

Niveles de corto circuito de media tensión en las RGD,  
correspondientes al año 2020



NOTA: Con base a niveles de corto circuito de la Red Nacional de Transmisión 2020, publicado por el CENACE en Diciembre 2017

| División        | Zona         | Acronimo   | Subestación             | Banco        | Tensión A (kV) | Tensión MT (kV) | Capacidad en MVA | Corriente de corto circuito (kA), y relación X/R |       |      |       |                         |       |      |       |
|-----------------|--------------|------------|-------------------------|--------------|----------------|-----------------|------------------|--|-------|------|-------|-------------------------|-------|------|-------|
|                 |              |            |                         |              |                |                 |                  | Nivel de CC mínimo 2020                          |       |      |       | Nivel de CC máximo 2020 |       |      |       |
|                 |              |            |                         |              |                |                 |                  | 3F   | X/R   | 1F   | X/R   | 3F                      | X/R   | 1F   | X/R   |
| Baja California | Ensenada     | 07-SVE-115 | SAN VICENTE             | 07-SVE-115-1 | 115            | 34.5            | 6.25             | 0.67   | 14.79 | 0.69 | 16.11 | 0.68                    | 14.99 | 0.69 | 16.28 |
| Baja California | Constitución | 07-BAS-115 | BANJA ASUNCIÓN          | 07-BAS-115-1 | 115            | 34.5            | 9.375            | 0.63   | 6.92  | 0.76 | 7.58  | 0.78                    | 8.34  | 0.80 | 8.17  |
| Baja California | Constitución | 07-BAS-115 | BAHIA ASUNCIÓN          | 07-BAS-115-2 | 115            | 34.5            | 9.375            | 0.64   | 6.50  | 0.78 | 7.46  | 0.80                    | 6.83  | 0.93 | 8.03  |
| Baja California | San Luis     | 04-AGS-115 | AGRICOLA SONOYA         | 04-AGS-115-1 | 115            | 34.5            | 9.375            | 0.81   | 5.95  | 0.94 | 7.08  | 0.86                    | 7.02  | 0.99 | 8.30  |
| Baja California | Ensenada     | 07-MND-115 | MANADERO                | 07-MND-115-3 | 115            | 34.5            | 6.25             | 0.89   | 18.02 | 0.90 | 18.61 | 0.90                    | 18.38 | 0.91 | 18.87 |
| Baja California | Los Cabos    | 07-SNT-115 | SANTIAGO                | 07-SNT-115-2 | 115            | 34.5            | 6.25             | 0.90   | 11.96 | 0.94 | 13.63 | 0.92                    | 13.09 | 0.95 | 14.86 |
| Baja California | Constitución | 07-VIZ-115 | VIZCAINO                | 07-VIZ-115-2 | 115            | 34.5            | 9.375            | 0.75   | 11.68 | 0.87 | 12.86 | 0.96                    | 13.07 | 1.08 | 18.30 |
| Baja California | Constitución | 07-VIZ-115 | VIZCAINO                | 07-VIZ-115-1 | 115            | 34.5            | 9.375            | 0.77   | 11.56 | 0.90 | 12.73 | 1.01                    | 17.69 | 1.11 | 18.25 |
| Baja California | Los Cabos    | 07-SNT-115 | SANTIAGO                | 07-SNT-115-1 | 115            | 34.5            | 6.25             | 1.00   | 11.43 | 1.05 | 13.12 | 1.03                    | 12.58 | 1.07 | 14.19 |
| Baja California | Constitución | 07-LAP-115 | LAS PILAS               | 07-LAP-115-1 | 115            | 34.5            | 9.375            | 1.14   | 13.31 | 1.19 | 14.80 | 1.18                    | 14.74 | 1.22 | 16.04 |
| Baja California | Ensenada     | 07-SQN-115 | SAN QUINTIN             | 07-SQN-115-2 | 115            | 34.5            | 9.375            | 1.20   | 7.00  | 1.33 | 8.44  | 1.21                    | 7.09  | 1.34 | 8.54  |
| Baja California | Ensenada     | 07-COE-115 | COLONET                 | 07-COE-115-1 | 115            | 34.5            | 6.25             | 1.21   | 10.06 | 1.30 | 11.75 | 1.22                    | 10.23 | 1.30 | 11.92 |
| Baja California | La Paz       | 07-ETR-115 | EL TRIUNFO              | 07-ETR-115-1 | 115            | 34.5            | 9.375            | 1.20   | 12.34 | 1.25 | 13.96 | 1.24                    | 14.05 | 1.28 | 15.47 |
| Baja California | Constitución | 07-SRI-115 | SANTA ROSALIA I         | 07-SRI-115-7 | 115            | 34.5            | 20               | 0.96   | 9.87  | 1.18 | 10.86 | 1.30                    | 14.05 | 1.50 | 15.08 |
| Baja California | Ensenada     | 07-SMN-115 | SAN SIMON               | 07-SMN-115-1 | 115            | 34.5            | 20               | 1.51   | 5.93  | 1.52 | 7.09  | 1.32                    | 5.99  | 1.52 | 7.17  |
| Baja California | Ensenada     | 07-SQN-115 | SAN QUINTIN             | 07-SQN-115-1 | 115            | 34.5            | 20               | 1.43   | 6.23  | 1.62 | 7.51  | 1.44                    | 6.31  | 1.63 | 7.60  |
| Baja California | San Luis     | 04-SNY-115 | SONOYA                  | 04-SNY-115-1 | 115            | 34.5            | 20               | 1.30   | 4.90  | 1.59 | 5.73  | 1.44                    | 6.04  | 1.72 | 7.07  |
| Baja California | La Paz       | 07-ETR-115 | EL TRIUNFO              | 07-ETR-115-2 | 115            | 34.5            | 14               | 1.57   | 11.01 | 1.67 | 12.68 | 1.65                    | 12.79 | 1.72 | 14.35 |
| Baja California | Constitución | 07-DOM-115 | SANTO DOMINGO           | 07-DOM-115-1 | 115            | 34.5            | 20               | 1.69   | 9.36  | 1.87 | 10.89 | 1.82                    | 11.63 | 1.97 | 13.16 |
| Baja California | Constitución | 07-VIO-115 | VILLA CONSTITUCION      | 07-VIO-115-3 | 115            | 34.5            | 20               | 1.74   | 12.27 | 1.85 | 13.80 | 1.87                    | 15.95 | 1.95 | 16.99 |
| Baja California | Los Cabos    | 07-SJC-115 | SAN JOSE DEL CABO       | 07-SJC-115-1 | 115            | 34.5            | 12.5             | 2.02   | 11.73 | 2.15 | 13.34 | 2.14                    | 14.95 | 2.24 | 16.19 |
| Baja California | Ensenada     | 07-MND-115 | MANADERO                | 07-MND-115-2 | 115            | 34.5            | 6.25             | 2.27   | 17.05 | 2.41 | 19.29 | 2.32                    | 18.51 | 2.41 | 20.26 |
| Baja California | Constitución | 07-PES-115 | PUERTO ESCONDIDO        | 07-PES-115-1 | 115            | 34.5            | 9.375            | 2.37   | 7.64  | 2.66 | 9.07  | 2.47                    | 8.42  | 2.74 | 9.93  |
| Baja California | Constitución | 07-INS-115 | INSURGENTES             | 07-INS-115-1 | 115            | 34.5            | 30               | 2.25   | 8.62  | 2.52 | 10.08 | 2.50                    | 11.24 | 2.72 | 12.77 |
| Baja California | Tijuana      | 07-ENL-69  | ENCINAL                 | 07-ENL-69-1  | 69             | 34.5            | 30               | 2.61   | 11.82 | 2.79 | 13.22 | 2.52                    | 11.88 | 2.79 | 13.28 |
| Baja California | Constitución | 07-VIO-115 | VILLA CONSTITUCION      | 07-VIO-115-1 | 115            | 34.5            | 20               | 2.35   | 10.78 | 2.58 | 12.31 | 2.61                    | 14.78 | 2.79 | 15.99 |
| Baja California | Ensenada     | 07-VLP-69  | VALLE DE GUADALUPE      | 07-VLP-69-1  | 69             | 34.5            | 9.375            | 2.96   | 19.14 | 3.07 | 21.27 | 3.06                    | 21.38 | 3.17 | 23.37 |
| Baja California | Mexicali     | 07-SAF-115 | SAN FELIPE              | 07-SAF-115-2 | 115            | 34.5            | 20               | 2.95   | 7.71  | 3.23 | 9.26  | 2.96                    | 7.76  | 3.23 | 9.32  |
| Baja California | Mexicali     | 07-SAF-115 | SAN FELIPE              | 07-SAF-115-1 | 115            | 34.5            | 20               | 2.98   | 5.66  | 3.51 | 6.70  | 2.98                    | 5.68  | 3.51 | 6.73  |
| Baja California | Mexicali     | 07-SAF-115 | SAN FELIPE              | 07-SAF-115-1 | 115            | 34.5            | 20               | 3.02   | 5.59  | 3.59 | 6.62  | 3.03                    | 5.62  | 3.58 | 6.65  |
| Baja California | San Luis     | 04-LPN-115 | LA PINTA                | 04-LPN-115-1 | 115            | 34.5            | 9.375            | 2.87   | 9.04  | 3.09 | 10.70 | 3.08                    | 12.28 | 3.25 | 13.87 |
| Baja California | Constitución | 07-LRO-115 | LA ROSA                 | 07-LRO-115-1 | 115            | 34.5            | 20               | 3.06   | 19.14 | 3.17 | 21.27 | 3.16                    | 21.38 | 3.27 | 23.37 |
| Baja California | Los Cabos    | 07-SJC-115 | SAN JOSE DEL CABO       | 07-SJC-115-2 | 115            | 34.5            | 20               | 3.02   | 9.74  | 3.31 | 11.30 | 3.30                    | 13.16 | 3.53 | 14.59 |
| Baja California | La Paz       | 07-REA-115 | REFORMAS AGRARIAS       | 07-REA-115-1 | 115            | 34.5            | 8.4              | 3.28   | 12.44 | 3.47 | 14.00 | 3.38                    | 13.60 | 3.55 | 15.04 |
| Baja California | Ensenada     | 07-ONG-69  | OJOS NEGROS             | 07-ONG-69-1  | 69             | 34.5            | 20               | 3.39   | 4.54  | 4.13 | 5.33  | 3.40                    | 4.56  | 4.14 | 5.36  |
| Baja California | Ensenada     | 07-TRI-115 | TRINIDAD                | 07-TRI-115-1 | 115            | 34.5            | 12.5             | 3.45   | 8.49  | 3.79 | 10.05 | 3.46                    | 8.59  | 3.80 | 10.16 |
| Baja California | Ensenada     | 07-MND-115 | MANADERO                | 07-MND-115-2 | 115            | 34.5            | 6.25             | 3.69   | 17.05 | 3.83 | 19.29 | 3.76                    | 17.55 | 3.82 | 18.27 |
| Baja California | Mexicali     | 07-CY-161  | CETYS                   | 07-CY-161-2  | 161            | 34.5            | 40               | 3.68   | 18.59 | 3.74 | 19.02 | 3.71                    | 18.67 | 3.76 | 19.07 |
| Baja California | Mexicali     | 07-CTA-69  | CENTINELA               | 07-CTA-69-1  | 69             | 34.5            | 12.5             | 3.78   | 9.33  | 4.17 | 10.85 | 3.78                    | 9.35  | 4.18 | 10.88 |
| Baja California | Los Cabos    | 07-CAF-115 | CABO FALSO              | 07-CAF-115-1 | 115            | 34.5            | 30               | 3.61   | 14.16 | 3.76 | 15.55 | 3.81                    | 17.73 | 3.90 | 18.39 |
| Baja California | Los Cabos    | 07-CAB-115 | CABO BELLO              | 07-CAB-115-1 | 115            | 34.5            | 20               | 3.63   | 13.53 | 3.79 | 15.00 | 3.81                    | 16.81 | 3.92 | 17.69 |
| Baja California | San Luis     | 07-CP-230  | CAPULTEPEC DE POTENCIA  | 07-CP-230-2  | 230            | 34.5            | 9.375            | 3.96   | 23.20 | 4.03 | 25.36 | 4.03                    | 25.36 | 4.04 | 25.36 |
| Baja California | Ensenada     | 07-VLP-69  | VALLE DE GUADALUPE      | 07-VLP-69-2  | 69             | 34.5            | 12.5             | 3.96   | 6.36  | 4.47 | 7.67  | 3.97                    | 6.40  | 4.48 | 7.72  |
| Baja California | Mexicali     | 07-CRO-161 | CENTRO                  | 07-CRO-161-2 | 161            | 34.5            | 37.5             | 4.27   | 18.71 | 4.29 | 19.10 | 4.29                    | 18.83 | 4.35 | 19.19 |
| Baja California | Los Cabos    | 07-CAB-115 | CABO BELLO              | 07-CAB-115-2 | 115            | 34.5            | 30               | 4.30   | 12.77 | 4.53 | 14.31 | 4.55                    | 16.30 | 4.71 | 17.29 |
| Baja California | Tijuana      | 07-MSN-115 | MISSION                 | 07-MSN-115-1 | 115            | 34.5            | 20               | 4.57   | 14.78 | 4.83 | 16.01 | 4.62                    | 15.16 | 4.87 | 16.34 |
| Baja California | Mexicali     | 07-TEK-230 | TECNOLOGICO             | 07-TEK-230-1 | 230            | 34.5            | 9.375            | 4.30   | 14.63 | 4.50 | 16.30 | 4.50                    | 16.30 | 4.71 | 17.29 |
| Baja California | San Luis     | 04-PYE-115 | PLAYA ENCANTO           | 04-PYE-115-1 | 115            | 34.5            | 20               | 4.15   | 7.23  | 4.64 | 8.65  | 4.66                    | 10.60 | 5.04 | 12.19 |
| Baja California | Mexicali     | 07-TEK-230 | TECNOLOGICO             | 07-TEK-230-3 | 230            | 34.5            | 50               | 4.68   | 18.39 | 4.74 | 18.87 | 4.68                    | 18.59 | 4.75 | 19.02 |
| Baja California | Los Cabos    | 07-SJC-115 | SAN JOSE DEL CABO       | 07-SJC-115-3 | 115            | 34.5            | 20               | 4.59   | 12.20 | 4.84 | 13.79 | 4.83                    | 15.33 | 5.02 | 16.51 |
| Baja California | Los Cabos    | 07-SJC-115 | SAN JOSE DEL CABO       | 07-SJC-115-4 | 115            | 34.5            | 20               | 4.69   | 12.09 | 4.96 | 13.69 | 4.95                    | 15.24 | 5.15 | 16.43 |
| Baja California | San Luis     | 04-PPA-115 | PUERTO PENASCO          | 04-PPA-115-1 | 115            | 34.5            | 20               | 5.06   | 19.14 | 5.17 | 21.27 | 5.16                    | 21.38 | 5.27 | 23.37 |
| Baja California | Tijuana      | 07-GER-69  | GUERRERO                | 07-GER-69-2  | 69             | 34.5            | 20               | 5.58   | 17.18 | 5.69 | 17.99 | 5.60                    | 17.43 | 5.71 | 18.17 |
| Baja California | Tijuana      | 07-FLO-69  | FLORIDO                 | 07-FLO-69-1  | 69             | 34.5            | 12.5             | 5.67   | 16.51 | 5.77 | 17.46 | 5.62                    | 16.66 | 5.78 | 17.58 |
| Baja California | Mexicali     | 07-CRO-161 | CENTRO                  | 07-CRO-161-1 | 161            | 34.5            | 40               | 5.67   | 18.33 | 5.79 | 18.82 | 5.71                    | 18.48 | 5.82 | 18.93 |
| Baja California | Tijuana      | 07-TJJ-69  | TIJUANA I               | 07-TJJ-69-1  | 69             | 34.5            | 20               | 5.92   | 18.85 | 5.99 | 19.20 | 5.93                    | 19.03 | 6.00 | 19.35 |
| Baja California | San Luis     | 04-CRI-115 | CRIATE                  | 04-CRI-115-1 | 115            | 34.5            | 20               | 5.96   | 13.97 | 6.33 | 15.69 | 6.36                    | 15.68 | 6.58 | 17.15 |
| Baja California | San Luis     | 04-LCH-115 | LA CHOLLA               | 04-LCH-115-1 | 115            | 34.5            | 30               | 5.97   | 6.25  | 5.86 | 7.44  | 5.96                    | 9.81  | 6.62 | 11.31 |
| Baja California | Tijuana      | 07-TC-69   | TECATE DOS              | 07-TC-69-1   | 69             | 34.5            | 30               | 5.96   | 13.97 | 6.31 | 15.32 | 5.97                    | 14.08 | 6.32 | 15.42 |
| Baja California | Tijuana      | 07-TJJ-69  | TIJUANA I               | 07-TJJ-69-2  | 69             | 34.5            | 20               | 5.97   | 18.84 | 6.04 | 19.19 | 5.98                    | 19.05 | 6.05 | 19.34 |
| Baja California | Mexicali     | 07-MXI-161 | MEXICALI DOS            | 07-MXI-161-4 | 161            | 34.5            | 40               | 6.01   | 18.48 | 6.13 | 18.93 | 6.13                    | 18.22 | 6.19 | 18.58 |
| Baja California | Mexicali     | 07-MXI-161 | MEXICALI DOS            | 07-MXI-161-5 | 161            | 34.5            | 40               | 6.05   | 18.47 | 6.17 | 18.93 | 6.17                    | 18.22 | 6.21 | 18.58 |
| Baja California | Mexicali     | 07-MXI-161 | MEXICALI DOS            | 07-MXI-161-3 | 161            | 34.5            | 40               | 6.06   | 18.47 | 6.18 | 18.93 | 6.18                    | 18.22 | 6.21 | 18.58 |
| Baja California | Mexicali     | 07-MOE-161 | MEXICALI ORIENTE        | 07-MOE-161-2 | 161            | 34.5            | 50               | 6.07   | 17.23 | 6.27 | 18.00 | 6.19                    | 17.21 | 6.35 | 18.00 |
| Baja California | Mexicali     | 07-GOR-161 | GONZALEZ ORTEGA         | 07-GOR-161-2 | 161            | 34.5            | 50               | 6.12   | 17.59 | 6.29 | 18.28 | 6.19                    | 17.65 | 6.34 | 18.33 |
| Baja California | San Luis     | 04-PPA-115 | PUERTO PENASCO          | 04-PPA-115-2 | 115            | 34.5            | 30               | 5.26   | 6.20  | 6.06 | 7.39  | 6.22                    | 9.17  | 6.88 | 8.17  |
| Baja California | Tijuana      | 07-GER-69  | GUERRERO                | 07-GER-69-1  | 69             | 34.5            | 20               | 6.20   | 19.90 | 6.27 | 21.07 | 6.27                    | 21.07 | 6.27 | 21.07 |
| Baja California | Tijuana      | 07-BAJ-69  | EL BAJIO                | 07-BAJ-69-1  | 69             | 34.5            | 30               | 6.48   | 9.39  | 7.11 | 10.95 | 6.49                    | 9.44  | 7.13 | 11.00 |
| Baja California | Los Cabos    | 07-PML-115 | PALLILLA                | 07-PML-115-1 | 115            | 34.5            | 30               | 6.12   | 10.71 | 6.63 | 12.30 | 6.58                    | 13.98 | 6.98 | 15.33 |
| Baja California | Tijuana      | 07-FLO-69  | FLORIDO                 | 07-FLO-69-2  | 69             | 34.5            | 20               | 6.58   | 16.03 | 6.81 | 17.08 | 6.60                    | 16.19 | 6.82 | 17.21 |
| Baja California | La Paz       | 07-CAR-115 | CARMON REAL             | 07-CAR-115-1 | 115            | 34.5            | 30               | 6.13   | 9.59  | 6.70 | 11.18 | 6.62                    | 11.74 | 7.07 | 13.33 |
| Baja California | Ensenada     | 07-SAZ-115 | SAUZAL                  | 07-SAZ-115-1 | 115            | 34.5            | 20               | 6.54   | 12.76 | 6.53 | 12.76 | 6.54                    | 12.76 | 6.54 | 12.76 |
| Baja California | Tijuana      | 07-VPM-69  | VALLE LAS PALMAS        | 07-VPM-69-2  | 69             | 34.5            | 20               | 6.69   | 4.80  | 7.73 | 5.84  | 6.72                    | 4.81  | 7.75 | 5.86  |
| Baja California | San Luis     | 07-CHQ-230 | CHAPULTEPEC DE POTENCIA | 07-CHQ-230-1 | 230            | 34.5            | 50               | 6.69   | 17.04 | 6.93 | 17.85 | 6.74                    | 17.33 | 6.97 | 18.07 |
| Baja California | Tijuana      | 07-TC-69   | TECATE UNO              | 07-TC-69-2   | 69             | 34.5            | 30               | 6.73   | 12.32 | 7.25 | 13.82 | 6.75                    | 12.42 | 7.26 | 13.91 |
| Baja California | Ensenada     | 07-JAT-115 | JATATE                  | 07-JAT-115-1 | 115            | 34.5            | 30               | 6.68   | 13.43 | 7.20 | 14.80 | 6.78                    | 13.87 | 7.27 | 15.19 |
| Baja California | Los Cabos    | 07-CAB-115 | CABO REAL               | 07-CAB-115-3 | 115            | 3               |                  |  |       |      |       |                         |       |      |       |

Niveles de corto circuito de media tensión en las RGD,  
correspondientes al año 2020



