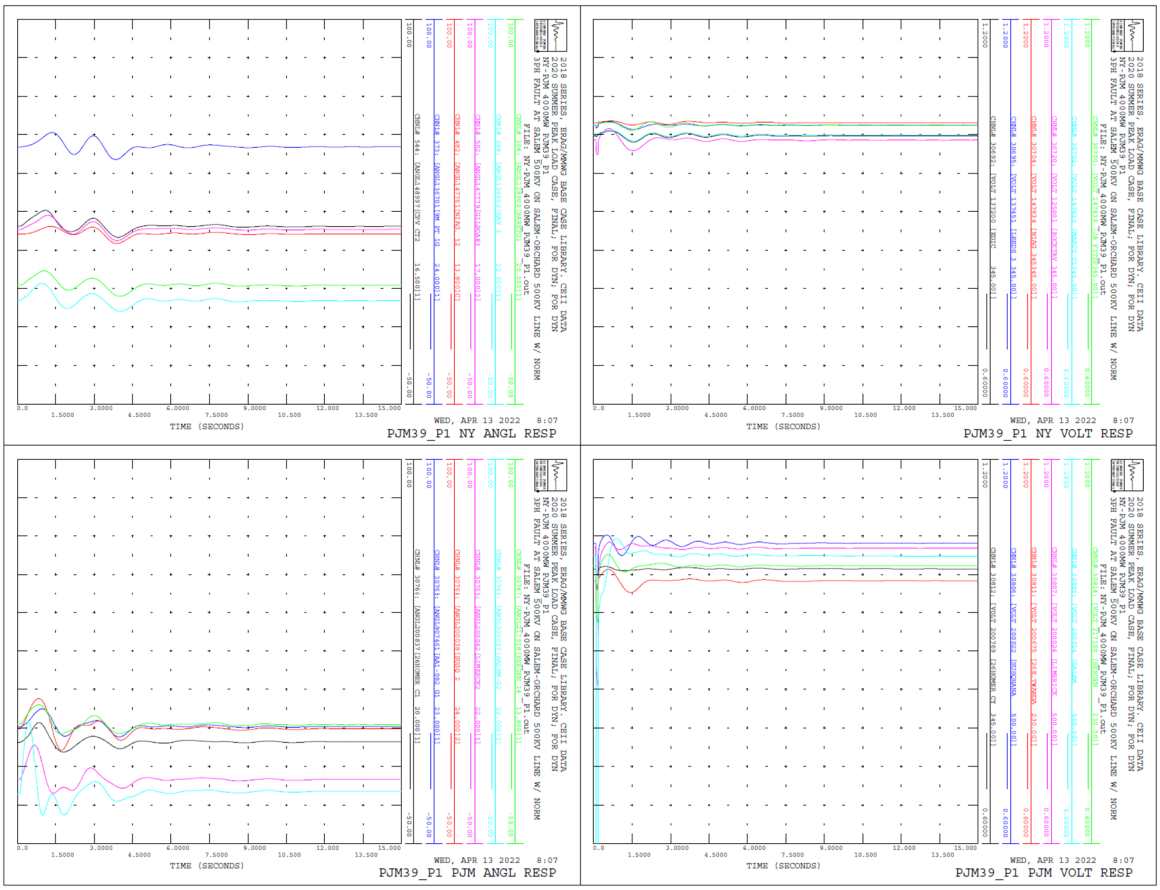


**Figure 100: NY-PJM 4000 MW Contingency PJM39_P1 Angle/Voltage Response Plots**

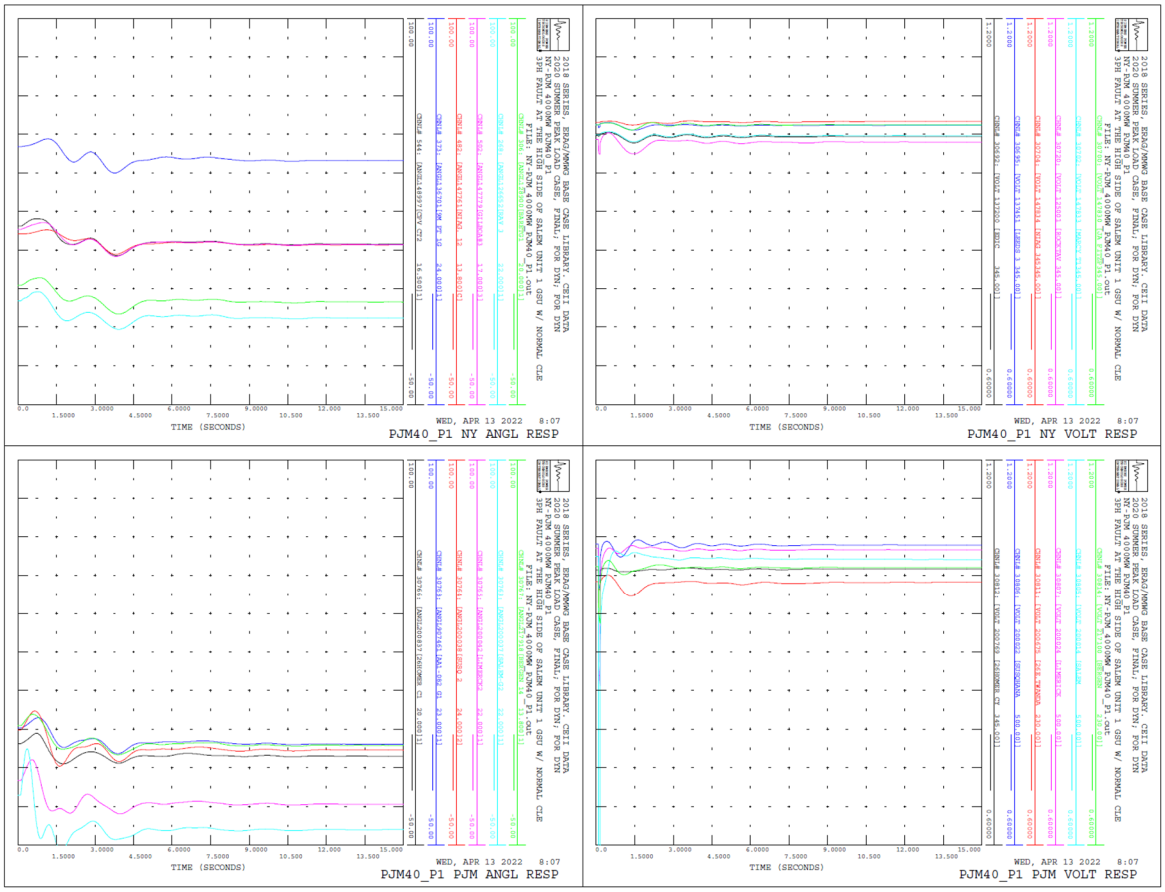


**Figure 101: NY-PJM 4000 MW Contingency PJM40_P1 Angle/Voltage Response Plots**

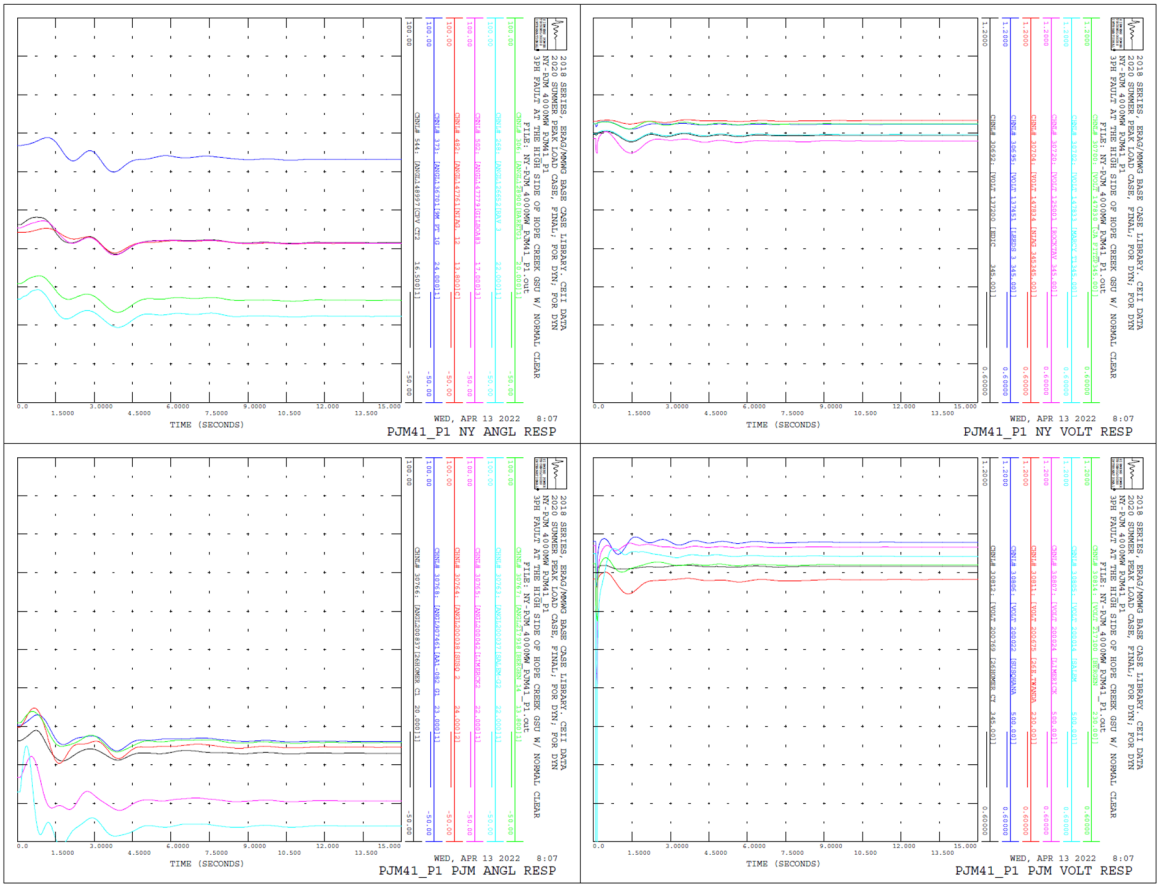


**Figure 102: NY-PJM 4000 MW Contingency PJM41_P1 Angle/Voltage Response Plots**

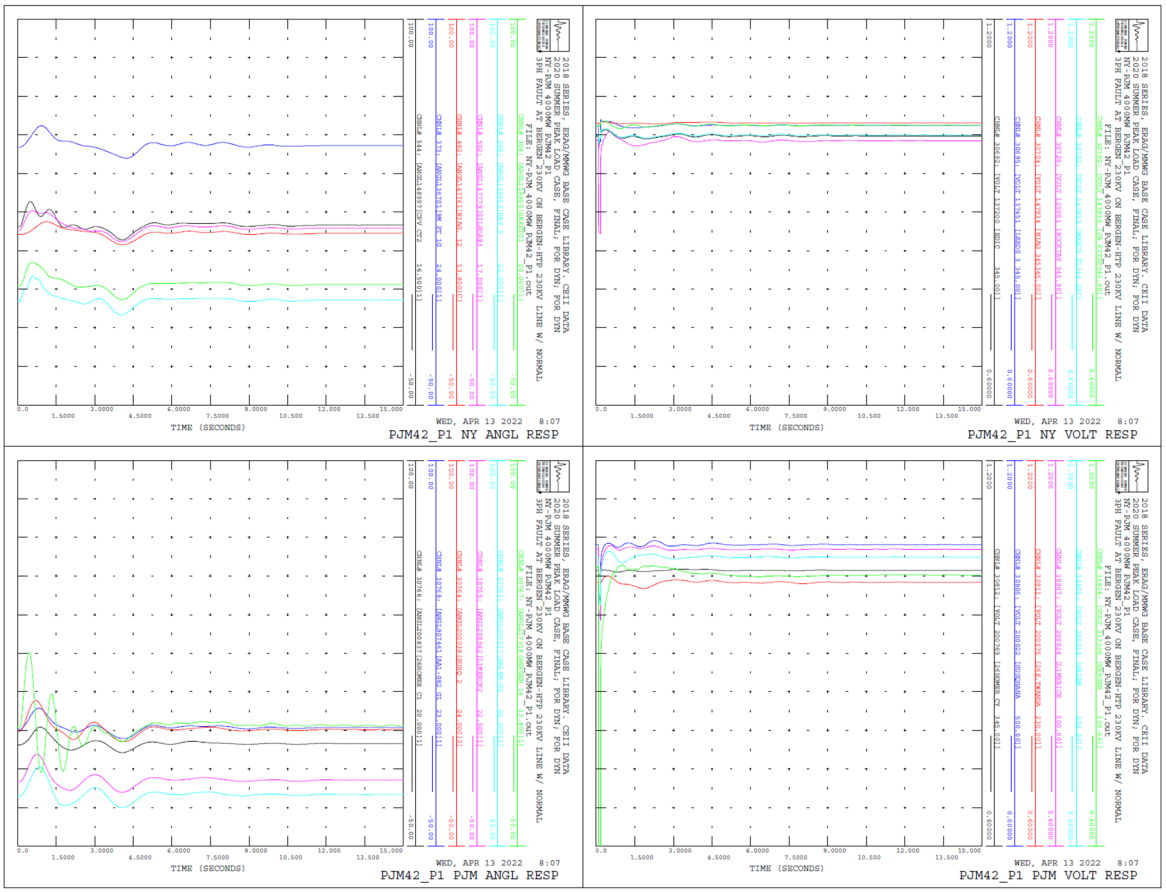


**Figure 103: NY-PJM 4000 MW Contingency PJM42_P1 Angle/Voltage Response Plots**

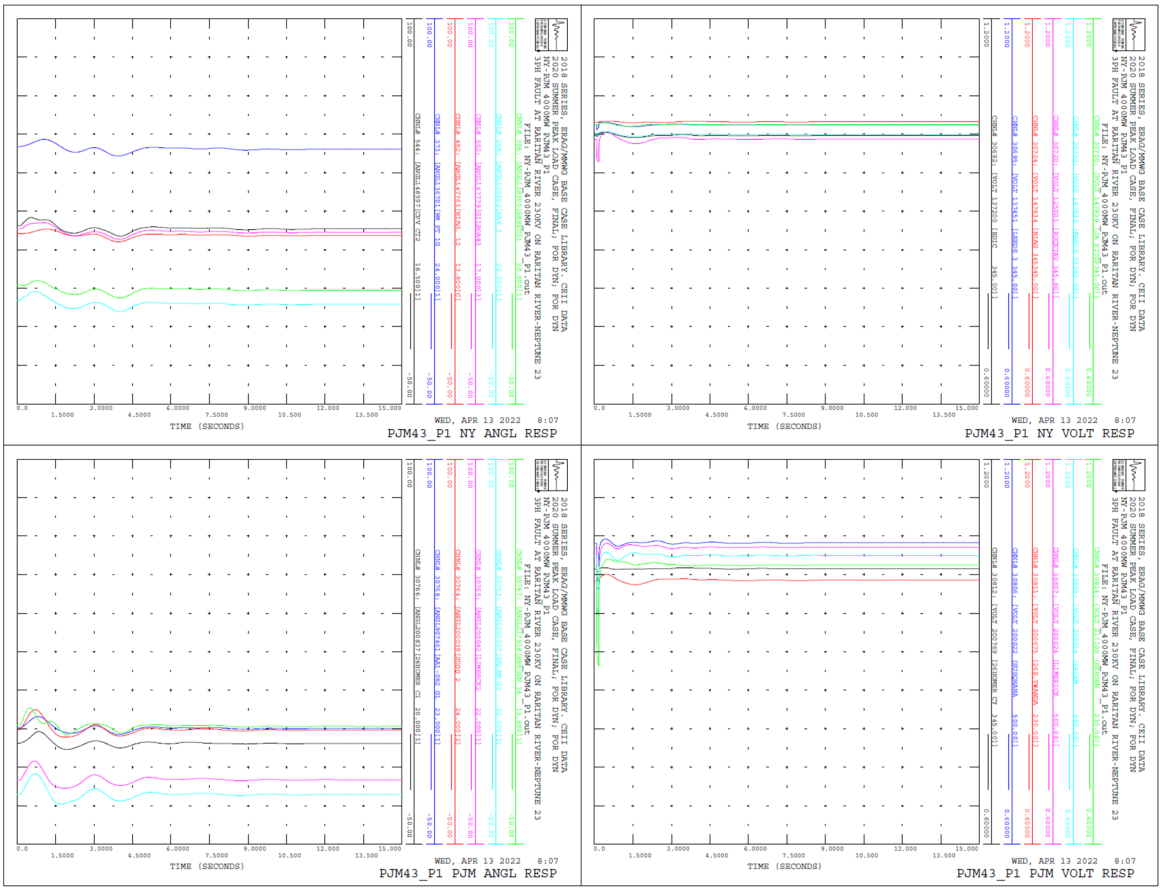


**Figure 104: NY-PJM 4000 MW Contingency PJM43_P1 Angle/Voltage Response Plots**

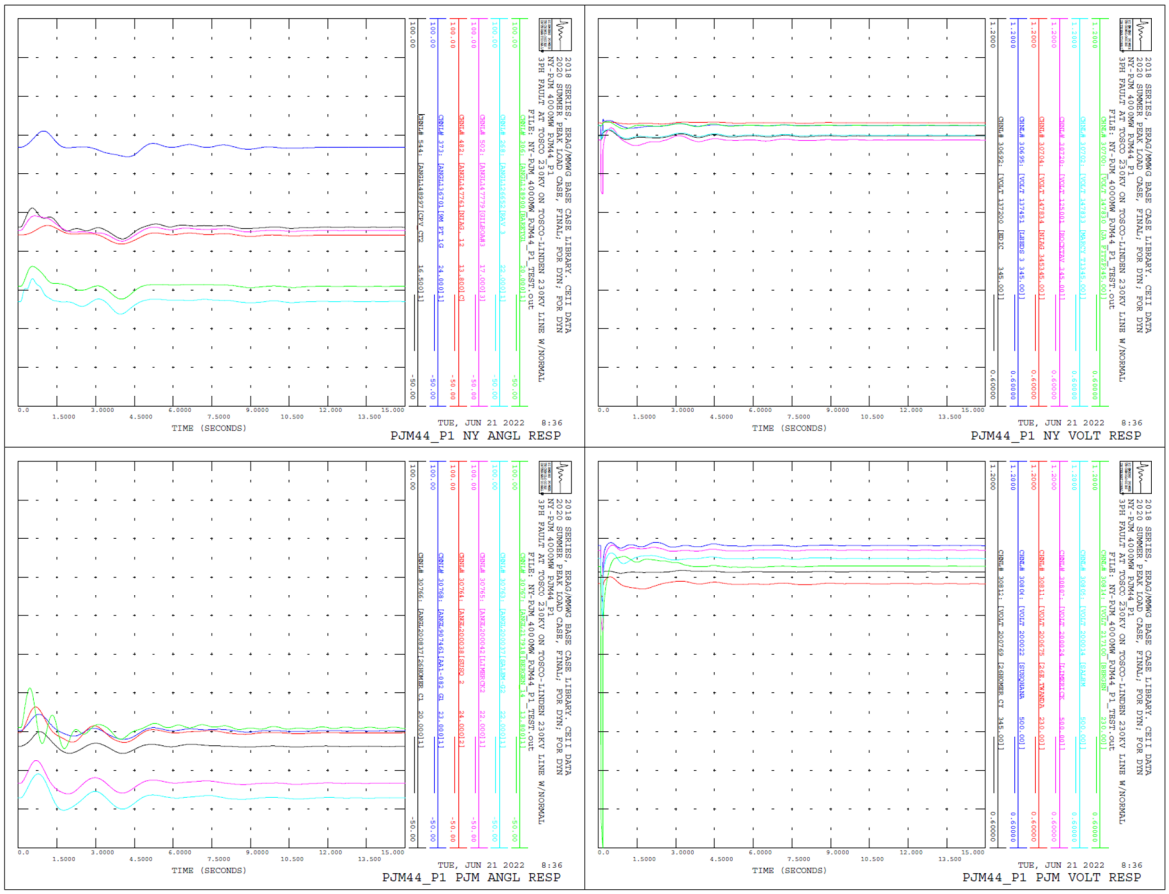


**Figure 105: NY-PJM 4000 MW Contingency PJM44_P1 Angle/Voltage Response Plots**

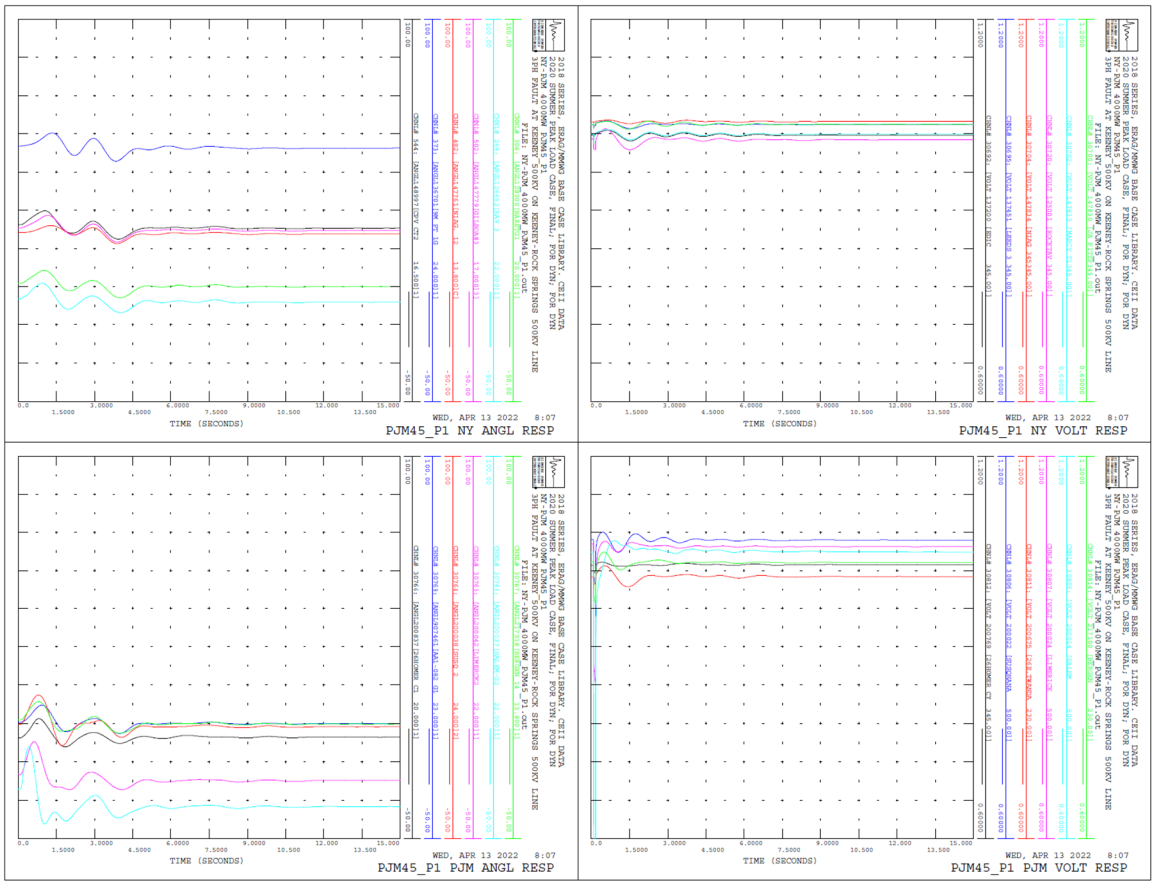


**Figure 106: NY-PJM 4000 MW Contingency PJM45_P1 Angle/Voltage Response Plots**

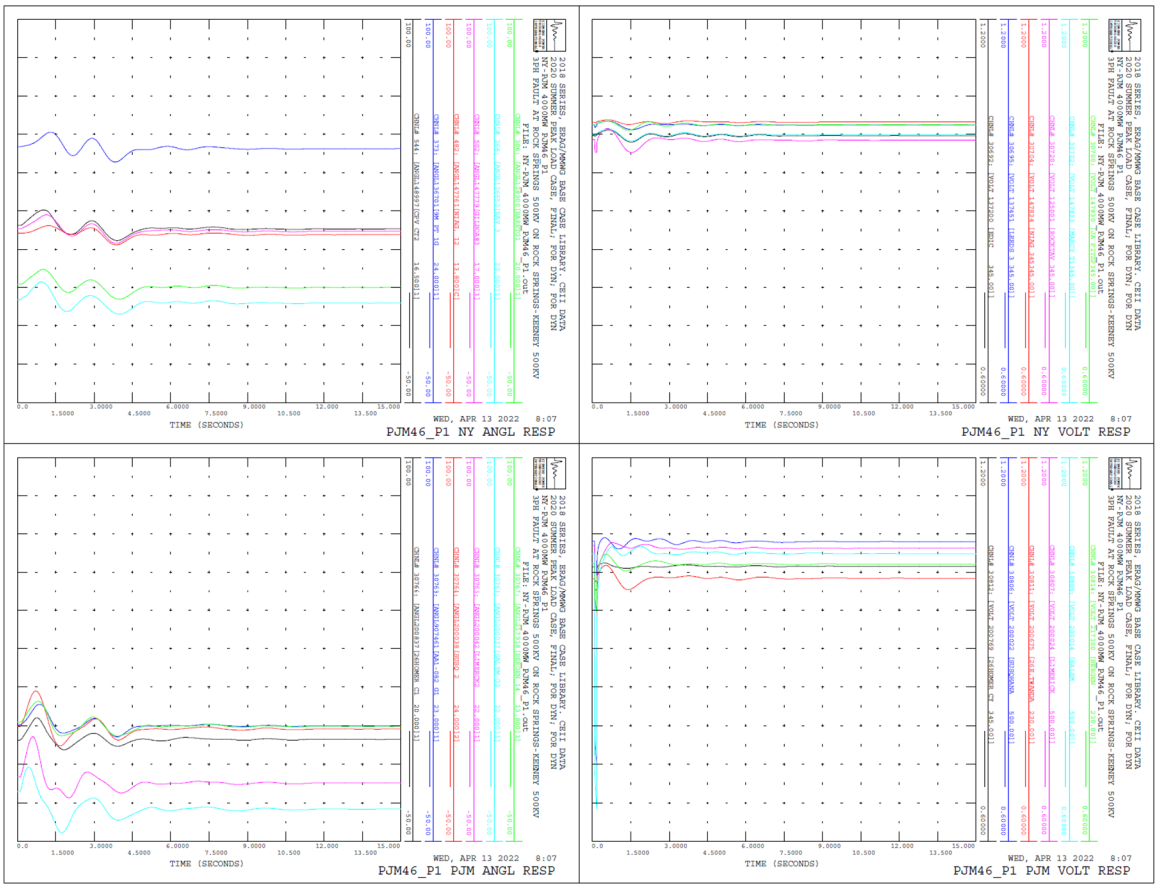


**Figure 107: NY-PJM 4000 MW Contingency PJM46_P1 Angle/Voltage Response Plots**

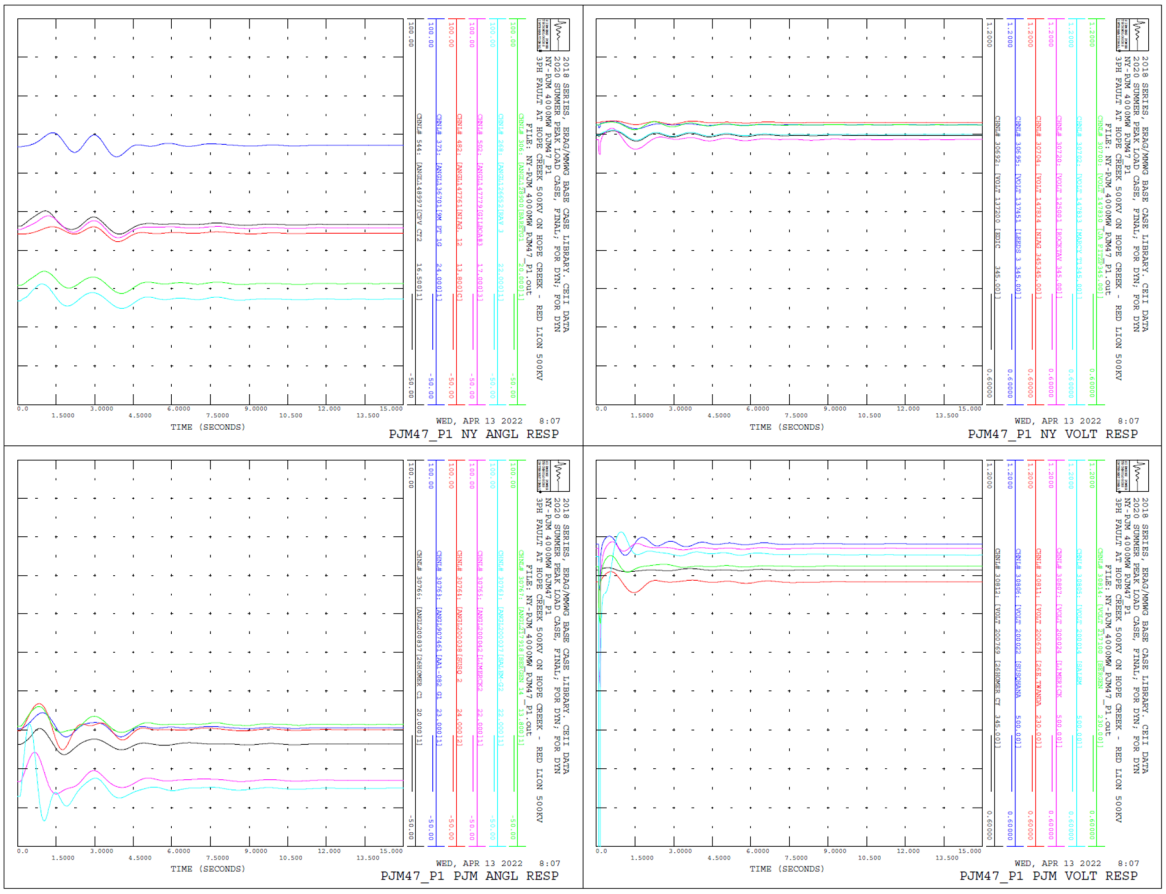


**Figure 108: NY-PJM 4000 MW Contingency PJM47_P1 Angle/Voltage Response Plots**

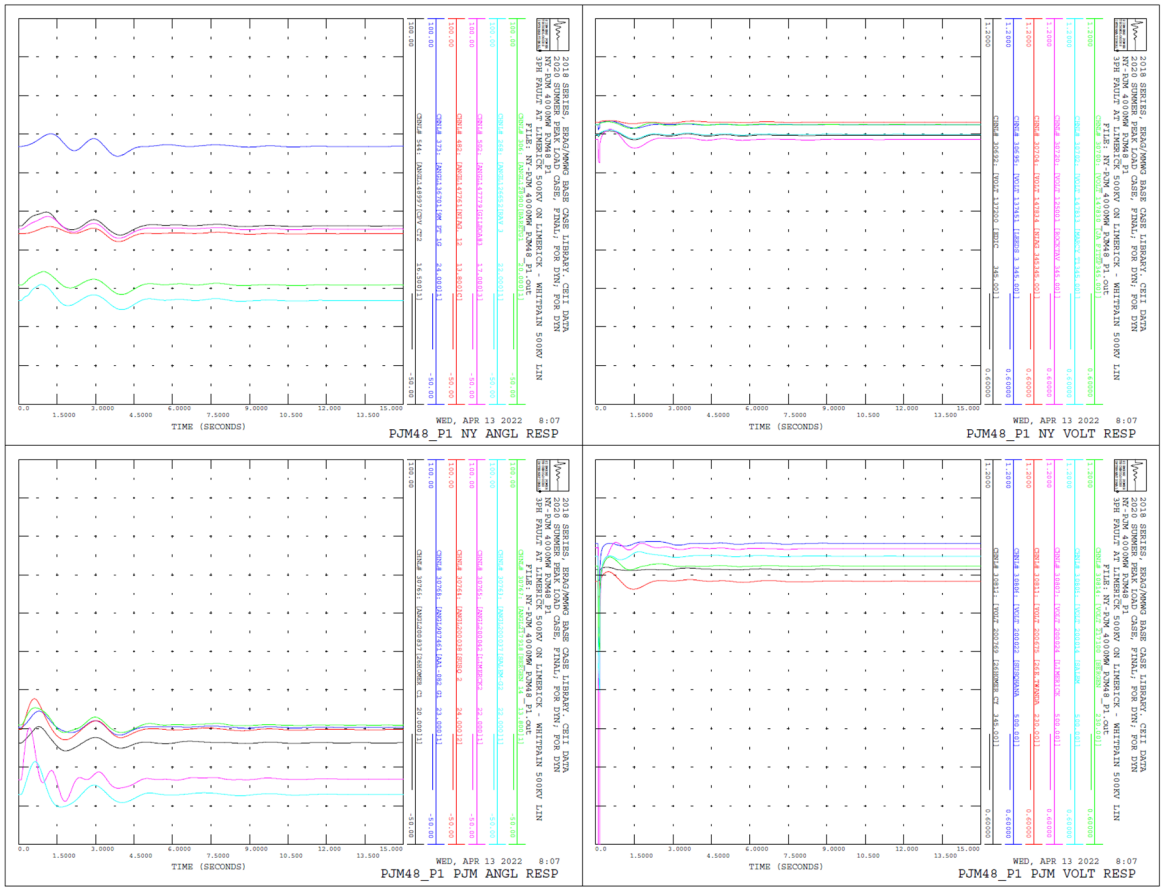


**Figure 109: NY-PJM 4000 MW Contingency PJM48_P1 Angle/Voltage Response Plots**

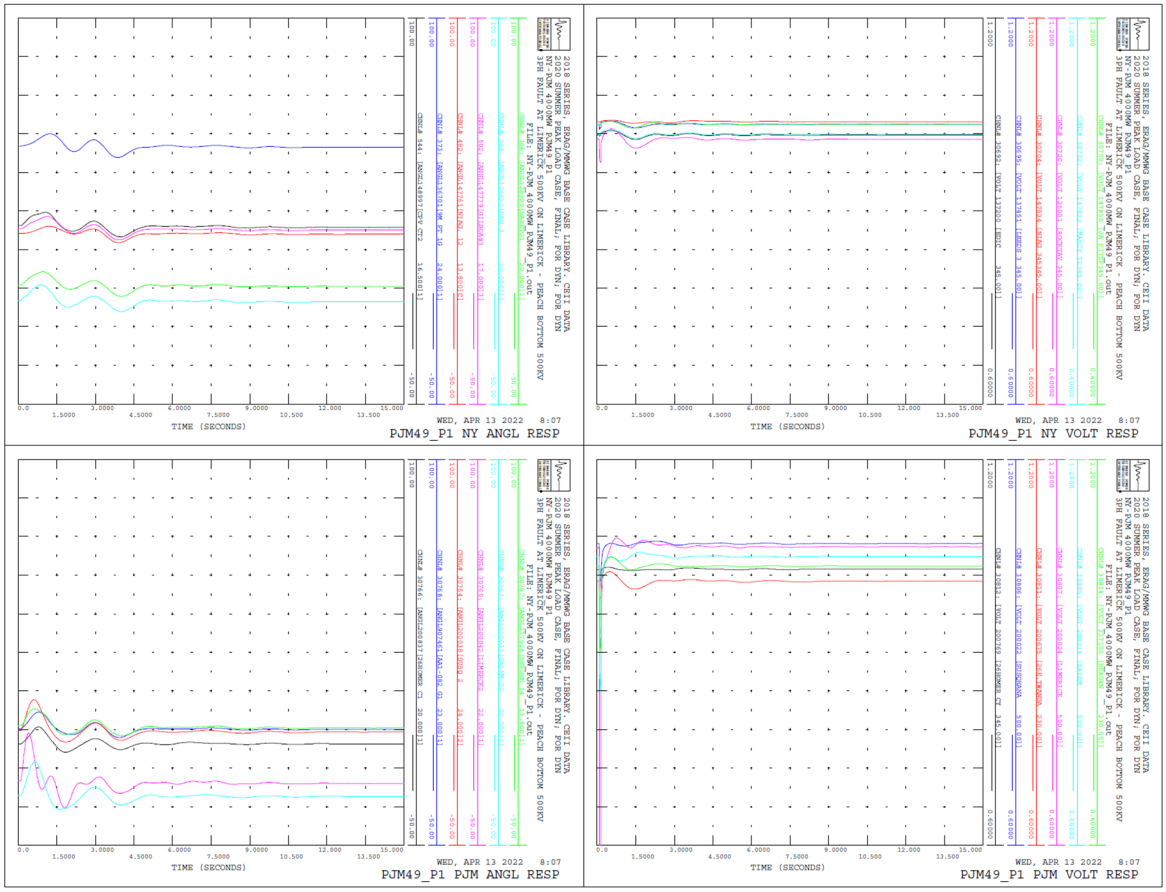


**Figure 110: NY-PJM 4000 MW Contingency PJM49_P1 Angle/Voltage Response Plots**

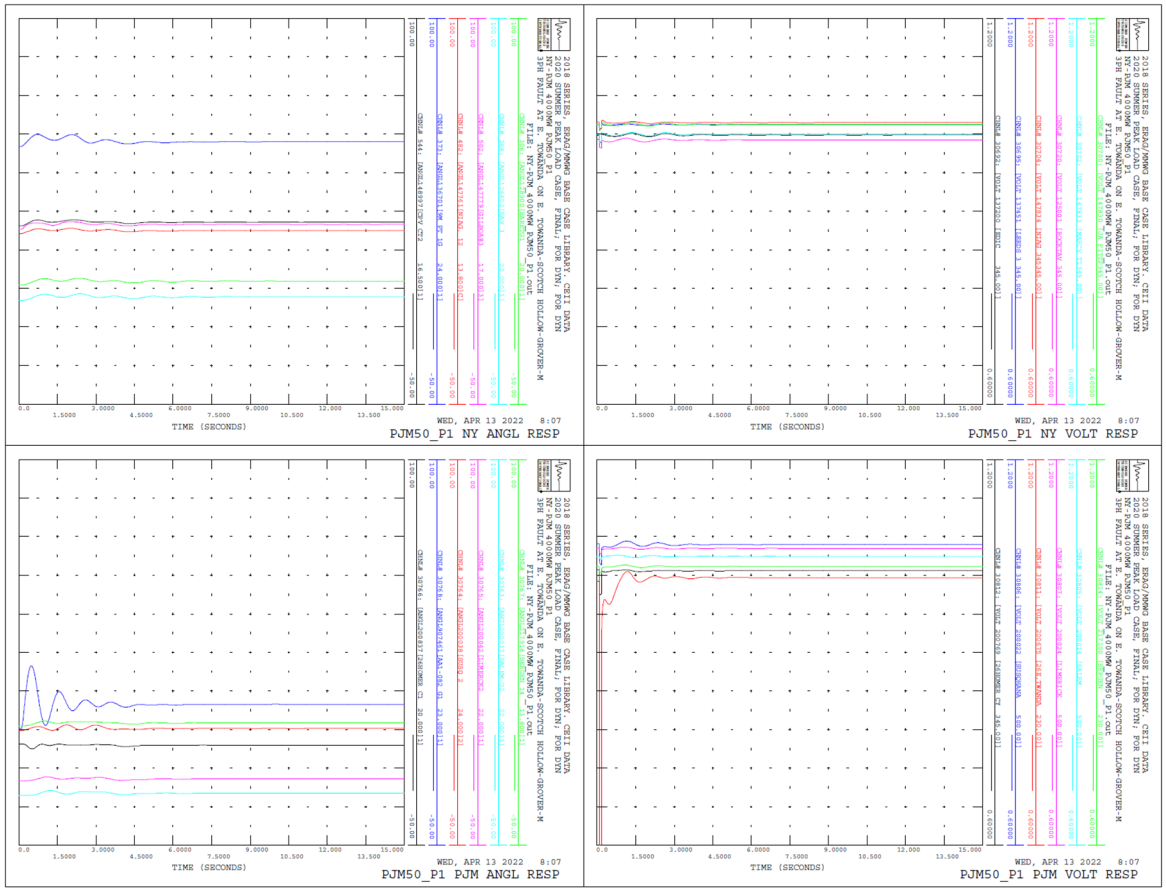


**Figure 111: NY-PJM 4000 MW Contingency PJM50_P1 Angle/Voltage Response Plots**

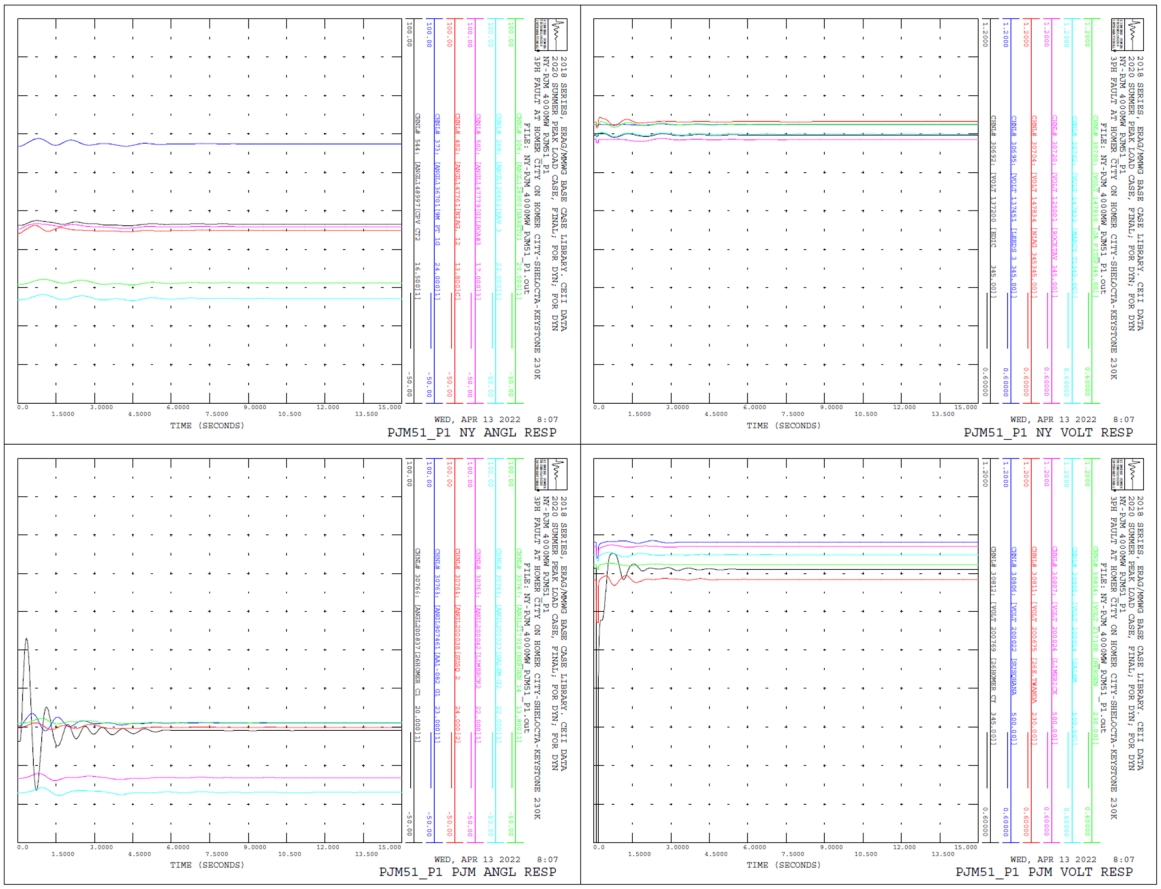


**Figure 112: NY-PJM 4000 MW Contingency PJM51_P1 Angle/Voltage Response Plots**

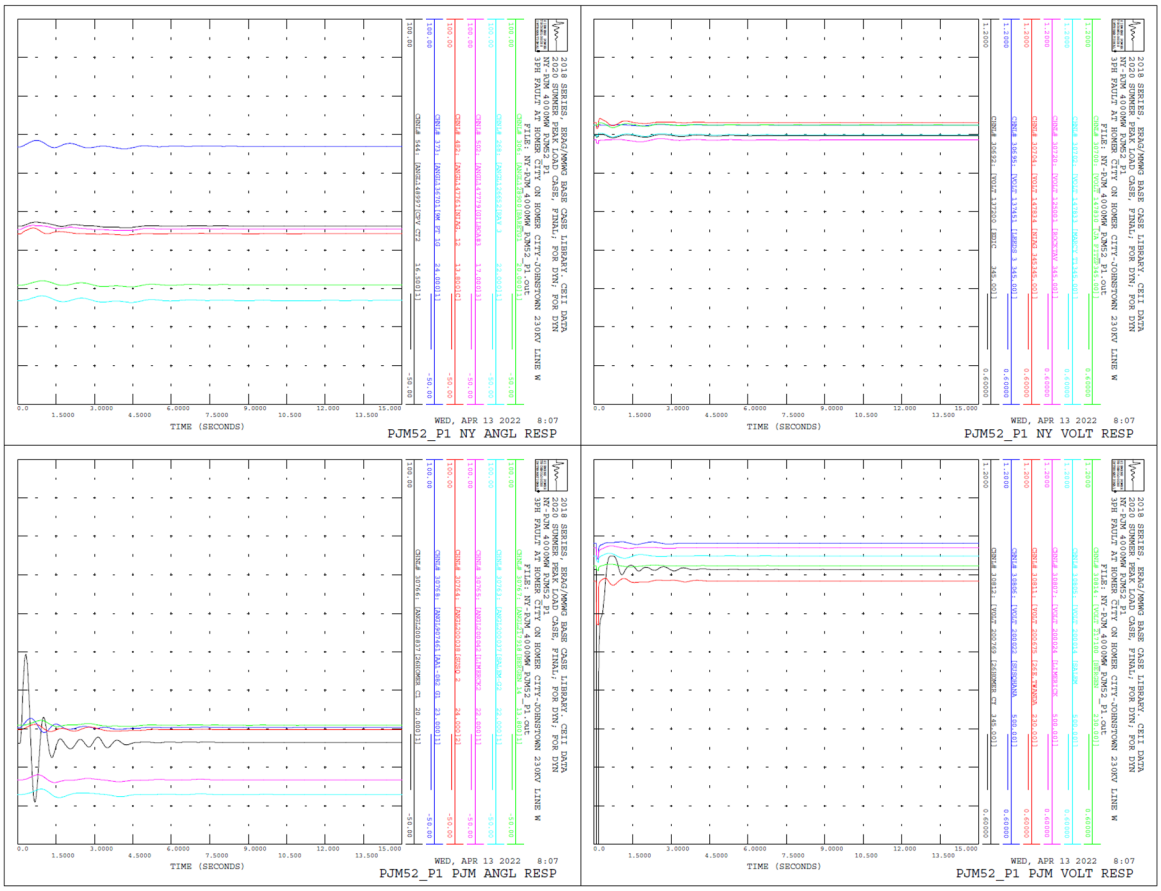


**Figure 113: NY-PJM 4000 MW Contingency PJM52_P1 Angle/Voltage Response Plots**

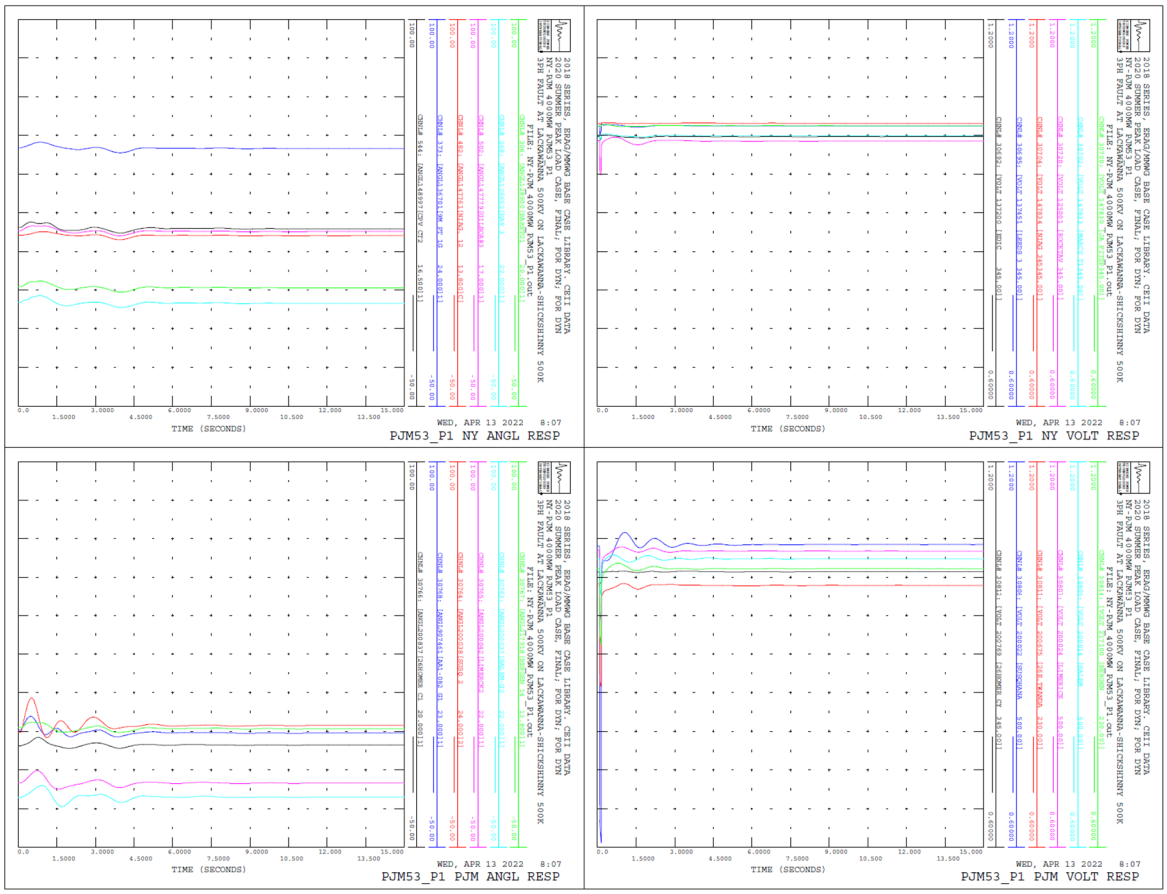


**Figure 114: NY-PJM 4000 MW Contingency PJM53_P1 Angle/Voltage Response Plots**

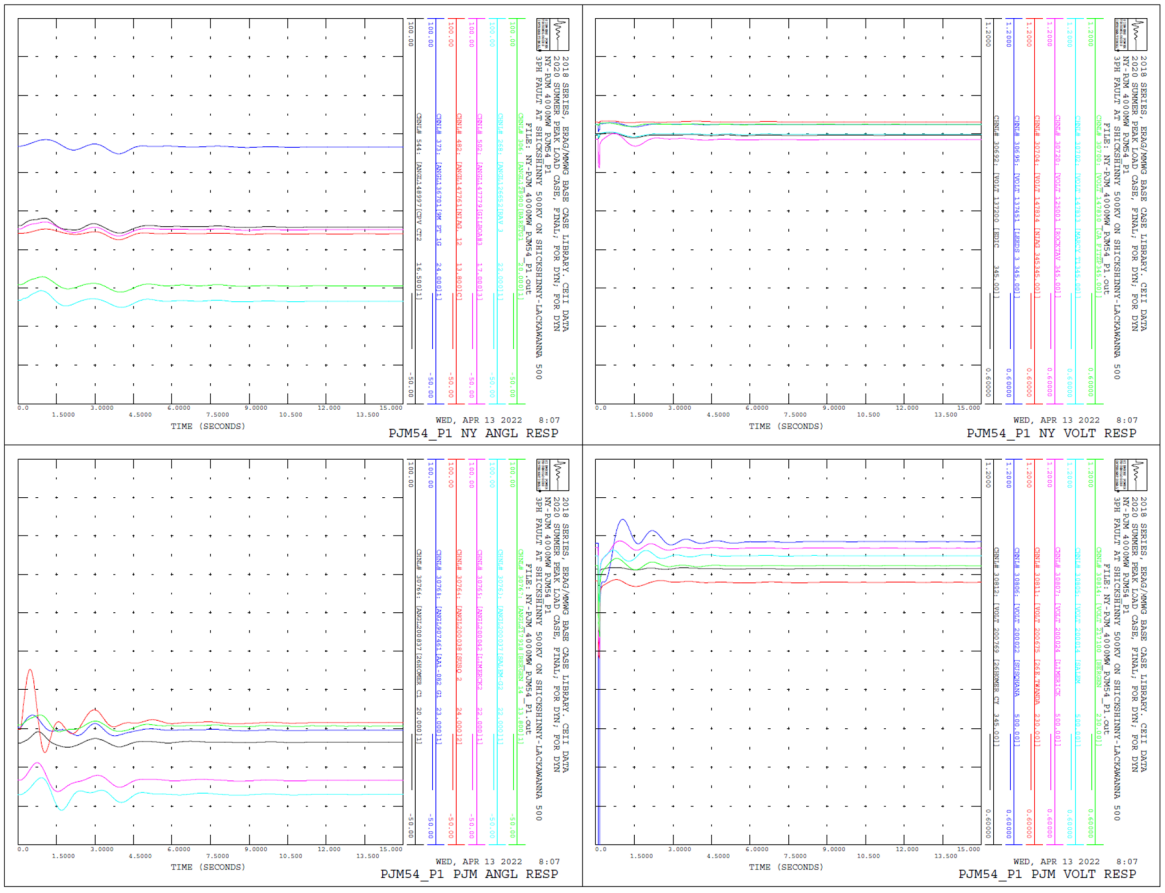


**Figure 115: NY-PJM 4000 MW Contingency PJM54_P1 Angle/Voltage Response Plots**

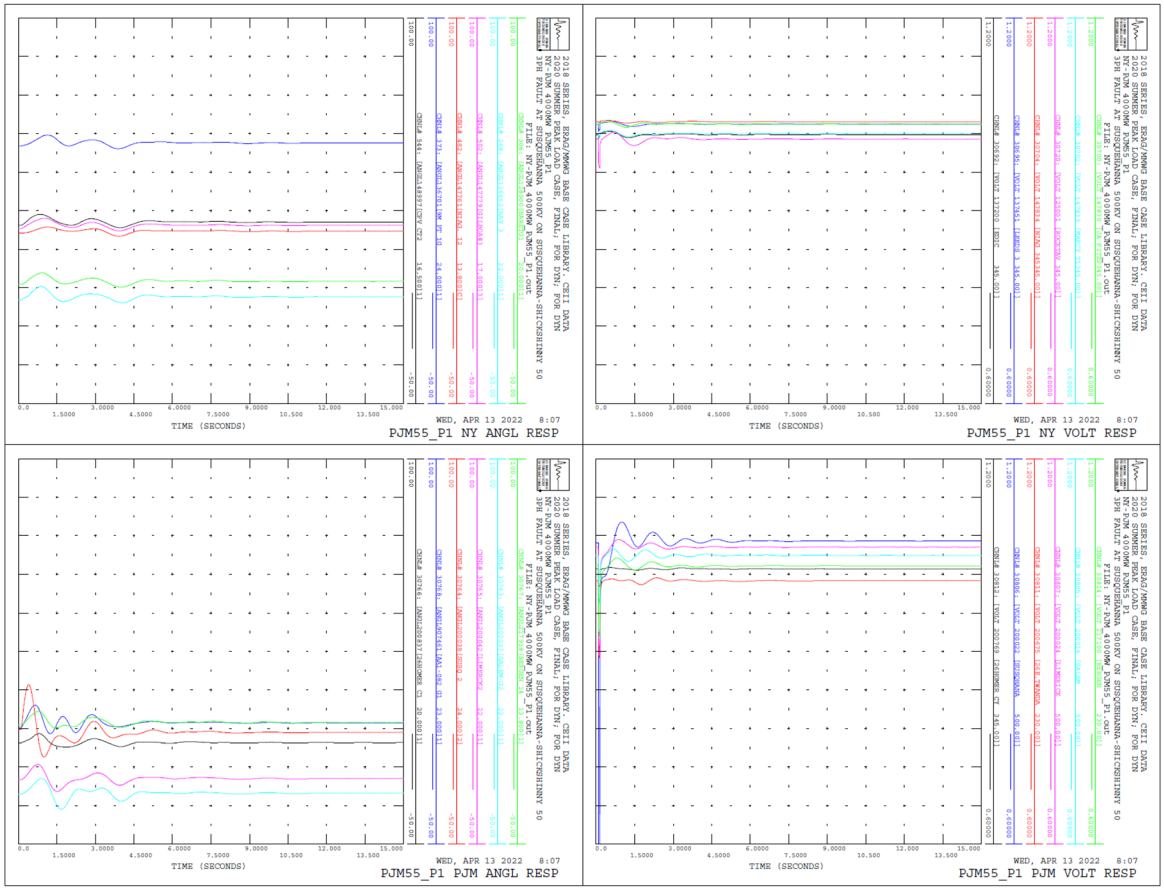


**Figure 116: NY-PJM 4000 MW Contingency PJM55_P1 Angle/Voltage Response Plots**

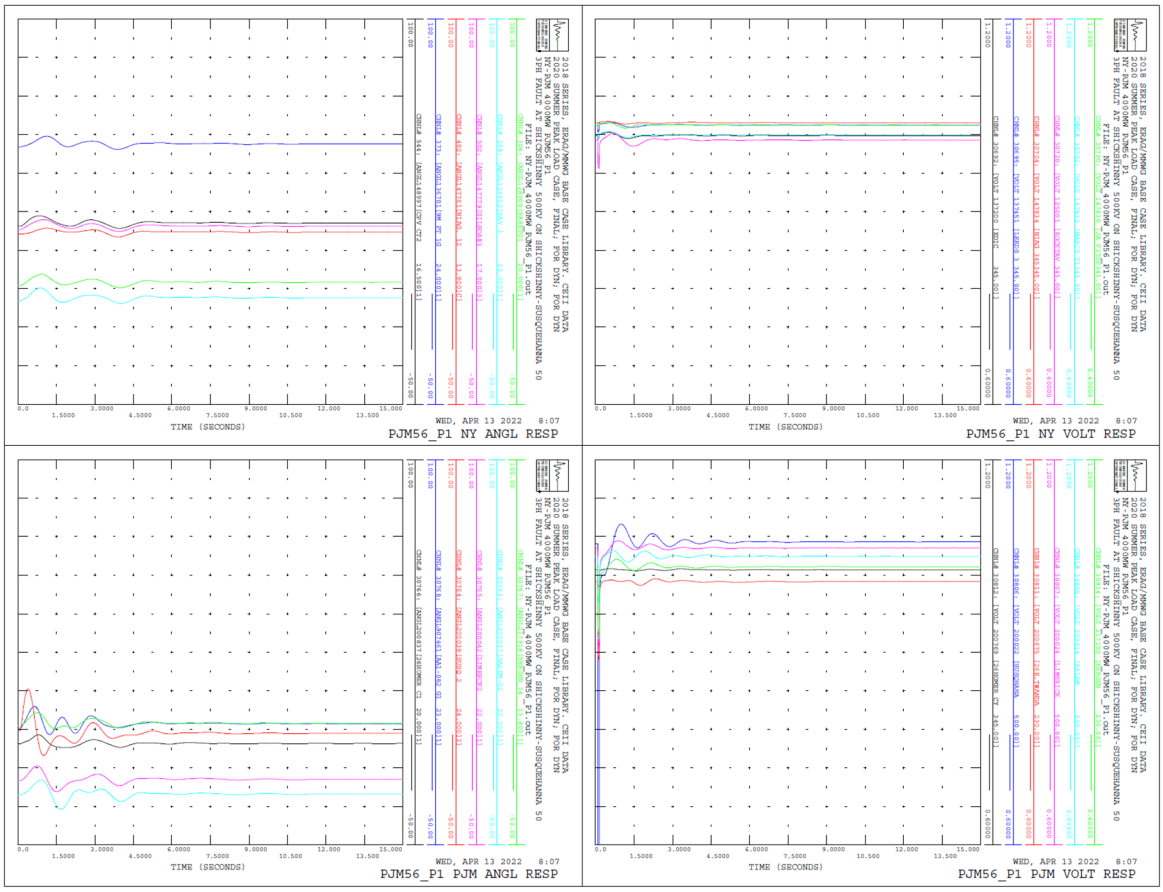


**Figure 117: NY-PJM 4000 MW Contingency PJM56_P1 Angle/Voltage Response Plots**

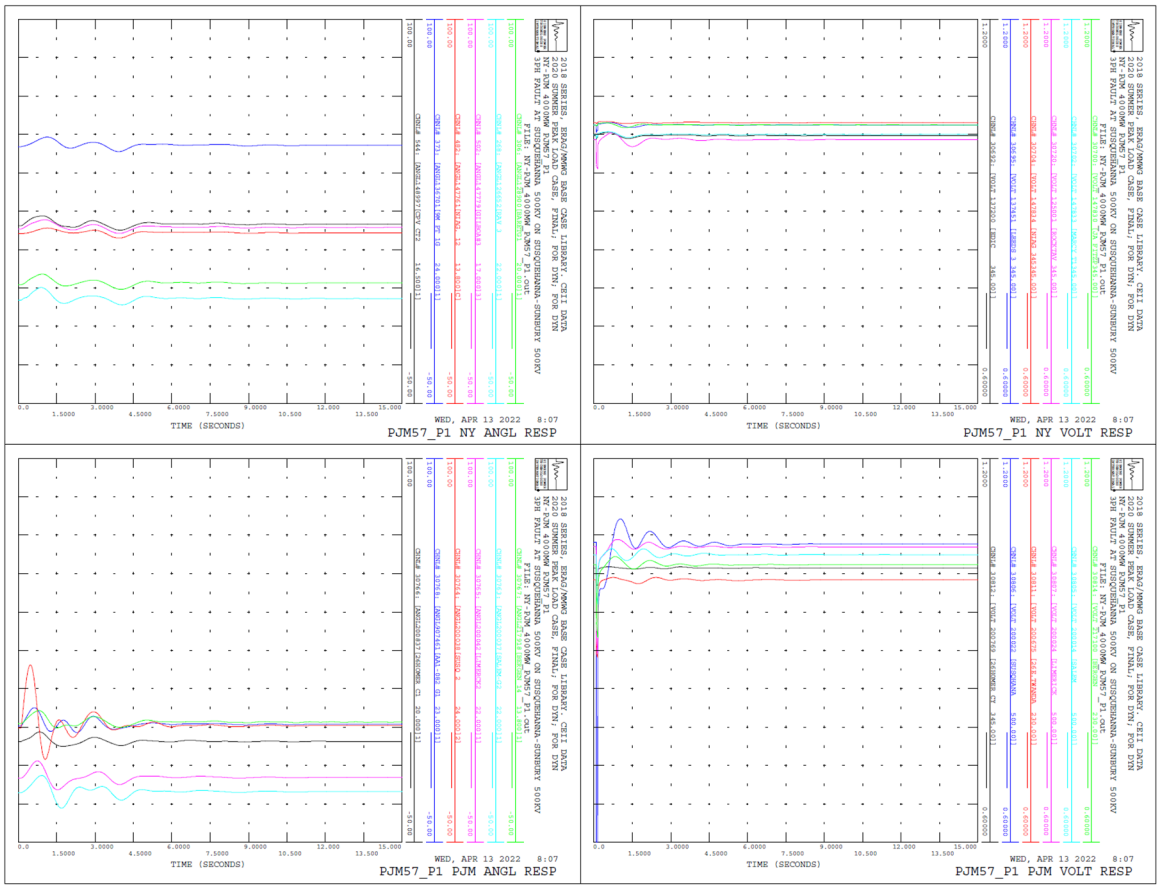


**Figure 118: NY-PJM 4000 MW Contingency PJM57_P1 Angle/Voltage Response Plots**

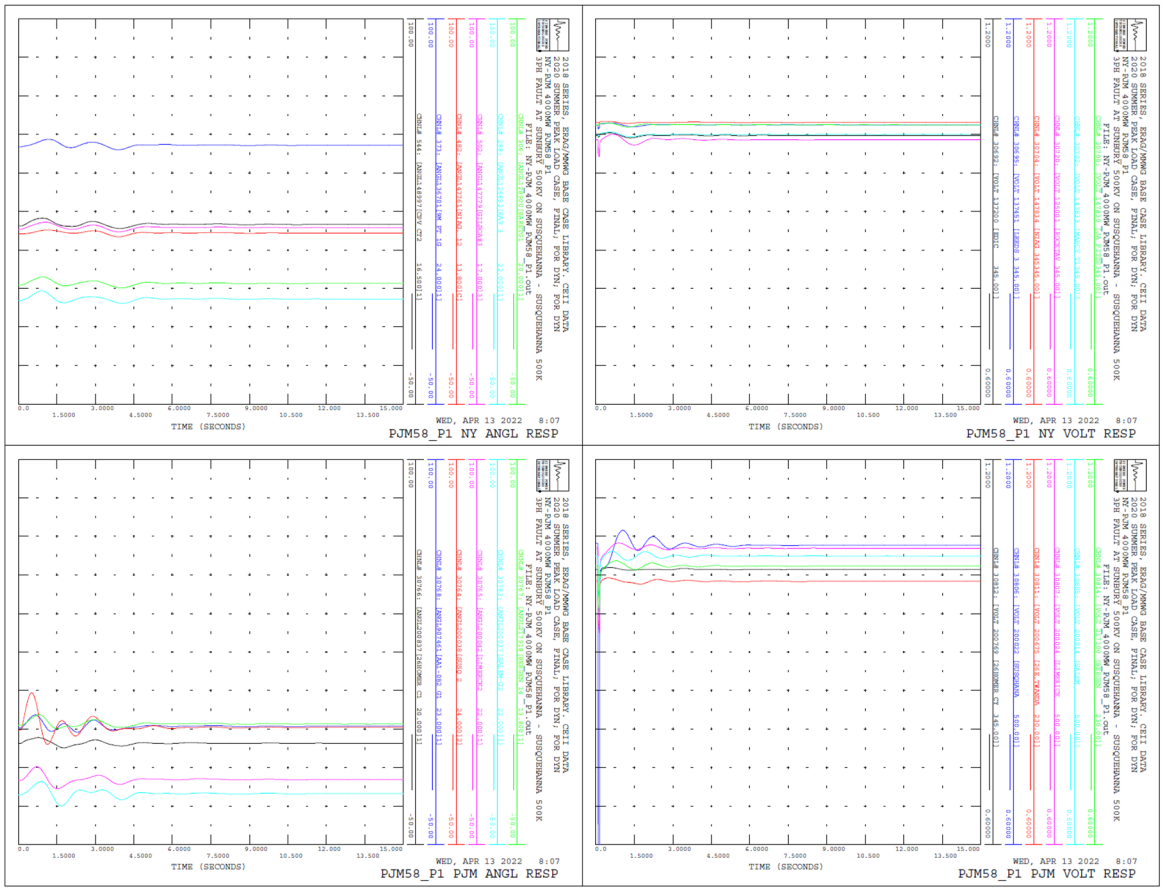


