



Filing Receipt

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Control Number - 52946

ItemNumber - 9

Service Quality Report
To The
Public Utility Commission of Texas
In Accordance With
Substantive Rule §25.81
2021 Reporting Year

AEP Southwestern Electric Power

Project 52946

Service Quality Report to the Public Utility Commission of Texas

AEP Southwestern Electric Power

| System SAIFI | Annual | Jan | Feb | March | April | May | June | July | Aug | Sept | Oct | Nov | Dec |
|--------------------------------------|---------------|------------|------------|--------------|--------------|------------|-------------|-------------|------------|-------------|------------|------------|------------|
| Forced 2021 | 1.68330 | 0.06727 | 0.08692 | 0.15471 | 0.15616 | 0.22915 | 0.24529 | 0.15857 | 0.12371 | 0.07467 | 0.10498 | 0.13095 | 0.15092 |
| Scheduled 2021 | 0.08947 | 0.00577 | 0.00521 | 0.00874 | 0.01169 | 0.00949 | 0.00731 | 0.01244 | 0.00533 | 0.00740 | 0.00374 | 0.00730 | 0.00503 |
| Outside Causes 2021 | 0.52951 | 0.02104 | 0.04102 | 0.04967 | 0.00732 | 0.15058 | 0.02315 | 0.03176 | 0.06115 | 0.09691 | 0.00004 | 0.02140 | 0.02548 |
| Major Events 2021 | 0.78024 | 0.26307 | 0.26028 | | 0.06759 | 0.08909 | | | | | 0.10019 | | |

Service Quality Report to the Public Utility Commission of Texas

AEP Southwestern Electric Power

| System SAIDI | Annual | Jan | Feb | March | April | May | June | July | Aug | Sept | Oct | Nov | Dec |
|-----------------------|---------------|------------|------------|--------------|--------------|------------|-------------|-------------|------------|-------------|------------|------------|------------|
| Forced | | | | | | | | | | | | | |
| 2021 | 214.31456 | 10.05099 | 30.73896 | 19.54932 | 15.94453 | 29.52962 | 23.80549 | 18.47703 | 12.57610 | 8.54814 | 14.77198 | 15.57098 | 14.75141 |
| Scheduled | | | | | | | | | | | | | |
| 2021 | 14.53831 | 0.86147 | 0.73057 | 1.40726 | 1.53183 | 1.45865 | 1.56261 | 1.32641 | 0.82385 | 0.87263 | 0.67793 | 1.42998 | 1.85512 |
| Outside Causes | | | | | | | | | | | | | |
| 2021 | 50.96748 | 1.38426 | 3.16840 | 7.93749 | 0.45403 | 10.04423 | 1.83099 | 3.22402 | 7.76630 | 11.36076 | 0.00332 | 1.42536 | 2.36833 |
| Major Events | | | | | | | | | | | | | |
| 2021 | 326.85966 | 191.52814 | 44.01776 | | 31.48987 | 21.79465 | | | | | 38.02923 | | |

Service Quality Report to the Public Utility Commission of Texas

Distribution Feeder Indices for Forced Interruptions

List all Distribution Feeders on Texas System

Total Number of Feeders

With 10 or more Customers

| |
|------------|
| 276 |
|------------|

Add or Delete Rows as Necessary

AEP Southwestern Electric Power

| 2021 SAIFI Ranking | 2020 SAIFI Ranking | Substation Identification | Feeder Identification | Number of Customers | 2021 SAIFI Value |
|--------------------|--------------------|---------------------------|-----------------------|---------------------|------------------|
| 1 | 13 | HARRISON ROAD | 9611880 | 2,077 | 8.30380 |
| 2 | 8 | LONDON | 965930 | 480 | 7.34167 |
| 3 | 39 | FRIARS SWITCH | 965780 | 149 | 7.30201 |
| 4 | 92 | NORTH LANEVILLE | 9610660 | 484 | 6.57231 |
| 5 | 5 | LONDON | 965940 | 348 | 5.66092 |
| 6 | 28 | WASKOM | 967890 | 581 | 5.55077 |
| 7 | 193 | NORTH MARSHALL | 967600 | 703 | 5.25036 |
| 8 | 7 | FRIARS SWITCH | 965790 | 419 | 5.24821 |
| 9 | 88 | PITTSBURG | 965450 | 1,215 | 5.23868 |
| 10 | 57 | LOUISIANA PACIFIC | 962260 | 741 | 5.18084 |
| 11 | 60 | LONGVIEW HEIGHTS | 961B40 | 1,947 | 5.01181 |
| 12 | 225 | PETTY | 968370 | 184 | 4.94022 |
| 13 | 176 | WASKOM | 968180 | 630 | 4.79683 |
| 14 | 37 | WEST MT PLEASANT | 961L00 | 180 | 4.55000 |
| 15 | 46 | FRIARS SWITCH | 965920 | 246 | 4.47561 |
| 16 | 173 | NORTH MARSHALL | 968660 | 646 | 4.43808 |
| 17 | 40 | NEW GLADEWATER | 9611980 | 1,092 | 4.40751 |
| 18 | 185 | WEST MT PLEASANT | 961G70 | 113 | 4.34513 |
| 19 | 191 | TAYLOR STREET | 967920 | 386 | 4.17617 |
| 20 | 125 | SOUTHEAST MARSHALL | 9610180 | 1,452 | 4.13154 |
| 21 | 160 | RICHMOND ROAD | 966980 | 1,465 | 4.09966 |
| 22 | 19 | LONGVIEW | 965520 | 1,187 | 3.98652 |
| 23 | 186 | TURNERTOWN | 961B10 | 50 | 3.88000 |
| 24 | 81 | CLARKSVILLE | 969200 | 667 | 3.83958 |
| 25 | 190 | SPRINGHILL | 968190 | 832 | 3.81370 |
| 26 | 170 | EVENSIDE | 961G00 | 926 | 3.74838 |
| 27 | 101 | NEW GLADEWATER | 9611970 | 1,737 | 3.66724 |
| 28 | 154 | RODESSA | 9617310 | 259 | 3.65637 |
| 29 | 49 | WHITNEY | 961480 | 1,614 | 3.48327 |
| 30 | 256 | SOUTHEAST MARSHALL | 9610170 | 1,109 | 3.47881 |
| 31 | 87 | ATLANTA | 962140 | 1,735 | 3.47608 |
| 32 | 155 | MARSHALL 69KV | 96580 | 848 | 3.44575 |
| 33 | 177 | DEKALB | 962440 | 535 | 3.43738 |
| 34 | 233 | DEKALB | 962430 | 888 | 3.42117 |
| 35 | 143 | 39TH STREET | 961V70 | 51 | 3.41176 |
| 36 | 32 | GILMER | 962450 | 947 | 3.38860 |
| 37 | 102 | GREGGTON | 961V20 | 1,607 | 3.30989 |
| 38 | 44 | SABINE | 965120 | 97 | 3.27835 |
| 39 | 266 | MARSHALL 69KV | 96590 | 733 | 3.19372 |
| 40 | 107 | SUPERIOR | 963750 | 39 | 3.15385 |
| 41 | 217 | POYNTER | 969550 | 290 | 3.13103 |
| 42 | 207 | KILGORE | 967850 | 113 | 2.99115 |
| 43 | 99 | MINEOLA | 967130 | 1,015 | 2.98030 |