NOTA: Con base a niveles de corto circuito de la Red Nacional de Transmisión 2020, publicado por el CENACE en Diciembre 2017

| División        | Zona             | Acronimo   | Subestación              | Banco        | Tensión AT (kV) | Tensión MT (kV) | Capacidad en MVA | Corriente de corto circuito (kA), y relación X/R |       |       |       |                         |       |       |       |
|-----------------|------------------|------------|--------------------------|--------------|-----------------|-----------------|------------------|--|-------|-------|-------|-------------------------|-------|-------|-------|
|                 |                  |            |                          |              |                 |                 |                  | Nivel de CC mínimo 2020                          |       |       |       | Nivel de CC máximo 2020 |       |       |       |
|                 |                  |            |                          |              |                 |                 |                  | 3F   | X/R   | 1F    | X/R   | 3F                      | X/R   | 1F    | X/R   |
| Baja California | Tijuana          | 07-MEP-69  | METROPOLI                | 07-MEP-69-1  | 69              | 13.8            | 30               | 8.53   | 18.25 | 8.69  | 18.77 | 8.57                    | 18.56 | 8.72  | 18.99 |
| Baja California | Tijuana          | 07-MEP-69  | METROPOLI                | 07-MEP-69-4  | 69              | 13.8            | 30               | 8.54   | 18.25 | 8.70  | 18.77 | 8.58                    | 18.56 | 8.73  | 18.99 |
| Baja California | Tijuana          | 07-LND-69  | UNIVERSIDAD              | 07-LND-69-1  | 69              | 13.8            | 30               | 8.59   | 14.86 | 8.94  | 16.13 | 8.62                    | 15.13 | 8.97  | 16.34 |
| Baja California | Tijuana          | 07-PAF-69  | PACIFICO                 | 07-PAF-69-1  | 69              | 13.8            | 30               | 8.63   | 17.14 | 8.85  | 17.94 | 8.67                    | 17.49 | 8.88  | 18.21 |
| Baja California | Tijuana          | 07-LMS-69  | LA MESA                  | 07-LMS-69-2  | 69              | 13.8            | 30               | 8.67   | 16.31 | 8.90  | 17.31 | 8.70                    | 16.62 | 8.92  | 17.55 |
| Baja California | Tijuana          | 07-LMS-69  | LA MESA                  | 07-LMS-69-3  | 69              | 13.8            | 30               | 8.81   | 16.26 | 9.05  | 17.27 | 8.84                    | 16.57 | 9.07  | 17.51 |
| Baja California | Tijuana          | 07-FTA-69  | FRONTERA                 | 07-FTA-69-1  | 69              | 13.8            | 30               | 8.93   | 16.42 | 9.09  | 17.39 | 8.96                    | 16.69 | 9.11  | 17.60 |
| Baja California | Tijuana          | 07-RUB-69  | EL RUBI                  | 07-RUB-69-3  | 69              | 13.8            | 30               | 8.88   | 18.18 | 9.07  | 18.72 | 8.93                    | 18.62 | 9.10  | 19.04 |
| Baja California | Mexicali         | 07-MOE-161 | MEXICALI ORIENTE         | 07-MOE-161-1 | 161             | 13.8            | 30               | 8.99   | 18.26 | 9.16  | 18.77 | 9.09                    | 18.25 | 9.23  | 18.78 |
| Baja California | Tijuana          | 07-RUB-69  | EL RUBI                  | 07-RUB-69-2  | 69              | 13.8            | 30               | 9.08   | 18.14 | 9.27  | 18.69 | 9.13                    | 18.60 | 9.30  | 19.02 |
| Baja California | Mexicali         | 07-RIN-161 | RIO NUEVO                | 07-RIN-161-1 | 161             | 13.8            | 40               | 9.35   | 18.62 | 9.50  | 19.04 | 9.39                    | 18.73 | 9.53  | 19.11 |
| Baja California | Mexicali         | 07-CNZ-161 | CARRANZA                 | 07-CNZ-161-1 | 161             | 13.8            | 35               | 9.34   | 18.41 | 9.51  | 18.88 | 9.41                    | 18.47 | 9.56  | 18.93 |
| Baja California | Mexicali         | 07-NZI-161 | NACCOZARI                | 07-NZI-161-1 | 161             | 13.8            | 40               | 9.35   | 18.20 | 9.53  | 18.73 | 9.41                    | 18.28 | 9.57  | 18.79 |
| Baja California | San Luis         | 07-CPU-161 | FERTIMEX                 | 07-CPU-161-1 | 161             | 13.8            | 30               | 9.45   | 18.02 | 9.67  | 18.60 | 9.50                    | 18.00 | 9.70  | 18.59 |
| Baja California | Mexicali         | 07-NZI-161 | NACCOZARI                | 07-NZI-161-2 | 161             | 13.8            | 40               | 9.51   | 18.17 | 9.70  | 18.71 | 9.57                    | 18.25 | 9.74  | 18.77 |
| Baja California | Mexicali         | 07-RIN-161 | RIO NUEVO                | 07-RIN-161-2 | 161             | 13.8            | 40               | 9.64   | 18.58 | 9.80  | 19.01 | 9.68                    | 18.69 | 9.83  | 19.09 |
| Baja California | La Paz           | 07-LPZ-115 | LA PAZ                   | 07-LPZ-115-1 | 115             | 13.8            | 40               | 8.89   | 10.08 | 9.79  | 11.61 | 9.67                    | 13.22 | 10.56 | 14.64 |
| Baja California | Tijuana          | 07-MXC-69  | MEXICO                   | 07-MXC-69-2  | 69              | 13.8            | 30               | 9.94   | 14.83 | 10.33 | 16.11 | 10.00                   | 15.16 | 10.37 | 16.38 |
| Baja California | Mexicali         | 07-CY-230  | CETYS                    | 07-CY-230-5  | 230             | 13.8            | 40               | 9.99   | 18.21 | 10.17 | 18.74 | 10.03                   | 18.40 | 10.20 | 18.88 |
| Baja California | Mexicali         | 07-TEK-230 | TECNOLOGICO              | 07-TEK-230-2 | 230             | 13.8            | 40               | 10.00  | 18.60 | 10.14 | 19.03 | 10.03                   | 18.78 | 10.16 | 19.15 |
| Baja California | La Paz           | 07-LPZ-115 | LA PAZ                   | 07-LPZ-115-2 | 115             | 13.8            | 40               | 9.93   | 9.80  | 11.33 | 11.36 | 10.43                   | 11.19 | 11.19 | 14.41 |
| Baja California | San Luis         | 07-PID-161 | PARQUE INDUSTRIAL        | 07-PID-161-2 | 161             | 13.8            | 40               | 10.39  | 16.72 | 10.80 | 17.60 | 10.45                   | 16.87 | 10.84 | 17.72 |
| Baja California | San Luis         | 07-HGO-161 | HIDALGO                  | 07-HGO-161-1 | 161             | 13.8            | 40               | 10.39  | 15.72 | 10.85 | 16.81 | 10.45                   | 15.83 | 10.89 | 16.90 |
| Baja California | Mexicali         | 07-XCO-230 | XOCHIMILCO POTENCIA      | 07-XCO-230-2 | 230             | 13.8            | 50               | 10.49  | 18.94 | 10.61 | 19.26 | 10.53                   | 19.11 | 10.63 | 19.38 |
| Baja California | San Luis         | 07-PID-230 | PARQUE INDUSTRIAL        | 07-PID-230-1 | 230             | 13.8            | 50               | 10.57  | 13.98 | 11.49 | 15.24 | 10.70                   | 14.25 | 11.59 | 15.48 |
| Baja California | Mexicali         | 07-KCH-161 | KANABUENA                | 07-KCH-161-1 | 161             | 13.8            | 40               | 10.73  | 16.67 | 11.12 | 19.07 | 11.08                   | 17.99 | 11.25 | 19.02 |
| Baja California | Mexicali         | 07-CRO-161 | CENTRO                   | 07-CRO-161-3 | 161             | 13.8            | 40               | 11.03  | 18.67 | 11.21 | 19.07 | 11.08                   | 17.99 | 11.25 | 19.16 |
| Baja California | Mexicali         | 07-GOR-161 | GONZALEZ ORTEGA          | 07-GOR-161-1 | 161             | 13.8            | 40               | 11.20  | 18.17 | 11.43 | 18.71 | 11.30                   | 18.22 | 11.50 | 18.75 |
| Baja California | Mexicali         | 07-PKD-161 | PACKARD                  | 07-PKD-161-1 | 161             | 13.8            | 40               | 11.32  | 18.39 | 11.53 | 18.87 | 11.40                   | 18.51 | 11.58 | 18.96 |
| Baja California | Mexicali         | 07-CRO-161 | CENTRO                   | 07-CRO-161-2 | 161             | 13.8            | 40               | 11.44  | 18.62 | 11.64 | 19.04 | 11.50                   | 18.75 | 11.68 | 19.13 |
| Baja California | Mexicali         | 07-SIS-161 | SAN ISABEL               | 07-SIS-161-1 | 161             | 13.8            | 40               | 11.48  | 19.01 | 11.62 | 19.39 | 11.52                   | 18.63 | 11.66 | 19.39 |
| Baja California | Mexicali         | 07-PKD-161 | PACKARD                  | 07-PKD-161-2 | 161             | 13.8            | 40               | 11.84  | 18.32 | 12.07 | 18.82 | 11.93                   | 18.45 | 12.13 | 18.92 |
| Baja California | Mexicali         | 07-OZA-230 | ORIZABA                  | 07-OZA-230-2 | 230             | 13.8            | 40               | 14.12  | 18.58 | 14.34 | 19.01 | 14.19                   | 18.78 | 14.39 | 19.15 |
| Bajo            | Zacatecas        | 03-BLA-110 | BOLANOS                  | 03-BLA-110-1 | 110             | 34.5            | 9.375            | 0.97   | 5.28  | 1.08  | 6.55  | 0.97                    | 5.29  | 1.08  | 6.57  |
| Bajo            | Fresnillo        | 03-FRN-115 | FRESNILLO NORTE          | 03-FRN-115-2 | 115             | 34.5            | 9.25             | 0.98   | 4.75  | 0.99  | 6.20  | 0.98                    | 4.77  | 0.99  | 6.20  |
| Bajo            | Zacatecas        | 03-VHO-115 | VILLA HIDALGO            | 03-VHO-115-1 | 115             | 34.5            | 9.4              | 1.13   | 6.25  | 1.16  | 7.75  | 1.12                    | 6.16  | 1.16  | 9.80  |
| Bajo            | Fresnillo        | 03-SJE-115 | SAN JERONIMO             | 03-SJE-115-1 | 115             | 34.5            | 9.375            | 1.18   | 11.35 | 1.23  | 13.05 | 1.18                    | 11.46 | 1.23  | 13.15 |
| Bajo            | San Juan del Rio | 03-BOQ-115 | BOQUILLA                 | 03-BOQ-115-1 | 115             | 34.5            | 9.375            | 1.19   | 16.16 | 1.22  | 17.21 | 1.20                    | 17.03 | 1.22  | 17.88 |
| Bajo            | Imiquilpan       | 03-ZIM-115 | ZIMAPAN                  | 03-ZIM-115-1 | 115             | 34.5            | 9.375            | 1.26   | 14.13 | 1.30  | 15.55 | 1.27                    | 14.97 | 1.31  | 16.25 |
| Bajo            | Fresnillo        | 03-HDZ-110 | HOS LERNAZ               | 03-HDZ-110-1 | 110             | 34.5            | 20               | 1.52   | 6.24  | 1.62  | 7.59  | 1.52                    | 6.41  | 1.70  | 7.78  |
| Bajo            | Zacatecas        | 03-TGO-115 | TEPETONGO                | 03-TGO-115-1 | 115             | 34.5            | 20               | 1.52   | 7.20  | 1.71  | 8.58  | 1.52                    | 7.27  | 1.72  | 8.65  |
| Bajo            | Zacatecas        | 03-TLO-110 | TLALTENANGO              | 03-TLO-110-1 | 110             | 34.5            | 20               | 1.65   | 9.04  | 1.80  | 10.63 | 1.65                    | 9.11  | 1.80  | 10.70 |
| Bajo            | Fresnillo        | 03-CHL-115 | CHALCHIHUITES            | 03-CHL-115-1 | 115             | 34.5            | 20               | 1.98   | 8.28  | 1.74  | 9.82  | 1.85                    | 10.00 | 1.79  | 11.80 |
| Bajo            | Aguascalientes   | 03-LGG-115 | LAGOS GALERA             | 03-LGG-115-1 | 115             | 34.5            | 30               | 1.78   | 14.48 | 1.85  | 15.83 | 1.78                    | 14.65 | 1.85  | 15.97 |
| Bajo            | Fresnillo        | 03-OJU-115 | OJUELOS                  | 03-OJU-115-2 | 115             | 34.5            | 12.5             | 1.80   | 9.39  | 1.95  | 11.02 | 1.82                    | 10.04 | 1.96  | 11.68 |
| Bajo            | Imiquilpan       | 03-TCZ-115 | TECOZAUHLA               | 03-TCZ-115-2 | 115             | 34.5            | 20               | 1.85   | 9.56  | 1.98  | 11.23 | 1.85                    | 9.79  | 1.99  | 11.47 |
| Bajo            | Queretaro        | 03-AET-115 | SE AEROTECH              | 03-AET-115-1 | 115             | 34.5            | 20               | 1.91   | 15.24 | 1.95  | 16.49 | 1.91                    | 15.39 | 1.95  | 16.61 |
| Bajo            | Zacatecas        | 03-GUA-115 | GUAJUAYATILLO            | 03-GUA-115-1 | 115             | 34.5            | 12.5             | 1.92   | 12.92 | 1.99  | 14.76 | 1.92                    | 13.24 | 1.99  | 15.41 |
| Bajo            | San Juan del Rio | 03-VIZ-110 | VIZARRON                 | 03-VIZ-110-1 | 110             | 34.5            | 12.5             | 1.98   | 10.64 | 2.10  | 12.34 | 1.99                    | 11.00 | 2.11  | 12.68 |
| Bajo            | Imiquilpan       | 03-PTI-115 | PUERTO INTERIOR          | 03-PTI-115-1 | 115             | 34.5            | 20               | 1.99   | 15.51 | 2.05  | 16.66 | 2.00                    | 15.75 | 2.05  | 16.88 |
| Bajo            | Queretaro        | 03-BVN-115 | BUENAVISTA NORTE         | 03-BVN-115-2 | 115             | 34.5            | 20               | 2.11   | 15.97 | 2.15  | 17.06 | 2.11                    | 16.19 | 2.15  | 17.24 |
| Bajo            | Queretaro        | 03-ARL-115 | AEROSPAZIAL              | 03-ARL-115-1 | 115             | 34.5            | 20               | 2.13   | 14.76 | 2.18  | 16.09 | 2.13                    | 14.92 | 2.18  | 16.22 |
| Bajo            | Queretaro        | 03-TYF-115 | TAYUQUAN                 | 03-TYF-115-1 | 115             | 34.5            | 20               | 2.17   | 15.52 | 2.20  | 16.72 | 2.17                    | 15.77 | 2.20  | 16.43 |
| Bajo            | Aguascalientes   | 03-ISF-115 | INDUSTRIAL SAN FRANCISCO | 03-ISF-115-1 | 115             | 34.5            | 20               | 2.17   | 16.95 | 2.22  | 17.82 | 2.18                    | 17.26 | 2.22  | 18.05 |
| Bajo            | Queretaro        | 03-PQN-115 | PARQUE INNOVACION        | 03-PQN-115-1 | 115             | 34.5            | 20               | 2.18   | 17.12 | 2.22  | 17.95 | 2.18                    | 17.31 | 2.22  | 18.09 |
| Bajo            | Queretaro        | 03-SFS-115 | SAN ILDEFONSO            | 03-SFS-115-1 | 115             | 34.5            | 20               | 2.19   | 15.84 | 2.23  | 16.97 | 2.20                    | 16.03 | 2.24  | 17.12 |
| Bajo            | Queretaro        | 03-ELR-115 | EL REALITO               | 03-ELR-115-1 | 115             | 34.5            | 30               | 2.32   | 11.22 | 2.55  | 12.70 | 2.32                    | 11.31 | 2.56  | 12.79 |
| Bajo            | San Juan del Rio | 03-BON-110 | BONANZA                  | 03-BON-110-2 | 110             | 34.5            | 20               | 2.39   | 12.92 | 2.49  | 14.86 | 2.39                    | 13.24 | 2.49  | 15.65 |
| Bajo            | Fresnillo        | 03-BON-110 | BONANZA                  | 03-BON-110-1 | 110             | 34.5            | 30               | 2.48   | 6.83  | 2.73  | 8.30  | 2.50                    | 7.16  | 2.74  | 8.66  |
| Bajo            | Fresnillo        | 03-MGU-115 | MIGUEL ALIZA             | 03-MGU-115-1 | 115             | 34.5            | 20               | 2.63   | 4.27  | 3.19  | 5.06  | 2.63                    | 4.29  | 3.19  | 5.07  |
| Bajo            | Imiquilpan       | 03-ZIM-115 | ZIMAPAN                  | 03-ZIM-115-1 | 115             | 34.5            | 12.5             | 2.62   | 12.71 | 2.74  | 14.29 | 2.65                    | 13.65 | 2.76  | 15.11 |
| Bajo            | Fresnillo        | 03-VPS-110 | VALPARAISO               | 03-VPS-110-1 | 110             | 34.5            | 9.375            | 2.75   | 7.75  | 3.00  | 9.30  | 2.75                    | 7.79  | 3.00  | 9.35  |
| Bajo            | Fresnillo        | 03-FAI-115 | FANTASIA                 | 03-FAI-115-1 | 115             | 34.5            | 12.5             | 2.77   | 4.60  | 3.02  | 4.76  | 2.77                    | 4.62  | 3.02  | 4.78  |
| Bajo            | Zacatecas        | 03-SNA-115 | SALINAS                  | 03-SNA-115-1 | 115             | 34.5            | 25               | 2.77   | 6.59  | 2.98  | 8.15  | 2.77                    | 6.82  | 2.98  | 8.19  |
| Bajo            | Imiquilpan       | 03-HUM-115 | HUMEDADES                | 03-HUM-115-1 | 115             | 34.5            | 20               | 2.86   | 6.53  | 3.17  | 7.94  | 2.90                    | 6.78  | 3.20  | 8.22  |
| Bajo            | Aguascalientes   | 03-JAP-115 | JALPA                    | 03-JAP-115-2 | 115             | 34.5            | 9.375            | 2.95   | 10.87 | 3.11  | 12.58 | 2.96                    | 10.94 | 3.11  | 12.65 |
| Bajo            | Imiquilpan       | 03-ZIM-115 | ZIMAPAN                  | 03-ZIM-115-2 | 115             | 34.5            | 20               | 2.94   | 12.16 | 3.09  | 13.78 | 2.98                    | 13.13 | 3.12  | 14.65 |
| Bajo            | Fresnillo        | 03-CAL-115 | CALERAS                  | 03-CAL-115-1 | 115             | 34.5            | 30               | 3.08   | 12.92 | 3.07  | 14.24 | 3.07                    | 13.47 | 3.07  | 14.61 |
| Bajo            | Imiquilpan       | 03-AIL-115 | AGRO INDUSTRIAL GTO      | 03-AIL-115-1 | 115             | 34.5            | 30               | 2.98   | 12.37 | 3.12  | 13.98 | 2.99                    | 12.58 | 3.13  | 14.17 |
| Bajo            | Queretaro        | 03-MQO-115 | MARQUES ORIENTE          | 03-MQO-115-1 | 115             | 34.5            | 30               | 2.99   | 16.51 | 3.06  | 17.47 | 2.99                    | 16.75 | 3.06  | 17.66 |
| Bajo            | Imiquilpan       | 03-SFD-115 | SANTA FE II              | 03-SFD-115-2 | 115             | 34.5            | 30               | 2.99   | 13.84 | 3.11  | 15.27 | 2.99                    | 14.12 | 3.11  | 15.51 |
| Bajo            | Queretaro        | 03-NGA-115 | LOS NOGALES              | 03-NGA-115-1 | 115             | 34.5            | 30               | 3.00   | 14.78 | 3.10  | 16.07 | 3.02                    | 15.36 | 3.12  | 16.55 |
| Bajo            | Imiquilpan       | 03-SFD-115 | SANTA FE II              | 03-SFD-115-1 | 115             | 34.5            | 30               | 3.02   | 13.78 | 3.14  | 15.23 | 3.02                    | 14.88 | 3.15  | 15.48 |
| Bajo            | Queretaro        | 03-CDR-115 | CASTRO DEL RIO           | 03-CDR-115-1 | 115             | 34.5            | 30               | 3.04   | 15.63 | 3.13  | 16.78 | 3.05                    | 16.02 | 3.13  | 17.09 |
| Bajo            | Salvatierra      | 03-JDP-115 | JARAL DEL PROGRESO       | 03-JDP-115-1 | 115             | 34.5            | 30               | 3.06   | 15.05 | 3.14  | 16.33 | 3.06                    | 15.16 | 3.14  | 16.42 |
| Bajo            | Zacatecas        | 03-PFN-115 | PANFILO NATERA           | 03-PFN-115-2 | 115             | 34.5            | 9.375            | 3.07   | 7.30  | 3.20  | 9.07  | 3.07                    | 7.35  | 3.20  | 9.12  |
| Bajo            | Queretaro        | 03-BNA-115 |                          |              |                 |                 |                  |  |       |       |       |                         |       |       |       |

Niveles de corto circuito de media tensión en las RGD,  
correspondientes al año 2020



NOTA: Con base a niveles de corto circuito de la Red Nacional de Transmisión 2020, publicado por el CENACE en Diciembre 2017

| División | Zona             | Acronimo   | Subestación                   | Banco        | Tensión AT (kV) | Tensión MT (kV) | Capacidad en MVA | Corriente de corto circuito (kA), y relación X/R |       |      |       |                         |       |      |       |
|----------|------------------|------------|-------------------------------|--------------|-----------------|-----------------|------------------|--|-------|------|-------|-------------------------|-------|------|-------|
|          |                  |            |                               |              |                 |                 |                  | Nivel de CC mínimo 2020                          |       |      |       | Nivel de CC máximo 2020 |       |      |       |
|          |                  |            |                               |              |                 |                 |                  | 3F   | X/R   | 1F   | X/R   | 3F                      | X/R   | 1F   | X/R   |
| Bajo     | Queretaro        | 03-SFS-115 | SAN ILDEFONSO                 | 03-SFS-115-3 | 115             | 13.8            | 20               | 5.03   | 16.12 | 5.11 | 17.19 | 5.03                    | 16.30 | 5.11 | 17.33 |
| Bajo     | Celaya           | 03-SCZ-115 | SANTA CRUZ                    | 03-SCZ-115-1 | 115             | 13.8            | 20               | 5.04   | 12.89 | 5.21 | 14.49 | 5.05                    | 12.98 | 5.21 | 14.57 |
| Bajo     | Queretaro        | 03-SRQ-115 | ORIGENA                       | 03-SRQ-115-2 | 115             | 13.8            | 20               | 5.06   | 12.23 | 5.29 | 13.87 | 5.08                    | 12.55 | 5.30 | 14.15 |
| Bajo     | Aguascalientes   | 03-VDL-115 | VALLE DE LAS DELICIAS         | 03-VDL-115-1 | 115             | 13.8            | 20               | 5.06   | 12.23 | 5.29 | 13.87 | 5.08                    | 12.55 | 5.30 | 14.15 |
| Bajo     | Celaya           | 03-DHD-115 | DOLORÉS HIDALGO               | 03-DHD-115-2 | 115             | 13.8            | 20               | 5.08   | 15.33 | 5.24 | 16.53 | 5.09                    | 15.49 | 5.24 | 16.67 |
| Bajo     | Fresnillo        | 03-FRN-115 | FRESNILLO NORTE               | 03-FRN-115-1 | 115             | 13.8            | 20               | 5.09   | 15.35 | 5.24 | 16.56 | 5.10                    | 15.70 | 5.23 | 16.84 |
| Bajo     | Zacatecas        | 03-GPE-110 | GUADALUPE                     | 03-GPE-110-1 | 110             | 13.8            | 20               | 5.12   | 13.42 | 5.26 | 14.97 | 5.13                    | 13.70 | 5.26 | 15.21 |
| Bajo     | Leon             | 03-SFO-110 | SAN FRANCISCO DEL RINCON      | 03-SFO-110-2 | 110             | 13.8            | 20               | 5.13   | 16.88 | 5.24 | 17.61 | 5.13                    | 16.32 | 5.24 | 17.79 |
| Bajo     | Irapuato         | 03-PNV-115 | PUEBLO NUEVO                  | 03-PNV-115-2 | 115             | 13.8            | 20               | 5.13   | 14.01 | 5.30 | 15.45 | 5.14                    | 14.20 | 5.30 | 15.61 |
| Bajo     | Leon             | 03-SRQ-115 | S E SAN ROQUE                 | 03-SRQ-115-1 | 115             | 13.8            | 20               | 5.15   | 17.29 | 5.24 | 18.07 | 5.15                    | 17.54 | 5.24 | 18.26 |
| Bajo     | Celaya           | 03-MAL-115 | SAN MIGUEL ALLENDE            | 03-MAL-115-2 | 115             | 13.8            | 20               | 5.19   | 16.68 | 5.28 | 17.62 | 5.20                    | 16.88 | 5.29 | 17.76 |
| Bajo     | Aguascalientes   | 03-OMG-115 | OMEGA                         | 03-OMG-115-1 | 115             | 13.8            | 20               | 5.19   | 16.24 | 5.33 | 17.26 | 5.20                    | 16.52 | 5.34 | 17.48 |
| Bajo     | Leon             | 03-LNP-110 | LEON PONIENTE                 | 03-LNP-110-1 | 110             | 13.8            | 20               | 5.21   | 16.04 | 5.30 | 17.13 | 5.21                    | 16.32 | 5.31 | 17.34 |
| Bajo     | Leon             | 03-LSA-115 | LOS SAUCES                    | 03-LSA-115-2 | 115             | 13.8            | 20               | 5.22   | 14.91 | 5.33 | 16.23 | 5.22                    | 15.15 | 5.34 | 16.41 |
| Bajo     | San Juan del Rio | 03-TEQ-115 | TEQUISQUIAPAN II              | 03-TEQ-115-1 | 115             | 13.8            | 20               | 5.23   | 15.21 | 5.37 | 16.45 | 5.24                    | 15.47 | 5.38 | 16.66 |
| Bajo     | Queretaro        | 03-ECO-115 | ESTADO                        | 03-ECO-115-1 | 115             | 13.8            | 20               | 5.24   | 18.09 | 5.30 | 18.67 | 5.24                    | 18.29 | 5.30 | 18.81 |
| Bajo     | Zacatecas        | 03-OCL-110 | OJCALIENTE                    | 03-OCL-110-1 | 110             | 13.8            | 20               | 5.23   | 13.17 | 5.38 | 14.75 | 5.24                    | 13.46 | 5.39 | 15.00 |
| Bajo     | Aguascalientes   | 03-MRS-115 | MARGARITAS                    | 03-MRS-115-2 | 115             | 13.8            | 20               | 5.24   | 17.75 | 5.32 | 18.41 | 5.25                    | 18.08 | 5.32 | 18.66 |
| Bajo     | Queretaro        | 03-TJD-115 | TEJEDA                        | 03-TJD-115-1 | 115             | 13.8            | 20               | 5.25   | 17.30 | 5.33 | 18.08 | 5.25                    | 17.44 | 5.33 | 18.19 |
| Bajo     | Leon             | 03-JEM-110 | JESUS DEL MONTE               | 03-JEM-110-1 | 110             | 13.8            | 20               | 5.25   | 16.77 | 5.35 | 17.68 | 5.26                    | 17.03 | 5.36 | 17.88 |
| Bajo     | Celaya           | 03-CYS-115 | CELAYA SUR                    | 03-CYS-115-1 | 115             | 13.8            | 20               | 5.26   | 16.63 | 5.34 | 17.58 | 5.26                    | 16.79 | 5.35 | 17.70 |
| Bajo     | Queretaro        | 03-JUR-110 | JURICA                        | 03-JUR-110-2 | 110             | 13.8            | 20               | 5.26   | 19.04 | 5.35 | 19.82 | 5.26                    | 18.30 | 5.36 | 19.11 |
| Bajo     | Queretaro        | 03-ORN-115 | ORO NORTE                     | 03-ORN-115-2 | 115             | 13.8            | 20               | 5.27   | 16.59 | 5.35 | 17.55 | 5.28                    | 16.76 | 5.35 | 17.68 |
| Bajo     | Irapuato         | 03-IGC-115 | INDUSTRIAL GUANAJUATO CENTRAL | 03-IGC-115-1 | 115             | 13.8            | 20               | 5.28   | 16.81 | 5.37 | 17.72 | 5.29                    | 17.10 | 5.37 | 17.94 |
| Bajo     | Aguascalientes   | 03-PAB-115 | PABELLON                      | 03-PAB-115-2 | 115             | 13.8            | 20               | 5.28   | 15.20 | 5.43 | 16.43 | 5.29                    | 15.54 | 5.44 | 16.71 |
| Bajo     | Fresnillo        | 03-FRN-115 | FRESNILLO NORTE               | 03-FRN-115-3 | 115             | 13.8            | 20               | 5.31   | 15.20 | 5.45 | 16.44 | 5.32                    | 15.56 | 5.46 | 16.73 |
| Bajo     | Aguascalientes   | 03-CLY-110 | CELAYA UNO                    | 03-CLY-110-2 | 110             | 13.8            | 20               | 5.31   | 17.72 | 5.40 | 18.50 | 5.32                    | 17.82 | 5.41 | 18.11 |
| Bajo     | Celaya           | 03-CLY-110 | CELAYA UNO                    | 03-CLY-110-2 | 110             | 13.8            | 20               | 5.31   | 17.59 | 5.40 | 18.30 | 5.34                    | 17.78 | 5.40 | 18.44 |
| Bajo     | Queretaro        | 03-ORE-115 | ORO ORIENTE                   | 03-ORE-115-1 | 115             | 13.8            | 20               | 5.34   | 15.99 | 5.44 | 17.08 | 5.35                    | 16.16 | 5.44 | 17.22 |
| Bajo     | Aguascalientes   | 03-AGO-115 | AGOSTADERITO                  | 03-AGO-115-1 | 115             | 13.8            | 20               | 5.35   | 17.63 | 5.43 | 18.33 | 5.36                    | 17.98 | 5.44 | 18.58 |
| Bajo     | Queretaro        | 03-QRS-115 | QUERETARO SUR                 | 03-QRS-115-1 | 115             | 13.8            | 20               | 5.37   | 17.30 | 5.44 | 18.09 | 5.37                    | 17.43 | 5.45 | 18.18 |
| Bajo     | Aguascalientes   | 03-SJR-110 | SAN JUAN DEL RIO              | 03-SJR-110-1 | 110             | 13.8            | 20               | 5.38   | 18.16 | 5.46 | 19.01 | 5.38                    | 17.51 | 5.46 | 18.61 |
| Bajo     | San Juan del Rio | 03-SJR-110 | SAN JUAN DEL RIO              | 03-SJR-110-2 | 110             | 13.8            | 20               | 5.39   | 18.16 | 5.46 | 19.01 | 5.40                    | 18.35 | 5.46 | 18.85 |
| Bajo     | Celaya           | 03-CHI-115 | CHIPILLO                      | 03-CHI-115-1 | 115             | 13.8            | 20               | 5.37   | 16.81 | 5.52 | 17.69 | 5.40                    | 17.31 | 5.54 | 18.07 |
| Bajo     | Queretaro        | 03-CIM-115 | CIMATARIO                     | 03-CIM-115-1 | 115             | 13.8            | 20               | 5.40   | 16.45 | 5.49 | 17.44 | 5.40                    | 16.63 | 5.50 | 17.57 |
| Bajo     | Queretaro        | 03-ORN-115 | ORO NORTE                     | 03-ORN-115-1 | 115             | 13.8            | 20               | 5.42   | 16.51 | 5.49 | 17.49 | 5.42                    | 16.69 | 5.50 | 17.63 |
| Bajo     | San Juan del Rio | 03-AGN-115 | LA FRAGUA                     | 03-AGN-115-2 | 115             | 13.8            | 20               | 5.42   | 19.04 | 5.49 | 19.82 | 5.42                    | 18.30 | 5.50 | 18.81 |
| Bajo     | Aguascalientes   | 03-AGN-115 | AGUASCALIENTES NORTE          | 03-AGN-115-2 | 115             | 13.8            | 20               | 5.42   | 17.80 | 5.48 | 18.45 | 5.43                    | 18.15 | 5.49 | 18.71 |
| Bajo     | Celaya           | 03-VIG-110 | VILLAGRAN                     | 03-VIG-110-2 | 110             | 13.8            | 20               | 5.44   | 16.62 | 5.53 | 17.57 | 5.45                    | 16.85 | 5.53 | 17.75 |
| Bajo     | San Juan del Rio | 03-MNS-115 | LA MANSION                    | 03-MNS-115-1 | 115             | 13.8            | 20               | 5.45   | 17.75 | 5.54 | 18.41 | 5.45                    | 17.97 | 5.54 | 18.57 |
| Bajo     | Irapuato         | 03-SPD-115 | SALAMANCA PONIENTE            | 03-SPD-115-1 | 115             | 13.8            | 20               | 5.45   | 18.29 | 5.52 | 18.80 | 5.46                    | 18.59 | 5.53 | 19.02 |
| Bajo     | Aguascalientes   | 03-CUR-115 | CURUPA                        | 03-CUR-115-1 | 115             | 13.8            | 20               | 5.46   | 19.04 | 5.55 | 19.82 | 5.46                    | 18.30 | 5.53 | 18.89 |
| Bajo     | Zacatecas        | 03-ZCT-115 | ZACATECAS                     | 03-ZCT-115-2 | 115             | 13.8            | 20               | 5.45   | 13.90 | 5.62 | 15.35 | 5.46                    | 14.24 | 5.64 | 15.65 |
| Bajo     | Irapuato         | 03-GTO-115 | GUANAJUATO                    | 03-GTO-115-2 | 115             | 13.8            | 20               | 5.47   | 15.71 | 5.63 | 16.84 | 5.48                    | 15.99 | 5.63 | 17.06 |
| Bajo     | San Juan del Rio | 03-SJM-110 | SAN JUAN MANIOBRAS            | 03-SJM-110-1 | 110             | 13.8            | 20               | 5.47   | 18.02 | 5.55 | 18.61 | 5.48                    | 18.28 | 5.55 | 18.80 |
| Bajo     | Irapuato         | 03-SSU-110 | SALAMANCA SUR                 | 03-SSU-110-1 | 110             | 13.8            | 20               | 5.48   | 17.97 | 5.54 | 18.58 | 5.49                    | 18.36 | 5.55 | 18.86 |
| Bajo     | Queretaro        | 03-FRA-115 | LA FRAGUA                     | 03-FRA-115-2 | 115             | 13.8            | 20               | 5.48   | 19.04 | 5.55 | 19.82 | 5.48                    | 18.30 | 5.55 | 18.89 |
| Bajo     | Queretaro        | 03-ORE-115 | ORO ORIENTE                   | 03-ORE-115-2 | 115             | 13.8            | 20               | 5.52   | 15.88 | 5.63 | 17.00 | 5.53                    | 16.05 | 5.63 | 17.13 |
| Bajo     | Aguascalientes   | 03-ENC-110 | ENCARNACION DE DIAZ           | 03-ENC-110-1 | 110             | 13.8            | 20               | 5.53   | 12.34 | 5.85 | 13.91 | 5.54                    | 12.51 | 5.86 | 14.06 |
| Bajo     | Irapuato         | 03-TYA-115 | TACUBAYA                      | 03-TYA-115-1 | 115             | 13.8            | 20               | 5.53   | 12.19 | 5.78 | 13.83 | 5.54                    | 12.37 | 5.79 | 13.99 |
| Bajo     | Queretaro        | 03-SJL-115 | SAN JOSE ITURBIDE             | 03-SJL-115-3 | 115             | 13.8            | 12.5             | 5.55   | 16.32 | 5.69 | 17.32 | 5.59                    | 16.92 | 5.72 | 17.78 |
| Bajo     | Celaya           | 03-PAB-115 | PABELLON                      | 03-PAB-115-1 | 115             | 13.8            | 20               | 5.57   | 14.96 | 5.81 | 16.35 | 5.58                    | 15.21 | 5.81 | 16.37 |
| Bajo     | Aguascalientes   | 03-PAB-115 | PABELLON                      | 03-PAB-115-1 | 115             | 13.8            | 20               | 5.63   | 14.96 | 5.80 | 16.24 | 5.64                    | 15.31 | 5.81 | 16.52 |
| Bajo     | Queretaro        | 03-LLM-115 | LA LOMA                       | 03-LLM-115-1 | 115             | 13.8            | 20               | 5.65   | 16.57 | 5.76 | 17.53 | 5.66                    | 16.72 | 5.76 | 17.64 |
| Bajo     | Queretaro        | 03-MRQ-115 | EL MARQUES                    | 03-MRQ-115-1 | 115             | 13.8            | 20               | 5.66   | 16.95 | 5.79 | 17.82 | 5.70                    | 17.14 | 5.79 | 17.96 |
| Bajo     | Irapuato         | 03-PNV-115 | PUEBLO NUEVO                  | 03-PNV-115-1 | 115             | 13.8            | 20               | 5.70   | 13.56 | 5.91 | 15.06 | 5.71                    | 13.76 | 5.91 | 15.23 |
| Bajo     | Aguascalientes   | 03-AGD-115 | AGOSTADERITO                  | 03-AGD-115-2 | 115             | 13.8            | 20               | 5.70   | 15.70 | 5.80 | 16.50 | 5.71                    | 15.06 | 5.80 | 16.30 |
| Bajo     | Zacatecas        | 03-LPL-115 | LAMPOTAL                      | 03-LPL-115-1 | 115             | 13.8            | 20               | 5.70   | 12.93 | 5.95 | 14.49 | 5.72                    | 13.27 | 5.96 | 14.79 |
| Bajo     | Aguascalientes   | 03-CVO-115 | CALVILLO                      | 03-CVO-115-1 | 115             | 13.8            | 20               | 5.76   | 12.80 | 6.09 | 14.31 | 5.76                    | 12.98 | 6.10 | 14.48 |
| Bajo     | Aguascalientes   | 03-AIS-115 | ALFA                          | 03-AIS-115-1 | 115             | 13.8            | 20               | 5.78   | 17.80 | 5.86 | 18.45 | 5.79                    | 18.18 | 5.87 | 18.73 |
| Bajo     | Salvatierra      | 03-SVT-110 | SALVATIERRA                   | 03-SVT-110-1 | 110             | 13.8            | 20               | 5.79   | 13.03 | 6.03 | 14.58 | 5.79                    | 13.08 | 6.03 | 14.62 |
| Bajo     | Queretaro        | 03-AGP-115 | AGS PONIENTE                  | 03-AGP-115-1 | 115             | 13.8            | 20               | 5.82   | 15.87 | 5.82 | 16.52 | 5.82                    | 16.15 | 5.82 | 16.81 |
| Bajo     | Aguascalientes   | 03-PAO-115 | PALO ALTO                     | 03-PAO-115-2 | 115             | 13.8            | 20               | 5.80   | 12.00 | 6.05 | 13.67 | 5.82                    | 12.21 | 6.06 | 13.86 |
| Bajo     | Zacatecas        | 03-LMY-110 | LUIS MOYA                     | 03-LMY-110-1 | 110             | 13.8            | 20               | 5.84   | 10.61 | 6.10 | 12.38 | 5.86                    | 10.88 | 6.11 | 12.63 |
| Bajo     | Aguascalientes   | 03-PEN-115 | PENUELAS                      | 03-PEN-115-1 | 115             | 13.8            | 20               | 5.82   | 9.27  | 6.26 | 10.94 | 5.88                    | 9.71  | 6.31 | 11.38 |
| Bajo     | Queretaro        | 03-SFS-115 | SAN ILDEFONSO                 | 03-SFS-115-2 | 115             | 13.8            | 20               | 5.91   | 15.59 | 6.02 | 16.77 | 5.91                    | 15.79 | 6.03 | 16.93 |
| Bajo     | Celaya           | 03-CZR-115 | COLUMBA                       | 03-CZR-115-1 | 115             | 13.8            | 20               | 5.92   | 15.92 | 6.07 | 17.03 | 5.92                    | 16.07 | 6.07 | 17.09 |
| Bajo     | Aguascalientes   | 03-TCN-115 | EL TECHUAN                    | 03-TCN-115-1 | 115             | 13.8            | 20               | 5.94   | 13.81 | 6.15 | 15.28 | 5.96                    | 14.08 | 6.16 | 15.50 |
| Bajo     | Queretaro        | 03-JUR-110 | JURICA                        | 03-JUR-110-1 | 110             | 13.8            | 20               | 5.97   | 14.89 | 6.09 | 16.21 | 5.98                    | 15.06 | 6.10 | 16.34 |
| Bajo     | Queretaro        | 03-QRS-115 | QUERETARO SUR                 | 03-QRS-115-2 | 115             | 13.8            | 20               | 5.98   | 17.04 | 6.07 | 17.89 | 5.98                    | 17.18 | 6.07 | 17.99 |
| Bajo     | Celaya           | 03-CLY-110 | CELAYA UNO                    | 03-CLY-110-1 | 110             | 13.8            | 20               | 6.03   | 17.32 | 6.11 | 18.10 | 6.03                    | 17.53 | 6.11 | 18.25 |
| Bajo     | Fresnillo        | 03-RAC-115 | RANCHO GRANDE                 | 03-RAC-115-1 | 115             | 13.8            | 20               | 6.02   | 15.82 | 6.12 | 16.62 | 6.03                    | 15.82 | 6.12 | 16.62 |
| Bajo     | Salvatierra      | 03-AOM-110 | ACAMBARO                      | 03-AOM-110-2 | 110             | 13.8            | 20               | 6.09   | 13.07 | 6.35 | 14.61 | 6.09                    | 13.07 | 6.35 | 14.61 |
| Bajo     | Leon             | 03-EQJ-115 | EL GRANUENO                   | 03-EQJ-115-2 | 115             | 13.8            | 20               | 6.09   | 16.18 | 6.20 | 17.24 | 6.10                    | 16.47 | 6.21 | 17.46 |
| Bajo     | Salvatierra      | 03-OJO-110 | OJO SECO                      | 03-OJO-110-1 | 110             | 13.8            | 20               | 6.12   | 15.98 | 6.26 | 17.07 | 6.13                    | 16.12 | 6.27 | 17.17 |
| Bajo     | Leon             | 03-PAP-115 | PARQUE PIEL                   | 03-PAP-115-1 | 115             | 13.8            | 20               | 6.14   | 17.41 | 6.24 | 18.17 | 6.16                    | 18.00 | 6.25 | 18.80 |
| Bajo     | Aguascalientes   | 03-AGP-115 |                               |              |                 |                 |                  |  |       |      |       |                         |       |      |       |

Niveles de corto circuito de media tensión en las RGD,  
correspondientes al año 2020



NOTA: Con base a niveles de corto circuito de la Red Nacional de Transmisión 2020, publicado por el CENACE en Diciembre 2017

| División         | Zona             | Acronimo   | Subestación              | Banco        | Tensión AT (kV) | Tensión MT (kV) | Capacidad en MVA | Corriente de corto circuito (kA), y relación X/R |       |       |       |                         |       |       |       |
|------------------|------------------|------------|--------------------------|--------------|-----------------|-----------------|------------------|--|-------|-------|-------|-------------------------|-------|-------|-------|
|                  |                  |            |                          |              |                 |                 |                  | Nivel de CC mínimo 2020                          |       |       |       | Nivel de CC máximo 2020 |       |       |       |
|                  |                  |            |                          |              |                 |                 |                  | 3F   | X/R   | 1F    | X/R   | 3F                      | X/R   | 1F    | X/R   |
| Bajo             | Queretaro        | 03-SAP-110 | SAN LUIS DE LA PAZ       | 03-SAP-110-1 | 110             | 13.8            | 30               | 7.90   | 17.65 | 8.05  | 18.33 | 7.92                    | 18.00 | 8.06  | 18.59 |
| Bajo             | Celaya           | 03-CAE-110 | GELAYA AEROPUERTO        | 03-CAE-110-1 | 110             | 13.8            | 30               | 7.92   | 16.19 | 8.08  | 17.24 | 7.93                    | 16.45 | 8.09  | 17.43 |
| Bajo             | Apaxtzingan      | 03-SSU-115 | GUANAJUATO SUR           | 03-SSU-115-1 | 115             | 13.8            | 30               | 7.93   | 14.91 | 8.28  | 16.16 | 8.01                    | 16.39 | 8.11  | 17.84 |
| Bajo             | Irapuato         | 03-ABS-115 | ABASOLO                  | 03-ABS-115-1 | 115             | 13.8            | 30               | 7.93   | 14.98 | 8.18  | 16.25 | 7.94                    | 15.31 | 8.18  | 16.52 |
| Bajo             | Irapuato         | 03-IRA-115 | IRAPUATO II (ATTOCC)     | 03-IRA-115-1 | 115             | 13.8            | 30               | 7.94   | 17.98 | 8.04  | 18.58 | 7.97                    | 18.50 | 8.05  | 18.96 |
| Bajo             | Irapuato         | 03-IRP-110 | IRAPUATO I               | 03-IRP-110-1 | 110             | 13.8            | 30               | 7.96   | 17.37 | 8.08  | 18.14 | 7.98                    | 17.86 | 8.09  | 18.50 |
| Bajo             | Salvatierra      | 03-MLO-110 | MOROLEON                 | 03-MLO-110-1 | 110             | 13.8            | 30               | 7.98   | 10.56 | 8.51  | 12.24 | 8.00                    | 10.68 | 8.51  | 12.35 |
| Bajo             | Queretaro        | 03-NTA-115 | ANTEA                    | 03-NTA-115-1 | 115             | 13.8            | 30               | 8.28   | 17.85 | 8.40  | 18.49 | 8.29                    | 18.13 | 8.41  | 18.69 |
| Bajo             | Zacatecas        | 03-ZCS-115 | ZACATECAS SUR            | 03-ZCS-115-1 | 115             | 13.8            | 30               | 8.04   | 12.12 | 8.43  | 13.76 | 8.07                    | 12.50 | 8.45  | 14.10 |
| Bajo             | Leon             | 03-LNA-115 | LEON ALFARO              | 03-LNA-115-1 | 115             | 13.8            | 30               | 8.06   | 15.96 | 8.26  | 17.05 | 8.07                    | 16.34 | 8.26  | 17.34 |
| Bajo             | San Juan del Rio | 03-SJO-115 | SAN JUAN DEL RIO ORIENTE | 03-SJO-115-1 | 115             | 13.8            | 30               | 8.10   | 16.05 | 8.30  | 17.11 | 8.10                    | 16.26 | 8.31  | 17.28 |
| Bajo             | Irapuato         | 03-CYA-115 | CELAYA DOS (ATTOCC)      | 03-CYA-115-1 | 115             | 13.8            | 30               | 8.10   | 15.94 | 8.32  | 17.03 | 8.13                    | 16.32 | 8.33  | 17.32 |
| Bajo             | Queretaro        | 03-SLN-115 | SALAMANCA NORTE          | 03-SLN-115-1 | 115             | 13.8            | 30               | 8.10   | 16.30 | 8.26  | 17.32 | 8.14                    | 16.79 | 8.29  | 17.69 |
| Bajo             | Celaya           | 03-CYI-110 | CELAYA INDUSTRIAL        | 03-CYI-110-1 | 110             | 13.8            | 30               | 8.13   | 16.35 | 8.29  | 17.36 | 8.14                    | 16.59 | 8.30  | 17.54 |
| Bajo             | Leon             | 03-LJY-115 | LA JOYA                  | 03-LJY-115-1 | 115             | 13.8            | 30               | 8.24   | 16.58 | 8.40  | 17.53 | 8.25                    | 16.99 | 8.41  | 17.85 |
| Bajo             | Leon             | 03-LNN-115 | LEON NORTE               | 03-LNN-115-2 | 115             | 13.8            | 30               | 8.26   | 15.98 | 8.45  | 17.06 | 8.27                    | 16.47 | 8.46  | 17.36 |
| Bajo             | Celaya           | 03-ASS-115 | AGS SUR                  | 03-ASS-115-1 | 115             | 13.8            | 30               | 8.28   | 15.80 | 8.40  | 16.49 | 8.29                    | 16.83 | 8.41  | 17.69 |
| Bajo             | Leon             | 03-LNN-115 | LEON NORTE               | 03-LNN-115-1 | 115             | 13.8            | 30               | 8.27   | 15.80 | 8.95  | 16.92 | 8.74                    | 16.20 | 8.95  | 17.23 |
| Bajo             | Irapuato         | 03-RTA-115 | ROMITA                   | 03-RTA-115-1 | 115             | 13.8            | 30               | 8.82   | 13.75 | 9.17  | 15.20 | 8.83                    | 14.07 | 9.18  | 15.47 |
| Bajo             | Aguascalientes   | 03-AGS-115 | AGS ORIENTE (ATTOCC)     | 03-AGS-115-3 | 115             | 13.8            | 30               | 9.01   | 17.59 | 9.15  | 18.29 | 9.03                    | 18.15 | 9.16  | 18.71 |
| Bajo             | Leon             | 03-LNU-115 | LEON UNO (ATTOCC)        | 03-LNU-115-1 | 115             | 13.8            | 30               | 9.26   | 17.12 | 9.43  | 17.94 | 9.27                    | 17.61 | 9.43  | 18.31 |
| Bajo             | Aguascalientes   | 03-AGS-115 | AGS SUR                  | 03-AGS-115-1 | 115             | 13.8            | 40               | 10.20  | 15.82 | 10.51 | 16.92 | 10.23                   | 16.29 | 10.54 | 17.29 |
| Bajo             | Queretaro        | 03-SDD-115 | LA SOLEDAD               | 03-SDD-115-1 | 115             | 13.8            | 12.5             | 10.31  | 17.21 | 10.80 | 17.96 | 10.37                   | 17.83 | 10.84 | 18.43 |
| Bajo             | Irapuato         | 03-IRI-115 | IRAPUATO INDUSTRIAL      | 03-IRI-115-1 | 115             | 13.8            | 40               | 10.39  | 14.49 | 10.74 | 15.84 | 10.42                   | 14.91 | 10.76 | 16.19 |
| Bajo             | Leon             | 03-LNP-110 | LEON PONIENTE            | 03-LNP-110-1 | 110             | 13.8            | 40               | 10.42  | 15.27 | 10.73 | 16.48 | 10.43                   | 15.71 | 10.74 | 16.83 |
| Bajo             | Queretaro        | 03-AMB-115 | CIUDAD BAJIO             | 03-AMB-115-1 | 115             | 13.8            | 40               | 10.42  | 15.18 | 10.74 | 16.47 | 10.43                   | 15.71 | 10.74 | 16.83 |
| Bajo             | Irapuato         | 03-SIL-115 | SILAO                    | 03-SIL-115-1 | 115             | 13.8            | 40               | 10.44  | 14.83 | 10.75 | 16.13 | 10.46                   | 15.28 | 10.76 | 16.50 |
| Bajo             | Queretaro        | 03-OPE-115 | ORO, PONIENTE            | 03-OPE-115-1 | 115             | 13.8            | 40               | 10.53  | 13.66 | 10.92 | 15.13 | 10.54                   | 13.82 | 10.93 | 15.27 |
| Bajo             | Leon             | 03-LNO-110 | LEON ORIENTE             | 03-LNO-110-1 | 110             | 13.8            | 40               | 10.64  | 14.40 | 11.01 | 15.77 | 10.66                   | 14.82 | 11.02 | 16.11 |
| Bajo             | Queretaro        | 03-GRD-115 | GUERETARO (ATTOCC)       | 03-GRD-115-3 | 115             | 13.8            | 40               | 11.91  | 17.27 | 12.11 | 18.06 | 11.93                   | 17.65 | 12.13 | 18.34 |
| Centro Occidente | Apaxtzingan      | 03-TXR-115 | TUXTLA                   | 03-TXR-115-2 | 115             | 23              | 9.375            | 1.96   | 15.44 | 1.96  | 17.93 | 1.95                    | 15.47 | 1.96  | 17.92 |
| Centro Occidente | Manzanillo       | 03-CML-115 | CHAMELA                  | 03-CML-115-1 | 115             | 23              | 9.375            | 1.67   | 9.90  | 1.61  | 11.53 | 1.68                    | 10.07 | 1.62  | 11.65 |
| Centro Occidente | Zitacuaro        | 03-SJZ-115 | SAN JUAN ZITACUARO       | 03-SJZ-115-1 | 115             | 23              | 7.5              | 1.70   | 15.61 | 1.73  | 16.79 | 1.70                    | 15.66 | 1.73  | 16.83 |
| Centro Occidente | Colima           | 03-CHY-115 | COAHUAYANA               | 03-CHY-115-2 | 115             | 34.5            | 20               | 1.72   | 8.63  | 1.88  | 10.21 | 1.73                    | 8.78  | 1.89  | 10.36 |
| Centro Occidente | Lazaro Cardenas  | 01-IFR-69  | INFERNILLO               | 01-IFR-69-1  | 69              | 13.8            | 6.25             | 1.96   | 4.37  | 2.14  | 5.38  | 1.86                    | 4.40  | 2.14  | 5.41  |
| Centro Occidente | Zitacuaro        | 03-ANN-115 | ANTUNILLO                | 03-ANN-115-1 | 115             | 23              | 9.375            | 1.96   | 15.44 | 1.96  | 17.93 | 1.95                    | 15.47 | 1.96  | 17.92 |
| Centro Occidente | Zitacuaro        | 03-VNC-115 | VENUSTIANO CARRANZA      | 03-VNC-115-1 | 115             | 23              | 9.375            | 1.96   | 15.44 | 1.96  | 17.93 | 1.95                    | 15.47 | 1.96  | 17.92 |
| Centro Occidente | Zitacuaro        | 03-CDH-115 | CIUDAD HIDALGO           | 03-CDH-115-1 | 115             | 23              | 9.375            | 1.97   | 15.57 | 2.02  | 16.77 | 1.97                    | 15.57 | 2.01  | 16.74 |
| Centro Occidente | Zitacuaro        | 03-ZIT-115 | ZITACUARO UNO            | 03-ZIT-115-1 | 115             | 23              | 9.375            | 1.97   | 15.57 | 2.04  | 16.90 | 2.00                    | 15.81 | 2.04  | 16.94 |
| Centro Occidente | Morelia          | 03-AZS-115 | AZUFRES                  | 03-AZS-115-2 | 115             | 13.8            | 6.25             | 2.35   | 19.10 | 2.37  | 19.38 | 2.35                    | 19.04 | 2.37  | 19.34 |
| Centro Occidente | Colima           | 03-AZA-115 | AZAPAZA                  | 03-AZA-115-1 | 115             | 13.8            | 6.25             | 2.91   | 19.99 | 2.97  | 19.99 | 2.97                    | 19.99 | 2.97  | 19.99 |
| Centro Occidente | Apaxtzingan      | 03-ING-69  | INGUANAN                 | 03-ING-69-1  | 69              | 13.8            | 6.25             | 2.68   | 12.61 | 2.78  | 14.22 | 2.77                    | 15.86 | 2.86  | 16.96 |
| Centro Occidente | Manzanillo       | 03-TCS-115 | TECOMATES                | 03-TCS-115-1 | 115             | 13.8            | 9.375            | 2.78   | 10.04 | 2.97  | 11.73 | 2.79                    | 10.18 | 2.98  | 11.87 |
| Centro Occidente | Apaxtzingan      | 03-HUC-69  | HUACANA                  | 03-HUC-69-1  | 69              | 13.8            | 9.375            | 2.79   | 4.97  | 3.14  | 6.13  | 2.84                    | 5.17  | 3.19  | 6.39  |
| Centro Occidente | Jiquilpan        | 03-SHY-115 | SAHUAYO                  | 03-SHY-115-1 | 115             | 23              | 20               | 2.97   | 15.82 | 2.95  | 16.93 | 2.88                    | 16.10 | 2.95  | 17.16 |
| Centro Occidente | Apaxtzingan      | 03-CAT-115 | CATEPEC DOS              | 03-CAT-115-1 | 115             | 13.8            | 9.375            | 2.82   | 14.96 | 3.02  | 16.29 | 2.82                    | 14.96 | 3.02  | 16.29 |
| Centro Occidente | Manzanillo       | 03-LHT-115 | LA HUERTA                | 03-LHT-115-1 | 115             | 13.8            | 9.375            | 2.88   | 11.26 | 3.04  | 12.94 | 2.89                    | 11.44 | 3.05  | 13.11 |
| Centro Occidente | Zitacuaro        | 03-CDH-115 | CIUDAD HIDALGO           | 03-CDH-115-2 | 115             | 23              | 20               | 2.96   | 14.01 | 3.07  | 15.45 | 2.96                    | 14.01 | 3.06  | 15.44 |
| Centro Occidente | Lazaro Cardenas  | 01-ATG-69  | ARTEAGA                  | 01-ATG-69-2  | 69              | 13.8            | 9.375            | 3.00   | 11.03 | 3.30  | 12.54 | 2.97                    | 10.82 | 3.28  | 12.32 |
| Centro Occidente | Zamora           | 03-TIL-115 | TIXTLAN                  | 03-TIL-115-1 | 115             | 13.8            | 9.375            | 3.03   | 15.84 | 3.08  | 17.04 | 3.03                    | 16.12 | 3.09  | 17.18 |
| Centro Occidente | Jiquilpan        | 03-SHT-115 | SAHUAYO                  | 03-SHT-115-2 | 115             | 13.8            | 9.375            | 3.03   | 15.44 | 3.30  | 16.93 | 3.04                    | 16.12 | 3.14  | 17.01 |
| Centro Occidente | Zamora           | 03-ZMA-110 | ZAMORA                   | 03-ZMA-110-3 | 110             | 13.8            | 6.25             | 3.08   | 16.69 | 3.13  | 17.62 | 3.09                    | 16.88 | 3.13  | 17.77 |
| Centro Occidente | La Piedad        | 03-JMA-115 | JESUS MARIA              | 03-JMA-115-1 | 115             | 13.8            | 9.375            | 3.12   | 12.52 | 3.25  | 14.14 | 3.13                    | 12.66 | 3.25  | 14.27 |
| Centro Occidente | Patzcuaro        | 03-LAG-115 | LAGUNILLAS               | 03-LAG-115-1 | 115             | 13.8            | 9.375            | 3.14   | 13.61 | 3.25  | 15.11 | 3.15                    | 13.83 | 3.25  | 15.30 |
| Centro Occidente | Morelia          | 03-TGS-115 | TRIGUILLLOS              | 03-TGS-115-1 | 115             | 13.8            | 9.375            | 3.16   | 10.99 | 3.30  | 12.73 | 3.16                    | 11.01 | 3.30  | 12.75 |
| Centro Occidente | Colima           | 03-ELA-115 | EL ALBAZOR               | 03-ELA-115-1 | 115             | 13.8            | 9.375            | 3.17   | 13.81 | 3.26  | 15.11 | 3.17                    | 13.81 | 3.26  | 15.11 |
| Centro Occidente | Jiquilpan        | 03-JOG-115 | SAN JOS DE GRACIA        | 03-JOG-115-1 | 115             | 23              | 20               | 3.17   | 8.77  | 3.39  | 10.46 | 3.17                    | 8.86  | 3.39  | 10.55 |
| Centro Occidente | Zamora           | 03-PBN-115 | PERIBAN                  | 03-PBN-115-1 | 115             | 13.8            | 9.375            | 3.17   | 13.25 | 3.27  | 14.81 | 3.18                    | 13.45 | 3.28  | 14.97 |
| Centro Occidente | Colima           | 03-ASM-115 | ASMOLES                  | 03-ASM-115-1 | 115             | 13.8            | 9.375            | 3.17   | 15.15 | 3.24  | 16.41 | 3.18                    | 15.49 | 3.25  | 16.68 |
| Centro Occidente | La Piedad        | 03-YEA-115 | YERBABUENA               | 03-YEA-115-1 | 115             | 13.8            | 6.25             | 3.20   | 15.02 | 3.29  | 16.29 | 3.20                    | 15.27 | 3.29  | 16.50 |
| Centro Occidente | Colima           | 03-ANL-115 | ANILIZ                   | 03-ANL-115-1 | 115             | 13.8            | 9.375            | 3.21   | 12.84 | 3.29  | 14.61 | 3.21                    | 12.84 | 3.29  | 14.61 |
| Centro Occidente | Zacapu           | 03-VJL-115 | VILLA JIMENEZ            | 03-VJL-115-1 | 115             | 13.8            | 9.375            | 3.21   | 15.09 | 3.28  | 16.36 | 3.22                    | 15.50 | 3.29  | 16.69 |
| Centro Occidente | La Piedad        | 03-ARS-115 | ARANDAS                  | 03-ARS-115-1 | 115             | 13.8            | 9.375            | 3.22   | 12.30 | 3.35  | 13.95 | 3.23                    | 12.45 | 3.35  | 14.08 |
| Centro Occidente | Morelia          | 03-AER-115 | AEROPUERTO               | 03-AER-115-3 | 115             | 13.8            | 9.375            | 3.23   | 15.48 | 3.31  | 16.67 | 3.23                    | 15.50 | 3.31  | 16.69 |
| Centro Occidente | Patzcuaro        | 03-CHC-69  | CERRO HUECO              | 03-CHC-69-1  | 69              | 13.8            | 20               | 3.17   | 3.38  | 3.92  | 3.99  | 3.24                    | 3.48  | 3.99  | 4.12  |
| Centro Occidente | Colima           | 03-TEC-115 | TECOMAN                  | 03-TEC-115-1 | 115             | 13.8            | 9.375            | 3.24   | 14.65 | 3.32  | 16.06 | 3.24                    | 14.65 | 3.32  | 16.06 |
| Centro Occidente | Zitacuaro        | 03-GSO-115 | GUASCUARO                | 03-GSO-115-1 | 115             | 13.8            | 9.375            | 3.27   | 15.21 | 3.34  | 16.46 | 3.27                    | 15.41 | 3.34  | 16.62 |
| Centro Occidente | Zacapu           | 03-ZCP-110 | ZACAPU                   | 03-ZCP-110-  |                 |                 |                  |  |       |       |       |                         |       |       |       |

Niveles de corto circuito de media tensión en las RGD,  
correspondientes al año 2020



NOTA: Con base a niveles de corto circuito de la Red Nacional de Transmisión 2020, publicado por el CENACE en Diciembre 2017

| División         | Zona            | Acronimo   | Subestación                      | Banco        | Tensión AT (KV) | Tensión MT (KV) | Capacidad en MVA | Corriente de corto circuito (kA), y relación X/R |       |      |                         |      |       |      |       |  |
|------------------|-----------------|------------|----------------------------------|--------------|-----------------|-----------------|------------------|--|-------|------|-------------------------|------|-------|------|-------|--|
|                  |                 |            |                                  |              |                 |                 |                  | Nivel de CC mínimo 2020                          |       |      | Nivel de CC máximo 2020 |      |       |      |       |  |
|                  |                 |            |                                  |              |                 |                 |                  | 3F   | X/R   | 1F   | 3F                      | X/R  | 1F    | X/R  |       |  |
| Centro Occidente | Zamora          | 03-TGR-115 | TANGANCICUARO                    | 03-TGR-115-1 | 115             | 13.8            | 20               | 5.26   | 15.04 | 5.38 | 16.32                   | 5.26 | 15.31 | 5.39 | 16.53 |  |
| Centro Occidente | Morelia         | 03-SNM-115 | SANTA MARIA                      | 03-SNM-115-1 | 115             | 13.8            | 20               | 5.27   | 15.21 | 5.40 | 16.45                   | 5.27 | 15.36 | 5.40 | 16.57 |  |
| Centro Occidente | Morelia         | 03-CPE-115 | CAMPUCERA                        | 03-CPE-115-2 | 115             | 13.8            | 20               | 5.28   | 15.37 | 5.41 | 16.50                   | 5.28 | 15.41 | 5.40 | 16.69 |  |
| Centro Occidente | Morelia         | 03-STG-115 | SANTIAGUITO                      | 03-STG-115-2 | 115             | 13.8            | 20               | 5.28   | 15.74 | 5.39 | 16.88                   | 5.28 | 15.85 | 5.39 | 16.97 |  |
| Centro Occidente | Zamora          | 03-ZMA-110 | ZAMORA                           | 03-ZMA-110-2 | 110             | 13.8            | 20               | 5.28   | 14.94 | 5.41 | 16.23                   | 5.28 | 15.20 | 5.42 | 16.44 |  |
| Centro Occidente | La Piedad       | 03-ZID-115 | ZINAPARO                         | 03-ZID-115-1 | 115             | 13.8            | 20               | 5.28   | 15.09 | 5.41 | 16.36                   | 5.28 | 15.37 | 5.41 | 16.59 |  |
| Centro Occidente | Zacapu          | 03-HNM-115 | SUBESTACION HUANIMARO ( DIVISION | 03-HNM-115-1 | 115             | 13.8            | 20               | 5.29   | 11.78 | 5.58 | 13.42                   | 5.30 | 11.92 | 5.59 | 13.54 |  |
| Centro Occidente | Manzanillo      | 03-TAP-115 | TAPEXITLES                       | 03-TAP-115-2 | 115             | 13.8            | 20               | 5.30   | 17.70 | 5.39 | 18.38                   | 5.34 | 17.92 | 5.41 | 18.87 |  |
| Centro Occidente | Colima          | 03-BCT-115 | BICENTENARIO                     | 03-BCT-115-1 | 115             | 13.8            | 20               | 5.31   | 15.50 | 5.45 | 16.68                   | 5.34 | 16.08 | 5.47 | 17.13 |  |
| Centro Occidente | Zamora          | 03-ABL-115 | ARBOLEDAS                        | 03-ABL-115-1 | 115             | 13.8            | 20               | 5.33   | 15.62 | 5.46 | 16.78                   | 5.34 | 15.88 | 5.47 | 16.99 |  |
| Centro Occidente | Manzanillo      | 03-FDP-115 | FONDEPORT                        | 03-FDP-115-2 | 115             | 13.8            | 20               | 5.32   | 15.94 | 5.45 | 17.03                   | 5.36 | 16.49 | 5.48 | 17.46 |  |
| Centro Occidente | Lazaro Cardenas | 01-LCD-115 | LAZARO CARDENAS DISTRIBUCION     | 01-LCD-115-1 | 115             | 13.8            | 20               | 5.35   | 17.47 | 5.45 | 18.20                   | 5.36 | 17.63 | 5.46 | 18.32 |  |
| Centro Occidente | Morelia         | 03-PDG-115 | PEDREGAL                         | 03-PDG-115-1 | 115             | 13.8            | 20               | 5.35   | 14.44 | 5.61 | 15.81                   | 5.44 | 14.65 | 5.61 | 15.98 |  |
| Centro Occidente | Morelia         | 03-STG-115 | SANTIAGUITO                      | 03-STG-115-1 | 115             | 13.8            | 20               | 5.46   | 15.62 | 5.58 | 16.79                   | 5.46 | 15.74 | 5.58 | 16.88 |  |
| Centro Occidente | Lazaro Cardenas | 01-LCD-115 | LAZARO CARDENAS DISTRIBUCION     | 01-LCD-115-2 | 115             | 13.8            | 20               | 5.54   | 17.39 | 5.65 | 18.14                   | 5.56 | 17.55 | 5.67 | 18.26 |  |
| Centro Occidente | Zamora          | 03-JCN-115 | JACONA                           | 03-JCN-115-1 | 115             | 13.8            | 20               | 5.56   | 15.92 | 5.68 | 17.02                   | 5.56 | 16.23 | 5.69 | 17.26 |  |
| Centro Occidente | Urupuan         | 03-MRR-115 | MIRADOR                          | 03-MRR-115-1 | 115             | 13.8            | 20               | 5.59   | 12.74 | 5.85 | 14.33                   | 5.59 | 13.93 | 5.89 | 15.36 |  |
| Centro Occidente | La Piedad       | 03-LPI-115 | LA PIEDAD                        | 03-LPI-115-1 | 115             | 13.8            | 20               | 5.68   | 13.03 | 5.89 | 14.60                   | 5.68 | 13.26 | 5.90 | 14.80 |  |
| Centro Occidente | Manzanillo      | 03-CDI-115 | COLOMOS DISTRIBUCION             | 03-CDI-115-1 | 115             | 13.8            | 20               | 5.66   | 18.24 | 5.74 | 18.77                   | 5.70 | 19.00 | 5.77 | 19.31 |  |
| Centro Occidente | La Piedad       | 03-LPP-115 | LA PIEDAD PONIENTE               | 03-LPP-115-1 | 115             | 13.8            | 20               | 5.77   | 12.32 | 6.02 | 13.95                   | 5.78 | 12.53 | 6.03 | 14.14 |  |
| Centro Occidente | Morelia         | 03-MEL-115 | MORELOS                          | 03-MEL-115-1 | 115             | 13.8            | 20               | 5.86   | 15.47 | 6.00 | 16.67                   | 5.86 | 15.86 | 6.00 | 16.81 |  |
| Centro Occidente | Zamora          | 03-ZMA-110 | ZAMORA                           | 03-ZMA-110-1 | 110             | 13.8            | 20               | 5.86   | 14.56 | 6.03 | 15.89                   | 5.87 | 14.86 | 6.04 | 16.12 |  |
| Centro Occidente | Morelia         | 03-MOI-115 | MORELIA INDUSTRIAL               | 03-MOI-115-1 | 115             | 13.8            | 20               | 5.90   | 15.31 | 6.05 | 16.53                   | 5.90 | 15.41 | 6.05 | 16.62 |  |
| Centro Occidente | Morelia         | 03-MRD-115 | MORELIA DOS                      | 03-MRD-115-1 | 115             | 13.8            | 20               | 5.92   | 15.00 | 6.09 | 16.28                   | 5.93 | 15.17 | 6.09 | 16.42 |  |
| Centro Occidente | Morelia         | 03-MOR-115 | MORELIA NORTE                    | 03-MOR-115-1 | 115             | 13.8            | 20               | 5.96   | 15.14 | 6.11 | 16.40                   | 5.96 | 15.28 | 6.11 | 16.51 |  |
| Centro Occidente | Morelia         | 03-ZIN-115 | ZINAPARU                         | 03-ZIN-115-1 | 115             | 13.8            | 12.5             | 6.03   | 16.47 | 6.19 | 17.44                   | 6.02 | 16.44 | 6.19 | 17.41 |  |
| Centro Occidente | Colima          | 03-JVA-115 | JUAN VALDE PAREZ                 | 03-JVA-115-2 | 115             | 13.8            | 20               | 6.03   | 14.26 | 6.18 | 15.67                   | 6.02 | 14.81 | 6.18 | 16.03 |  |
| Centro Occidente | Morelia         | 03-CPE-115 | CAMPUESTRE                       | 03-CPE-115-1 | 115             | 13.8            | 20               | 6.10   | 14.83 | 6.28 | 16.14                   | 6.10 | 14.98 | 6.28 | 16.26 |  |
| Centro Occidente | Lazaro Cardenas | 01-CAY-115 | CAYACAL                          | 01-CAY-115-1 | 115             | 13.8            | 20               | 6.10   | 16.04 | 6.27 | 17.10                   | 6.12 | 16.18 | 6.29 | 17.21 |  |
| Centro Occidente | Colima          | 03-VAT-115 | VALLE DE TECOMAN                 | 03-VAT-115-1 | 115             | 13.8            | 20               | 6.27   | 17.20 | 6.38 | 18.00                   | 6.30 | 17.79 | 6.40 | 18.44 |  |
| Centro Occidente | Morelia         | 03-MOR-115 | MORELIA NORTE                    | 03-MOR-115-2 | 115             | 13.8            | 20               | 6.37   | 14.78 | 6.75 | 16.09                   | 6.57 | 14.92 | 6.75 | 16.21 |  |
| Centro Occidente | Colima          | 03-CAJ-115 | CALAMUCHI                        | 03-CAJ-115-1 | 115             | 13.8            | 20               | 6.38   | 12.46 | 7.21 | 15.97                   | 6.26 | 14.22 | 7.21 | 15.66 |  |
| Centro Occidente | Urupuan         | 03-UPT-115 | URUPUAN 3                        | 03-UPT-115-1 | 115             | 13.8            | 30               | 7.56   | 12.78 | 7.64 | 14.37                   | 7.46 | 14.27 | 7.71 | 15.66 |  |
| Centro Occidente | Manzanillo      | 03-SLH-115 | SALAHUA                          | 03-SLH-115-1 | 115             | 13.8            | 40               | 8.59   | 14.12 | 8.93 | 15.52                   | 8.68 | 14.82 | 8.99 | 16.11 |  |
| Centro Oriente   | Matamoros       | 02-AEN-115 | ATELINGO II                      | 02-AEN-115-2 | 115             | 34.5            | 12.5             | 1.67   | 8.06  | 1.84 | 9.60                    | 1.67 | 8.11  | 1.84 | 9.64  |  |
| Centro Oriente   | Tehuacan        | 02-THN-115 | TEHUACAN                         | 02-THN-115-3 | 115             | 34.5            | 20               | 1.92   | 13.04 | 1.99 | 14.61                   | 1.92 | 13.21 | 2.00 | 14.76 |  |
| Centro Oriente   | Tehuacan        | 02-CPA-115 | CAPULALPAN II                    | 02-CPA-115-1 | 115             | 34.5            | 20               | 2.02   | 11.60 | 2.03 | 13.20                   | 2.02 | 11.81 | 2.02 | 13.21 |  |
| Centro Oriente   | Tehuacan        | 02-CPA-115 | COAPAN                           | 02-CPA-115-2 | 115             | 34.5            | 12.5             | 2.02   | 12.35 | 2.11 | 13.97                   | 2.02 | 12.53 | 2.11 | 14.13 |  |
| Centro Oriente   | San Martin      | 02-MOA-115 | EL MORAL                         | 02-MOA-115-2 | 115             | 34.5            | 20               | 2.11   | 17.38 | 2.15 | 18.13                   | 2.11 | 17.51 | 2.16 | 18.23 |  |
| Centro Oriente   | Matamoros       | 02-MEC-115 | METEPEC                          | 02-MEC-115-1 | 115             | 34.5            | 12.5             | 2.12   | 14.72 | 2.18 | 16.04                   | 2.12 | 14.88 | 2.19 | 16.17 |  |
| Centro Oriente   | Pachuca         | 01-PAC-85  | PACHUCA                          | 01-PAC-85-2  | 85              | 23              | 10               | 2.14   | 16.29 | 2.19 | 17.52                   | 2.14 | 16.35 | 2.19 | 17.56 |  |
| Centro Oriente   | Pachuca         | 01-PAC-85  | PACHUCA                          | 01-PAC-85-2  | 85              | 23              | 10               | 2.18   | 16.23 | 2.20 | 17.48                   | 2.18 | 16.29 | 2.20 | 17.52 |  |
| Centro Oriente   | Pachuca         | 01-PAC-85  | PACHUCA                          | 01-PAC-85-3  | 85              | 23              | 10               | 2.24   | 16.16 | 2.27 | 17.63                   | 2.23 | 16.22 | 2.27 | 17.67 |  |
| Centro Oriente   | Pachuca         | 01-PAC-85  | PACHUCA                          | 01-PAC-85-3  | 85              | 23              | 10               | 2.27   | 16.10 | 2.28 | 17.60                   | 2.27 | 16.17 | 2.28 | 17.64 |  |
| Centro Oriente   | Pachuca         | 01-PAC-85  | PACHUCA                          | 01-PAC-85-3  | 85              | 23              | 10               | 2.29   | 16.09 | 2.31 | 17.59                   | 2.29 | 16.15 | 2.31 | 17.63 |  |
| Centro Oriente   | Tula            | 01-JAS-85  | S.E. JASSO                       | 01-JAS-85-0  | 85              | 23              | 10               | 2.29   | 16.09 | 2.31 | 17.59                   | 2.29 | 16.15 | 2.31 | 17.63 |  |
| Centro Oriente   | Matamoros       | 02-IZM-115 | IZUCAR DE MATAMOROS              | 02-IZM-115-1 | 115             | 34.5            | 12.5             | 2.27   | 8.16  | 2.37 | 9.75                    | 2.27 | 8.22  | 2.37 | 9.81  |  |
| Centro Oriente   | Tula            | 01-JAS-230 | S.E. JASSO                       | 01-JAS-230-2 | 230             | 23              | 10               | 2.37   | 19.60 | 2.38 | 19.72                   | 2.37 | 19.78 | 2.38 | 19.85 |  |
| Centro Oriente   | Tula            | 01-JAS-85  | S.E. JASSO                       | 01-JAS-85-3  | 85              | 23              | 10               | 2.41   | 18.99 | 2.44 | 19.30                   | 2.41 | 19.10 | 2.44 | 19.38 |  |
| Centro Oriente   | Tula            | 01-JAS-230 | S.E. JASSO                       | 01-JAS-230-1 | 230             | 23              | 10               | 2.41   | 18.99 | 2.44 | 19.30                   | 2.41 | 19.10 | 2.44 | 19.38 |  |
| Centro Oriente   | Tula            | 01-JAS-230 | S.E. JASSO                       | 01-JAS-230-2 | 230             | 23              | 10               | 2.49   | 19.58 | 2.48 | 19.71                   | 2.49 | 19.77 | 2.50 | 19.84 |  |
| Centro Oriente   | Puebla Oriente  | 02-AMZ-115 | AMOZOC II                        | 02-AMZ-115-2 | 115             | 34.5            | 30               | 2.63   | 12.00 | 2.73 | 13.69                   | 2.64 | 12.12 | 2.73 | 13.80 |  |
| Centro Oriente   | Pachuca         | 01-DCA-85  | DOS CARLOS                       | 01-DCA-85-1  | 85              | 23              | 30               | 2.79   | 13.92 | 2.92 | 15.33                   | 2.79 | 13.98 | 2.92 | 15.38 |  |
| Centro Oriente   | Tecamachalco    | 02-TML-115 | TECAMACHALCO                     | 02-TML-115-2 | 115             | 34.5            | 20               | 2.80   | 13.83 | 2.91 | 15.27                   | 2.80 | 14.01 | 2.91 | 15.43 |  |
| Centro Oriente   | Tecamachalco    | 02-LIB-115 | LIBRES                           | 02-LIB-115-1 | 115             | 34.5            | 20               | 2.92   | 11.82 | 3.03 | 13.26                   | 2.92 | 11.81 | 3.03 | 13.26 |  |
| Centro Oriente   | Tula            | 01-STU-115 | S.E. SANTIAGO TLAUTLA            | 01-STU-115-1 | 115             | 23              | 30               | 3.00   | 13.46 | 3.13 | 14.95                   | 3.00 | 13.56 | 3.13 | 15.04 |  |
| Centro Oriente   | Puebla Poniente | 02-ECN-115 | EL CONDE                         | 02-ECN-115-2 | 115             | 34.5            | 30               | 3.02   | 17.22 | 3.07 | 18.03                   | 3.03 | 17.51 | 3.07 | 18.24 |  |
| Centro Oriente   | Tula            | 01-PQI-115 | S.E. PARQUE INDUSTRIAL TEPEJI    | 01-PQI-115-1 | 115             | 23              | 20               | 3.04   | 16.59 | 3.14 | 17.52                   | 3.03 | 16.69 | 3.13 | 17.59 |  |
| Centro Oriente   | Puebla Oriente  | 02-INT-115 | INDUSTRIAL                       | 02-INT-115-2 | 115             | 34.5            | 30               | 3.07   | 16.74 | 3.12 | 17.66                   | 3.08 | 17.00 | 3.13 | 17.86 |  |
| Centro Oriente   | Tehuacan        | 02-EXE-115 | EXCELOPOTL                       | 02-EXE-115-1 | 115             | 34.5            | 30               | 3.08   | 11.78 | 3.13 | 13.26                   | 3.08 | 11.78 | 3.13 | 13.26 |  |
| Centro Oriente   | Puebla Poniente | 02-EXE-115 | EXCELOPOTL                       | 02-EXE-115-1 | 115             | 34.5            | 30               | 3.08   | 16.76 | 3.13 | 17.68                   | 3.08 | 17.05 | 3.13 | 17.90 |  |
| Centro Oriente   | Puebla Poniente | 02-NOR-115 | NORTE                            | 02-NOR-115-2 | 115             | 34.5            | 30               | 3.12   | 18.29 | 3.15 | 18.81                   | 3.12 | 18.62 | 3.15 | 19.04 |  |
| Centro Oriente   | Puebla Oriente  | 02-ORT-115 | ORIENTE                          | 02-ORT-115-2 | 115             | 34.5            | 30               | 3.12   | 16.91 | 3.17 | 17.79                   | 3.12 | 17.19 | 3.18 | 18.00 |  |
| Centro Oriente   | San Martin      | 02-SMG-115 | SAN MIGUEL                       | 02-SMG-115-1 | 115             | 34.5            | 30               | 3.17   | 17.14 | 3.25 | 17.95                   | 3.17 | 17.30 | 3.25 | 18.07 |  |
| Centro Oriente   | Puebla Poniente | 02-PSF-115 | PARQUE INDUSTRIAL SF6            | 02-PSF-115-1 | 115             | 34.5            | 30               | 3.17   | 17.14 | 3.25 | 17.95                   | 3.17 | 17.30 | 3.25 | 18.07 |  |
| Centro Oriente   | Puebla Poniente | 02-PSF-115 | PUEBLA UNO SF6                   | 02-PSF-115-1 | 115             | 34.5            | 30               | 3.18   | 16.62 | 3.22 | 17.57                   | 3.18 | 16.91 | 3.24 | 17.79 |  |
| Centro Oriente   | Puebla Poniente | 02-LRZ-115 | SAN LORENZO                      | 02-LRZ-115-1 | 115             | 34.5            | 30               | 3.20   | 18.79 | 3.22 | 19.16                   | 3.20 | 19.14 | 3.22 | 19.47 |  |
| Centro Oriente   | Tlaxcala        | 02-CTM-115 | CUAUHTEMOC                       | 02-CTM-115-1 | 115             | 34.5            | 30               | 3.21   | 14.13 | 3.33 | 15.53                   | 3.21 | 14.41 | 3.33 | 15.70 |  |
| Centro Oriente   | Puebla Oriente  | 02-BGS-115 |                                  |              |                 |                 |                  |  |       |      |                         |      |       |      |       |  |

Niveles de corto circuito de media tensión en las RGD, correspondientes al año 2020

| CFE Distribución   |                 |            |                            |              |                 |                 |                  |  |       |       |       |                         |       |       |       |
|--|-----------------|------------|----------------------------|--------------|-----------------|-----------------|------------------|--|-------|-------|-------|-------------------------|-------|-------|-------|
| NOTA: Con base a niveles de corto circuito de la Red Nacional de Transmisión 2020, publicado por el CENACE en Diciembre 2017 |                 |            |                            |              |                 |                 |                  |  |       |       |       |                         |       |       |       |
| División   | Zona            | Acronimo   | Subestación                | Banco        | Tensión AT (KV) | Tensión MT (KV) | Capacidad en MVA | Corriente de corto circuito (kA), y relación X/R |       |       |       |                         |       |       |       |
|  |                 |            |                            |              |                 |                 |                  | Nivel de CC mínimo 2020                          |       |       |       | Nivel de CC máximo 2020 |       |       |       |
|  |                 |            |                            |              |                 |                 |                  | 3F   | X/R   | 1F    | X/R   | 3F                      | X/R   | 1F    | X/R   |
| Centro Oriente   | Tecamachalco    | 02-TLD-115 | TECAMACHALCO II            | 02-TLD-115-1 | 115             | 13.8            | 30               | 7.45   | 13.65 | 7.77  | 15.11 | 7.46                    | 13.83 | 7.78  | 15.26 |
| Centro Oriente   | Puebla Oriente  | 02-AGA-115 | AGUA SANTA                 | 02-AGA-115-1 | 115             | 13.8            | 30               | 7.60   | 15.49 | 7.85  | 16.66 | 7.61                    | 15.73 | 7.86  | 16.85 |
| Centro Oriente   | Puebla Oriente  | 02-PO-115  | CHAPULCO                   | 02-PO-115-1  | 115             | 13.8            | 30               | 7.74   | 15.38 | 8.03  | 16.56 | 7.75                    | 15.62 | 8.04  | 16.75 |
| Centro Oriente   | Tlaxcala        | 02-PNA-115 | PANOTLA                    | 02-PNA-115-1 | 115             | 13.8            | 30               | 7.76   | 14.69 | 7.96  | 16.04 | 7.77                    | 14.88 | 7.96  | 16.19 |
| Centro Oriente   | Tlaxcala        | 02-API-115 | APIZACO II                 | 02-API-115-1 | 115             | 13.8            | 30               | 7.79   | 15.28 | 8.01  | 16.50 | 7.80                    | 15.57 | 8.02  | 16.73 |
| Centro Oriente   | Tecamachalco    | 02-ACZ-115 | ACA ZINGO                  | 02-ACZ-115-1 | 115             | 13.8            | 30               | 7.82   | 8.38  | 8.40  | 10.05 | 7.83                    | 8.46  | 8.41  | 10.12 |
| Centro Oriente   | San Martín      | 02-MOA-115 | EL MORAL                   | 02-MOA-115-1 | 115             | 13.8            | 30               | 7.87   | 16.33 | 8.12  | 17.32 | 7.88                    | 16.61 | 8.12  | 17.45 |
| Centro Oriente   | Puebla Oriente  | 02-RSN-115 | RESURRECCION               | 02-RSN-115-1 | 115             | 13.8            | 30               | 7.89   | 16.44 | 8.06  | 17.42 | 7.90                    | 16.71 | 8.07  | 17.63 |
| Centro Oriente   | Puebla Poniente | 02-TNZ-115 | TOMANZINTLA                | 02-TNZ-115-1 | 115             | 13.8            | 30               | 7.88   | 16.79 | 8.15  | 17.69 | 7.99                    | 17.09 | 8.16  | 17.92 |
| Centro Oriente   | San Martín      | 02-HJO-115 | HUEJOTZINGO II             | 02-HJO-115-1 | 115             | 13.8            | 30               | 8.06   | 16.79 | 8.27  | 17.68 | 8.07                    | 16.98 | 8.28  | 17.83 |
| Centro Oriente   | Puebla Oriente  | 02-PDM-115 | PUEBLA DOS MIL             | 02-PDM-115-1 | 115             | 13.8            | 30               | 8.11   | 17.77 | 8.21  | 18.43 | 8.12                    | 18.09 | 8.22  | 18.66 |
| Centro Oriente   | Puebla Oriente  | 02-FUE-115 | FUERTE ANALCO              | 02-FUE-115-1 | 115             | 13.8            | 30               | 8.61   | 16.90 | 8.75  | 17.78 | 8.62                    | 17.22 | 8.76  | 18.02 |
| Centro Oriente   | Puebla Oriente  | 02-FUE-115 | FUERTE                     | 02-FUE-115-1 | 115             | 13.8            | 30               | 8.17   | 16.12 | 8.33  | 17.18 | 8.18                    | 16.39 | 8.34  | 17.39 |
| Centro Oriente   | Tecamachalco    | 02-TML-115 | TECAMACHALCO               | 02-TML-115-1 | 115             | 13.8            | 30               | 8.19   | 13.14 | 8.56  | 14.66 | 8.20                    | 13.33 | 8.57  | 14.83 |
| Centro Oriente   | Puebla Poniente | 02-AUN-115 | ANTIQUO                    | 02-AUN-115-1 | 115             | 13.8            | 30               | 8.26   | 16.41 | 8.40  | 17.41 | 8.27                    | 16.71 | 8.41  | 17.64 |
| Centro Oriente   | Puebla Poniente | 02-AUN-115 | ANTIQUO                    | 02-AUN-115-1 | 115             | 13.8            | 30               | 8.28   | 16.41 | 8.42  | 17.41 | 8.29                    | 16.70 | 8.43  | 17.63 |
| Centro Oriente   | Puebla Poniente | 02-CON-115 | EL CONDE                   | 02-CON-115-1 | 115             | 13.8            | 30               | 8.61   | 16.90 | 8.75  | 17.78 | 8.62                    | 17.22 | 8.76  | 18.02 |
| Centro Oriente   | Tulancingo      | 01-IRO-230 | S.E. IROLO                 | 01-IRO-230-1 | 230             | 23              | 60               | 8.98   | 16.84 | 7.23  | 18.17 | 9.01                    | 17.31 | 7.24  | 18.45 |
| Centro Oriente   | Puebla Poniente | 02-PON-115 | POMIENTE                   | 02-PON-115-1 | 115             | 13.8            | 30               | 9.17   | 16.94 | 9.31  | 17.81 | 9.18                    | 17.29 | 9.32  | 18.07 |
| Centro Oriente   | Puebla Oriente  | 02-ORT-115 | ORIENTE                    | 02-ORT-115-1 | 115             | 13.8            | 30               | 9.20   | 16.45 | 9.39  | 17.44 | 9.22                    | 16.77 | 9.40  | 17.68 |
| Centro Oriente   | Tlaxcala        | 02-ANC-115 | SANTA ANA CHIAUHTEMPAN     | 02-ANC-115-2 | 115             | 13.8            | 30               | 9.49   | 15.63 | 9.74  | 16.79 | 9.50                    | 15.93 | 9.75  | 17.02 |
| Centro Oriente   | Puebla Poniente | 02-BOE-115 | BOQUES                     | 02-BOE-115-1 | 115             | 13.8            | 30               | 9.60   | 16.91 | 9.74  | 18.77 | 9.60                    | 16.41 | 9.74  | 18.96 |
| Centro Oriente   | Puebla Poniente | 02-BOE-115 | BOQUES                     | 02-BOE-115-1 | 115             | 13.8            | 30               | 9.60   | 16.91 | 9.79  | 17.78 | 9.61                    | 17.25 | 9.80  | 18.04 |
| Centro Oriente   | Pachuca         | 01-TIZ-230 | S.E. TIZAYUCA              | 01-TIZ-230-3 | 230             | 23              | 60               | 9.72   | 17.92 | 9.93  | 18.53 | 9.75                    | 18.57 | 9.95  | 19.00 |
| Centro Oriente   | Puebla Oriente  | 02-GAN-115 | GUADALUPE ANALCO           | 02-GAN-115-2 | 115             | 13.8            | 40               | 10.24  | 15.80 | 10.48 | 16.92 | 10.26                   | 16.13 | 10.49 | 17.18 |
| Centro Oriente   | Puebla Poniente | 02-PON-115 | POMIENTE                   | 02-PON-115-1 | 115             | 13.8            | 40               | 10.36  | 16.61 | 10.54 | 17.56 | 10.38                   | 16.99 | 10.56 | 17.85 |
| Centro Oriente   | Puebla Oriente  | 02-CY-115  | CINDE DE MAYO              | 02-CY-115-1  | 115             | 13.8            | 40               | 10.67  | 15.43 | 10.93 | 16.63 | 10.69                   | 15.77 | 10.95 | 16.90 |
| Centro Oriente   | Puebla Poniente | 02-PSF-115 | PUEBLA UNO SF6             | 02-PSF-115-2 | 115             | 13.8            | 40               | 10.70  | 15.70 | 10.94 | 16.85 | 10.72                   | 16.05 | 10.95 | 17.12 |
| Centro Oriente   | Puebla Oriente  | 02-CY-115  | CINDE DE MAYO              | 02-CY-115-1  | 115             | 13.8            | 40               | 10.77  | 14.48 | 11.10 | 15.85 | 10.79                   | 14.78 | 11.11 | 16.10 |
| Centro Oriente   | Puebla Poniente | 02-NOR-115 | NORTE                      | 02-NOR-115-3 | 115             | 13.8            | 40               | 11.03  | 17.67 | 11.17 | 18.36 | 11.05                   | 18.11 | 11.19 | 18.88 |
| Centro Oriente   | Puebla Poniente | 02-TIZ-230 | S.E. TIZAYUCA              | 01-TIZ-230-2 | 230             | 23              | 60               | 11.60  | 17.85 | 11.80 | 19.00 | 11.60                   | 18.02 | 11.80 | 19.22 |
| Centro Oriente   | Tulancingo      | 01-IRO-230 | S.E. IROLO                 | 01-IRO-230-2 | 230             | 23              | 60               | 21.19  | 13.88 | 13.48 | 16.85 | 21.34                   | 14.63 | 13.52 | 17.31 |
| Centro Oriente   | Tula            | 01-JRB-230 | S.E. JOROBAS               | 01-JRB-230-2 | 230             | 23              | 60               | 25.14  | 15.97 | 14.57 | 18.22 | 25.42                   | 17.45 | 14.63 | 18.94 |
| Centro Oriente   | Tula            | 01-JRB-230 | S.E. JOROBAS               | 01-JRB-230-1 | 230             | 23              | 60               | 26.35  | 15.95 | 14.64 | 18.21 | 25.64                   | 17.43 | 14.70 | 18.93 |
| Centro Sur   | Chilpancingo    | 02-CLT-69  | S.E. COLOTLIPA             | 02-CLT-69-1  | 69              | 13.8            | 6.25             | 1.60   | 7.91  | 1.80  | 9.33  | 1.68                    | 9.70  | 1.87  | 11.20 |
| Centro Sur   | Altamirano      | 02-PR-69   | S.E. ZIRAPAR               | 02-PR-69-1   | 69              | 13.8            | 6.25             | 1.82   | 8.88  | 2.12  | 10.22 | 1.89                    | 6.43  | 2.14  | 7.93  |
| Centro Sur   | Iguala          | 02-HEL-115 | S.E. HELIPIERTO            | 02-HEL-115-1 | 115             | 23              | 9.375            | 2.07   | 11.98 | 2.19  | 13.58 | 2.11                    | 13.68 | 2.22  | 15.10 |
| Centro Sur   | Altamirano      | 01-TLP-69  | S.E. TELOLOAPAN            | 01-TLP-69-1  | 69              | 13.8            | 9.375            | 2.17   | 4.34  | 2.59  | 5.20  | 2.16                    | 4.39  | 2.58  | 5.25  |
| Centro Sur   | Altamirano      | 01-TLP-69  | S.E. TELOLOAPAN            | 01-TLP-69-2  | 69              | 13.8            | 9.375            | 2.24   | 4.23  | 2.69  | 5.05  | 2.23                    | 4.27  | 2.68  | 5.10  |
| Centro Sur   | Atlixco         | 01-FRR-115 | SAN FRANCISCO DE LOS REYES | 01-FRR-115-1 | 115             | 23              | 20               | 2.46   | 9.09  | 2.69  | 10.67 | 2.46                    | 9.12  | 2.69  | 10.71 |
| Centro Sur   | Zihuatanejo     | 02-GL-115  | S.E. METLATONOC            | 02-GL-115-1  | 115             | 23              | 20               | 2.56   | 9.91  | 2.83  | 11.28 | 2.56                    | 10.00 | 2.80  | 11.58 |
| Centro Sur   | Valle de Bravo  | 01-VGU-115 | S.E. VILLA GUERRERO        | 01-VGU-115-1 | 115             | 23              | 20               | 2.56   | 9.91  | 2.80  | 11.48 | 2.56                    | 10.00 | 2.80  | 11.58 |
| Centro Sur   | Zihuatanejo     | 02-PPN-115 | S.E. PAPANOA               | 02-PPN-115-1 | 115             | 13.8            | 9.375            | 2.40   | 10.83 | 2.59  | 12.43 | 2.64                    | 12.52 | 2.77  | 14.10 |
| Centro Sur   | Iguala          | 02-TOX-115 | S.E. TAXCO                 | 02-TOX-115-1 | 115             | 23              | 20               | 2.59   | 10.42 | 2.80  | 12.03 | 2.64                    | 12.04 | 2.84  | 13.57 |
| Centro Sur   | Iguala          | 02-TOX-115 | S.E. TAXCO                 | 02-TOX-115-2 | 115             | 23              | 20               | 2.60   | 10.40 | 2.81  | 12.01 | 2.65                    | 12.02 | 2.85  | 13.56 |
| Centro Sur   | Valle de Bravo  | 01-AJO-115 | S.E. METLATONOC DE LA SAL  | 01-AJO-115-2 | 115             | 23              | 20               | 2.66   | 11.98 | 2.87  | 13.50 | 2.67                    | 11.40 | 2.87  | 13.69 |
| Centro Sur   | Atlixco         | 01-SMT-115 | S.E. SAN MATEO             | 01-SMT-115-1 | 115             | 23              | 20               | 2.74   | 15.15 | 2.84  | 16.37 | 2.74                    | 15.28 | 2.84  | 16.48 |
| Centro Sur   | Atlixco         | 01-CSN-115 | S.E. CANCHESDA NUEVA       | 01-CSN-115-1 | 115             | 23              | 20               | 2.88   | 10.97 | 3.07  | 12.62 | 2.88                    | 11.03 | 3.07  | 12.68 |
| Centro Sur   | Chilpancingo    | 02-AHZ-115 | S.E. ACAHUZOTLA            | 02-AHZ-115-1 | 115             | 13.8            | 9.375            | 2.87   | 11.12 | 3.04  | 12.78 | 2.91                    | 12.24 | 3.07  | 13.82 |
| Centro Sur   | Chilpancingo    | 02-AYT-115 | S.E. AYUTLA                | 02-AYT-115-1 | 115             | 13.8            | 9.375            | 2.87   | 11.12 | 3.04  | 12.78 | 2.91                    | 12.24 | 3.07  | 13.82 |
| Centro Sur   | Chilpancingo    | 02-AYT-115 | S.E. AYUTLA                | 02-AYT-115-2 | 115             | 13.8            | 20               | 2.98   | 5.53  | 3.00  | 5.53  | 3.00                    | 5.53  | 3.00  | 5.53  |
| Centro Sur   | Altamirano      | 01-TQC-115 | S.E. TIOQUICHO             | 01-TQC-115-1 | 115             | 13.8            | 9.375            | 2.89   | 12.08 | 3.08  | 13.65 | 3.00                    | 14.03 | 3.16  | 15.40 |
| Centro Sur   | Chilpancingo    | 02-MLN-115 | S.E. MALINALTEPEC          | 02-MLN-115-1 | 115             | 13.8            | 20               | 3.01   | 5.50  | 3.56  | 6.51  | 3.03                    | 5.72  | 3.58  | 6.75  |
| Centro Sur   | Atlixco         | 01-ATU-115 | S.E. ATLACOMULCO           | 01-ATU-115-3 | 115             | 23              | 20               | 3.10   | 16.15 | 3.18  | 17.19 | 3.10                    | 16.29 | 3.18  | 17.30 |
| Centro Sur   | Morelos         | 02-ZAR-85  | S.E. ZARATECA (REGION)     | 02-ZAR-85-1  | 85              | 23              | 30               | 3.18   | 8.92  | 3.22  | 10.32 | 3.29                    | 8.94  | 3.25  | 10.03 |
| Centro Sur   | Altamirano      | 02-CRL-115 | S.E. CARACOL               | 02-CRL-115-1 | 115             | 13.8            | 9.375            | 3.08   | 9.60  | 3.30  | 11.27 | 3.12                    | 10.48 | 3.34  | 12.14 |
| Centro Sur   | Atlixco         | 01-JIL-115 | S.E. JILOTEPEC             | 01-JIL-115-1 | 115             | 23              | 20               | 3.14   | 16.40 | 3.22  | 17.38 | 3.14                    | 16.83 | 3.22  | 17.71 |
| Centro Sur   | Altamirano      | 01-LAC-115 | S.E. LA CEIBA              | 01-LAC-115-1 | 115             | 13.8            | 9.375            | 3.06   | 13.16 | 3.21  | 14.67 | 3.18                    | 15.71 | 3.29  | 16.82 |
| Centro Sur   | Altamirano      | 02-CRL-115 | S.E. CARACOL               | 02-CRL-115-2 | 115             | 13.8            | 9.375            | 3.19   | 9.43  | 3.43  | 11.08 | 3.24                    | 10.80 | 3.47  | 11.96 |
| Centro Sur   | Chilpancingo    | 02-ETT-115 | S.E. EL TREINTA            | 02-ETT-115-1 | 115             | 13.8            | 9.375            | 3.23   | 6.89  | 3.22  | 6.89  | 3.22                    | 6.89  | 3.22  | 6.89  |
| Centro Sur   | Acapulco        | 02-ETT-115 | S.E. EL TREINTA            | 02-ETT-115-2 | 115             | 13.8            | 9.375            | 3.23   | 13.76 | 3.31  | 15.26 | 3.27                    | 15.69 | 3.34  | 16.85 |
| Centro Sur   | Atlixco         | 01-JIL-115 | S.E. JILOTEPEC             | 01-JIL-115-2 | 115             | 23              | 20               | 3.30   | 16.25 | 3.39  | 17.26 | 3.31                    | 16.69 | 3.40  | 17.61 |
| Centro Sur   | Valle de Bravo  | 01-AVA-115 | S.E. AVANDARO              | 01-AVA-115-1 | 115             | 13.8            | 20               | 3.31   | 15.92 | 3.37  | 17.03 | 3.31                    | 16.06 | 3.37  | 17.14 |
| Centro Sur   | Chilpancingo    | 02-TUG-115 | S.E. TLATLAUQUITEPEC       | 02-TUG-115-1 | 115             | 13.8            | 9.375            | 3.27   | 9.83  | 3.52  | 11.49 | 3.33                    | 10.91 | 3.56  | 12.54 |
| Centro Sur   | Valle de Bravo  | 02-LS-115  | S.E. LA ESTANCIA           | 02-LS-115-1  | 115             | 13.8            | 12.5             | 3.42   | 15.60 | 3.42  | 16.93 | 3.42                    | 16.93 | 3.42  | 16.93 |
| Centro Sur   | Zihuatanejo     | 02-PPN-115 | S.E. PAPANOA               | 02-PPN-115-2 | 115             | 13.8            | 12.5             | 2.97   | 9.75  | 3.28  | 11.29 | 3.36                    | 11.36 | 3.58  | 12.92 |
| Centro Sur   | Chilpancingo    | 02-HUJ-115 | S.E. HUAMULTITLAN          | 02-HUJ-115-1 | 115             | 13.8            | 20               | 3.31   | 6.83  | 3.80  | 8.09  | 3.36                    | 7.33  | 3.84  | 8.64  |
| Centro Sur   | Cuautla         | 02-AOS-115 | S.E. LOS ARCOS             | 02-AOS-115-1 | 115             | 13.8            | 9.375            | 3.39   | 19.08 | 3.42  | 19.37 | 3.39                    | 19.26 | 3.42  | 19.49 |
| Centro Sur   | Acapulco        | 02-THU-115 | S.E. TLACACOCHISTLAHUACA   | 02-THU-115-1 | 115             | 13.8            | 20               | 3.41   | 5.24  | 3.95  | 6.32  | 3.44                    | 5.44  | 3.97  | 6.55  |
| Centro Sur   | Atlixco         | 02-CMT-115 | S.E. CUERNATECA (REGION)   | 02-CMT-115-1 | 115             | 13.8            | 20               | 3.47   | 5.78  | 4.11  | 6.52  | 3.50                    | 5.73  | 4.11  | 6.52  |
| Centro Sur   | Atlixco         | 02-SLU-115 | S.E. SAN LUIS DE ACATLAN   | 02-SLU-115-1 | 115             | 13.8            | 20               | 3.47   | 5.42  | 4.01  | 6.54  | 3.50                    | 5.66  | 4.03  | 6.82  |
| Centro Sur   | Atlixco         | 01-ATU-115 | S.E. ATLACOMULCO           | 01-ATU-115-2 | 115             | 23              | 20               | 3.63   | 15.63 | 3.74  | 16.77 | 3.63                    | 15.79 | 3.74  | 16.90 |
| Centro Sur   | Iguala          | 02-IGU-115 | S.E. IGUALA                | 02-IGU-115-2 | 115             | 23              | 30               | 3.60   | 8.93  | 3.99  | 10.44 | 3.71                    | 10.61 | 4.08  | 12.13 |
| Centro Sur   | Morelos         | 02-CIO-85  | S.E. CENTENARIO            | 02-CIO-85-1  | 85              | 23              | 30               | 3.77   | 12.31 | 4.12  | 13.74 | 3.75                    | 12.44 | 4.10  | 13.85 |
| Centro Sur   | Iguala          | 02-IGU-115 | S.E. IGUALA                | 02-IGU-115-1 | 115             | 13.8            | 30               | 3.64   | 8.88  | 4.04  | 10.36 | 3.76                    | 10.56 | 4.13  | 12.08 |
| Centro Sur   | Chilpancingo    | 02-OLN-115 | S.E. OUNALA                |              |                 |                 |                  |  |       |       |       |                         |       |       |       |

Niveles de corto circuito de media tensión en las RGD,  
correspondientes al año 2020

| División     | Zona           | Acronimo    | Subestación                       | Banco         | Tensión AT (KV) | Tensión MT (KV) | Capacidad en MVA | Corriente de corto circuito (kA), y relación X/R |       |      |       |                         |       |      |       |
|--------------|----------------|-------------|-----------------------------------|---------------|-----------------|-----------------|------------------|--|-------|------|-------|-------------------------|-------|------|-------|
|              |                |             |                                   |               |                 |                 |                  | Nivel de CC mínimo 2020                          |       |      |       | Nivel de CC máximo 2020 |       |      |       |
|              |                |             |                                   |               |                 |                 |                  | 3F   | X/R   | 1F   | X/R   | 3F                      | X/R   | 1F   | X/R   |
| Centro Sur   | Valle de Bravo | 01-ANM-115  | S.E. AGUSTIN MILLAN               | 01-ANM-115-1  | 115             | 13.8            | 20               | 5.48   | 18.57 | 5.55 | 19.00 | 5.49                    | 18.79 | 5.56 | 19.16 |
| Centro Sur   | Cuautla        | 02-TPL-115  | S.E. TEPALCINGO                   | 02-TPL-115-1  | 115             | 13.8            | 20               | 5.52   | 18.52 | 5.81 | 14.97 | 5.52                    | 13.65 | 5.80 | 15.07 |
| Centro Sur   | Valle de Bravo | 01-ANM-115  | S.E. AGUSTIN MILLAN               | 01-ANM-115-2  | 115             | 13.8            | 20               | 5.97   | 18.45 | 6.05 | 19.92 | 5.99                    | 18.69 | 6.06 | 19.09 |
| Centro Sur   | Morelos        | 02-TLZ-85   | S.E. TALTIZAPAN                   | 02-TLZ-85-1   | 85              | 13.8            | 30               | 6.09   | 12.83 | 6.64 | 14.22 | 6.04                    | 12.94 | 6.61 | 14.31 |
| Centro Sur   | Atzacmulco     | 01-SMT-115  | S.E. SAN MATEO                    | 01-SMT-115-2  | 115             | 13.8            | 20               | 6.15   | 13.96 | 6.46 | 15.35 | 6.17                    | 14.11 | 6.47 | 15.48 |
| Centro Sur   | Acapulco       | 02-MIRA-115 | S.E. MIRA                         | 02-MIRA-115-1 | 115             | 13.8            | 20               | 6.07   | 10.78 | 6.41 | 12.49 | 6.23                    | 13.07 | 6.52 | 14.60 |
| Centro Sur   | Altamirano     | 01-ATM-115  | S.E. ALTAMIRANO II                | 01-ATM-115-1  | 115             | 13.8            | 20               | 6.25   | 8.88  | 6.86 | 10.45 | 6.41                    | 9.67  | 6.98 | 11.26 |
| Centro Sur   | Cuautla        | 02-TPL-115  | S.E. TEPALCINGO                   | 02-TPL-115-2  | 115             | 13.8            | 20               | 6.42   | 12.84 | 6.81 | 14.34 | 6.42                    | 12.97 | 6.81 | 14.49 |
| Centro Sur   | Acapulco       | 02-APC-115  | S.E. ACAPULCO                     | 02-APC-115-2  | 115             | 13.8            | 30               | 6.33   | 10.82 | 6.65 | 12.55 | 6.51                    | 13.27 | 6.78 | 14.79 |
| Centro Sur   | Acapulco       | 02-APC-115  | S.E. ACAPULCO                     | 02-APC-115-1  | 115             | 13.8            | 30               | 6.33   | 10.82 | 6.65 | 12.55 | 6.51                    | 13.27 | 6.78 | 14.79 |
| Centro Sur   | Acapulco       | 02-LAT-115  | S.E. LOS AMATES (REGION TRANSMIS) | 02-LAT-115-3  | 115             | 13.8            | 30               | 6.46   | 11.11 | 6.74 | 12.85 | 6.64                    | 13.80 | 6.87 | 15.26 |
| Centro Sur   | Acapulco       | 02-LAT-115  | S.E. LOS AMATES (REGION TRANSMIS) | 02-LAT-115-4  | 115             | 13.8            | 30               | 6.43   | 11.11 | 6.74 | 12.85 | 6.64                    | 13.80 | 6.87 | 15.26 |
| Centro Sur   | Acapulco       | 02-QMD-115  | S.E. QUEMADO (REGION TRANSMIS)    | 02-QMD-115-4  | 115             | 13.8            | 30               | 6.51   | 11.28 | 6.78 | 13.02 | 6.70                    | 14.10 | 6.91 | 15.53 |
| Centro Sur   | Zihuatanejo    | 02-ZHD-115  | S.E. ZIHUATANEJO II               | 02-ZHD-115-1  | 115             | 13.8            | 30               | 6.62   | 13.82 | 7.09 | 15.16 | 6.93                    | 13.72 | 7.32 | 15.12 |
| Centro Sur   | Zihuatanejo    | 02-ZHD-115  | S.E. ZIHUATANEJO II               | 02-ZHD-115-2  | 115             | 13.8            | 30               | 6.62   | 13.82 | 7.09 | 15.16 | 6.93                    | 13.72 | 7.32 | 15.12 |
| Centro Sur   | Zihuatanejo    | 02-ZHD-115  | S.E. ZIHUATANEJO II               | 02-ZHD-115-3  | 115             | 13.8            | 30               | 6.75   | 10.46 | 7.18 | 12.14 | 6.99                    | 13.15 | 7.35 | 14.64 |
| Centro Sur   | Zihuatanejo    | 02-ZIH-115  | S.E. ZIHUATANEJO I                | 02-ZIH-115-1  | 115             | 13.8            | 30               | 6.77   | 13.58 | 7.26 | 14.95 | 7.04                    | 13.38 | 7.47 | 14.81 |
| Centro Sur   | Zihuatanejo    | 02-ZIH-115  | S.E. ZIHUATANEJO I                | 02-ZIH-115-2  | 115             | 13.8            | 30               | 6.77   | 13.58 | 7.26 | 14.95 | 7.04                    | 13.38 | 7.47 | 14.81 |
| Centro Sur   | Acapulco       | 02-LTP-115  | S.E. LAGUNA DE TRES PALOS         | 02-LTP-115-1  | 115             | 13.8            | 30               | 6.90   | 9.88  | 7.32 | 11.60 | 7.10                    | 12.12 | 7.46 | 13.74 |
| Centro Sur   | Acapulco       | 02-PUM-115  | S.E. PUERTO MARQUES               | 02-PUM-115-1  | 115             | 13.8            | 30               | 6.94   | 10.58 | 7.30 | 12.31 | 7.14                    | 13.20 | 7.44 | 14.72 |
| Centro Sur   | Acapulco       | 02-CHD-115  | S.E. PLAYA DIAMANTE               | 02-CHD-115-1  | 115             | 13.8            | 30               | 6.95   | 9.54  | 7.36 | 11.71 | 7.15                    | 12.70 | 7.51 | 13.91 |
| Centro Sur   | Chilpancingo   | 02-CCS-115  | S.E. CHILPACINGO II               | 02-CCS-115-1  | 115             | 13.8            | 30               | 6.95   | 11.18 | 7.34 | 12.86 | 7.10                    | 14.35 | 7.52 | 15.69 |
| Centro Sur   | Acapulco       | 02-PDI-115  | S.E. PLAYA DIAMANTE               | 02-PDI-115-2  | 115             | 13.8            | 30               | 7.07   | 9.90  | 7.50 | 11.62 | 7.28                    | 12.22 | 7.66 | 13.83 |
| Centro Sur   | Acapulco       | 02-CAY-115  | S.E. CAYACO                       | 02-CAY-115-1  | 115             | 13.8            | 30               | 7.07   | 10.63 | 7.42 | 12.38 | 7.29                    | 13.36 | 7.57 | 14.87 |
| Centro Sur   | Morelos        | 02-JUT-115  | S.E. JOJUTLA                      | 02-JUT-115-1  | 115             | 13.8            | 30               | 7.39   | 14.11 | 7.73 | 15.49 | 7.40                    | 14.46 | 7.74 | 15.78 |
| Centro Sur   | Atzacmulco     | 02-BNL-115  | S.E. BONFIL                       | 02-BNL-115-1  | 115             | 13.8            | 30               | 7.29   | 10.65 | 7.69 | 12.41 | 7.41                    | 13.89 | 7.81 | 15.33 |
| Centro Sur   | Morelos        | 02-JUT-115  | S.E. JOJUTLA                      | 02-JUT-115-2  | 115             | 13.8            | 30               | 7.47   | 14.06 | 7.83 | 15.44 | 7.49                    | 14.42 | 7.83 | 15.74 |
| Centro Sur   | Acapulco       | 02-LMM-115  | S.E. LOMAS DEL MAR                | 02-LMM-115-1  | 115             | 13.8            | 30               | 7.29   | 10.21 | 7.70 | 11.94 | 7.52                    | 12.78 | 7.86 | 14.35 |
| Centro Sur   | Acapulco       | 02-MOZ-115  | S.E. MOZIMBA                      | 02-MOZ-115-1  | 115             | 13.8            | 30               | 7.28   | 10.30 | 7.73 | 12.01 | 7.52                    | 12.87 | 7.90 | 14.41 |
| Centro Sur   | Cuernavaca     | 01-MOR-230  | MORELOS                           | 01-MOR-230-1  | 230             | 23              | 60               | 7.54   | 17.26 | 7.71 | 18.04 | 7.56                    | 17.84 | 7.72 | 18.47 |
| Centro Sur   | Acapulco       | 02-PYS-115  | S.E. PLAYAS                       | 02-PYS-115-1  | 115             | 13.8            | 30               | 7.35   | 9.79  | 7.84 | 11.49 | 7.59                    | 12.13 | 8.02 | 13.73 |
| Centro Sur   | Acapulco       | 02-GAR-115  | S.E. GARITA                       | 02-GAR-115-2  | 115             | 13.8            | 30               | 7.35   | 10.45 | 7.75 | 12.18 | 7.59                    | 13.17 | 7.93 | 14.70 |
| Centro Sur   | Cuautla        | 02-LOC-115  | S.E. LOMAS DE COCOYOC             | 02-LOC-115-1  | 115             | 13.8            | 30               | 7.65   | 15.14 | 7.91 | 16.37 | 7.84                    | 15.37 | 7.90 | 16.55 |
| Centro Sur   | Chilpancingo   | 02-ARC-115  | S.E. ADOLFO RUIZ CORTINES         | 02-ARC-115-1  | 115             | 13.8            | 30               | 7.43   | 9.27  | 7.86 | 11.65 | 7.75                    | 12.70 | 8.17 | 14.22 |
| Centro Sur   | Acapulco       | 02-ARC-115  | S.E. ADOLFO RUIZ CORTINES         | 02-ARC-115-2  | 115             | 13.8            | 30               | 7.55   | 9.82  | 8.01 | 11.54 | 7.80                    | 12.28 | 8.20 | 13.89 |
| Centro Sur   | Zihuatanejo    | 02-PUJ-115  | S.E. PUNTA IXTAPA                 | 02-PUJ-115-1  | 115             | 13.8            | 30               | 7.51   | 14.30 | 8.06 | 15.56 | 7.82                    | 13.95 | 8.30 | 15.30 |
| Centro Sur   | Acapulco       | 02-ARC-115  | S.E. ADOLFO RUIZ CORTINES         | 02-ARC-115-2  | 115             | 13.8            | 30               | 7.61   | 11.50 | 7.98 | 11.50 | 7.87                    | 12.24 | 8.27 | 13.85 |
| Centro Sur   | Zihuatanejo    | 02-PUJ-115  | S.E. PUNTA IXTAPA                 | 02-PUJ-115-2  | 115             | 13.8            | 30               | 7.57   | 14.27 | 8.13 | 15.53 | 7.89                    | 13.91 | 8.37 | 15.27 |
| Centro Sur   | Acapulco       | 02-CAZ-115  | S.E. COSTA AZUL                   | 02-CAZ-115-1  | 115             | 13.8            | 30               | 7.62   | 9.94  | 8.02 | 11.66 | 7.84                    | 12.66 | 8.41 | 14.13 |
| Centro Sur   | Acapulco       | 02-CAZ-115  | S.E. COSTA AZUL                   | 02-CAZ-115-2  | 115             | 13.8            | 30               | 7.78   | 9.92  | 8.24 | 11.65 | 8.04                    | 12.54 | 8.43 | 14.12 |
| Centro Sur   | Acapulco       | 02-GAR-115  | S.E. GARITA                       | 02-GAR-115-1  | 115             | 13.8            | 30               | 7.80   | 10.16 | 8.25 | 11.88 | 8.07                    | 12.90 | 8.45 | 14.44 |
| Centro Sur   | Acapulco       | 02-PUM-115  | S.E. PUERTO MARQUES               | 02-PUM-115-2  | 115             | 13.8            | 30               | 7.99   | 9.87  | 8.47 | 11.60 | 8.26                    | 12.53 | 8.67 | 14.11 |
| Centro Sur   | Cuautla        | 02-GUA-115  | S.E. CUAUTLA                      | 02-GUA-115-2  | 115             | 13.8            | 30               | 8.29   | 15.13 | 8.59 | 16.36 | 8.29                    | 15.37 | 8.59 | 16.55 |
| Centro Sur   | Cuautla        | 02-LOC-115  | S.E. LOMAS DE COCOYOC             | 02-LOC-115-1  | 115             | 13.8            | 30               | 8.29   | 15.13 | 8.59 | 16.36 | 8.29                    | 15.37 | 8.59 | 16.55 |
| Centro Sur   | Acapulco       | 02-REN-115  | S.E. RENACIMIENTO                 | 02-REN-115-2  | 115             | 13.8            | 30               | 8.14   | 9.82  | 8.60 | 11.56 | 8.43                    | 12.52 | 8.82 | 14.12 |
| Centro Sur   | Acapulco       | 02-REN-115  | S.E. RENACIMIENTO                 | 02-REN-115-1  | 115             | 13.8            | 30               | 8.18   | 9.79  | 8.65 | 11.53 | 8.48                    | 12.49 | 8.87 | 14.09 |
| Centro Sur   | Cuautla        | 02-GUA-115  | S.E. CUAUTLA                      | 02-GUA-115-1  | 115             | 13.8            | 30               | 8.83   | 14.89 | 9.17 | 16.16 | 8.82                    | 15.14 | 9.16 | 16.36 |
| Golfo Centro | Victoria       | 06-NOI-115  | LAS NORIAS                        | 06-NOI-115-1  | 115             | 34.5            | 9.375            | 0.98   | 6.97  | 1.09 | 8.40  | 0.98                    | 6.97  | 1.09 | 8.40  |
| Golfo Centro | Rio Verde      | 06-TBC-115  | TAMBACA                           | 06-TBC-115-1  | 115             | 34.5            | 9.375            | 1.24   | 13.47 | 1.28 | 14.98 | 1.24                    | 13.47 | 1.28 | 14.98 |
| Golfo Centro | Mante          | 06-CIT-115  | CITROFRUT                         | 06-CIT-115-1  | 115             | 34.5            | 9.375            | 1.29   | 16.24 | 1.31 | 17.28 | 1.29                    | 16.29 | 1.31 | 17.31 |
| Golfo Centro | Victoria       | 06-VRA-115  | VICTORIA                          | 06-VRA-115-3  | 115             | 34.5            | 9.375            | 1.30   | 17.20 | 1.32 | 18.00 | 1.30                    | 17.17 | 1.32 | 17.98 |
| Golfo Centro | Huejutla       | 06-APX-115  | ATLAPEXCO                         | 06-APX-115-1  | 115             | 34.5            | 9.375            | 1.36   | 10.68 | 1.45 | 12.34 | 1.36                    | 10.71 | 1.45 | 12.37 |
| Golfo Centro | Victoria       | 06-SOT-115  | SANTA MARINA                      | 06-SOT-115-1  | 115             | 34.5            | 9.375            | 1.42   | 11.59 | 1.52 | 13.44 | 1.42                    | 11.62 | 1.52 | 13.47 |
| Golfo Centro | Valles         | 06-AXA-115  | AXTLA                             | 06-AXA-115-1  | 115             | 34.5            | 20               | 1.42   | 5.79  | 1.62 | 6.99  | 1.42                    | 5.80  | 1.62 | 7.00  |
| Golfo Centro | Matehuala      | 03-CAK-110  | CHARGAS DISTRIBUCION              | 03-CAK-110-1  | 110             | 34.5            | 9.375            | 1.46   | 16.32 | 1.49 | 17.33 | 1.46                    | 16.40 | 1.49 | 17.39 |
| Golfo Centro | Valles         | 06-HST-115  | HUASTECA                          | 06-HST-115-1  | 115             | 34.5            | 20               | 1.49   | 6.18  | 1.68 | 7.49  | 1.49                    | 6.18  | 1.68 | 7.49  |
| Golfo Centro | Huejutla       | 06-HJD-115  | HUEJUTLA DOS                      | 06-HJD-115-1  | 115             | 34.5            | 20               | 1.60   | 8.55  | 1.75 | 10.12 | 1.60                    | 8.56  | 1.75 | 10.13 |
| Golfo Centro | Valles         | 06-JIM-115  | JIMENEZ                           | 06-JIM-115-1  | 115             | 34.5            | 20               | 1.63   | 7.54  | 1.83 | 9.20  | 1.63                    | 7.54  | 1.83 | 9.20  |
| Golfo Centro | Mante          | 06-MAN-115  | MANTE                             | 06-MAN-115-3  | 115             | 34.5            | 20               | 1.58   | 7.04  | 1.77 | 9.82  | 1.58                    | 7.04  | 1.77 | 9.82  |
| Golfo Centro | Valles         | 06-TZE-115  | TAMAZUNCHALE                      | 06-TZE-115-1  | 115             | 34.5            | 30               | 1.65   | 4.67  | 1.98 | 5.54  | 1.65                    | 4.68  | 1.98 | 5.55  |
| Golfo Centro | Rio Verde      | 06-STO-115  | EL SALTO                          | 06-STO-115-2  | 115             | 34.5            | 12.5             | 1.46   | 10.05 | 1.75 | 11.73 | 1.67                    | 10.89 | 1.77 | 12.55 |
| Golfo Centro | Huejutla       | 06-TEB-115  | TEMPORAL DOS                      | 06-TEB-115-1  | 115             | 34.5            | 20               | 1.67   | 9.46  | 1.82 | 11.05 | 1.67                    | 9.45  | 1.82 | 11.04 |
| Golfo Centro | Rio Verde      | 06-SAL-115  | EL SALTO                          | 06-SAL-115-1  | 115             | 34.5            | 12.5             | 1.67   | 10.00 | 1.77 | 11.68 | 1.67                    | 10.89 | 1.79 | 12.50 |
| Golfo Centro | Rio Verde      | 06-RAY-115  | RAYON                             | 06-RAY-115-2  | 115             | 34.5            | 20               | 1.74   | 9.95  | 1.87 | 11.61 | 1.74                    | 9.95  | 1.87 | 11.60 |
| Golfo Centro | Matehuala      | 03-GDL-115  | GUADALCAZAR                       | 03-GDL-115-1  | 115             | 34.5            | 20               | 1.79   | 5.12  | 2.04 | 6.26  | 1.79                    | 5.14  | 2.04 | 6.28  |
| Golfo Centro | Huejutla       | 06-HGD-115  | HIGDO DOS                         | 06-HGD-115-1  | 115             | 34.5            | 20               | 1.80   | 11.17 | 1.95 | 12.75 | 1.80                    | 11.12 | 1.94 | 12.71 |
| Golfo Centro | Mante          | 06-AZI-115  | AZTECAS                           | 06-AZI-115-1  | 115             | 34.5            | 20               | 1.83   | 10.66 | 1.95 | 12.34 | 1.84                    | 10.74 | 1.95 | 12.41 |
| Golfo Centro | Huejutla       | 06-HUH-115  | HUICHILAYAN                       | 06-HUH-115-1  | 115             | 34.5            | 20               | 1.82   | 9.80  | 1.92 | 11.51 | 1.82                    | 9.80  | 1.92 | 11.51 |

Niveles de corto circuito de media tensión en las RGD,  
correspondientes al año 2020



NOTA: Con base a niveles de corto circuito de la Red Nacional de Transmisión 2020, publicado por el CENACE en Diciembre 2017

| División     | Zona                  | Acrónimo     | Subestación             | Banco          | Tensión Añ (kV) | Tensión MT (kV) | Capacidad en MVA | Corriente de corto circuito (kA), y relación X/R |       |      |       |                         |       |      |       |
|--------------|-----------------------|--------------|-------------------------|----------------|-----------------|-----------------|------------------|--|-------|------|-------|-------------------------|-------|------|-------|
|              |                       |              |                         |                |                 |                 |                  | Nivel de CC mínimo 2020                          |       |      |       | Nivel de CC máximo 2020 |       |      |       |
|              |                       |              |                         |                |                 |                 |                  | 3F   | X/R   | 1F   | X/R   | 3F                      | X/R   | 1F   | X/R   |
| Golfo Centro | San Luis Potosí       | 03-SGS-110   | SOLEIDAD DE G. S.       | 03-SGS-110-1   | 110             | 13.8            | 30               | 7.47   | 16.36 | 7.67 | 17.35 | 7.48                    | 16.78 | 7.68 | 16.77 |
| Golfo Centro | San Luis Potosí       | 03-SLW-110   | SAN LUIS PONIENTE       | 03-SLW-110-2   | 110             | 13.8            | 30               | 7.47   | 14.77 | 7.72 | 16.08 | 7.49                    | 15.11 | 7.73 | 16.35 |
| Golfo Centro | San Luis Potosí       | 03-PDR-115   | SAN PEDRO               | 03-PDR-115-1   | 115             | 13.8            | 30               | 7.68   | 15.10 | 7.90 | 16.35 | 7.69                    | 16.78 | 7.75 | 17.67 |
| Golfo Centro | Victoria              | 06-OVO-115   | OLIVO                   | 06-OVO-115-2   | 115             | 13.8            | 30               | 7.58   | 16.47 | 7.82 | 17.43 | 7.58                    | 16.47 | 7.82 | 17.38 |
| Golfo Centro | San Luis Potosí       | 03-SNE-115   | SAN LUIS NORTE          | 03-SNE-115-1   | 115             | 13.8            | 30               | 7.57   | 14.76 | 7.86 | 16.05 | 7.58                    | 15.07 | 7.87 | 16.30 |
| Golfo Centro | Victoria              | 06-VRA-115   | VICTORIA                | 06-VRA-115-1   | 115             | 13.8            | 30               | 7.62   | 14.48 | 7.93 | 15.82 | 7.62                    | 14.43 | 7.92 | 15.78 |
| Golfo Centro | Victoria              | 06-VRA-115   | VICTORIA                | 06-VRA-115-2   | 115             | 13.8            | 30               | 7.65   | 14.47 | 7.96 | 15.80 | 7.65                    | 14.42 | 7.96 | 15.76 |
| Golfo Centro | Tampico               | 06-RMA-115   | RANCHO PROGRESO         | 06-RMA-115-2   | 115             | 13.8            | 30               | 7.92   | 17.08 | 8.06 | 17.92 | 7.95                    | 17.82 | 8.09 | 18.46 |
| Golfo Centro | Tampico               | 06-RMA-115   | REFINERÍA MADERO        | 06-RMA-115-1   | 115             | 13.8            | 30               | 7.65   | 17.25 | 7.82 | 18.03 | 7.71                    | 17.87 | 7.86 | 18.50 |
| Golfo Centro | Tampico               | 06-INF-115   | INFONAVIT               | 06-INF-115-1   | 115             | 13.8            | 30               | 7.73   | 17.62 | 7.88 | 18.31 | 7.75                    | 17.70 | 7.89 | 18.37 |
| Golfo Centro | San Luis Potosí       | 03-LOG-115   | LOGISTIK                | 03-LOG-115-1   | 115             | 13.8            | 30               | 7.72   | 14.59 | 7.95 | 15.94 | 7.75                    | 15.11 | 7.97 | 16.37 |
| Golfo Centro | San Luis Potosí       | 03-SPR-110   | SAN LUIS INDUSTRIAL     | 03-SPR-110-2   | 110             | 13.8            | 30               | 7.74   | 16.42 | 7.91 | 17.41 | 7.77                    | 17.10 | 7.93 | 17.92 |
| Golfo Centro | San Luis Potosí       | 03-SLO-110   | SAN LUIS ORIENTE        | 03-SLO-110-1   | 110             | 13.8            | 30               | 7.80   | 15.90 | 8.00 | 16.99 | 7.82                    | 16.40 | 8.02 | 17.38 |
| Golfo Centro | San Luis Potosí       | 03-SLI-110   | SAN LUIS INDUSTRIAL     | 03-SLI-110-2   | 110             | 13.8            | 30               | 7.84   | 16.38 | 8.01 | 17.38 | 7.87                    | 17.07 | 8.03 | 17.90 |
| Golfo Centro | Tampico               | 06-TAM-115   | TAMAULIPAS              | 06-TAM-115-1   | 115             | 13.8            | 30               | 7.85   | 17.11 | 8.01 | 17.93 | 7.87                    | 17.26 | 8.03 | 18.05 |
| Golfo Centro | Tampico               | 06-PUO-115   | PUERTO                  | 06-PUO-115-1   | 115             | 13.8            | 30               | 7.90   | 19.12 | 7.99 | 19.39 | 7.91                    | 19.24 | 8.00 | 19.47 |
| Golfo Centro | San Luis Potosí       | 03-SLP-115   | SAN LUIS LINO           | 03-SLP-115-1   | 115             | 13.8            | 30               | 7.95   | 17.08 | 8.06 | 17.92 | 7.95                    | 17.82 | 8.09 | 18.46 |
| Golfo Centro | San Luis Potosí       | 03-TEN-115   | TRES NACIONES           | 03-TEN-115-1   | 115             | 13.8            | 30               | 7.92   | 16.43 | 8.09 | 17.42 | 7.99                    | 17.12 | 8.11 | 17.94 |
| Golfo Centro | San Luis Potosí       | 03-SLP-115   | SAN LUIS LINO           | 03-SLP-115-4   | 115             | 13.8            | 30               | 7.95   | 17.08 | 8.09 | 17.91 | 7.98                    | 17.82 | 8.11 | 18.46 |
| Golfo Centro | Tampico               | 06-UNT-115   | UNIVERSIDAD             | 06-UNT-115-1   | 115             | 13.8            | 30               | 7.98   | 17.61 | 8.13 | 18.31 | 8.01                    | 17.87 | 8.15 | 18.50 |
| Golfo Centro | San Luis Potosí       | 03-SLO-110   | SAN LUIS ORIENTE        | 03-SLO-110-2   | 110             | 13.8            | 30               | 8.00   | 15.81 | 8.21 | 16.93 | 8.02                    | 16.32 | 8.23 | 17.33 |
| Golfo Centro | Tampico               | 06-TPC-115   | TAMPIO                  | 06-TPC-115-1   | 115             | 13.8            | 30               | 8.07   | 19.81 | 8.16 | 19.17 | 8.08                    | 18.17 | 8.24 | 19.23 |
| Golfo Centro | Tampico               | 06-ETK-115   | ENERTEK                 | 06-ETK-115-1   | 115             | 13.8            | 30               | 8.17   | 18.48 | 8.29 | 18.94 | 8.19                    | 18.61 | 8.30 | 19.03 |
| Golfo Centro | Tampico               | 06-CHR-115   | CHAIRESL                | 06-CHR-115-2   | 115             | 13.8            | 30               | 8.18   | 17.62 | 8.33 | 18.31 | 8.20                    | 17.71 | 8.34 | 18.38 |
| Golfo Centro | Tampico               | 06-TCL-115   | TANCOEL                 | 06-TCL-115-1   | 115             | 13.8            | 30               | 8.26   | 17.66 | 8.42 | 18.34 | 8.27                    | 17.74 | 8.43 | 18.40 |
| Golfo Centro | Tampico               | 06-UNT-115   | UNIVERSIDAD             | 06-UNT-115-2   | 115             | 13.8            | 30               | 8.25   | 17.54 | 8.41 | 18.26 | 8.28                    | 17.80 | 8.43 | 18.45 |
| Golfo Centro | Tampico               | 06-POL-115   | POLVORIN                | 06-POL-115-1   | 115             | 13.8            | 30               | 8.27   | 18.22 | 8.42 | 18.93 | 8.29                    | 17.91 | 8.50 | 19.28 |
| Golfo Centro | Tampico               | 06-TAM-115   | TAMAULIPAS              | 06-TAM-115-2   | 115             | 13.8            | 30               | 8.47   | 16.92 | 8.66 | 17.78 | 8.49                    | 17.08 | 8.68 | 17.91 |
| Golfo Centro | Tampico               | 06-POL-115   | POLVORIN                | 06-POL-115-1   | 115             | 13.8            | 30               | 8.50   | 17.65 | 8.65 | 18.33 | 8.54                    | 18.02 | 8.68 | 18.60 |
| Golfo Centro | Tampico               | 06-CHR-115   | CHAIRESL                | 06-CHR-115-1   | 115             | 13.8            | 30               | 8.57   | 17.52 | 8.73 | 18.24 | 8.58                    | 17.61 | 8.74 | 18.31 |
| Golfo Centro | Tampico               | 06-TPC-115   | TAMPIO                  | 06-TPC-115-3   | 115             | 13.8            | 30               | 8.72   | 18.72 | 8.83 | 19.11 | 8.74                    | 18.81 | 8.84 | 19.18 |
| Golfo Centro | San Luis Potosí       | 03-SLP-115   | SAN LUIS LINO           | 03-SLP-115-2   | 115             | 13.8            | 30               | 8.74   | 17.08 | 8.94 | 17.92 | 8.02                    | 17.33 | 8.14 | 18.62 |
| Golfo Norte  | Nuevo Laredo          | 06-SDO-138   | RIO SALADO              | 06-SDO-138-1   | 138             | 34.5            | 62.5             | 0.82   | 16.16 | 0.84 | 17.22 | 0.83                    | 16.46 | 0.84 | 17.44 |
| Golfo Norte  | Sabinas               | 06-KIK-115   | S.E. KIKAPU             | 06-KIK-115-1   | 115             | 34.5            | 62.5             | 0.96   | 13.26 | 1.00 | 14.75 | 0.96                    | 13.55 | 1.01 | 15.01 |
| Golfo Norte  | Monclova              | 06-CCE-115   | CUATROCIENTEGAS 115     | 06-CCE-115-1   | 115             | 34.5            | 9.375            | 1.13   | 8.06  | 1.21 | 9.74  | 1.14                    | 8.10  | 1.22 | 9.78  |
| Golfo Norte  | Matamoros             | 06-FDO-115   | SAN FERNANDO            | 06-FDO-115-1   | 115             | 34.5            | 20               | 1.26   | 5.08  | 1.49 | 6.07  | 1.26                    | 5.08  | 1.49 | 6.08  |
| Golfo Norte  | Montemorelos          | 06-RBO-115   | RAMOS ARIZPE            | 06-RBO-115-2   | 115             | 34.5            | 12.5             | 1.42   | 6.37  | 1.69 | 6.92  | 1.47                    | 6.50  | 1.72 |       |
| Golfo Norte  | Nuevo Laredo          | 06-ANH-138   | ANAHUAC                 | 06-ANH-138-2   | 138             | 34.5            | 12.5             | 1.66   | 12.66 | 1.76 | 14.16 | 1.67                    | 13.08 | 1.77 | 14.54 |
| Golfo Norte  | Cerrozar Sabinas      | 06-SAH-115   | SABINAS HIDALGO         | 06-SAH-115-2   | 115             | 34.5            | 20               | 1.73   | 8.88  | 1.90 | 10.46 | 1.74                    | 8.94  | 1.90 | 10.53 |
| Golfo Norte  | Nuevo Laredo          | 06-FAM-138   | FALCON                  | 06-FAM-138-4   | 138             | 34.5            | 12.5             | 1.86   | 14.61 | 1.86 | 15.95 | 1.82                    | 15.30 | 1.87 | 16.52 |
| Golfo Norte  | Cerrozar Sabinas      | 06-SAH-115   | SABINAS HIDALGO         | 06-SAH-115-1   | 115             | 34.5            | 20               | 1.87   | 8.50  | 2.06 | 10.04 | 1.88                    | 8.56  | 2.07 | 10.10 |
| Golfo Norte  | Cerrozar Sabinas      | 06-CER-115   | CERRAZAR                | 06-CER-115-1   | 115             | 34.5            | 20               | 1.89   | 9.23  | 2.11 | 10.81 | 1.90                    | 9.59  | 2.12 | 10.31 |
| Golfo Norte  | Cerrozar Sabinas      | 06-CJA-115   | CEJA                    | 06-CJA-115-1   | 115             | 34.5            | 20               | 1.84   | 13.73 | 1.98 | 15.05 | 1.95                    | 15.43 | 2.07 | 16.53 |
| Golfo Norte  | Monclova              | 06-NAD-115F  | NADADORES               | 06-NAD-115F-1  | 115             | 34.5            | 20               | 1.96   | 11.56 | 2.05 | 13.27 | 1.97                    | 11.71 | 2.05 | 13.41 |
| Golfo Norte  | Saltillo              | 06-NVD-115   | NAVIDAD                 | 06-NVD-115-2   | 115             | 34.5            | 20               | 1.93   | 8.47  | 2.17 | 9.93  | 1.98                    | 9.33  | 2.21 | 10.82 |
| Golfo Norte  | Montemorelos          | 06-LDA-115   | LADRILLERA              | 06-LDA-115-2   | 115             | 34.5            | 20               | 1.67   | 7.90  | 1.85 | 9.38  | 1.67                    | 12.04 | 2.13 | 13.66 |
| Golfo Norte  | Cerrozar Sabinas      | 06-AM-138    | AMISTAD                 | 06-AM-138-1    | 138             | 34.5            | 12.5             | 2.07   | 13.15 | 2.27 | 14.68 | 2.15                    | 13.80 | 2.24 | 15.61 |
| Golfo Norte  | Piedras Negras        | 06-MTM-138   | MATAMOROS               | 06-MTM-138-4   | 138             | 34.5            | 12.5             | 2.17   | 17.87 | 2.20 | 18.50 | 2.17                    | 18.03 | 2.20 | 18.62 |
| Golfo Norte  | Saltillo              | 06-RRR-115   | RAMOS ARIZPE II         | 06-RRR-115-1   | 115             | 34.5            | 20               | 2.20   | 18.38 | 2.23 | 18.87 | 2.21                    | 18.64 | 2.23 | 19.05 |
| Golfo Norte  | Reynosa               | 06-VDL-138   | VALDECECS               | 06-VDL-138-1   | 138             | 34.5            | 62.5             | 2.22   | 16.49 | 2.25 | 17.47 | 2.26                    | 17.81 | 2.28 | 18.46 |
| Golfo Norte  | Sabinas               | 06-ESP-115   | S.E. ESPERANZAS II      | 06-ESP-115-2   | 115             | 34.5            | 30               | 2.30   | 9.05  | 2.56 | 10.54 | 2.34                    | 9.59  | 2.59 | 10.86 |
| Golfo Norte  | Monclova              | 06-MON-115   | MONCLOVA                | 06-MON-115-8   | 115             | 34.5            | 20               | 2.36   | 18.17 | 2.41 | 18.71 | 2.37                    | 18.70 | 2.42 | 19.09 |
| Golfo Norte  | Nuevo Laredo          | 06-CFT-138   | CODEFRONT               | 06-CFT-138-1   | 138             | 34.5            | 30               | 2.42   | 13.59 | 2.60 | 14.94 | 2.45                    | 14.31 | 2.63 | 15.57 |
| Golfo Norte  | Saltillo              | 06-NVD-115   | NAVIDAD                 | 06-NVD-115-1   | 115             | 34.5            | 62.5             | 2.53   | 11.70 | 2.68 | 13.32 | 2.56                    | 12.58 | 2.70 | 14.14 |
| Golfo Norte  | Metropolitana Oriente | 06-NAV-138B2 | NAVIGACION DOS          | 06-NAV-138B2-1 | 138             | 34.5            | 20               | 2.61   | 12.22 | 2.72 | 13.82 | 2.64                    | 13.22 | 2.76 | 14.33 |
| Golfo Norte  | Piedras Negras        | 06-NAV-138   | NAVA                    | 06-NAV-138-5   | 138             | 34.5            | 20               | 2.63   | 17.37 | 2.67 | 18.09 | 2.65                    | 18.47 | 2.70 | 18.93 |
| Golfo Norte  | Matamoros             | 06-VSR-138   | VALLE SUR               | 06-VSR-138-1   | 138             | 34.5            | 30               | 2.70   | 10.72 | 2.88 | 12.39 | 2.71                    | 10.88 | 2.89 | 12.54 |
| Golfo Norte  | Reynosa               | 06-VEC-138   | VERDE CORPORATE         | 06-VEC-138-1   | 138             | 34.5            | 30               | 2.81   | 16.20 | 2.87 | 17.24 | 2.83                    | 16.59 | 2.89 | 17.54 |
| Golfo Norte  | Reynosa               | 06-POG-138   | PROLOGIS                | 06-POG-138-1   | 138             | 34.5            | 30               | 2.95   | 16.89 | 2.91 | 17.77 | 2.87                    | 17.47 | 2.92 | 18.20 |
| Golfo Norte  | Piedras Negras        | 06-PIU-138   | PARQUE INDUSTRIAL ACUNA | 06-PIU-138-1   | 138             | 34.5            | 30               | 2.98   | 16.12 | 2.94 | 16.87 | 2.92                    | 16.39 | 2.97 | 18.00 |
| Golfo Norte  | Reynosa               | 06-PIP-138   | PUENTE INDUSTRIAL PARK  | 06-PIP-138-1   | 138             | 34.5            | 30               | 2.93   | 16.08 | 3.00 | 17.14 | 2.94                    | 16.46 | 3.01 | 17.44 |
| Golfo Norte  | Piedras Negras        | 06-ACD-138   | ACUNA DOS               | 06-ACD-138-1   | 138             | 34.5            | 30               | 2.88   | 15.76 | 3.01 | 16.84 | 2.94                    | 16.97 | 3.05 | 17.80 |
| Golfo Norte  | Reynosa               | 06-ORZ-138   | ORIZALAN                | 06-ORZ-138-1   | 138             | 34.5            | 30               | 2.93   | 17.23 | 2.99 | 18.02 | 2.95                    | 17.84 | 3.00 | 18.47 |
| Golfo Norte  | Reynosa               | 06-PIU-138   | INDUSTRIAL COLONIAL     | 06-PIU-138-1   | 138             | 34.5            | 30               | 2.93   | 16.70 | 3.00 | 17.62 | 2.95                    | 17.29 | 3.01 | 18.07 |
| Golfo Norte  | Reynosa               | 06-NEO-115   | NEOVAL                  | 06-NEO-115-3   | 115             | 34.5            | 30               | 2.93   | 16.68 | 3.03 | 17.81 | 2.94                    | 17.48 | 3.04 | 18.03 |
| Golfo Norte  | Nuevo Laredo          | 06-NUL-138   | NUOVO LAREDO            | 06-NUL-138-3   | 138             | 34.5            | 30               | 2.92   | 14.76 | 3.02 | 16.06 | 2.96                    | 15.83 | 3.05 | 16.93 |
| Golfo Norte  | Metropolitana Norte   | 06-PPK-115   | PROPARK                 | 06-PPK-115-1   | 115             | 34.5            | 30               | 2.95   | 14.58 | 3.09 | 15.67 | 2.96                    | 14.72 | 3.10 | 15.99 |
| Golfo Norte  | Metropolitana Oriente | 06-HID-115   | HIDALGO                 | 06-HID-115-1   | 115             | 34.5            | 30               | 2.96   | 13.42 | 3.08 | 14.93 | 2.97                    | 13.50 |      |       |



Niveles de corto circuito de media tensión en las RGD,  
correspondientes al año 2020



NOTA: Con base a niveles de corto circuito de la Red Nacional de Transmisión 2020, publicado por el CENACE en Diciembre 2017

| División    | Zona                   | Acronimo       | Subestación          | Banco          | Tensión AT (KV) | Tensión MT (KV) | Capacidad en MVA | Corriente de corto circuito (kA), y relación X/R |       |      |       |                         |       |      |       |
|-------------|------------------------|----------------|----------------------|----------------|-----------------|-----------------|------------------|--|-------|------|-------|-------------------------|-------|------|-------|
|             |                        |                |                      |                |                 |                 |                  | Nivel de CC mínimo 2020                          |       |      |       | Nivel de CC máximo 2020 |       |      |       |
|             |                        |                |                      |                |                 |                 |                  | 3F   | X/R   | 1F   | X/R   | 3F                      | X/R   | 1F   | X/R   |
| Golfo Norte | Sabinas                | 06-MIE-115     | S.E. MINERA          | 06-MIE-115-2   | 115             | 13.8            | 20               | 4.84   | 14.68 | 5.12 | 15.92 | 4.91                    | 15.39 | 5.18 | 16.52 |
| Golfo Norte | Saltillo               | 06-ZPL-115     | ZAPALINAME           | 06-ZPL-115-3   | 115             | 13.8            | 20               | 5.01   | 17.56 | 5.08 | 18.27 | 5.02                    | 17.75 | 5.09 | 18.42 |
| Golfo Norte | Montemorelos           | 06-CAP-115     | MONTMORRELOS         | 06-CAP-115-1   | 115             | 13.8            | 20               | 5.30   | 19.20 | 5.20 | 19.63 | 5.19                    | 19.22 | 5.25 | 19.31 |
| Golfo Norte | Saltillo               | 06-CAP-115     | CAPELLANÍA           | 06-CAP-115-1   | 115             | 13.8            | 20               | 5.07   | 17.57 | 5.19 | 18.28 | 5.11                    | 17.77 | 5.40 | 18.42 |
| Golfo Norte | Sabinas                | 06-NUR-115     | S.E. NUEVA ROSITA    | 06-NUR-115-5   | 115             | 34.5            | 44.8             | 5.22   | 13.13 | 5.82 | 14.40 | 5.46                    | 14.69 | 6.01 | 15.80 |
| Golfo Norte | Reynosa                | 06-RIB-138     | RIO BRAVO            | 06-RIB-138-8   | 138             | 13.8            | 20               | 5.44   | 18.41 | 5.50 | 18.89 | 5.48                    | 19.06 | 5.53 | 19.35 |
| Golfo Norte | Cerrozaco Sabinas      | 06-RIB-138     |                      | 06-RIB-138-2   | 138             | 13.8            | 20               | 5.44   | 18.41 | 5.50 | 18.89 | 5.48                    | 19.06 | 5.53 | 19.35 |
| Golfo Norte | Saltillo               | 06-SAL-115     |                      | 06-SAL-115-2   | 115             | 13.8            | 20               | 5.60   | 19.56 | 5.65 | 19.90 | 5.61                    | 19.66 | 5.66 | 19.14 |
| Golfo Norte | Montemorelos           | 06-LDA-115     | SALTILLO             | 06-LDA-115-1   | 115             | 13.8            | 20               | 4.66   | 7.37  | 5.25 | 8.76  | 5.78                    | 11.38 | 6.14 | 13.02 |
| Golfo Norte | Montemorelos           | 06-LDA-115     | LADRILLERA           | 06-LDA-115-1   | 115             | 13.8            | 20               | 4.66   | 7.37  | 5.25 | 8.76  | 5.78                    | 11.38 | 6.14 | 13.02 |
| Golfo Norte | Metropolitana Norte    | 06-EST-115     | ESTRELLA             | 06-EST-115-2   | 115             | 34.5            | 30               | 5.65   | 14.76 | 5.88 | 16.04 | 5.81                    | 16.12 | 5.99 | 17.15 |
| Golfo Norte | Metropolitana Oriente  | 06-LAF-115     | LA FE                | 06-LAF-115-2   | 115             | 13.8            | 40               | 6.87   | 19.07 | 5.90 | 19.36 | 5.88                    | 19.21 | 5.91 | 19.46 |
| Golfo Norte | Montemorelos           | 06-LSN-115     | LINARES              | 06-LSN-115-2   | 115             | 13.8            | 20               | 5.70   | 14.46 | 6.07 | 15.72 | 5.91                    | 14.16 | 6.23 | 15.51 |
| Golfo Norte | Montemorelos           | 06-VDS-115     | VILLA DE SANTIAGO    | 06-VDS-115-2   | 115             | 13.8            | 20               | 5.81   | 14.48 | 6.07 | 15.80 | 6.18                    | 16.03 | 6.33 | 17.10 |
| Golfo Norte | Montemorelos           | 06-LSN-115     | LINARES              | 06-LSN-115-1   | 115             | 13.8            | 20               | 5.74   | 14.43 | 6.12 | 15.70 | 5.96                    | 14.13 | 6.28 | 15.48 |
| Golfo Norte | Metropolitana Poniente | 06-SDR-115     | SOLIDARIDAD          | 06-SDR-115-2   | 115             | 13.8            | 30               | 5.98   | 18.03 | 6.08 | 18.61 | 5.99                    | 18.14 | 6.08 | 18.69 |
| Golfo Norte | Montemorelos           | 06-ALM-115     | ALLENDE              | 06-ALM-115-1   | 115             | 13.8            | 20               | 5.82   | 11.92 | 5.96 | 13.44 | 6.08                    | 13.20 | 6.38 | 14.70 |
| Golfo Norte | Metropolitana Poniente | 06-MAV-115     | MIRAVALLE            | 06-MAV-115-2   | 115             | 13.8            | 30               | 6.10   | 18.72 | 6.16 | 19.12 | 6.11                    | 18.87 | 6.16 | 19.22 |
| Golfo Norte | Metropolitana Oriente  | 06-NTM-115     | NORTE DOMINGO        | 06-NTM-115-1   | 115             | 13.8            | 20               | 6.84   | 14.82 | 6.88 | 15.28 | 6.85                    | 15.44 | 6.89 | 19.39 |
| Golfo Norte | Piedras Negras         | 06-PNE-138     | PIEDRAS NEGRAS       | 06-PNE-138-1   | 138             | 13.8            | 30               | 6.24   | 16.95 | 6.39 | 17.80 | 6.32                    | 17.97 | 6.45 | 18.57 |
| Golfo Norte | Piedras Negras         | 06-ACD-138     | ACUNA DOS            | 06-ACD-138-2   | 138             | 13.8            | 20               | 6.27   | 16.21 | 6.50 | 17.21 | 6.38                    | 17.32 | 6.58 | 18.07 |
| