|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **DUKE ENERGY OHIO** | | | | | | | | | | | | | | |
| **4901:5-5-04(D)(1)(a)** | | | | | | | | | | | | | | |
| **FORM FE-T7: CHARACTERISTICS OF EXISTING TRANSMISSION LINES** | | | | | | | | | | | | | | |
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| **WHOLLY OWNED TRANSMISSION LINES DESIGNED FOR 138 KV OPERATION** | | | | | | | | | | | | | | |
| DEO CIRCUIT NO. | LINE NAME | ORIGIN | TERMINUS | SUMMER MVA | | WINTER MVA | | VOLTAGE | | LENGTH (MILES) | WIDTH (FEET) | SUPPORTING STRUCTURES | NUMBER  OF CIRCUITS | SUBSTATIONS ON THE LINE |
| NORMAL RATING | EMERG. RATING | NORMAL RATING | EMERG. RATING | OPER. LEVEL | DESIGN LEVEL |
| 684 | Elmwood-Lateral | Elmwood | Lateral |  |  |  |  |  |  |  |  |  |  |  |
|  | Section 1 |  |  | 266 | 266 | 333 | 333 | 138 | 138 | 1.34 | 100 | Wood Pole | 1 |  |
|  | Section 2 |  |  | 266 | 266 | 333 | 333 | 138 | 138 | 2.37 | 100 | Steel Tower | 2 |  |
| 689 | Elmwood-Terminal | Elmwood | Terminal | 308 | 308 | 387 | 387 | 138 | 138 | 1.40 | 100 | Wood & Steel Pole | 1 |  |
| 885 | Oakley-Red Bank | Oakley | Red Bank | 324 | 324 | 399 | 399 | 138 | 138 | 1.09 | 100 | Steel Tower | 2 |  |
| 886 | Oakley-Beckjord | Oakley | Beckjord |  |  |  |  |  |  |  |  |  |  |  |
|  | Section 1 | Oakley | Beckjord | 332 | 332 | 417 | 417 | 138 | 138 | 16.45 | 100 | Steel Tower | 2 |  |
|  | Section 2 | Tower No. 150 | Summerside | 301 | 301 | 378 | 378 | 138 | 138 | 1.98 | 50 | Steel & Wood Pole | 1 |  |
| 1180 | Ashland-Whittier | Ashland | Whittier |  |  |  |  |  |  |  |  |  |  |  |
|  | Section 1 |  |  | 268 | 268 | 337 | 337 | 138 | 138 | 0.18 | 100 | Steel Pole | 1 |  |
|  | Section 2 |  |  | 268 | 268 | 337 | 337 | 138 | 138 | 0.31 | 100 | Steel Tower | 2 |  |
|  | Section 3 |  |  | 268 | 268 | 337 | 337 | 138 | 138 | 0.48 | 50 | Steel & Wood Pole | 1 |  |
| 1263 | Mitchell-Brighton | Mitchell | Brighton | 88 | 88 | 121 | 121 | 69 | 138 | 4.2 | 100 | Steel Tower | 2 |  |
| 1269 | Central-Ashland | Tower No. 38 | Tower No. 54 | 97 | 97 | 121 | 121 | 69 | 138 | 2.98 | 100 | Steel Tower | 2 |  |
| 1284 | Mitchell-Terminal | Mitchell | Terminal | 275 | 275 | 345 | 345 | 138 | 138 | 3.61 | 100 | Steel Tower | 2 | Henkel Corp. |
| 1286 | Mitchell-South Fairmount | Mitchell | South Fairmount | 267 | 267 | 337 | 337 | 138 | 138 | 3.88 | 100 | Steel Tower | 2 | Cumminsville |
| 1288 | Mitchell-Central | Mitchell | Central | 267 | 267 | 337 | 337 | 138 | 138 | 2.3 | 100 | Steel Tower | 2 |  |
| 1385 | Charles-West End | Charles | West End | 234 | 267 | 244 | 277 | 138 | 138 | 1.11 | 100 | Underground | 1 |  |
| 1389 | Charles-West End | Charles | West End | 234 | 267 | 244 | 277 | 138 | 138 | 1.12 | 100 | Underground | 1 |  |
| 1581 | South Fairmount-West End | South Fairmount | West End | 268 | 268 | 337 | 337 | 138 | 138 | 4.39 | 100 | Steel Tower | 2 | Metro Sewer Dist., Queensgate |
| 1587 | West End-Crescent | West End | Ohio/Ky. St. Line | 268 | 268 | 337 | 337 | 138 | 138 | 0.3 | 100 | Steel Tower | 1 |  |
| 1681\* | Miami Fort-Greendale  Interconnection – Duke Energy Indiana | Miami Fort | Ohio/Ind. St. Line | 455 | 479 | 520 | 520 | 138 | 138 | 0.86 | 100 | Steel Tower & Wood Pole | 1 |  |