Service Quality Report to the Public Utility Commission of Texas

AEP Southwestern Electric Power

| 2021 SAIFI Ranking | 2020 SAIFI Ranking | Substation Identification | Feeder Identification | Number of Customers | 2021 SAIFI Value |
|--------------------|--------------------|---------------------------|-----------------------|---------------------|------------------|
| 44 | 26 | KILGORE | 963090 | 394 | 2.97716 |
| 45 | 253 | HOWELL | 9613660 | 232 | 2.96983 |
| 46 | 43 | VIVIAN | 968980 | 48 | 2.93750 |
| 47 | 126 | HARRISON ROAD | 968040 | 2,275 | 2.83868 |
| 48 | 1 | GRAND SALINE | 967120 | 858 | 2.81702 |
| 49 | 168 | CARTHAGE | 963370 | 513 | 2.74464 |
| 50 | 24 | SOUTHEAST MARSHALL | 9610160 | 1,842 | 2.74321 |
| 51 | 171 | DEKALB | 963200 | 413 | 2.68765 |
| 52 | 2 | CLARKSVILLE | 963660 | 151 | 2.64901 |
| 53 | 52 | WESTWOOD | 963710 | 42 | 2.64286 |
| 54 | 184 | LONGVIEW HEIGHTS | 969000 | 857 | 2.58460 |
| 55 | 104 | KILGORE | 967860 | 382 | 2.54188 |
| 56 | 214 | ATLANTA | 964460 | 1,220 | 2.51393 |
| 57 | 100 | HARRISON ROAD | 9611870 | 2,224 | 2.50585 |
| 58 | 227 | LONGVIEW HEIGHTS | 969240 | 980 | 2.43673 |
| 59 | 235 | WHITNEY | 964420 | 506 | 2.43083 |
| 60 | 10 | WHITNEY | 961490 | 1,452 | 2.41736 |
| 61 | 84 | HALLSVILLE | 9616250 | 805 | 2.40745 |
| 62 | 257 | CITY LAKE | 9619120 | 471 | 2.38641 |
| 63 | 202 | MARSHALL 69KV | 964630 | 1,108 | 2.37906 |
| 64 | 245 | AIR PRODUCTS | 961Y60 | 20 | 2.35000 |
| 65 | 27 | CENTER | 962190 | 1,015 | 2.34384 |
| 66 | 31 | LEVERETTS CHAPEL | 965700 | 147 | 2.34014 |
| 67 | 210 | PITTSBURG | 965460 | 1,412 | 2.33853 |
| 68 | 145 | ALBA | 9612400 | 474 | 2.31857 |
| 69 | 220 | 39TH STREET | 962640 | 520 | 2.31731 |
| 70 | 180 | IPC JEFFERSON | 968020 | 920 | 2.27609 |
| 71 | 192 | MINEOLA | 969360 | 529 | 2.20794 |
| 72 | 218 | MORTON SALT | 9615160 | 257 | 2.19455 |
| 73 | 119 | COOKVILLE | 961E70 | 204 | 2.15686 |
| 74 | 260 | WEST MT PLEASANT | 961G90 | 249 | 2.14458 |
| 75 | 105 | ATLANTA | 968070 | 257 | 2.10117 |
| 76 | 167 | CENTER | 969520 | 1,104 | 2.09149 |
| 77 | 94 | GATES STREET | 961X40 | 465 | 2.08602 |
| 78 | 203 | CARTHAGE | 963360 | 384 | 1.95052 |
| 79 | 183 | TAYLOR STREET | 969510 | 1,074 | 1.92924 |
| 80 | 74 | TENAHA | 962510 | 349 | 1.92837 |
| 81 | 157 | BECKVILLE | 961U50 | 347 | 1.92795 |
| 82 | 78 | KILGORE | 967880 | 1,517 | 1.91892 |
| 83 | 90 | SPRINGHILL | 968200 | 751 | 1.91877 |
| 84 | 134 | SABINE | 965110 | 470 | 1.86809 |
| 85 | 139 | WELLINGTON | 96NT1765 | 575 | 1.86087 |
| 86 | 65 | MARSHALL 69KV | 962000 | 234 | 1.82479 |
| 87 | 195 | WASKOM | 967900 | 645 | 1.81550 |
| 88 | 209 | GATES STREET | 961X70 | 336 | 1.81250 |
| 89 | 142 | PITTSBURG | 968680 | 284 | 1.80634 |
| 90 | 41 | POYNTER | 967590 | 995 | 1.76683 |
| 91 | 86 | SHAMROCK | 96NT1835 | 234 | 1.73932 |

Service Quality Report to the Public Utility Commission of Texas

AEP Southwestern Electric Power

| 2021 SAIFI Ranking | 2020 SAIFI Ranking | Substation Identification | Feeder Identification | Number of Customers | 2021 SAIFI Value |
|--------------------|--------------------|---------------------------|-----------------------|---------------------|------------------|
| 92 | 85 | HOOKS | 9610960 | 1,340 | 1.72612 |
| 93 | 137 | LONGVIEW HEIGHTS | 968440 | 230 | 1.72174 |
| 94 | 151 | BALDWIN | 962200 | 21 | 1.71429 |
| 95 | 64 | LIBERTY CITY | 967990 | 1,067 | 1.69822 |
| 96 | 73 | HAWKINS | 962530 | 109 | 1.69725 |
| 97 | 50 | MT PLEASANT | 965360 | 688 | 1.69622 |
| 98 | 51 | WINNSBORO | 962050 | 1,179 | 1.68787 |
| 99 | 115 | MINEOLA | 9610990 | 972 | 1.65432 |
| 100 | 159 | SOUTHEAST MARSHALL | 9610920 | 802 | 1.63342 |
| 101 | 136 | CITY LAKE | 9619220 | 565 | 1.57699 |
| 102 | 69 | ATLANTA | 962150 | 634 | 1.57098 |
| 103 | 229 | JEFFERSON 69KV | 969340 | 972 | 1.54012 |
| 104 | 208 | RICHMOND ROAD | 961L40 | 396 | 1.52778 |
| 105 | 198 | LAKE LAMOND | 968570 | 783 | 1.52107 |
| 106 | 45 | MT PLEASANT | 965190 | 679 | 1.50957 |
| 107 | 163 | LAKE LAMOND | 964400 | 691 | 1.49783 |
| 108 | 156 | LAKE LAMOND | 964070 | 1,897 | 1.43595 |
| 109 | 33 | HUGHES SPRINGS | 965650 | 545 | 1.43486 |
| 110 | 130 | AIRLINE | 961S30 | 116 | 1.43103 |
| 111 | 244 | ATLANTA | 961U80 | 686 | 1.42857 |
| 112 | 109 | WINFIELD | 962B70 | 599 | 1.41068 |
| 113 | 98 | CENTER | 968140 | 1,034 | 1.41006 |
| 114 | 117 | LAKE LAMOND | 961380 | 1,941 | 1.40443 |
| 115 | 30 | LONDON | 965950 | 310 | 1.38387 |
| 116 | 188 | NEW HOPE | 968000 | 1,472 | 1.38315 |
| 117 | 21 | LONGVIEW | 965510 | 588 | 1.36565 |
| 118 | 89 | KNOX LEE | 961U90 | 179 | 1.36313 |
| 119 | 63 | KINGS HWY | 969030 | 916 | 1.35480 |
| 120 | 22 | WHITNEY | 964090 | 1,048 | 1.35019 |
| 121 | 197 | MONROE CORNERS | 966520 | 223 | 1.34978 |
| 122 | 9 | PLILER ROAD | 9610370 | 3,296 | 1.34951 |
| 123 | 175 | WELLINGTON | 96NT1770 | 283 | 1.34629 |
| 124 | 239 | DAINGERFIELD | 961960 | 1,166 | 1.33705 |
| 125 | 20 | SCOTTSVILLE | 961J30 | 475 | 1.33263 |
| 126 | 80 | HALLSVILLE | 9615920 | 887 | 1.31567 |
| 127 | 12 | HEDLEY | 96NT5870 | 133 | 1.30827 |
| 128 | 182 | VIVIAN | 968990 | 108 | 1.30556 |
| 129 | 187 | LONGVIEW | 965540 | 158 | 1.27215 |
| 130 | 161 | HOWELL | 962B90 | 1,251 | 1.25260 |
| 131 | 240 | KILGORE | 963150 | 613 | 1.24959 |
| 132 | 178 | RED RIVER DEPOT | 9612460 | 13 | 1.23077 |
| 133 | 55 | LONGVIEW HEIGHTS | 968430 | 485 | 1.21856 |
| 134 | 138 | GREGGTON | 962A90 | 556 | 1.20863 |
| 135 | 56 | RICHMOND ROAD | 968050 | 1,324 | 1.20846 |
| 136 | 129 | SHAMROCK | 96NT144 | 625 | 1.20640 |
| 137 | 265 | LONGVIEW | 965550 | 107 | 1.20561 |
| 138 | 141 | MINEOLA | 963680 | 832 | 1.19712 |
| 139 | 133 | WINNSBORO | 962040 | 519 | 1.19461 |
| 140 | 213 | GILMER | 962480 | 605 | 1.18843 |

Service Quality Report to the Public Utility Commission of Texas

AEP Southwestern Electric Power

| 2021 SAIFI Ranking | 2020 SAIFI Ranking | Substation Identification | Feeder Identification | Number of Customers | 2021 SAIFI Value |
|--------------------|--------------------|---------------------------|-----------------------|---------------------|------------------|
| 141 | 153 | LINDEN | 9610020 | 335 | 1.18806 |
| 142 | 124 | MT PLEASANT | 965370 | 1,232 | 1.18344 |
| 143 | 147 | NEW BOSTON | 965140 | 1,442 | 1.18169 |
| 144 | 149 | NAPLES SUB | 968720 | 205 | 1.17073 |
| 145 | 263 | LONGVIEW | 965530 | 135 | 1.17037 |
| 146 | 113 | HAWKINS | 966310 | 153 | 1.16993 |
| 147 | 131 | TEXARKANA PLANT | 967960 | 1,360 | 1.15956 |
| 148 | 255 | MT VERNON | 9612760 | 907 | 1.15766 |
| 149 | 205 | WELLINGTON | 96NT3700 | 745 | 1.14631 |
| 150 | 38 | TEXARKANA PLANT | 966570 | 77 | 1.14286 |
| 151 | 77 | WINFIELD | 964100 | 100 | 1.14000 |
| 152 | 169 | TATUM | 9610840 | 739 | 1.13667 |
| 153 | 230 | LONE STAR SHELL ORDNANCE | 9616030 | 41 | 1.12195 |
| 154 | 273 | JEFFERSON 69KV | 969350 | 135 | 1.11852 |
| 155 | 174 | MEMPHIS | 96NT3025 | 320 | 1.10938 |
| 156 | 58 | NORTH MARSHALL | 969800 | 1,066 | 1.10788 |
| 157 | 3 | FRIARS SWITCH | 961900 | 200 | 1.10500 |
| 158 | 199 | CLARENDON | 96NT4040 | 693 | 1.10245 |
| 159 | 221 | SPRINGHILL | 966870 | 1,010 | 1.09604 |
| 160 | 158 | EVENSIDE | 961F90 | 1,770 | 1.08814 |
| 161 | 140 | PLEASANT HILL | 9611894 | 24 | 1.08333 |
| 162 | 72 | MONROE CORNERS | 966510 | 79 | 1.07595 |
| 163 | 152 | 12TH STREET | 966180 | 49 | 1.06122 |
| 164 | 212 | SOUTHEAST LONGVIEW | 964190 | 274 | 1.05839 |
| 165 | 114 | POYNTER | 963270 | 875 | 1.04000 |
| 166 | 47 | TEXARKANA OPERATIONS | 961S90 | 196 | 1.03061 |
| 167 | 243 | TENAHA | 962500 | 400 | 1.02000 |
| 168 | 211 | CLARKSVILLE | 969210 | 808 | 1.00495 |
| 169 | 53 | GATES STREET | 961X60 | 364 | 1.00275 |
| 170 | 67 | LEVERETTS CHAPEL | 9610850 | 385 | 1.00260 |
| 171 | 204 | ESTELLINE | 96NT3535 | 118 | 1.00000 |
| 172 | 11 | TURNERTOWN | 961B00 | 24 | 1.00000 |
| 173 | 262 | NASH | 9614640 | 238 | 0.99580 |
| 174 | 252 | 39TH STREET | 962610 | 133 | 0.99248 |
| 175 | 29 | WINNSBORO | 961P00 | 815 | 0.97669 |
| 176 | 261 | NASH | 9615120 | 865 | 0.96416 |
| 177 | 93 | SOUTHEAST MARSHALL | 967580 | 907 | 0.93385 |
| 178 | 146 | POYNTER | 967800 | 181 | 0.90608 |
| 179 | 189 | MEMPHIS | 96NT3335 | 1,147 | 0.85092 |
| 180 | 16 | GRAND SALINE | 967110 | 1,204 | 0.80482 |
| 181 | 181 | TAYLOR STREET | 965080 | 477 | 0.76939 |
| 182 | 35 | CLARKSVILLE | 963670 | 115 | 0.73913 |
| 183 | 17 | SABINE | 965130 | 1,550 | 0.73871 |
| 184 | 111 | CLARKSVILLE | 969190 | 1,095 | 0.73425 |
| 185 | 68 | GILMER | 962490 | 1,598 | 0.72153 |
| 186 | 128 | NEW BOSTON | 969610 | 805 | 0.71801 |
| 187 | 224 | NEW HOPE | 962120 | 506 | 0.69960 |
| 188 | 79 | NORTH MINEOLA | 965380 | 351 | 0.68661 |
| 189 | 118 | ROSEBOROUGH | 9610090 | 22 | 0.68182 |

Service Quality Report to the Public Utility Commission of Texas

AEP Southwestern Electric Power

| 2021 SAIFI Ranking | 2020 SAIFI Ranking | Substation Identification | Feeder Identification | Number of Customers | 2021 SAIFI Value |
|--------------------|--------------------|---------------------------|-----------------------|---------------------|------------------|
| 190 | 122 | LAKE LAMOND | 966850 | 556 | 0.66187 |
| 191 | 241 | NAPLES SUB | 963290 | 479 | 0.65971 |
| 192 | 91 | TURNERTOWN | 961B20 | 436 | 0.65367 |
| 193 | 83 | NEW BOSTON | 961620 | 961 | 0.63059 |
| 194 | 247 | MT VERNON | 969140 | 415 | 0.62892 |
| 195 | 76 | LOUISIANA PACIFIC | 968030 | 429 | 0.62238 |
| 196 | 48 | HUGHES SPRINGS | 961Z00 | 780 | 0.60256 |
| 197 | 14 | LEVERETTS CHAPEL | 965200 | 433 | 0.59353 |
| 198 | 66 | PETTY | 9611460 | 513 | 0.58090 |
| 199 | 36 | TEXARKANA OPERATIONS | 967240 | 994 | 0.57847 |
| 200 | 234 | TAYLOR STREET | 964290 | 906 | 0.56181 |
| 201 | 34 | WHITNEY | 964080 | 828 | 0.56159 |
| 202 | 42 | BLOOMBURG | 967350 | 348 | 0.54598 |
| 203 | 15 | MT PLEASANT | 961930 | 1,125 | 0.54311 |
| 204 | 150 | RICHMOND ROAD | 964020 | 914 | 0.54048 |
| 205 | 172 | BIG SANDY | 967310 | 657 | 0.53881 |
| 206 | 219 | BECKVILLE | 969120 | 308 | 0.52273 |
| 207 | 75 | LAKE LAMOND | 969430 | 593 | 0.51771 |
| 208 | 82 | HOOKS | 9610950 | 508 | 0.50394 |
| 209 | 4 | LINDEN | 962540 | 933 | 0.50161 |
| 210 | 259 | DAINGERFIELD | 961950 | 162 | 0.48765 |
| 211 | 97 | CARTHAGE | 9610240 | 1,056 | 0.47633 |
| 212 | 200 | TAYLOR STREET | 966760 | 1,138 | 0.47452 |
| 213 | 116 | MT VERNON | 969130 | 459 | 0.47277 |
| 214 | 165 | HOWELL | 962B80 | 413 | 0.42373 |
| 215 | 246 | HAWKINS | 969410 | 195 | 0.42051 |
| 216 | 110 | AIRLINE | 961F00 | 1,052 | 0.41350 |
| 217 | 254 | LAKE LAMOND | 969770 | 279 | 0.39068 |
| 218 | 179 | AIRLINE | 961N30 | 1,943 | 0.38034 |
| 219 | 228 | HAWKINS | 962520 | 416 | 0.37500 |
| 220 | 121 | SCOTTSVILLE | 961J10 | 860 | 0.37326 |
| 221 | 108 | 39TH STREET | 962630 | 1,344 | 0.36979 |
| 222 | 54 | LONGVIEW | 966770 | 1,073 | 0.36626 |
| 223 | 216 | KINGS HWY | 969040 | 933 | 0.36227 |
| 224 | 251 | EVENSIDE | 961G10 | 1,071 | 0.35014 |
| 225 | 96 | CAREY | 96NT6115 | 118 | 0.34746 |
| 226 | 70 | NAPLES SUB | 968730 | 933 | 0.32583 |
| 227 | 106 | KILGORE | 967190 | 778 | 0.32519 |
| 228 | 226 | KILGORE | 964650 | 503 | 0.32207 |
| 229 | 103 | COOKVILLE | 961E60 | 122 | 0.31967 |
| 230 | 127 | AIRLINE | 961F10 | 796 | 0.30276 |
| 231 | 194 | KINGS HWY | 969540 | 1,875 | 0.29920 |
| 232 | 112 | CARTHAGE | 963350 | 537 | 0.29423 |
| 233 | 144 | GREGGTON | 961F50 | 330 | 0.29091 |
| 234 | 162 | BIG SANDY | 967300 | 746 | 0.28686 |
| 235 | 223 | CITY LAKE | 9619090 | 324 | 0.27469 |
| 236 | 120 | TEXARKANA PLANT | 967970 | 207 | 0.27053 |
| 237 | 166 | NASH | 9615130 | 1,355 | 0.27011 |
| 238 | 206 | RICHMOND ROAD | 965290 | 1,372 | 0.26968 |

Service Quality Report to the Public Utility Commission of Texas

AEP Southwestern Electric Power

| 2021 SAIFI Ranking | 2020 SAIFI Ranking | Substation Identification | Feeder Identification | Number of Customers | 2021 SAIFI Value |
|--------------------|--------------------|---------------------------|-----------------------|---------------------|------------------|
| 239 | 232 | DAINGERFIELD | 961970 | 672 | 0.26786 |
| 240 | 215 | POYNTER | 967680 | 855 | 0.26667 |
| 241 | 23 | PLILER ROAD | 9610380 | 2,047 | 0.24182 |
| 242 | 135 | 39TH STREET | 961V60 | 604 | 0.24172 |
| 243 | 95 | TEXARKANA PLANT | 967980 | 155 | 0.23871 |
| 244 | 236 | CLARKSVILLE | 969180 | 473 | 0.23044 |
| 245 | 71 | TEXARKANA OPERATIONS | 967830 | 865 | 0.22775 |
| 246 | 18 | PLILER ROAD | 9612470 | 3,060 | 0.22353 |
| 247 | 25 | NEW BOSTON | 969620 | 381 | 0.21785 |
| 248 | 201 | NORTH MARSHALL | 968670 | 869 | 0.19678 |
| 249 | 222 | HOWELL | 962B60 | 141 | 0.16312 |
| 250 | 59 | SUGAR HILL | 962370 | 392 | 0.15051 |
| 251 | 148 | TEXARKANA OPERATIONS | 9611630 | 689 | 0.14369 |
| 252 | 132 | SOUTHEAST LONGVIEW | 961780 | 607 | 0.13674 |
| 253 | 231 | GREGGTON | 961F70 | 1,722 | 0.12718 |
| 254 | NA | IPC 138KV | 9616850 | 42 | 0.11905 |
| 255 | 270 | 12TH STREET | 962230 | 89 | 0.11236 |
| 256 | NA | ALBA | 9616950 | 177 | 0.10734 |
| 257 | 264 | PETTY | 9611470 | 788 | 0.10533 |
| 258 | 164 | AIRLINE | 961E90 | 1,311 | 0.09687 |
| 259 | 123 | SHAMROCK | 96NT148 | 750 | 0.08800 |
| 260 | 250 | CLARENDON | 96NT5005 | 812 | 0.08374 |
| 261 | 61 | HEDLEY | 96NT5845 | 234 | 0.08120 |
| 262 | 271 | HALLSVILLE | 9616240 | 1,125 | 0.07911 |
| 263 | 268 | LOGANSPOUT | 965770 | 279 | 0.07527 |
| 264 | 196 | GREGGTON | 961F60 | 101 | 0.06931 |
| 265 | 6 | TEXARKANA OPERATIONS | 961S80 | 987 | 0.06282 |
| 266 | 238 | NASH | 9614710 | 17 | 0.05882 |
| 267 | 258 | LAKE LAMOND | 969440 | 297 | 0.05724 |
| 268 | 274 | LAKE LAMOND | 966860 | 19 | 0.05263 |
| 269 | 62 | MT PLEASANT | 961920 | 145 | 0.02759 |
| 270 | 242 | TAYLOR STREET | 96220 | 1,391 | 0.02588 |
| 271 | 248 | CARTHAGE | 965760 | 936 | 0.02457 |
| 272 | 267 | KILGORE | 967870 | 498 | 0.02209 |
| 273 | 249 | CITY LAKE | 9619210 | 95 | 0.00000 |
| 274 | 272 | CENTER | 962180 | 43 | 0.00000 |
| 275 | 237 | RED RIVER DEPOT | 9612440 | 70 | 0.00000 |
| 276 | 269 | WHITNEY | 961A00 | 47 | 0.00000 |

Service Quality Report to the Public Utility Commission of Texas

Distribution Feeder Indices for Forced Interruptions

List all Distribution Feeders on Texas System

Total Number of Feeders

With 10 or more Customers

| |
|------------|
| 276 |
|------------|

Add or Delete Rows as Necessary

AEP Southwestern Electric Power

| 2021 SAIDI Ranking | 2020 SAIDI Ranking | Substation Identification | Feeder Identification | Number of Customers | 2021 SAIDI Value |
|--------------------|--------------------|---------------------------|-----------------------|---------------------|------------------|
| 1 | 26 | TENAHA | 962510 | 349 | 2,243.18338 |
| 2 | 66 | SABINE | 965120 | 97 | 1,792.20619 |
| 3 | 49 | CENTER | 962190 | 1,015 | 1,677.42956 |
| 4 | 48 | NORTH LANEVILLE | 9610660 | 484 | 1,628.27479 |
| 5 | 58 | CENTER | 968140 | 1,034 | 1,183.48839 |
| 6 | 19 | WEST MT PLEASANT | 961L00 | 180 | 1,066.23889 |
| 7 | 56 | PITTSBURG | 965450 | 1,215 | 995.77284 |
| 8 | 161 | CENTER | 969520 | 1,104 | 912.66304 |
| 9 | 6 | CLARKSVILLE | 963660 | 151 | 911.35099 |
| 10 | 34 | SHAMROCK | 96NT1835 | 234 | 911.18803 |
| 11 | 162 | AIR PRODUCTS | 961Y60 | 20 | 898.05000 |
| 12 | 40 | WASKOM | 967890 | 581 | 866.53356 |
| 13 | 20 | FRIARS SWITCH | 965780 | 149 | 861.50336 |
| 14 | 50 | TURNERTOWN | 961B10 | 50 | 824.26000 |
| 15 | 14 | LONDON | 965930 | 480 | 685.46042 |
| 16 | 22 | LONDON | 965940 | 348 | 671.93966 |
| 17 | 53 | HAWKINS | 962530 | 109 | 668.13761 |
| 18 | 197 | NORTH MARSHALL | 968660 | 646 | 657.97523 |
| 19 | 123 | CLARENDON | 96NT4040 | 693 | 652.54834 |
| 20 | 143 | LONGVIEW HEIGHTS | 961B40 | 1,947 | 624.49307 |
| 21 | 179 | KILGORE | 967850 | 113 | 582.98230 |
| 22 | 231 | WEST MT PLEASANT | 961G70 | 113 | 575.87611 |
| 23 | 13 | FRIARS SWITCH | 965790 | 419 | 569.96181 |
| 24 | 93 | EVENSIDE | 961G00 | 926 | 509.03132 |
| 25 | 99 | CLARKSVILLE | 969200 | 667 | 502.56972 |
| 26 | 127 | CARTHAGE | 963360 | 384 | 499.77344 |
| 27 | 33 | HARRISON ROAD | 9611880 | 2,077 | 496.46991 |
| 28 | 7 | SUPERIOR | 963750 | 39 | 491.30769 |
| 29 | 136 | SOUTHEAST MARSHALL | 9610180 | 1,452 | 491.11983 |
| 30 | 64 | GILMER | 962450 | 947 | 476.94192 |
| 31 | 134 | AIRLINE | 961S30 | 116 | 472.29310 |
| 32 | 29 | FRIARS SWITCH | 965920 | 246 | 470.93496 |
| 33 | 256 | MT VERNON | 9612760 | 907 | 465.20948 |
| 34 | 142 | SPRINGHILL | 968190 | 832 | 453.94111 |
| 35 | 150 | WASKOM | 968180 | 630 | 431.32381 |
| 36 | 195 | 39TH STREET | 961V70 | 51 | 431.01961 |
| 37 | 44 | SHAMROCK | 96NT144 | 625 | 429.96320 |
| 38 | 31 | KILGORE | 967880 | 1,517 | 424.87409 |
| 39 | 251 | WHITNEY | 964420 | 506 | 418.95059 |
| 40 | 135 | MARSHALL 69KV | 96580 | 848 | 417.23467 |
| 41 | 171 | ALBA | 9612400 | 474 | 408.01899 |
| 42 | 261 | WEST MT PLEASANT | 961G90 | 249 | 405.28916 |
| 43 | 133 | WINFIELD | 964100 | 100 | 404.23000 |

Service Quality Report to the Public Utility Commission of Texas

AEP Southwestern Electric Power

| 2021 SAIDI Ranking | 2020 SAIDI Ranking | Substation Identification | Feeder Identification | Number of Customers | 2021 SAIDI Value |
|--------------------|--------------------|---------------------------|-----------------------|---------------------|------------------|
| 44 | 235 | DEKALB | 962430 | 888 | 403.43018 |
| 45 | 221 | RODESSA | 9617310 | 259 | 399.48263 |
| 46 | 5 | CLARKSVILLE | 963670 | 115 | 398.87826 |
| 47 | 62 | NEW GLADEWATER | 9611980 | 1,092 | 390.47802 |
| 48 | 259 | SOUTHEAST MARSHALL | 9610170 | 1,109 | 390.04418 |
| 49 | 70 | HALLSVILLE | 9616250 | 805 | 381.31925 |
| 50 | 27 | WESTWOOD | 963710 | 42 | 351.61905 |
| 51 | 216 | PETTY | 968370 | 184 | 350.89674 |
| 52 | 169 | ATLANTA | 962140 | 1,735 | 349.52968 |
| 53 | 100 | VIVIAN | 968980 | 48 | 344.29167 |
| 54 | 215 | TAYLOR STREET | 967920 | 386 | 340.26684 |
| 55 | 183 | MINEOLA | 967130 | 1,015 | 337.39803 |
| 56 | 79 | WHITNEY | 961480 | 1,614 | 336.03470 |
| 57 | 124 | NEW GLADEWATER | 9611970 | 1,737 | 329.96603 |
| 58 | 157 | LONGVIEW HEIGHTS | 969240 | 980 | 327.34898 |
| 59 | 21 | KNOX LEE | 961U90 | 179 | 326.66480 |
| 60 | 188 | TAYLOR STREET | 969510 | 1,074 | 311.43296 |
| 61 | 97 | COOKVILLE | 961E70 | 204 | 302.51471 |
| 62 | 139 | RICHMOND ROAD | 966980 | 1,465 | 301.55904 |
| 63 | 140 | DEKALB | 962440 | 535 | 300.73458 |
| 64 | 85 | SOUTHEAST MARSHALL | 9610160 | 1,842 | 297.65527 |
| 65 | 23 | KILGORE | 963090 | 394 | 294.80964 |
| 66 | 25 | WINNSBORO | 961P00 | 815 | 287.30061 |
| 67 | 126 | BECKVILLE | 961U50 | 347 | 286.80980 |
| 68 | 189 | CARTHAGE | 963370 | 513 | 283.53996 |
| 69 | 163 | ATLANTA | 968070 | 257 | 283.01167 |
| 70 | 36 | LIBERTY CITY | 967990 | 1,067 | 276.06842 |
| 71 | 266 | LONGVIEW | 965540 | 158 | 275.48734 |
| 72 | 212 | MONROE CORNERS | 966520 | 223 | 274.41704 |
| 73 | 131 | LOUISIANA PACIFIC | 962260 | 741 | 267.58974 |
| 74 | 209 | PITTSBURG | 965460 | 1,412 | 262.71884 |
| 75 | 198 | POYNTER | 969550 | 290 | 261.21034 |
| 76 | 262 | HOWELL | 9613660 | 232 | 260.06034 |
| 77 | 35 | SPRINGHILL | 968200 | 751 | 259.96405 |
| 78 | 208 | GATES STREET | 961X70 | 336 | 259.06845 |
| 79 | 73 | LONGVIEW | 965520 | 1,187 | 258.52064 |
| 80 | 257 | CITY LAKE | 9619120 | 471 | 254.69427 |
| 81 | 192 | PLEASANT HILL | 9611894 | 24 | 252.37500 |
| 82 | 227 | LONE STAR SHELL ORDNANCE | 9616030 | 41 | 248.02439 |
| 83 | 237 | ATLANTA | 961U80 | 686 | 247.80321 |
| 84 | 39 | MT PLEASANT | 965190 | 679 | 247.59941 |
| 85 | 18 | LONGVIEW | 965510 | 588 | 243.88776 |
| 86 | 67 | LONGVIEW HEIGHTS | 969000 | 857 | 235.51692 |
| 87 | 186 | CLARKSVILLE | 969210 | 808 | 235.45297 |
| 88 | 45 | KILGORE | 967860 | 382 | 233.27487 |
| 89 | 268 | MARSHALL 69KV | 96590 | 733 | 228.85539 |
| 90 | 81 | BALDWIN | 962200 | 21 | 228.57143 |
| 91 | 86 | PITTSBURG | 968680 | 284 | 228.08451 |

Service Quality Report to the Public Utility Commission of Texas

AEP Southwestern Electric Power

| 2021 SAIDI Ranking | 2020 SAIDI Ranking | Substation Identification | Feeder Identification | Number of Customers | 2021 SAIDI Value |
|--------------------|--------------------|---------------------------|-----------------------|---------------------|------------------|
| 92 | 46 | SCOTTSVILLE | 961J30 | 475 | 224.88842 |
| 93 | 149 | HARRISON ROAD | 9611870 | 2,224 | 223.61196 |
| 94 | 15 | LONDON | 965950 | 310 | 222.07097 |
| 95 | 68 | EVENSIDE | 961F90 | 1,770 | 221.93390 |
| 96 | 112 | HOWELL | 962B90 | 1,251 | 221.81855 |
| 97 | 105 | SOUTHEAST MARSHALL | 9610920 | 802 | 221.22195 |
| 98 | 17 | PETTY | 9611460 | 513 | 220.63938 |
| 99 | 121 | WINFIELD | 962B70 | 599 | 219.55760 |
| 100 | 177 | DEKALB | 963200 | 413 | 216.31961 |
| 101 | 120 | ATLANTA | 962150 | 634 | 213.80915 |
| 102 | 234 | LONGVIEW | 965530 | 135 | 212.82222 |
| 103 | 148 | NORTH MARSHALL | 967600 | 703 | 209.97155 |
| 104 | 115 | POYNTER | 967800 | 181 | 207.85083 |
| 105 | 190 | TAYLOR STREET | 965080 | 477 | 202.75891 |
| 106 | 264 | LONGVIEW | 965550 | 107 | 201.20561 |
| 107 | 191 | IPC JEFFERSON | 968020 | 920 | 197.82826 |
| 108 | 95 | POYNTER | 963270 | 875 | 193.81029 |
| 109 | 71 | WHITNEY | 961490 | 1,452 | 190.42631 |
| 110 | 104 | VIVIAN | 968990 | 108 | 189.02778 |
| 111 | 226 | NEW HOPE | 962120 | 506 | 183.32411 |
| 112 | 168 | GREGGTON | 961V20 | 1,607 | 181.37897 |
| 113 | 113 | HARRISON ROAD | 968040 | 2,275 | 176.44484 |
| 114 | 125 | WELLINGTON | 96NT1765 | 575 | 175.46435 |
| 115 | 92 | LEVERETTS CHAPEL | 9610850 | 385 | 174.24156 |
| 116 | 37 | POYNTER | 967590 | 995 | 170.68442 |
| 117 | 144 | GATES STREET | 961X40 | 465 | 166.89247 |
| 118 | 60 | PLILER ROAD | 9610370 | 3,296 | 166.24697 |
| 119 | 224 | SOUTHEAST LONGVIEW | 964190 | 274 | 163.31752 |
| 120 | 117 | NAPLES SUB | 968720 | 205 | 162.66829 |
| 121 | 173 | LAKE LAMOND | 966850 | 556 | 162.29137 |
| 122 | 223 | ATLANTA | 964460 | 1,220 | 162.08033 |
| 123 | 202 | WELLINGTON | 96NT1770 | 283 | 161.72792 |
| 124 | 52 | HUGHES SPRINGS | 965650 | 545 | 160.93028 |
| 125 | 187 | MORTON SALT | 9615160 | 257 | 158.87938 |
| 126 | 76 | MARSHALL 69KV | 962000 | 234 | 158.41026 |
| 127 | 155 | NEW HOPE | 968000 | 1,472 | 157.13859 |
| 128 | 160 | MINEOLA | 969360 | 529 | 156.10586 |
| 129 | 220 | JEFFERSON 69KV | 969340 | 972 | 153.18519 |
| 130 | 88 | LEVERETTS CHAPEL | 965200 | 433 | 152.70901 |
| 131 | 146 | LAKE LAMOND | 964400 | 691 | 151.67438 |
| 132 | 51 | TENAHA | 962500 | 400 | 150.46000 |
| 133 | 219 | 39TH STREET | 962640 | 520 | 149.22692 |
| 134 | 90 | KINGS HWY | 969030 | 916 | 145.59607 |
| 135 | 2 | GRAND SALINE | 967120 | 858 | 144.96270 |
| 136 | 74 | MT PLEASANT | 965360 | 688 | 144.40552 |
| 137 | 152 | LONGVIEW HEIGHTS | 968440 | 230 | 143.57826 |
| 138 | 166 | CLARKSVILLE | 969190 | 1,095 | 141.97991 |
| 139 | 132 | GREGGTON | 961F50 | 330 | 140.33333 |
| 140 | 207 | LAKE LAMOND | 968570 | 783 | 140.24649 |

Service Quality Report to the Public Utility Commission of Texas

AEP Southwestern Electric Power

| 2021 SAIDI Ranking | 2020 SAIDI Ranking | Substation Identification | Feeder Identification | Number of Customers | 2021 SAIDI Value |
|--------------------|--------------------|---------------------------|-----------------------|---------------------|------------------|
| 141 | 106 | CITY LAKE | 9619220 | 565 | 137.24956 |
| 142 | 204 | MINEOLA | 9610990 | 972 | 135.05144 |
| 143 | 222 | DAINGERFIELD | 961960 | 1,166 | 134.83533 |
| 144 | 167 | SOUTHEAST MARSHALL | 967580 | 907 | 134.46527 |
| 145 | 72 | GILMER | 962490 | 1,598 | 133.11827 |
| 146 | 9 | MONROE CORNERS | 966510 | 79 | 132.86076 |
| 147 | 59 | LAKE LAMOND | 969430 | 593 | 132.59528 |
| 148 | 181 | GREGGTON | 962A90 | 556 | 132.40108 |
| 149 | 98 | LAKE LAMOND | 961380 | 1,941 | 131.71200 |
| 150 | 246 | MT VERNON | 969140 | 415 | 131.29398 |
| 151 | 30 | FRIARS SWITCH | 961900 | 200 | 131.08500 |
| 152 | 42 | LEVERETTS CHAPEL | 965700 | 147 | 129.82313 |
| 153 | 91 | WINNSBORO | 962050 | 1,179 | 125.70399 |
| 154 | 184 | NEW BOSTON | 965140 | 1,442 | 124.91262 |
| 155 | 240 | RICHMOND ROAD | 961L40 | 396 | 122.00758 |
| 156 | 211 | SPRINGHILL | 966870 | 1,010 | 119.28515 |
| 157 | 170 | BIG SANDY | 967310 | 657 | 118.17504 |
| 158 | 206 | DAINGERFIELD | 961970 | 672 | 117.86310 |
| 159 | 159 | WASKOM | 967900 | 645 | 117.29767 |
| 160 | 116 | TEXARKANA PLANT | 966570 | 77 | 114.55844 |
| 161 | 80 | TEXARKANA OPERATIONS | 967240 | 994 | 112.94970 |
| 162 | 38 | GRAND SALINE | 967110 | 1,204 | 112.45100 |
| 163 | 129 | RED RIVER DEPOT | 9612460 | 13 | 111.23077 |
| 164 | 118 | LAKE LAMOND | 964070 | 1,897 | 109.94254 |
| 165 | 265 | NASH | 9615120 | 865 | 107.18728 |
| 166 | 174 | SABINE | 965110 | 470 | 107.09574 |
| 167 | 11 | TURNERTOWN | 961B20 | 436 | 106.60321 |
| 168 | 96 | HALLSVILLE | 9615920 | 887 | 105.48591 |
| 169 | 78 | WINNSBORO | 962040 | 519 | 103.33333 |
| 170 | 145 | TEXARKANA PLANT | 967960 | 1,360 | 100.99926 |
| 171 | 218 | 12TH STREET | 966180 | 49 | 99.34694 |
| 172 | 141 | WHITNEY | 964080 | 828 | 98.92271 |
| 173 | 253 | KILGORE | 963150 | 613 | 98.63948 |
| 174 | 102 | HOOKS | 9610960 | 1,340 | 97.93134 |
| 175 | 114 | MT PLEASANT | 965370 | 1,232 | 96.88961 |
| 176 | 250 | MINEOLA | 963680 | 832 | 96.71995 |
| 177 | 210 | MARSHALL 69KV | 964630 | 1,108 | 92.89079 |
| 178 | 199 | NEW BOSTON | 969610 | 805 | 90.87702 |
| 179 | 176 | RICHMOND ROAD | 965290 | 1,372 | 88.26822 |
| 180 | 153 | WHITNEY | 964090 | 1,048 | 87.97615 |
| 181 | 84 | RICHMOND ROAD | 968050 | 1,324 | 87.96148 |
| 182 | 16 | LONGVIEW | 966770 | 1,073 | 87.79124 |
| 183 | 200 | MT VERNON | 969130 | 459 | 85.85403 |
| 184 | 154 | POYNTER | 967680 | 855 | 85.68538 |
| 185 | 61 | LONGVIEW HEIGHTS | 968430 | 485 | 85.26804 |
| 186 | 87 | LOUISIANA PACIFIC | 968030 | 429 | 84.43590 |
| 187 | 239 | TAYLOR STREET | 964290 | 906 | 82.09492 |
| 188 | 201 | HAWKINS | 966310 | 153 | 82.07190 |
| 189 | 65 | SABINE | 965130 | 1,550 | 81.82968 |

Service Quality Report to the Public Utility Commission of Texas

AEP Southwestern Electric Power

| 2021 SAIDI Ranking | 2020 SAIDI Ranking | Substation Identification | Feeder Identification | Number of Customers | 2021 SAIDI Value |
|--------------------|--------------------|---------------------------|-----------------------|---------------------|------------------|
| 190 | 128 | AIRLINE | 961N30 | 1,943 | 80.22542 |
| 191 | 89 | GATES STREET | 961X60 | 364 | 79.21429 |
| 192 | 180 | TATUM | 9610840 | 739 | 78.95670 |
| 193 | 109 | NEW BOSTON | 961620 | 961 | 78.71280 |
| 194 | 83 | NORTH MARSHALL | 969800 | 1,066 | 78.60882 |
| 195 | 193 | HOWELL | 962B80 | 413 | 77.57869 |
| 196 | 185 | ESTELLINE | 96NT3535 | 118 | 77.06780 |
| 197 | 158 | MEMPHIS | 96NT3335 | 1,147 | 73.60070 |
| 198 | 217 | WELLINGTON | 96NT3700 | 745 | 73.17047 |
| 199 | 214 | GILMER | 962480 | 605 | 71.58843 |
| 200 | 1 | HEDLEY | 96NT5870 | 133 | 68.88722 |
| 201 | 110 | SCOTTSVILLE | 961J10 | 860 | 65.69419 |
| 202 | 248 | 39TH STREET | 962610 | 133 | 65.21053 |
| 203 | 94 | BLOOMBURG | 967350 | 348 | 64.61207 |
| 204 | 119 | HUGHES SPRINGS | 961Z00 | 780 | 64.20256 |
| 205 | 10 | NAPLES SUB | 968730 | 933 | 63.36656 |
| 206 | 122 | CARTHAGE | 9610240 | 1,056 | 62.16288 |
| 207 | 82 | NORTH MINEOLA | 965380 | 351 | 61.82621 |
| 208 | 165 | RICHMOND ROAD | 964020 | 914 | 60.60503 |
| 209 | 4 | LINDEN | 962540 | 933 | 59.25295 |
| 210 | 24 | LINDEN | 9610020 | 335 | 56.80896 |
| 211 | 43 | PLILER ROAD | 9612470 | 3,060 | 56.75163 |
| 212 | 228 | TAYLOR STREET | 966760 | 1,138 | 55.95167 |
| 213 | 32 | MT PLEASANT | 961930 | 1,125 | 54.41422 |
| 214 | 164 | 39TH STREET | 962630 | 1,344 | 53.14286 |
| 215 | 54 | ROSEBOROUGH | 9610090 | 22 | 50.09091 |
| 216 | 273 | JEFFERSON 69KV | 969350 | 135 | 49.64444 |
| 217 | 243 | DAINGERFIELD | 961950 | 162 | 49.51235 |
| 218 | 41 | HOOKS | 9610950 | 508 | 49.00591 |
| 219 | 3 | CAREY | 96NT6115 | 118 | 48.65254 |
| 220 | 108 | MEMPHIS | 96NT3025 | 320 | 48.22500 |
| 221 | 182 | HAWKINS | 962520 | 416 | 47.57692 |
| 222 | 230 | NAPLES SUB | 963290 | 479 | 46.04175 |
| 223 | 55 | TEXARKANA OPERATIONS | 961S90 | 196 | 45.41837 |
| 224 | 247 | NASH | 9614640 | 238 | 44.18487 |
| 225 | 103 | COOKVILLE | 961E60 | 122 | 42.40984 |
| 226 | 130 | TEXARKANA OPERATIONS | 967830 | 865 | 40.95145 |
| 227 | 229 | NORTH MARSHALL | 968670 | 869 | 39.21174 |
| 228 | 147 | 39TH STREET | 961V60 | 604 | 39.06291 |
| 229 | 236 | BECKVILLE | 969120 | 308 | 39.05844 |
| 230 | 151 | KILGORE | 964650 | 503 | 38.80517 |
| 231 | 138 | KILGORE | 967190 | 778 | 38.80077 |
| 232 | 241 | HAWKINS | 969410 | 195 | 38.11282 |
| 233 | 69 | TEXARKANA PLANT | 967980 | 155 | 37.76774 |
| 234 | 111 | BIG SANDY | 967300 | 746 | 36.41421 |
| 235 | 213 | KINGS HWY | 969540 | 1,875 | 36.18773 |
| 236 | 137 | PLILER ROAD | 9610380 | 2,047 | 35.43527 |
| 237 | 196 | KINGS HWY | 969040 | 933 | 35.00000 |
| 238 | 47 | AIRLINE | 961F10 | 796 | 34.74749 |

Service Quality Report to the Public Utility Commission of Texas

AEP Southwestern Electric Power

| 2021 SAIDI Ranking | 2020 SAIDI Ranking | Substation Identification | Feeder Identification | Number of Customers | 2021 SAIDI Value |
|--------------------|--------------------|---------------------------|-----------------------|---------------------|------------------|
| 239 | 260 | LAKE LAMOND | 969770 | 279 | 33.81004 |
| 240 | 233 | CLARKSVILLE | 969180 | 473 | 33.15645 |
| 241 | 194 | AIRLINE | 961F00 | 1,052 | 33.08935 |
| 242 | 242 | GREGGTON | 961F70 | 1,722 | 31.24564 |
| 243 | 75 | NEW BOSTON | 969620 | 381 | 30.54593 |
| 244 | 252 | EVENSIDE | 961G10 | 1,071 | 28.32306 |
| 245 | 267 | LOGANSFORT | 965770 | 279 | 27.71326 |
| 246 | 8 | TURNERTOWN | 961B00 | 24 | 27.04167 |
| 247 | 203 | CITY LAKE | 9619090 | 324 | 25.87963 |
| 248 | 225 | NASH | 9615130 | 1,355 | 24.63026 |
| 249 | 101 | TEXARKANA PLANT | 967970 | 207 | 23.29952 |
| 250 | 156 | CARTHAGE | 963350 | 537 | 19.93669 |
| 251 | 107 | SOUTHEAST LONGVIEW | 961780 | 607 | 19.69357 |
| 252 | 255 | 12TH STREET | 962230 | 89 | 19.10112 |
| 253 | 232 | HOWELL | 962B60 | 141 | 18.42553 |
| 254 | 263 | LAKE LAMOND | 969440 | 297 | 17.50505 |
| 255 | 258 | PETTY | 9611470 | 788 | 16.22335 |
| 256 | 178 | AIRLINE | 961E90 | 1,311 | 13.25019 |
| 257 | NA | IPC 138KV | 9616850 | 42 | 13.07143 |
| 258 | 172 | TEXARKANA OPERATIONS | 9611630 | 689 | 11.79100 |
| 259 | 63 | TEXARKANA OPERATIONS | 961S80 | 987 | 11.47214 |
| 260 | 28 | SUGAR HILL | 962370 | 392 | 9.94643 |
| 261 | 57 | SHAMROCK | 96NT148 | 750 | 8.69733 |
| 262 | 205 | GREGGTON | 961F60 | 101 | 8.61386 |
| 263 | 254 | CLARENDON | 96NT5005 | 812 | 7.41502 |
| 264 | NA | ALBA | 9616950 | 177 | 7.25989 |
| 265 | 269 | HALLSVILLE | 9616240 | 1,125 | 6.57333 |
| 266 | 12 | HEDLEY | 96NT5845 | 234 | 6.07692 |
| 267 | 77 | MT PLEASANT | 961920 | 145 | 4.37931 |
| 268 | 270 | KILGORE | 967870 | 498 | 3.92570 |
| 269 | 238 | TAYLOR STREET | 96220 | 1,391 | 3.89576 |
| 270 | 249 | NASH | 9614710 | 17 | 3.41176 |
| 271 | 274 | LAKE LAMOND | 966860 | 19 | 2.36842 |
| 272 | 244 | CARTHAGE | 965760 | 936 | 1.51923 |
| 273 | 175 | CITY LAKE | 9619210 | 95 | 0.00000 |
| 274 | 271 | CENTER | 962180 | 43 | 0.00000 |
| 275 | 245 | RED RIVER DEPOT | 9612440 | 70 | 0.00000 |
| 276 | 272 | WHITNEY | 961A00 | 47 | 0.00000 |

Service Quality Report to the Public Utility Commission of Texas

AEP Southwestern Electric Power

INTERRUPTION CAUSES

Provide the percentage of interruptions attributable to each cause.

2021 Reporting Year

| Causes of Forced Interruptions | Percentage |
|---------------------------------------|-------------------|
| Vegetation | 33.7% |
| Weather (including lightning) | 32.2% |
| Utility-Owned Equipment | 18.1% |
| Animals and Birds | 8.0% |
| People (including cars and farm eqpt) | 3.3% |
| Unknown | 2.6% |
| Other | 2.1% |

ADDENDUM TO SERVICE QUALITY REPORT

SWEPCO has initiated a number of programs to make the system less susceptible to outages due to weather, vegetation, and other causes. This includes vegetation management, grid modernization, asset maintenance and replacements, and other reliability initiatives. SWEPCO is improving its system through asset renewal efforts such as replacing poles at end of life, reconductoring circuits, and installing smart switches. SWEPCO analyzes circuit performance data to plan vegetation management work and other circuit improvement activities, and to identify opportunities to add technology to aid in identifying and isolating faults. SWEPCO inspects 20% of the overhead and underground systems annually to identify any critical defects and plans maintenance according to the findings. Additionally, SWEPCO monitors and forecasts circuit loading to identify needed facility upgrades or circuit reconfigurations.

Grid modernization is designed to improve reliability, to harden the distribution system, and to decrease the breadth and impact of outages. SWEPCO's program includes projects such as building and implementing distribution automated circuit reconfiguration (DACR) which automatically detects, minimizes the size of, and provides information about outages; obsolete breaker replacement; installation of SCADA-connected fault sensors; and larger-scale system rehabilitation and renewal projects.

SWEPCO's planning approach integrates forestry and asset improvement when evaluating system performance and determining how to address problem areas and allocate budgets. The shift to this integrated approach enabled SWEPCO to complete more miles of vegetation management in 2021 and 2020 than 2019 despite rising resource costs. The balancing of costs and reliability is important because poorly performing feeders often extend for miles in rural areas of the service territory, which significantly exposes the feeder to disruptive events. Investments in long, rural feeders improves feeder performance but results in a relatively small difference in reliability at the system level.

Pursuant to the Revised Settlement Agreement and Final Order in Docket No. 52116¹, SWEPCO provides this update on the programs detailed in its response to Staff RFI questions 1-6 through 1-10 to address weather-related outages, vegetation management, grid modernization, and other measures taken to improve system reliability. SWEPCO completed a substantial number of reliability projects during 2021, including:

Mount Vernon DACR: SWEPCO replaced three breakers in its Mount Vernon substation and installed five intellirupters (smart switches) on the circuits, to automatically detect, minimize the size of, and provide information about outages.

Louisiana Pacific and Carthage circuits: SWEPCO installed intellirupters on two circuits.

Fault circuit indicators: SWEPCO commissioned 130 fault circuit indicators to aid communication and rapid outage identification.

Worst-performing circuits: SWEPCO targets worst-performing circuits for rehabilitation to improve reliability. Replacing aging infrastructure and equipment reduces susceptibility to

¹ See Revised Settlement Agreement paragraph 9e and Ordering Paragraph 6, dated August 13, 2021 and November 2, 2021, respectively.

outages during inclement weather. During 2021, the Company rebuilt 9.5 miles of distribution circuit from Friars Switch substation, spent \$750 thousand on other, smaller circuit rehabilitation projects, and replaced 1,706 poles.

Substation rehabilitation and improvement: SWEPCO completed or advanced multiple substation improvement projects consisting of installation or replacement of transformers, breakers, regulators, switches, and other equipment:

- Grand Saline – SWEPCO replaced aging assets including two distribution transformers, distribution and transmission breakers, regulators, and transmission switches. SWEPCO also added SCADA control to the equipment at the station, allowing operations to recover circuits faster through remote communication and control.
- North Mineola – SWEPCO replaced the transmission breakers and switches, and upgraded line relaying and breaker controls.
- Quitman – SWEPCO added a new transmission breaker to the protection scheme. The addition of the third breaker will increase the reliability of this substation by protecting the station against faults on the Quitman-to-North Mineola transmission line.
- Richmond Road – SWEPCO replaced one distribution transformer during 2021. Additional engineering and construction will occur in 2022 and 2023.
- Sabine – SWEPCO completed the engineering of the Sabine substation rebuild. Construction will begin in 2022.

Vegetation management: SWEPCO completed over 400 miles of vegetation trimming during 2021. SWEPCO completed 283 miles using specialized Jarraff equipment, and 163 miles by other means such as bucket trucks and manual trimming. Closer integration of forestry and asset improvement when evaluating system performance enabled SWEPCO to trim more miles in 2021 and 2020 than in 2019. The Company recently received Commission approval in Docket No. 51415 to increase its forestry spending beginning in 2022.

AMS deployment: In August 2021, SWEPCO submitted its Advanced Metering System (AMS) Deployment Plan proposal to the Commission in Docket No. 52389. The parties in the proceeding have reached a unanimous settlement. If the Commission approves the settlement, deployment would begin in the second quarter of 2022 and would provide SWEPCO and its customers more granular and timely information regarding electricity usage.

Clarksville 963670: This circuit originates from a SWEPCO substation in Gregg County. It is 23.5 miles long and serves 115 customers. This circuit sustained SAIDI results of 1,816 in 2019 and 1,545 in 2020. SWEPCO trimmed the entirety of this circuit in 2020 to improve its reliability. As a result, SAIDI and SAIFI declined substantially in 2021.

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