**Figure 119: NY-PJM 4000 MW Contingency PJM58_P1 Angle/Voltage Response Plots**

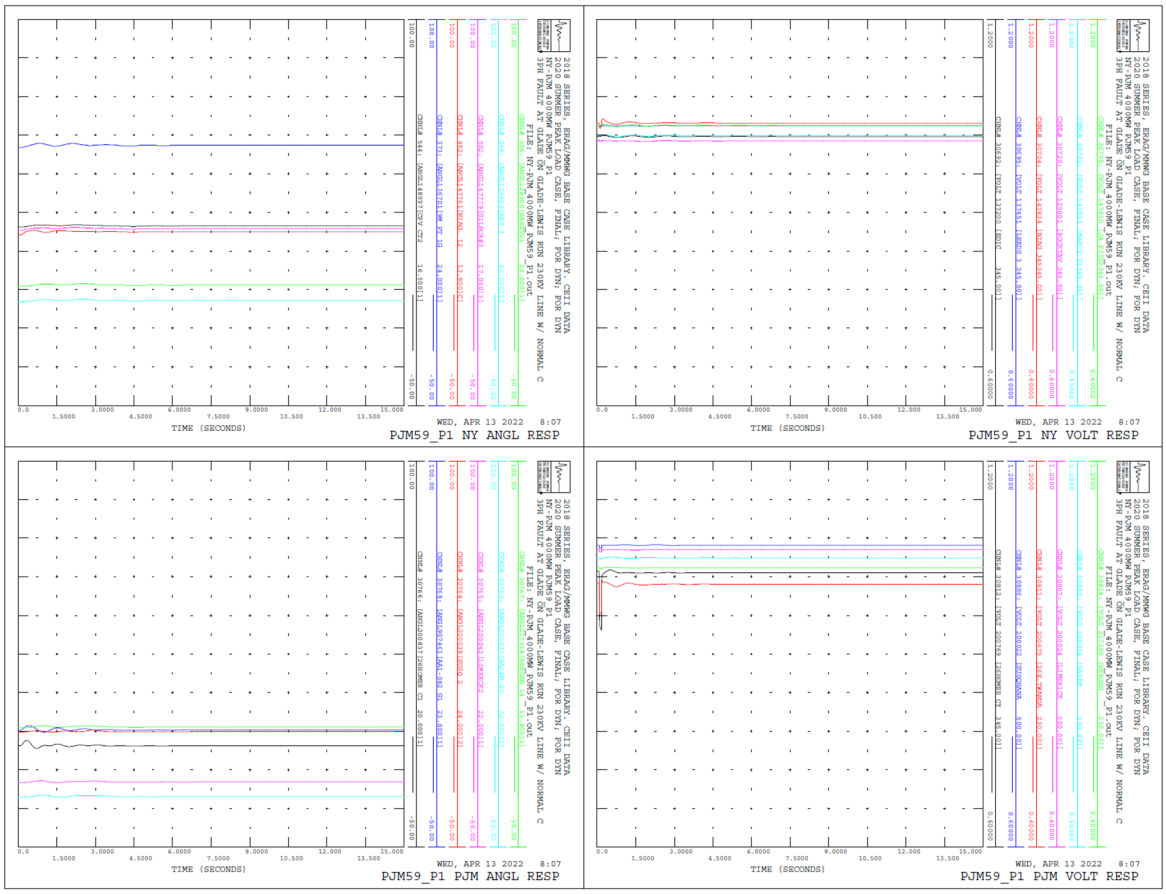


**Figure 120: NY-PJM 4000 MW Contingency PJM59_P1 Angle/Voltage Response Plots**

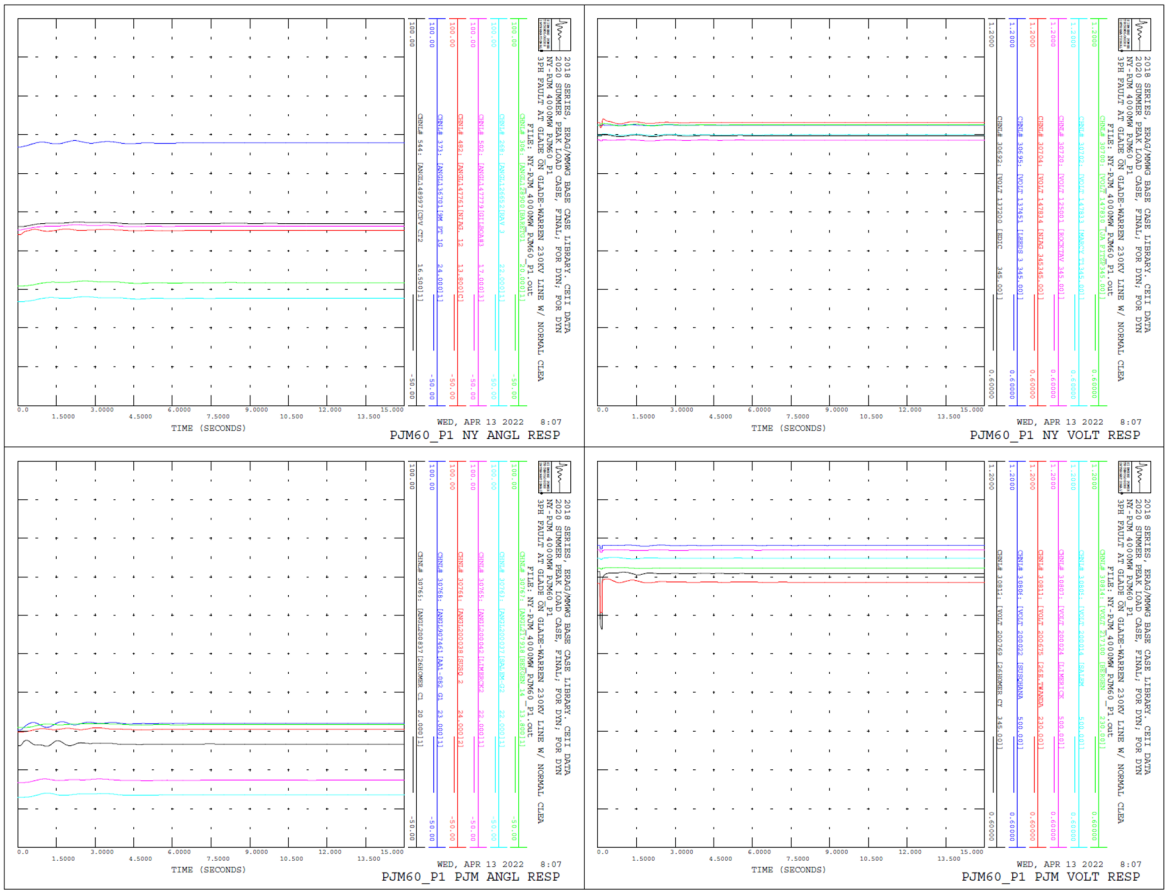


**Figure 121: NY-PJM 4000 MW Contingency PJM60_P1 Angle/Voltage Response Plots**

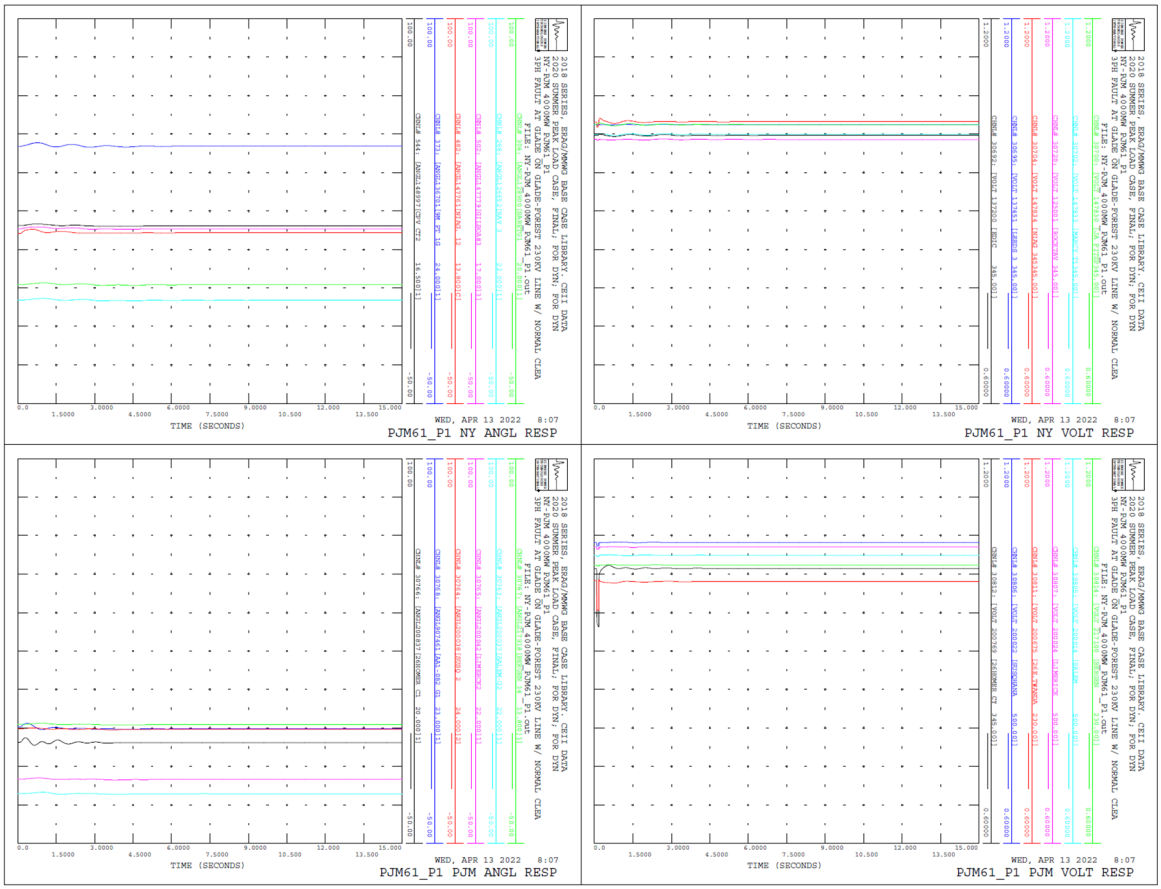


**Figure 122: NY-PJM 4000 MW Contingency PJM61_P1 Angle/Voltage Response Plots**

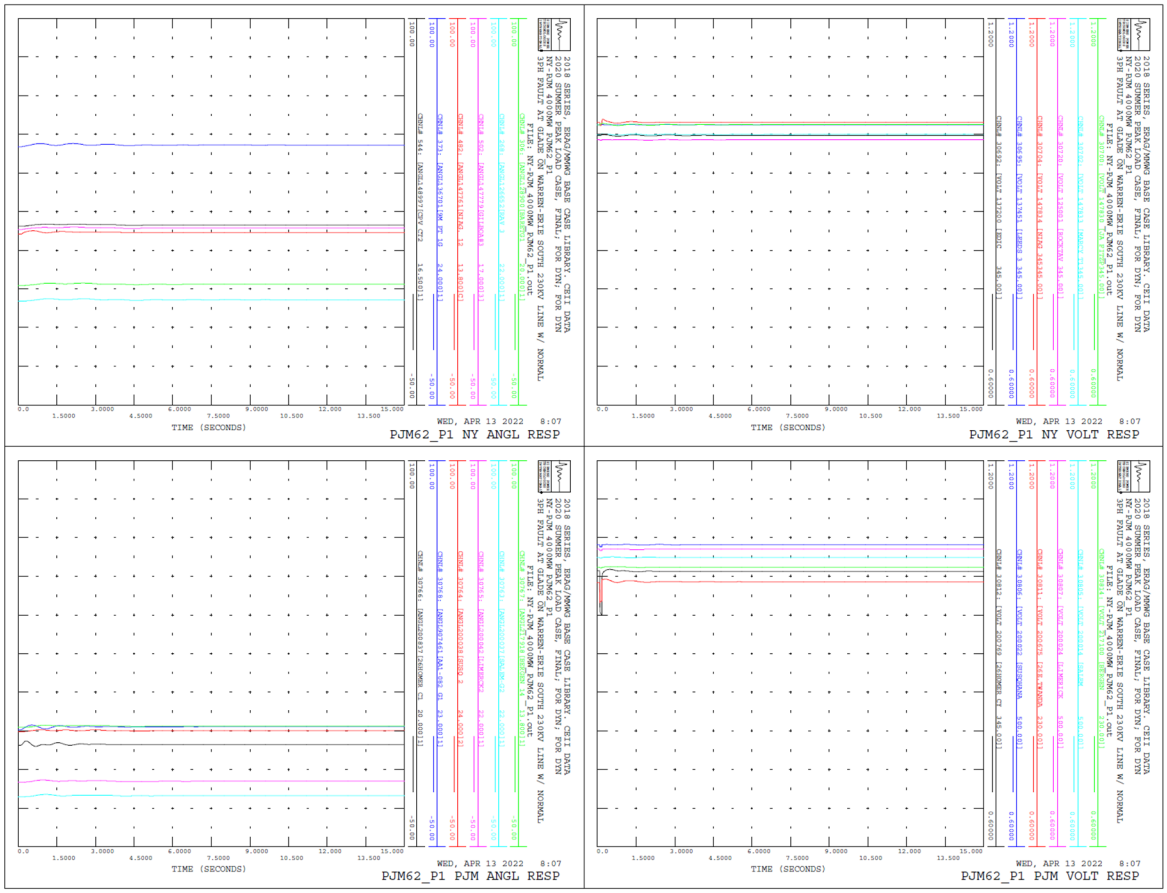


**Figure 123: NY-PJM 4000 MW Contingency PJM62_P1 Angle/Voltage Response Plots**

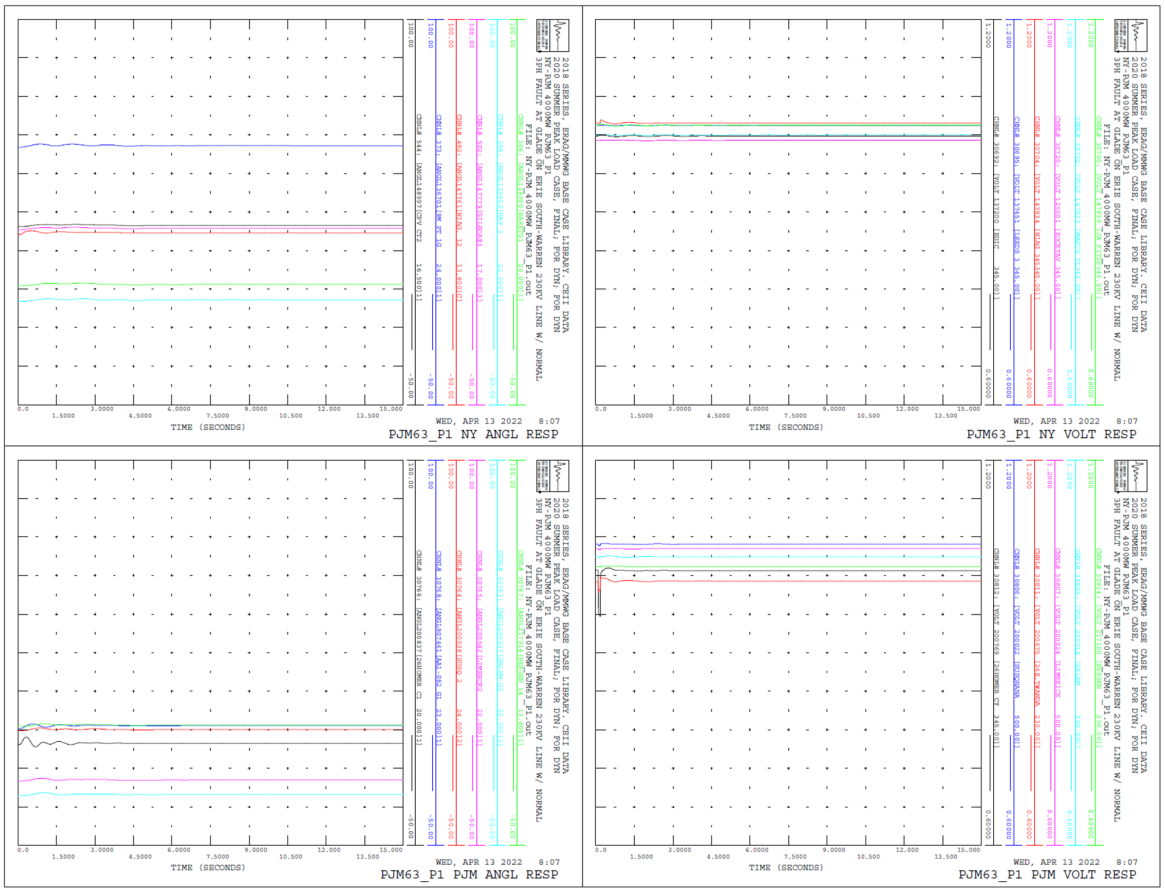


**Figure 124: NY-PJM 4000 MW Contingency PJM63_P1 Angle/Voltage Response Plots**

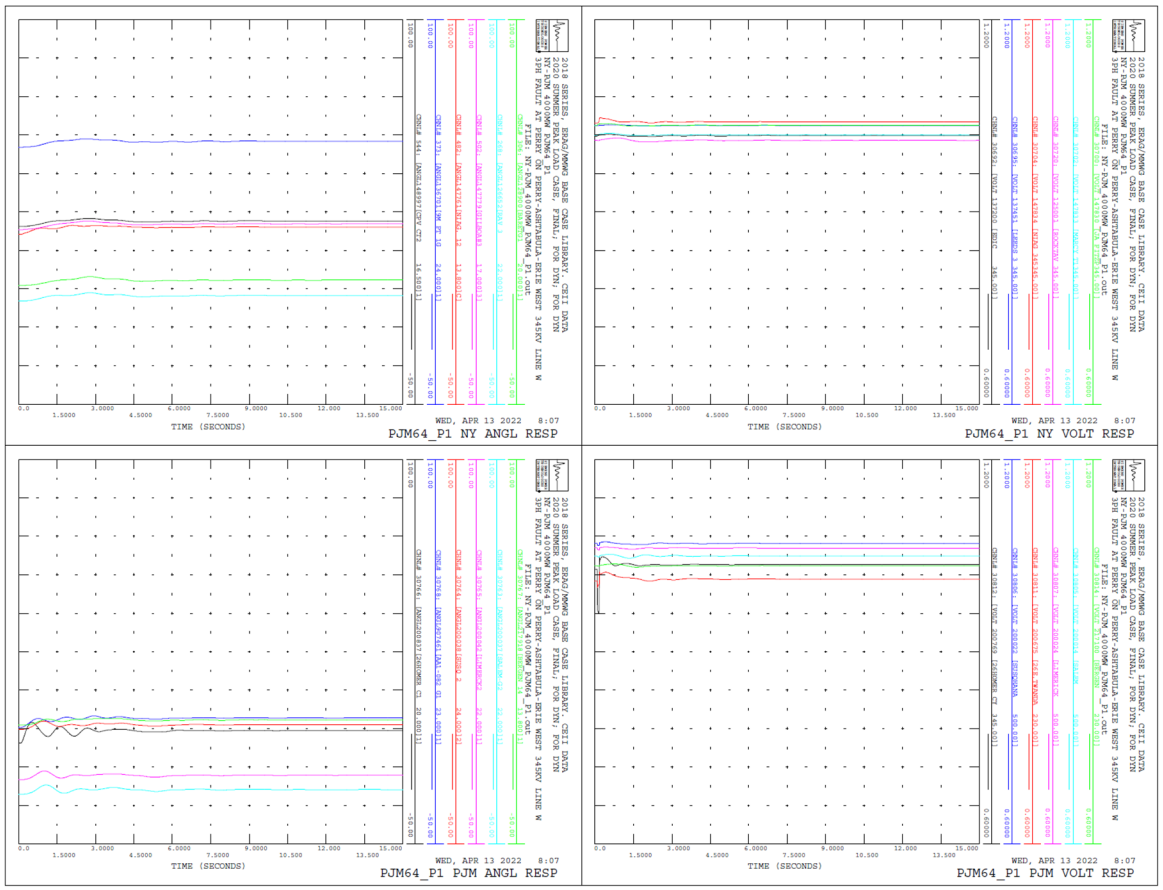


**Figure 125: NY-PJM 4000 MW Contingency PJM64_P1 Angle/Voltage Response Plots**

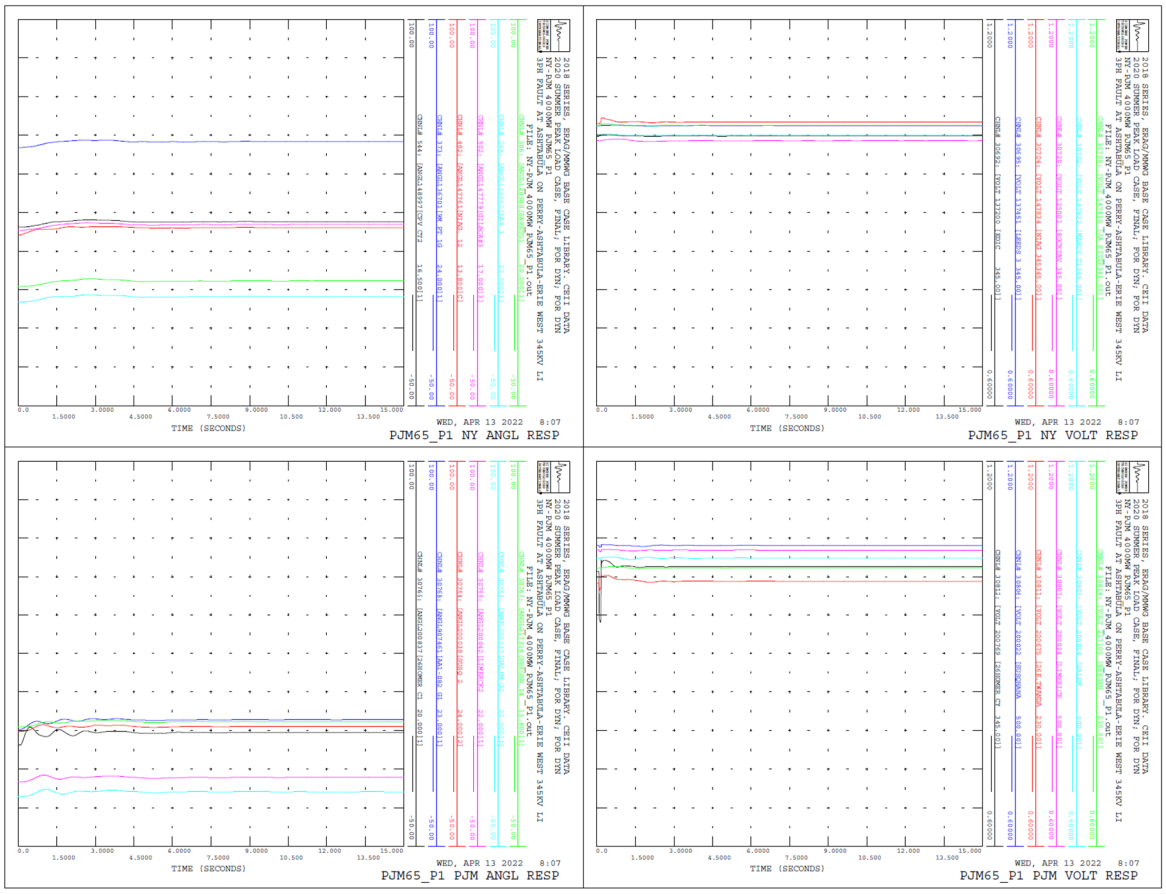


**Figure 126: NY-PJM 4000 MW Contingency PJM65_P1 Angle/Voltage Response Plots**

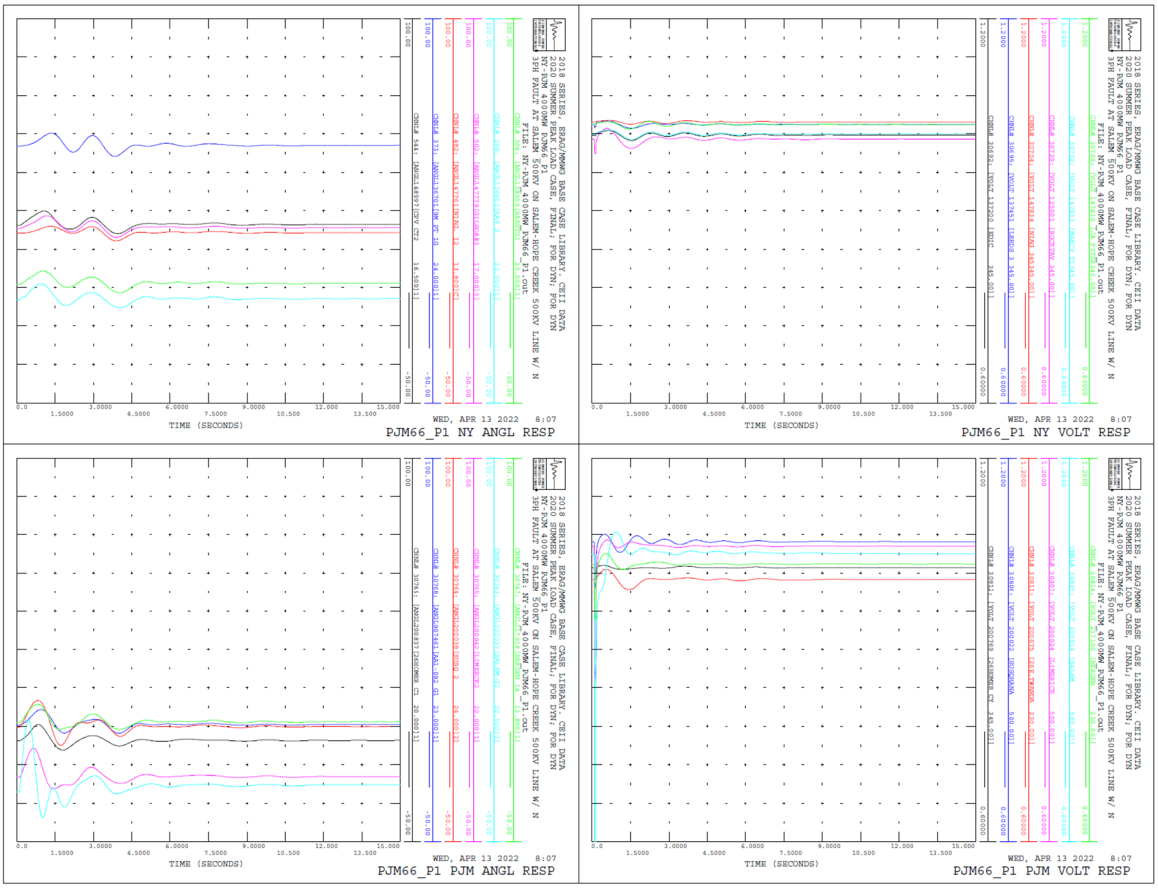


**Figure 127: NY-PJM 4000 MW Contingency PJM66_P1 Angle/Voltage Response Plots**

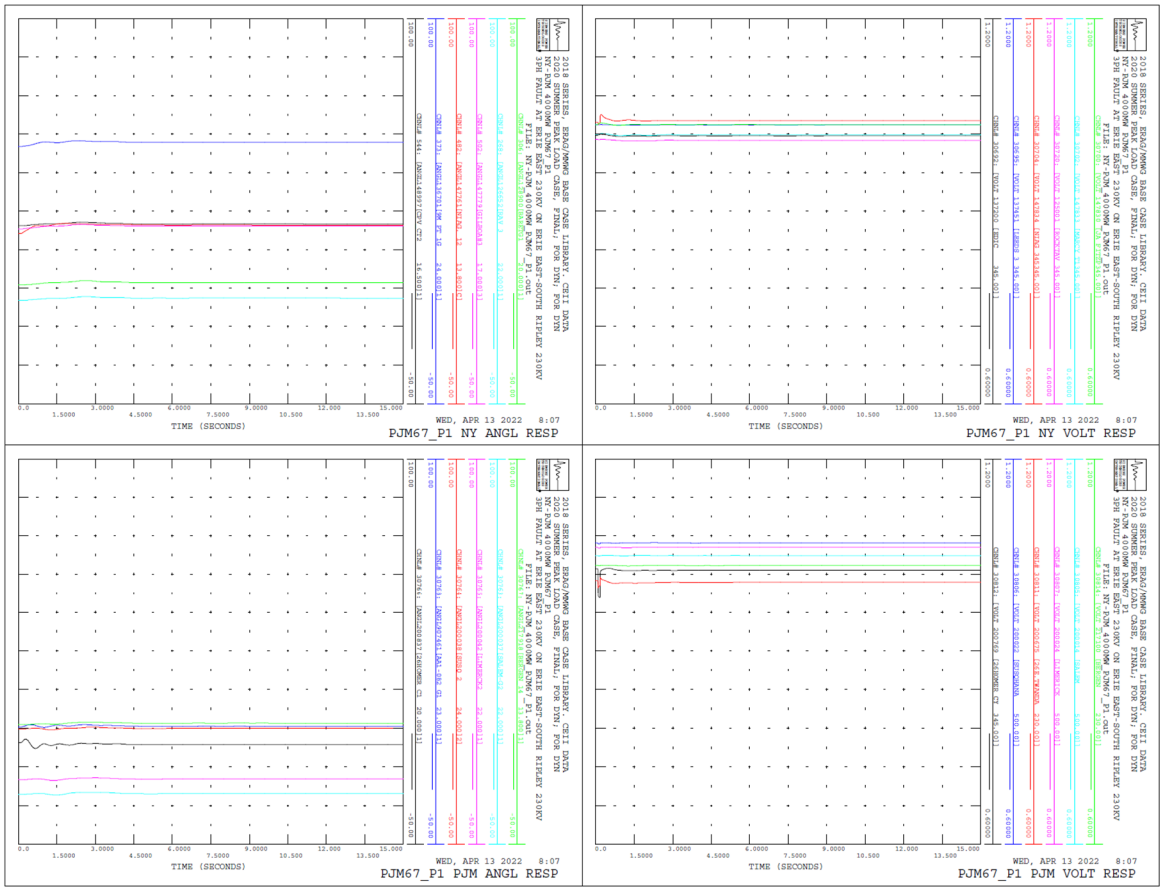


**Figure 128: NY-PJM 4000 MW Contingency PJM67_P1 Angle/Voltage Response Plots**

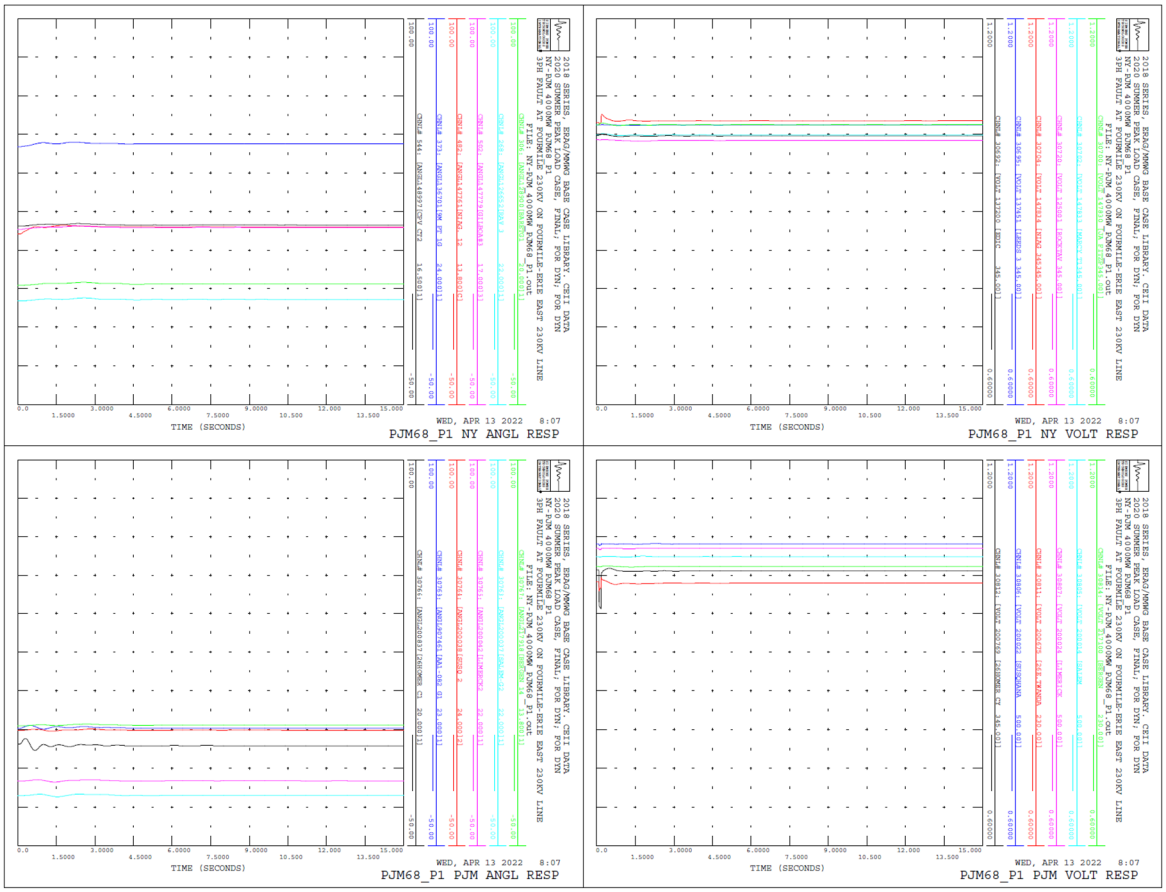


**Figure 129: NY-PJM 4000 MW Contingency PJM68_P1 Angle/Voltage Response Plots**

# Appendix B: PJM – New York 4,765 MW Transfer

### ANGLE AND VOLTAGE RESPONSES

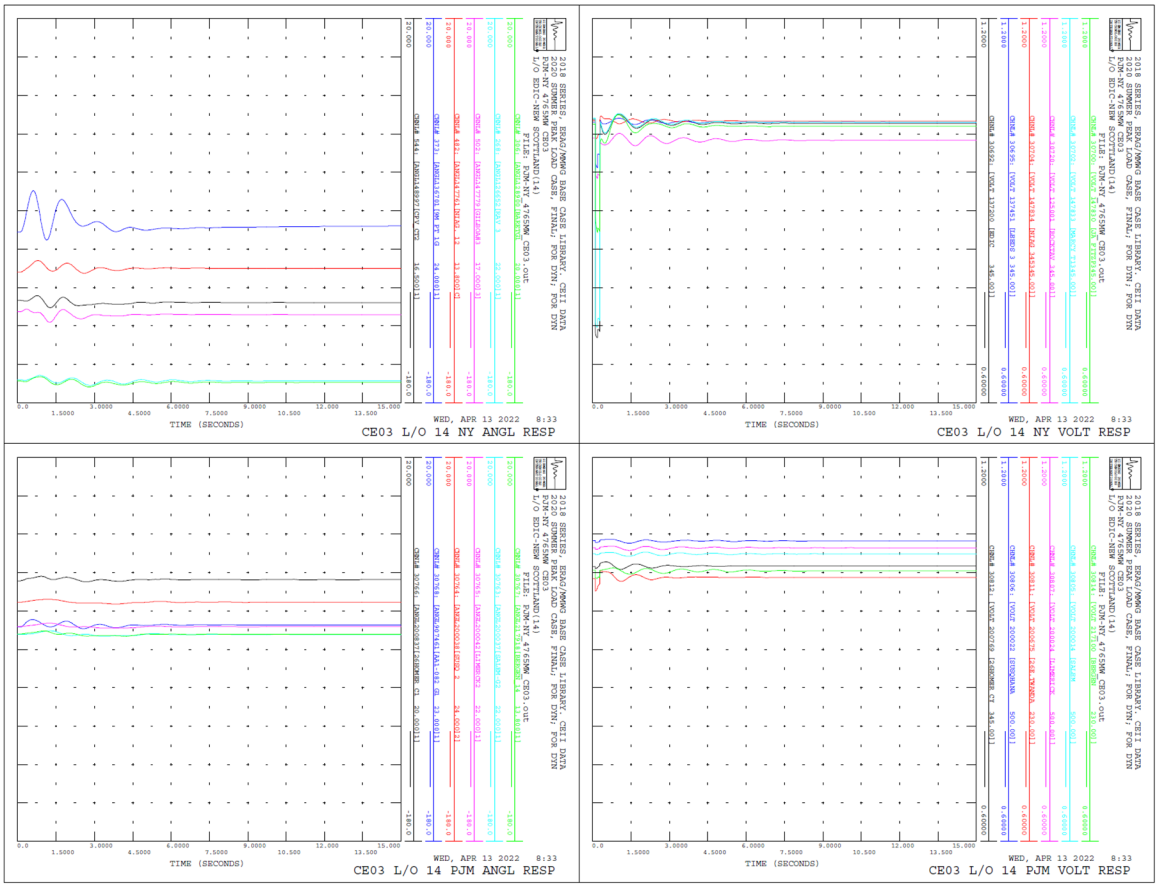


**Figure 130: PJM-NY 4765 MW Contingency CE03 Angle/Voltage Response Plots**

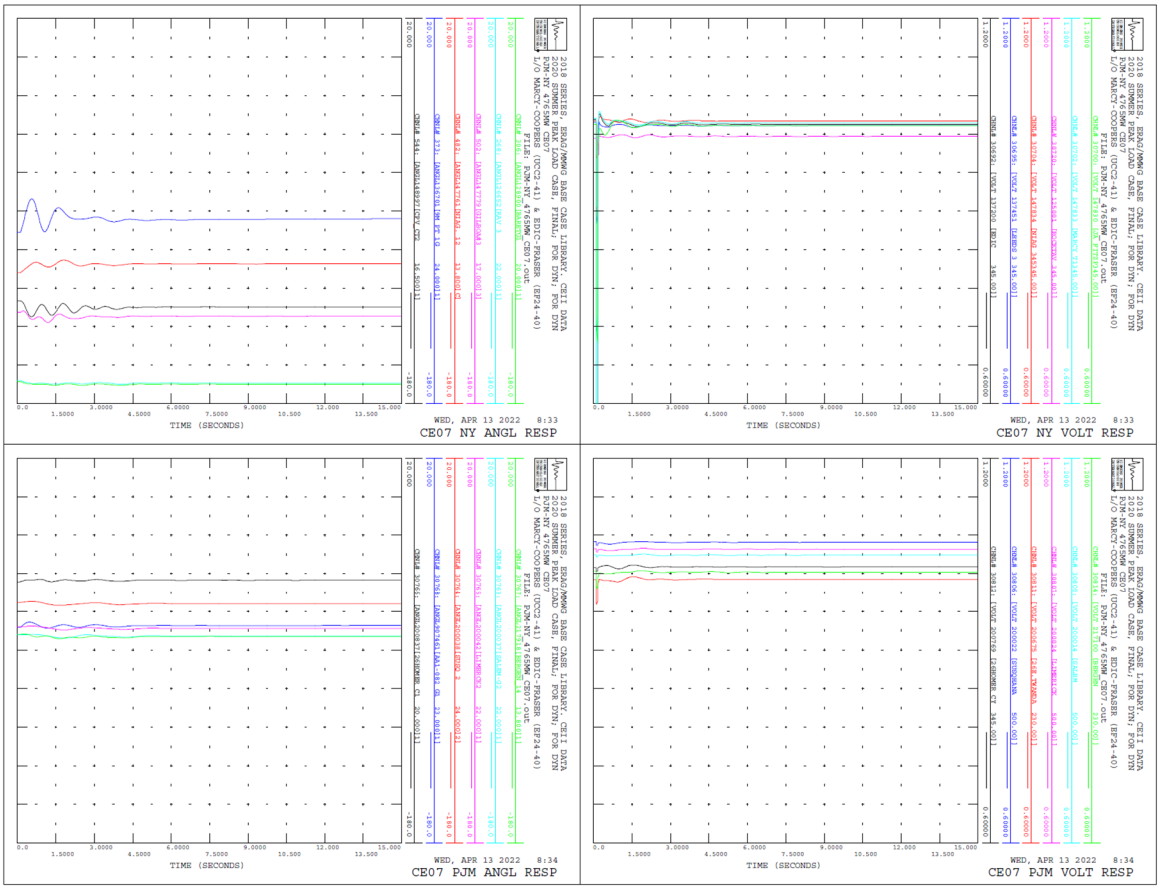


**Figure 131: PJM-NY 4765 MW Contingency CE07 Angle/Voltage Response Plots**

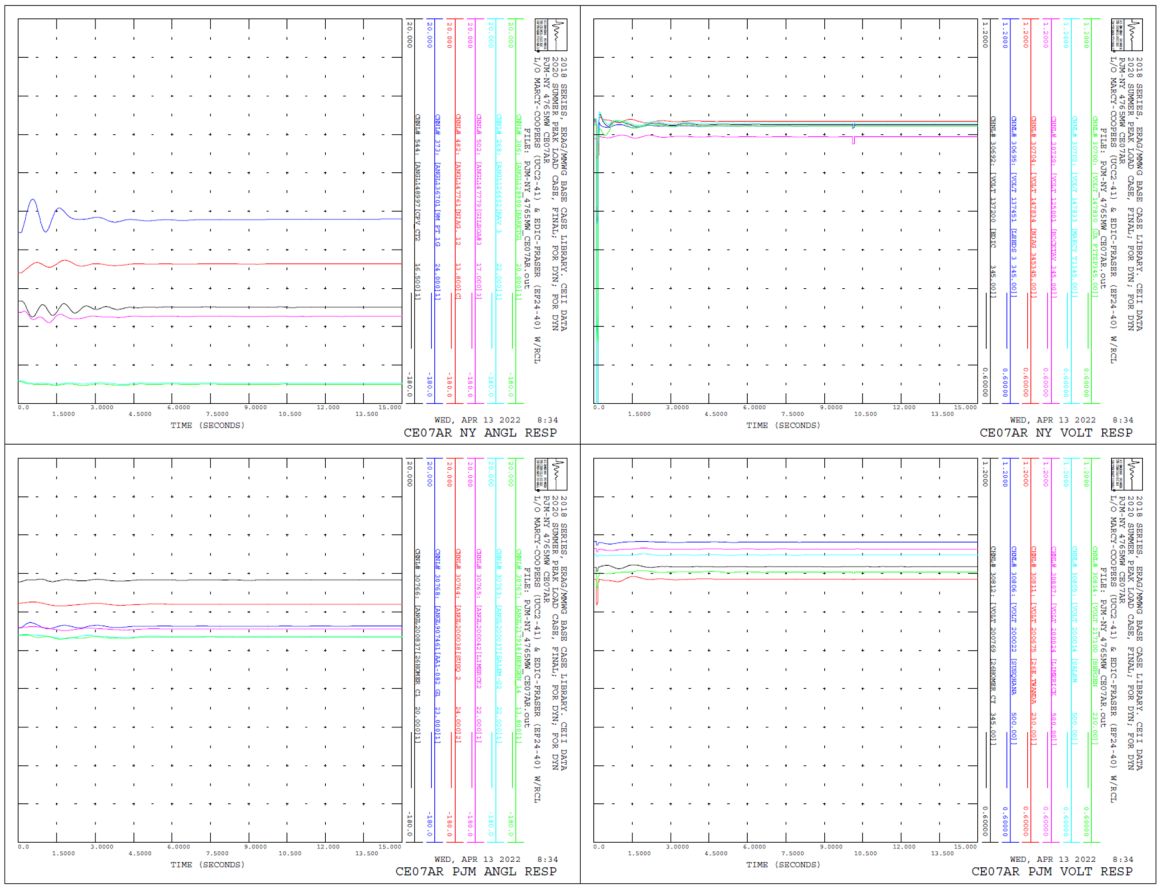


**Figure 132: PJM-NY 4765 MW Contingency CE07AR Angle/Voltage Response Plots**

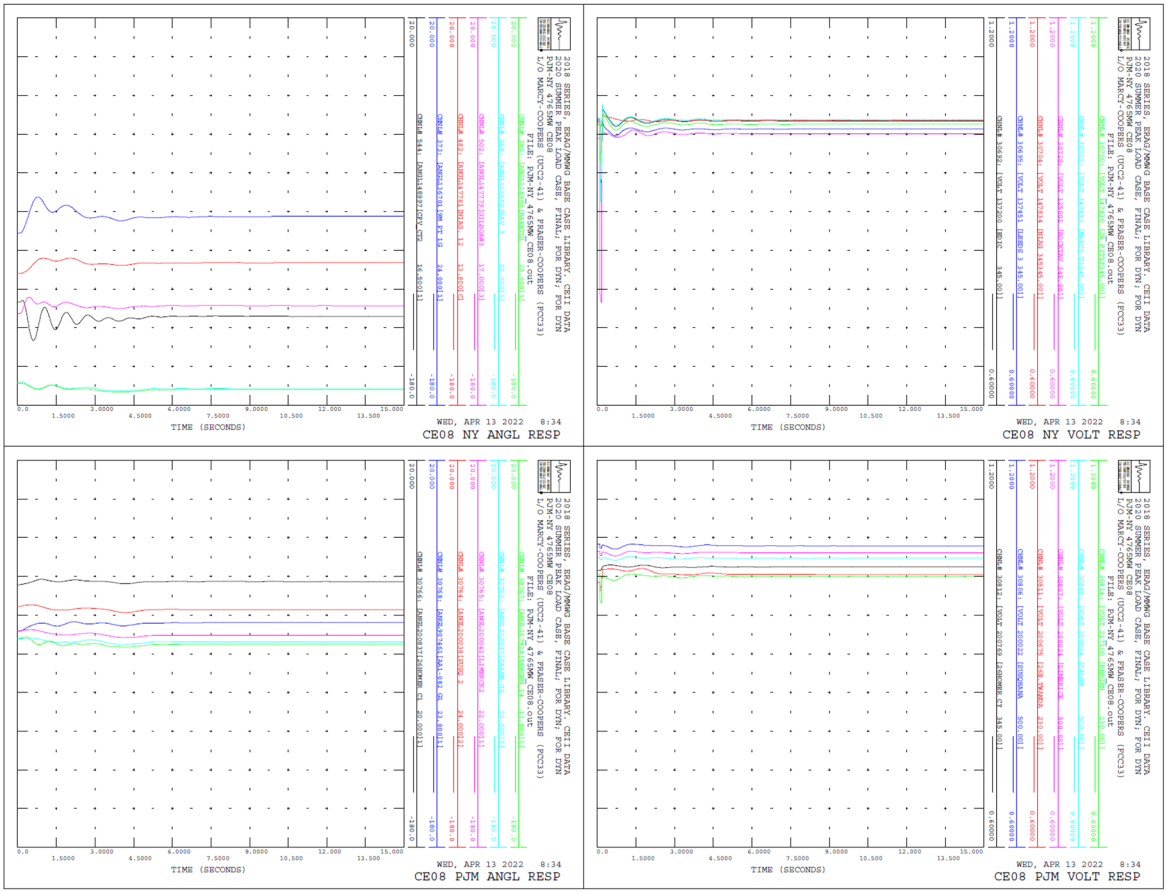


**Figure 133: PJM-NY 4765 MW Contingency CE08 Angle/Voltage Response Plots**

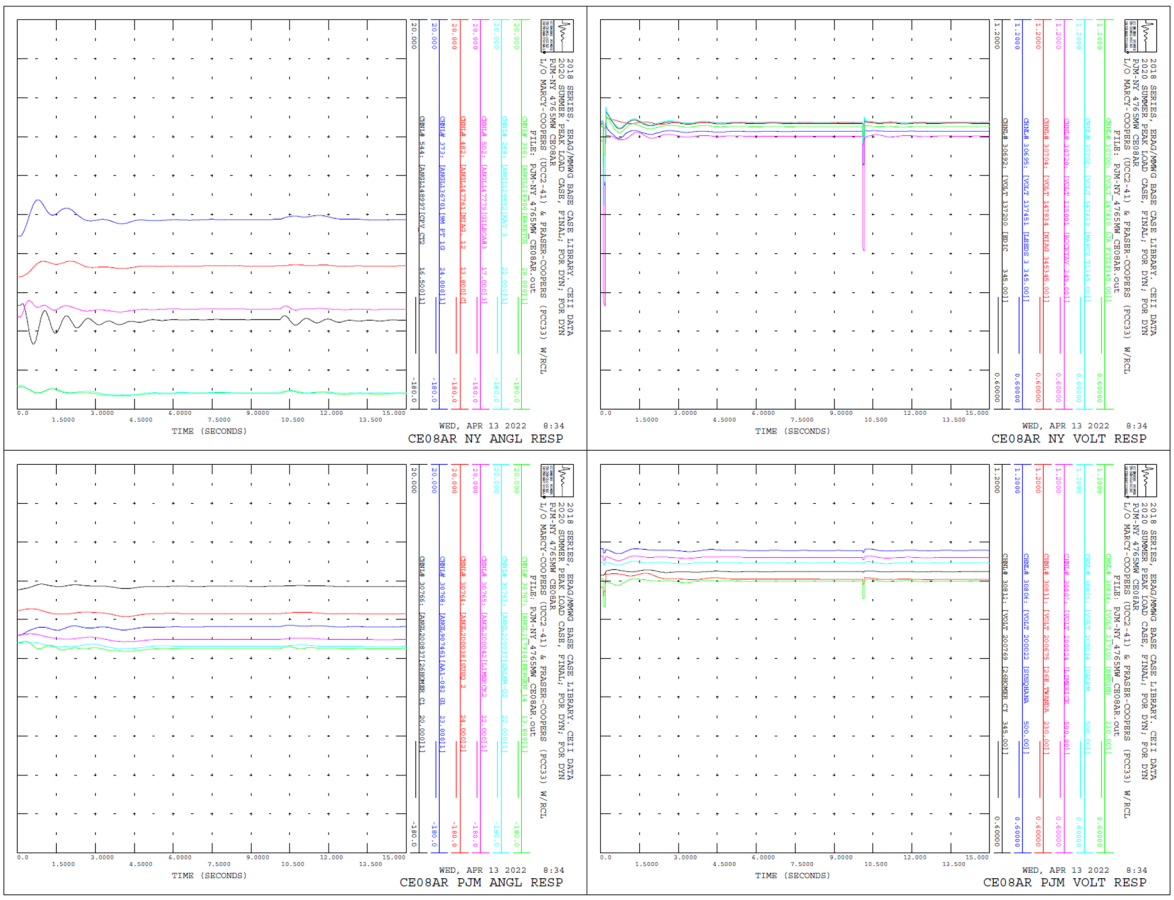


**Figure 134: PJM-NY 4765 MW Contingency CE08AR Angle/Voltage Response Plots**

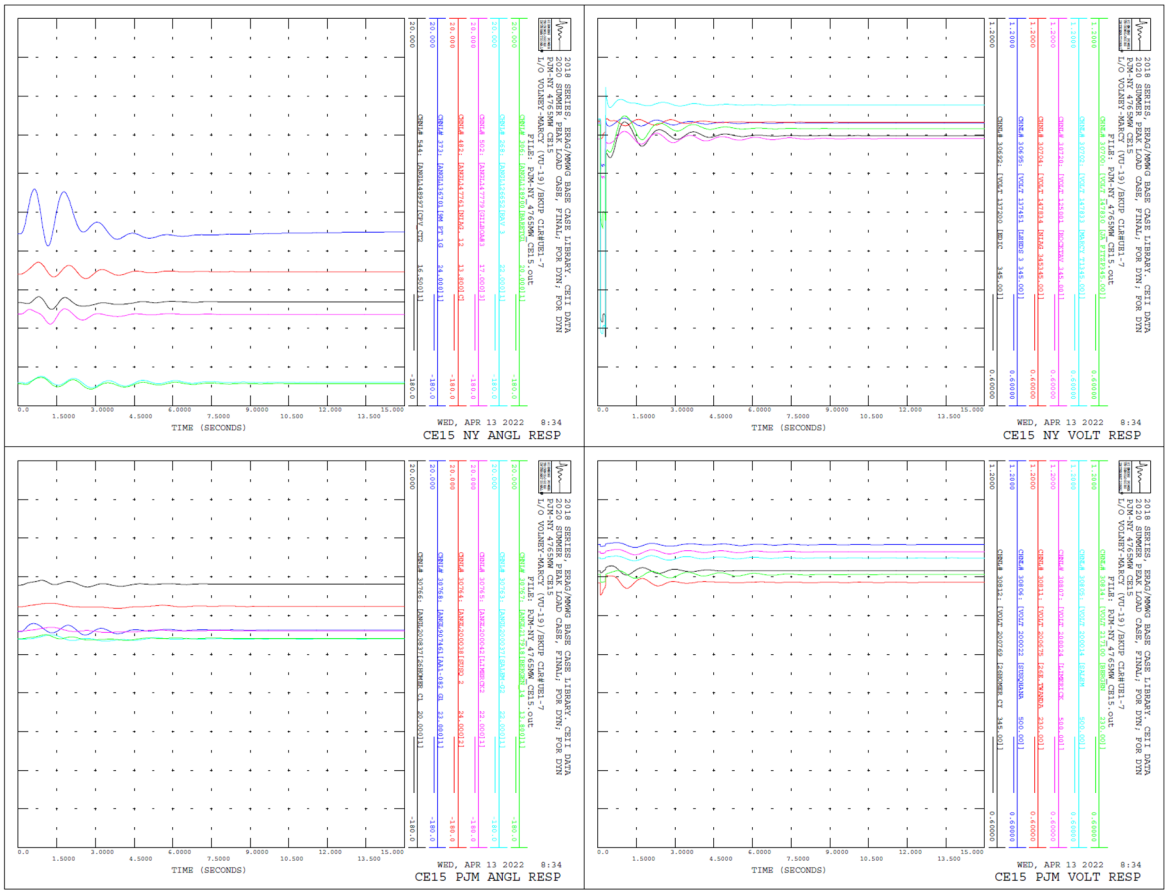


**Figure 135: PJM-NY 4765 MW Contingency CE15 Angle/Voltage Response Plots**

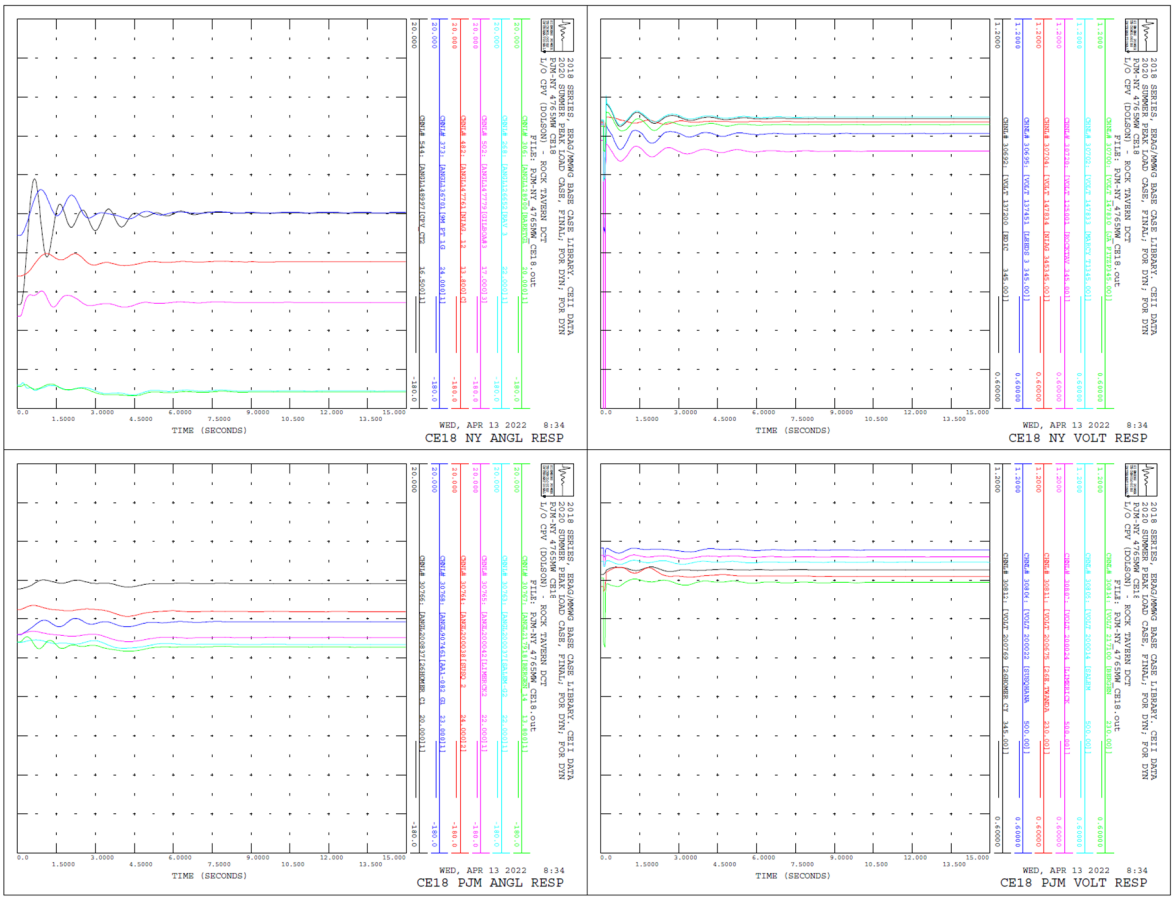


**Figure 136: PJM-NY 4765 MW Contingency CE18 Angle/Voltage Response Plots**

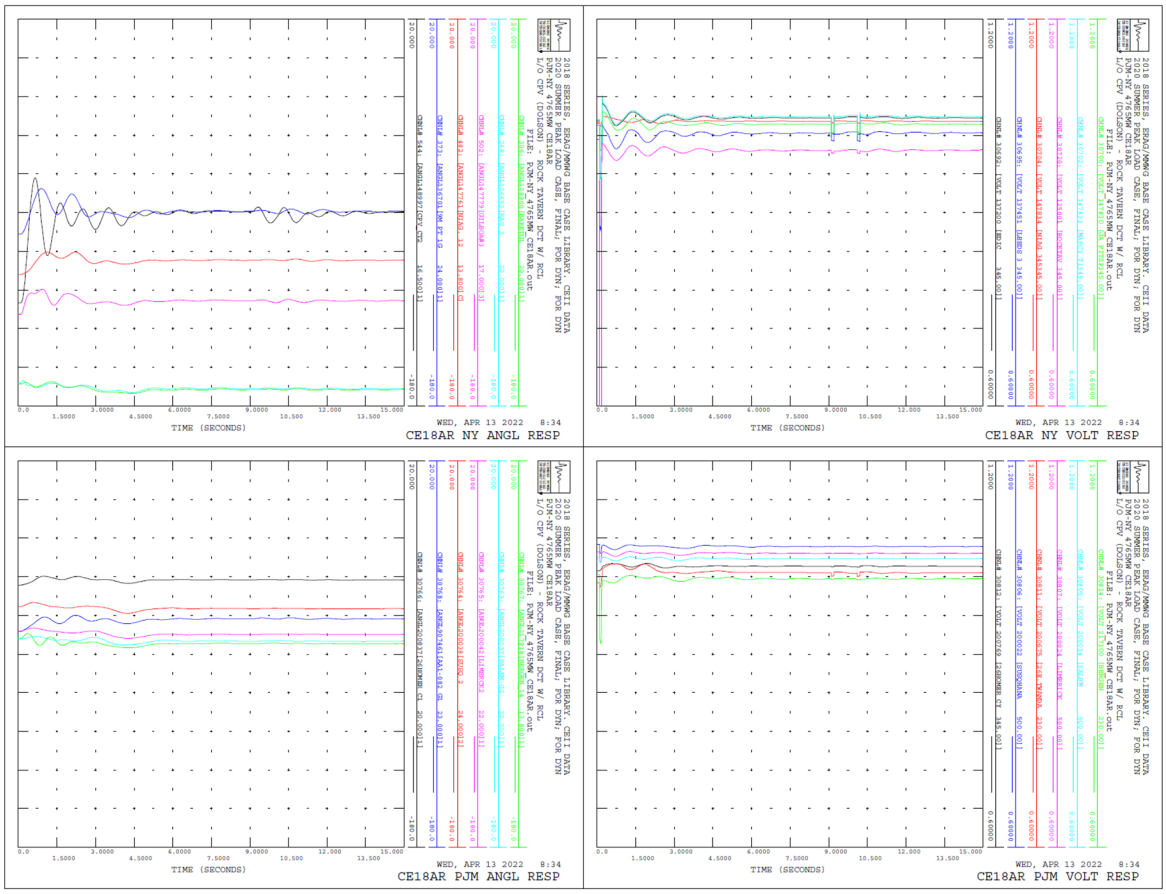


**Figure 137: PJM-NY 4765 MW Contingency CE18AR Angle/Voltage Response Plots**

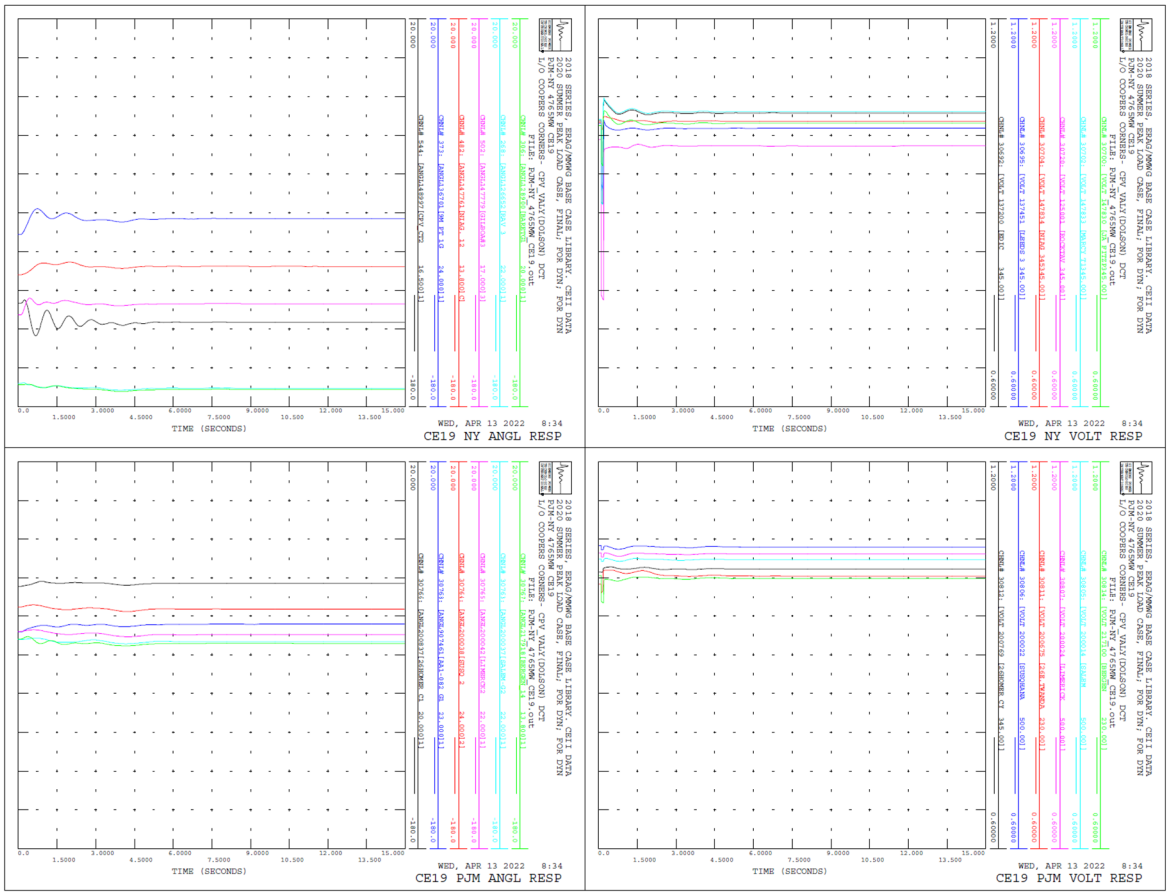


**Figure 138: PJM-NY 4765 MW Contingency CE19 Angle/Voltage Response Plots**

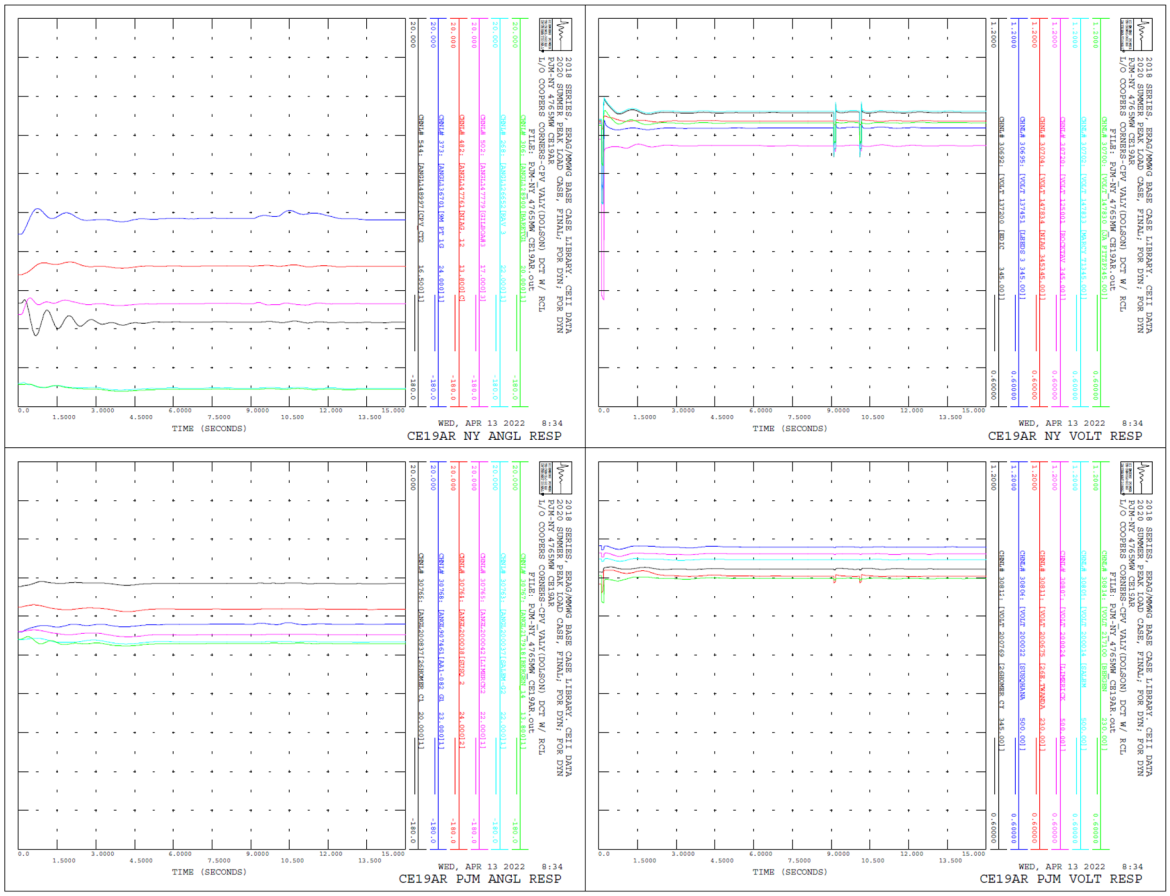


**Figure 139: PJM-NY 4765 MW Contingency CE19AR Angle/Voltage Response Plots**

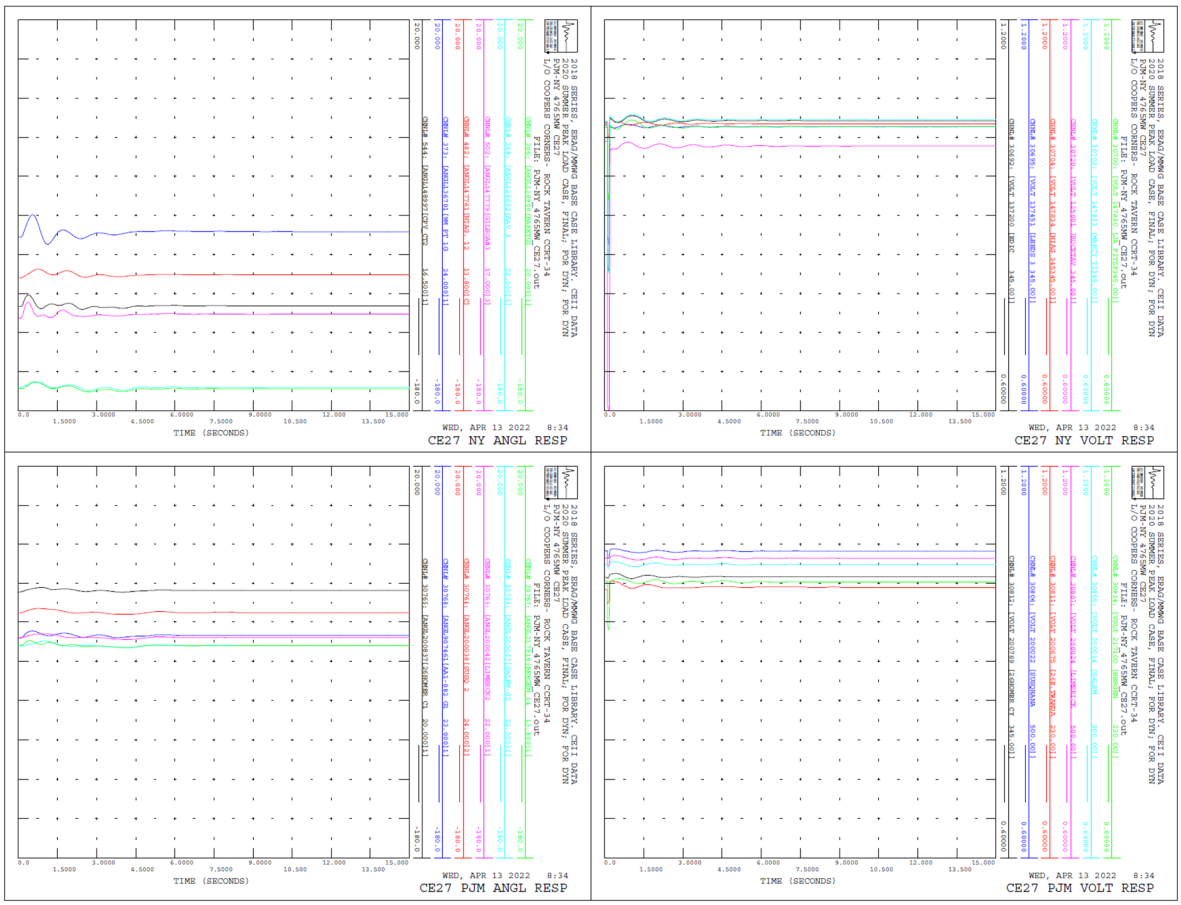


**Figure 140: PJM-NY 4765 MW Contingency CE27 Angle/Voltage Response Plots**

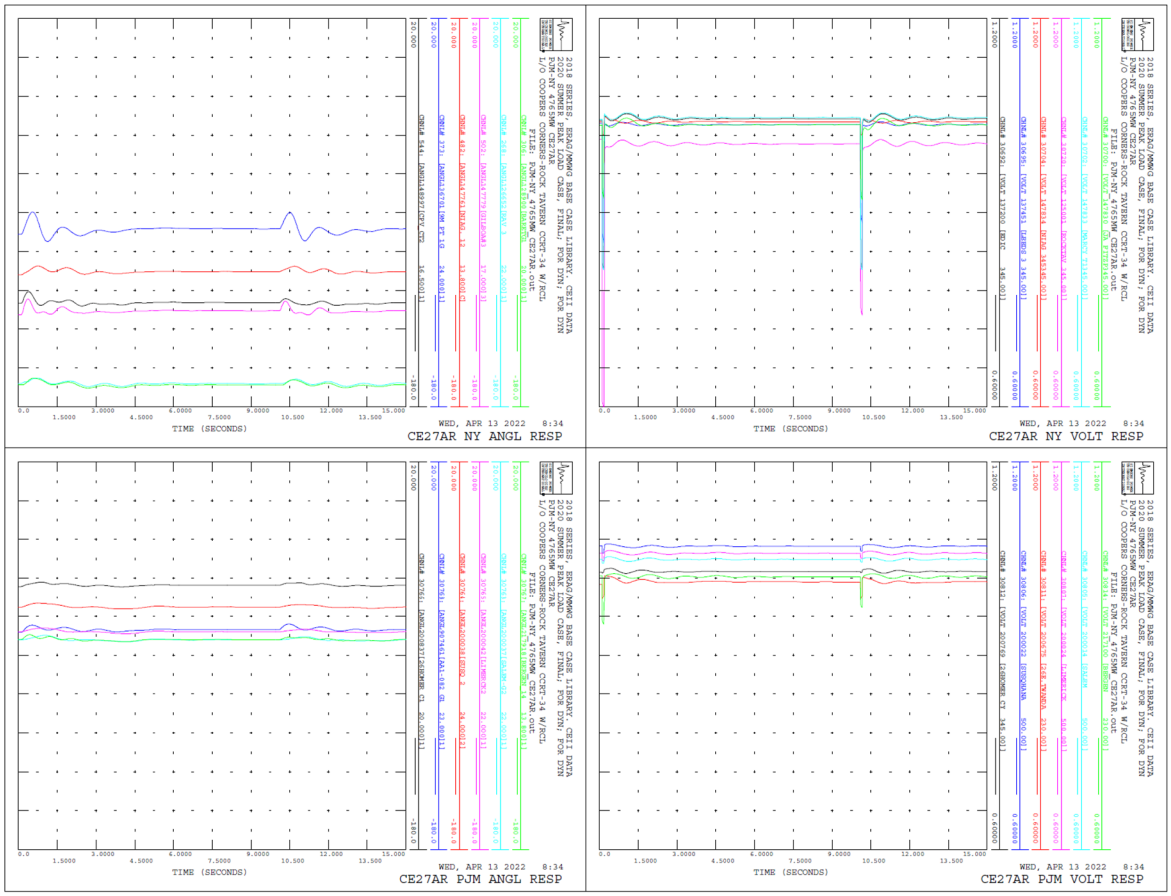


**Figure 141: PJM-NY 4765 MW Contingency CE27AR Angle/Voltage Response Plots**

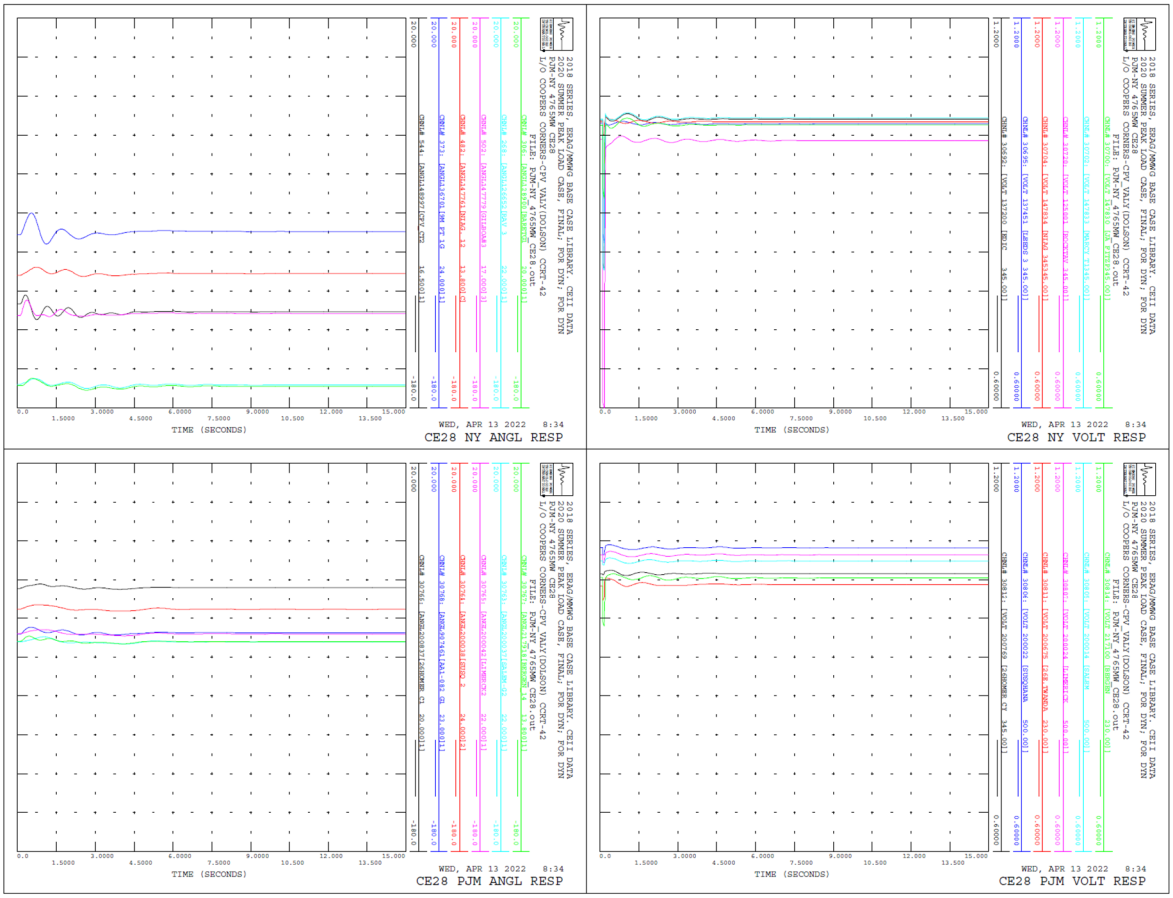


**Figure 142: PJM-NY 4765 MW Contingency CE28 Angle/Voltage Response Plots**

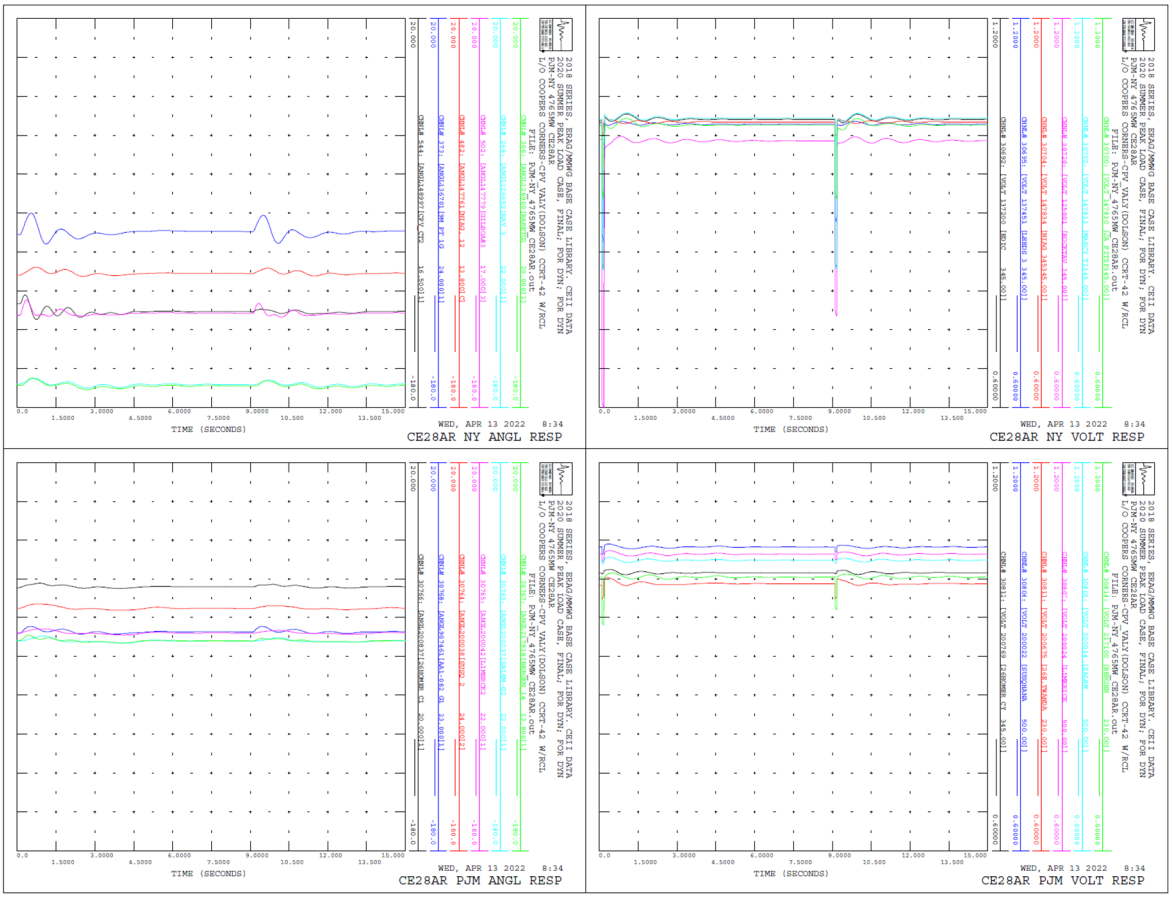


**Figure 143: PJM-NY 4765 MW Contingency CE28AR Angle/Voltage Response Plots**

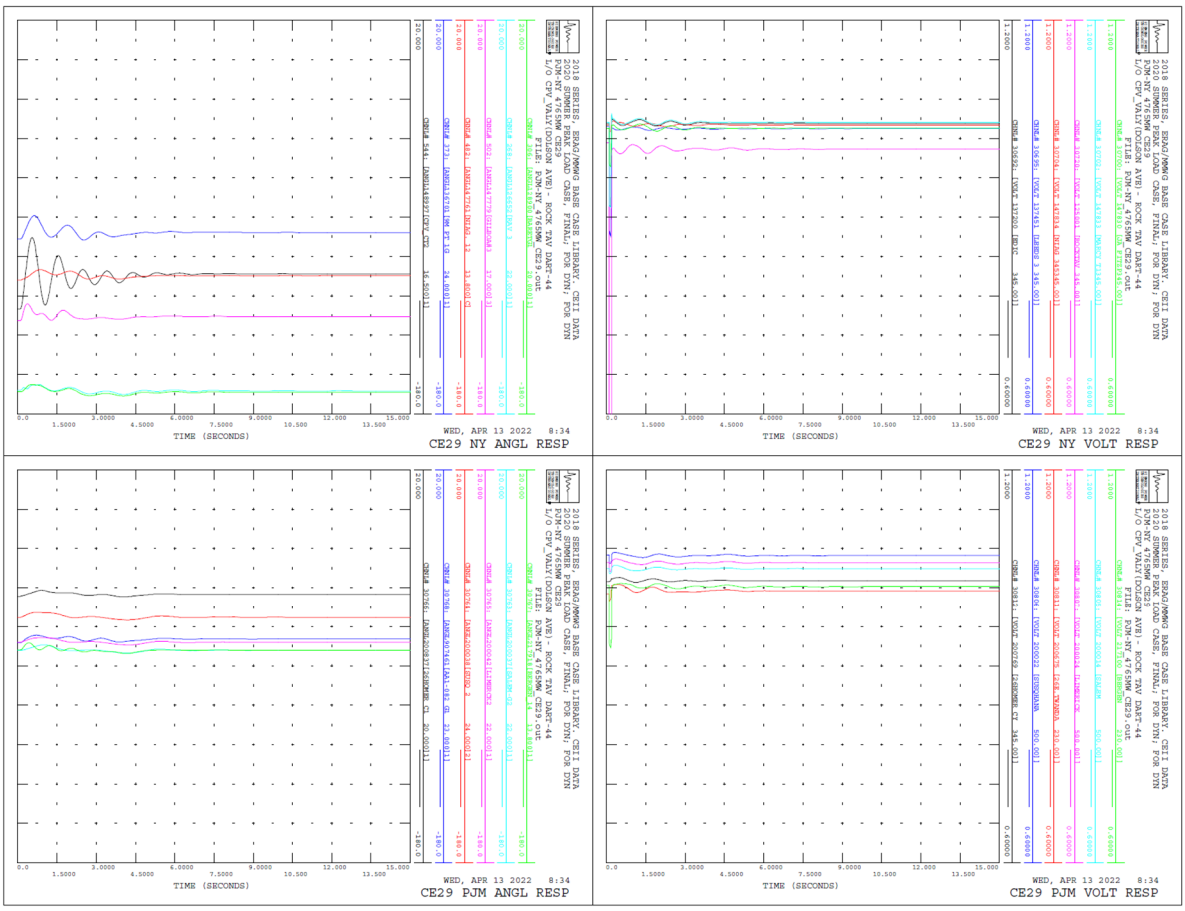


**Figure 144: PJM-NY 4765 MW Contingency CE29 Angle/Voltage Response Plots**

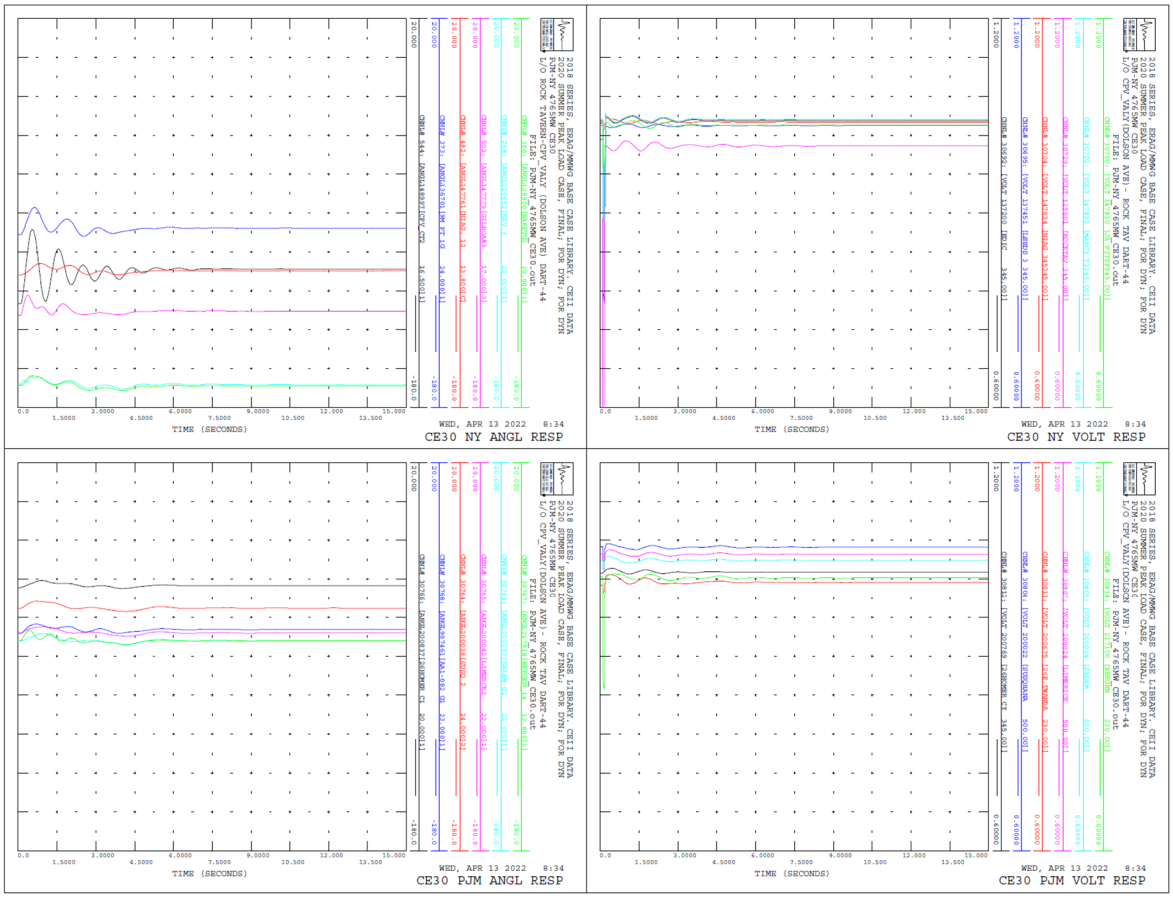


**Figure 145: PJM-NY 4765 MW Contingency CE30 Angle/Voltage Response Plots**

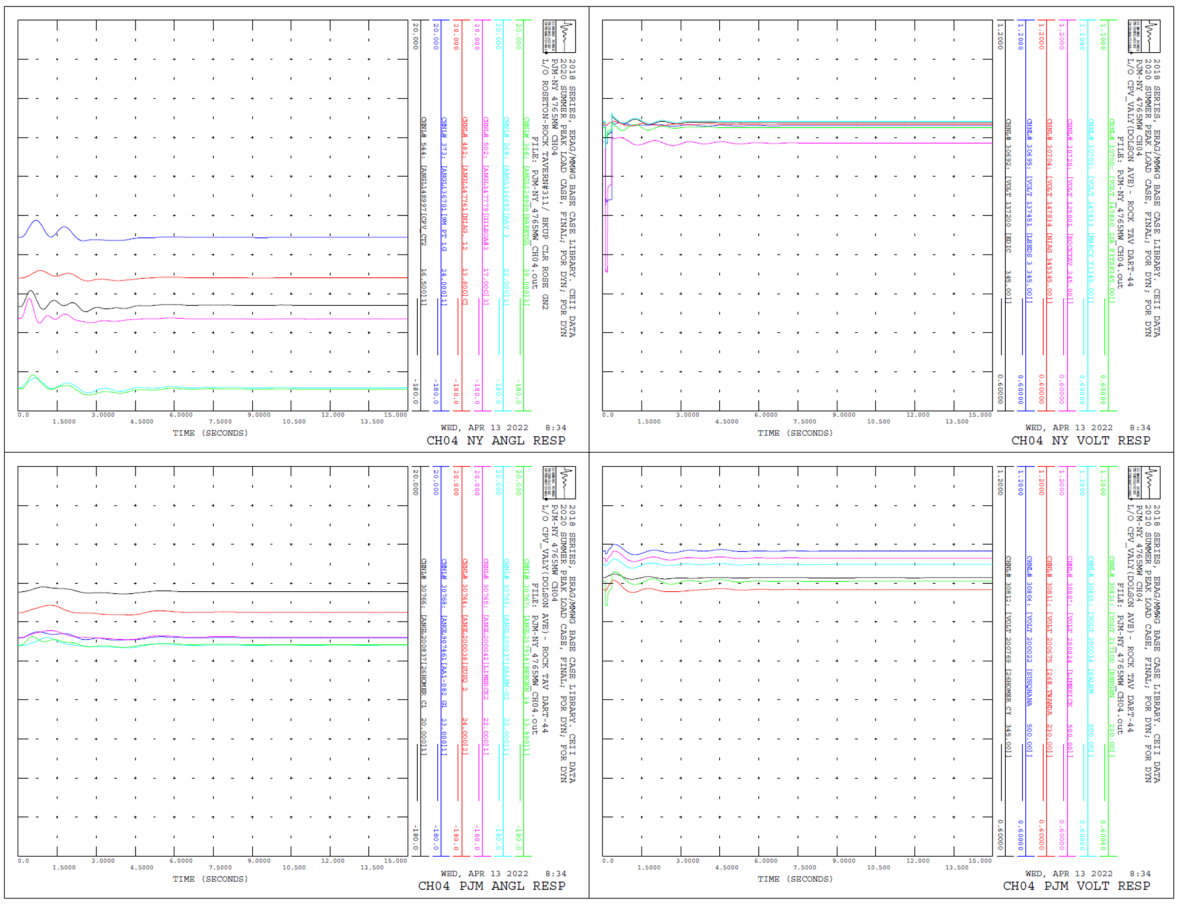


**Figure 146: PJM-NY 4765 MW Contingency CH04 Angle/Voltage Response Plots**

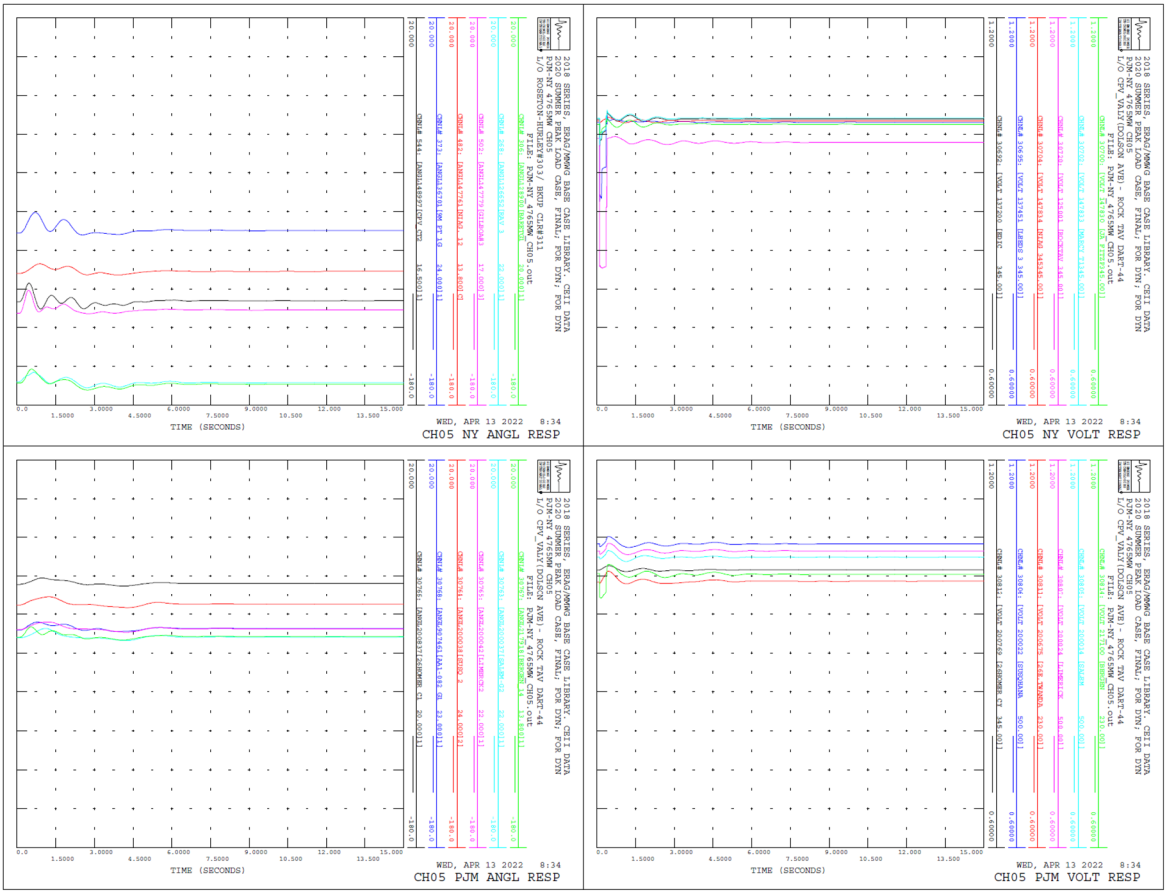


**Figure 147: PJM-NY 4765 MW Contingency CH05 Angle/Voltage Response Plots**

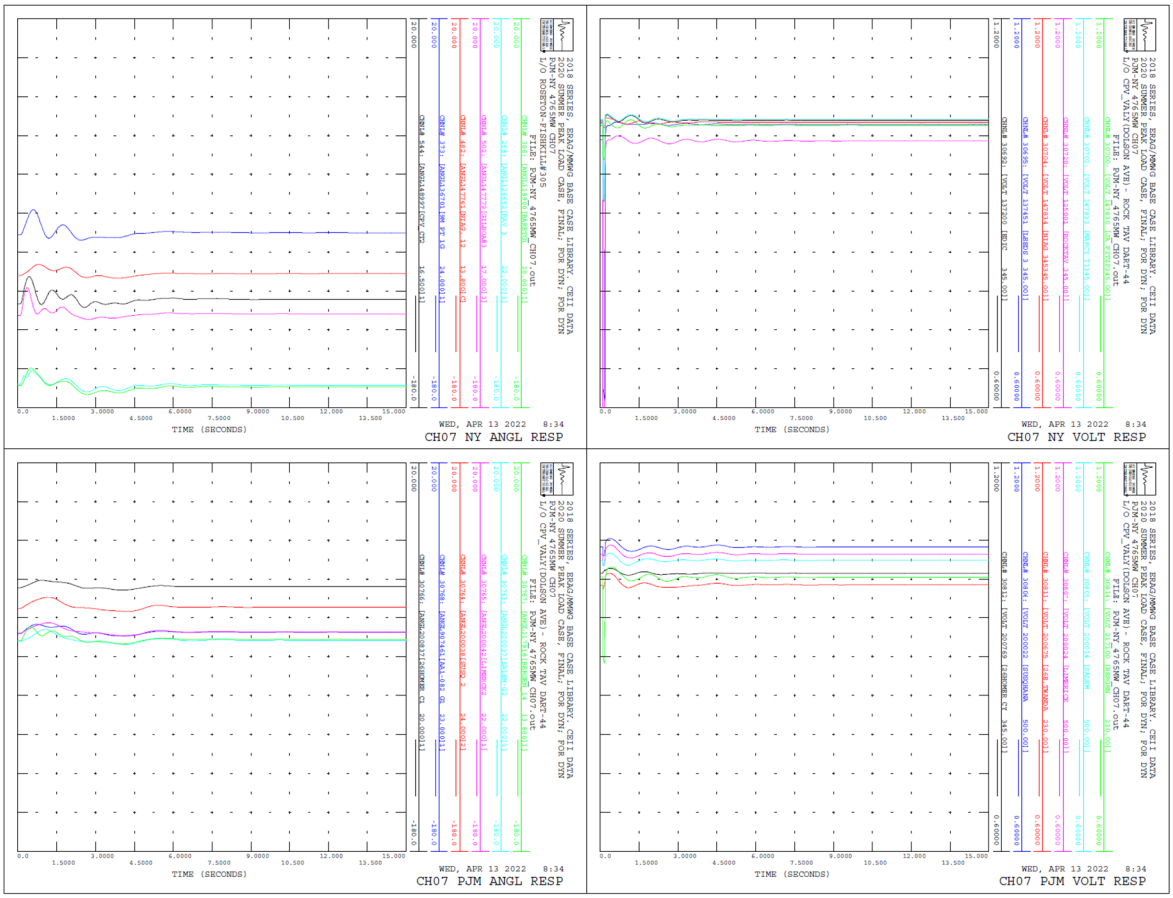


**Figure 148: PJM-NY 4765 MW Contingency CH07 Angle/Voltage Response Plots**

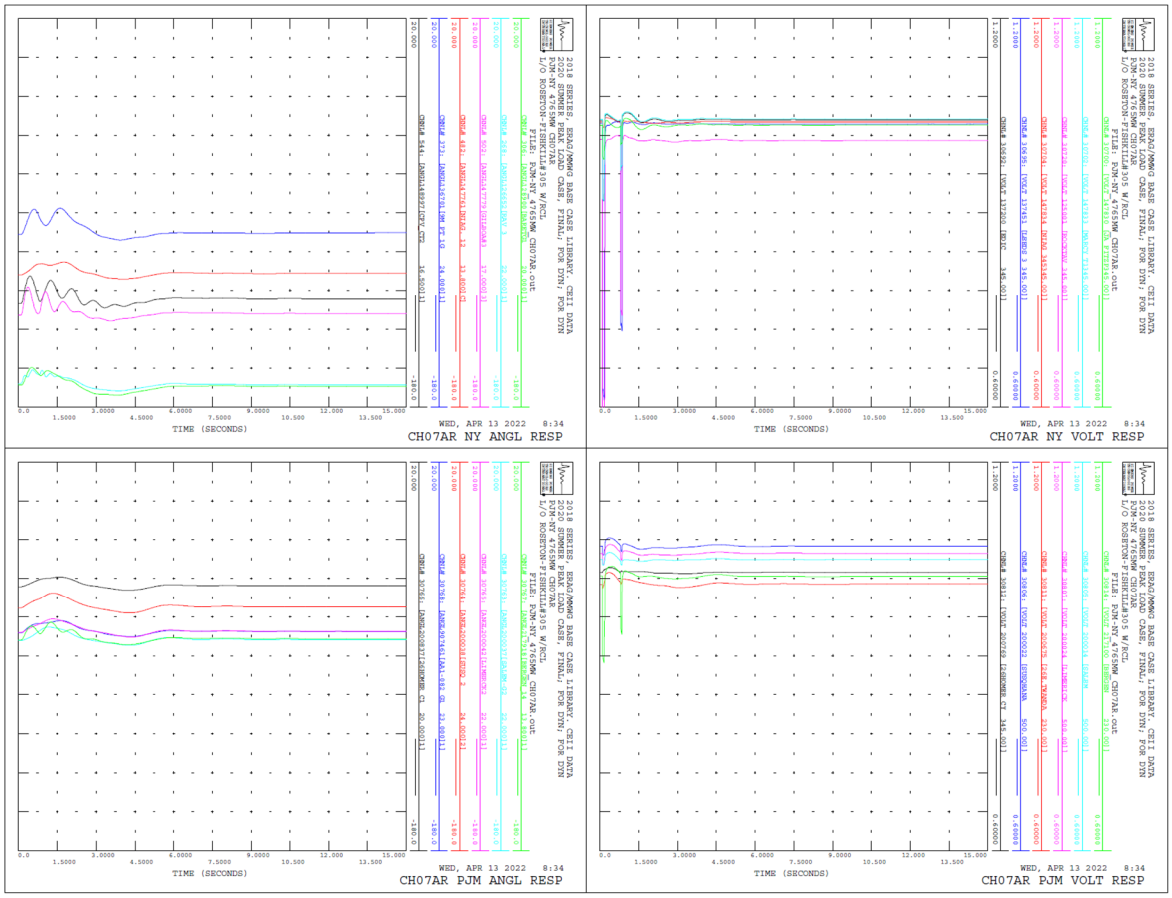


**Figure 149: PJM-NY 4765 MW Contingency CH07AR Angle/Voltage Response Plots**

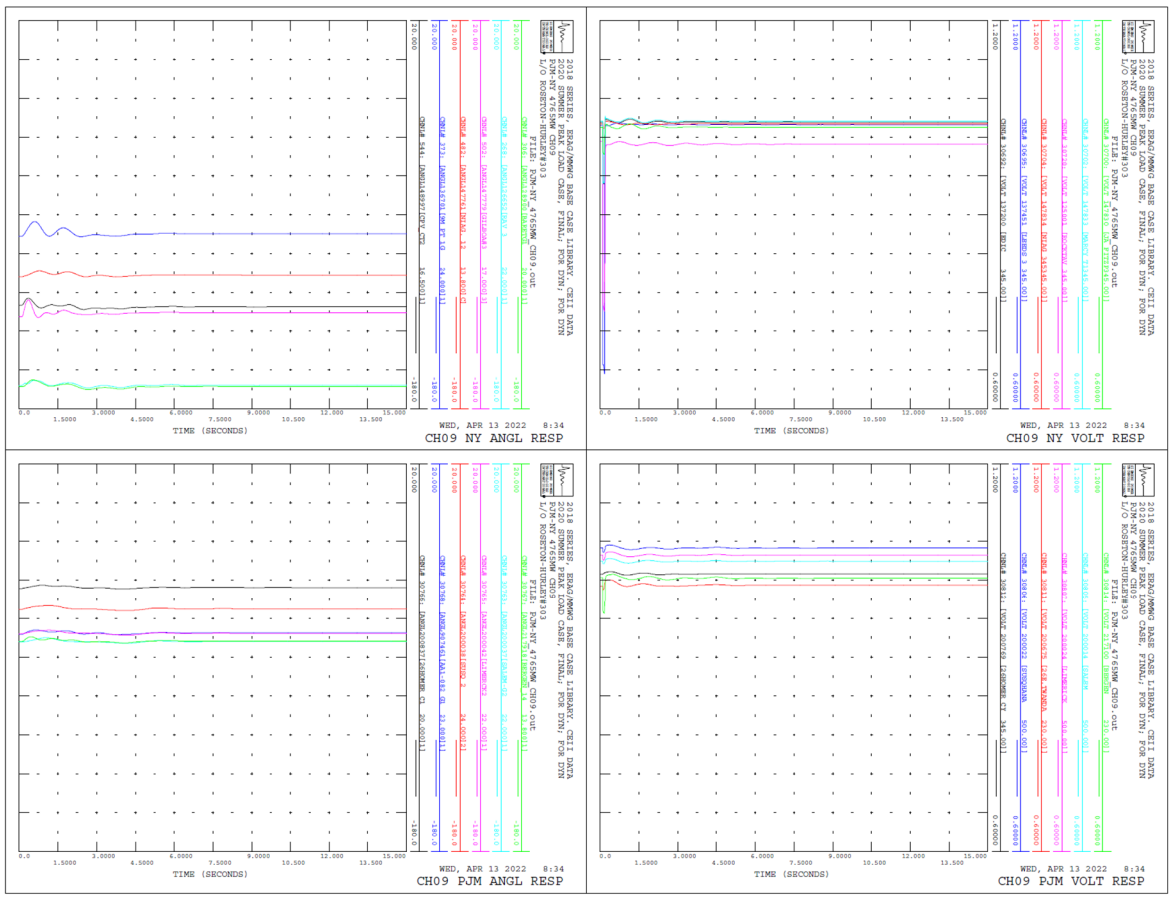


**Figure 150: PJM-NY 4765 MW Contingency CH09 Angle/Voltage Response Plots**

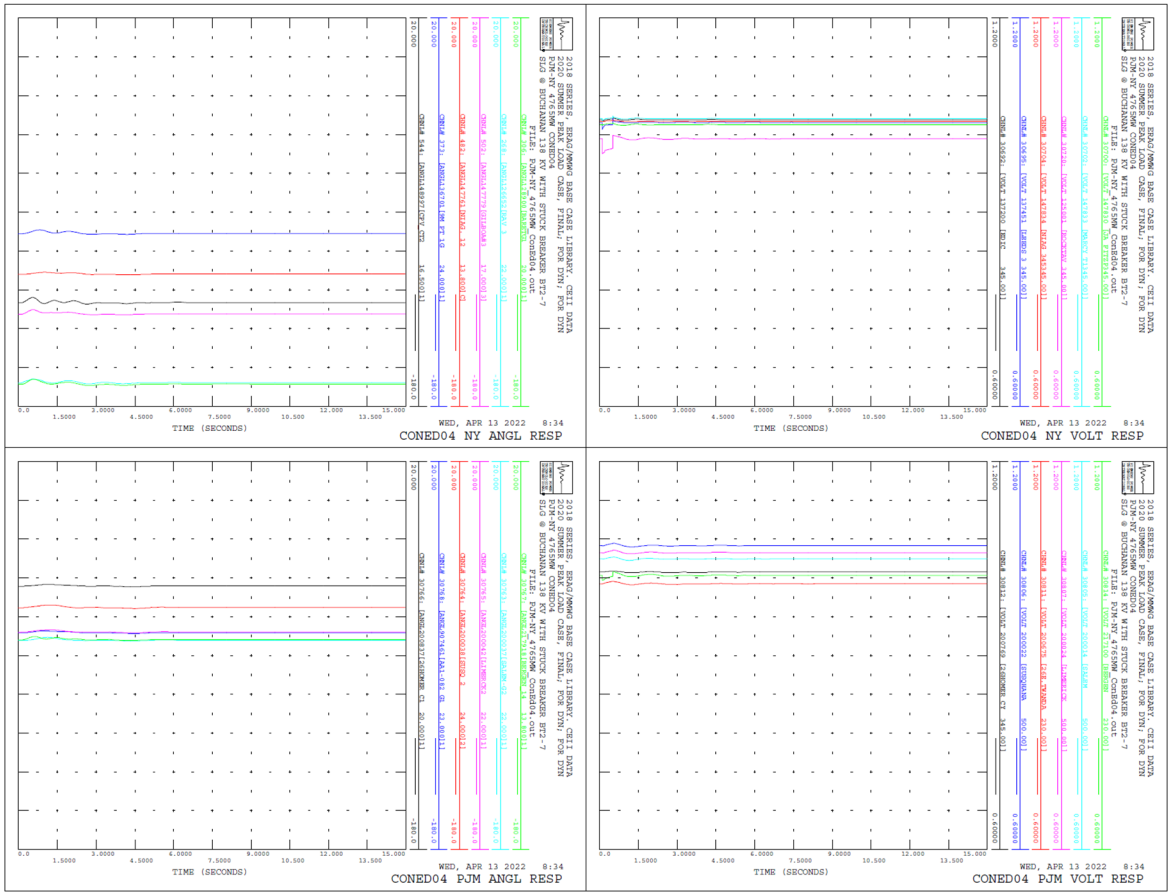


**Figure 151: PJM-NY 4765 MW Contingency CONED04 Angle/Voltage Response Plots**

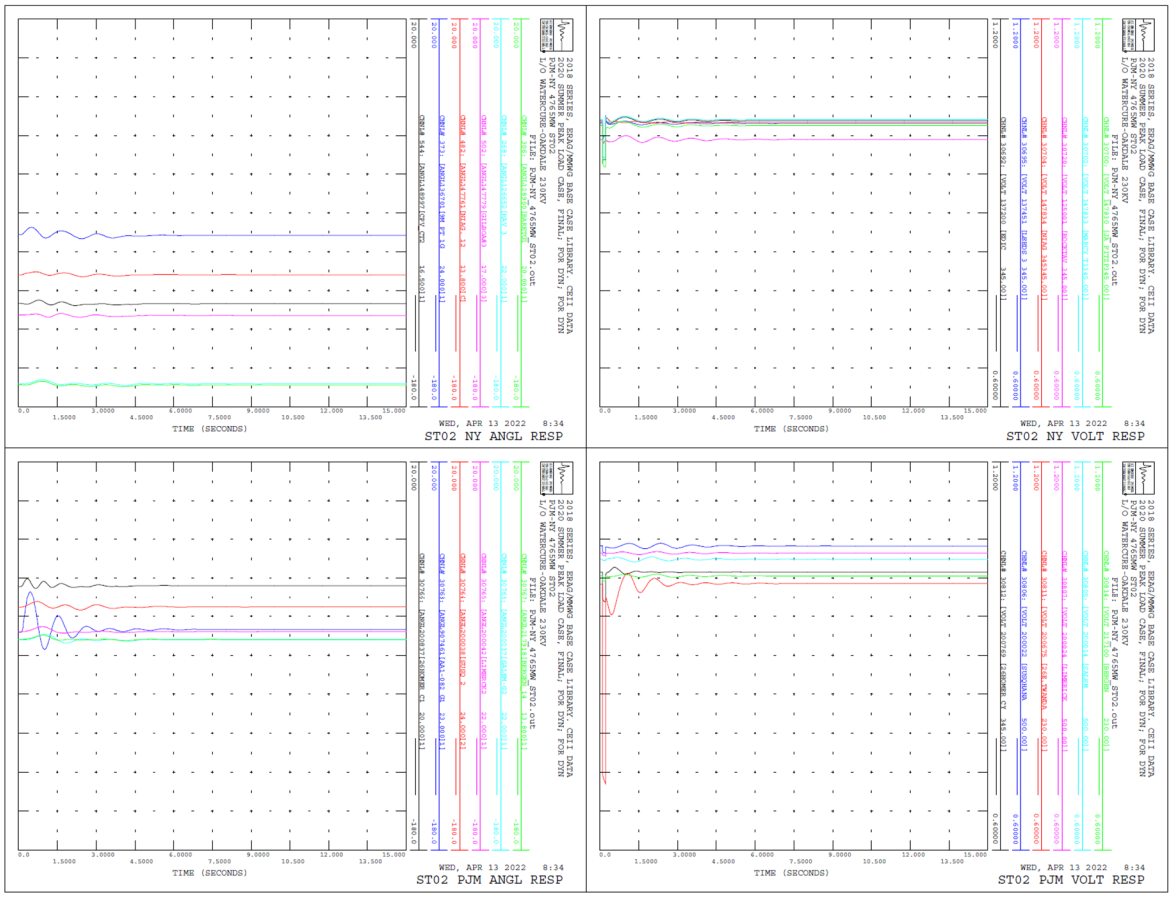


**Figure 152: PJM-NY 4765 MW Contingency ST02 Angle/Voltage Response Plots**

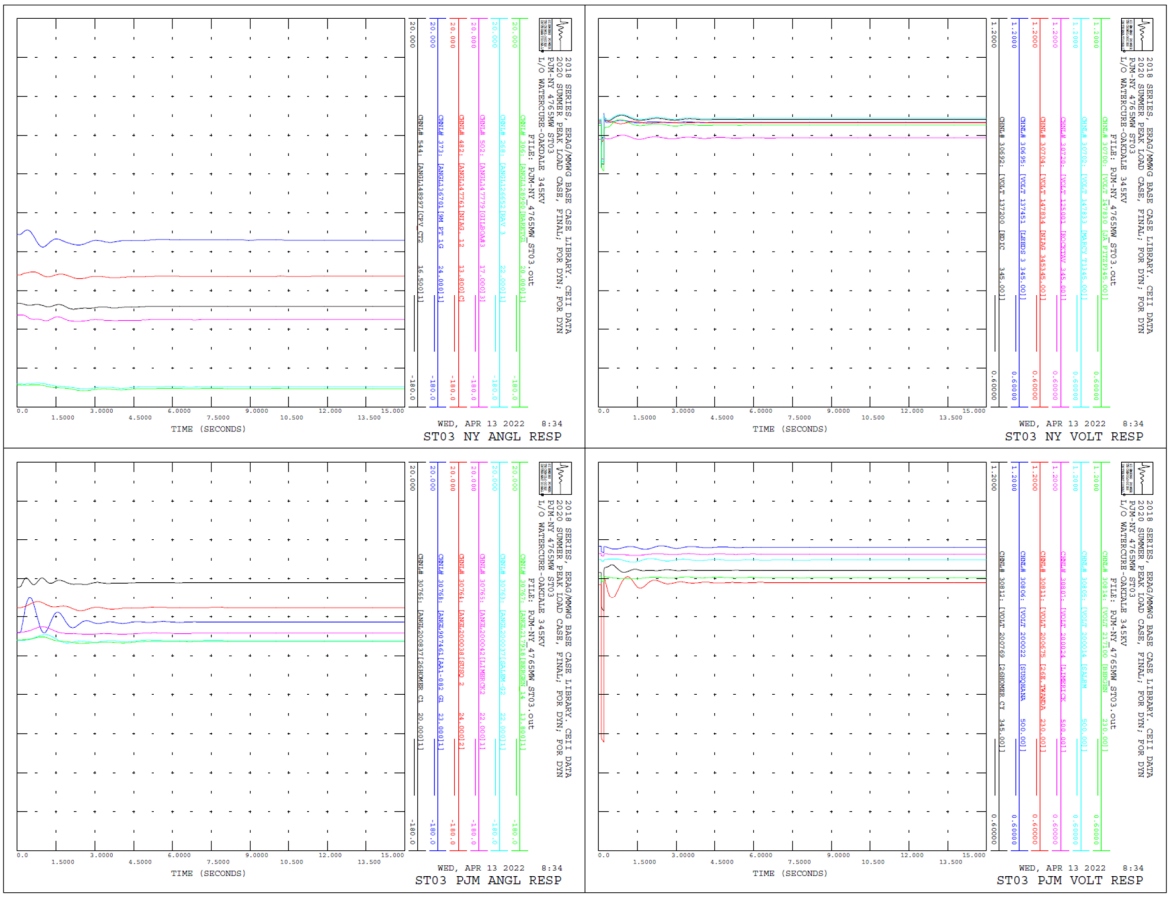


**Figure 153: PJM-NY 4765 MW Contingency ST03 Angle/Voltage Response Plots**

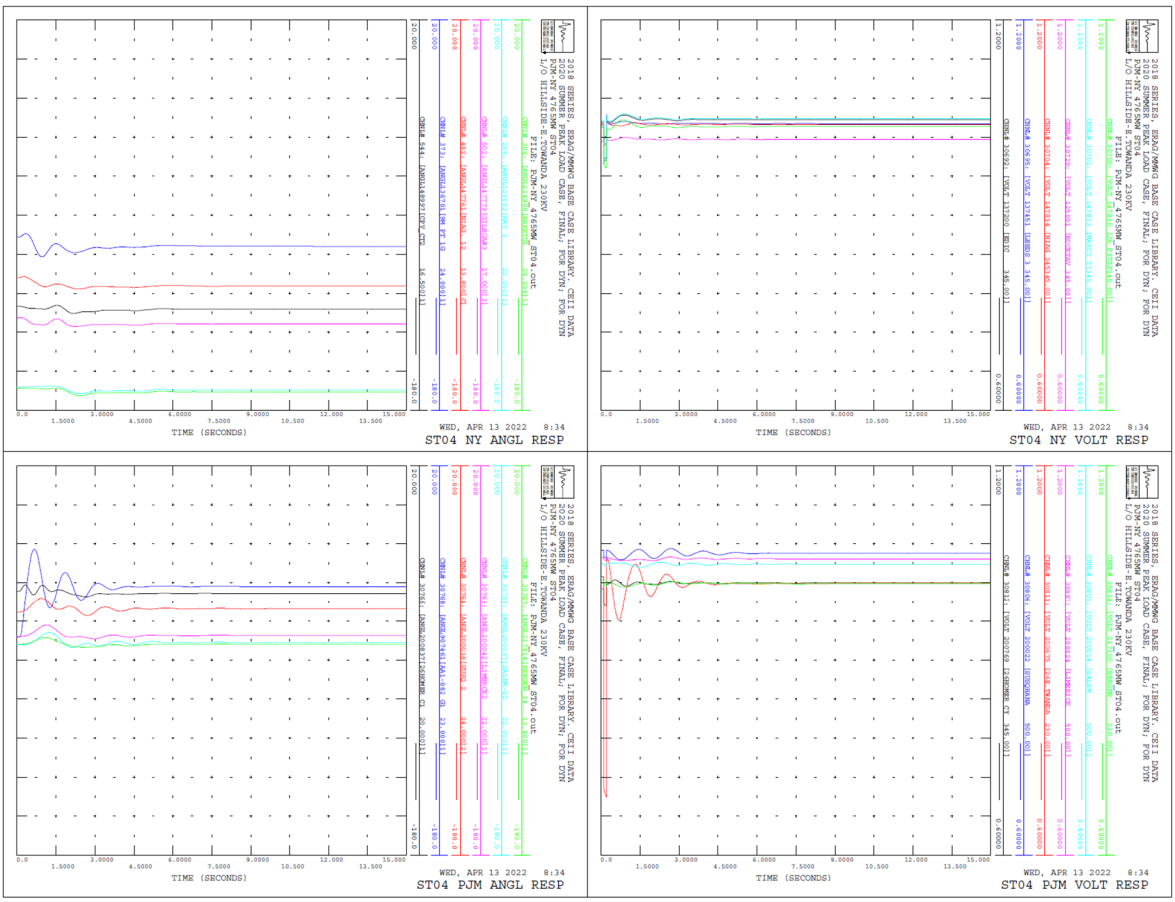


**Figure 154: PJM-NY 4765 MW Contingency ST04 Angle/Voltage Response Plots**

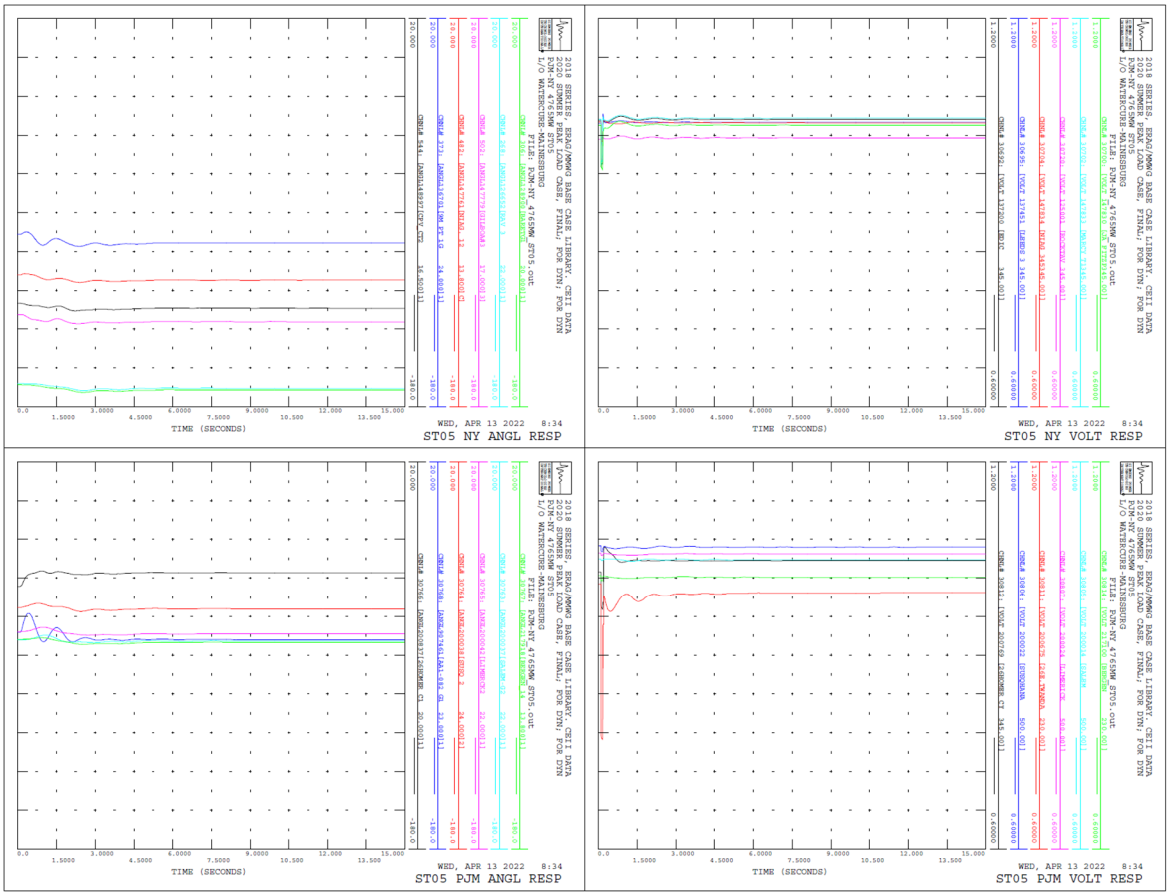


**Figure 155: PJM-NY 4765 MW Contingency ST05 Angle/Voltage Response Plots**

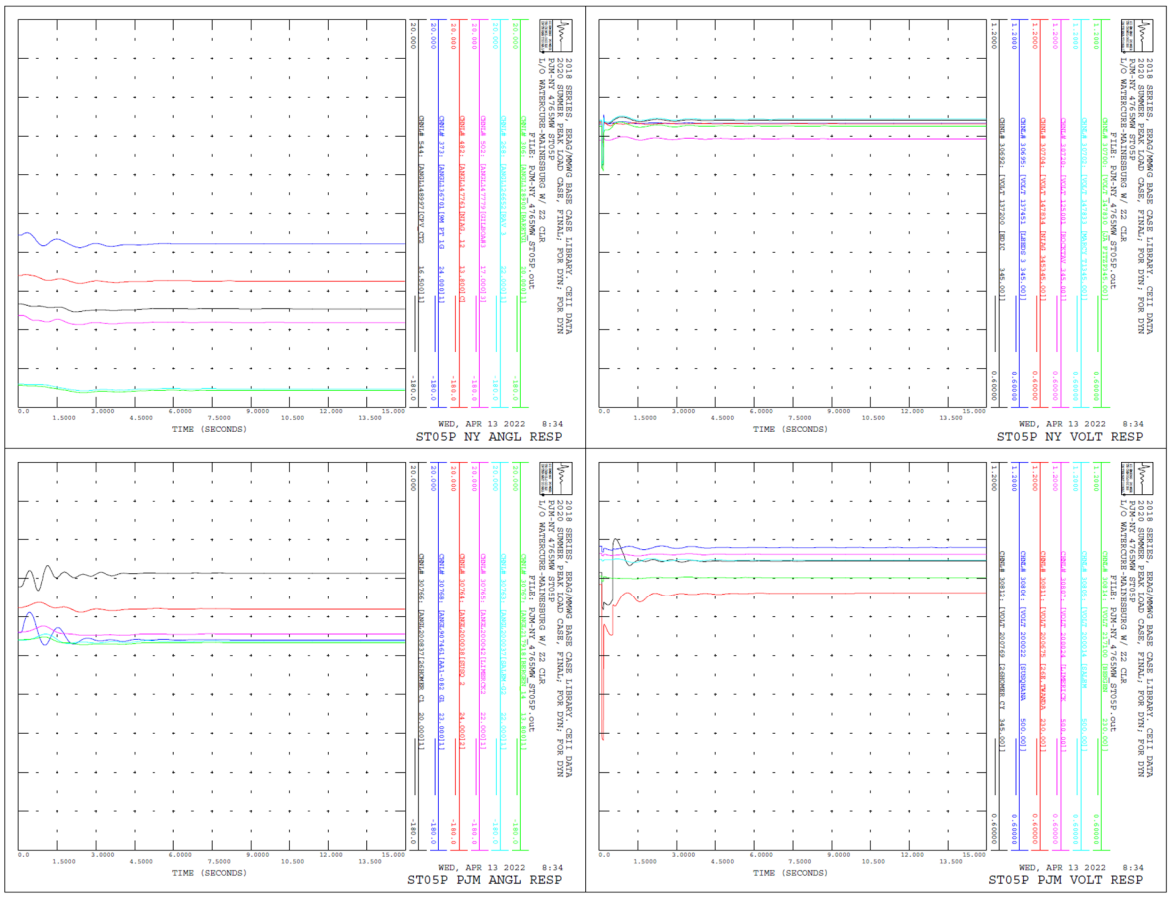


**Figure 156: PJM-NY 4765 MW Contingency ST05P Angle/Voltage Response Plots**

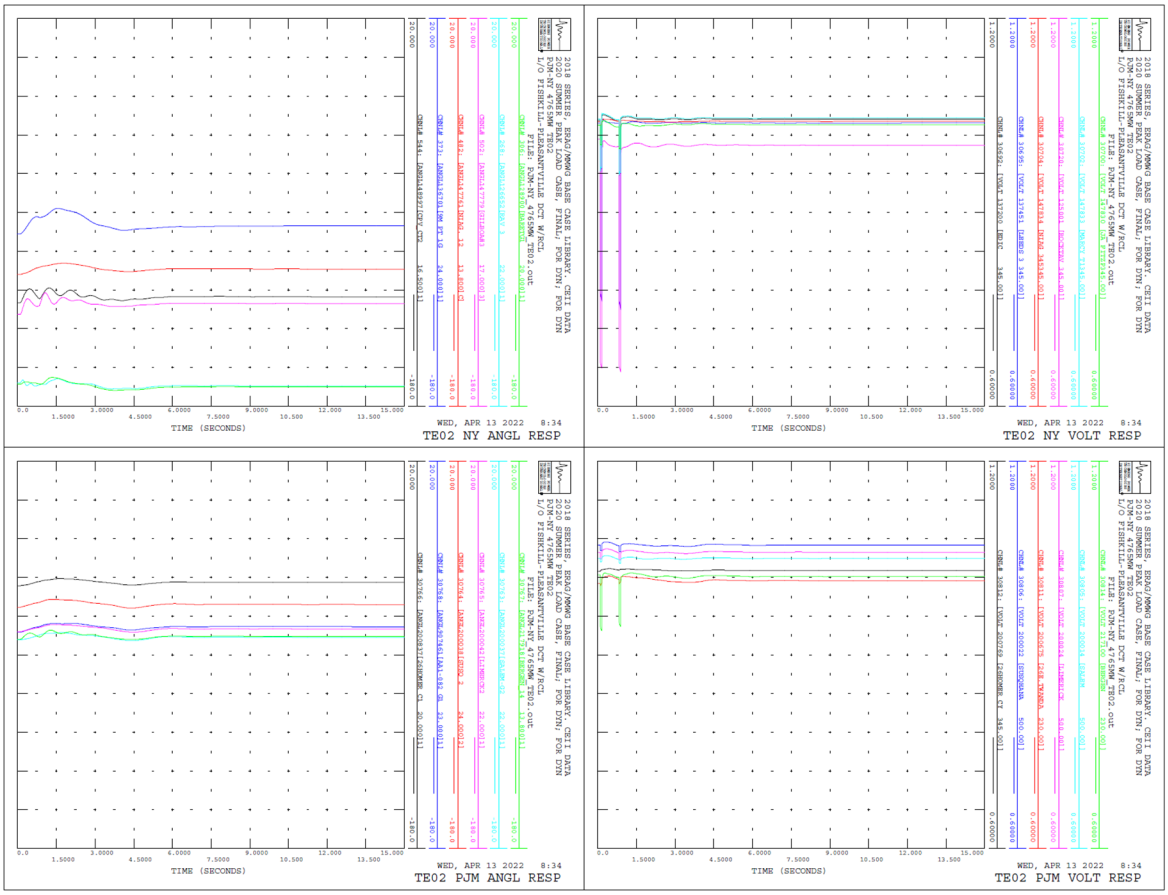


**Figure 157: PJM-NY 4765 MW Contingency TE02 Angle/Voltage Response Plots**

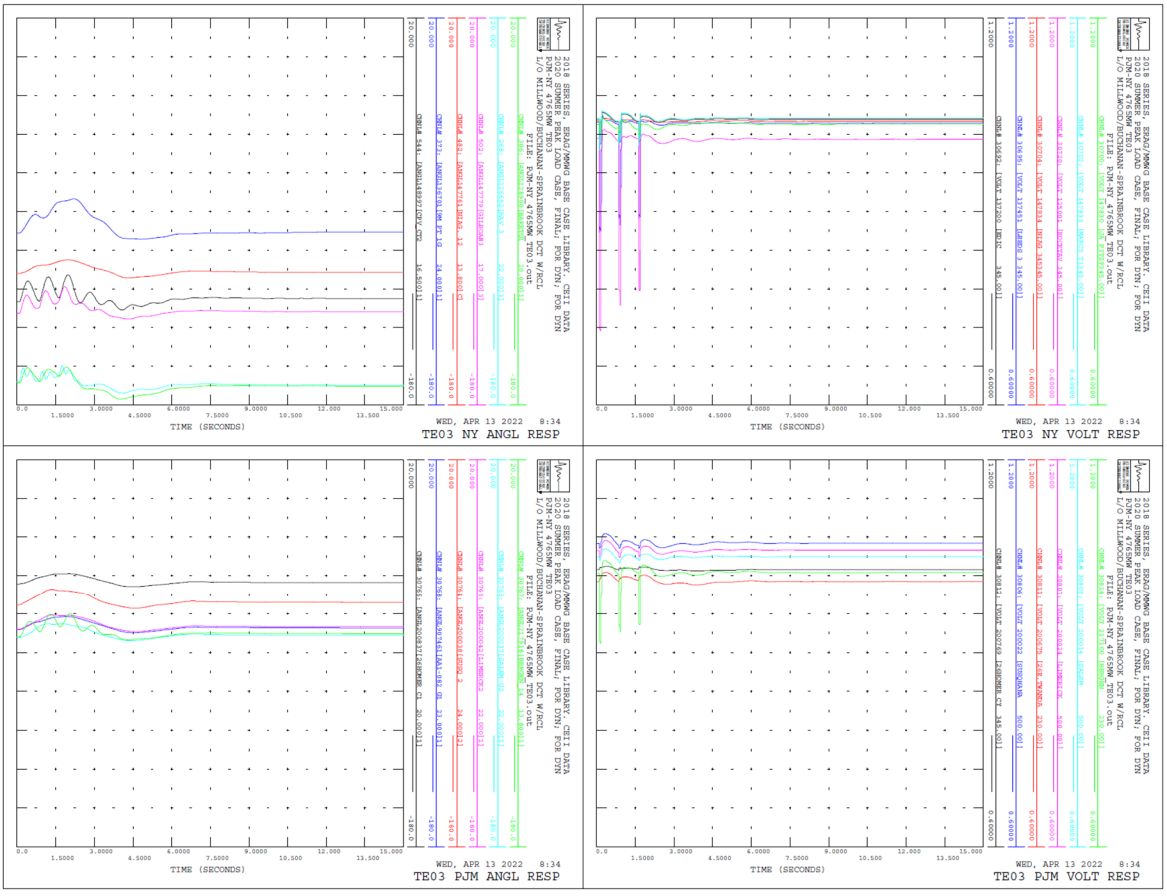


**Figure 158: PJM-NY 4765 MW Contingency TE03 Angle/Voltage Response Plots**

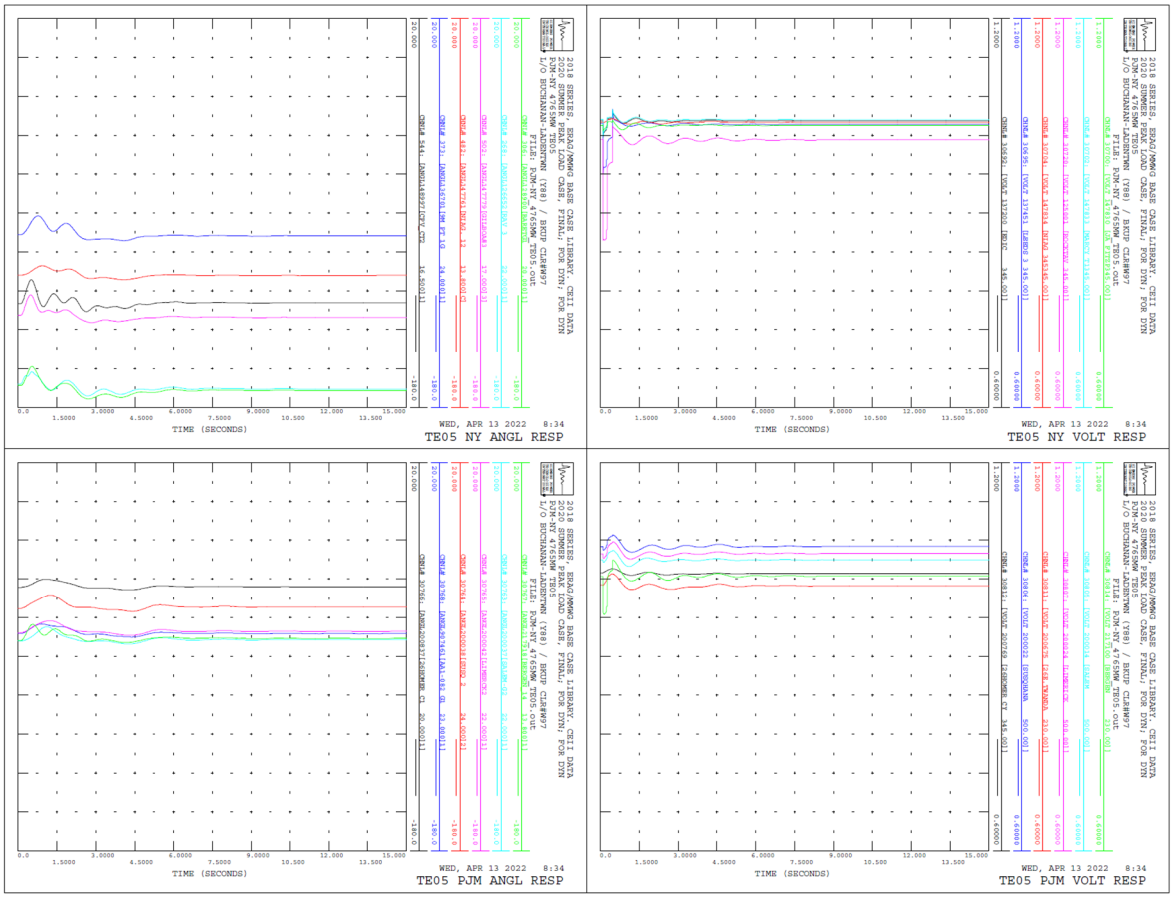


**Figure 159: PJM-NY 4765 MW Contingency TE05 Angle/Voltage Response Plots**

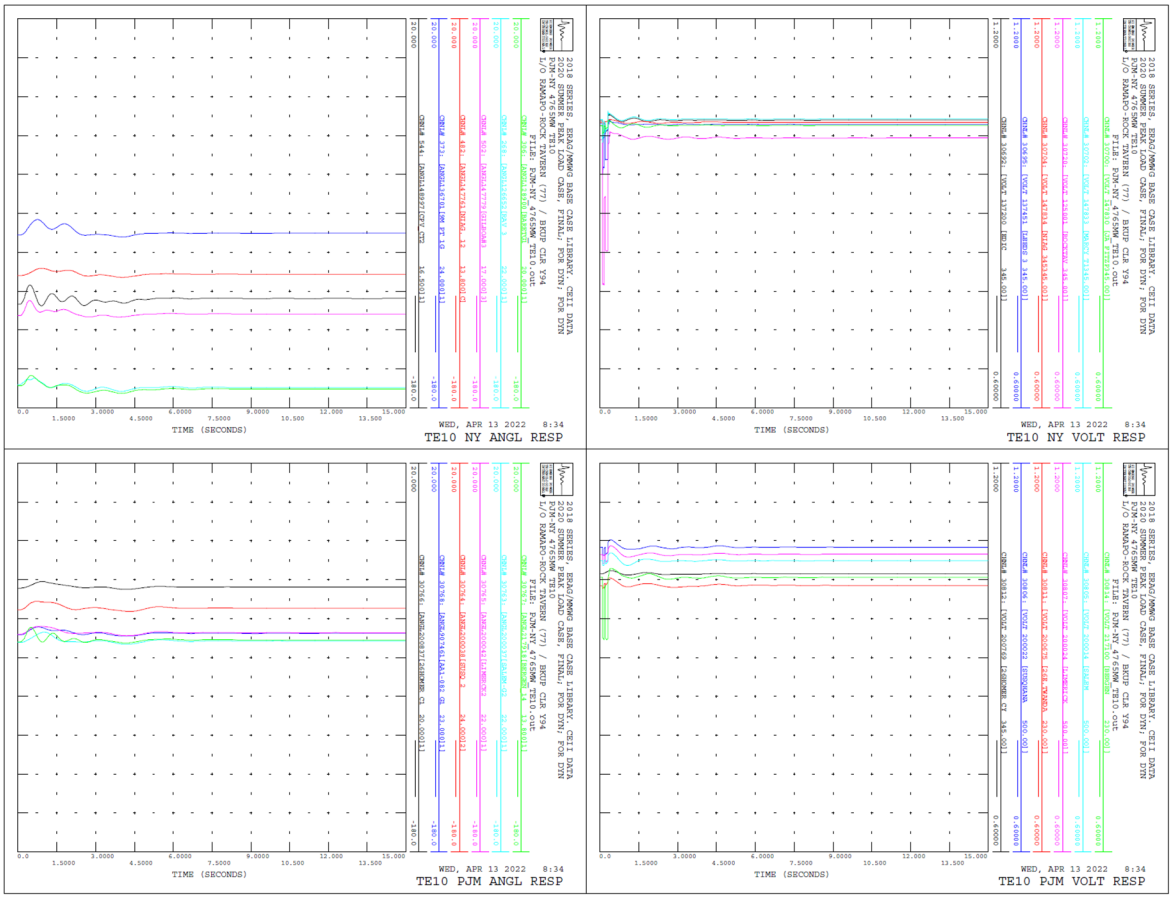


**Figure 160: PJM-NY 4765 MW Contingency TE10 Angle/Voltage Response Plots**

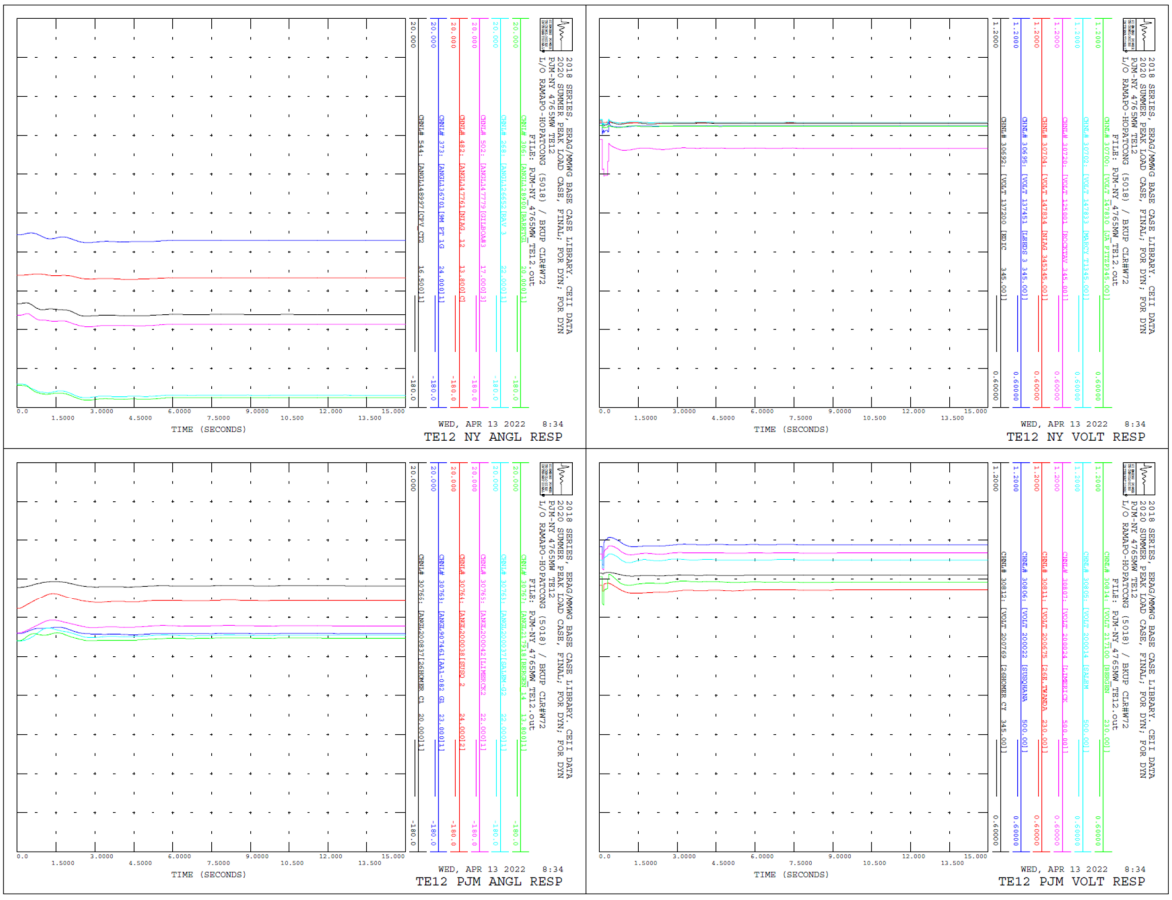


**Figure 161: PJM-NY 4765 MW Contingency TE12 Angle/Voltage Response Plots**

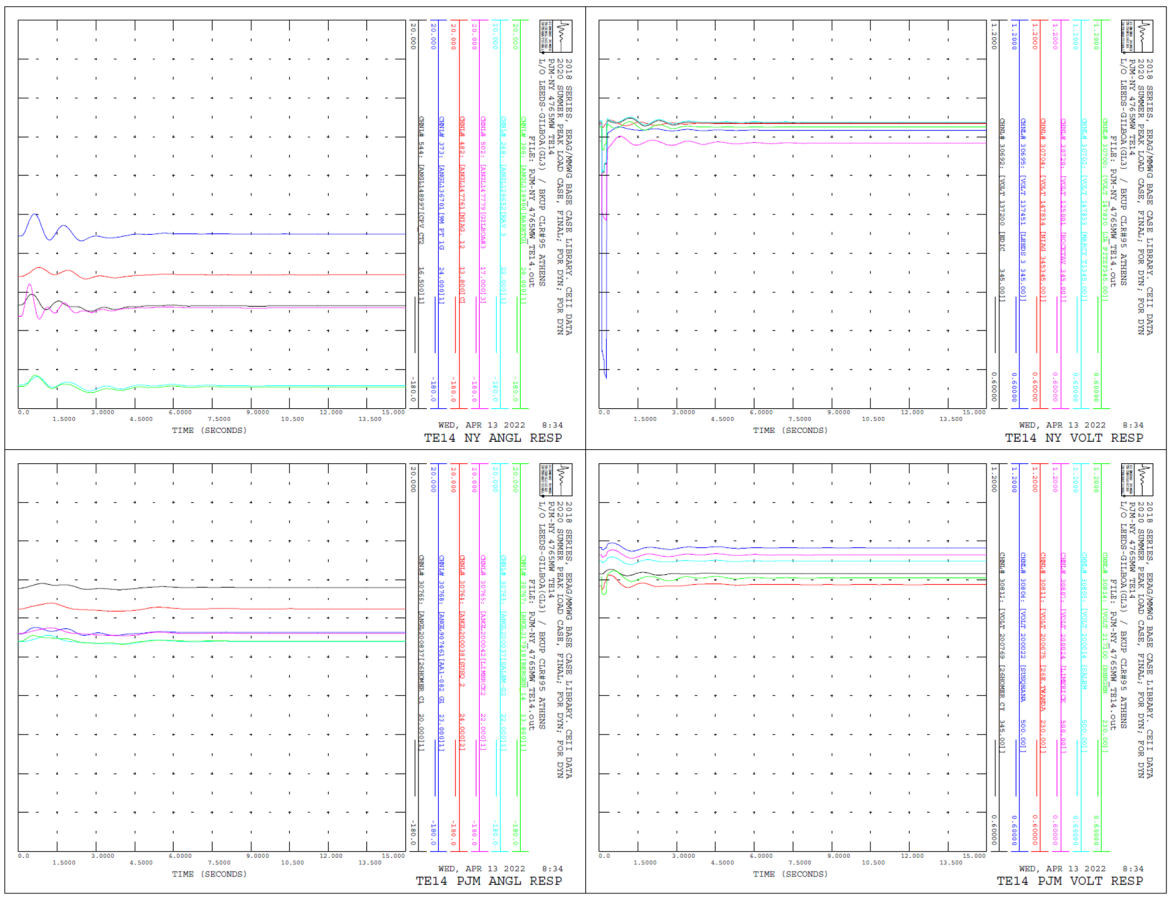


**Figure 162: PJM-NY 4765 MW Contingency TE14 Angle/Voltage Response Plots**

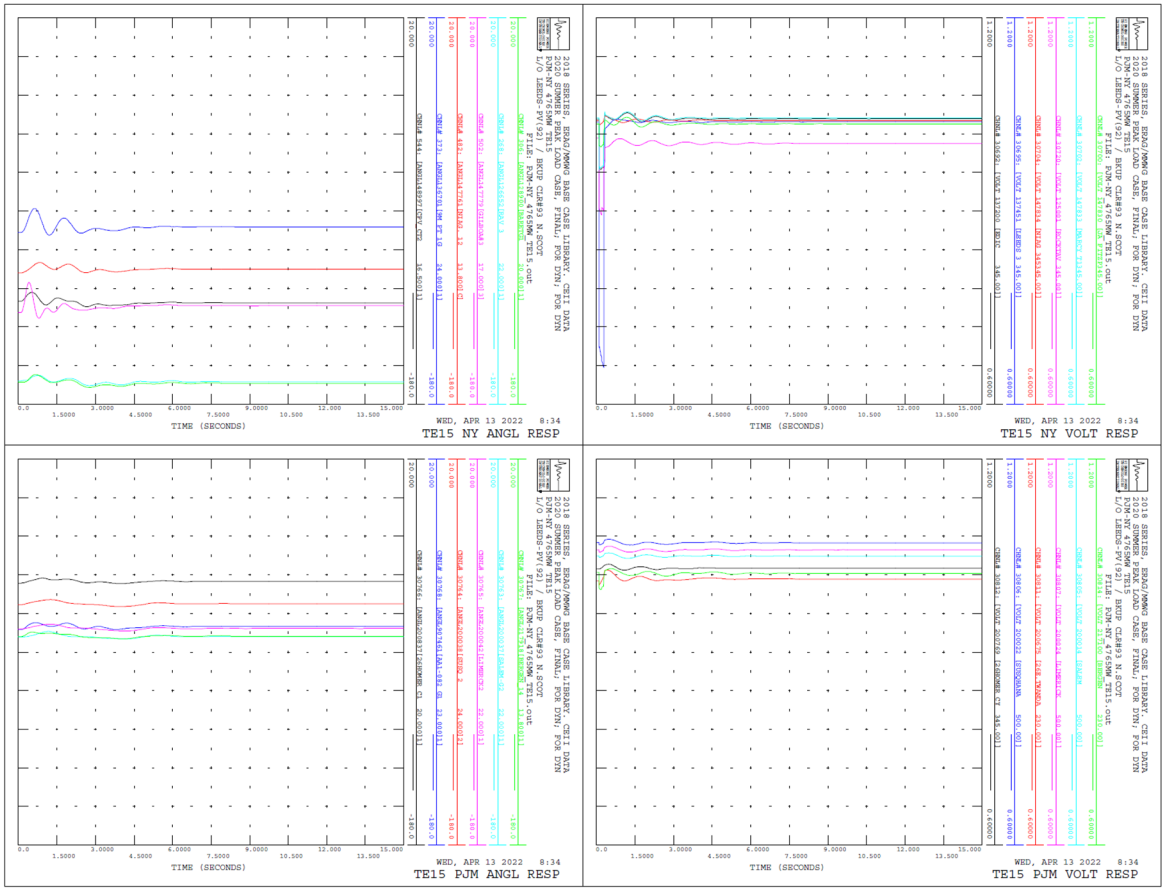


**Figure 163: PJM-NY 4765 MW Contingency TE15 Angle/Voltage Response Plots**

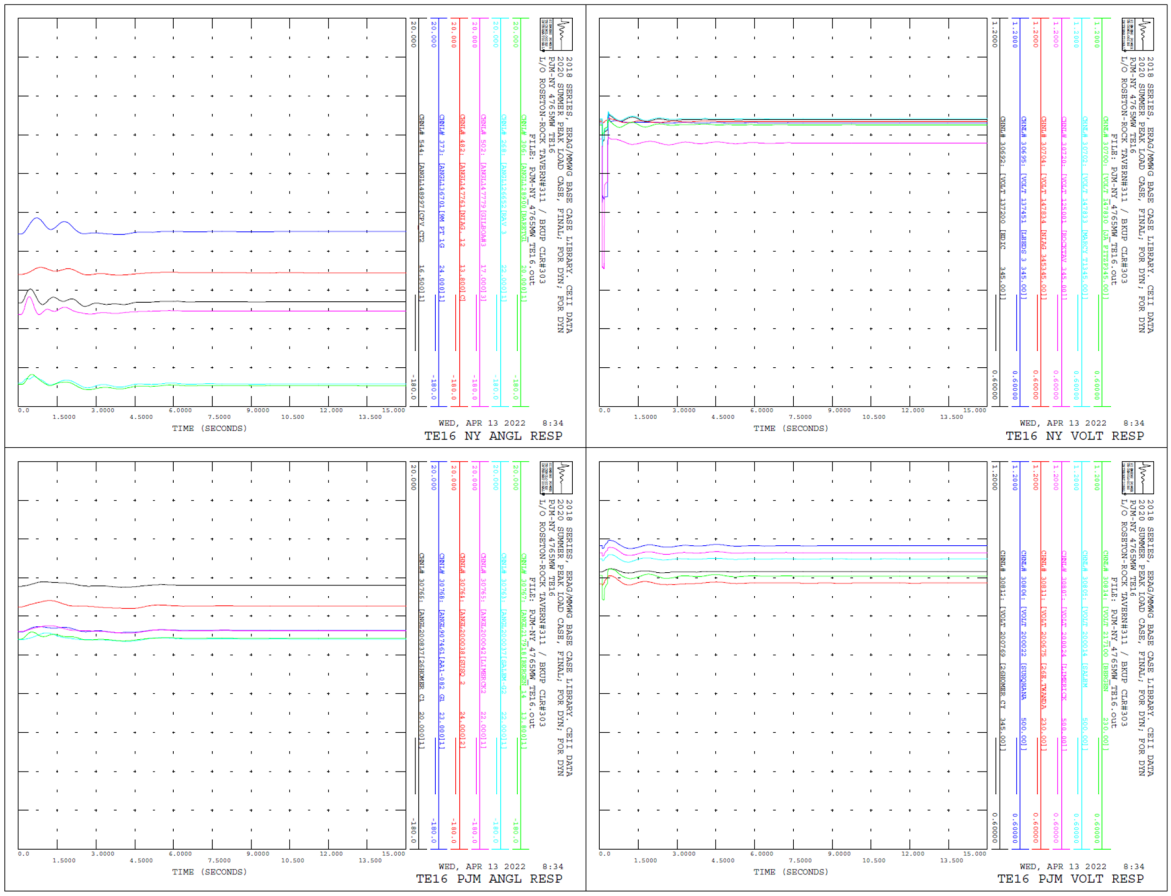


**Figure 164: PJM-NY 4765 MW Contingency TE16 Angle/Voltage Response Plots**

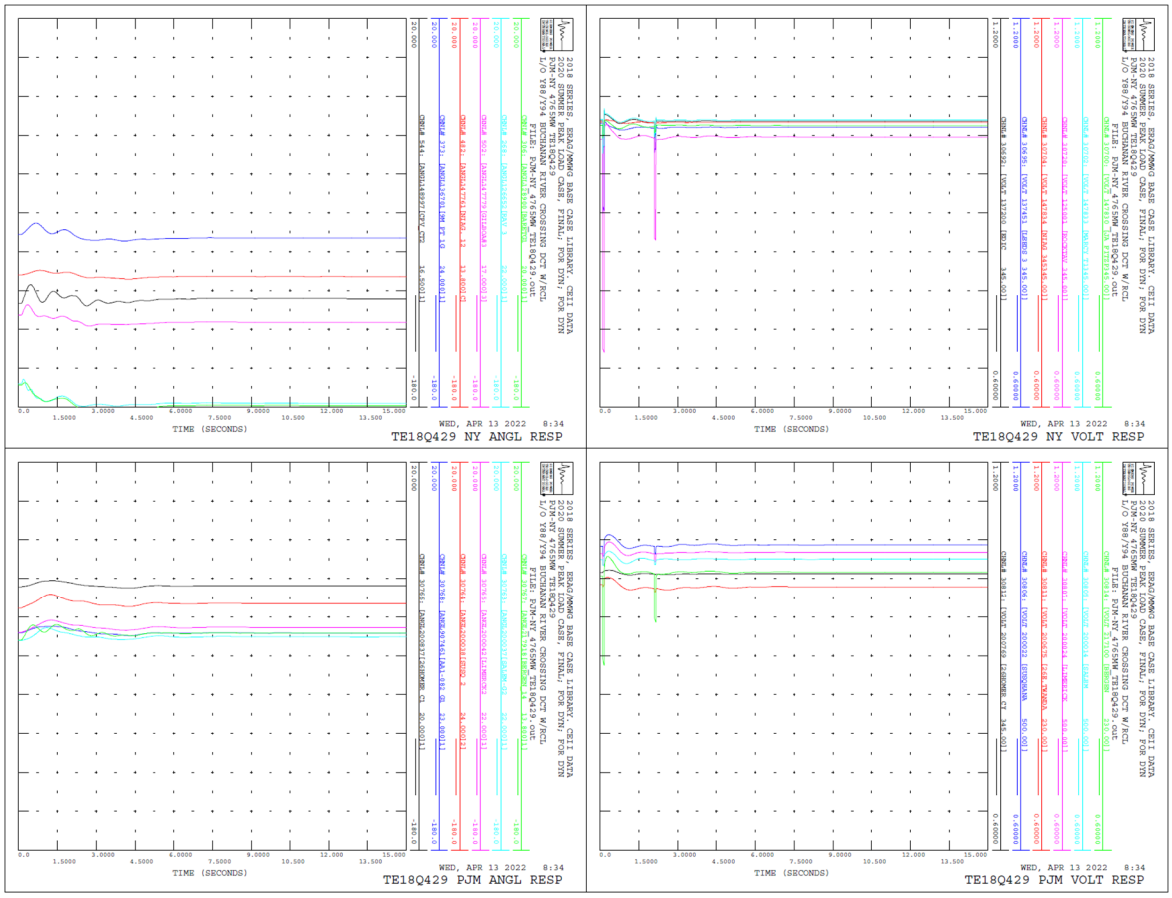


**Figure 165: PJM-NY 4765 MW Contingency TE18Q429 Angle/Voltage Response Plots**

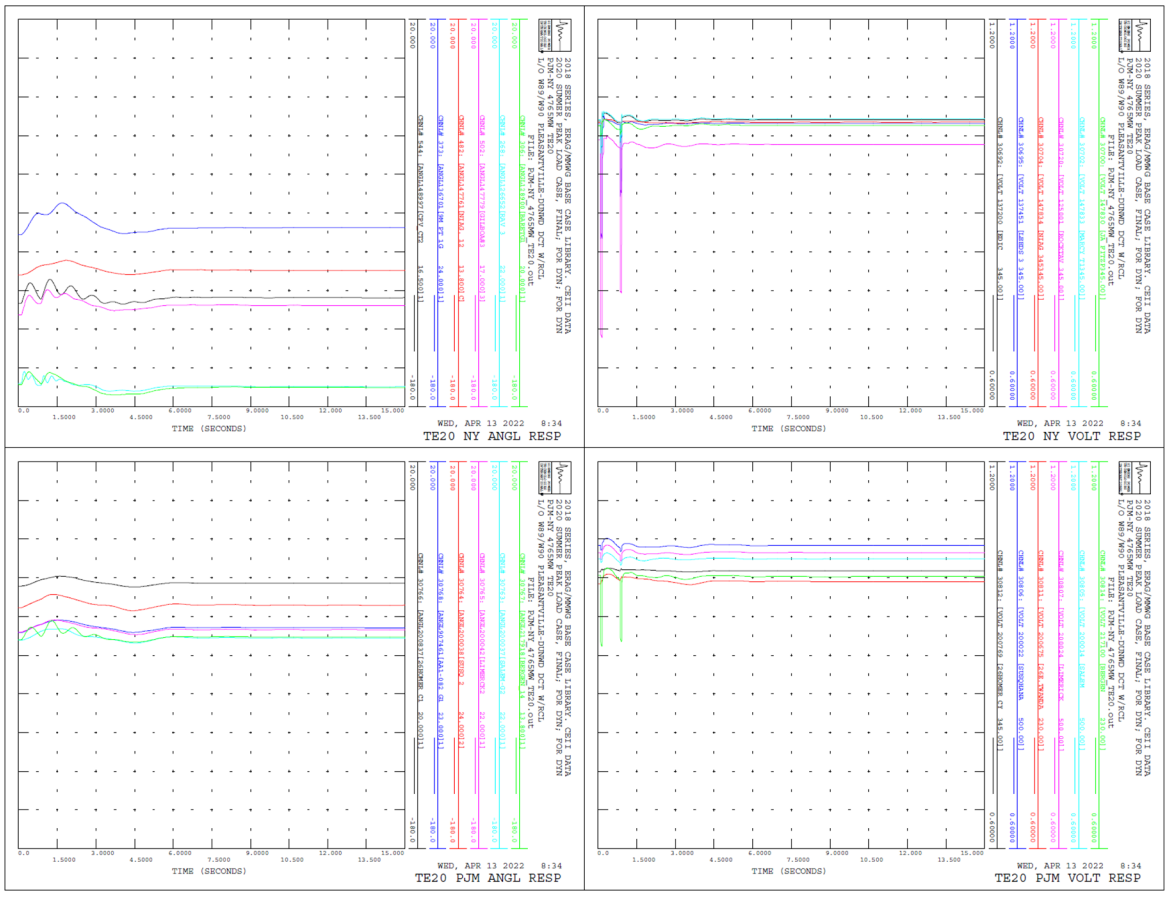


**Figure 166: PJM-NY 4765 MW Contingency TE20 Angle/Voltage Response Plots**

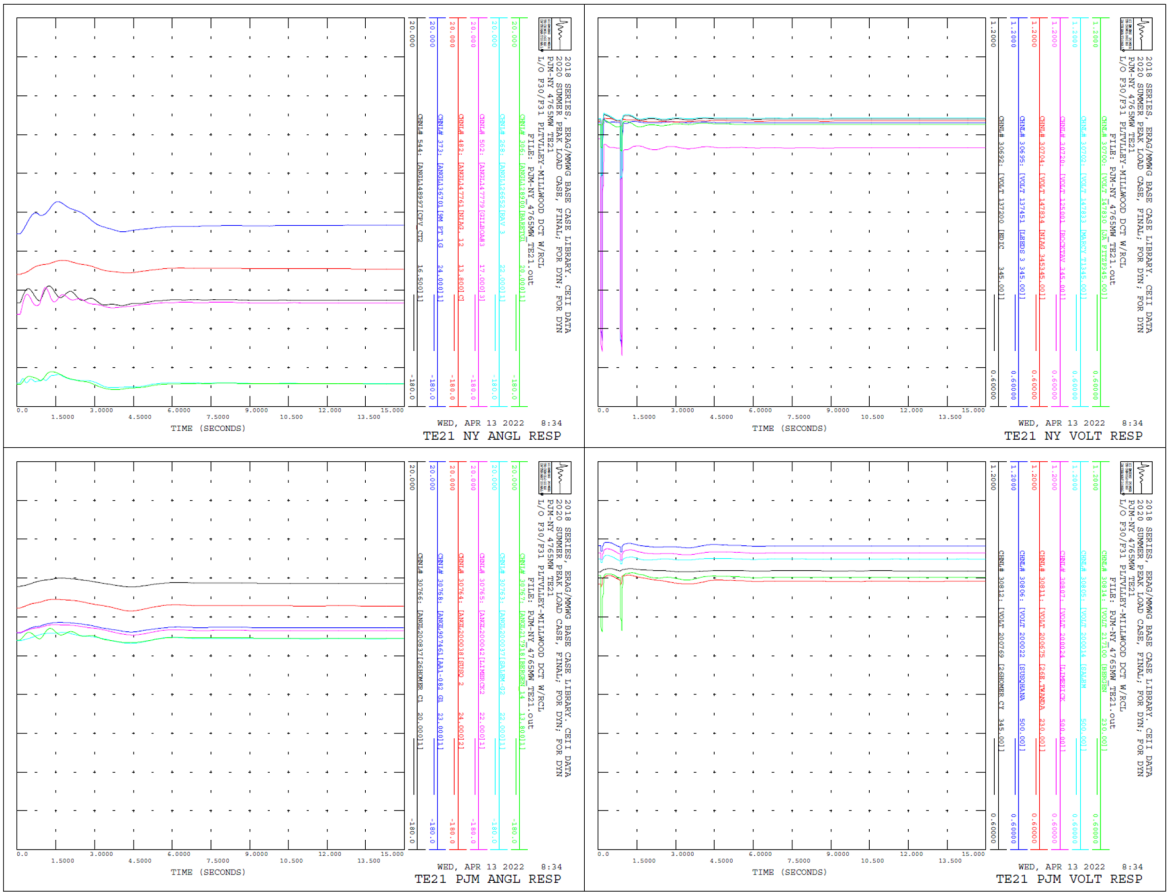


**Figure 167: PJM-NY 4765 MW Contingency TE21 Angle/Voltage Response Plots**

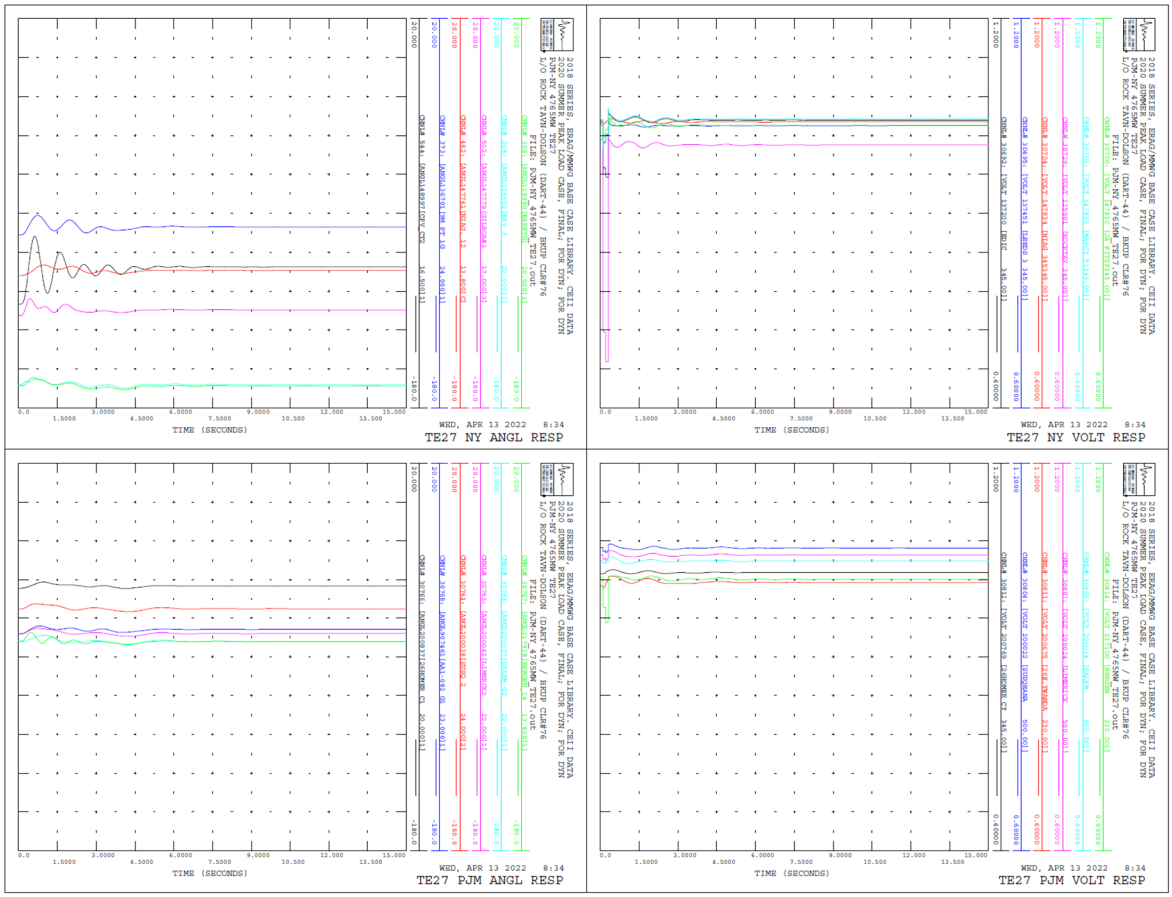


**Figure 168: PJM-NY 4765 MW Contingency TE27 Angle/Voltage Response Plots**

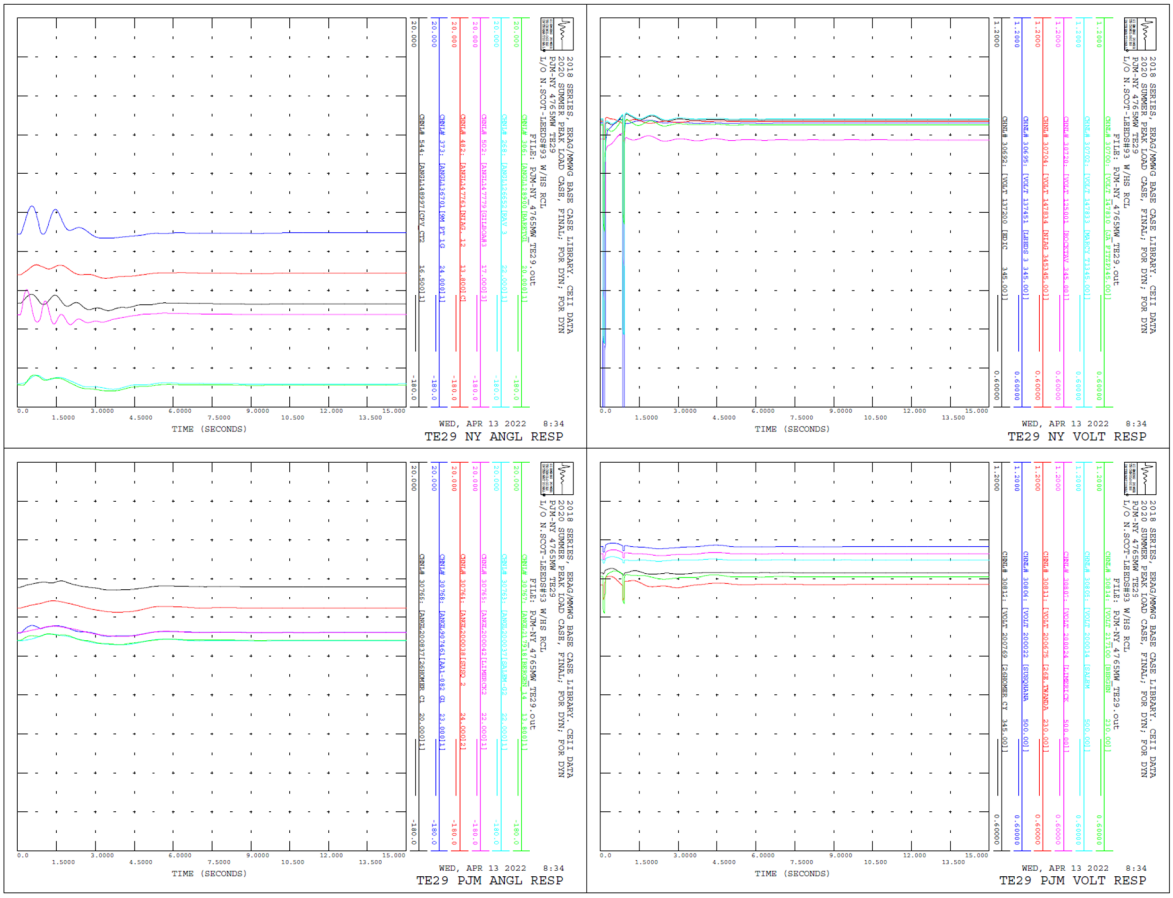


**Figure 169: PJM-NY 4765 MW Contingency TE29 Angle/Voltage Response Plots**

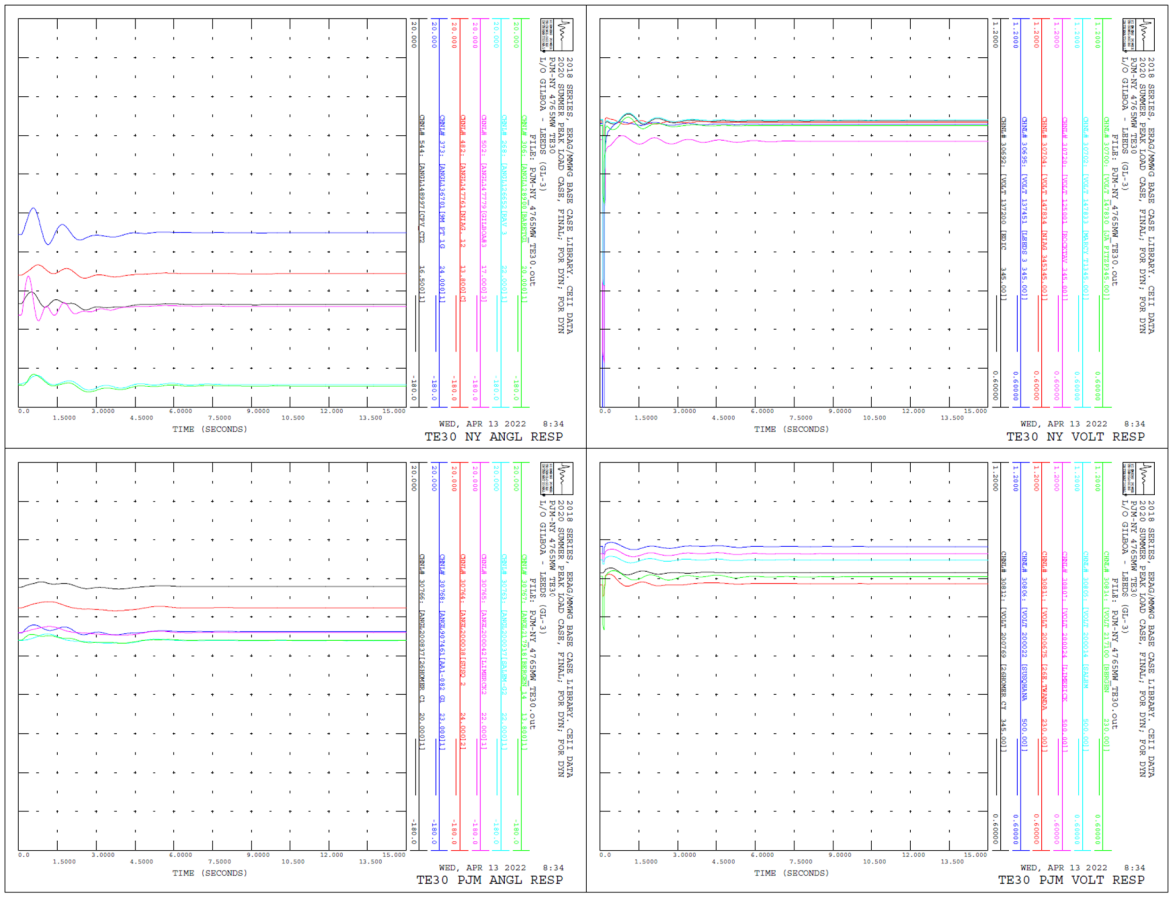


**Figure 170: PJM-NY 4765 MW Contingency TE30 Angle/Voltage Response Plots**

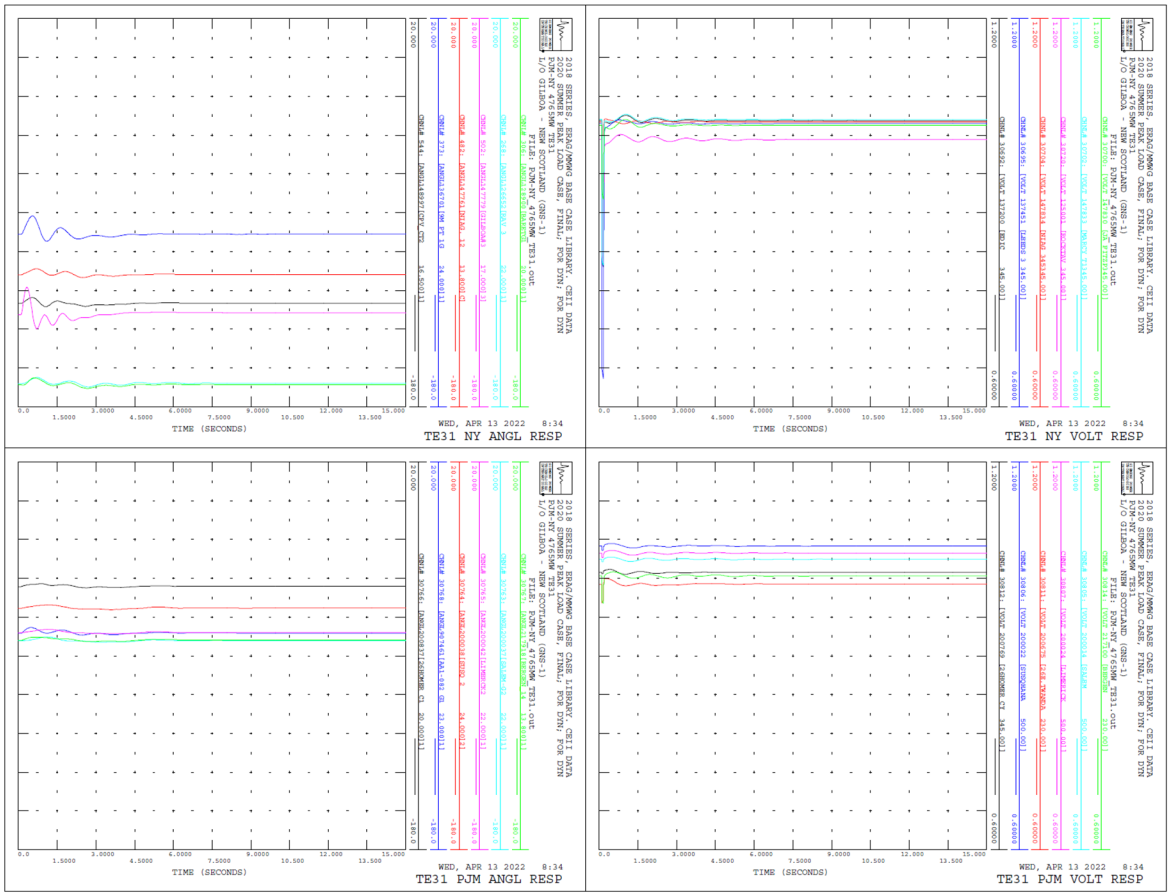


**Figure 171: PJM-NY 4765 MW Contingency TE31 Angle/Voltage Response Plots**

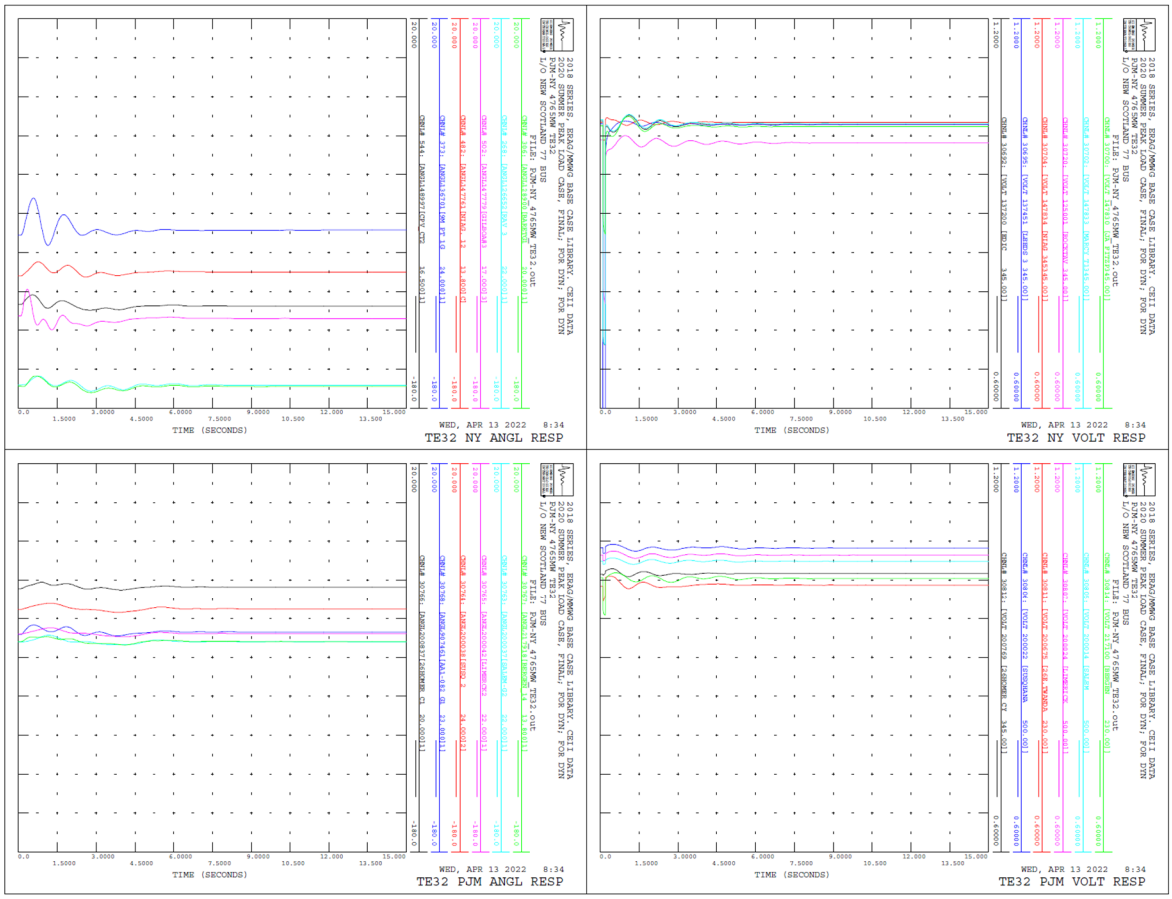


**Figure 172: PJM-NY 4765 MW Contingency TE32 Angle/Voltage Response Plots**

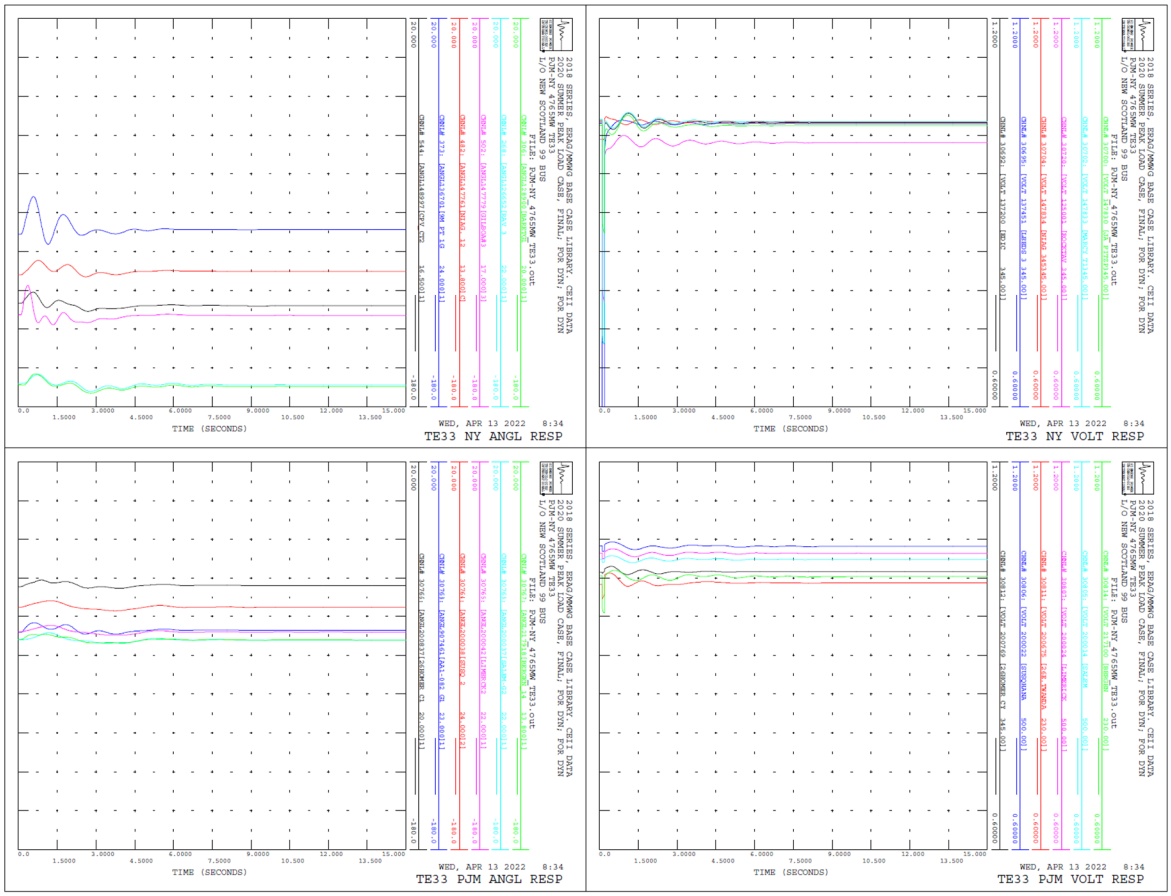


**Figure 173: PJM-NY 4765 MW Contingency TE33 Angle/Voltage Response Plots**

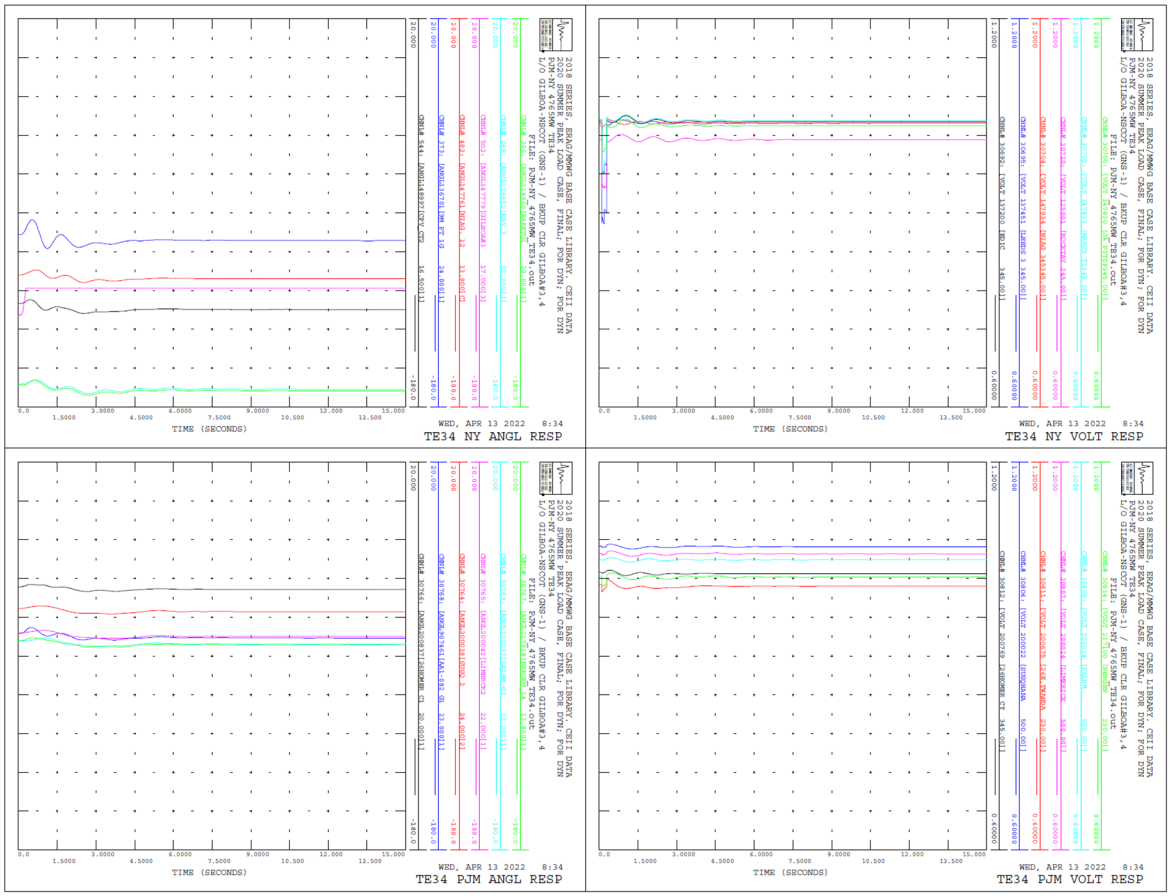


**Figure 174: PJM-NY 4765 MW Contingency TE34 Angle/Voltage Response Plots**

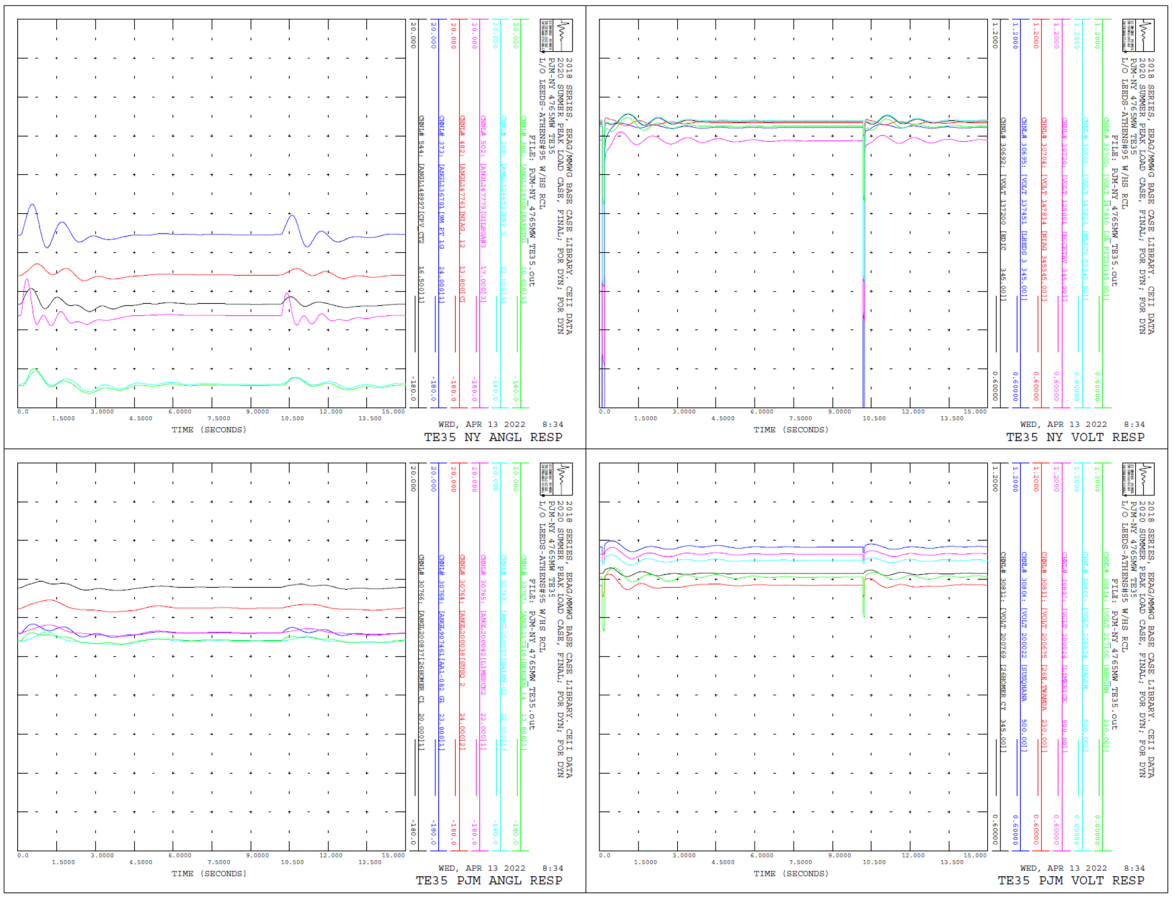


**Figure 175: PJM-NY 4765 MW Contingency TE35 Angle/Voltage Response Plots**

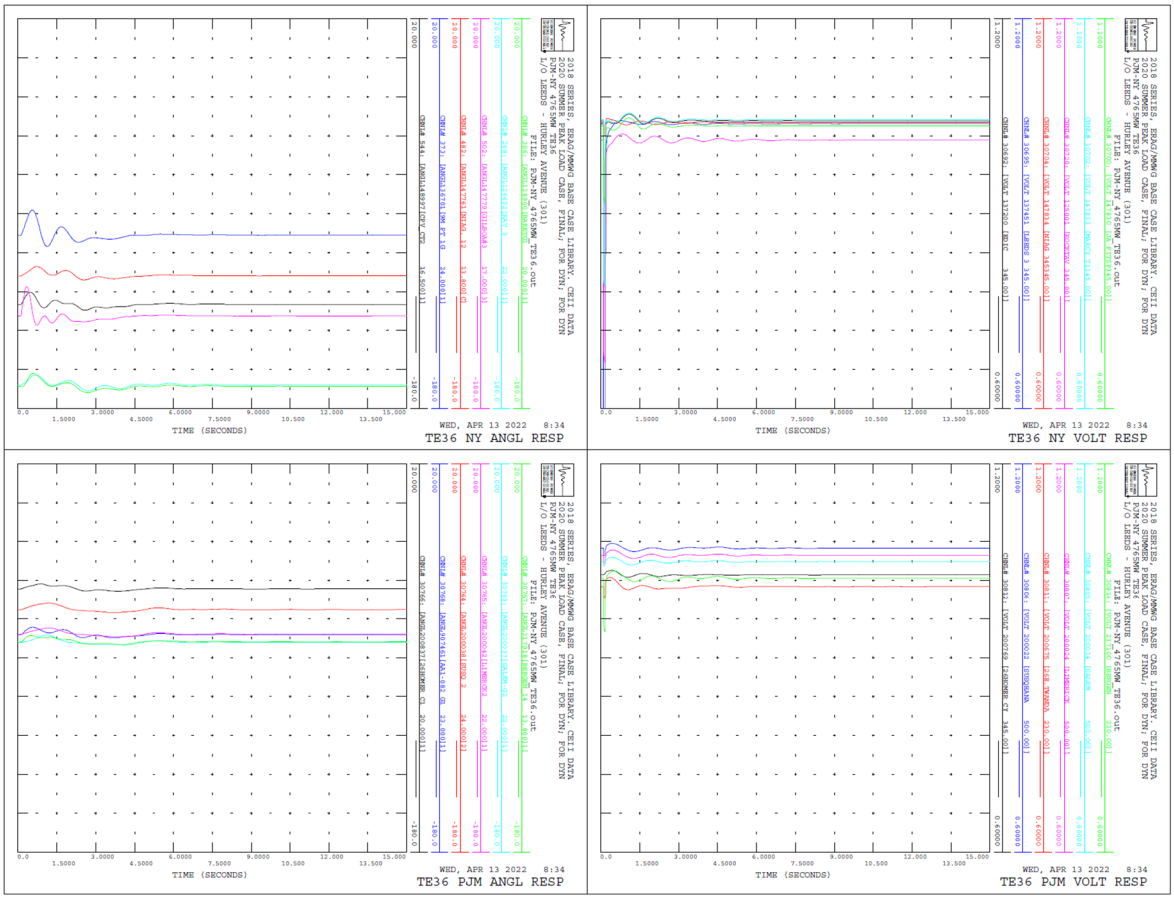


**Figure 176: PJM-NY 4765 MW Contingency TE36 Angle/Voltage Response Plots**

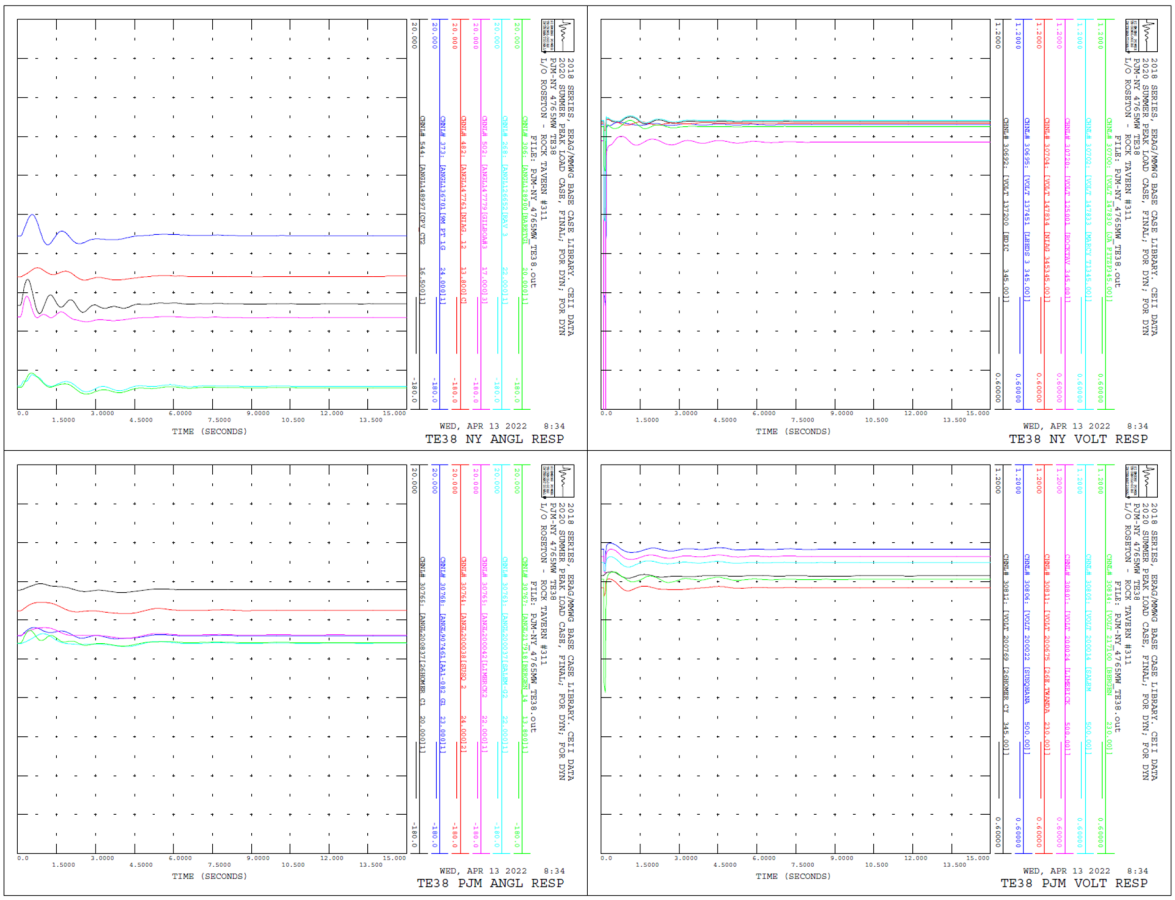


**Figure 177: PJM-NY 4765 MW Contingency TE38 Angle/Voltage Response Plots**

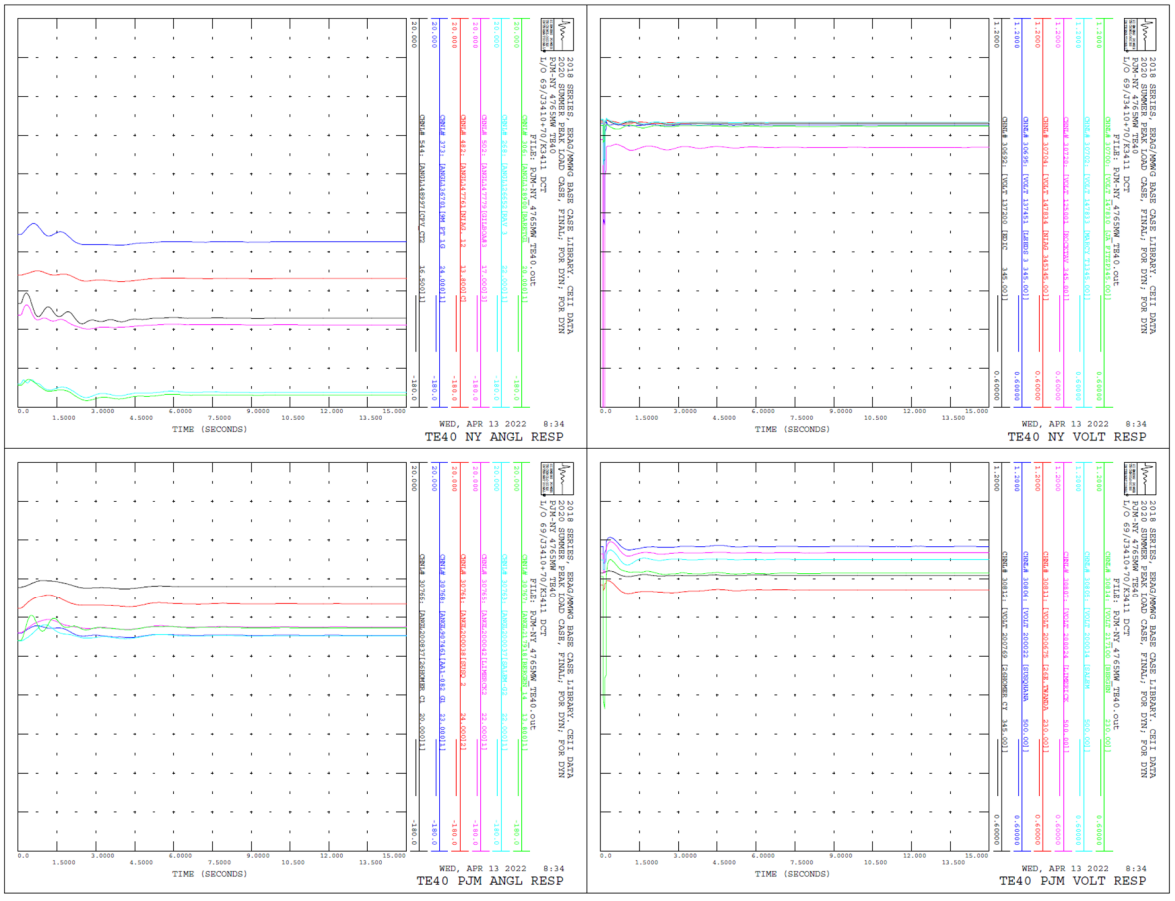


**Figure 178: PJM-NY 4765 MW Contingency TE40 Angle/Voltage Response Plots**

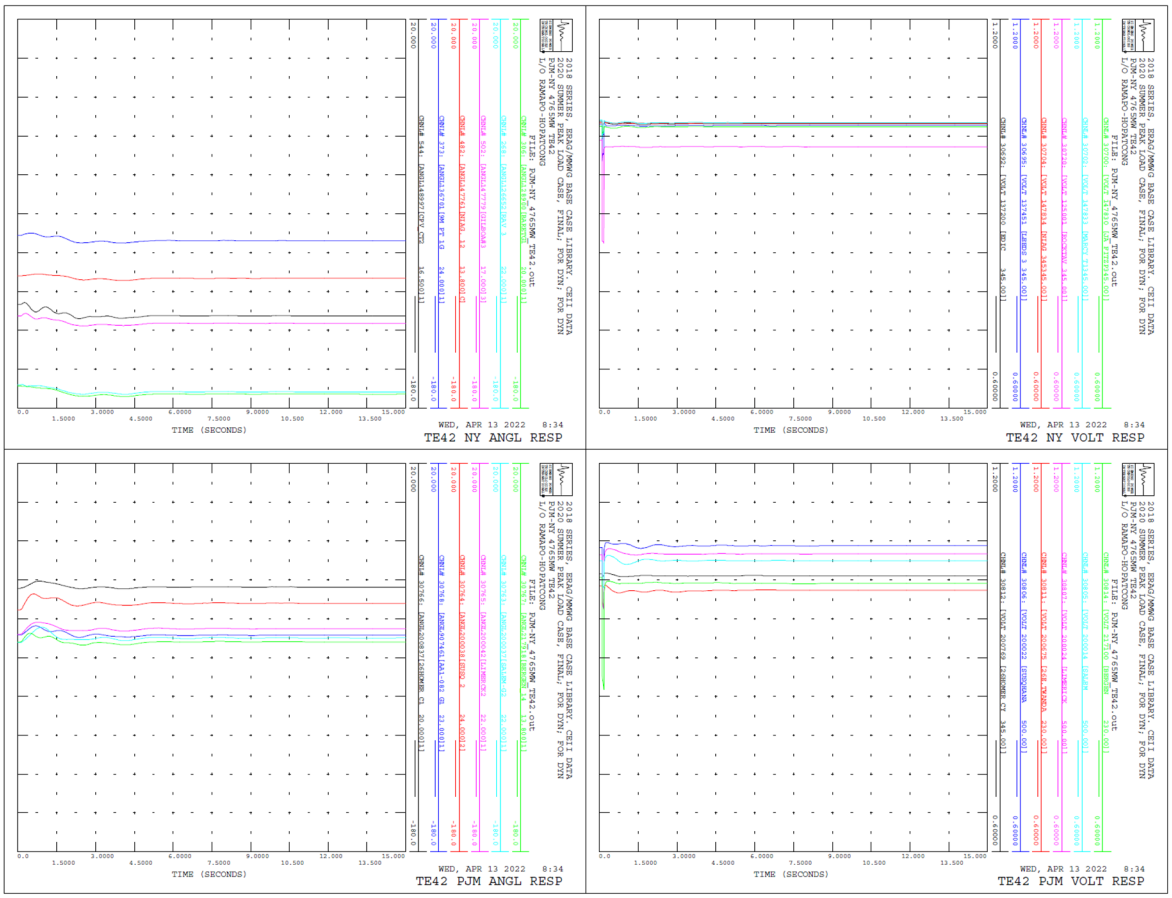


**Figure 179: PJM-NY 4765 MW Contingency TE42 Angle/Voltage Response Plots**

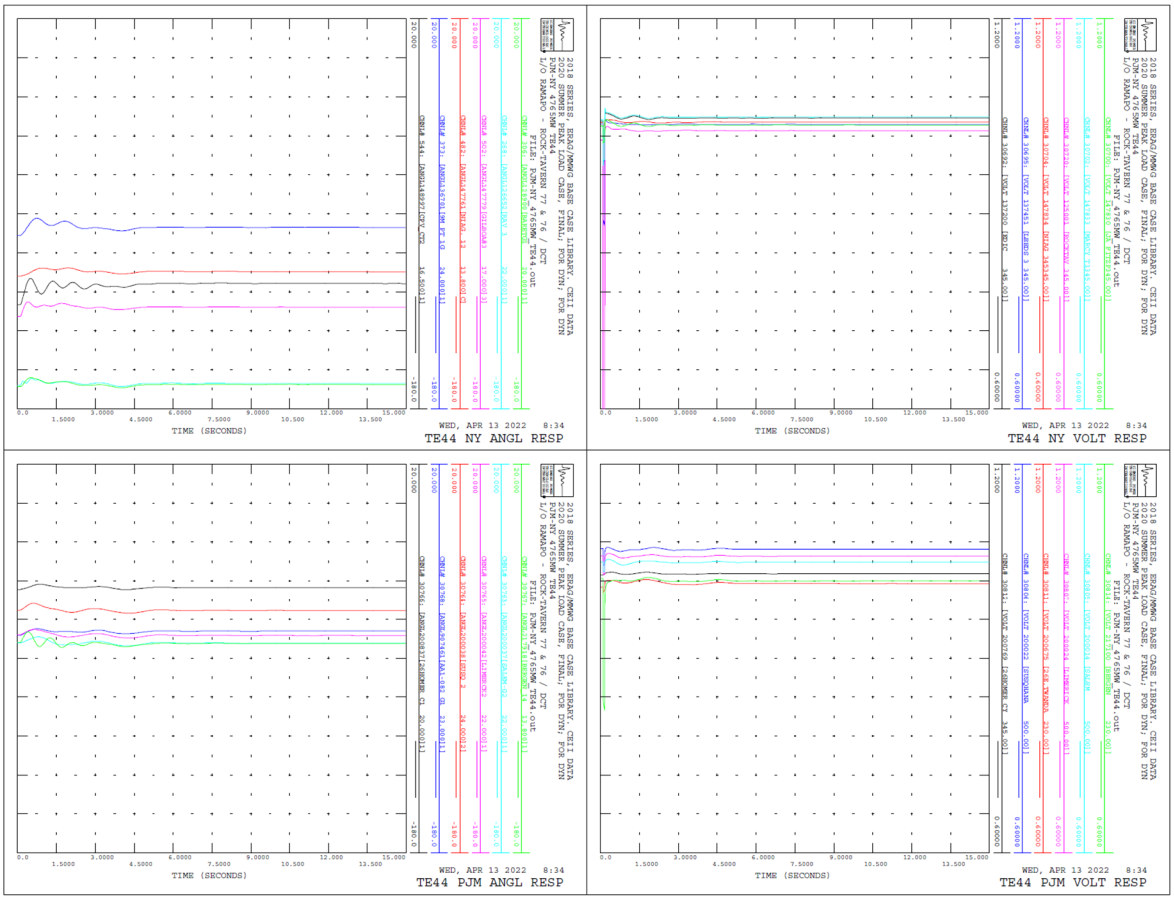


**Figure 180: PJM-NY 4765 MW Contingency TE44 Angle/Voltage Response Plots**

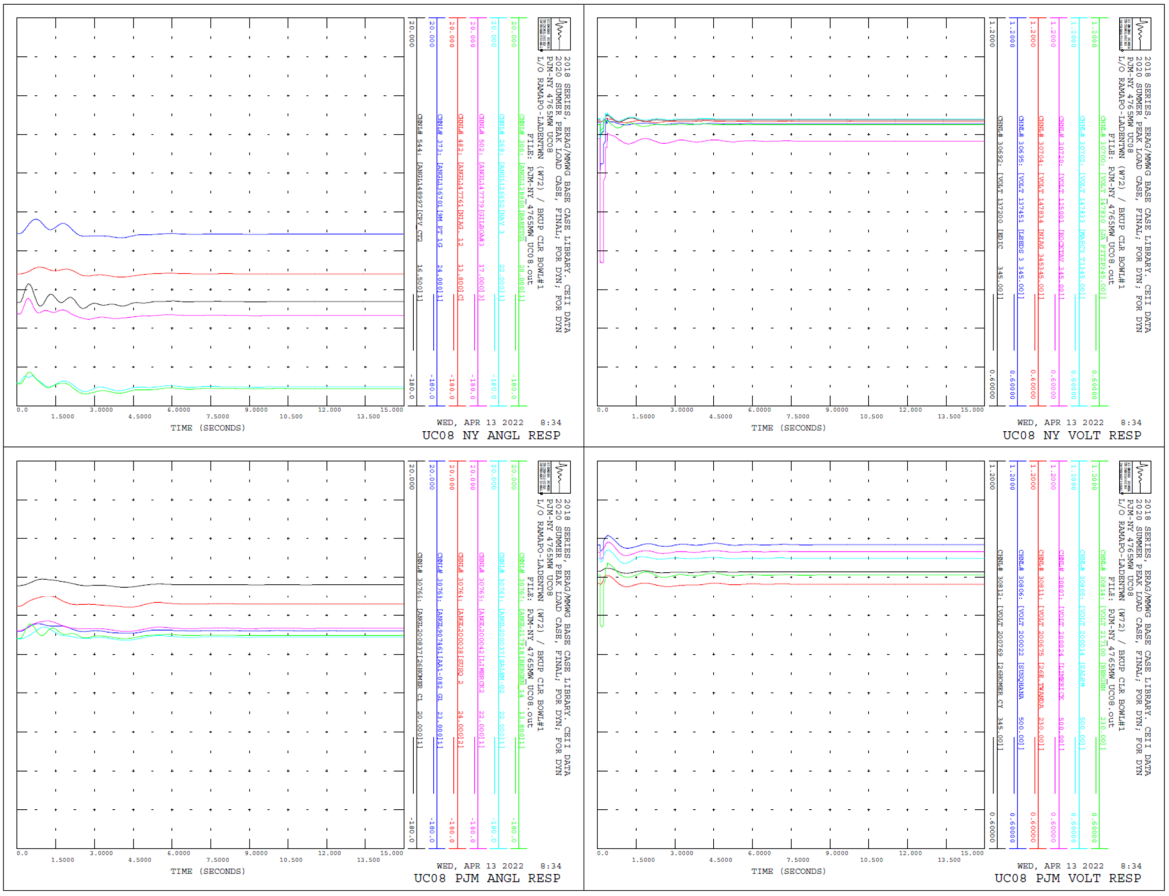


**Figure 181: PJM-NY 4765 MW Contingency UC08 Angle/Voltage Response Plots**

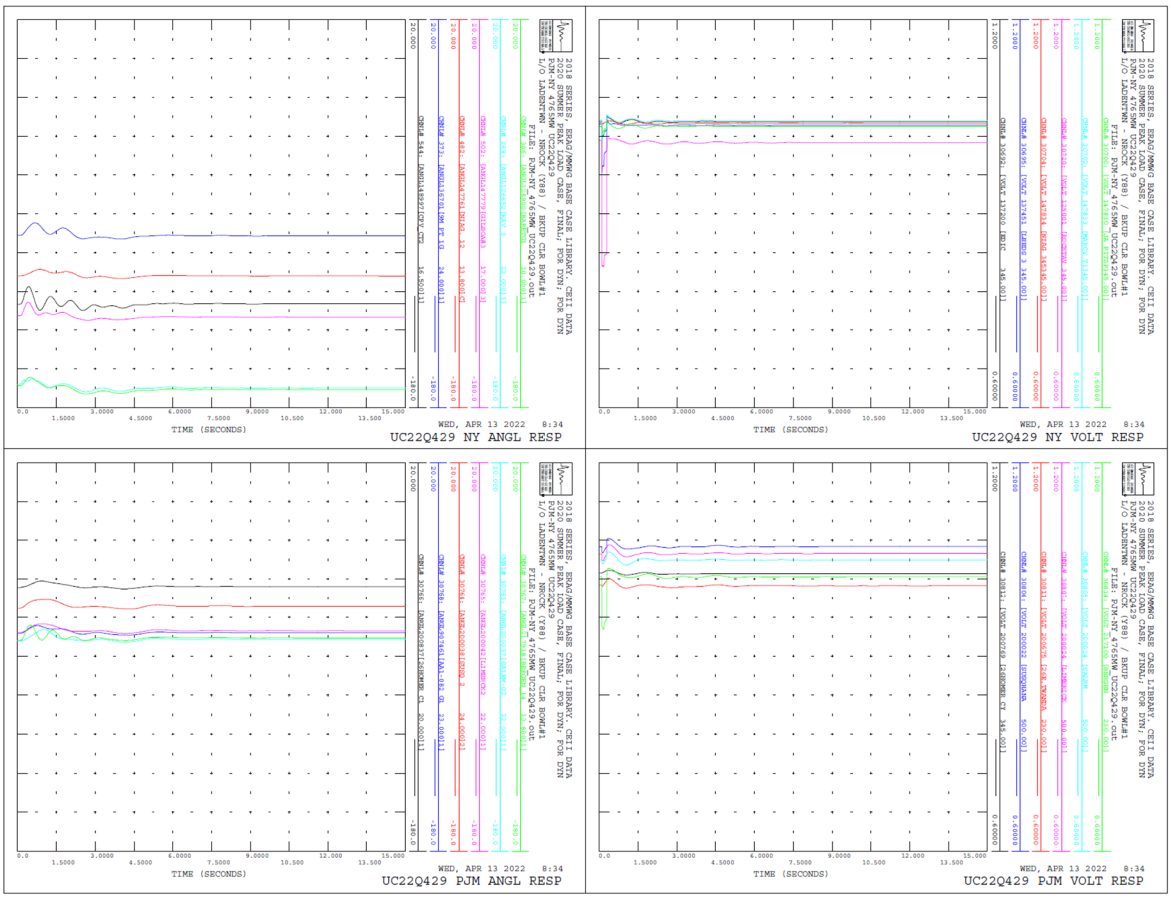


**Figure 182: PJM-NY 4765 MW Contingency UC22Q429 Angle/Voltage Response Plots**

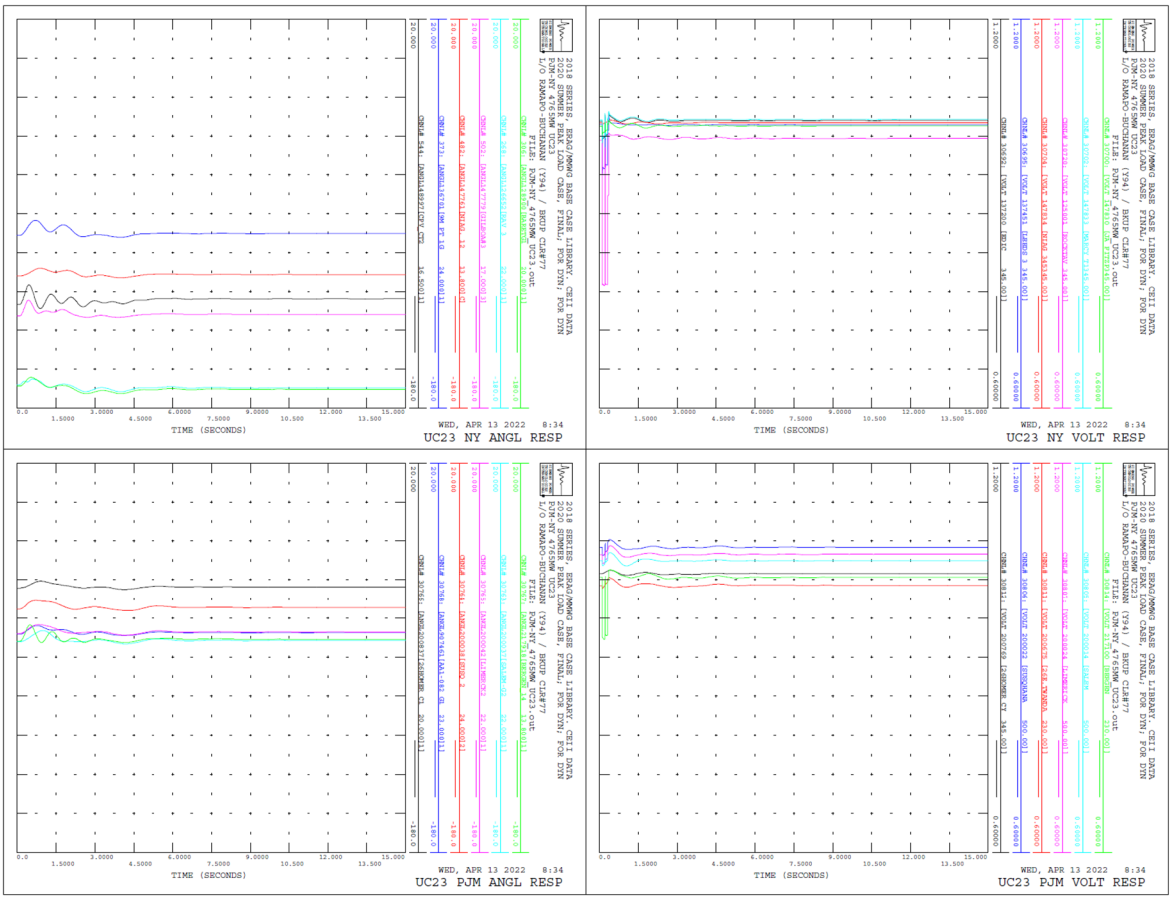


**Figure 183: PJM-NY 4765 MW Contingency UC23 Angle/Voltage Response Plots**

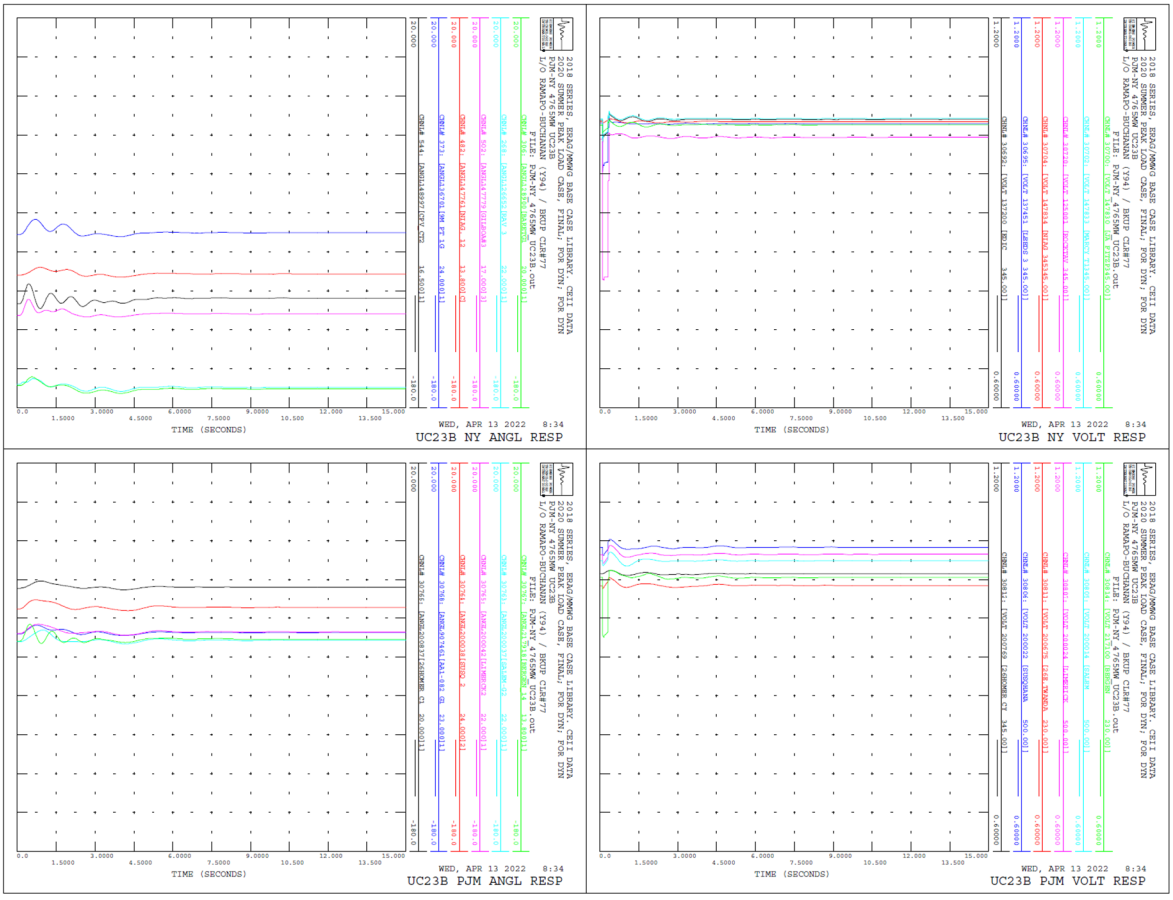


**Figure 184: PJM-NY 4765 MW Contingency UC23B Angle/Voltage Response Plots**

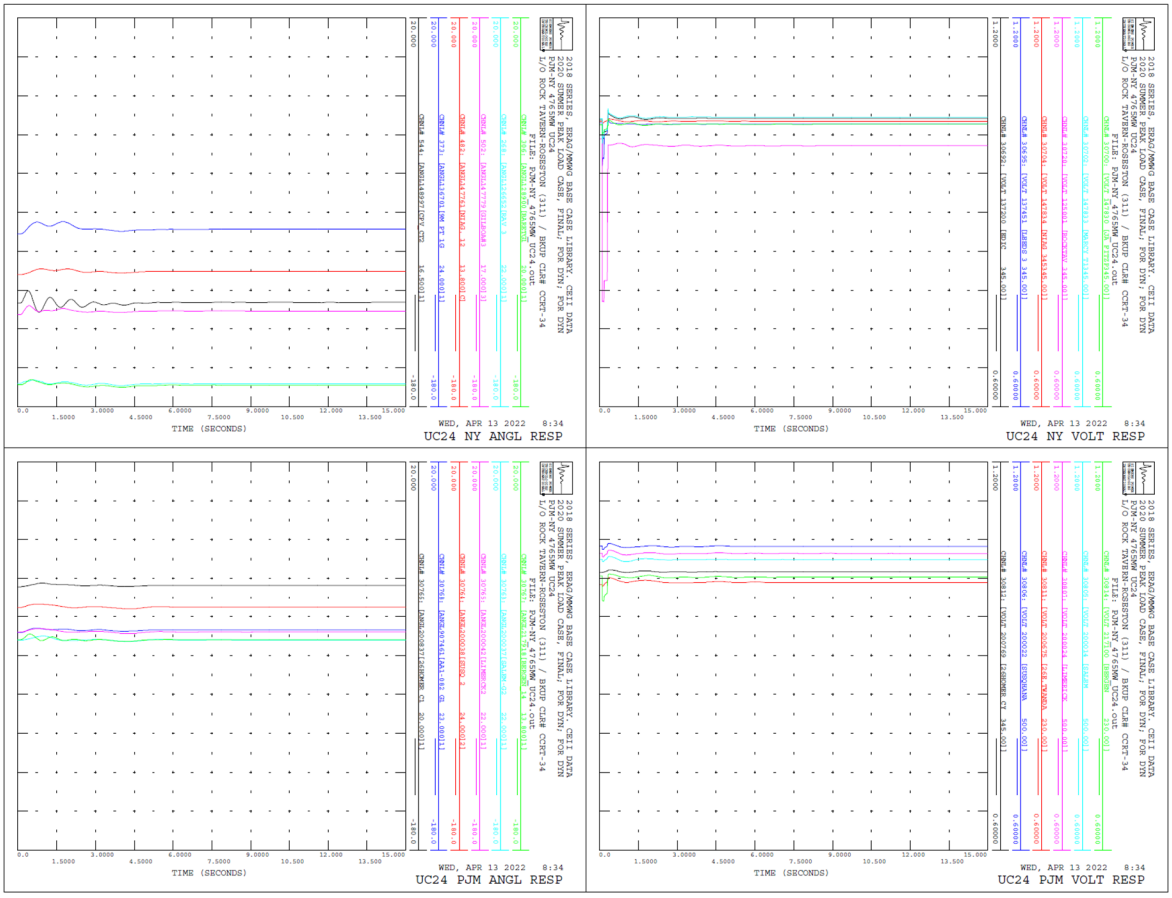


**Figure 185: PJM-NY 4765 MW Contingency UC24 Angle/Voltage Response Plots**

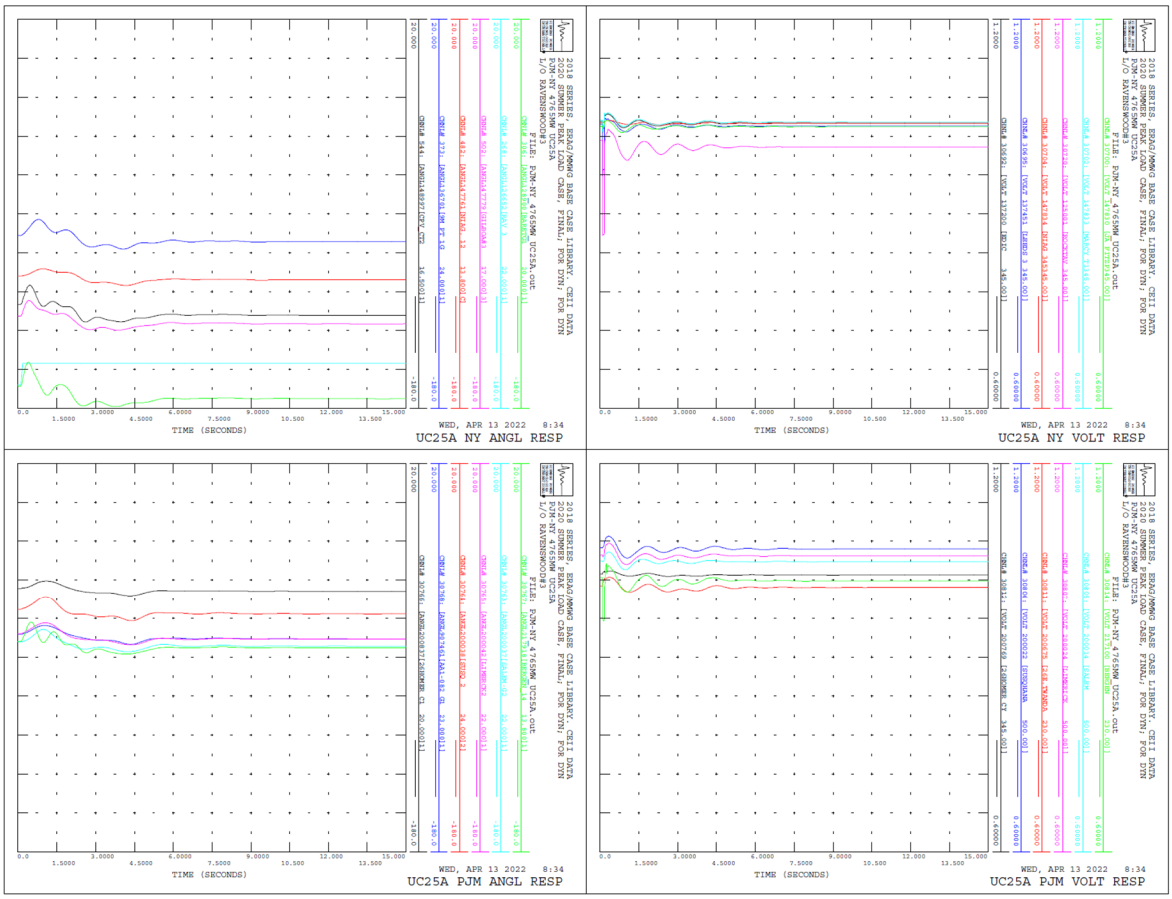


**Figure 186: PJM-NY 4765 MW Contingency UC25A Angle/Voltage Response Plots**

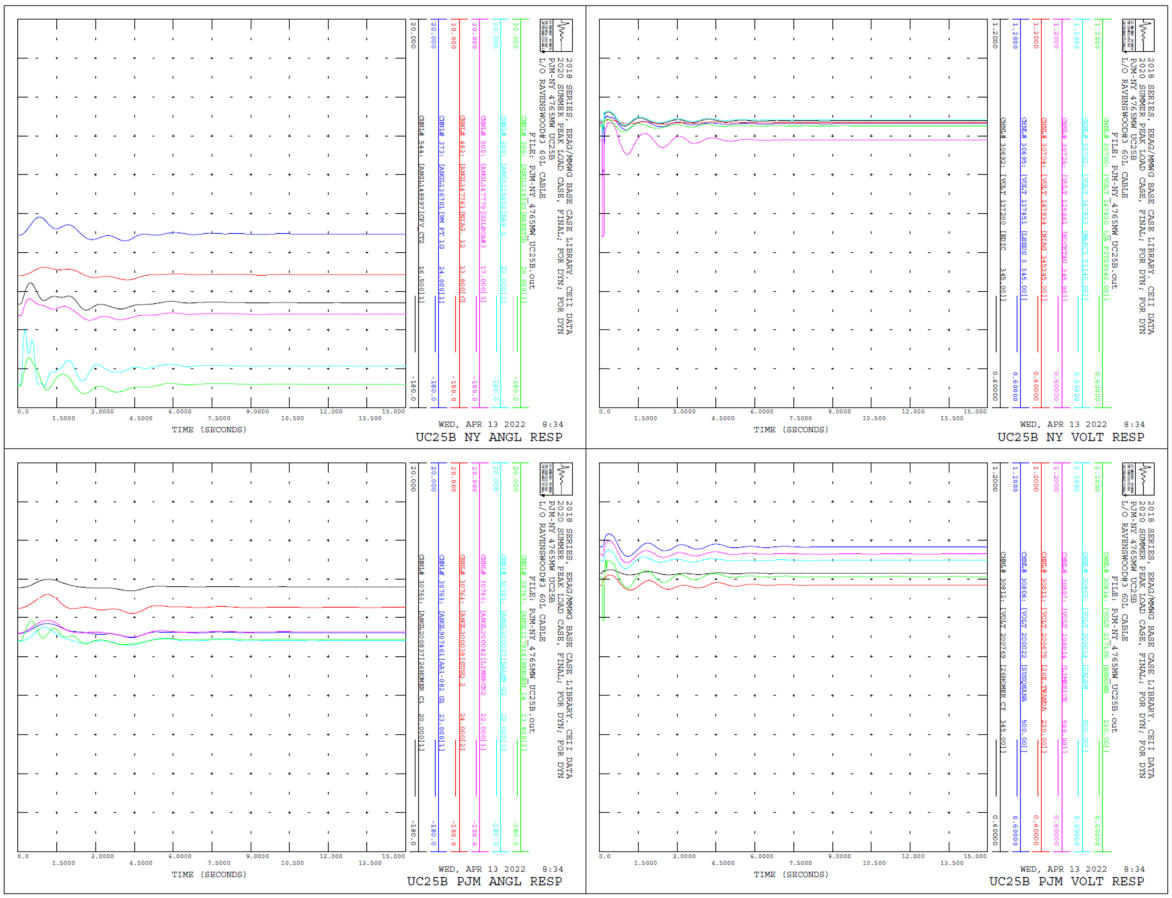


**Figure 187: PJM-NY 4765 MW Contingency UC25B Angle/Voltage Response Plots**

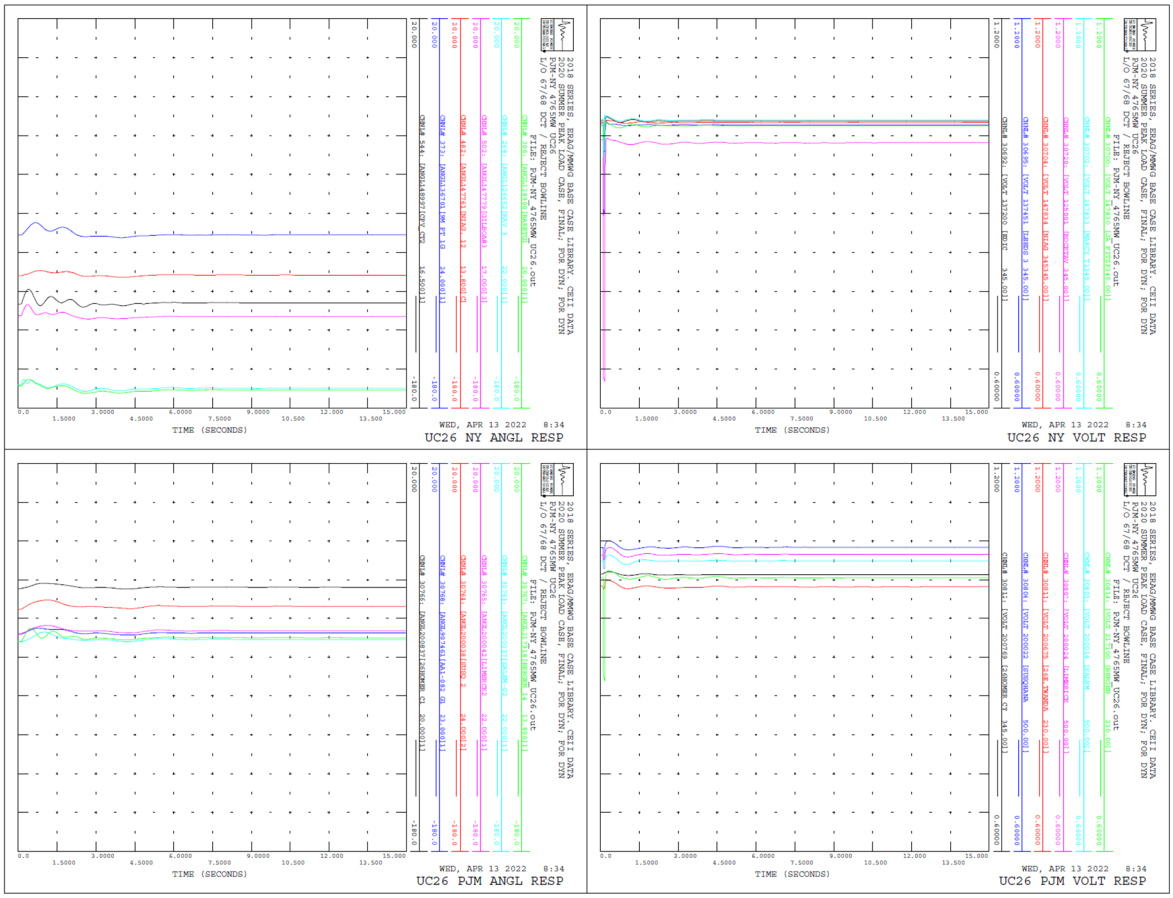


**Figure 188: PJM-NY 4765 MW Contingency UC26 Angle/Voltage Response Plots**

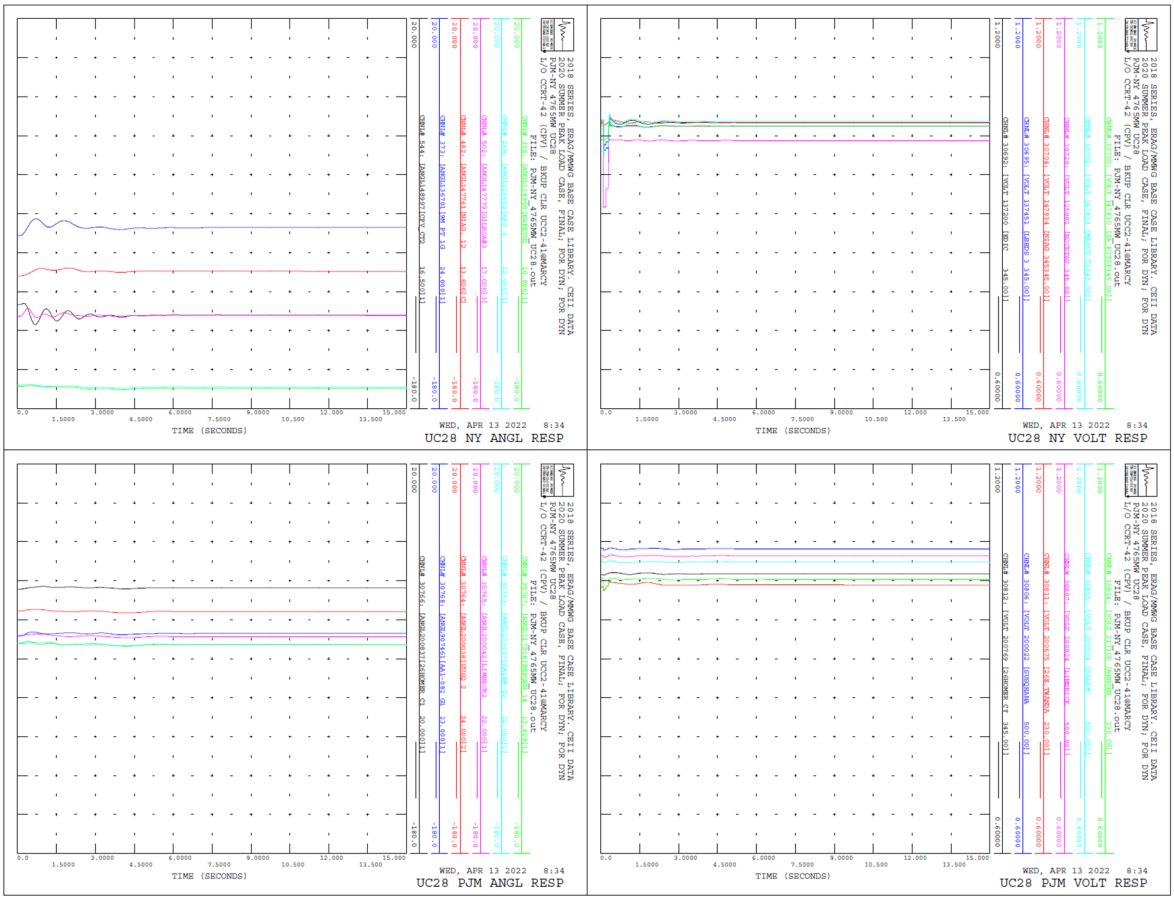


**Figure 189: PJM-NY 4765 MW Contingency UC28 Angle/Voltage Response Plots**

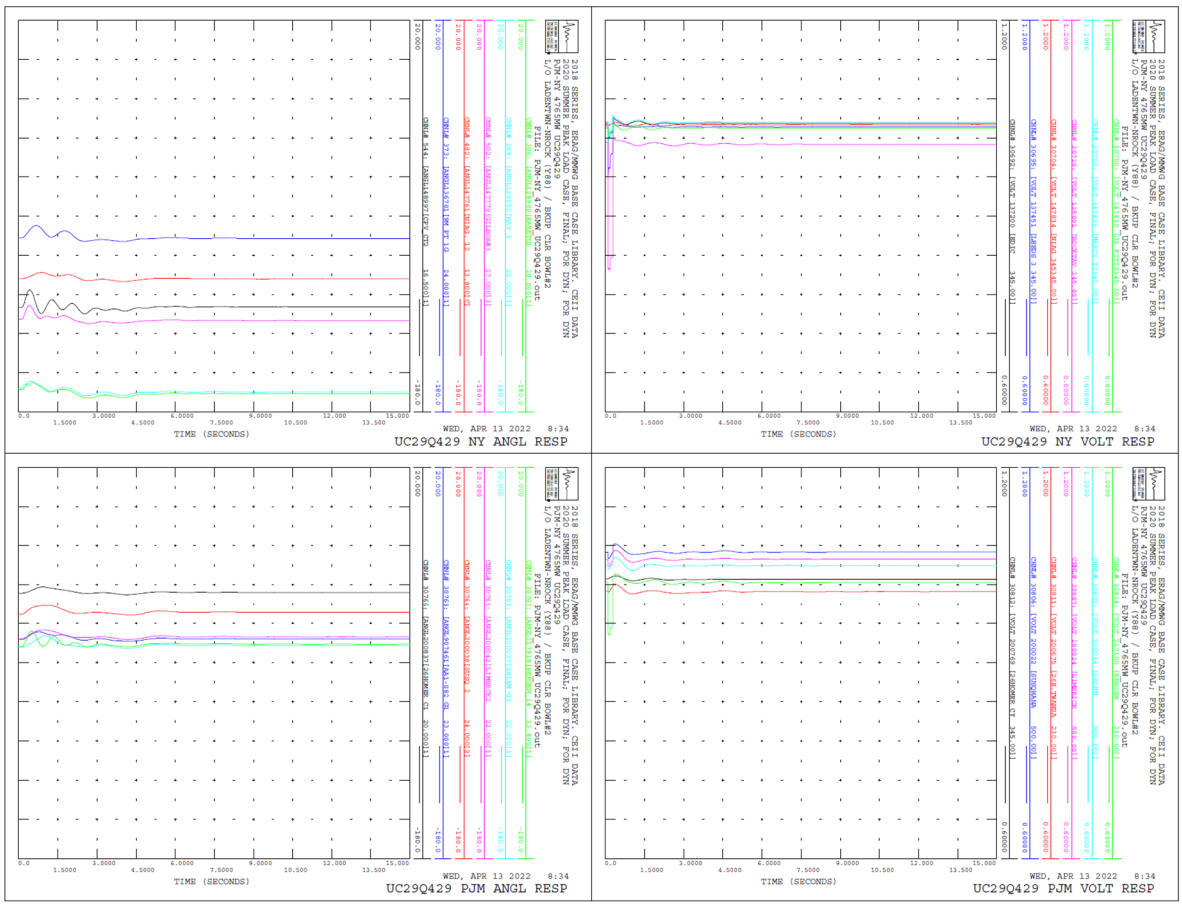


**Figure 190: PJM-NY 4765 MW Contingency UC29Q429 Angle/Voltage Response Plots**

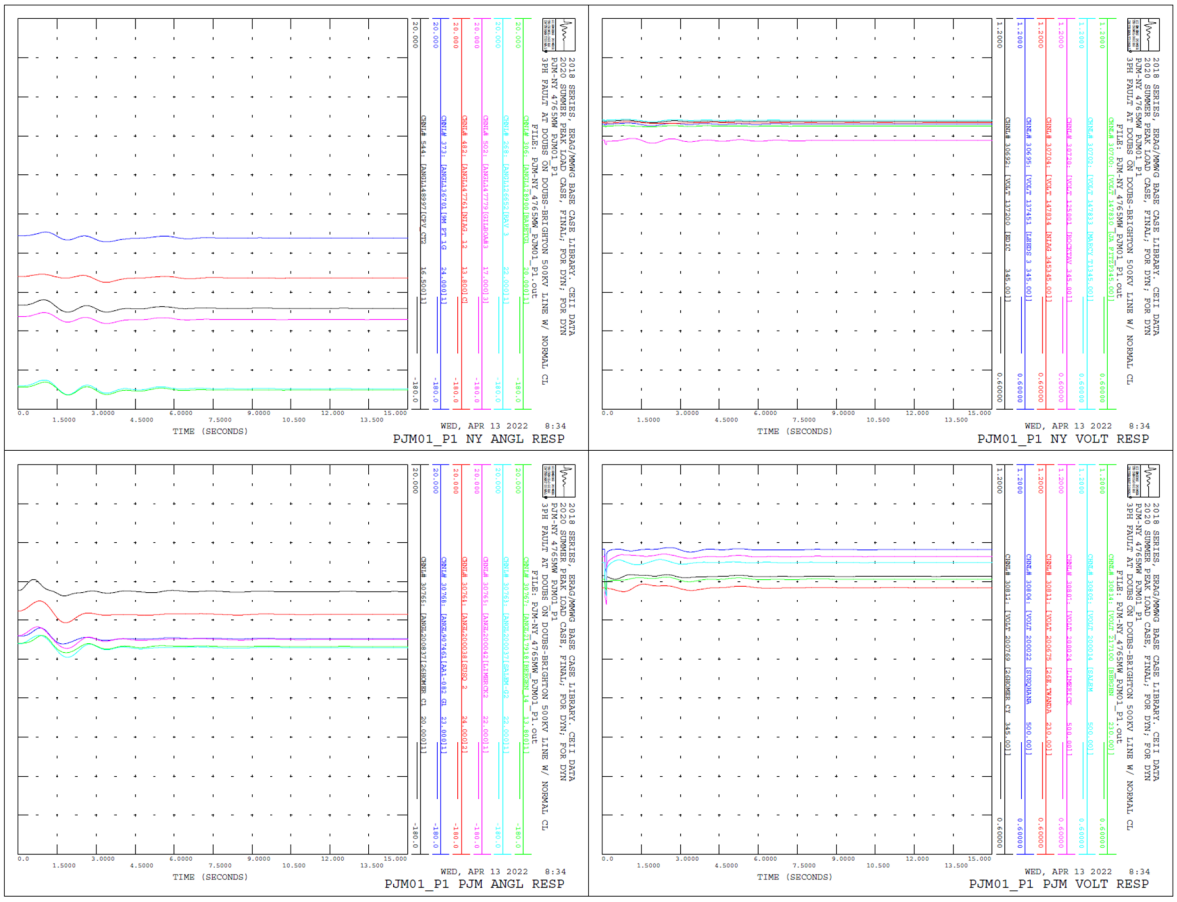


**Figure 191: PJM-NY 4765 MW Contingency PJM01_P1 Angle/Voltage Response Plots**

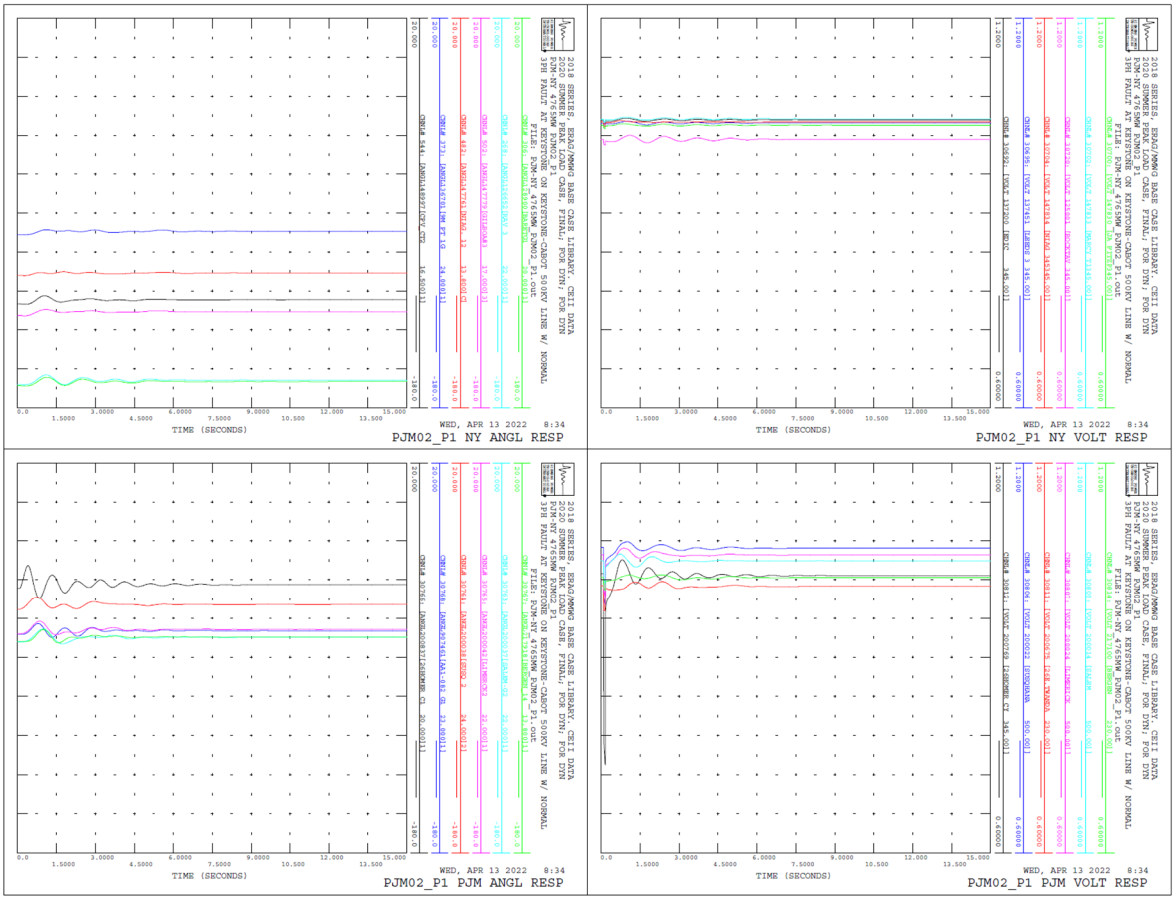


**Figure 192: PJM-NY 4765 MW Contingency PJM02_P1 Angle/Voltage Response Plots**

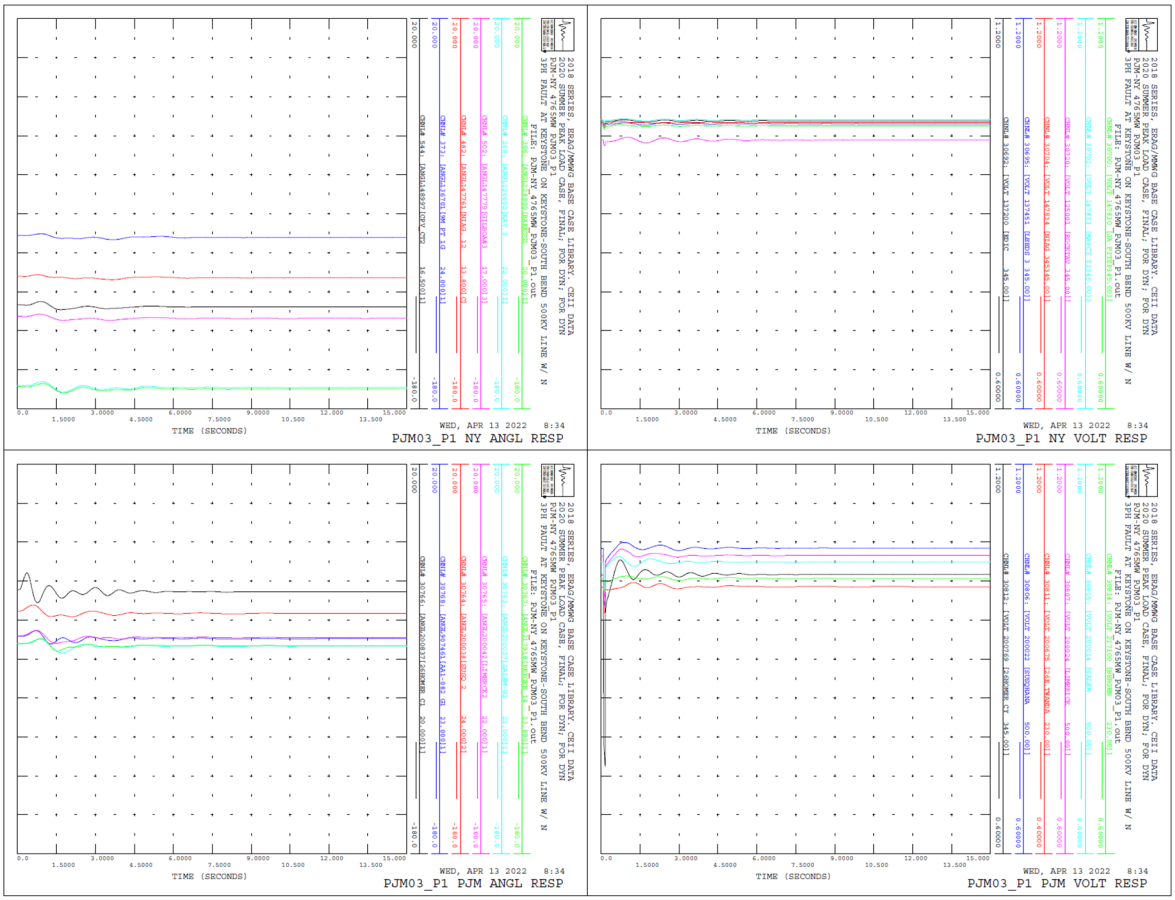


**Figure 193: PJM-NY 4765 MW Contingency PJM03_P1 Angle/Voltage Response Plots**

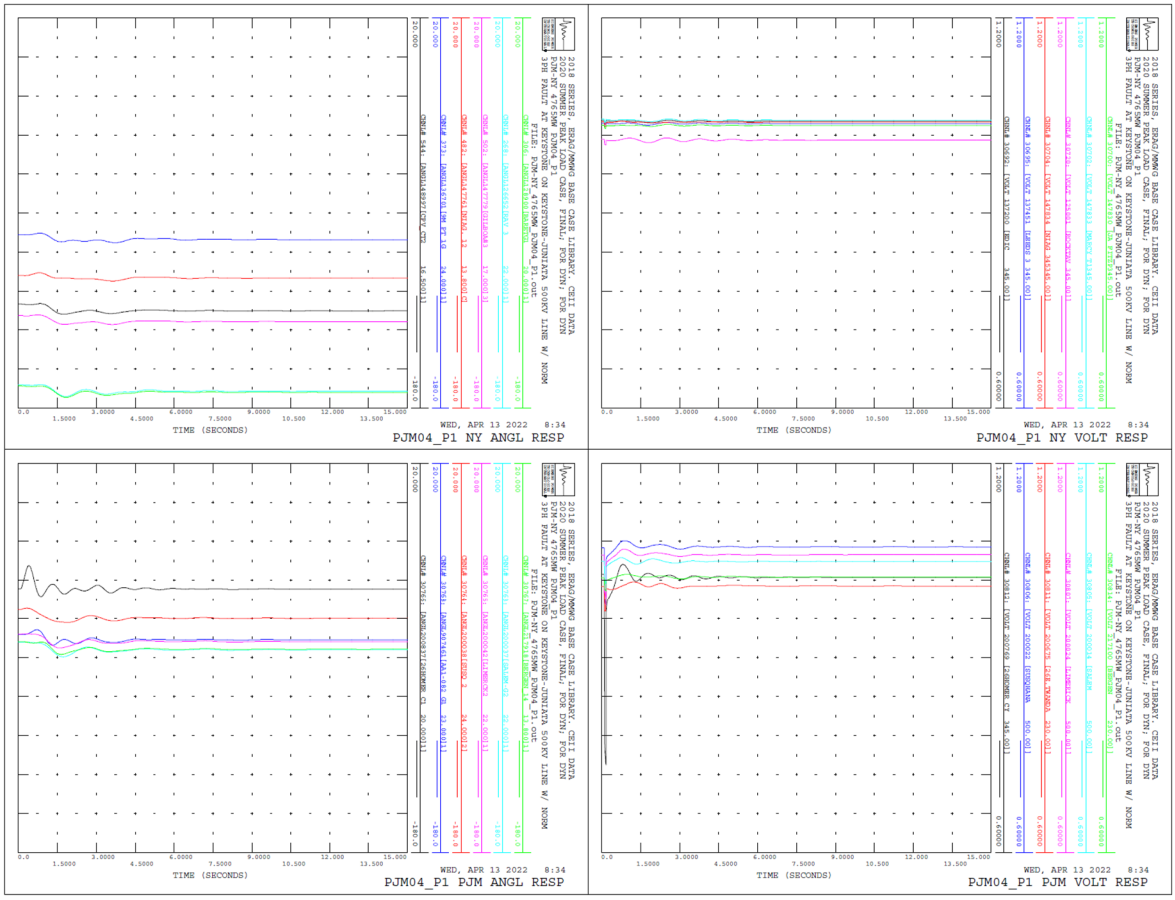


**Figure 194: PJM-NY 4765 MW Contingency PJM04_P1 Angle/Voltage Response Plots**

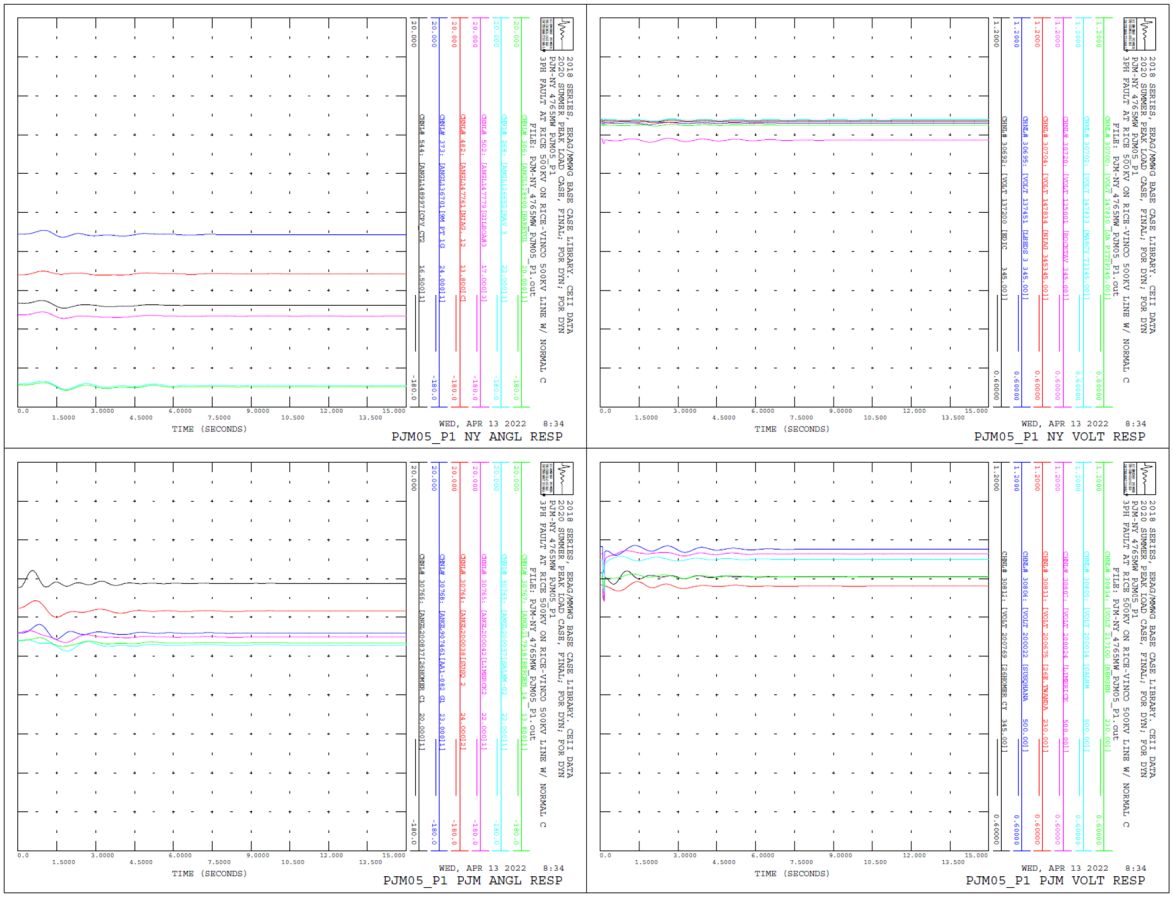


**Figure 195: PJM-NY 4765 MW Contingency PJM05_P1 Angle/Voltage Response Plots**

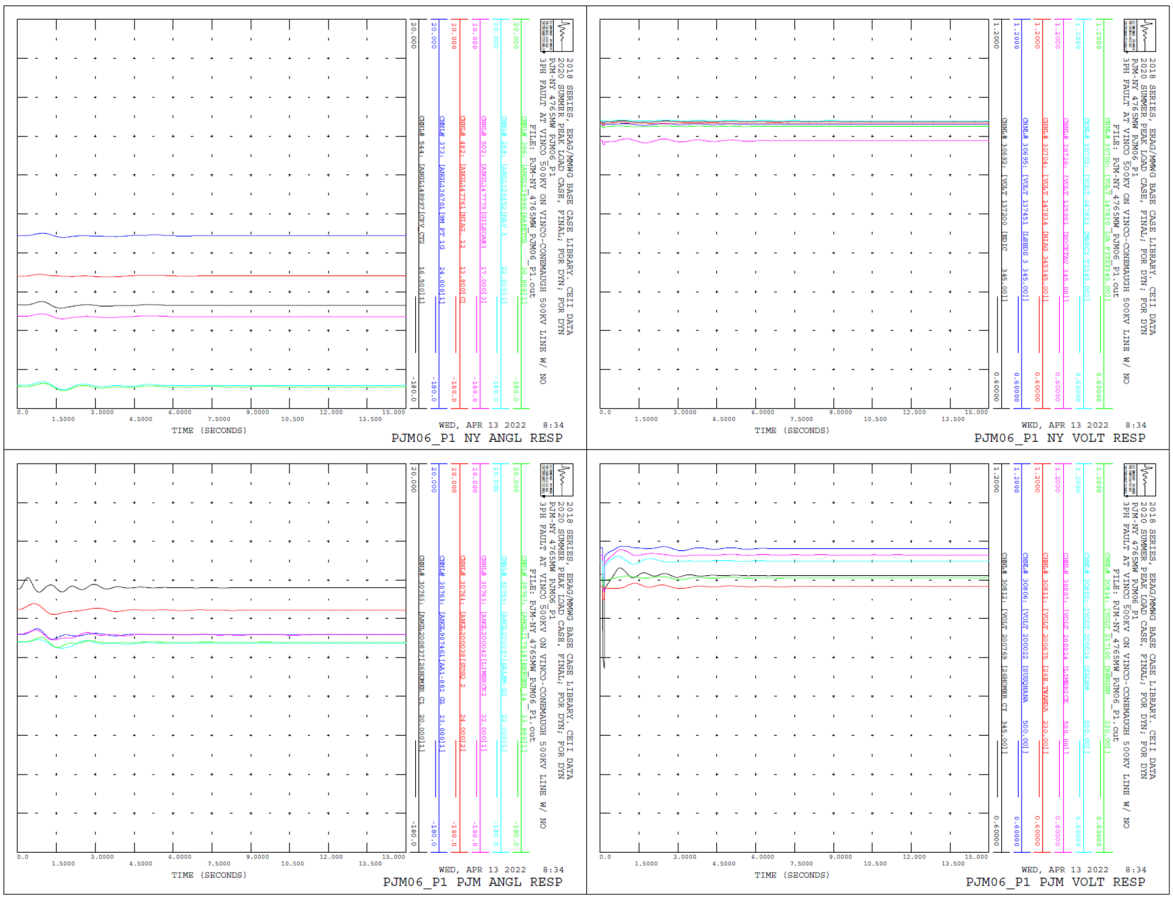


**Figure 196: PJM-NY 4765 MW Contingency PJM06_P1 Angle/Voltage Response Plots**

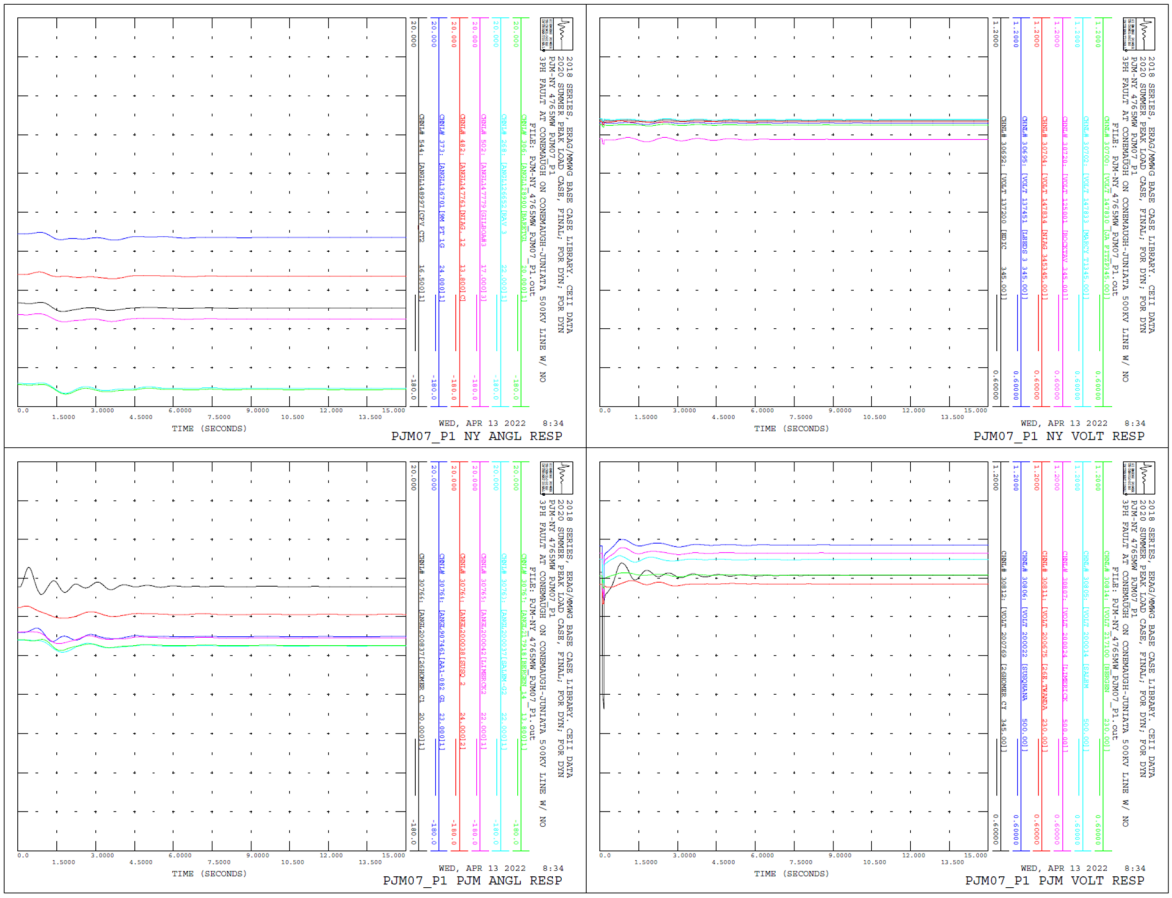


**Figure 197: PJM-NY 4765 MW Contingency PJM07_P1 Angle/Voltage Response Plots**

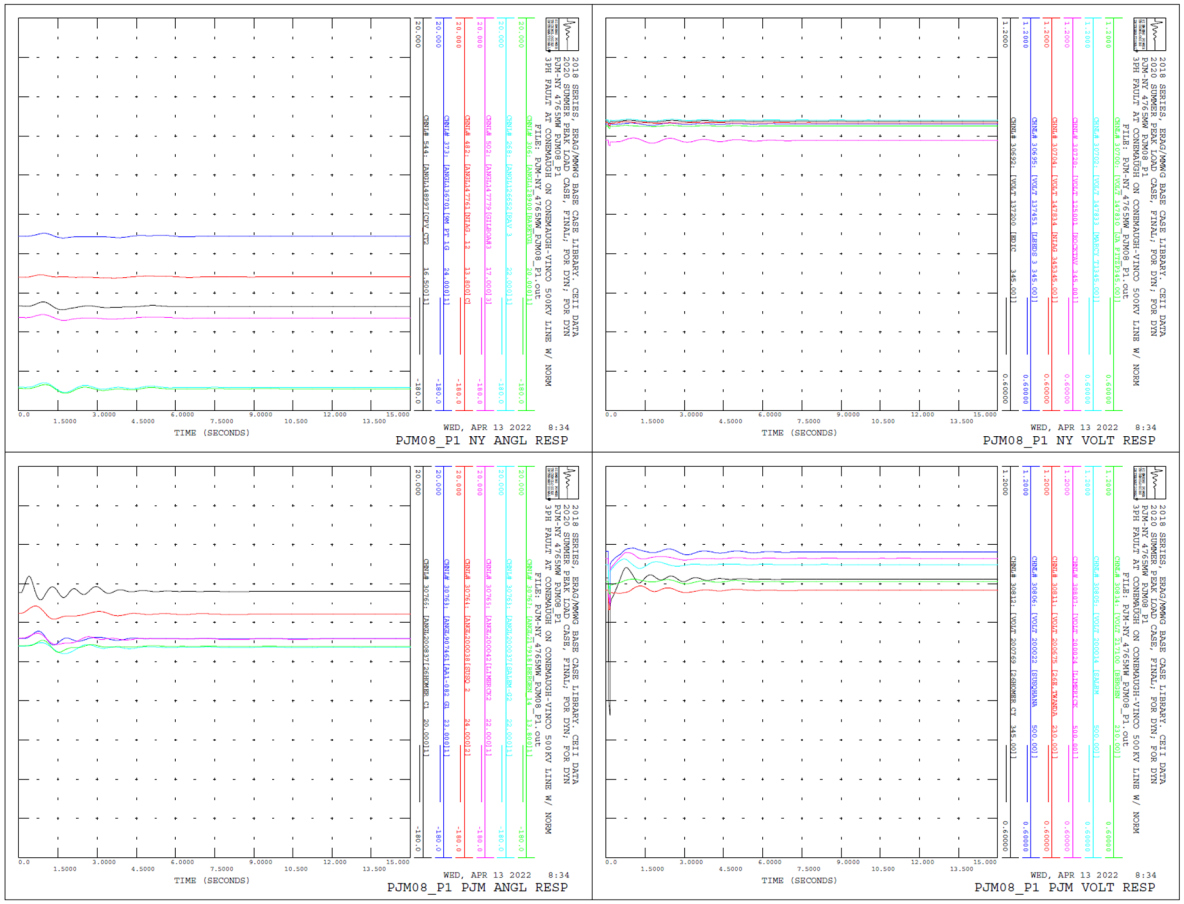


**Figure 198: PJM-NY 4765 MW Contingency PJM08_P1 Angle/Voltage Response Plots**

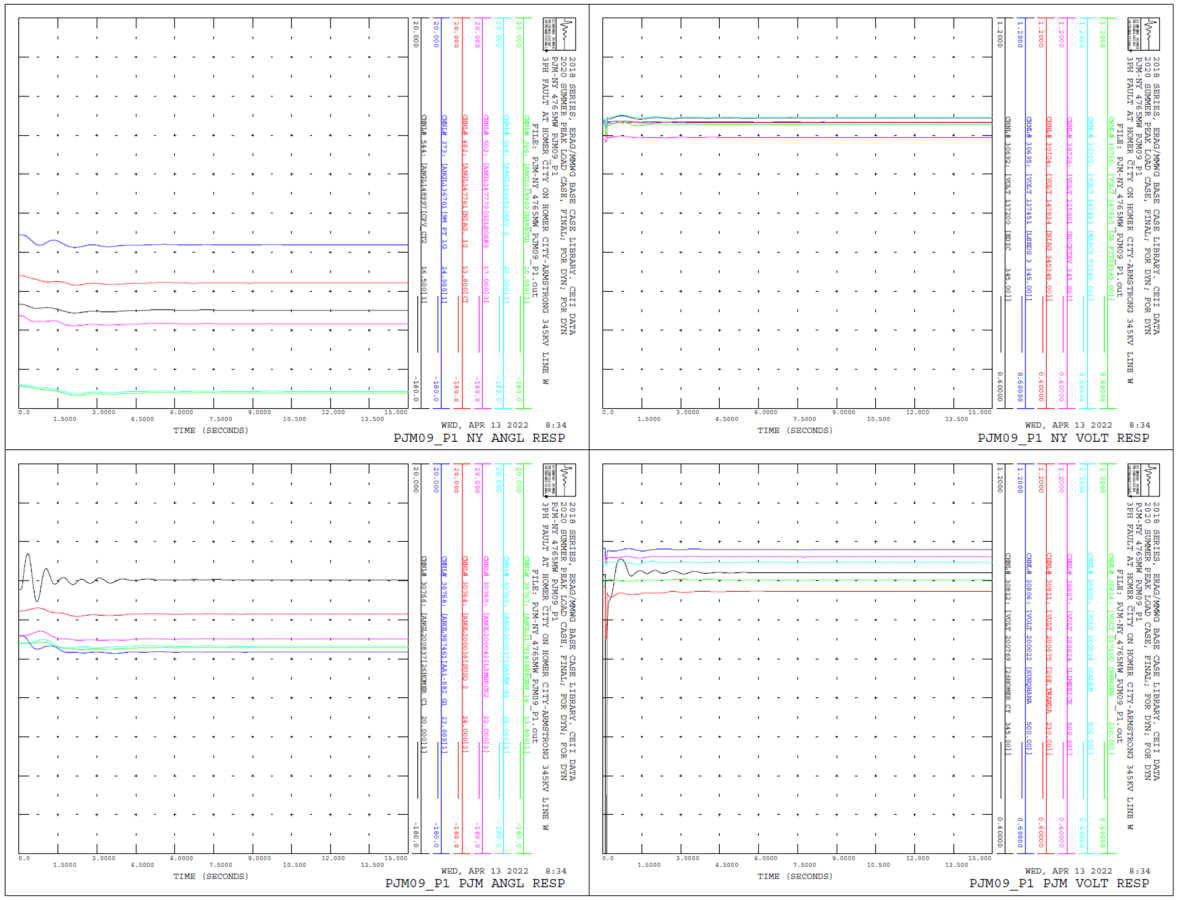


**Figure 199: PJM-NY 4765 MW Contingency PJM09_P1 Angle/Voltage Response Plots**

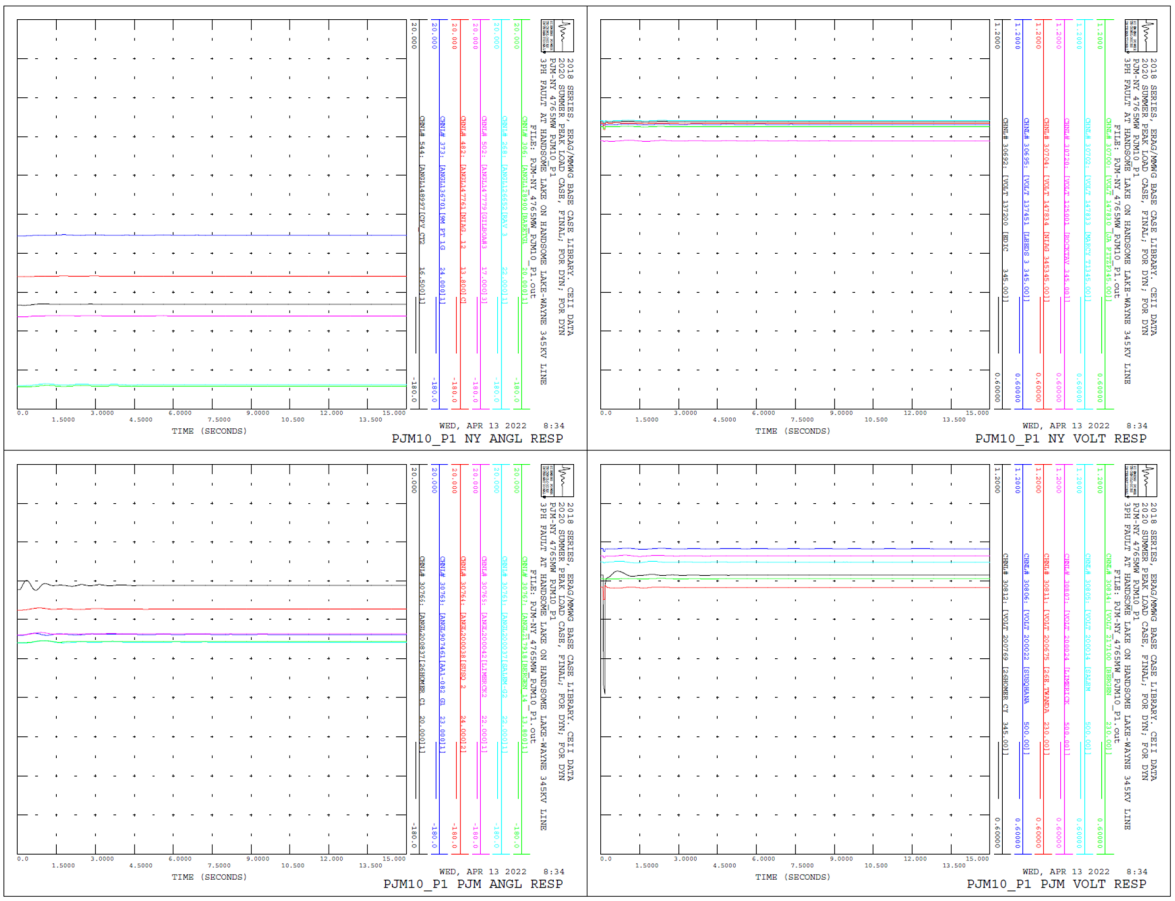


**Figure 200: PJM-NY 4765 MW Contingency PJM10_P1 Angle/Voltage Response Plots**

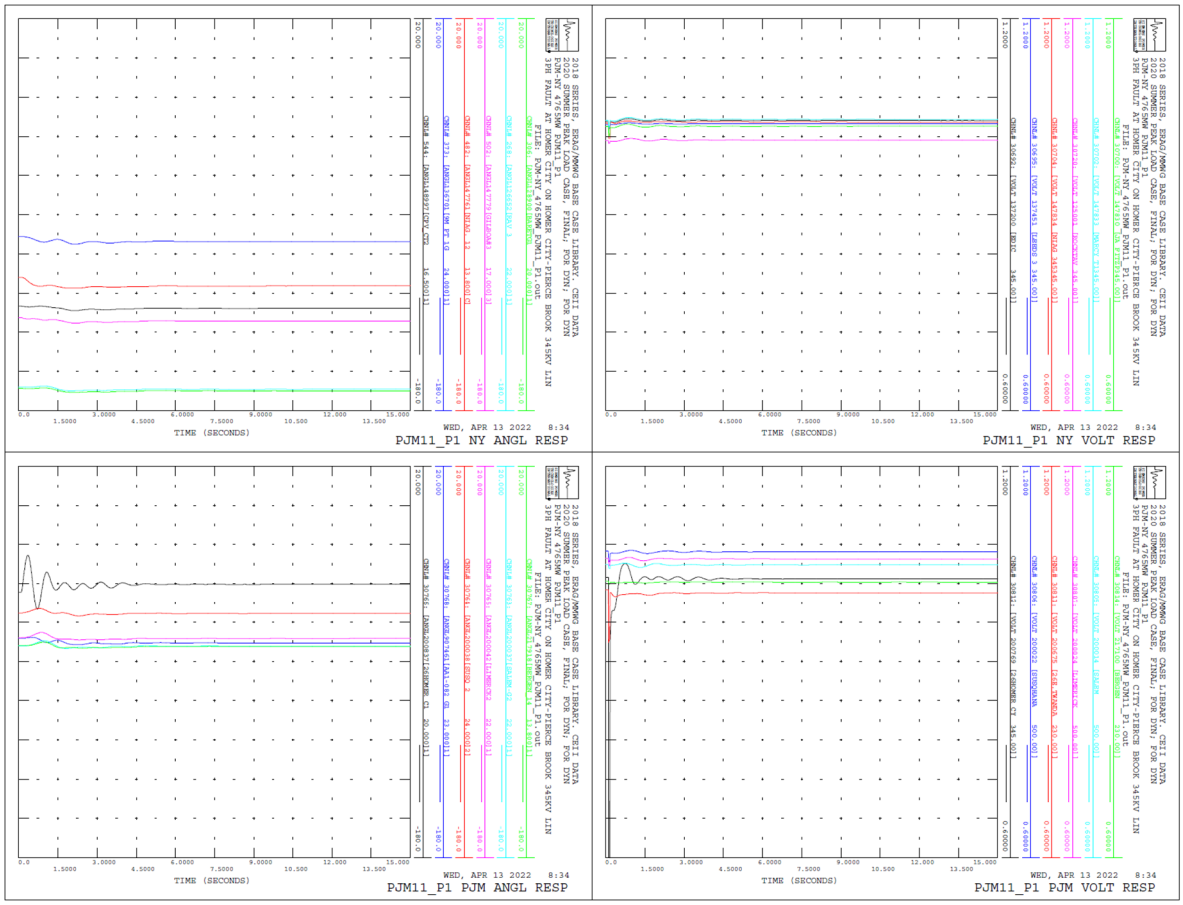


**Figure 201: PJM-NY 4765 MW Contingency PJM11_P1 Angle/Voltage Response Plots**

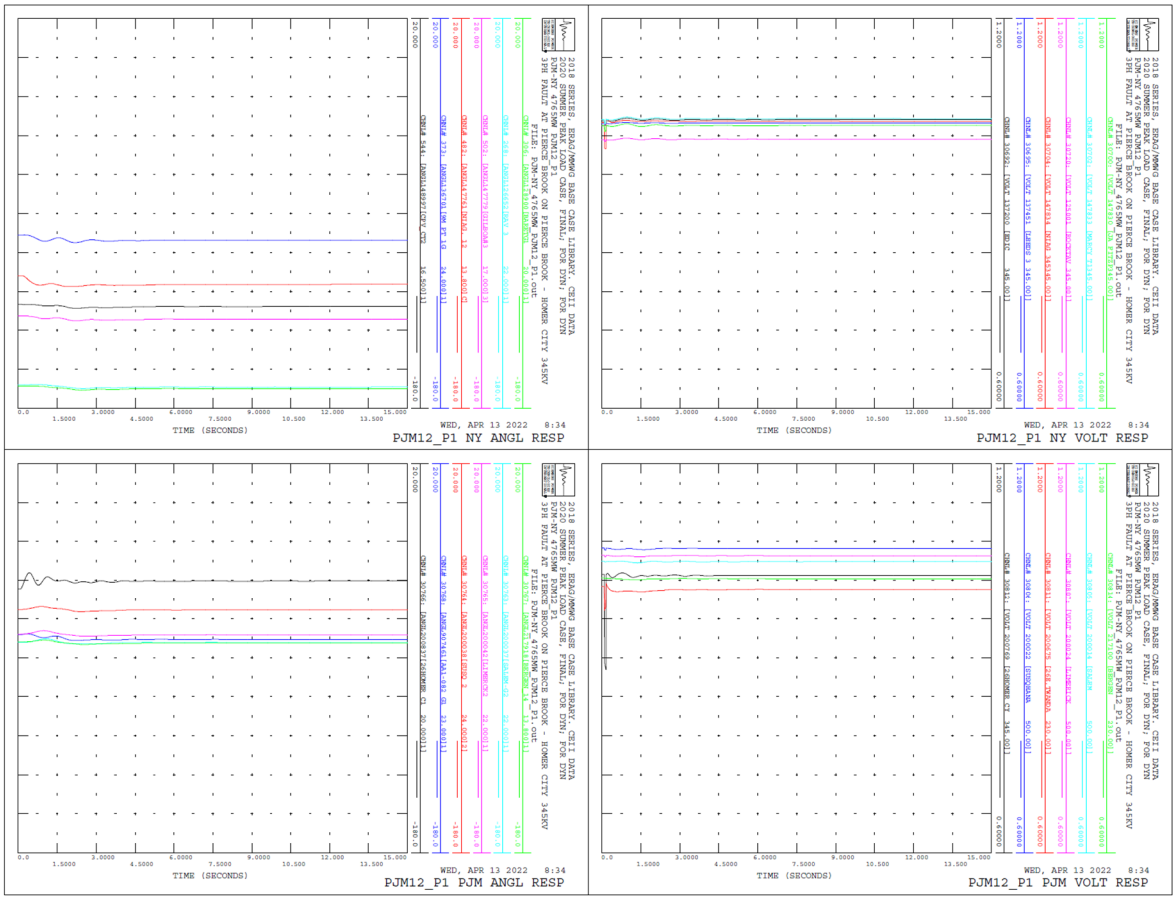


**Figure 202: PJM-NY 4765 MW Contingency PJM12_P1 Angle/Voltage Response Plots**

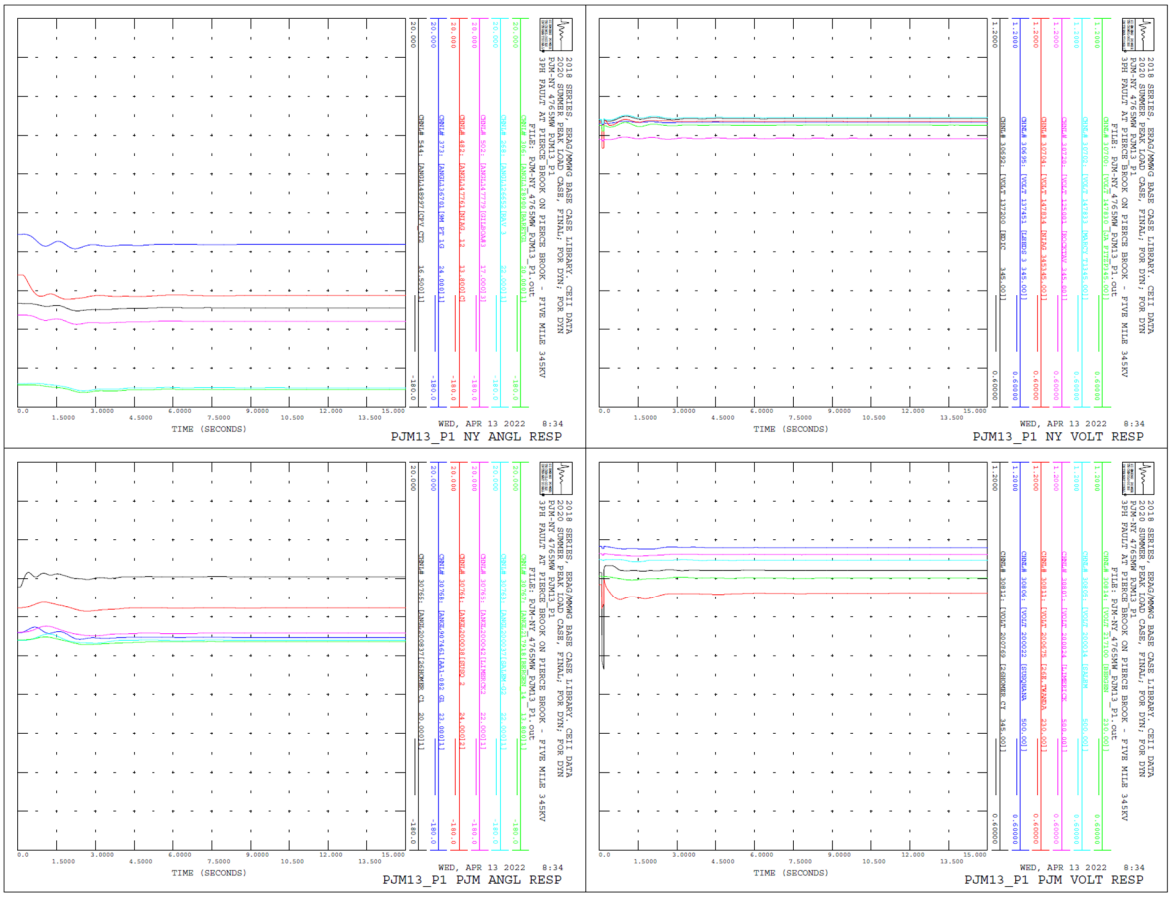


**Figure 203: PJM-NY 4765 MW Contingency PJM13_P1 Angle/Voltage Response Plots**

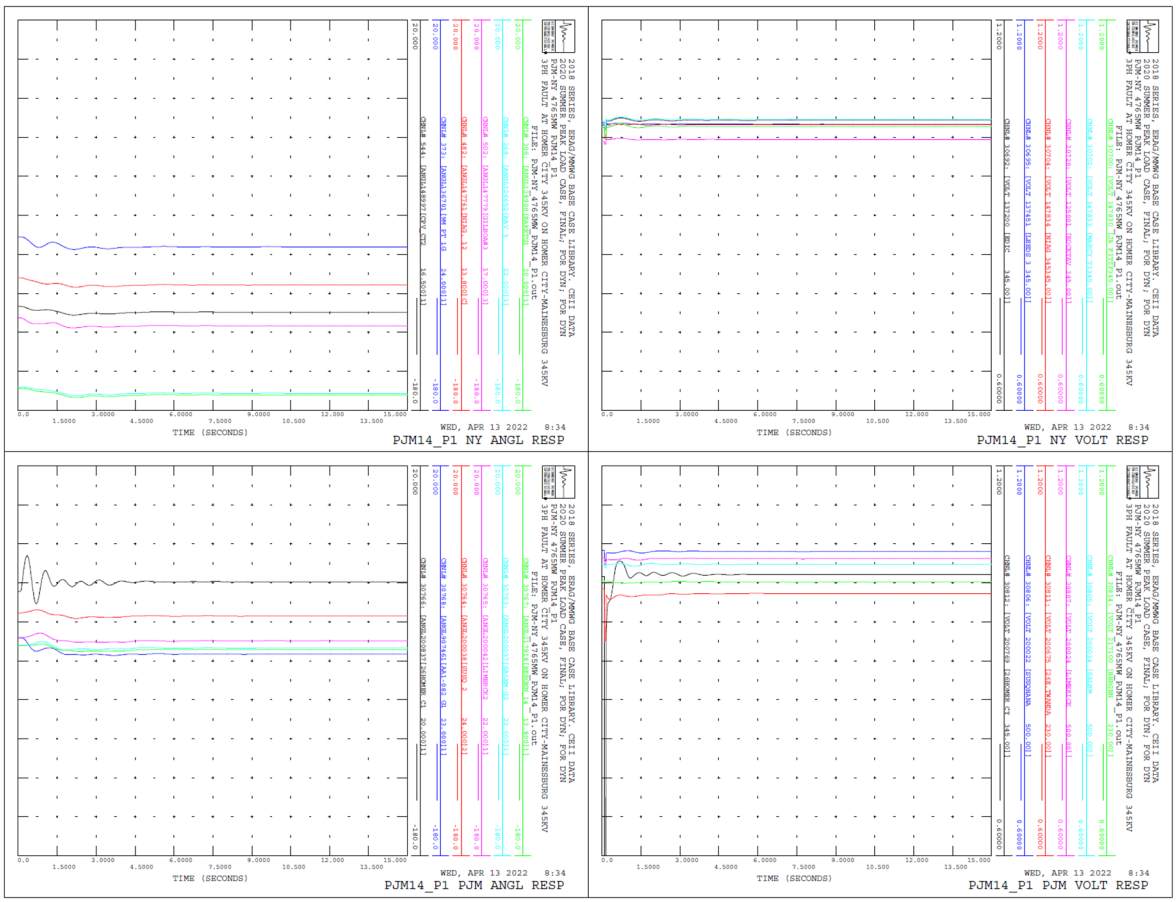


**Figure 204: PJM-NY 4765 MW Contingency PJM14_P1 Angle/Voltage Response Plots**

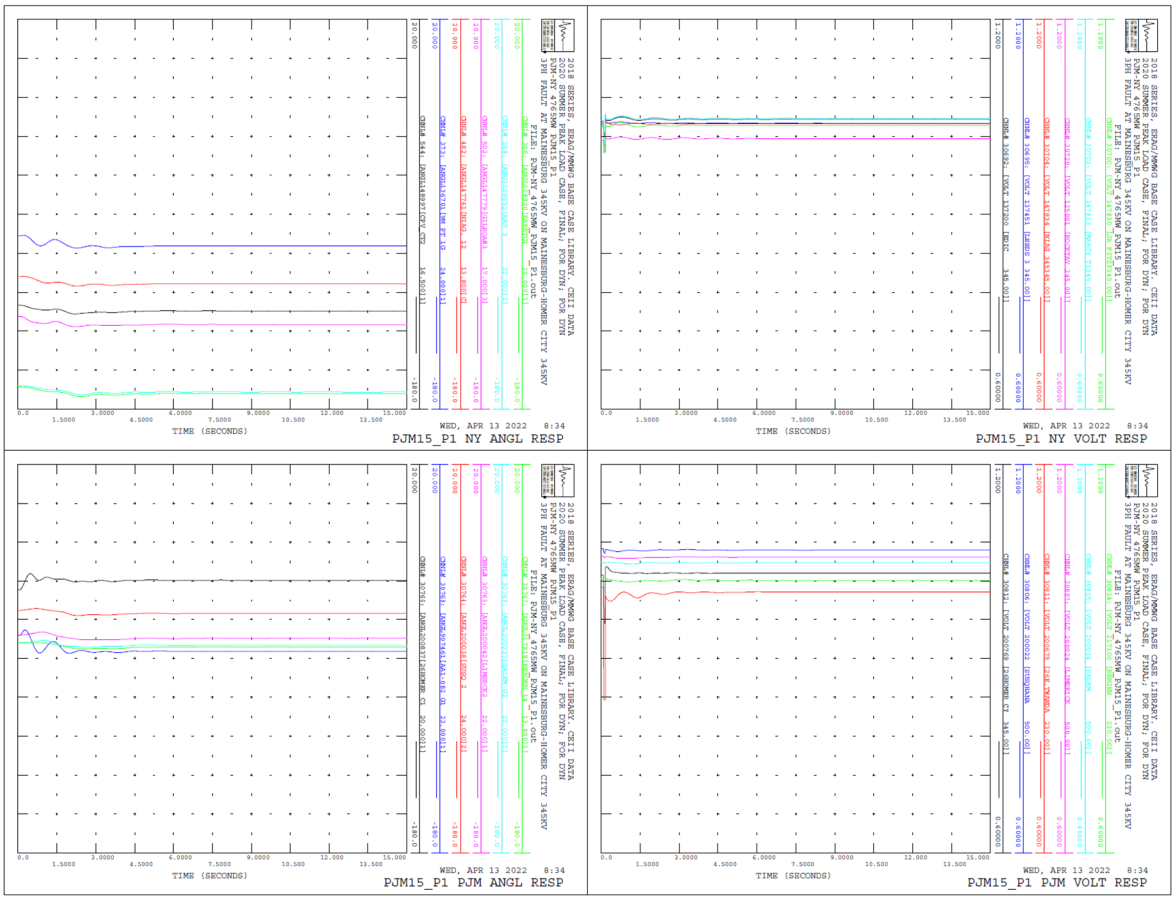


**Figure 205: PJM-NY 4765 MW Contingency PJM15_P1 Angle/Voltage Response Plots**

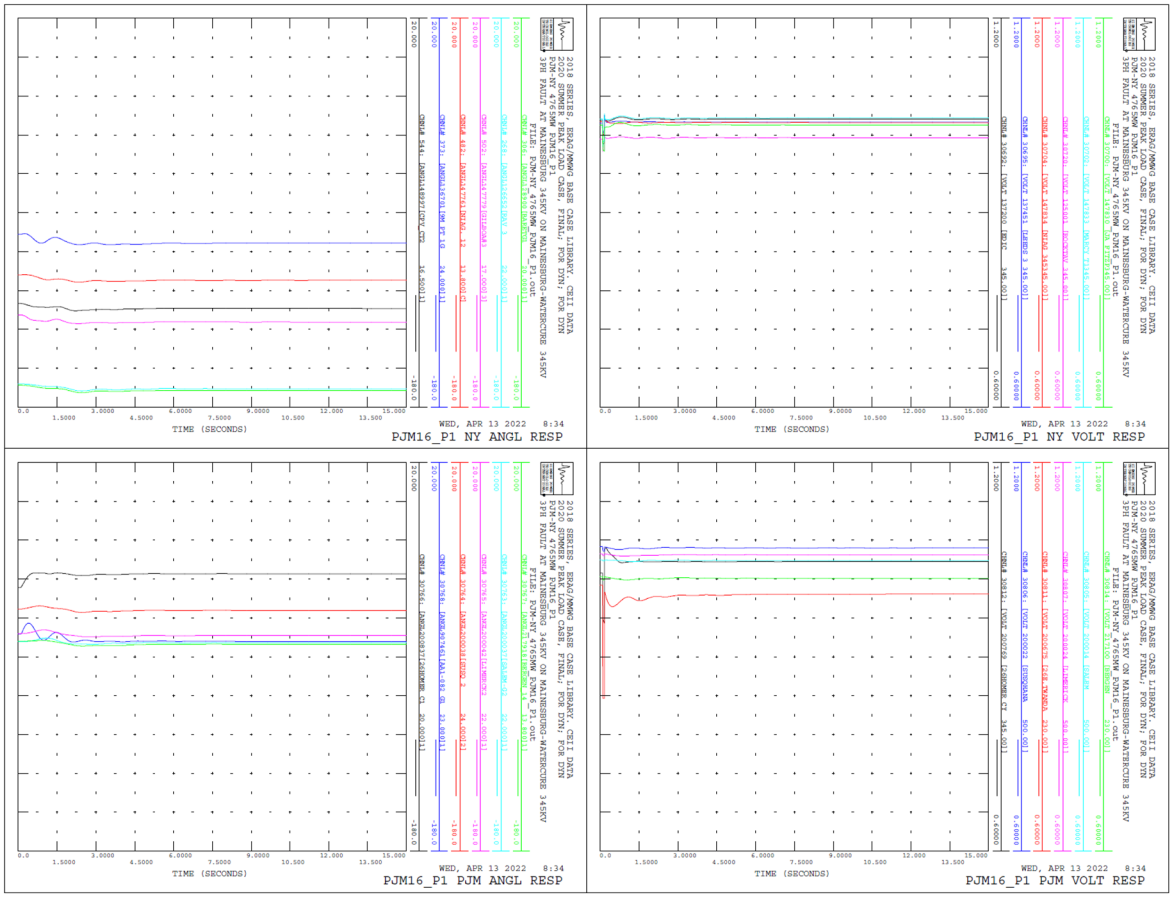


**Figure 206: PJM-NY 4765 MW Contingency PJM16_P1 Angle/Voltage Response Plots**

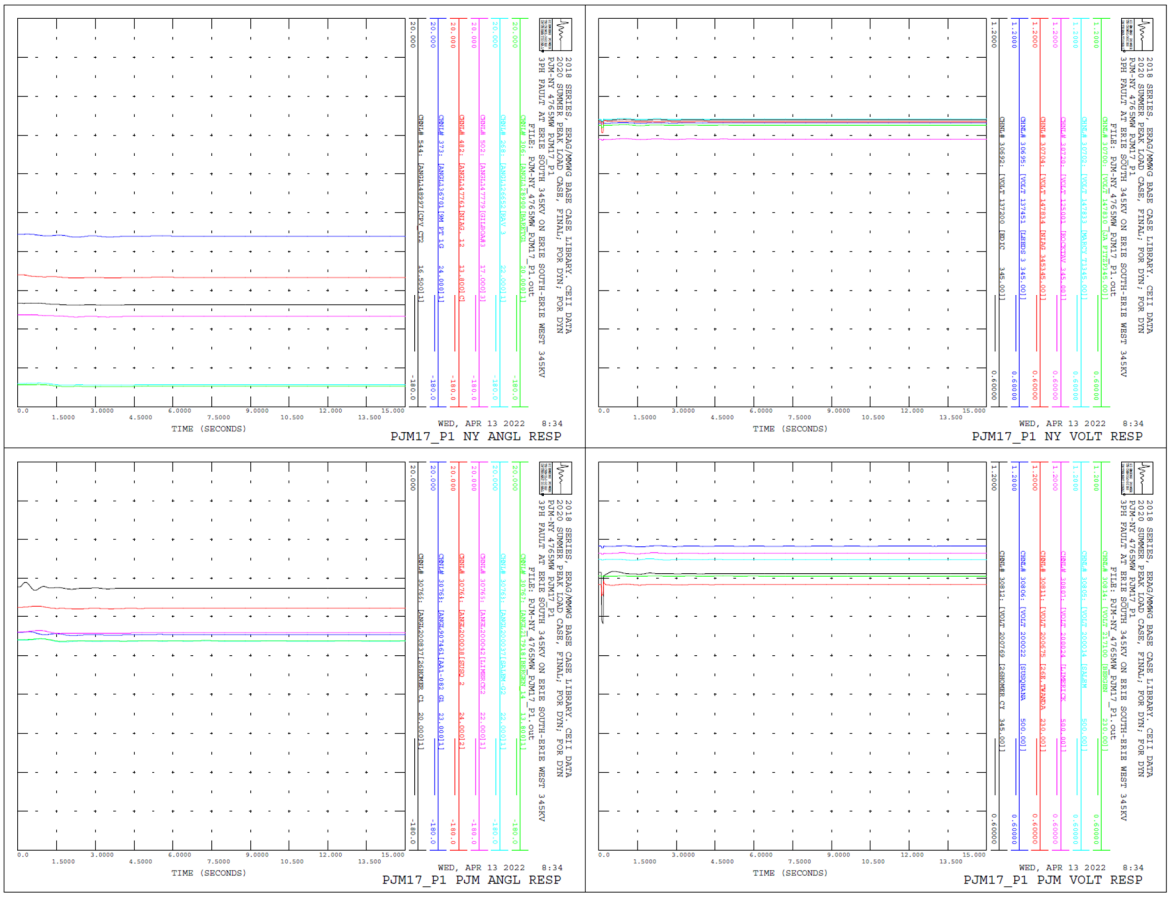


**Figure 207: PJM-NY 4765 MW Contingency PJM17_P1 Angle/Voltage Response Plots**

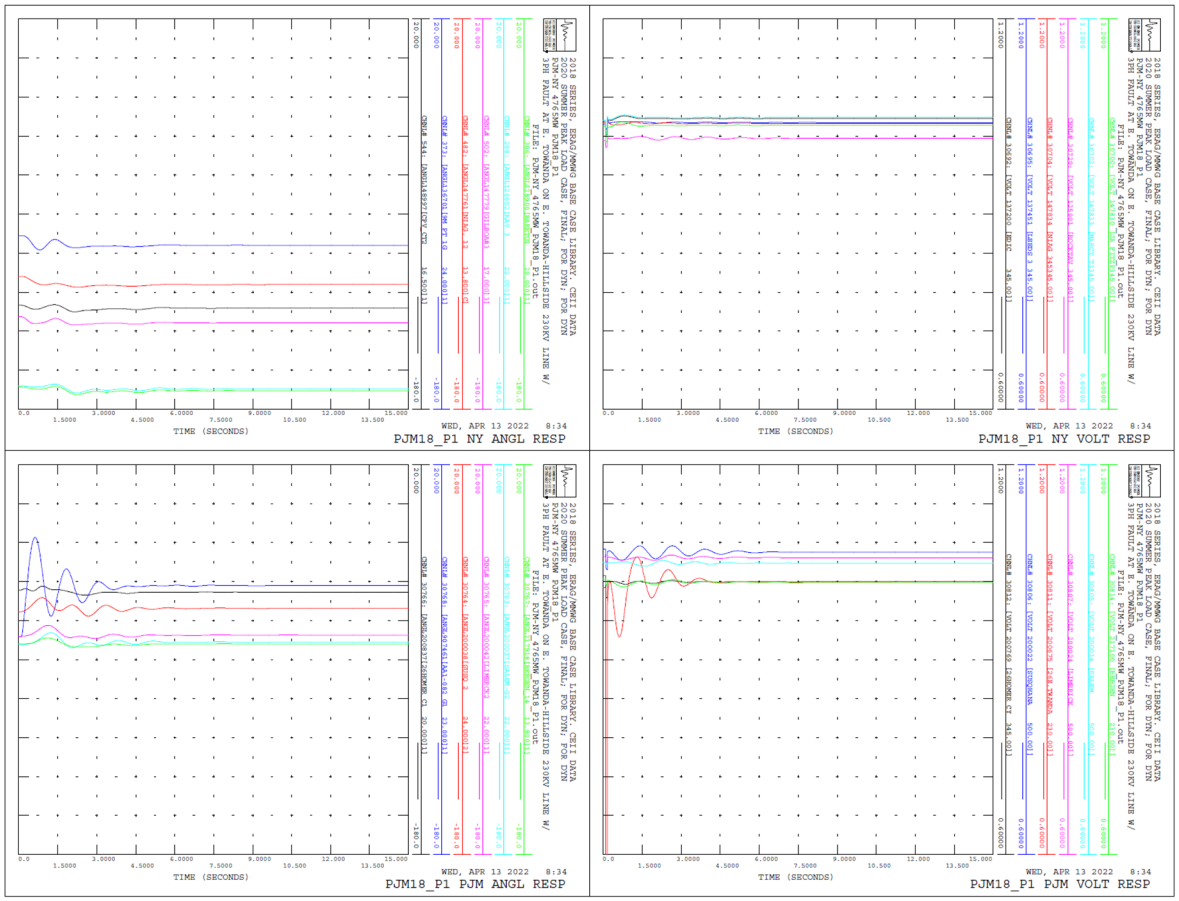


**Figure 208: PJM-NY 4765 MW Contingency PJM18_P1 Angle/Voltage Response Plots**

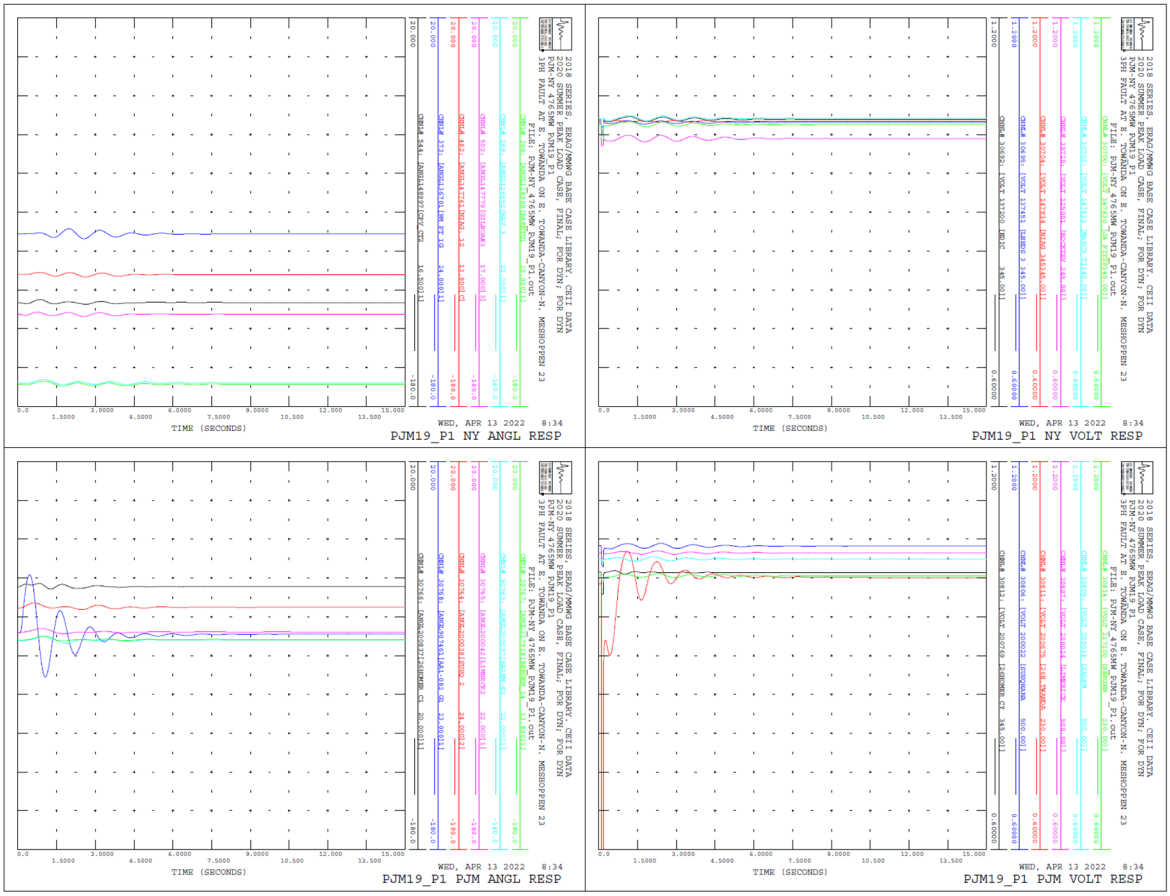


**Figure 209: PJM-NY 4765 MW Contingency PJM19_P1 Angle/Voltage Response Plots**

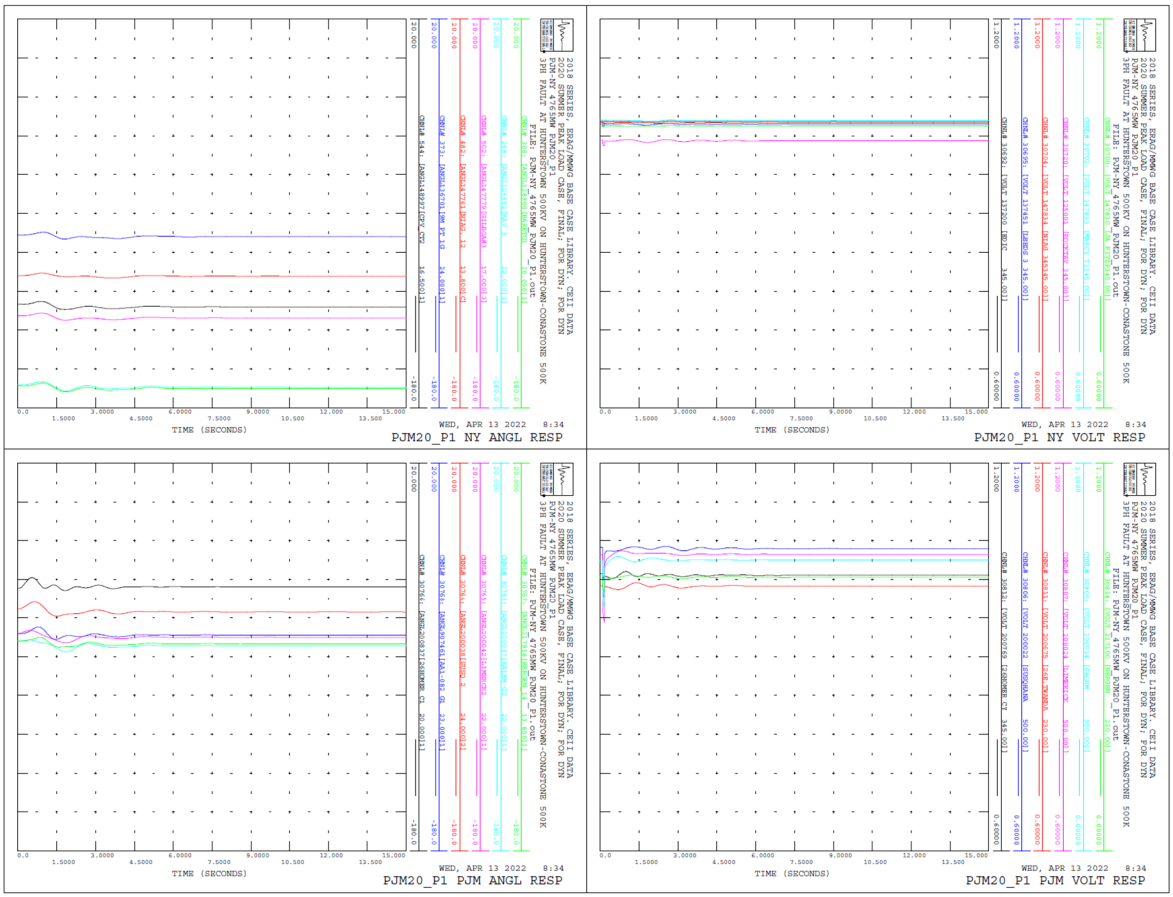


**Figure 210: PJM-NY 4765 MW Contingency PJM20_P1 Angle/Voltage Response Plots**

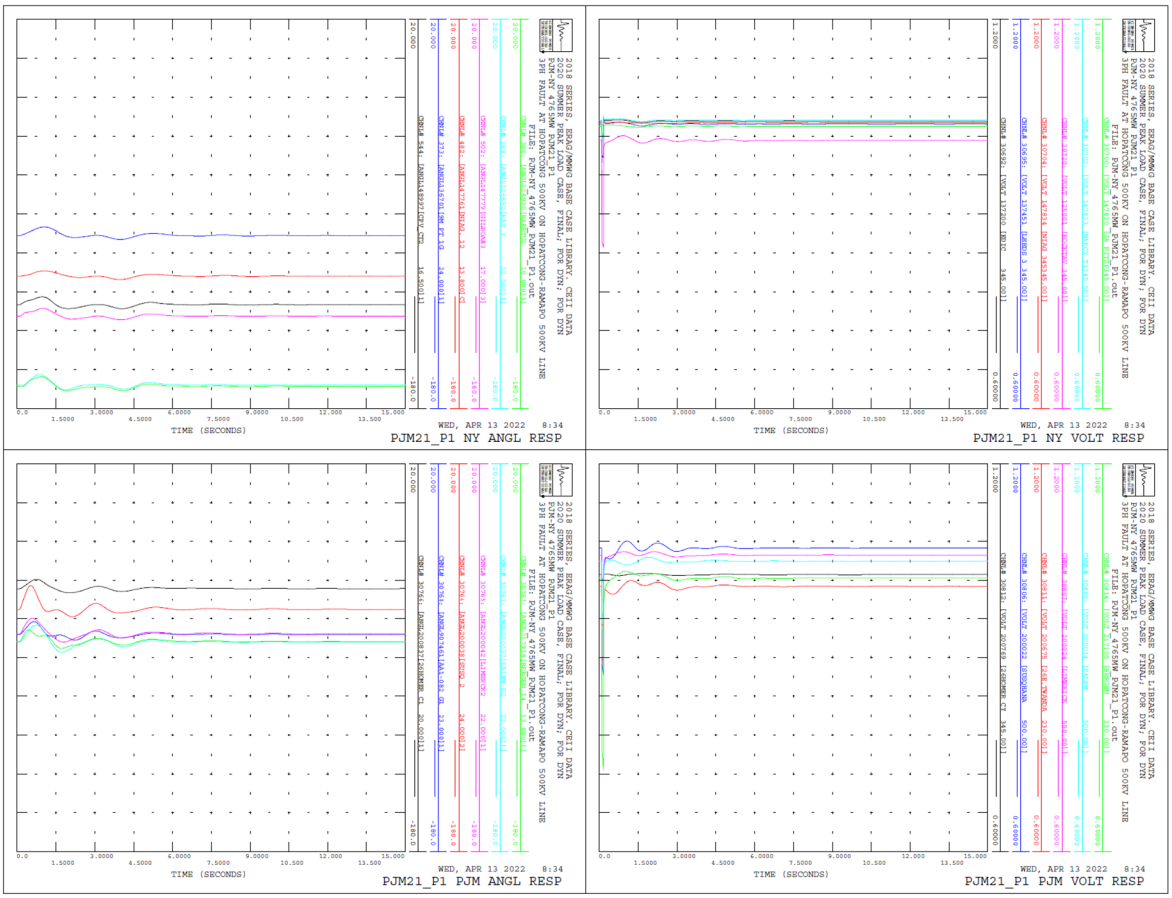


**Figure 211: PJM-NY 4765 MW Contingency PJM21_P1 Angle/Voltage Response Plots**

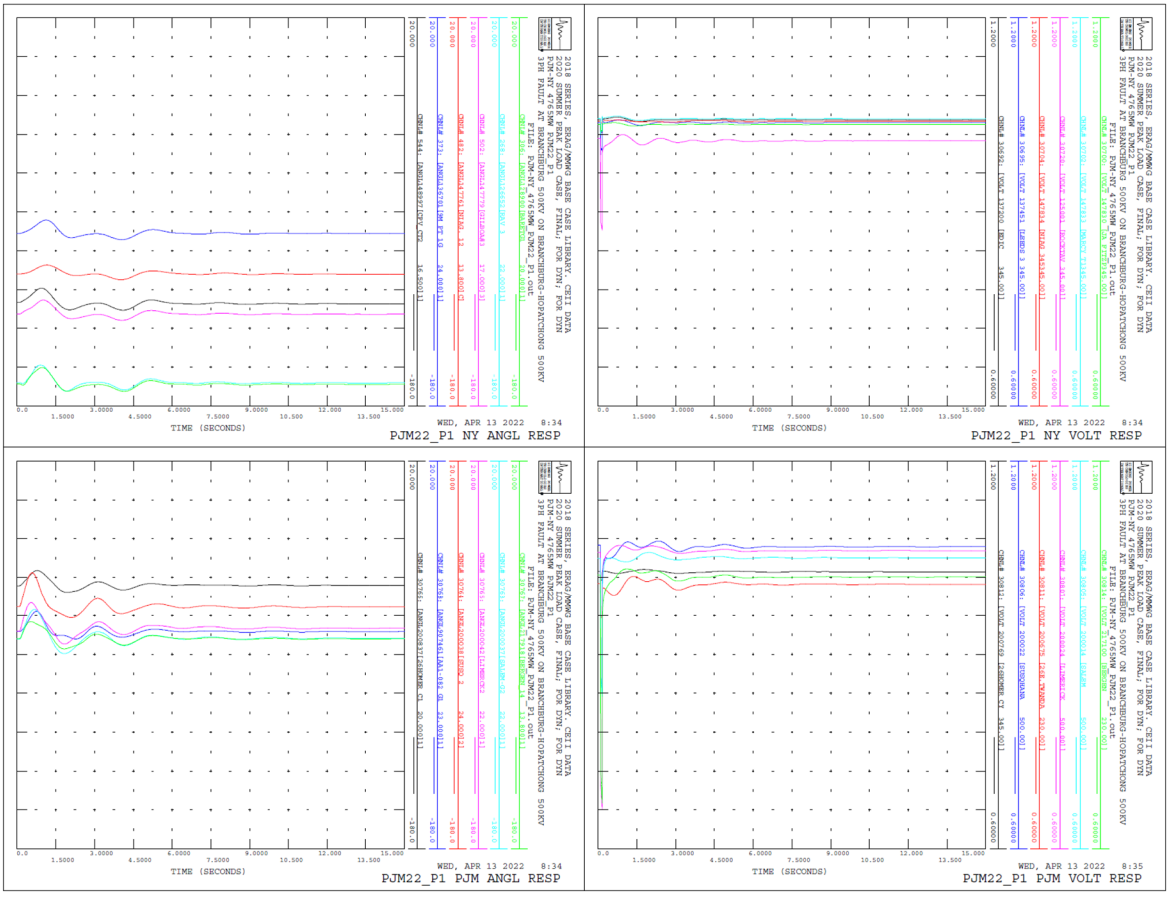


**Figure 212: PJM-NY 4765 MW Contingency PJM22_P1 Angle/Voltage Response Plots**

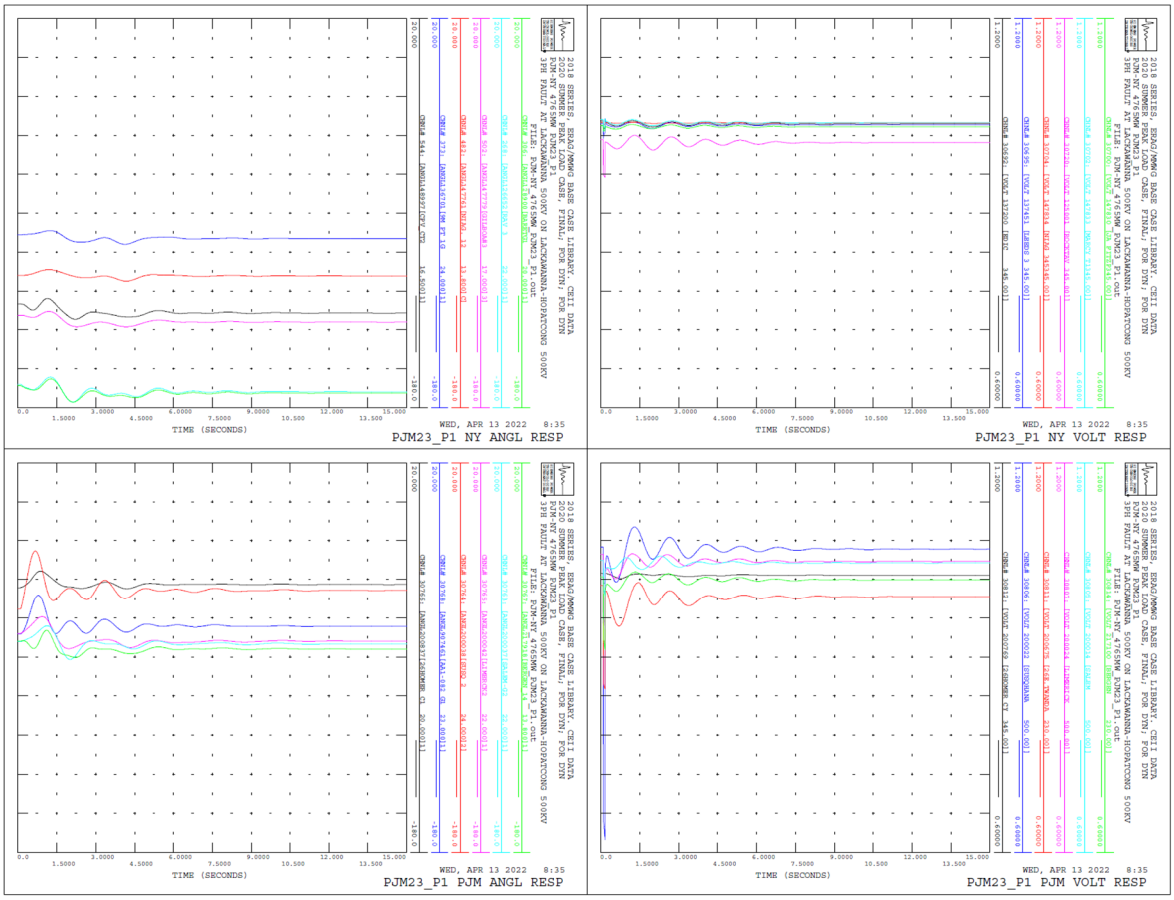


**Figure 213: PJM-NY 4765 MW Contingency PJM23_P1 Angle/Voltage Response Plots**

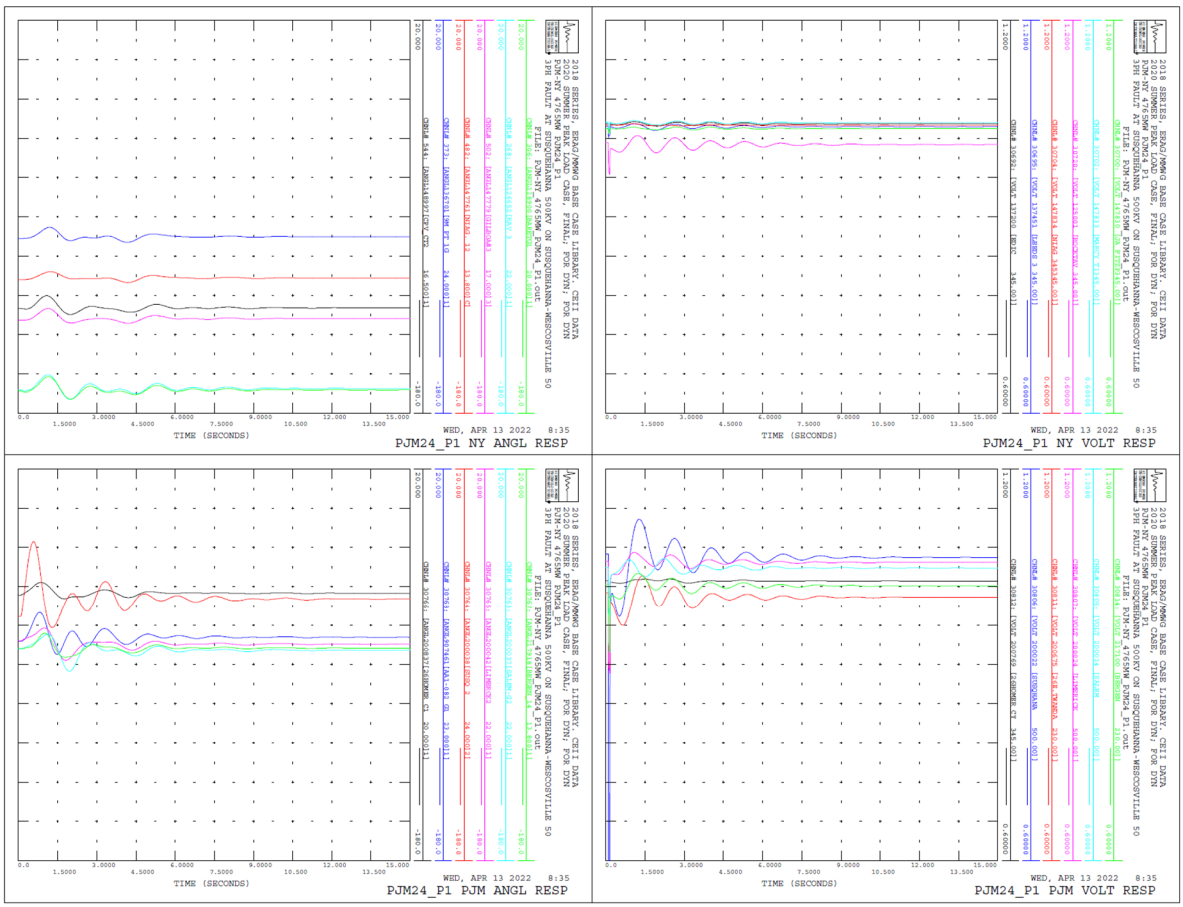


**Figure 214: PJM-NY 4765 MW Contingency PJM24_P1 Angle/Voltage Response Plots**

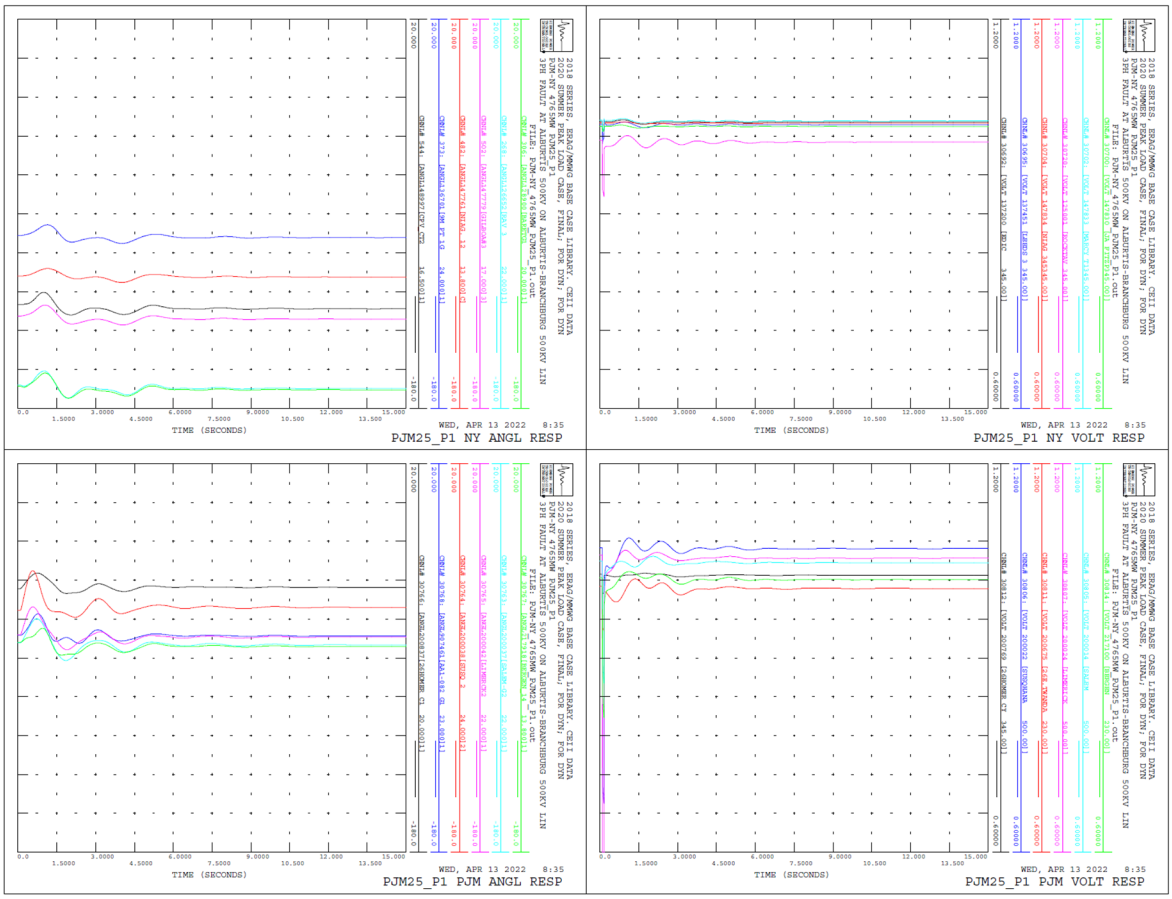


**Figure 215: PJM-NY 4765 MW Contingency PJM25_P1 Angle/Voltage Response Plots**

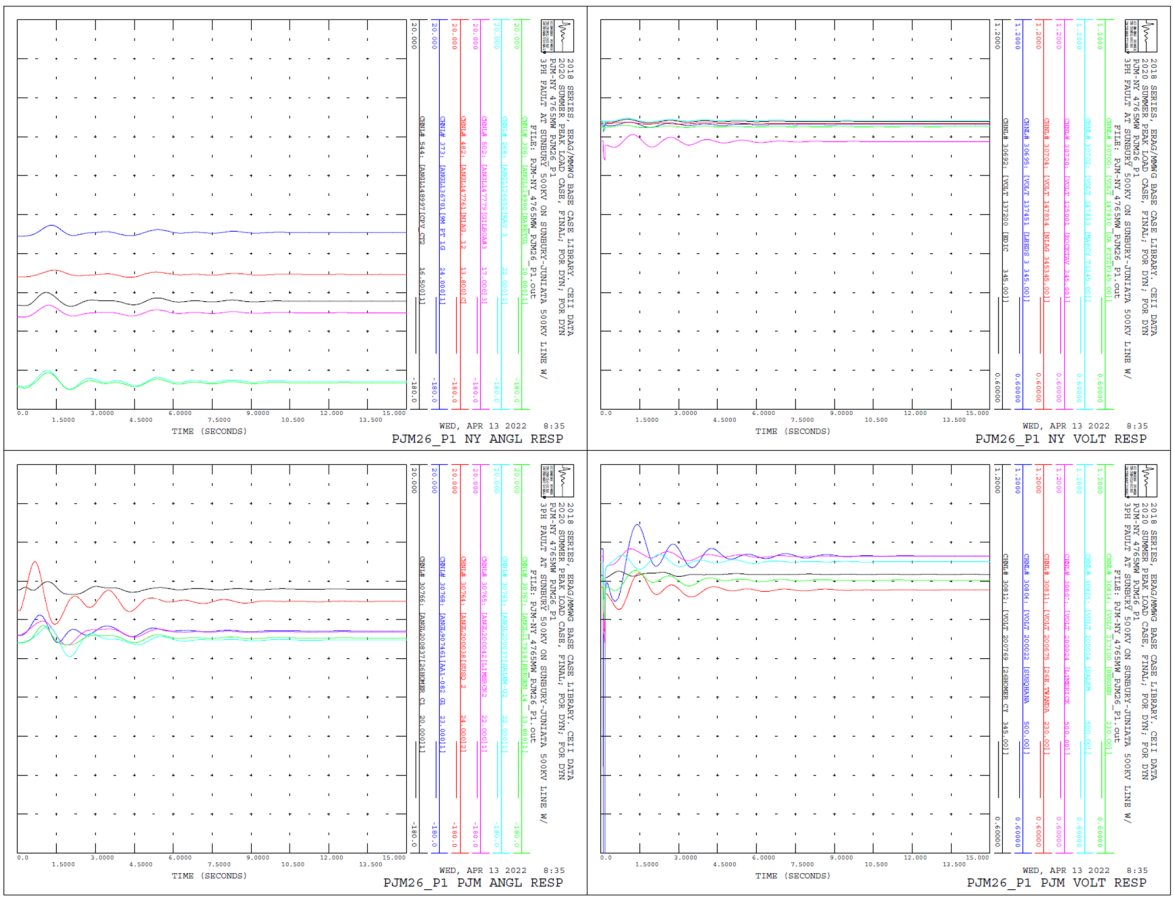


**Figure 216: PJM-NY 4765 MW Contingency PJM26_P1 Angle/Voltage Response Plots**

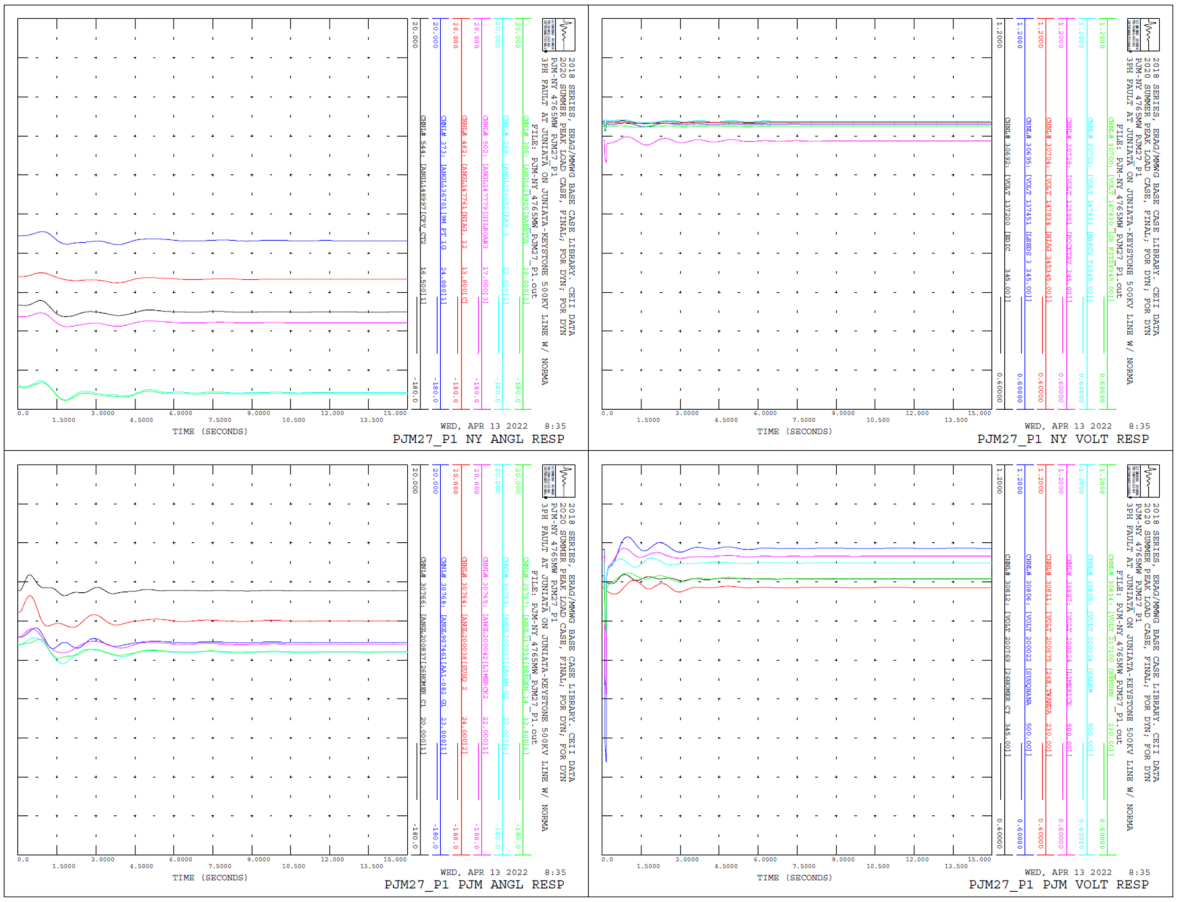


**Figure 217: PJM-NY 4765 MW Contingency PJM27_P1 Angle/Voltage Response Plots**

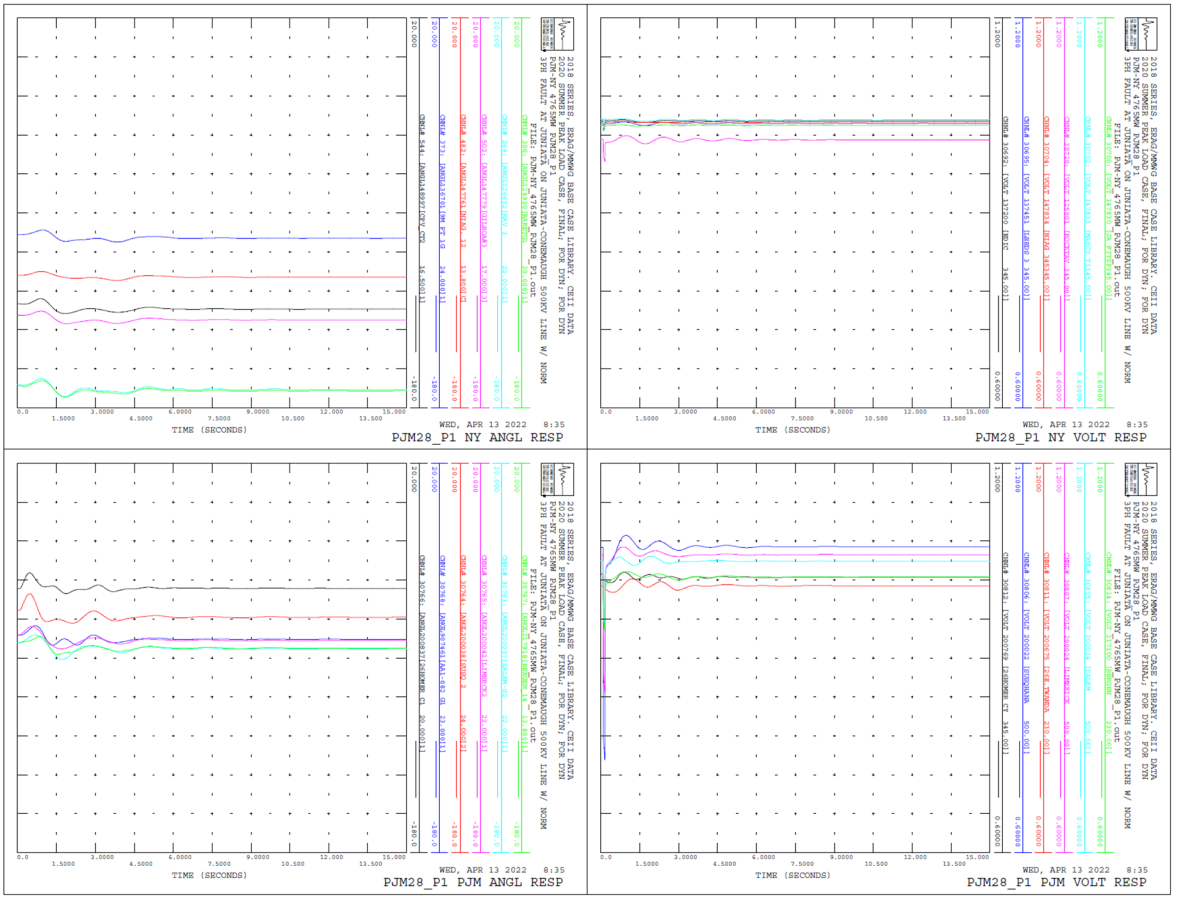


**Figure 218: PJM-NY 4765 MW Contingency PJM28_P1 Angle/Voltage Response Plots**

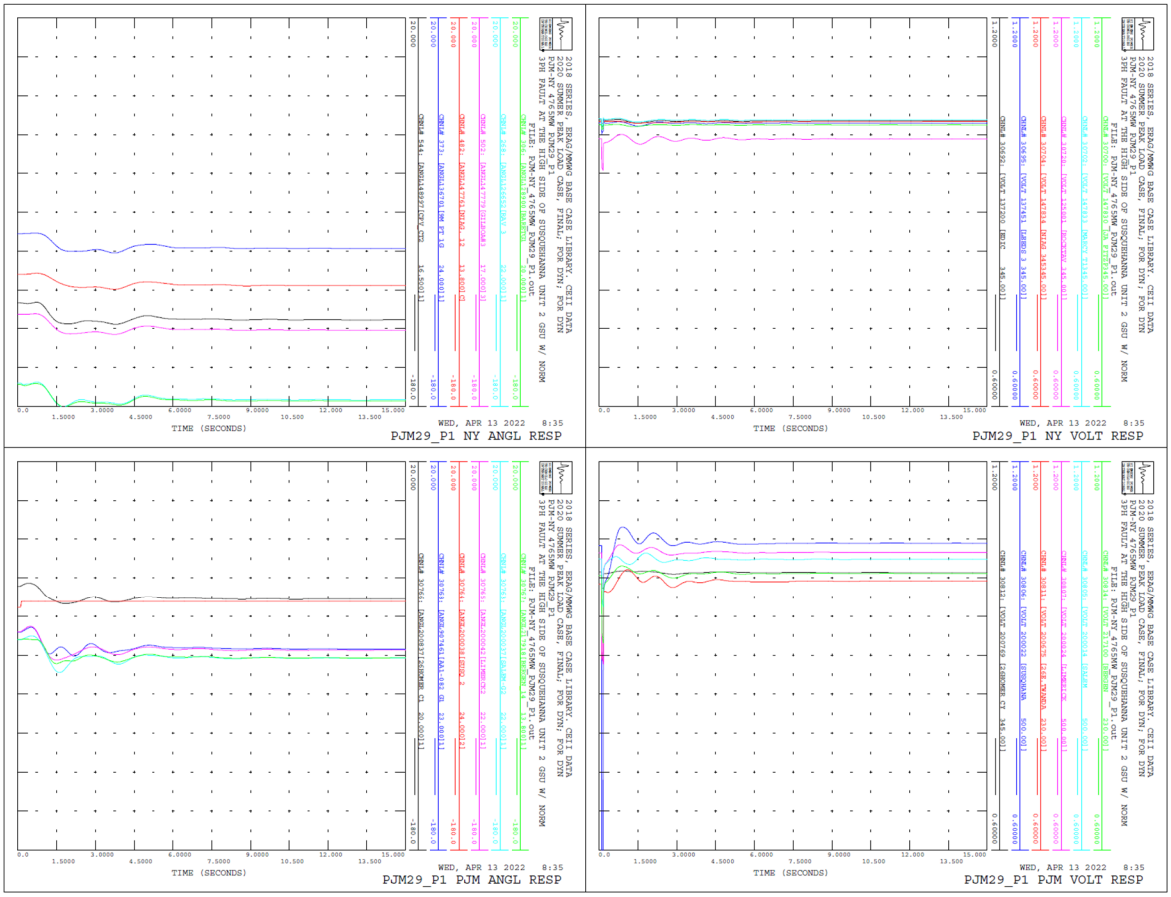


**Figure 219: PJM-NY 4765 MW Contingency PJM29_P1 Angle/Voltage Response Plots**

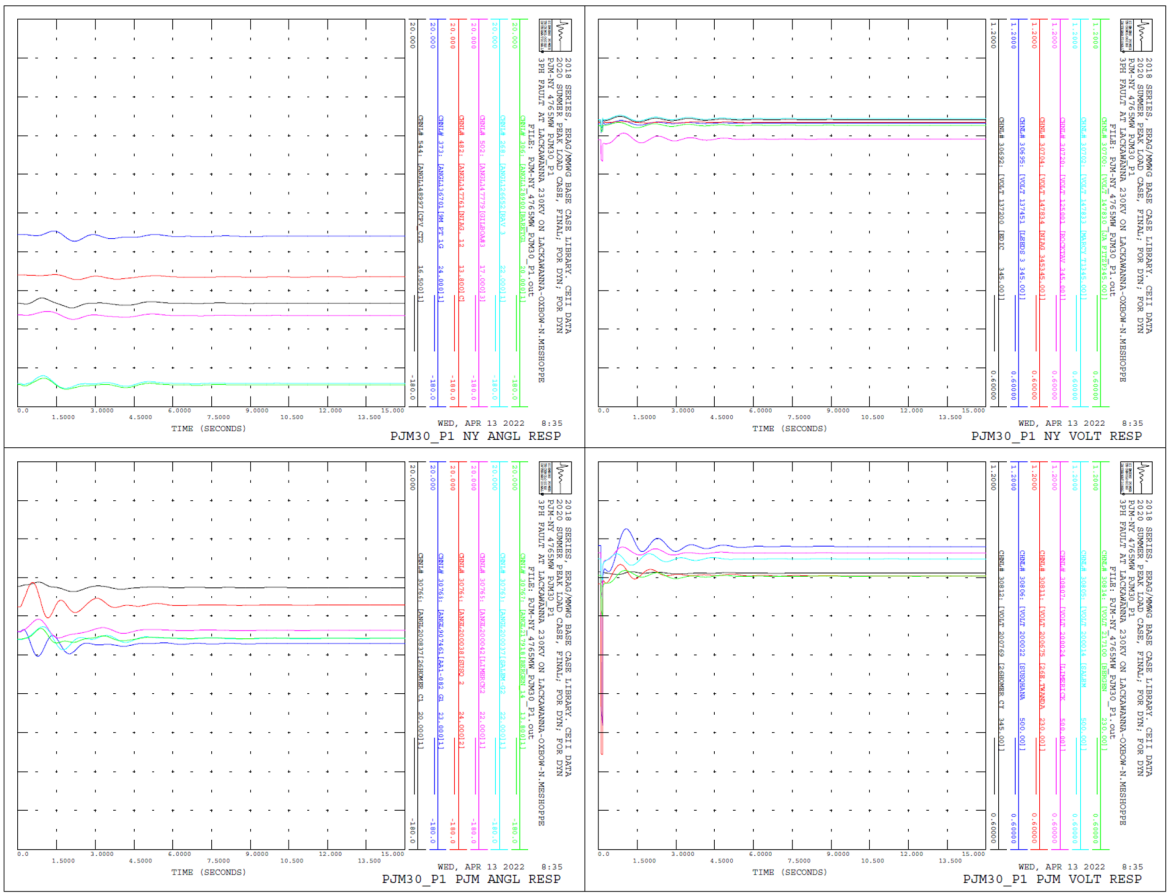


**Figure 220: PJM-NY 4765 MW Contingency PJM30_P1 Angle/Voltage Response Plots**

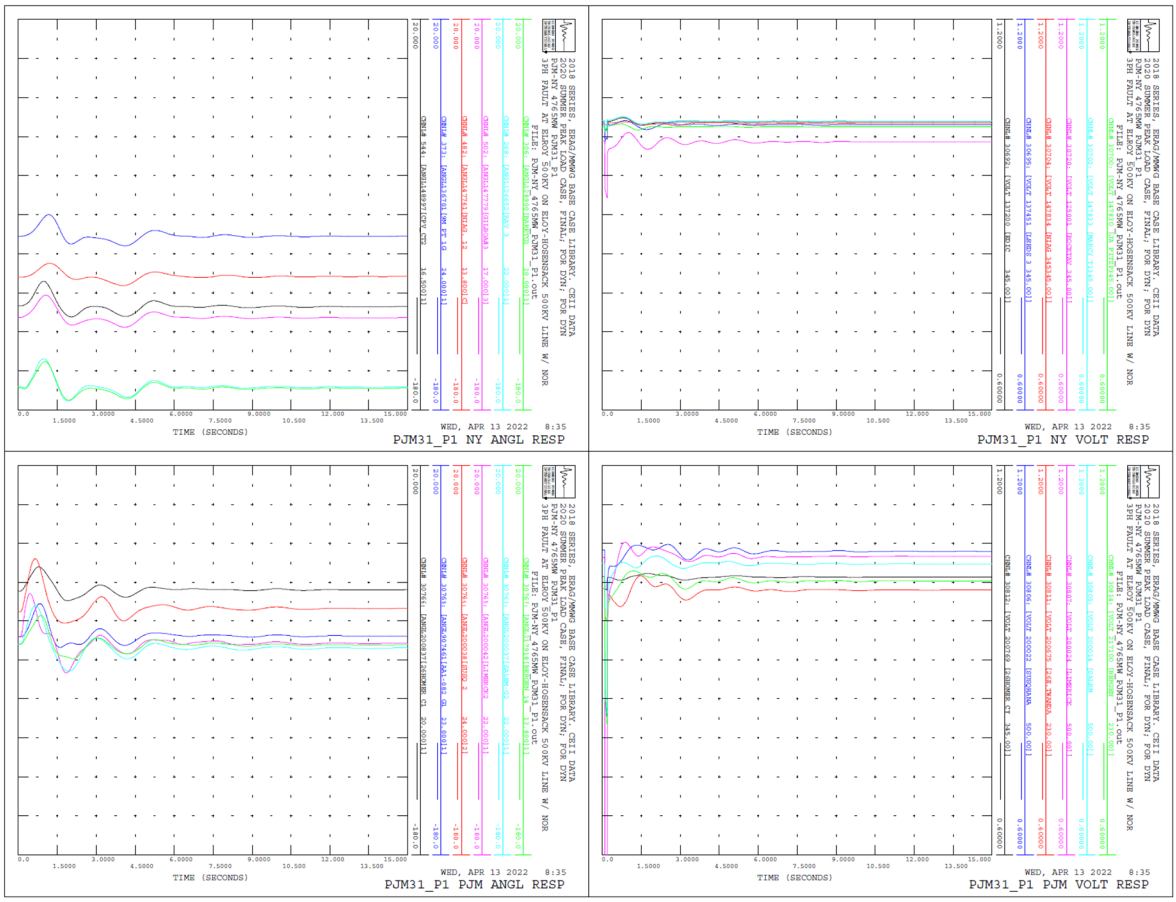


**Figure 221: PJM-NY 4765 MW Contingency PJM31_P1 Angle/Voltage Response Plots**

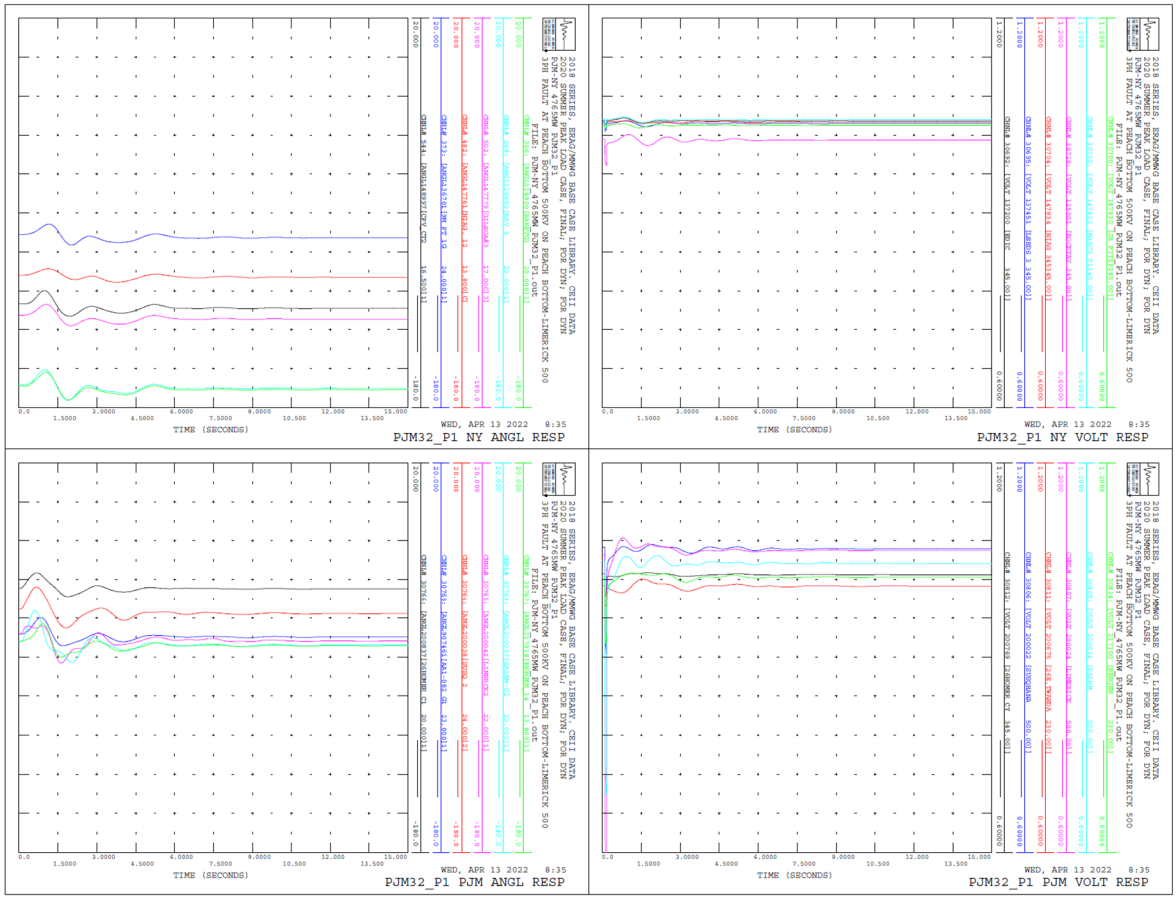


**Figure 222: PJM-NY 4765 MW Contingency PJM32_P1 Angle/Voltage Response Plots**

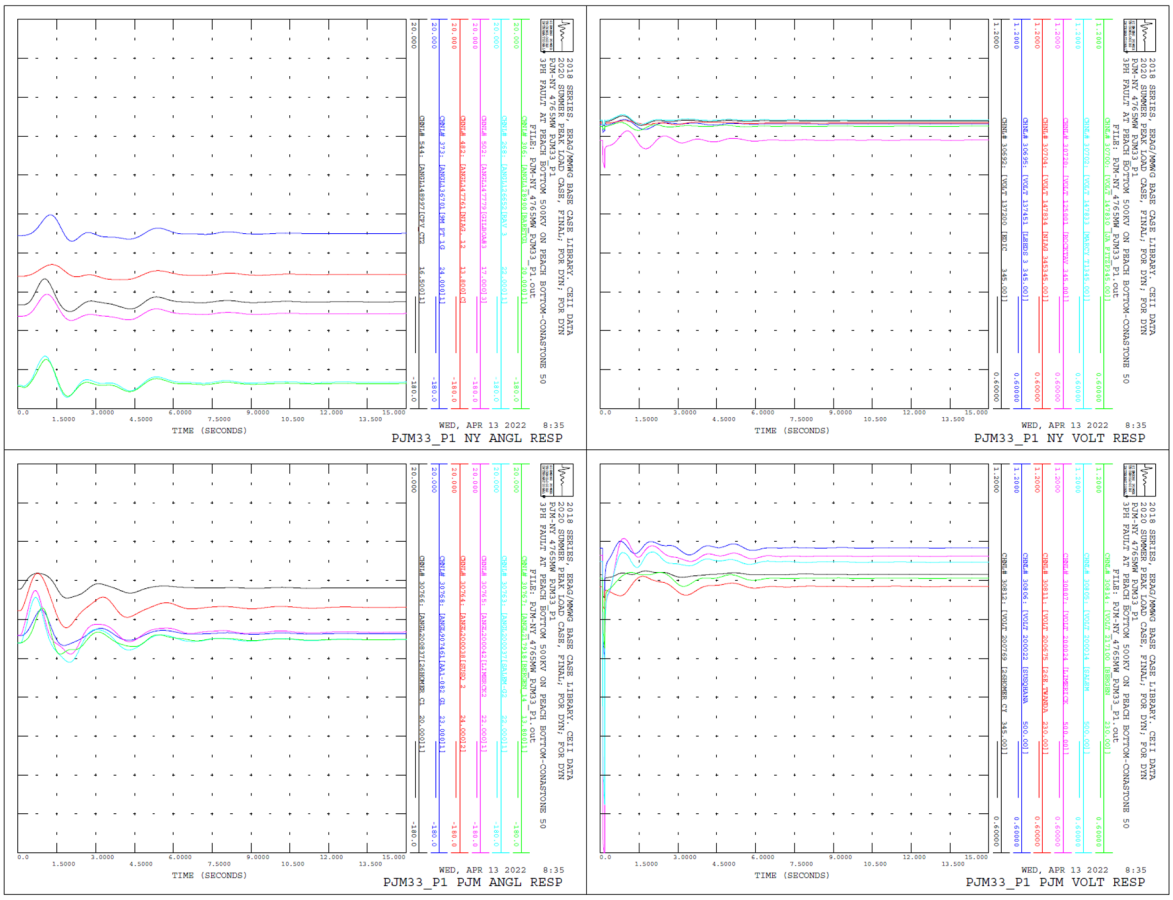


**Figure 223: PJM-NY 4765 MW Contingency PJM33_P1 Angle/Voltage Response Plots**

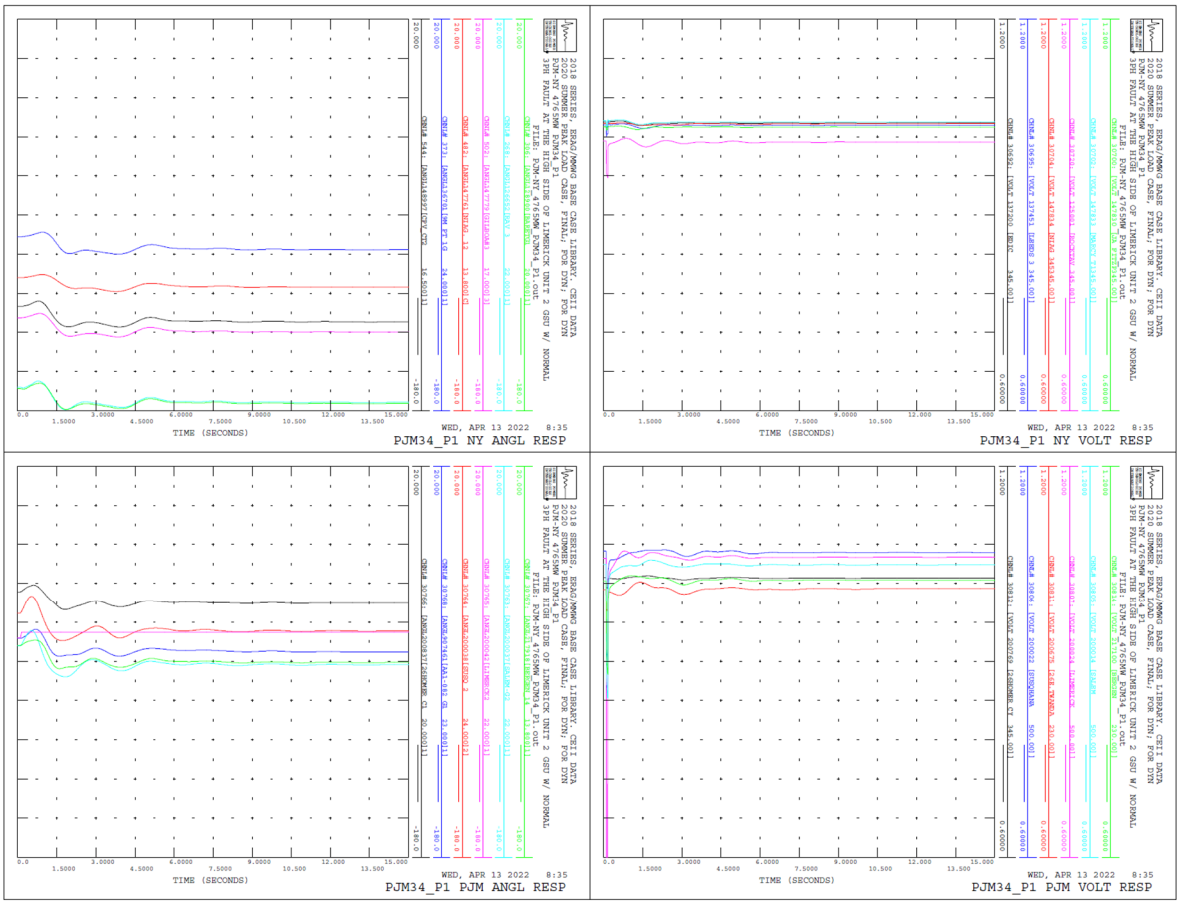


**Figure 224: PJM-NY 4765 MW Contingency PJM34_P1 Angle/Voltage Response Plots**

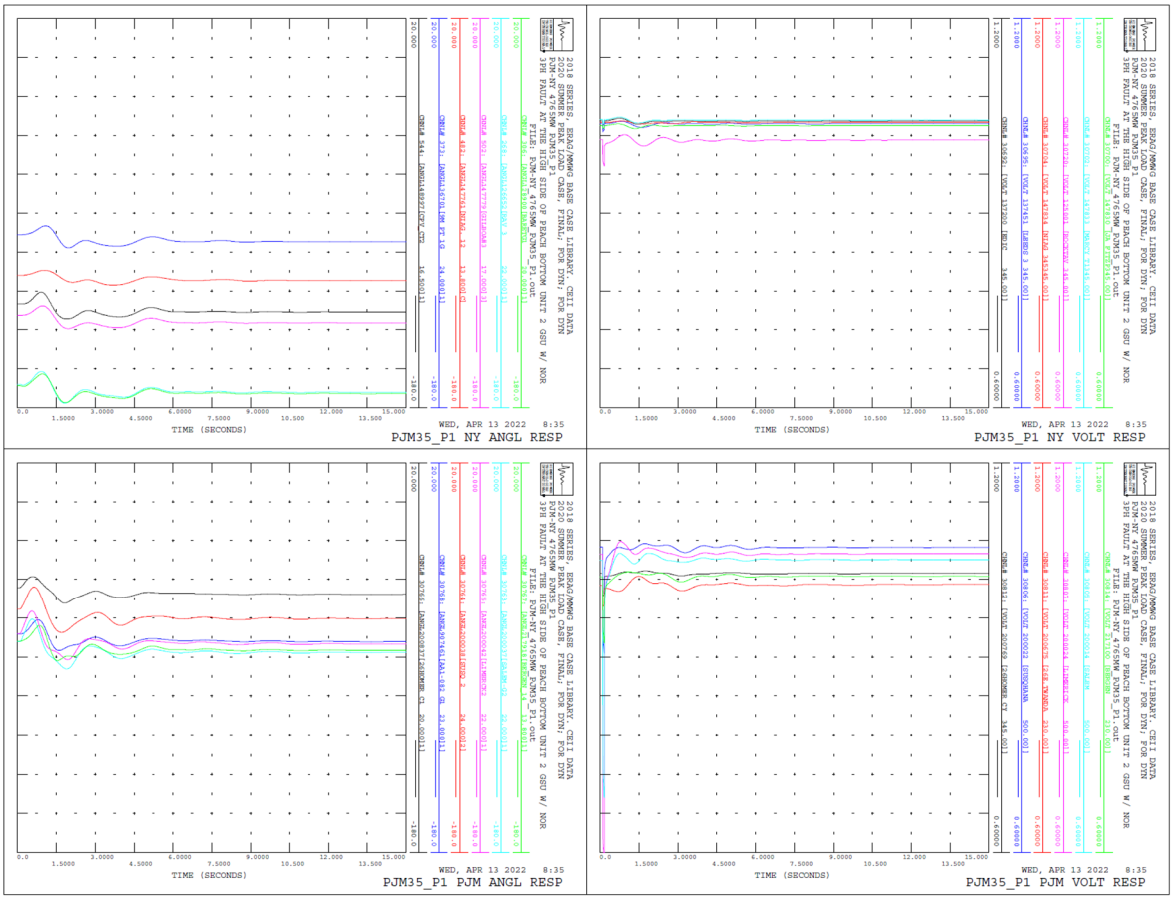


**Figure 225: PJM-NY 4765 MW Contingency PJM35_P1 Angle/Voltage Response Plots**

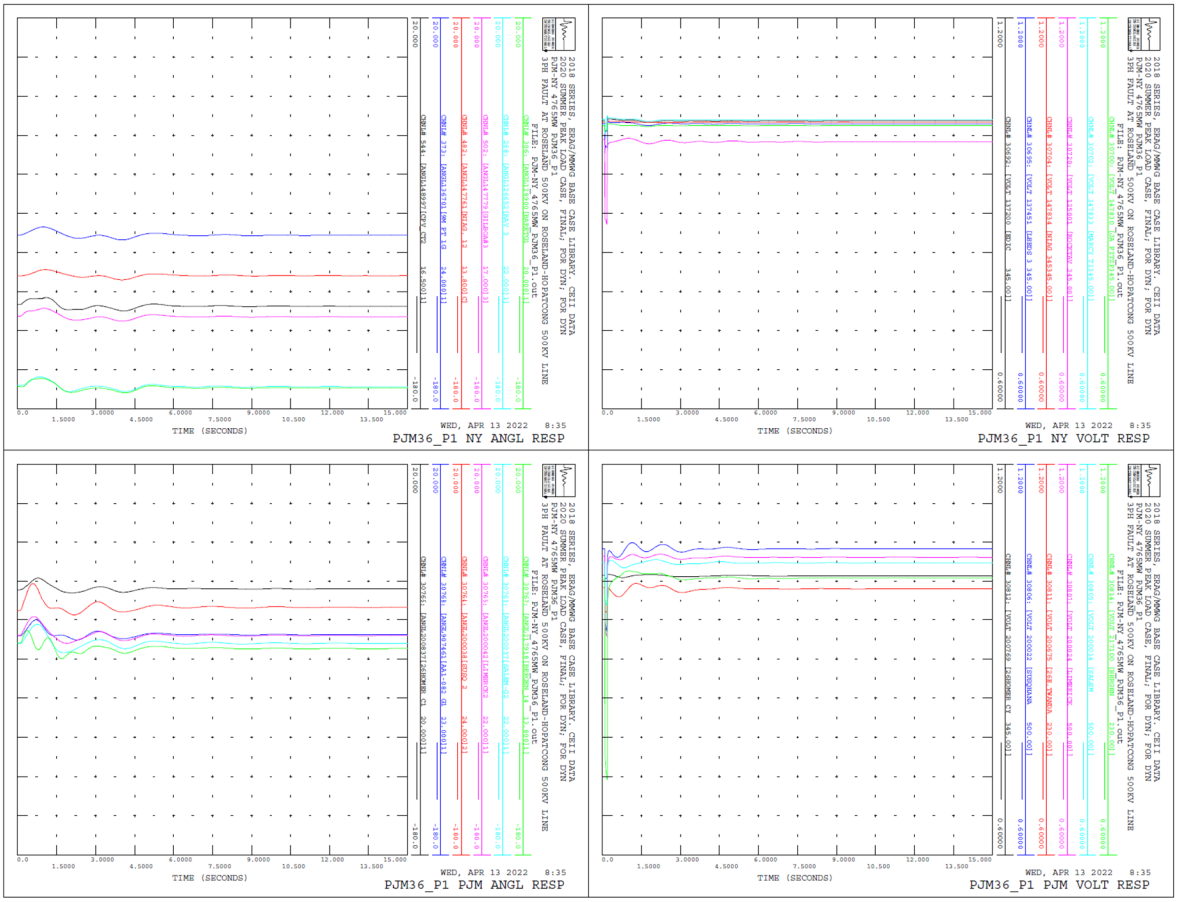


**Figure 226: PJM-NY 4765 MW Contingency PJM36_P1 Angle/Voltage Response Plots**

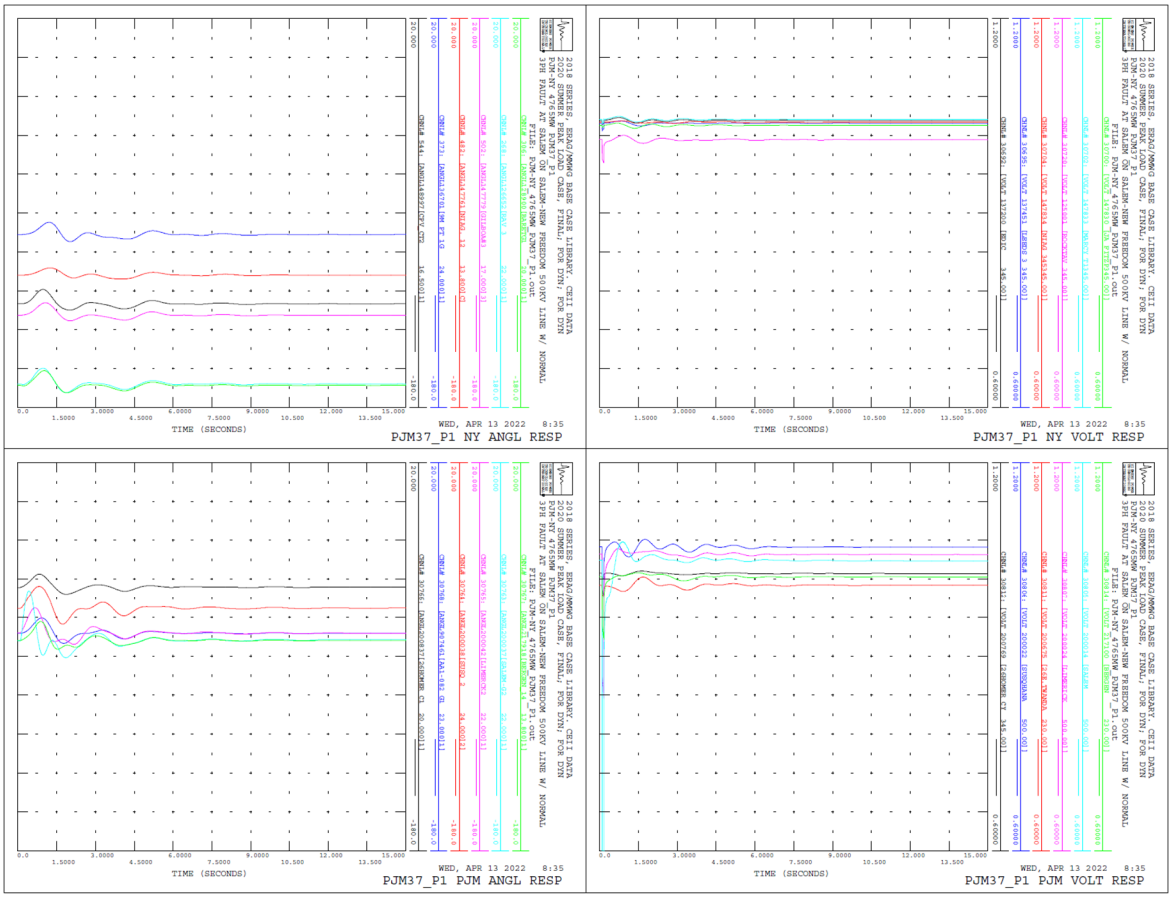


**Figure 227: PJM-NY 4765 MW Contingency PJM37_P1 Angle/Voltage Response Plots**

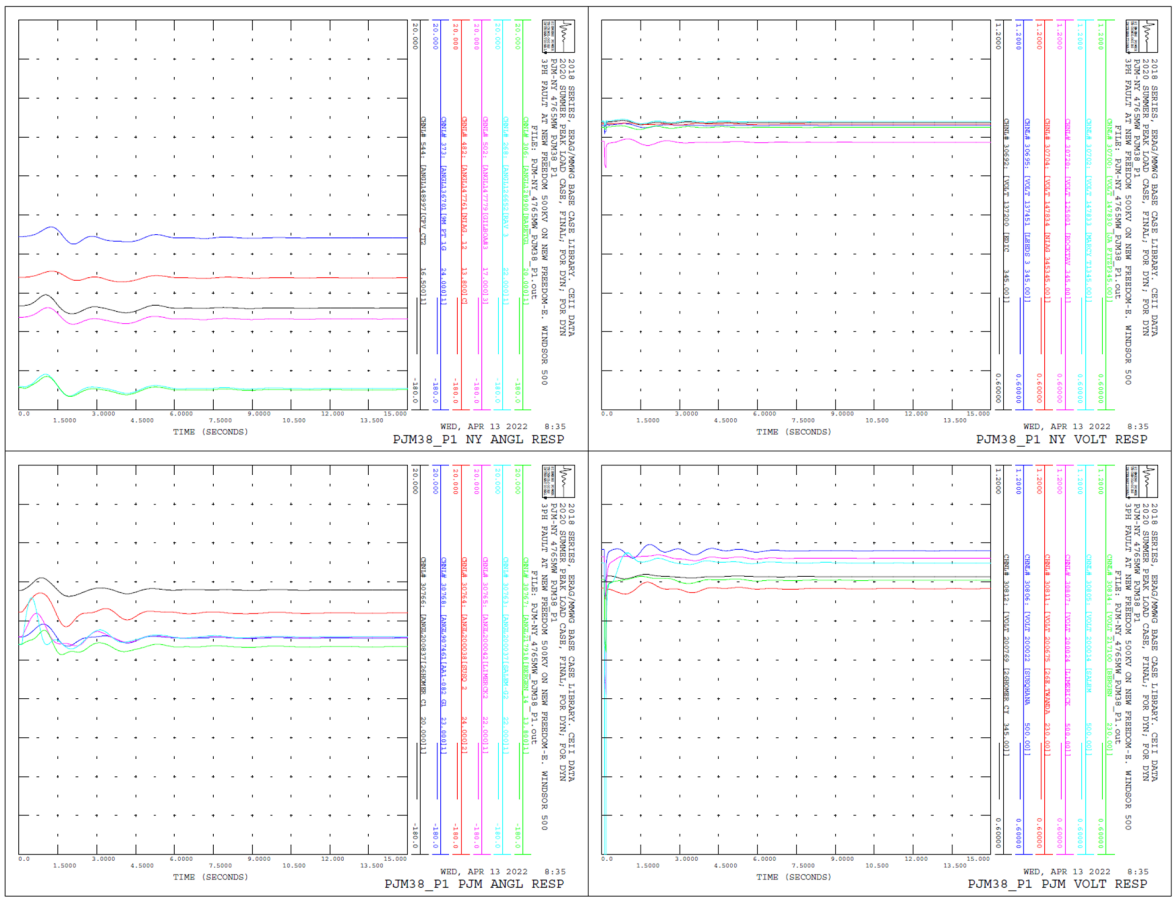


**Figure 228: PJM-NY 4765 MW Contingency PJM38_P1 Angle/Voltage Response Plots**

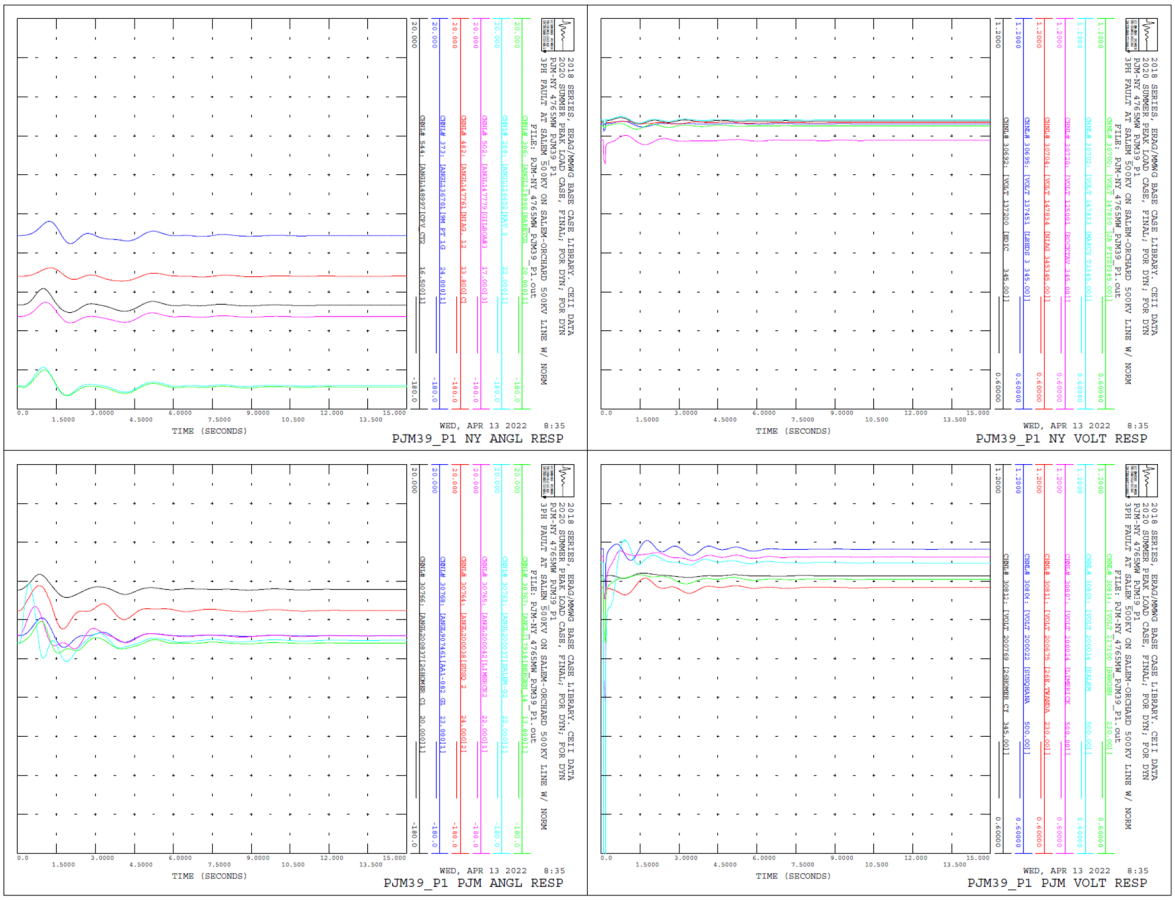


**Figure 229: PJM-NY 4765 MW Contingency PJM39_P1 Angle/Voltage Response Plots**

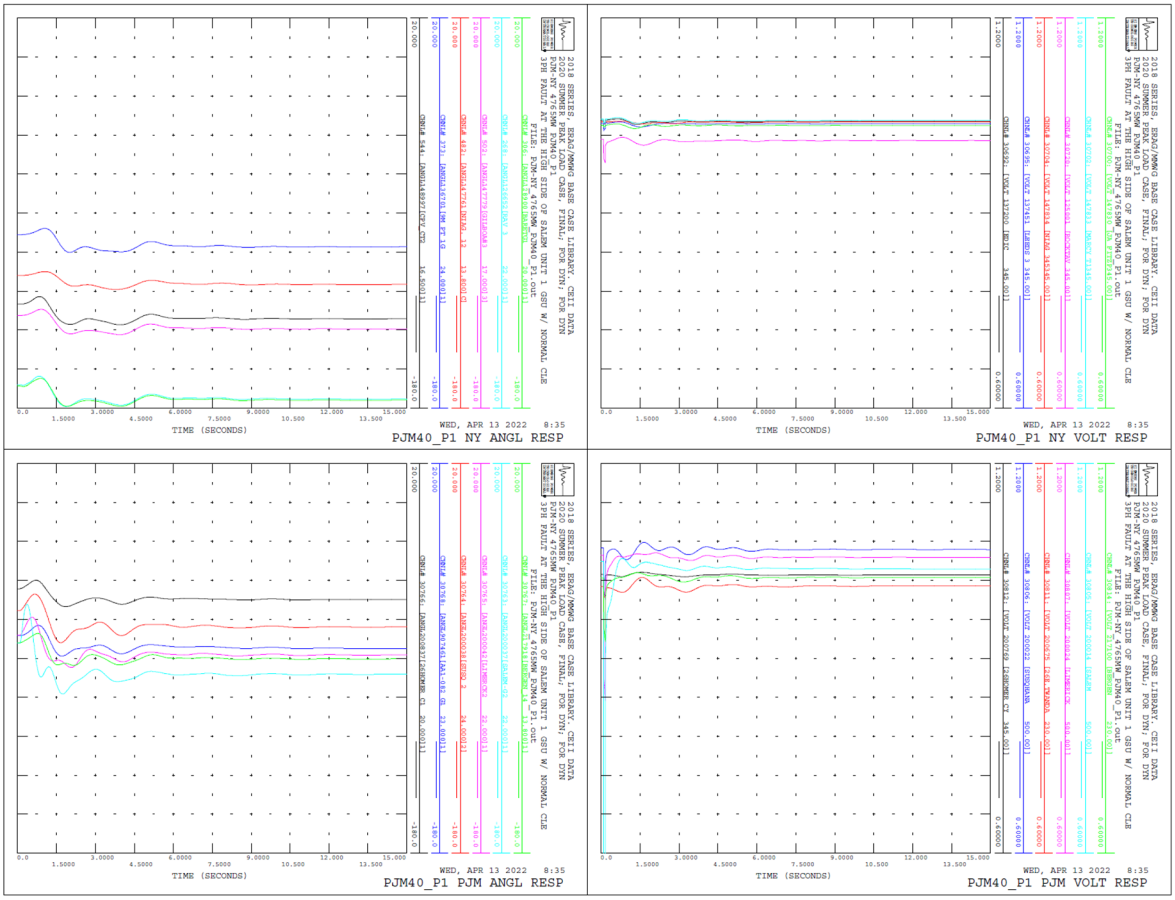


**Figure 230: PJM-NY 4765 MW Contingency PJM40_P1 Angle/Voltage Response Plots**

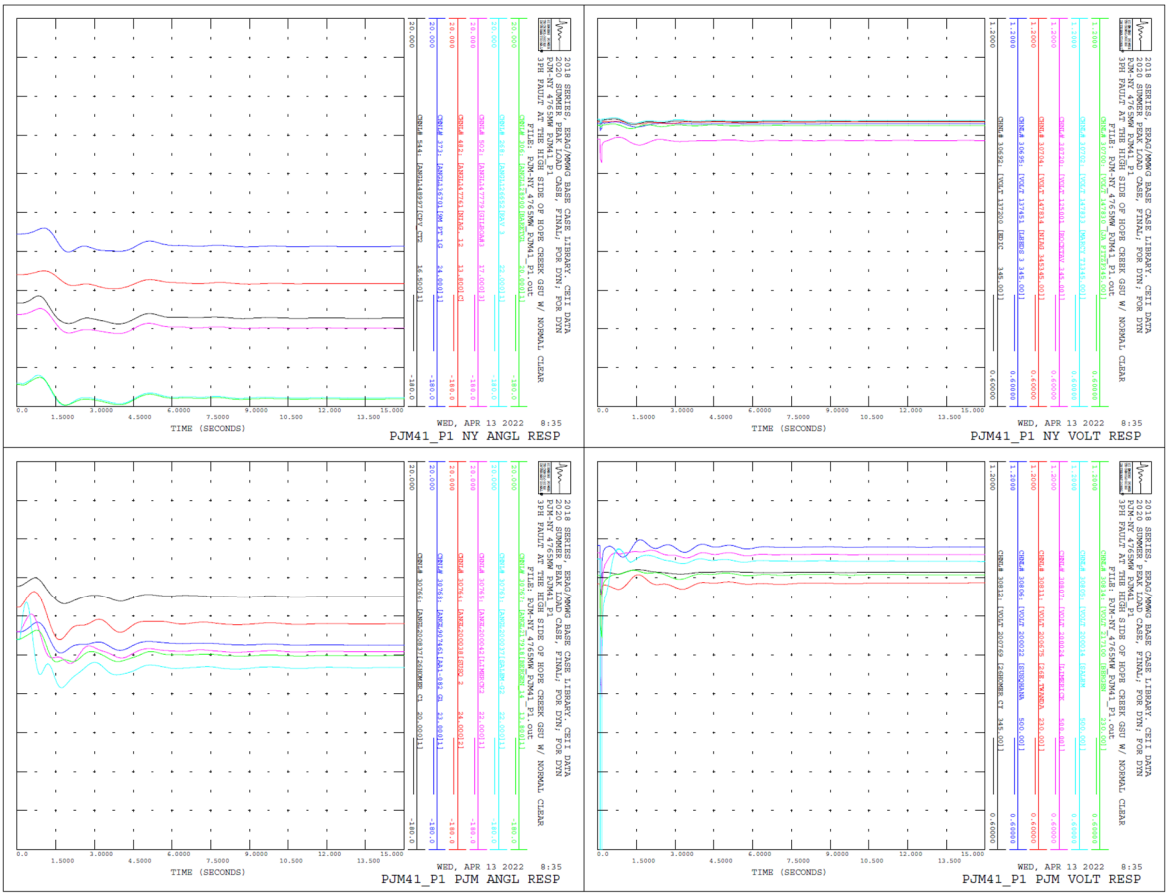


**Figure 231: PJM-NY 4765 MW Contingency PJM41_P1 Angle/Voltage Response Plots**

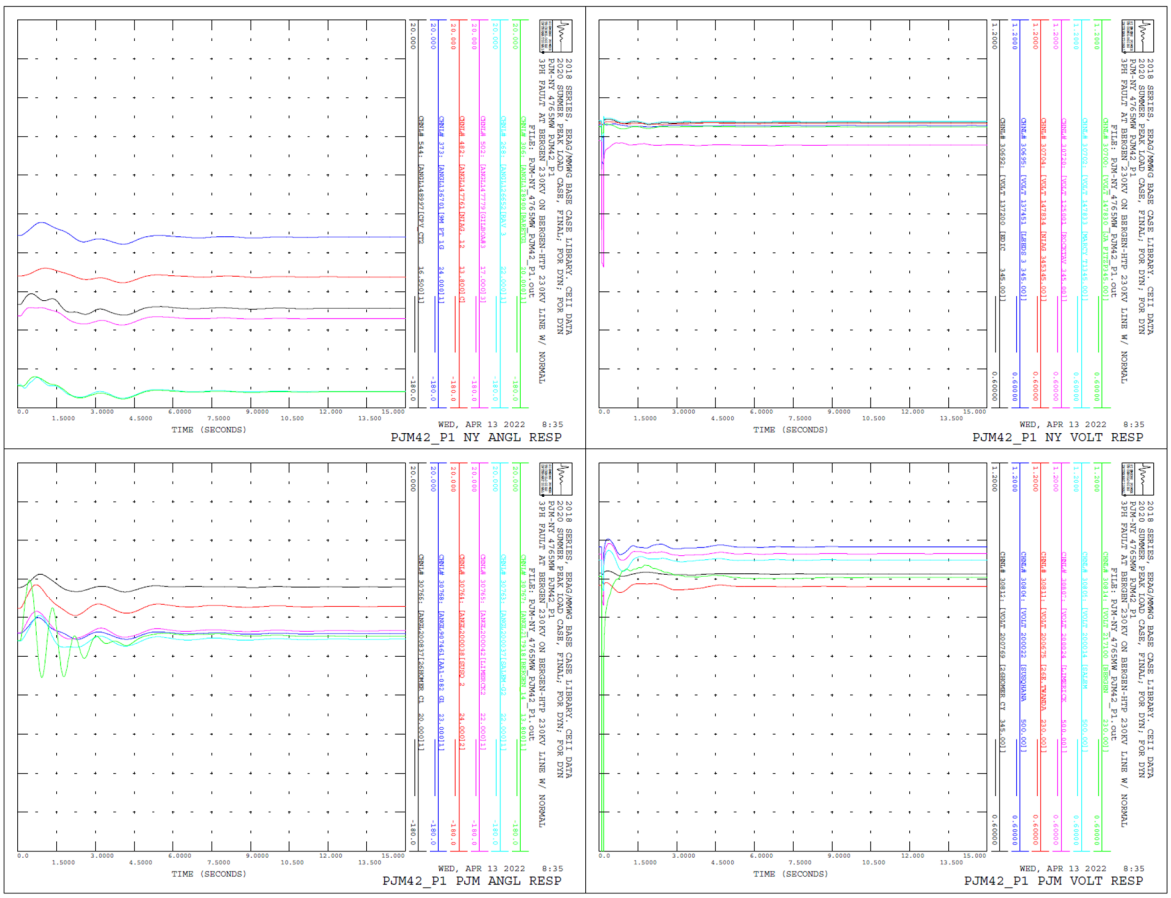


**Figure 232: PJM-NY 4765 MW Contingency PJM42_P1 Angle/Voltage Response Plots**

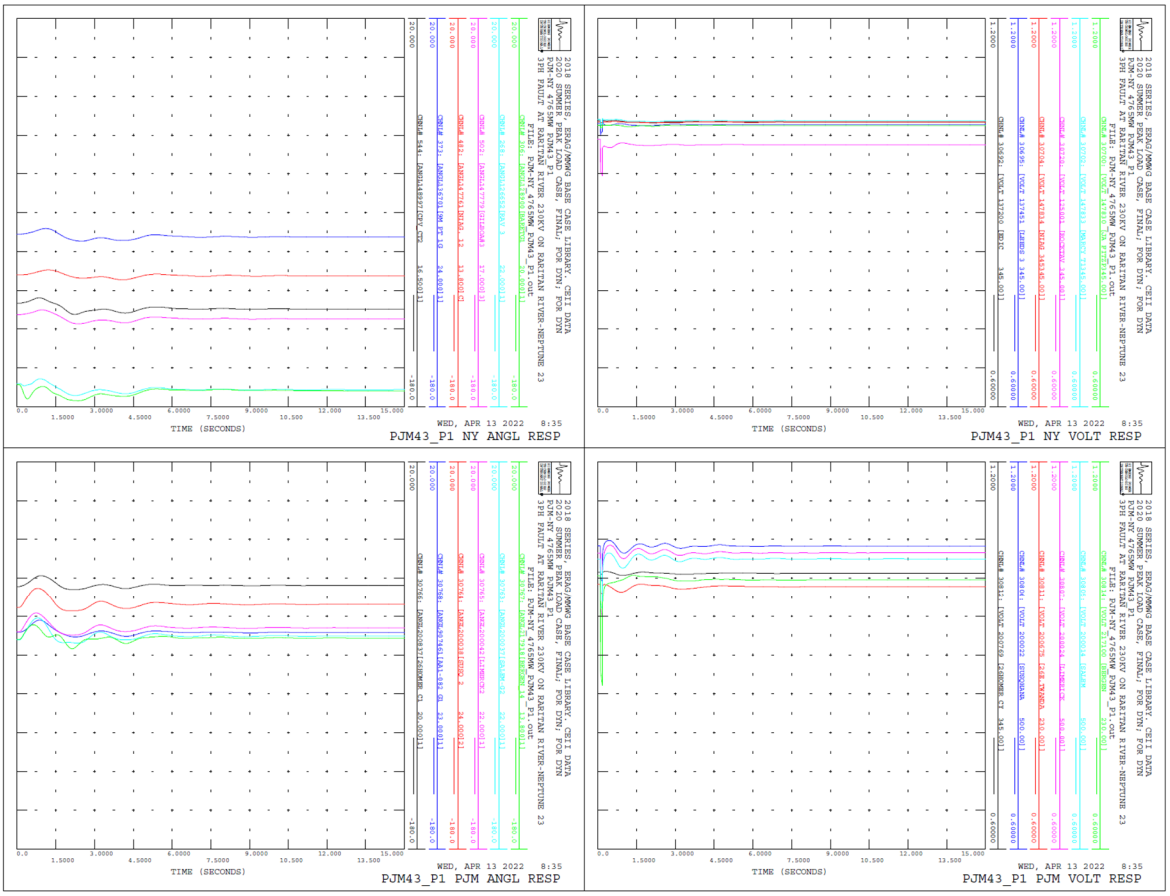


**Figure 233: PJM-NY 4765 MW Contingency PJM43_P1 Angle/Voltage Response Plots**

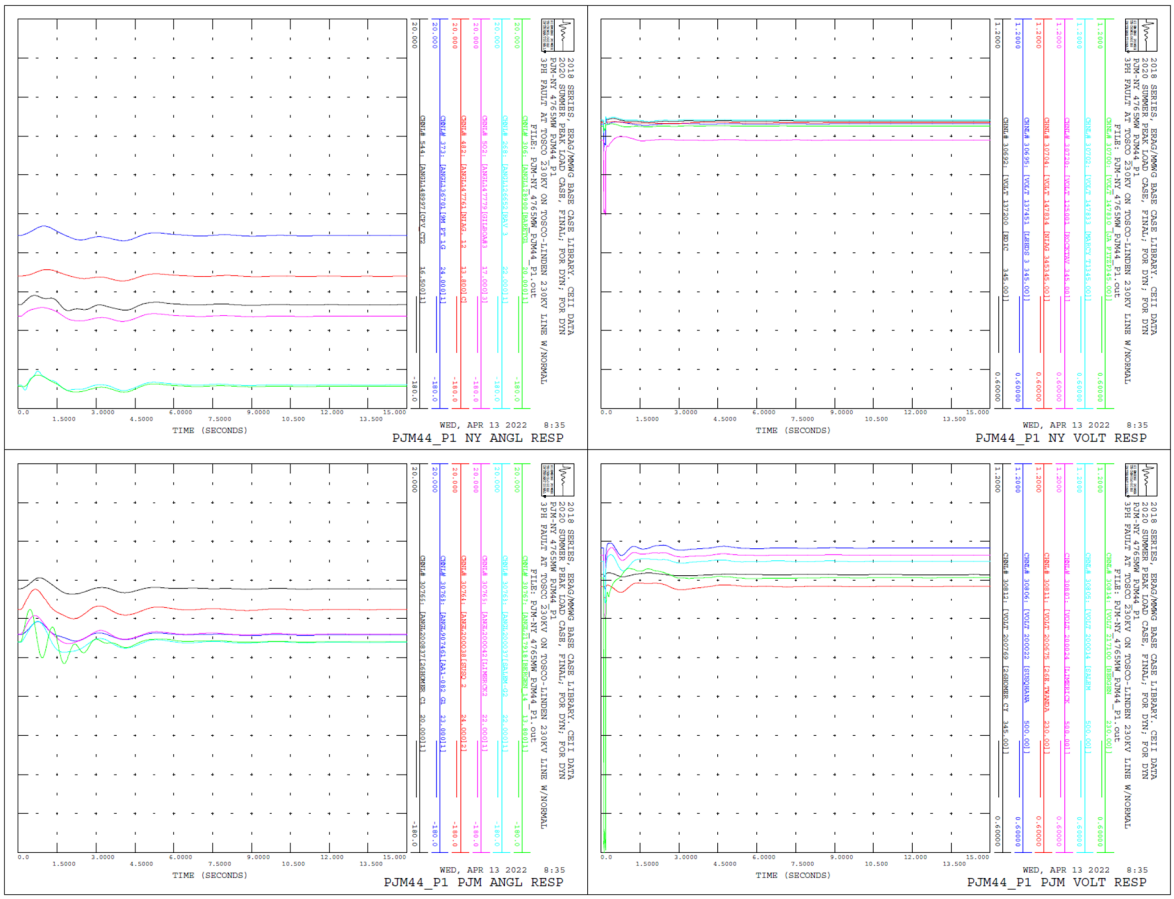


**Figure 234: PJM-NY 4765 MW Contingency PJM44_P1 Angle/Voltage Response Plots**

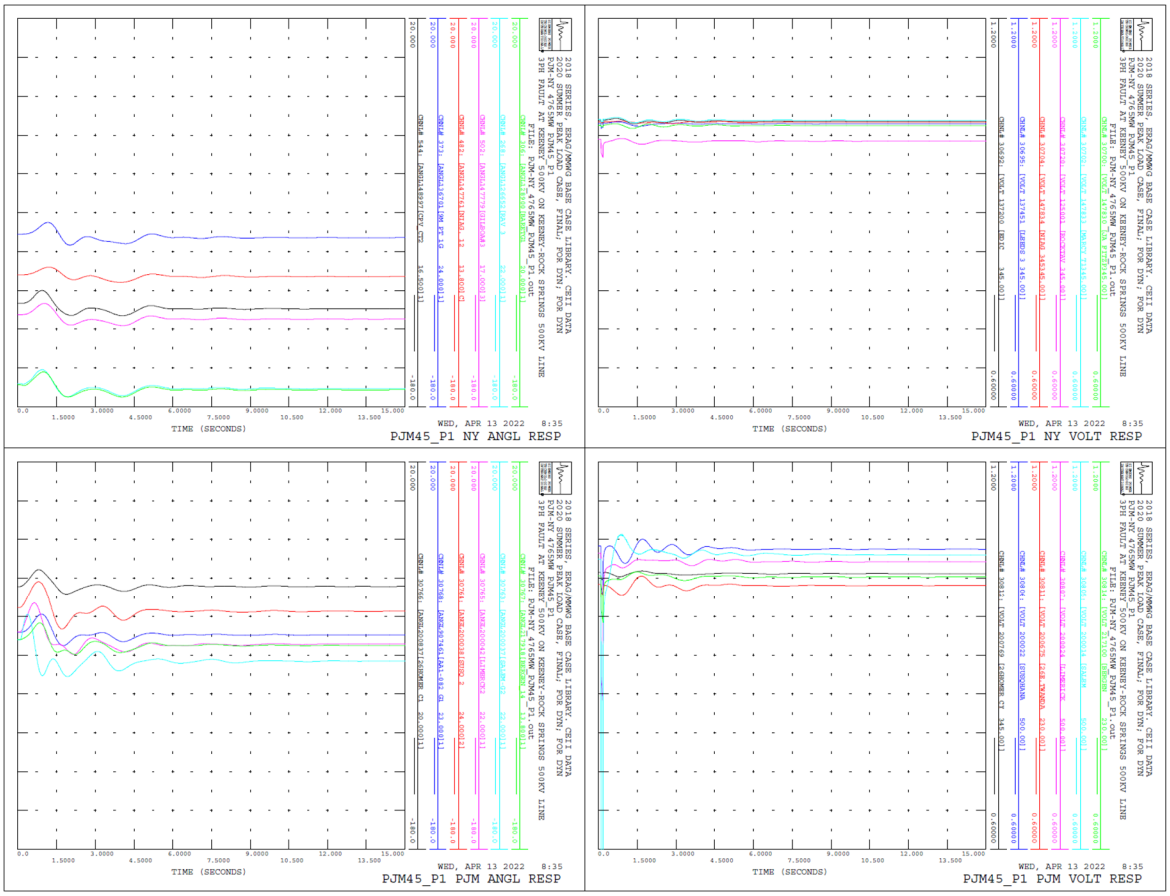


**Figure 235: PJM-NY 4765 MW Contingency PJM45_P1 Angle/Voltage Response Plots**

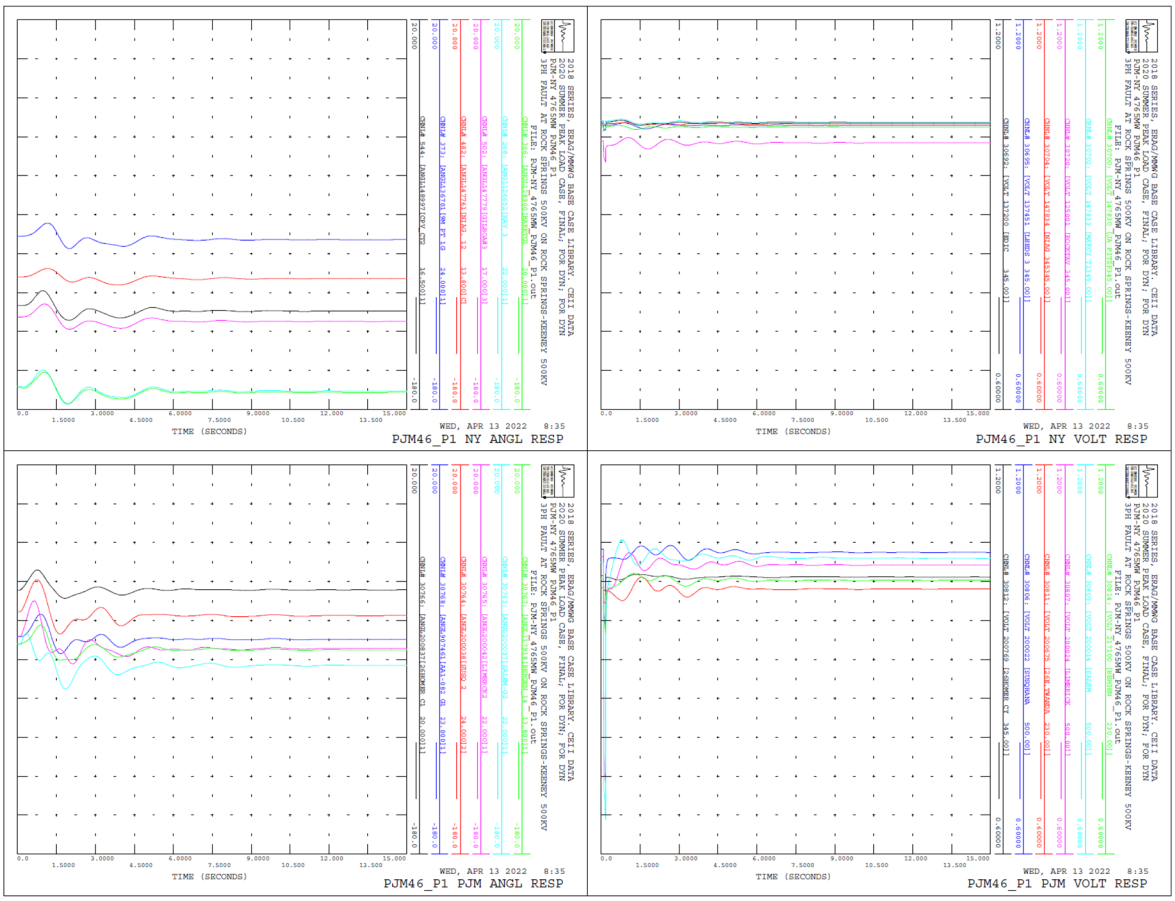


**Figure 236: PJM-NY 4765 MW Contingency PJM46_P1 Angle/Voltage Response Plots**

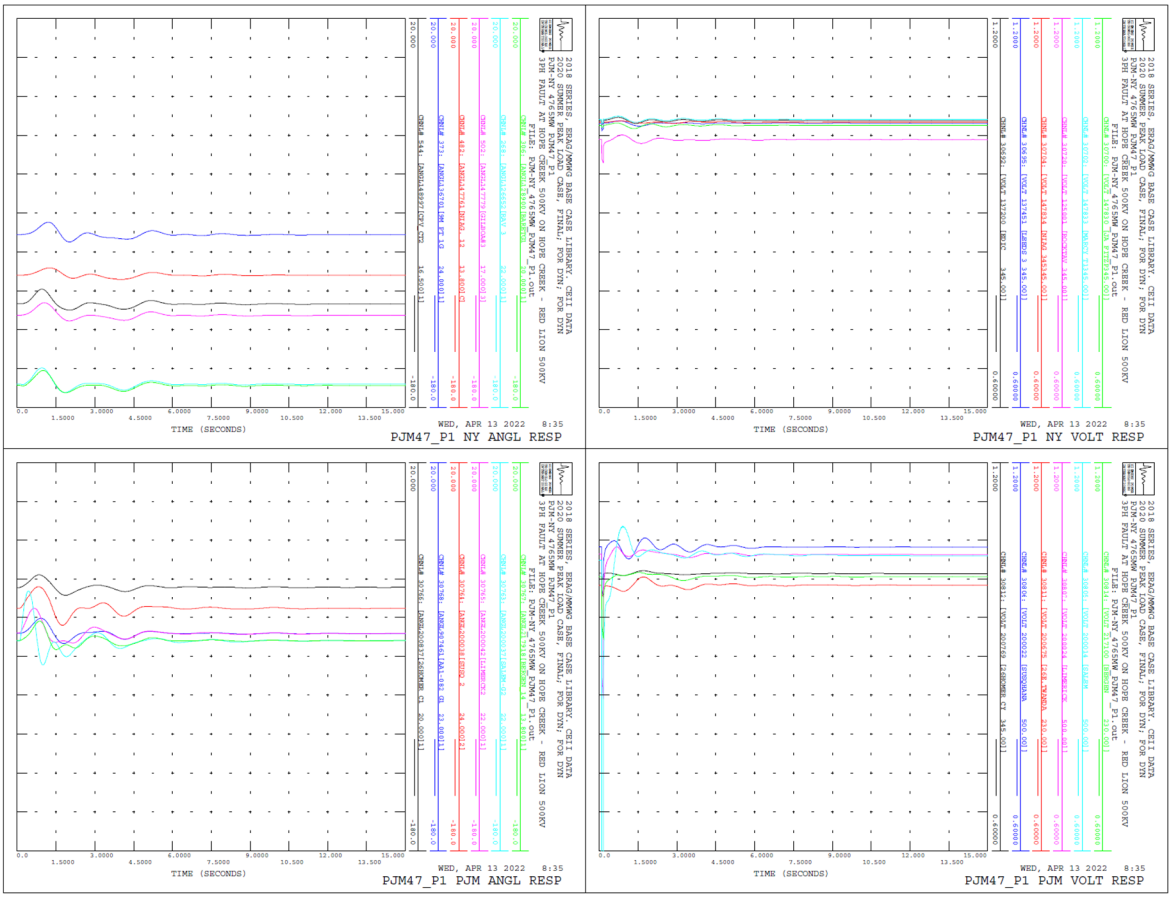


**Figure 237: PJM-NY 4765 MW Contingency PJM47_P1 Angle/Voltage Response Plots**

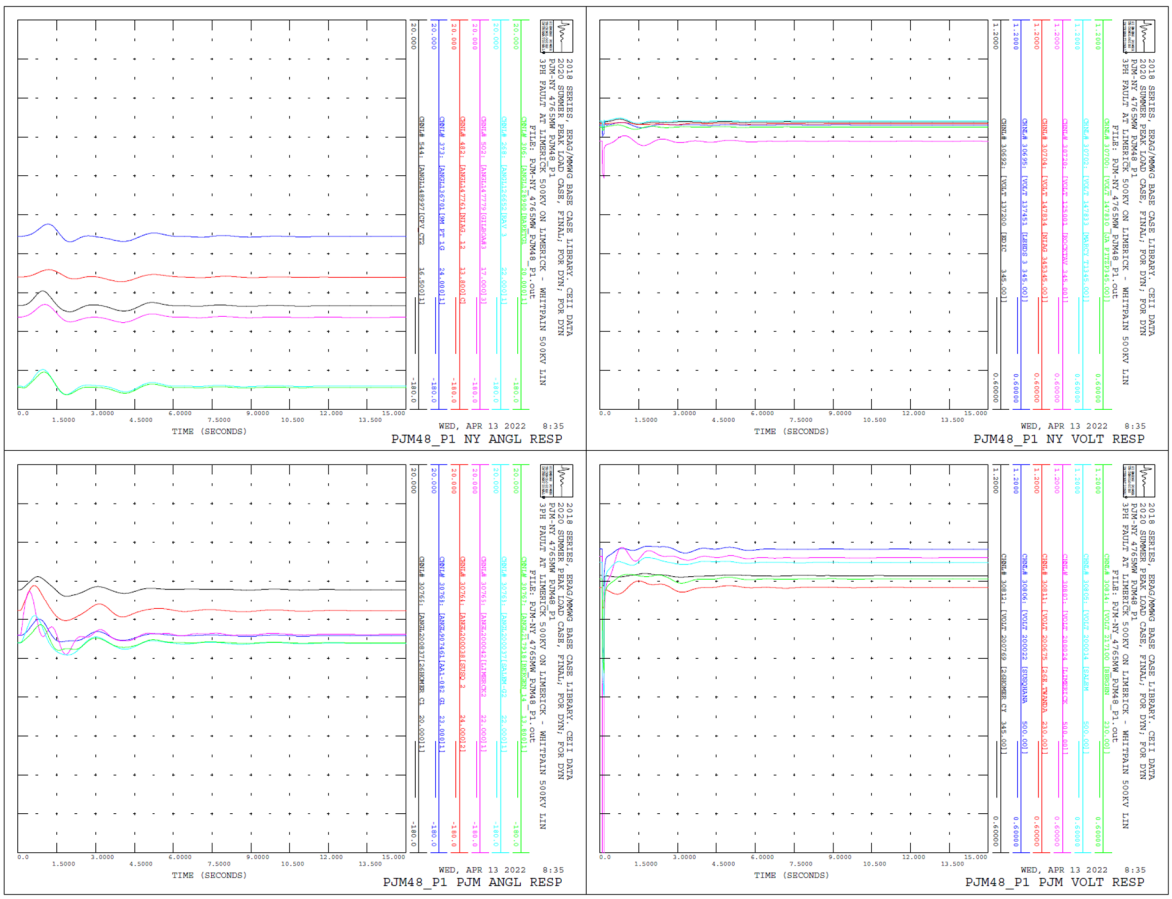


**Figure 238: PJM-NY 4765 MW Contingency PJM48_P1 Angle/Voltage Response Plots**

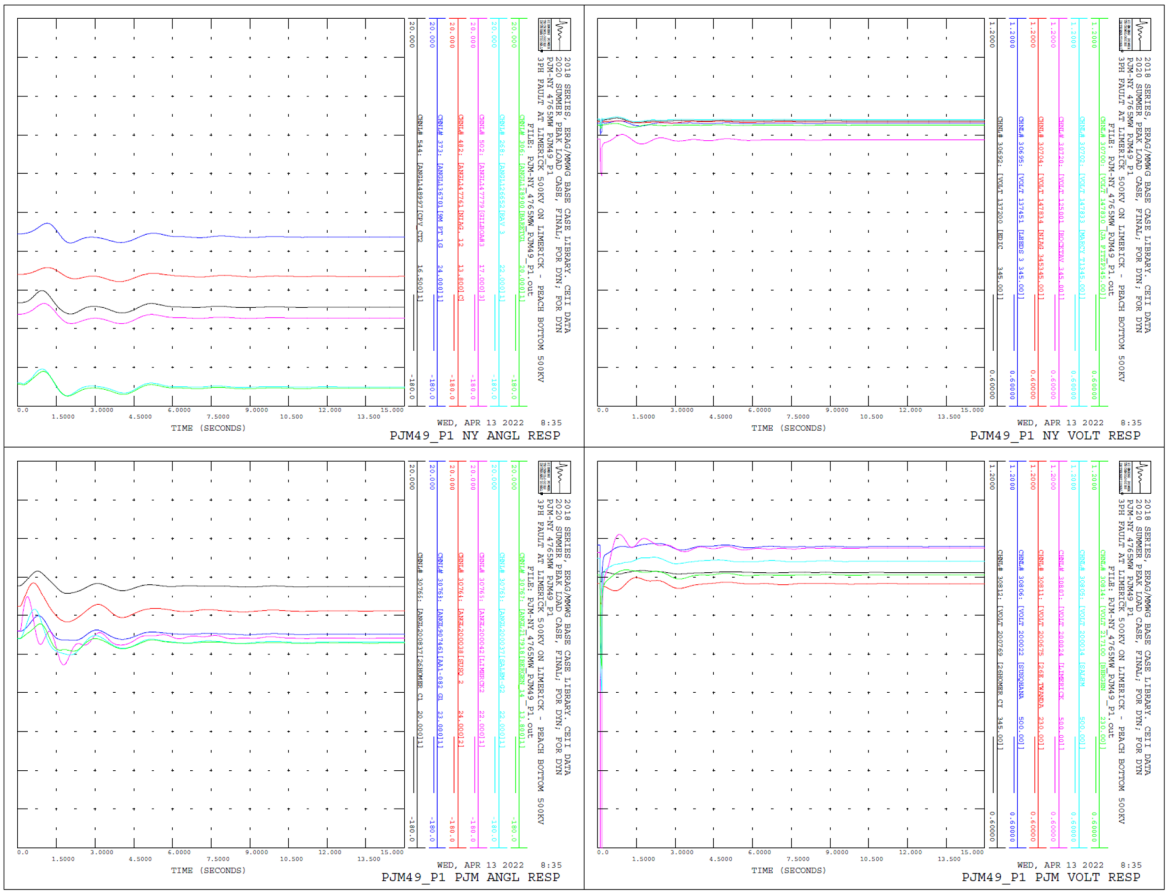


**Figure 239: PJM-NY 4765 MW Contingency PJM49_P1 Angle/Voltage Response Plots**

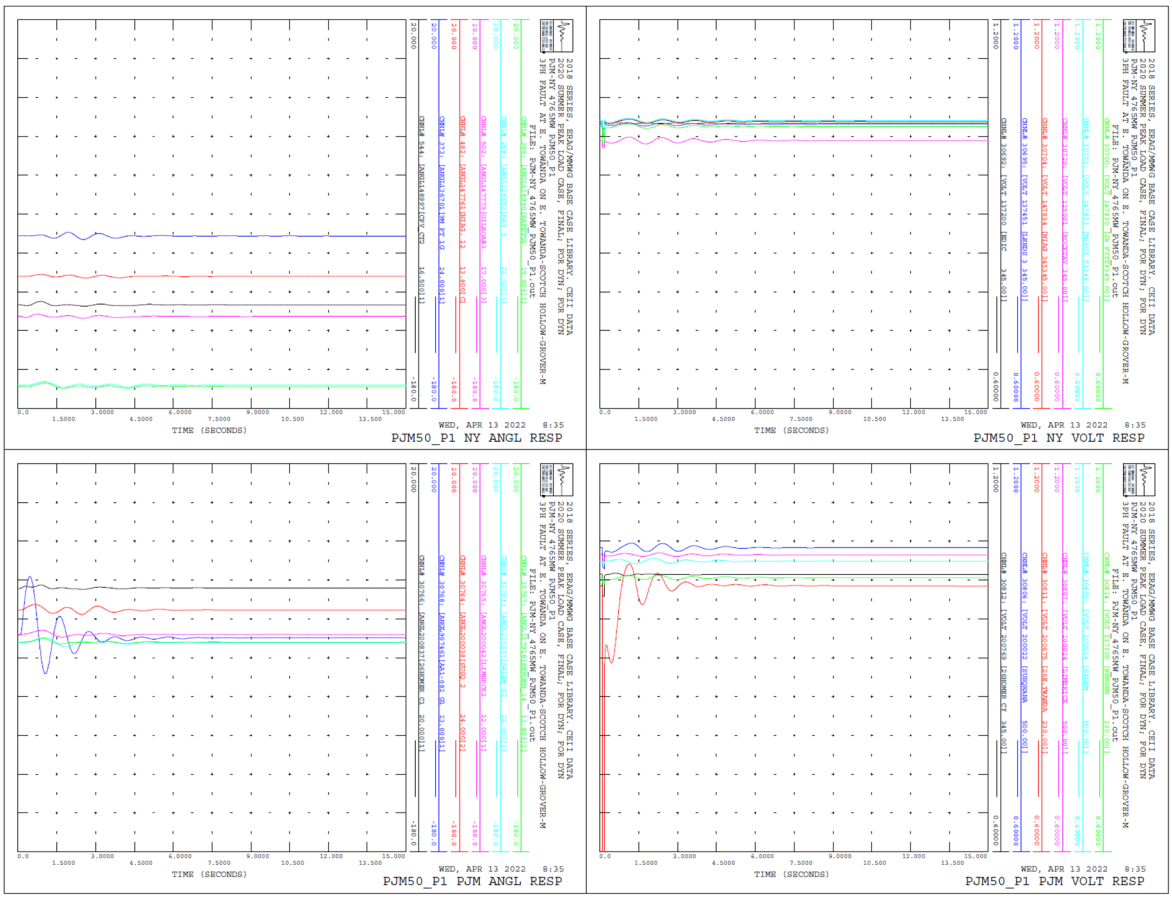


**Figure 240: PJM-NY 4765 MW Contingency PJM50_P1 Angle/Voltage Response Plots**

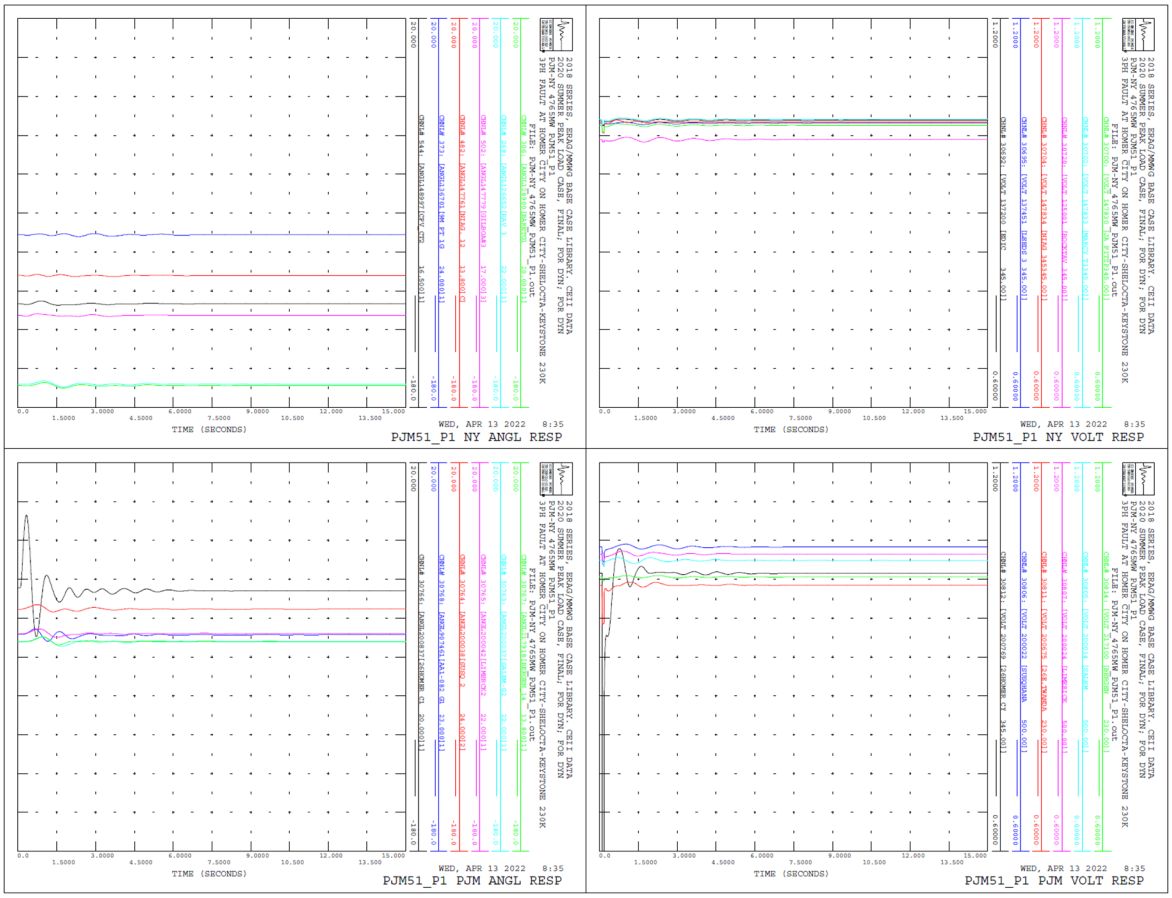


**Figure 241: PJM-NY 4765 MW Contingency PJM51_P1 Angle/Voltage Response Plots**

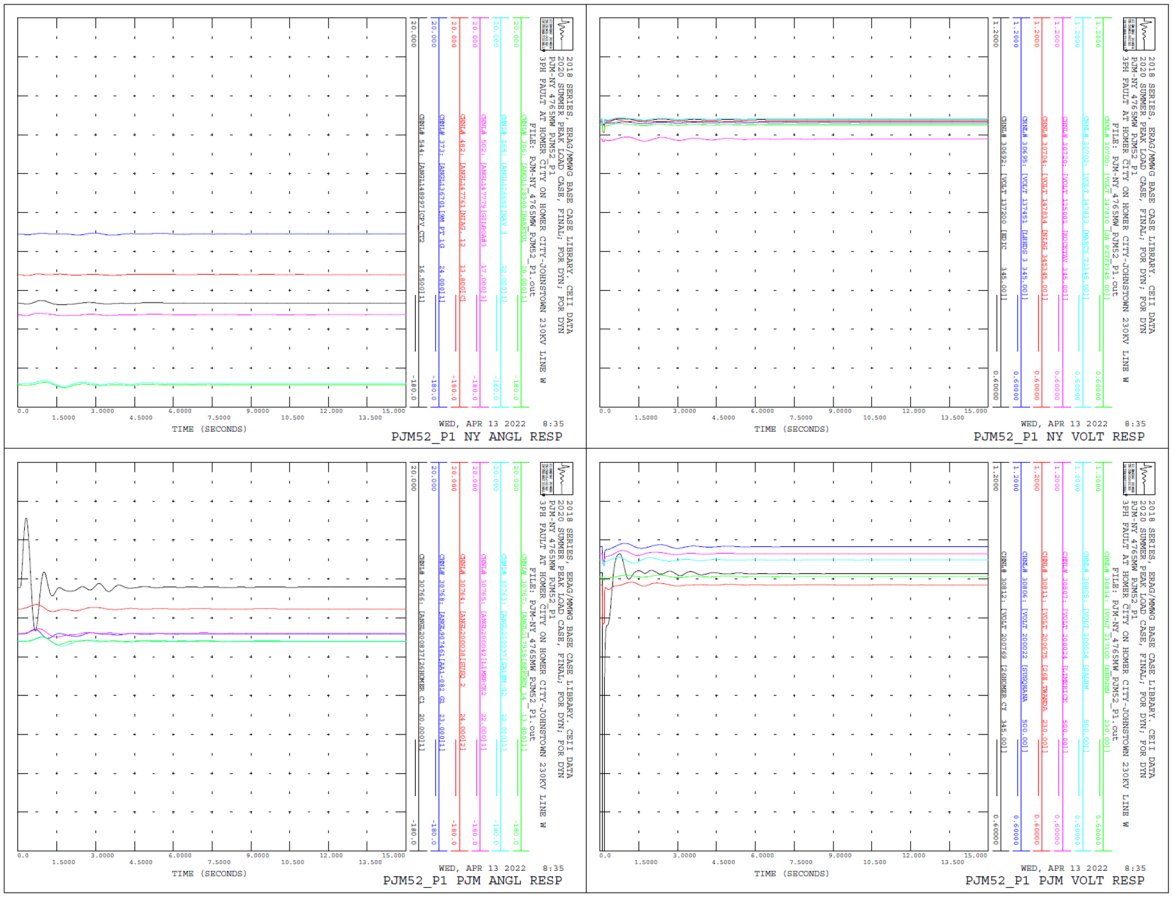


**Figure 242: PJM-NY 4765 MW Contingency PJM52_P1 Angle/Voltage Response Plots**

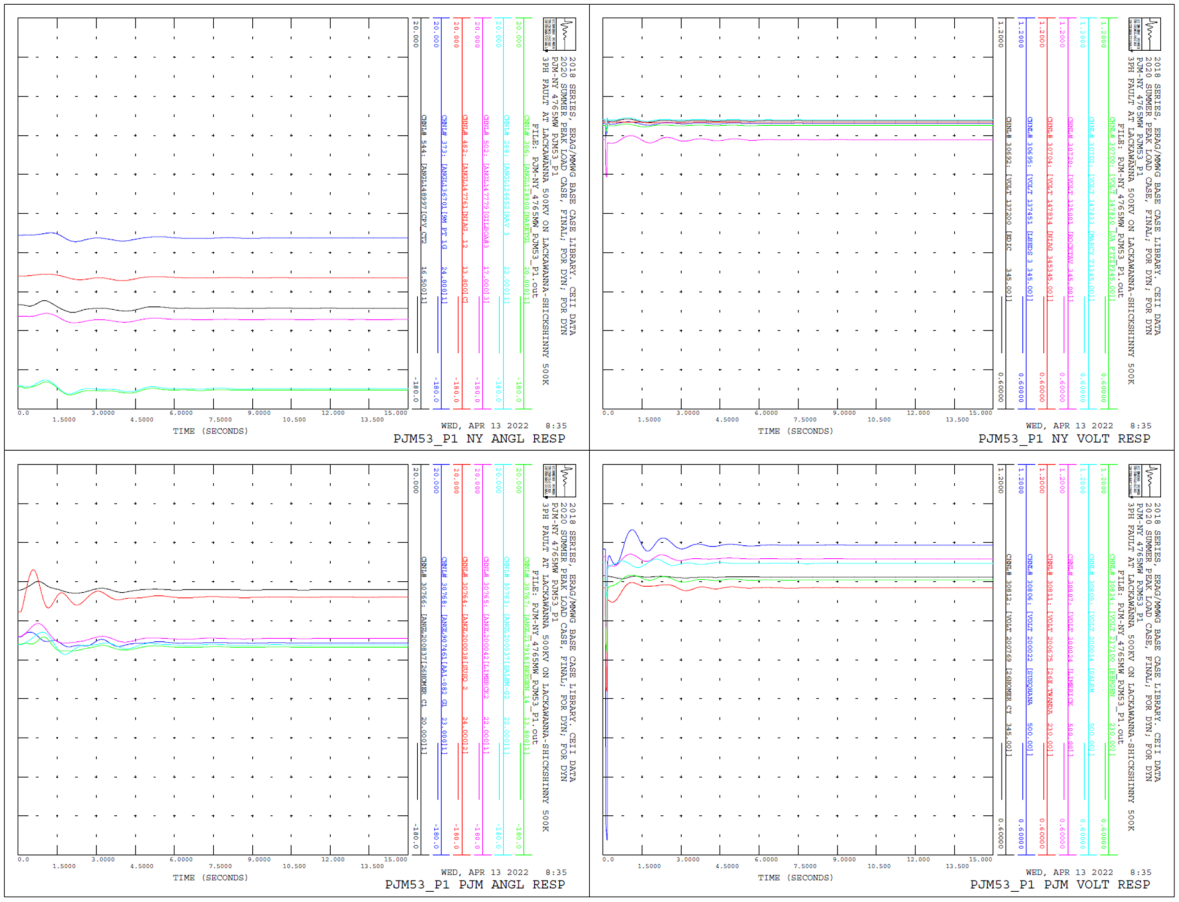


**Figure 243: PJM-NY 4765 MW Contingency PJM53_P1 Angle/Voltage Response Plots**

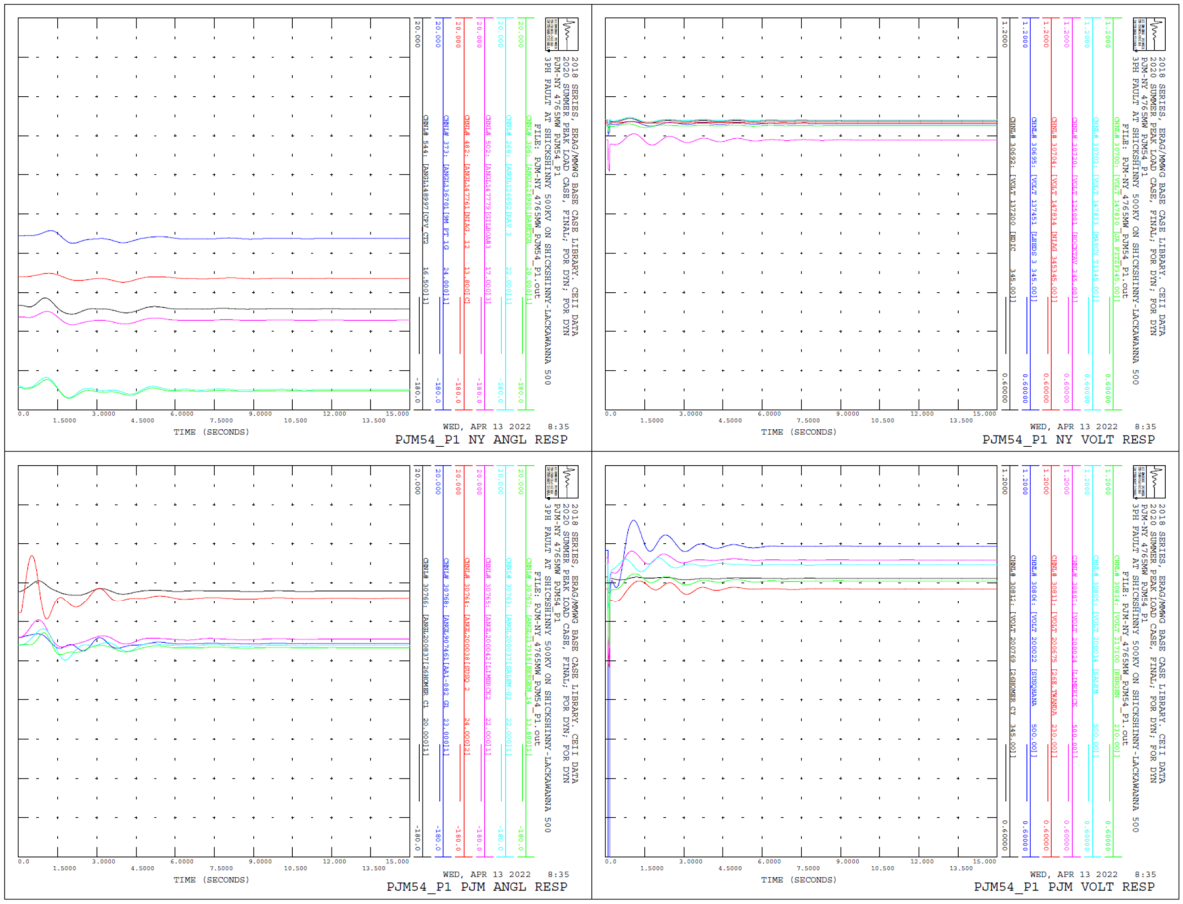


**Figure 244: PJM-NY 4765 MW Contingency PJM54_P1 Angle/Voltage Response Plots**

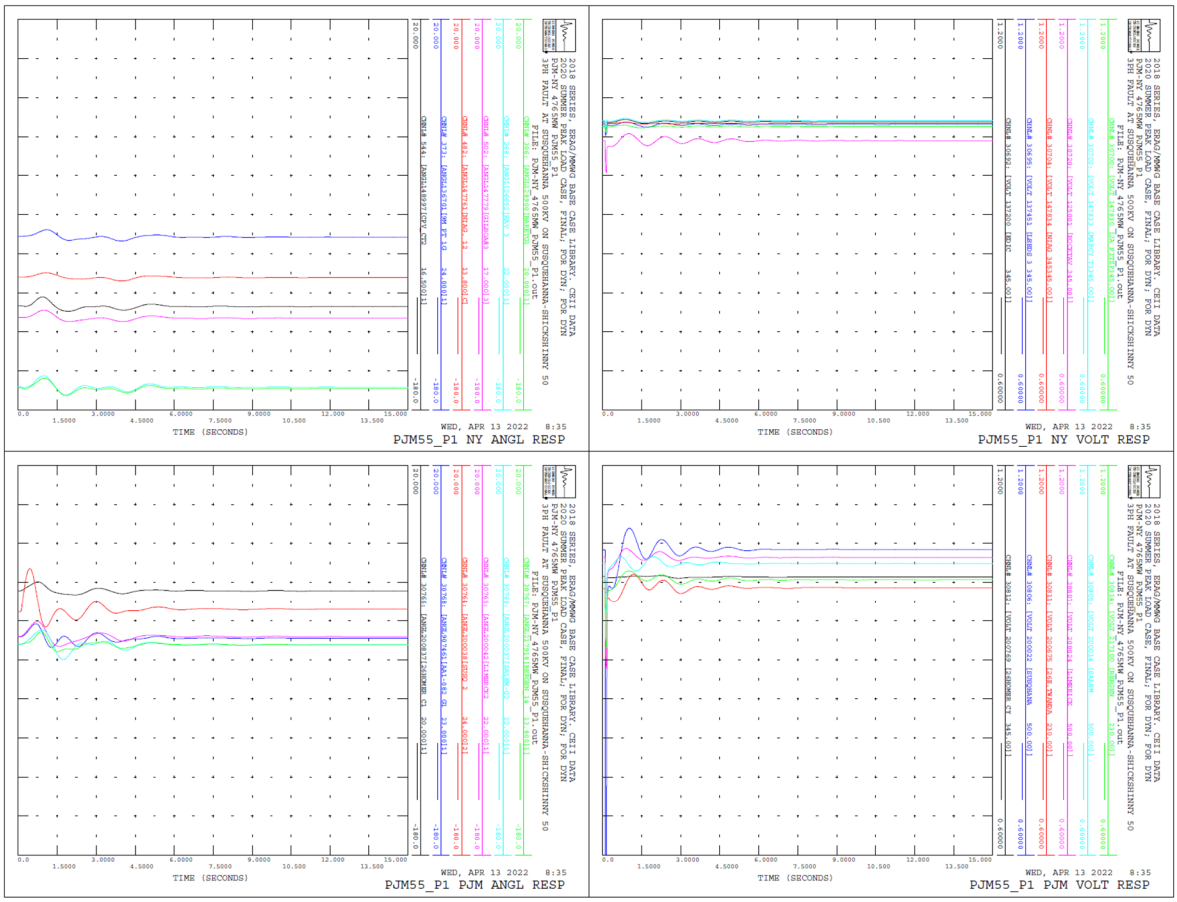


**Figure 245: PJM-NY 4765 MW Contingency PJM55_P1 Angle/Voltage Response Plots**

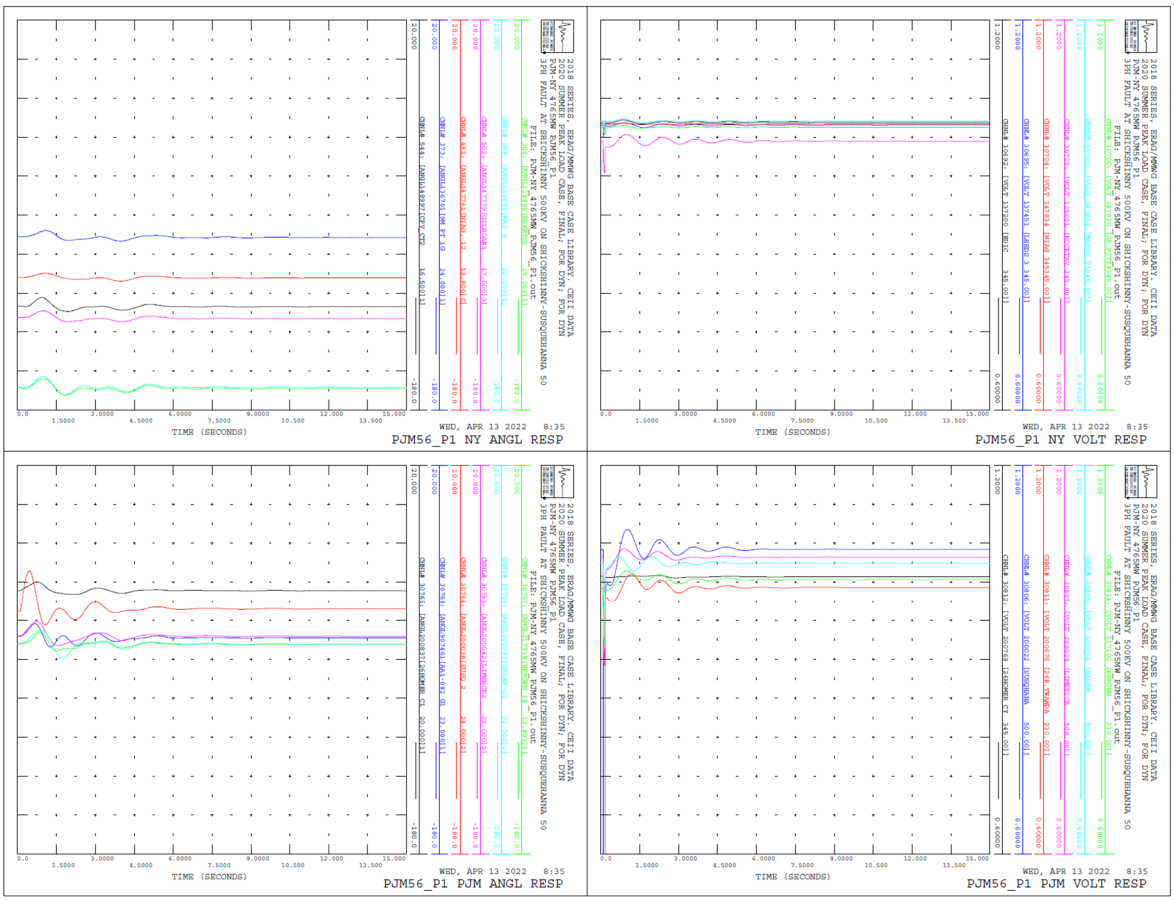


**Figure 246: PJM-NY 4765 MW Contingency PJM56_P1 Angle/Voltage Response Plots**

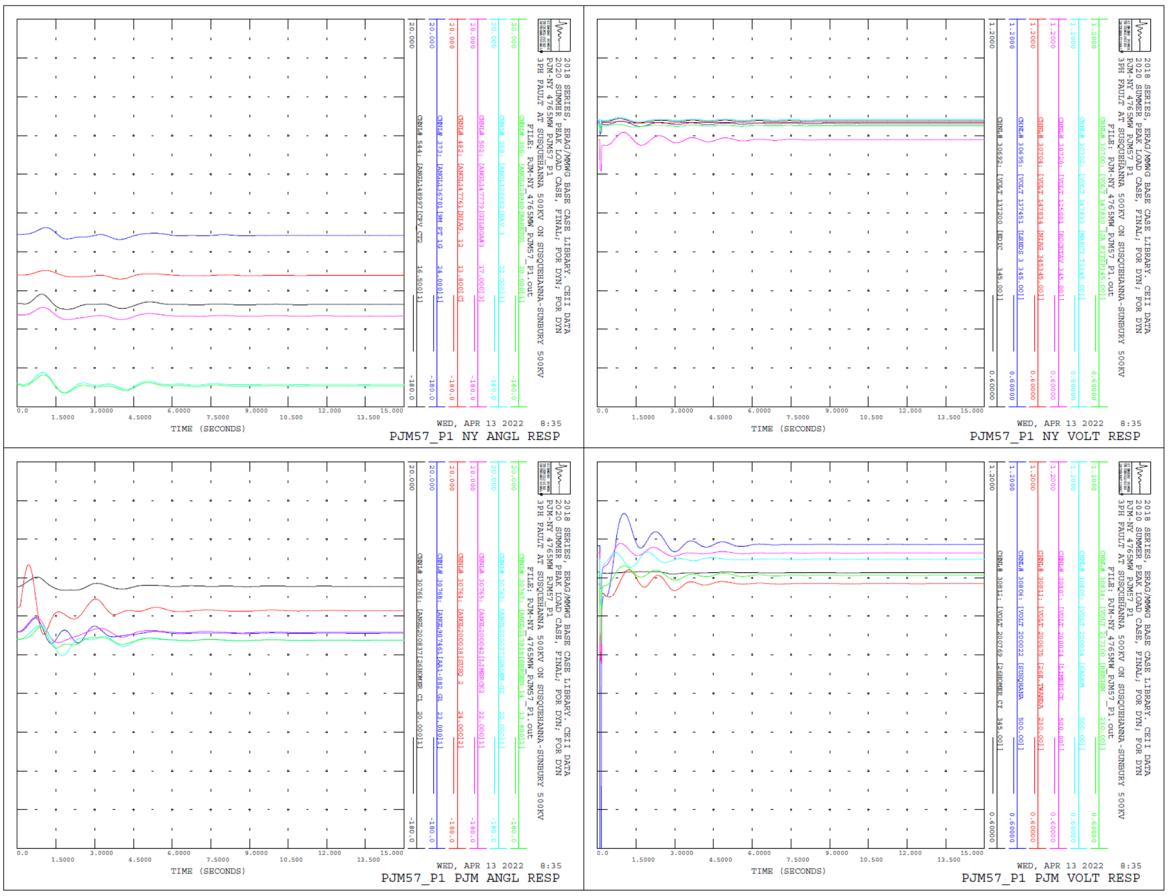


**Figure 247: PJM-NY 4765 MW Contingency PJM57_P1 Angle/Voltage Response Plots**

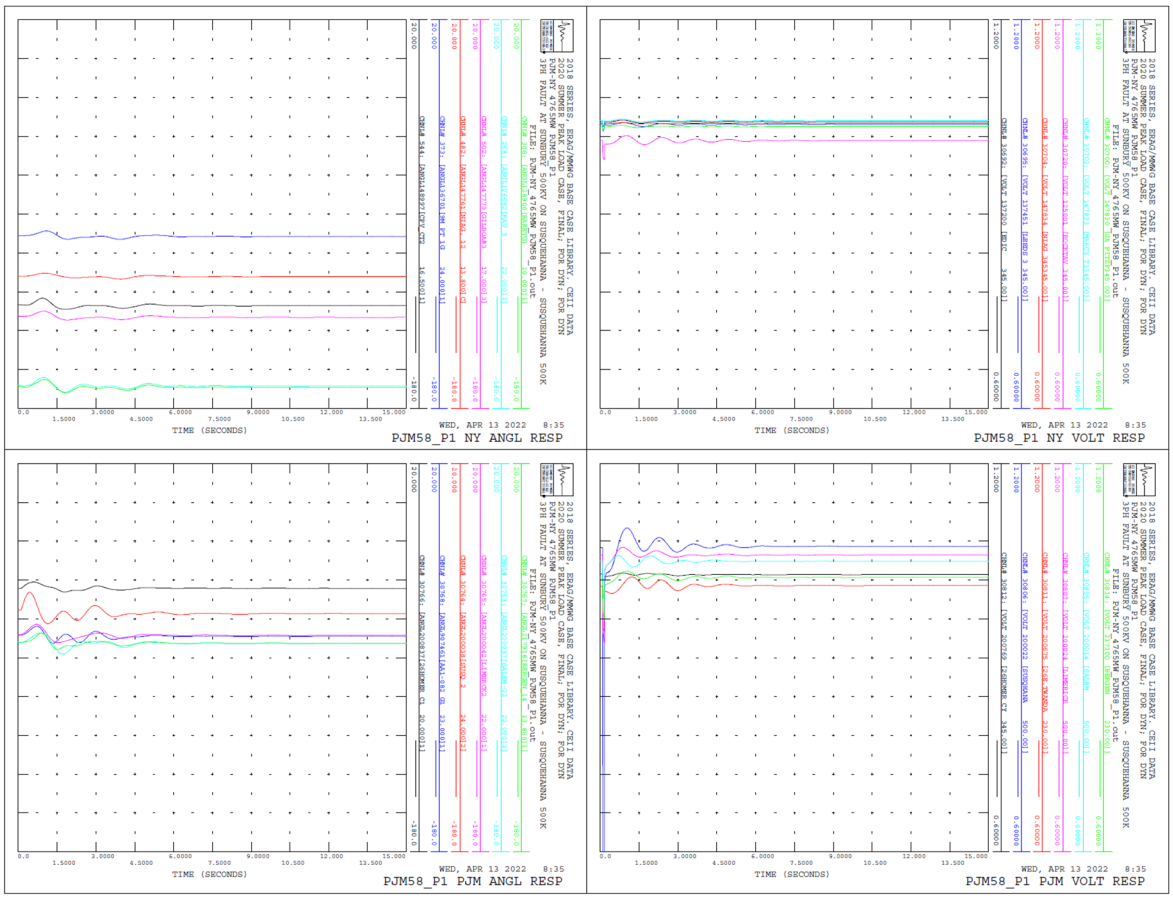


**Figure 248: PJM-NY 4765 MW Contingency PJM58_P1 Angle/Voltage Response Plots**

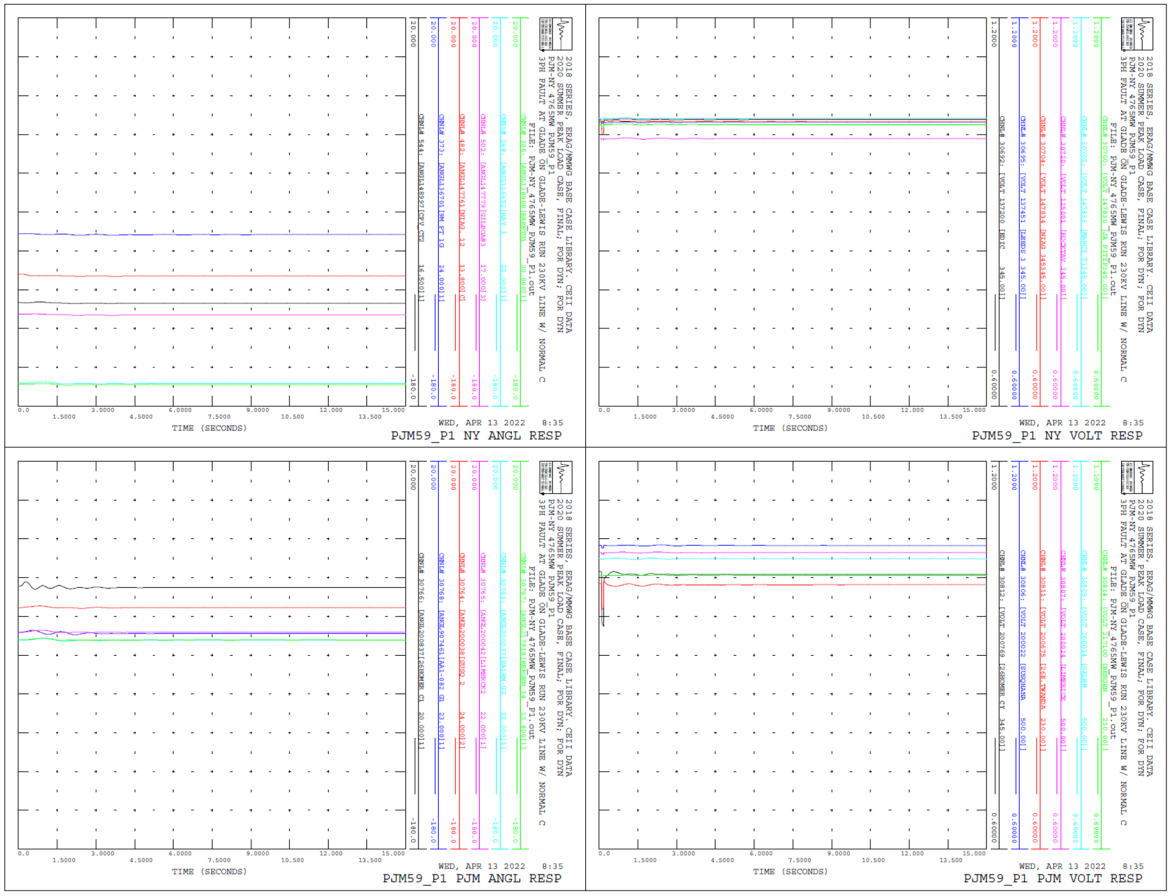


**Figure 249: PJM-NY 4765 MW Contingency PJM59_P1 Angle/Voltage Response Plots**

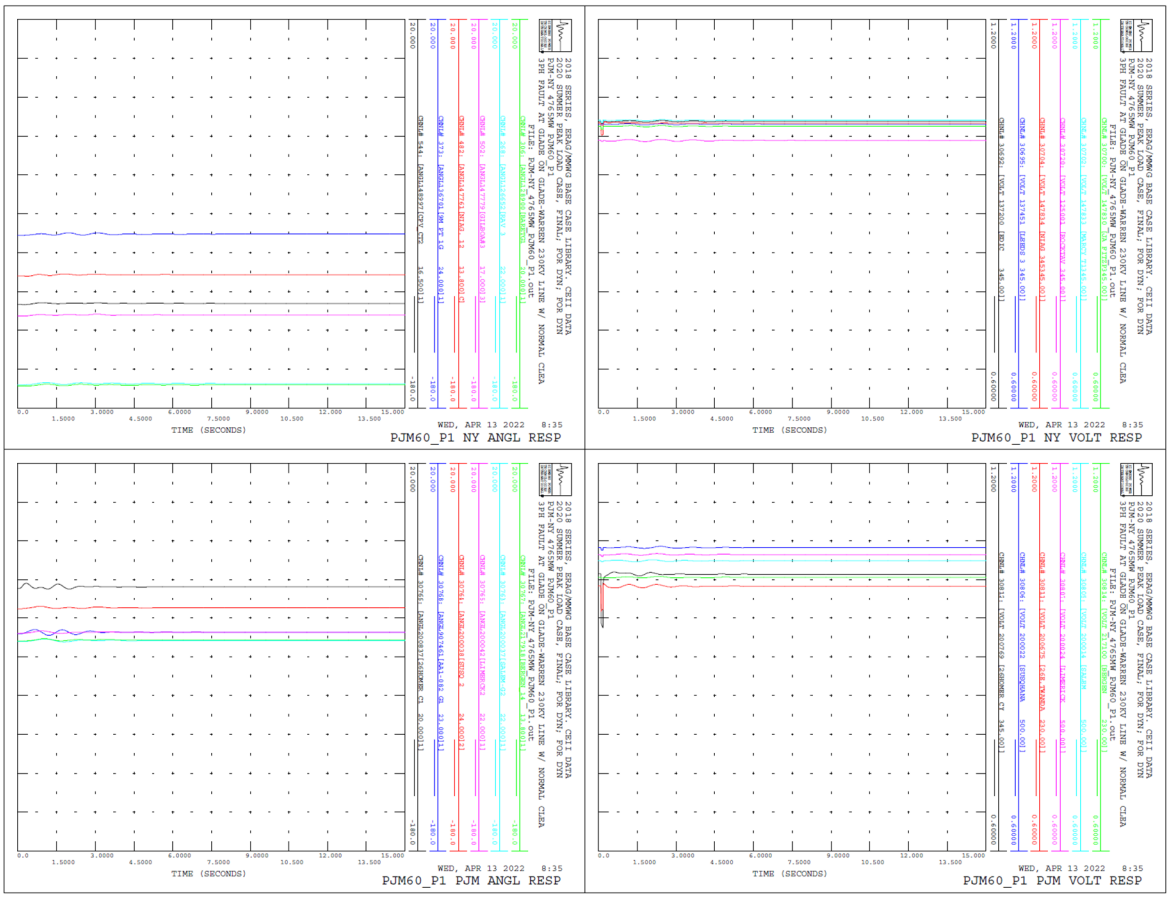


**Figure 250: PJM-NY 4765 MW Contingency PJM60_P1 Angle/Voltage Response Plots**

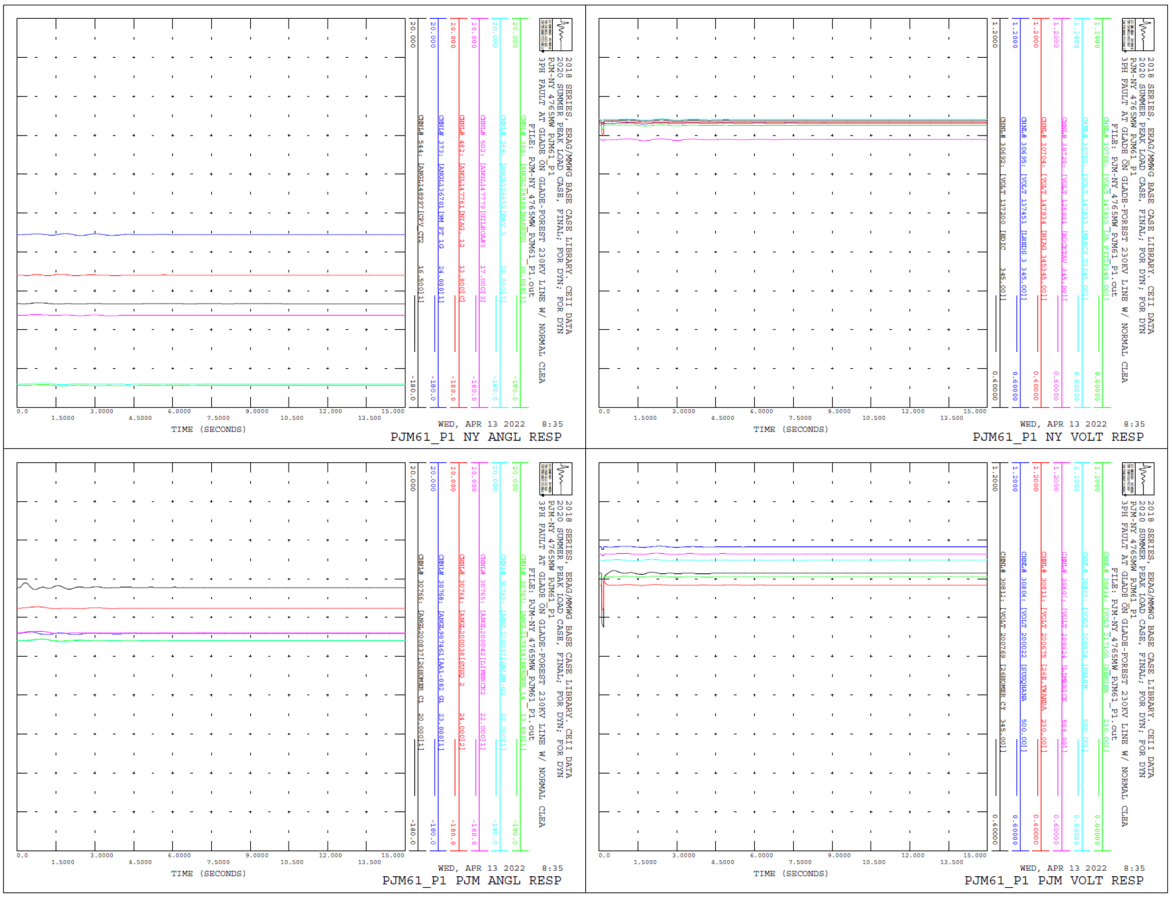


**Figure 251: PJM-NY 4765 MW Contingency PJM61_P1 Angle/Voltage Response Plots**

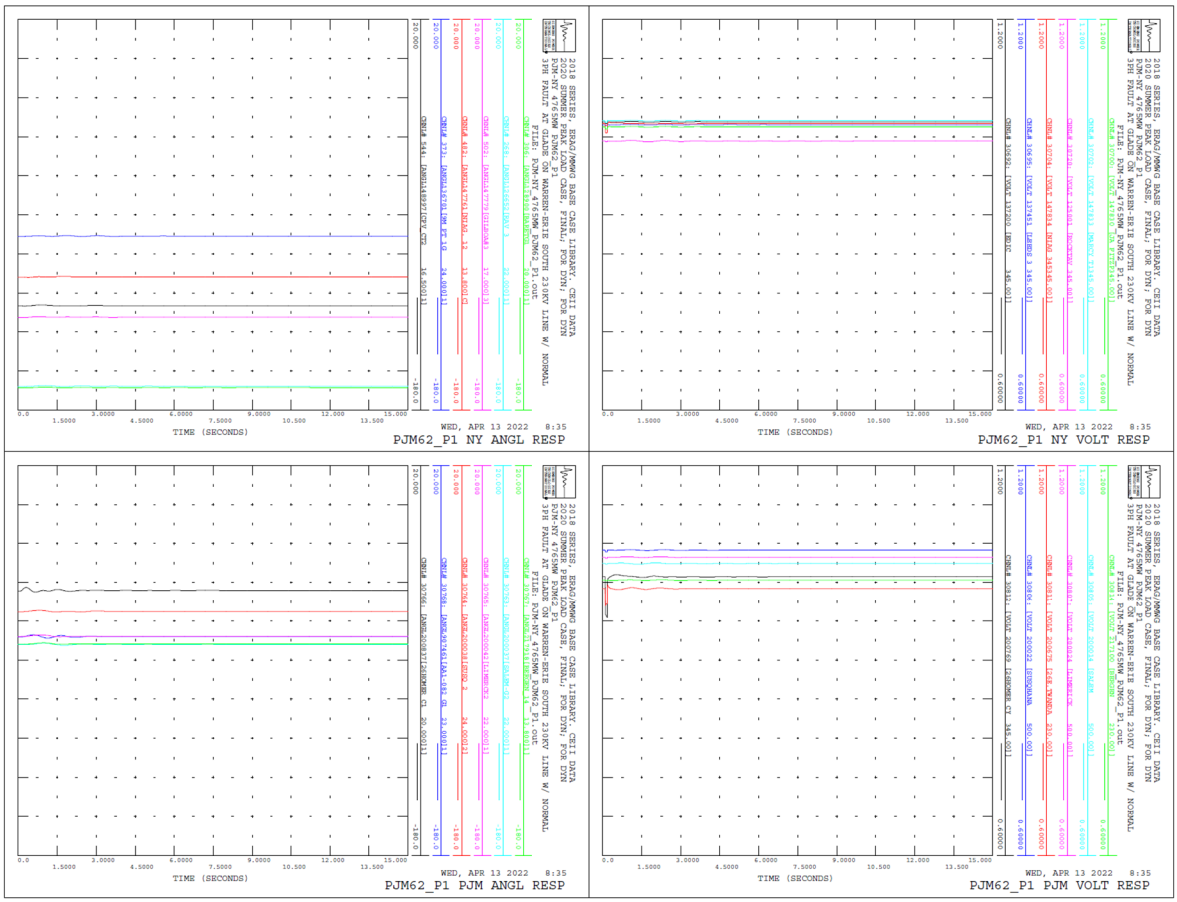


**Figure 252: PJM-NY 4765 MW Contingency PJM62_P1 Angle/Voltage Response Plots**

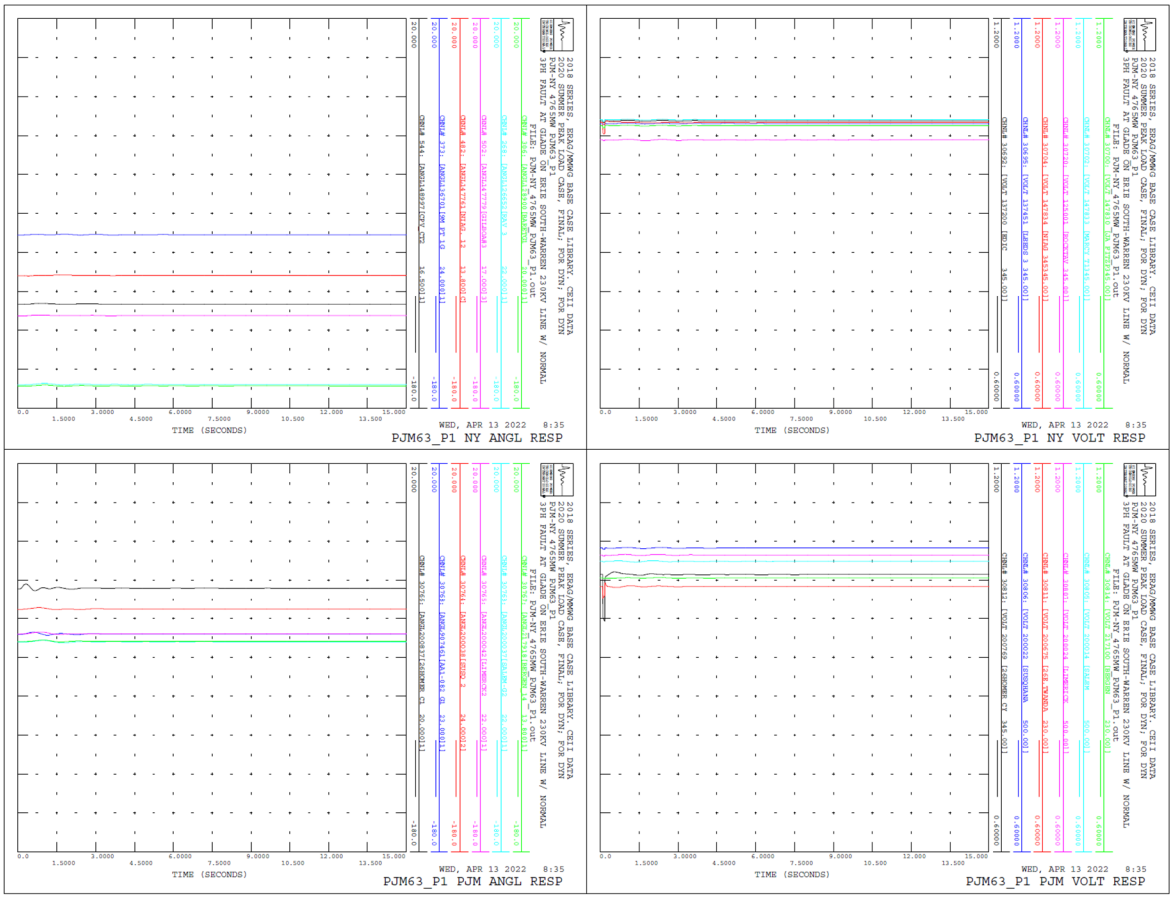


**Figure 253: PJM-NY 4765 MW Contingency PJM63_P1 Angle/Voltage Response Plots**

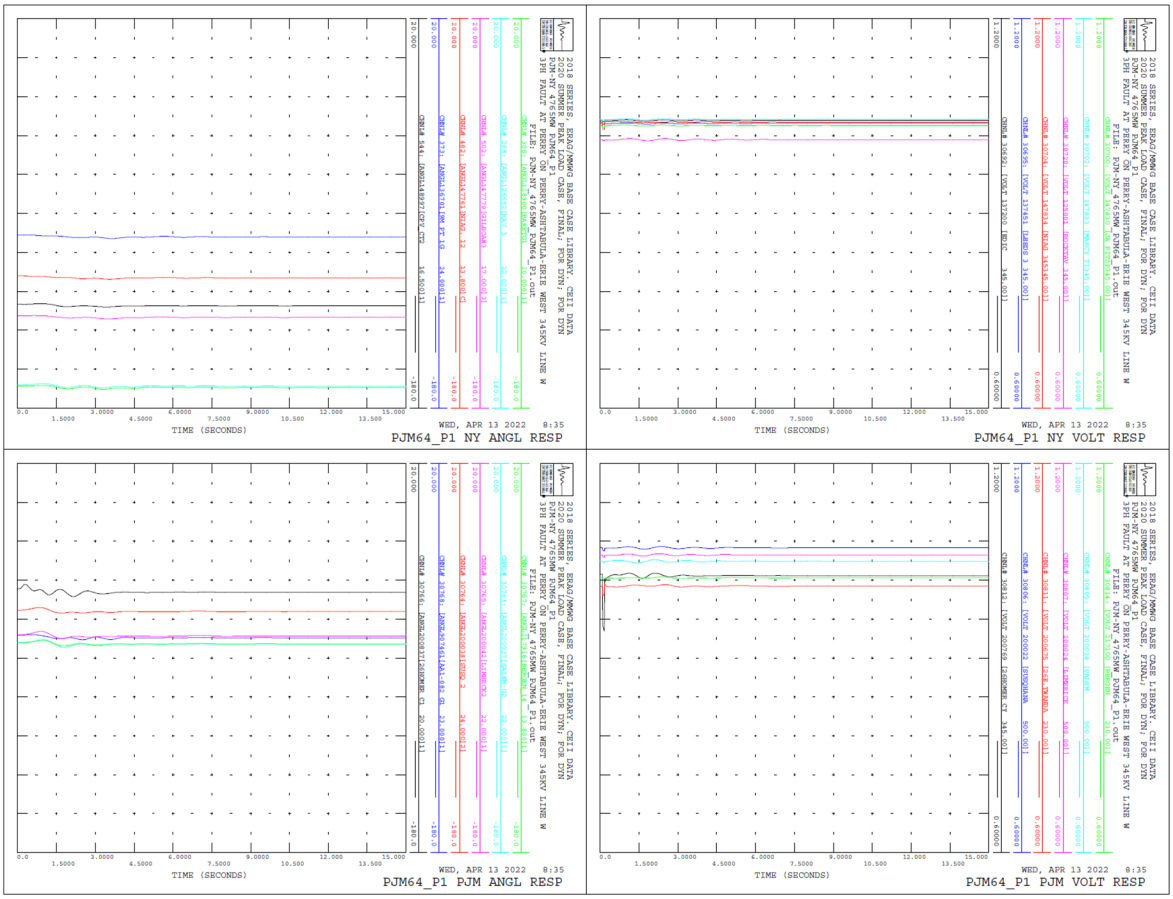


**Figure 254: PJM-NY 4765 MW Contingency PJM64_P1 Angle/Voltage Response Plots**

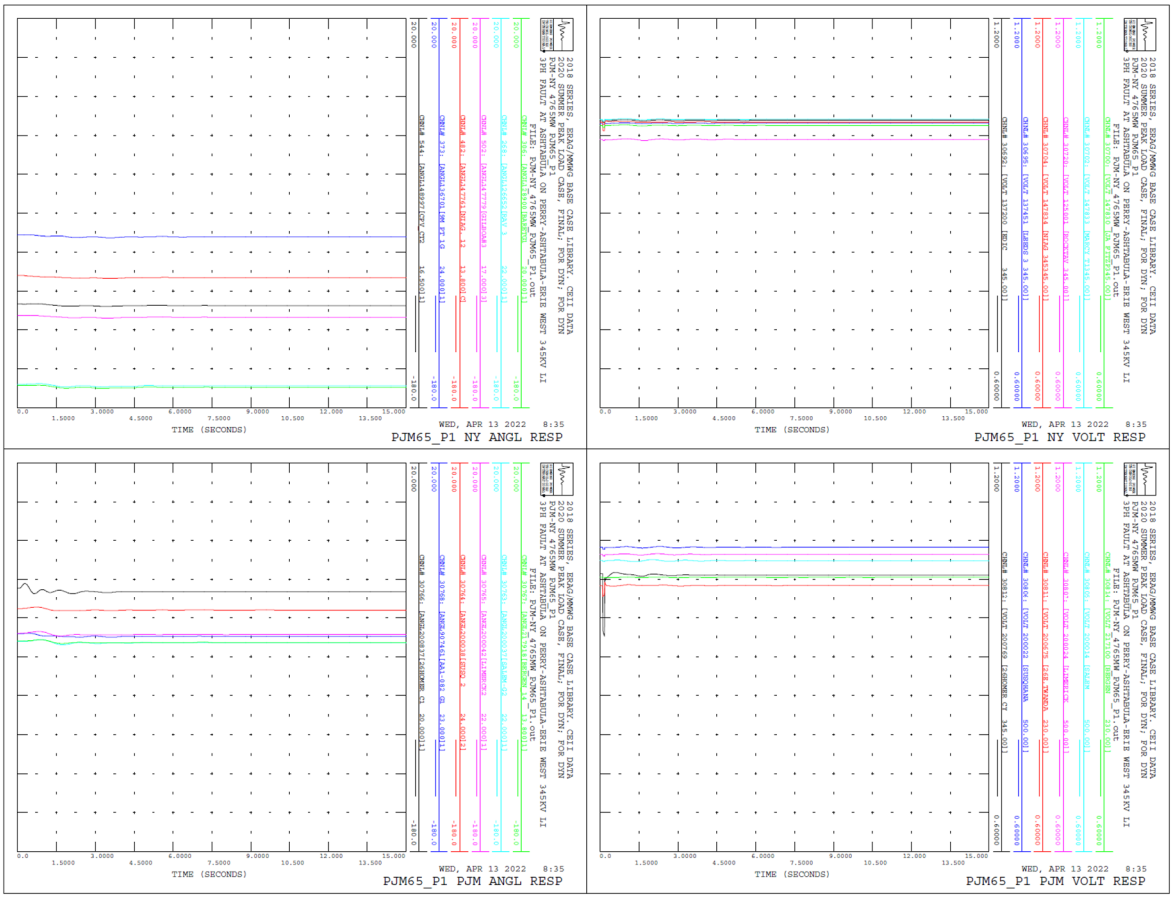


**Figure 255: PJM-NY 4765 MW Contingency PJM65_P1 Angle/Voltage Response Plots**

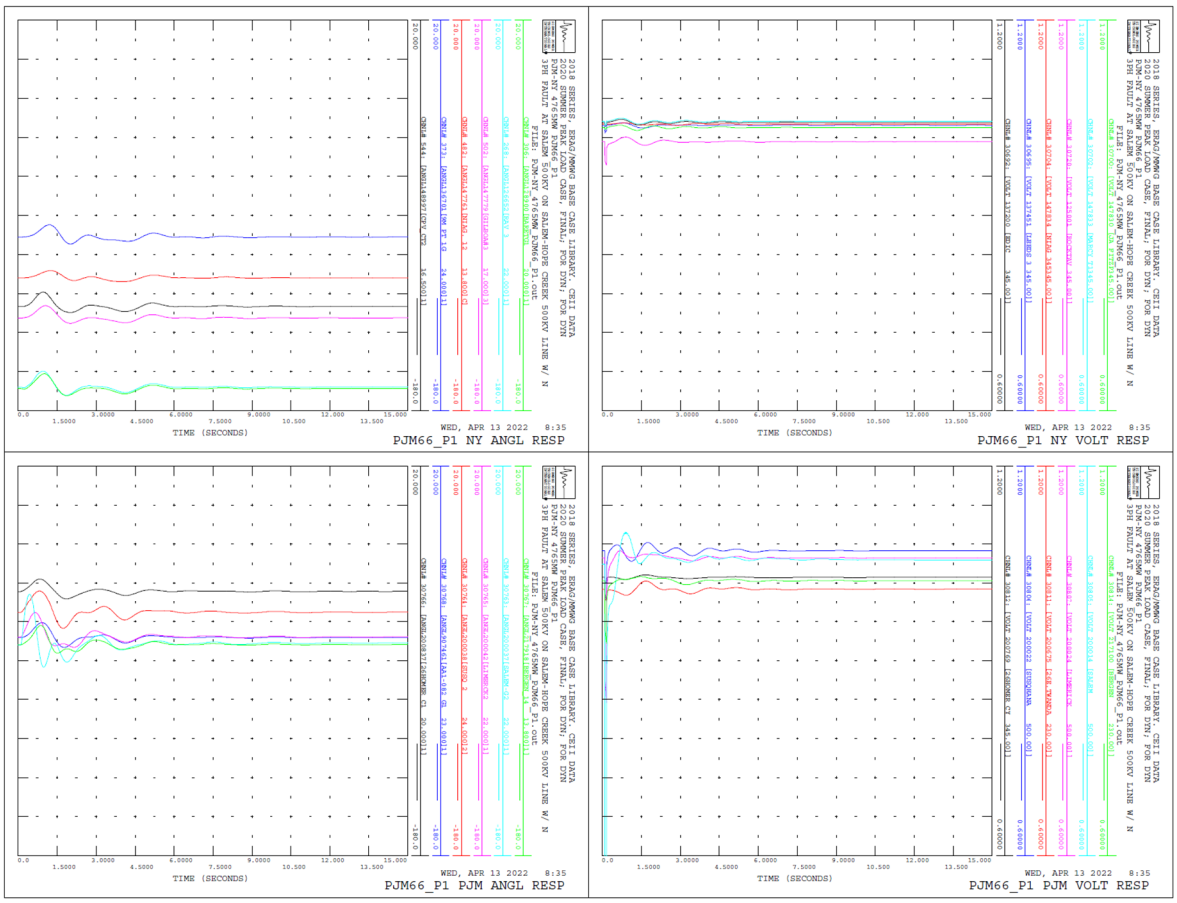


**Figure 256: PJM-NY 4765 MW Contingency PJM66_P1 Angle/Voltage Response Plots**

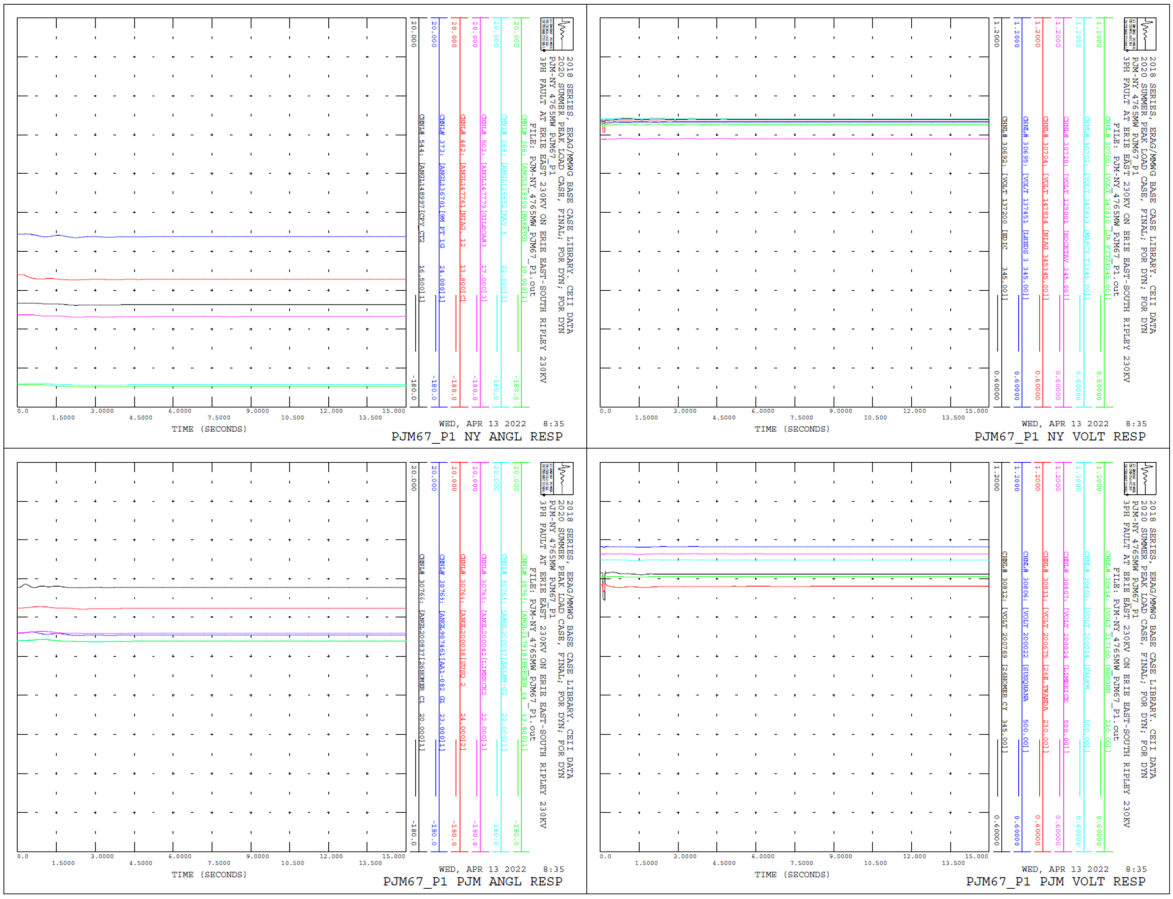


**Figure 257: PJM-NY 4765 MW Contingency PJM67_P1 Angle/Voltage Response Plots**

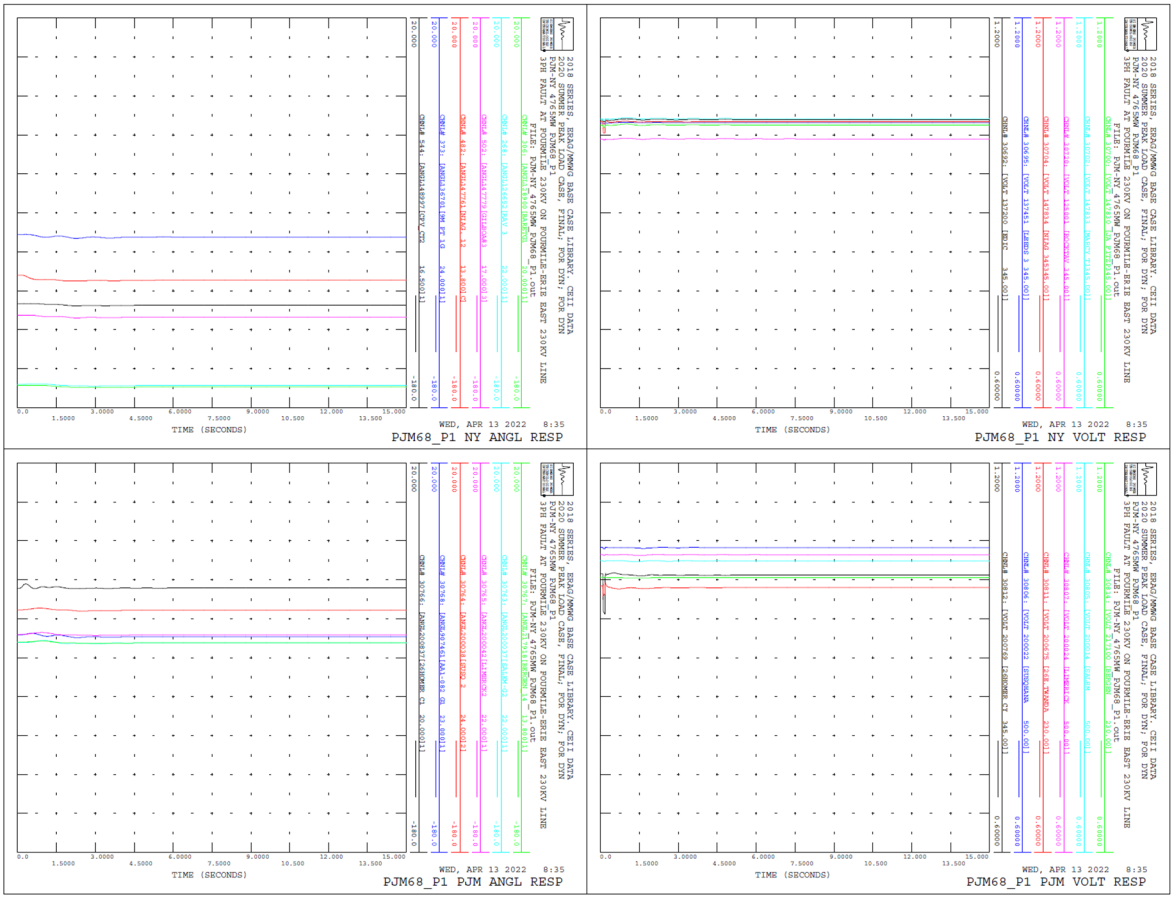


**Figure 258: PJM-NY 4765 MW Contingency PJM68_P1 Angle/Voltage Response Plots**