| 1682\* | Miami Fort-Clifty Creek  Interconnection - Ohio Valley Electric Corp. | Miami Fort | Ohio/Ky. St. Line | 129 | 129 | 172 | 172 | 138 | 138 | 0.38 | 100 | Steel Tower | 1 |  |
| 1683 | Miami Fort-Hebron | Ohio/Ky. St. Line | Miami Fort | 238 | 238 | 299 | 299 | 138 | 138 | 0.13 | 100 | Steel Tower | 2 |  |
| 1688 | Miami Fort-MFGT | Miami Fort | Miami Fort GT | 266 | 266 | 333 | 333 | 138 | 138 | 0.34 | 100 | Wood Pole | 1 |  |
| 1689 | Miami Fort-Morgan | Miami Fort | Morgan | 268 | 268 | 337 | 337 | 138 | 138 | 8.16 | 100 | Steel Tower | 2 |  |
| 1762 | Allen-Terminal | Pole No.R17-673 | Terminal |  |  |  |  |  |  |  |  |  |  |  |
|  | Section 1 |  |  | 97 | 97 | 121 | 121 | 69 | 138 | 0.45 | 100 | Steel Tower | 1 |  |
|  | Section 2 |  |  | 97 | 97 | 121 | 121 | 69 | 138 | 1.2 | 100 | Steel & Wood Pole | 1 |  |
| 1782 | Terminal-Glenview | Terminal | Glenview |  |  |  |  |  |  |  |  |  |  |  |
|  | Section 1 |  |  | 264 | 264 | 326 | 326 | 138 | 138 | 5.03 | 100 | Steel Tower | 2 |  |
|  | Section 2 |  |  | 264 | 264 | 326 | 326 | 138 | 138 | 0.6 | 100 | Wood H-Frame | 1 |  |
| 1783 | Terminal-Ebenezer | Terminal | Ebenezer |  |  |  |  |  |  |  |  |  |  |  |
|  | Section 1 |  |  | 266 | 266 | 333 | 333 | 138 | 138 | 9.98 | 100 | Steel Tower | 2 |  |
|  | Section 2 |  |  | 266 | 266 | 333 | 333 | 138 | 138 | 3.64 | 100 | Wood Pole | 1 |  |
|  | Section 3 |  |  | 266 | 266 | 333 | 333 | 138 | 138 | 0.13 | 100 | Wood H-Frame | 1 | Midway |
| 1880 | Beckjord-Silver Grove | Beckjord | Ohio/Ky. St. Line |  |  |  |  |  |  |  |  |  |  |  |
|  | Section 1 |  |  | 291 | 291 | 359 | 359 | 138 | 138 | 1 | 100 | Wood Pole | 1 |  |
|  | Section 2 |  |  | 291 | 291 | 359 | 359 | 138 | 138 | 0.25 | 100 | Steel Tower | 2 |  |
| 1881 | Beckjord-Wilder | Beckjord | Ohio/Ky. St. Line | 272 | 272 | 325 | 334 | 138 | 138 | 0.32 | 100 | Steel Tower | 2 |  |
| 1885 | Beckjord-Tobasco | Beckjord | Tobasco | 332 | 332 | 417 | 417 | 138 | 138 | 5.84 | 100 | Steel Tower | 2 |  |
| 1887 | Beckjord-Pierce | Beckjord | Pierce | 603 | 603 | 757 | 757 | 138 | 138 | 0.38 | 50 | Wood Pole & Steel Tower | 1 |  |
| 1889 | Beckjord-Pierce | Beckjord | Pierce | 603 | 603 | 757 | 757 | 138 | 138 | 0.22 | 100 | Steel Tower | 1 |  |
| 1985 | Dicks Creek-AK Steel | Dicks Creek | AK Steel | 273 | 287 | 337 | 337 | 138 | 138 | 1.61 | 100 | Steel Pole & Steel Tower | 2 |  |
| 2166 | Brighton-Wilder | Brighton | Ohio/Ky. St. Line | 77 | 87 | 100 | 105 | 69 | 138 | 3.65 | 100 | Steel Tower | 2 |  |
| 2381\* | Warren-Clinton County |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Section 1 | Warren | Clinton County | 198 | 198 | 249 | 249 | 138 | 138 | 15.96 | 100 | Wood & Steel H-Frame | 1 |  |
| Section 2  Interconnection - American Electric Power Co. | Clinton County | Structure 494A | 227 | 239 | 297 | 306 | 138 | 138 | 0.22 | 100 | Wood & Steel H-Frame | 1 |  |
| DUKE ENERGY OHIO | | | | | | | | | | | | | | |
| **4901:5-5-04(D)(1)(a)** | | | | | | | | | | | | | | |
| **FORM FE-T7: CHARACTERISTICS OF EXISTING TRANSMISSION LINES** | | | | | | | | | | | | | | |
|  | | | | | | | | | | | | | | |
| **WHOLLY OWNED TRANSMISSION LINES DESIGNED FOR 138 KV OPERATION** | | | | | | | | | | | | | | |
| DEO CIRCUIT NO. | LINE NAME | ORIGIN | TERMINUS | SUMMER MVA | | WINTER MVA | | VOLTAGE | | LENGTH (MILES) | WIDTH (FEET) | SUPPORTING STRUCTURES | NUMBER  OF CIRCUITS | SUBSTATIONS ON THE LINE |
| NORMAL RATING | EMERG. RATING | NORMAL RATING | EMERG. RATING | OPER. LEVEL | DESIGN LEVEL |
| 2862 | Miami Fort GT-Hebron | Miami Fort GT | Ohio/Ky. St. Line | 107 | 119 | 115 | 141 | 69 | 138 | 0.14 | 100 | Steel Tower | 2 |  |
| 2865 | Miami Fort GT-INEOS | Miami Fort GT | Tower No. 30 | 133 | 133 | 166 | 166 | 69 | 138 | 6.39 | 100 | Steel Tower | 2 |  |
| 2986 | Cedarville-Ford | Cedarville | Ford |  |  |  |  |  |  |  |  |  |  |  |
|  | Section 1 |  |  | 298 | 298 | 374 | 374 | 138 | 138 | 5.02 | 100 | Wood Pole | 1 |  |
|  | Section 2 |  |  | 298 | 298 | 374 | 374 | 138 | 138 | 4.86 | 100 | Wood Pole | 1 |  |
| 3263 | Trenton-Air Products | Tower No.1 | Tower No. 17 | 88 | 88 | 110 | 110 | 69 | 138 | 2.77 | 100 | Steel Tower | 2 |  |
| 3281 | Trenton-Collinsville | Trenton | Collinsville | 178 | 178 | 224 | 224 | 138 | 138 | 12.24 | 100 | Steel Tower | 2 | BREC Huston |
| 3284 | Trenton-Todhunter | Trenton | Todhunter | 291 | 291 | 337 | 337 | 138 | 138 | 4.9 | 100 | Wood H-Frame | 1 |  |
| 3881 | Port Union-Summerside |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Section 1 | Port Union | Summerside | 198 | 198 | 249 | 249 | 138 | 138 | 22.74 | 100 | Steel Tower | 2 | Wards Corner |
|  | Section 2 | Tower No. 141 | Cornell | 266 | 266 | 333 | 333 | 138 | 138 | 2.87 | 50 | Wood Pole | 1 | Cornell |
| 3885 | Port Union-Fairfield |  |  |  |  |  |  |  |  |  |  |  | 2 |  |
|  | Section 1 | Port Union | Hall | 301 | 301 | 337 | 337 | 138 | 138 | 5.48 | 100 | Steel Tower | 2 | Provident |
|  | Section 2 | Hall | Fairfield | 198 | 198 | 249 | 249 | 138 | 138 | 1.56 | 100 | Steel Tower | 2 | Hall |
| 3886 | Port Union-Fairfield |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Section 1 | Port Union | Mulhauser | 309 | 349 | 403 | 422 | 138 | 138 | 2.75 | 100 | Steel Tower | 2 | Mulhauser |
|  | Section 2 | Mulhauser | Fairfield | 198 | 198 | 249 | 249 | 138 | 138 | 3.99 | 100 | Steel Tower | 2 |  |
| 3887 | Port Union-Todhunter | Port Union | Todhunter | 302 | 302 | 379 | 379 | 138 | 138 | 9.69 | 100 | Steel Tower | 2 | Millikin |
| 3888 | Port Union-Todhunter | Port Union | Todhunter | 302 | 302 | 379 | 379 | 138 | 138 | 9.69 | 100 | Steel Tower | 2 | Beckett |
| 3889 | Port Union-City of Hamilton | Port Union | City of Hamilton | 298 | 298 | 374 | 374 | 138 | 138 | 4.65 | 100 | Wood Pole | 1 | Seward |
| 3981 | Central-Oakley | Central | Oakley | 205 | 205 | 254 | 254 | 138 | 138 | 2.9 | 100 | Steel Tower | 2 |  |
| 3985 | Central-Ashland | Central | Ashland | 266 | 266 | 333 | 333 | 138 | 138 | 3.43 | 100 | Steel Tower | 2 |  |
| 4187 | Lateral-Red Bank | Lateral | Red Bank | 268 | 268 | 337 | 337 | 138 | 138 | 2.9 | 100 | Steel Tower | 2 |  |
| 4861 | Ivorydale-Terminal | Tower No. 1 | Tower No. 5 | 88 | 88 | 121 | 121 | 69 | 138 | 0.9 | 100 | Steel Tower | 2 |  |
| 5381 | Shaker Run-Rockies Express | Structure 69B | Rockies Express | 486 | 502 | 542 | 556 | 138 | 138 | 0.67 | 50 | Steel Pole | 1 |  |
| 5483 | Foster-Port Union |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Section 1 | Port Union | Montgomery | 198 | 198 | 249 | 249 | 138 | 138 | 9.19 | 100 | Steel Tower | 2 | Dimmick, Montgomery |
|  | Section 2 | Foster | Tower No. 133 | 298 | 298 | 374 | 374 | 138 | 138 | 5.9 | 50 | Wood Pole | 1 | Simpson, Socialville, Twenty Mile |
| 5484 | Foster-Warren | Foster | Warren | 291 | 291 | 359 | 359 | 138 | 138 | 8.7 | 100 | Wood pole | 1 | Maineville, Columbia |
| 5487 | Foster-Remington |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Section 1 | Remington | Montgomery | 198 | 198 | 249 | 249 | 138 | 138 | 13.4 | 100 | Steel Tower | 2 | Montgomery |
|  | Section 2 | Foster | Montgomery | 298 | 298 | 374 | 374 | 138 | 138 | 4.45 | 100 | Wood Pole | 1 | Enyart |
| 5489 | Foster-Cedarville | Foster | Cedarville | 291 | 291 | 359 | 359 | 138 | 138 | 12.23 | 100 | Wood Pole | 1 | Obannonville |
| 5667 | Todhunter-Shaker Run | Todhunter | Structure 645A | 132 | 132 | 163 | 163 | 69 | 138 | 5.14 | 100 | Wood H-Frame | 1 |  |
| 5680 | Todhunter-Warren | Todhunter | Warren | 298 | 298 | 374 | 374 | 138 | 138 | 9.55 | 90 | Steel H-Frame | 1 | Nickel |
| 5682 | Todhunter-Dicks Creek | Todhunter | Dicks Creek | 301 | 301 | 337 | 337 | 138 | 138 | 1.00 | 100 | Steel Pole & Steel Tower | 2 |  |
| 5686 | Todhunter-AK Steel | Todhunter | AK Steel | 273 | 287 | 337 | 337 | 138 | 138 | 2.34 | 100 | Steel Tower | 2 |  |
| 5689 | Todhunter-Garver | Pole 75-02 | Garver | 511 | 511 | 633 | 633 | 138 | 138 | 0.17 | 50 | Steel Pole | 1 |  |
| 5781 | Fairfield-City of Hamilton | Fairfield | City of Hamilton | 298 | 298 | 374 | 374 | 138 | 138 | 6.05 | 100 | Wood Pole | 1 |  |
| 5783 | Fairfield-Morgan | Fairfield | Morgan | 166 | 201 | 221 | 245 | 138 | 138 | 15.71 | 100 | Steel Tower & Steel Pole | 2 |  |
| 5884 | Brown-Eastwood | Brown | Eastwood | 301 | 301 | 378 | 378 | 138 | 138 | 13.0 | 100 | Wood H-Frame | 1 |  |
| 5886 | Brown-Stuart | Brown | Stuart | 275 | 275 | 345 | 345 | 138 | 138 | 21.16 | 100 | Wood H-Frame | 1 |  |
| 5985 | Wilder-West End | Ohio/Ky. St. Line | West End | 277 | 277 | 310 | 310 | 138 | 138 | 0.2 | 100 | Steel Tower | 2 |  |
| 5988 | Wilder-Beckjord | Ohio/Ky. St. Line | Beckjord | 266 | 266 | 333 | 333 | 138 | 138 | 0.37 | 100 | Steel Tower | 2 |  |
| 6365 | Tobasco-Markley | Pole No. 601 | Markley | 97 | 97 | 121 | 121 | 69 | 138 | 1.7 | 100 | Wood Pole | 1 |  |
| 6864 | Miami Fort GT-Ebenezer | Miami Fort GT | Tower No. 30 | 97 | 97 | 121 | 121 | 69 | 138 | 6.39 | 100 | Steel Tower | 2 |  |
| 6885 | Ebenezer-Miami Fort | Ebenezer | Miami Fort |  |  |  |  |  |  |  |  |  |  |  |
|  | Section 1 |  |  | 275 | 275 | 345 | 345 | 138 | 138 | 10.26 | 100 | Steel Tower | 2 |  |
|  | Section 2 |  |  | 266 | 266 | 333 | 333 | 138 | 138 | 4.92 | 100 | Wood Pole | 1 |  |
| 6984 | Summerside-Beckjord | Summerside | Beckjord | 302 | 302 | 337 | 337 | 138 | 138 | 10.44 | 100 | Steel Tower | 2 |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **DUKE ENERGY OHIO** | | | | | | | | | | | | | | |
| **4901:5-5-04(D)(1)(a)** | | | | | | | | | | | | | | |
| **FORM FE-T7: CHARACTERISTICS OF EXISTING TRANSMISSION LINES** | | | | | | | | | | | | | | |
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| **WHOLLY OWNED TRANSMISSION LINES DESIGNED FOR 138 KV OPERATION** | | | | | | | | | | | | | | |
| DEO CIRCUIT NO. | LINE NAME | ORIGIN | TERMINUS | SUMMER MVA | | WINTER MVA | | VOLTAGE | | LENGTH (MILES) | WIDTH (FEET) | SUPPORTING STRUCTURES | NUMBER  OF CIRCUITS | SUBSTATIONS ON THE LINE |
| NORMAL RATING | EMERG. RATING | NORMAL RATING | EMERG. RATING | OPER. LEVEL | DESIGN LEVEL |
| 7284 | Glenview-Miami Fort | Glenview | Miami Fort |  |  |  |  |  |  |  |  |  |  |  |
|  | Section 1 |  |  | 264 | 264 | 326 | 326 | 138 | 138 | 0.6 | 100 | Wood H-Frame | 1 |  |
|  | Section 2 |  |  | 275 | 275 | 345 | 345 | 138 | 138 | 15.07 | 100 | Steel Tower | 2 | Kleeman, North Bend |
|  | Section 3 |  |  | 176 | 176 | 243 | 243 | 138 | 138 | 0.12 | 100 | Wood H-Frame | 1 | Midway |
| 7481 | Red Bank-Terminal |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Section 1 | Tower 117 | Cornell | 266 | 266 | 333 | 333 | 138 | 138 | 8.79 | 100 | Wood Pole | 1 | Deer Park |
|  | Section 2 | Pole 1493 | Cooper | 266 | 266 | 333 | 333 | 138 | 138 | 1.17 | 50 | Wood Pole | 1 | Cooper |
| 7484 | Red Bank-Ashland | Red Bank | Ashland |  |  |  |  |  |  |  |  |  |  |  |
|  | Section 1 |  |  | 332 | 332 | 417 | 417 | 138 | 138 | 0.96 | 100 | Steel Tower | 2 |  |
|  | Section 2 |  |  | 408 | 408 | 513 | 513 | 138 | 138 | 0.12 | 100 | Wood Pole | 1 |  |
|  | Section 3 |  |  | 238 | 298 | 238 | 298 | 138 | 138 | 4.24 | 100 | Underground | 1 |  |
| 7489 | Red Bank-Tobasco | Red Bank | Tobasco |  |  |  |  |  |  |  |  |  |  |  |
|  | Section 1 |  |  | 332 | 332 | 417 | 417 | 138 | 138 | 9.64 | 100 | Steel Tower | 2 |  |
|  | Section 2 |  |  | 332 | 332 | 417 | 417 | 138 | 138 | 0.07 | 100 | Wood Pole | 1 |  |
| 7581 | Garver-Rockies Express |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Section 1 | Garver | Pole 75-01 | 516 | 582 | 672 | 704 | 138 | 138 | 0.2 | 100 | Steel Pole | 1 |  |
|  | Section 2 | Structure 69B | Rockies Express | 516 | 582 | 672 | 704 | 138 | 138 | 0.63 | 50 | Steel Pole | 1 |  |
| 7582 | Garver-Carlisle |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Section 1 | Garver | Carlisle | 298 | 298 | 374 | 374 | 138 | 138 | 9.9 | 50 | Wood & Steel Pole | 1 | Union |
|  | Section 2 | Pole 221 | Rockies Express | 301 | 301 | 378 | 378 | 138 | 138 | 1.46 | 50 | Wood Pole | 1 | Rockies Express |
| 7583 | Garver-AK Steel Sta. 606 | Garver | AK Steel Sta. 606 | 291 | 291 | 359 | 359 | 138 | 138 | 1.17 | 100 | Steel Pole | 1 |  |
| 8281 | Rochelle-Whittier | Rochelle | Whittier | 289 | 289 | 289 | 289 | 138 | 138 | 1.2 | 50 | Underground | 1 |  |
| 8283 | Rochelle-Charles | Rochelle | Charles | 269 | 282 | 307 | 317 | 138 | 138 | 2.38 | 100 | Underground | 1 |  |
| 8286 | Rochelle-Terminal | Rochelle | Terminal |  |  |  |  |  |  |  |  |  |  |  |
|  | Section 1 |  |  | 275 | 275 | 345 | 345 | 138 | 138 | 3.56 | 100 | Steel Tower | 2 |  |
|  | Section 2 |  |  | 275 | 275 | 345 | 345 | 138 | 138 | 1.25 | 100 | Wood Pole | 1 |  |
|  | Section 3 |  |  | 268 | 282 | 307 | 317 | 138 | 138 | 1.32 | 100 | Underground | 1 |  |
| 8368 | Yankee-Manchester | Tower No. 17 | Tower No. 20 | 97 | 97 | 121 | 121 | 69 | 138 | 0.55 | 100 | Steel Tower | 2 |  |
| 8481 | Eastwood-Half Acre | Eastwood | Half Acre | 298 | 298 | 374 | 374 | 138 | 138 | 4.98 | 100 | Wood Pole | 1 |  |
| 8881\* | Hillcrest-Innergex  Interconnection – Innergex Solar | Hillcrest | Innergex Solar switch no. 89-T | 286 | 286 | 286 | 286 | 138 | 138 | 0.02 | 100 | Steel pole | 1 |  |
| 8887 | Hillcrest-Eastwood | Hillcrest | Eastwood | 306 | 306 | 382 | 382 | 138 | 138 | 9.63 | 50 | Wood pole | 1 | SCP Eastwood |
| 9085\* | Collinsville-College Corner  Interconnection - American Electric Power Co. | Collinsville | Ohio/Indiana State Line | 178 | 178 | 224 | 224 | 138 | 138 | 11.99.06 | 100 | Steel Tower & Steel Pole | 2 |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 9482 | Remington-Beckjord |  |  |  |  |  |  |  |  |  |  |  |  | Feldman |
|  | Section 1 | Remington | Feldman | 198 | 198 | 249 | 249 | 138 | 138 | 5.40 | 100 | Steel Tower | 2 | Feldman |
|  | Section 2 | Feldman | Beckjord | 302 | 302 | 337 | 337 | 138 | 138 | 13.69 | 100 | Steel Tower | 2 |  |
| 9782 | Willey-Fairfield | Willey | Fairfield | 198 | 198 | 249 | 249 | 138 | 138 | 8.1 | 100 | Steel Tower | 2 |  |
| 9784 | Willey-Miami Fort | Willey | Miami Fort | 198 | 198 | 249 | 249 | 138 | 138 | 14.95 | 100 | Steel Tower | 2 |  |
| 9787 | Willey-Terminal |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Section 1 | Willey | Mapleknoll | 308 | 308 | 387 | 387 | 138 | 138 | 5.68 | 100 | Wood & Steel H-Frame | 1 | Mapleknoll |
|  | Section 2 | Mapleknoll | Tower P17-X1-5 | 266 | 266 | 333 | 333 | 138 | 138 | 11.71 | 100 | Wood & Steel Pole | 1 | Mt. Healthy, Finneytown |
|  | Section 3 | Tower P17-X1-5 | Terminal | 266 | 266 | 333 | 333 | 138 | 138 | 0.5 | 100 | Steel Tower | 2 |  |
| 13803\* | Hutchings-College Corner |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Section 1  Interconnection - AES Ohio | Structure 1101 | Trenton | 198 | 198 | 249 | 249 | 138 | 138 | 4.91 | 100 | Wood H-Frame | 1 |  |
|  | Section 2  Interconnection - American Electric Power Co. | Trenton | Tower 129 | 198 | 198 | 249 | 249 | 138 | 138 | 24.06 | 100 | Steel Tower | 2 |  |
| 22685 | Ford Batavia-Half Acre | Ford Batavia | Half Acre | 298 | 298 | 374 | 374 | 138 | 138 | 1.53 | 100 | Wood & Steel Pole | 1 |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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| **DUKE ENERGY OHIO** | | | | | | | | | | | | | | |
| **4901:5-5-04(D)(1)(a)** | | | | | | | | | | | | | | |
| **FORM FE-T7: CHARACTERISTICS OF EXISTING TRANSMISSION LINES** | | | | | | | | | | | | | | |
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| **WHOLLY OWNED TRANSMISSION LINES DESIGNED FOR 345 KV OPERATION** | | | | | | | | | | | | | | |
| DEO CIRCUIT NO. | LINE NAME | ORIGIN | TERMINUS | SUMMER MVA | | WINTER MVA | | VOLTAGE | | LENGTH (MILES) | WIDTH (FEET) | SUPPORTING STRUCTURES | NUMBER  OF CIRCUITS | SUBSTATIONS ON THE LINE |
| NORMAL RATING | EMERG. RATING | NORMAL RATING | EMERG. RATING | OPER. LEVEL | DESIGN LEVEL |
| 4502 | Pierce-Foster | Pierce | Foster |  |  |  |  |  |  |  |  |  |  |  |
|  | Section 1 |  |  | 1211 | 1211 | 1499 | 1499 | 345 | 345 | 23.38 | 150 | Steel Tower | 2 |  |
|  | Section 2 |  |  | 1211 | 1211 | 1499 | 1499 | 345 | 345 | 0.57 | 150 | Steel Tower | 1 |  |
| 4504\* | Miami Fort-Tanners Creek  Interconnection - American Electric Power Co. | Miami Fort | Ohio/Ky. St. Line | 2403 | 2403 | 2604 | 2604 | 345 | 345 | 0.32 | 150 | Steel Tower | 2 |  |
| 4508 | Port Union-Foster | Port Union | Foster |  |  |  |  |  |  |  |  |  |  |  |
|  | Section 1 |  |  | 1509 | 1509 | 1894 | 1894 | 345 | 345 | 11.66 | 150 | Steel Tower | 2 |  |
|  | Section 2 |  |  | 1509 | 1509 | 1894 | 1894 | 345 | 345 | 0.24 | 150 | Steel Tower | 1 |  |
| 4511\* | Stuart-Hillcrest  Interconnection - AES Ohio | Stuart | Hillcrest | 1544 | 1544 | 1939 | 1939 | 345 | 345 | 32.61 | 150 | Steel Tower | 1 |  |
| 4513 | Terminal-Port Union | Terminal | Port Union |  |  |  |  |  |  |  |  |  |  |  |
|  | Section 1 |  |  | 1509 | 1509 | 1894 | 1894 | 345 | 345 | 0.46 | 150 | Steel Tower | 1 |  |
|  | Section 2 |  |  | 1509 | 1509 | 1894 | 1894 | 345 | 345 | 9.65 | 150 | Steel Tower | 2 |  |
| 4514 | Miami Fort-Terminal |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Section 1 | Terminal | Ohio/Ky. St. Line | 1509 | 1509 | 1894 | 1894 | 345 | 345 | 14.3 | 150 | Steel Tower | 2 |  |
|  | Section 2 | Miami Fort | Ohio/Ky. St. Line | 1509 | 1509 | 1894 | 1894 | 345 | 345 | 0.32 | 150 | Steel Tower | 2 |  |
| 4515 | Foster-Garver | Foster | Garver | 1509 | 1509 | 1894 | 1894 | 345 | 345 | 15.79 | 150 | Steel Tower | 2 |  |
| 4516 | East Bend-Terminal | Ohio/Ky. St. Line | Terminal | 1279 | 1279 | 1583 | 1583 | 345 | 345 | 14.84 | 150 | Steel Tower | 2 |  |
| 4524\* | Foster-Sugarcreek  Interconnection - AES Ohio | Foster | Tower 1021A | 1263 | 1455 | 1750 | 1795 | 345 | 345 | 3.2 | 150 | Steel Tower | 2 |  |
| 4541\* | Spurlock-Meldahl Dam  Interconnection - East Kentucky Power Co. | Tower #36 | Meldahl Dam | 1274 | 1421 | 1847 | 1894 | 345 | 345 | 21.78 | 150 | Steel Tower | 1 |  |
| 4544 | Zimmer-Port Union | Zimmer | Port Union |  |  |  |  |  |  |  |  |  |  |  |
|  | Section 1 |  |  | 1492 | 1492 | 1873 | 1873 | 345 | 345 | 35.88 | 150 | Steel Tower | 2 |  |
|  | Section 2 |  |  | 1492 | 1492 | 1873 | 1873 | 345 | 345 | 10.03 | 150 | Steel Tower | 1 |  |
| 4545 | Zimmer-Red Bank |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Section 1 | Zimmer | Ohio/Ky. St. Line | 1664 | 1664 | 2089 | 2089 | 345 | 345 | 0.43 | 150 | Steel Tower | 1 |  |
|  | Section 2 | Red Bank | Tower No. 24 | 1509 | 1509 | 1894 | 1894 | 345 | 345 | 10.58 | 150 | Steel Tower | 2 |  |
|  | Section 3 | Tower No. 23 | Ohio/Ky. St. Line | 1509 | 1509 | 1894 | 1894 | 345 | 345 | 0.8 | 150 | Steel Tower | 1 |  |
| 4546 | Red Bank-Terminal | Red Bank | Terminal |  |  |  |  |  |  |  |  |  |  |  |
|  | Section 1 |  |  | 1509 | 1509 | 1894 | 1894 | 345 | 345 | 5.75 | 150 | Steel Pole | 2 |  |
|  | Section 2 |  |  | 1509 | 1509 | 1894 | 1894 | 345 | 345 | 0.9 | 150 | Steel Tower | 2 |  |
| 4561 | Woodsdale-Todhunter | Woodsdale | Todhunter | 1509 | 1509 | 1894 | 1894 | 345 | 345 | 4.68 | 150 | Steel Tower | 2 |  |
| 4562 | Woodsdale-Todhunter | Woodsdale | Todhunter | 1509 | 1509 | 1894 | 1894 | 345 | 345 | 4.68 | 150 | Steel Tower | 2 |  |
| 34569 | Hillcrest-Foster | Hillcrest | Foster | 1455 | 1455 | 1795 | 1795 | 345 | 345 | 26.36 | 150 | Steel Tower | 1 |  |
| 34576 | Zimmer-Meldahl Dam | Zimmer | Meldahl Dam |  |  |  |  |  |  |  |  |  |  |  |
|  | Section 1 |  |  | 1509 | 1509 | 1894 | 1894 | 345 | 345 | 6.57 | 150 | Steel Tower | 1 |  |
|  | Section 2 |  |  | 1509 | 1509 | 1894 | 1894 | 345 | 345 | 0.78 | 150 | Steel Tower | 2 |  |
| 34582 | Garver-Todhunter | Garver | Todhunter | 1509 | 1509 | 1894 | 1894 | 345 | 345 | 1.79 | 150 | Steel Tower | 2 |  |
| 4591\* | Miami Fort-West Milton  Interconnection - AES Ohio | Miami Fort | Tower No. 173 |  |  |  |  |  |  |  |  |  |  |  |
|  | Section 1 |  |  | 1195 | 1195 | 1195 | 1195 | 345 | 345 | 33.25 | 150 | Steel Tower | 2 |  |
|  | Section 2 |  |  | 1195 | 1195 | 1195 | 1195 | 345 | 345 | 1.37 | 150 | Steel Tower | 1 |  |
| 4592 | Miami Fort-Woodsdale | Miami Fort | Woodsdale |  |  |  |  |  |  |  |  |  |  |  |
|  | Section 1 |  |  | 1290 | 1457 | 1682 | 1760 | 345 | 345 | 33.25 | 150 | Steel Tower | 2 |  |
|  | Section 2 |  |  | 1290 | 1457 | 1682 | 1760 | 345 | 345 | 4.82 | 150 | Steel Tower | 1 |  |
| 34598\* | Foster-Bath  Interconnection - AES Ohio | Foster | Tower 1021 | 1263 | 1455 | 1684 | 1795 | 345 | 345 | 3.2 | 150 | Steel Tower | 2 |  |

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| **DUKE ENERGY OHIO** | | | | | | | | | | | | | | |
| **4901:5-5-04(D)(1)(a)** | | | | | | | | | | | | | | |
| **FORM FE-T7: CHARACTERISTICS OF EXISTING TRANSMISSION LINES** | | | | | | | | | | | | | | |
|  | | | | | | | | | | | | | | |
| **WHOLLY OWNED TRANSMISSION LINES DESIGNED FOR 345 KV OPERATION** | | | | | | | | | | | | | | |
| DEO CIRCUIT NO. | LINE NAME | ORIGIN | TERMINUS | SUMMER MVA | | WINTER MVA | | VOLTAGE | | LENGTH (MILES) | WIDTH (FEET) | SUPPORTING STRUCTURES | NUMBER  OF CIRCUITS | SUBSTATIONS ON THE LINE |
| NORMAL RATING | EMERG. RATING | NORMAL RATING | EMERG. RATING | OPER. LEVEL | DESIGN LEVEL |
| 1883 | Beckjord-Red Bank | Beckjord | Red Bank |  |  |  |  |  |  |  |  |  |  |  |
|  | Section 1 |  |  | 332 | 332 | 417 | 417 | 138 | 345 | 0.89 | 150 | Steel Tower | 1 |  |
|  | Section 2 |  |  | 332 | 332 | 417 | 417 | 138 | 345 | 13.82 | 150 | Steel Tower | 2 | Newtown |
| 4683 | Evendale-Port Union | Evendale | Port Union |  |  |  |  |  |  |  |  |  |  |  |
|  | Section 1 |  |  | 394 | 394 | 486 | 486 | 138 | 345 | 0.52 | 150 | Steel Tower | 1 |  |
|  | Section 2 |  |  | 394 | 394 | 486 | 486 | 138 | 345 | 5.48 | 150 | Steel Tower | 2 | Kemper |
| 4685 | Evendale-Terminal | Evendale | Terminal |  |  |  |  |  |  |  |  |  |  |  |
|  | Section 1 |  |  | 394 | 394 | 487 | 487 | 138 | 345 | 0.21 | 150 | Steel Tower | 1 |  |
|  | Section 2 |  |  | 394 | 394 | 487 | 487 | 138 | 345 | 4.02 | 150 | Steel Tower | 2 |  |
| 5381 | Shaker Run-Rockies Express | Structure 69A | Rockies Express | 486 | 502 | 542 | 556 | 138 | 345 | 2.62 | 150 | Steel Tower | 2 |  |
| 5485 | Foster-Shaker Run | Foster | Shaker Run | 301 | 301 | 378 | 378 | 138 | 345 | 10.29 | 150 | Steel Tower | 2 | Park, Bethany |
| 5689 | Todhunter-Garver | Todhunter | Pole 75-02 | 511 | 511 | 633 | 633 | 138 | 345 | 1.75 | 150 | Steel Tower | 2 |  |
| 7481 | Red Bank-Terminal | Red Bank | Terminal | 406 | 408 | 413 | 413 | 138 | 345 | 5.72 | 150 | Steel Tower & Steel Pole | 2 | Golf Manor |
| 7581 | Garver-Rockies Express | Pole 75-01 | Structure 69B | 516 | 582 | 672 | 704 | 138 | 345 | 0.93 | 150 | Steel Tower | 2 |  |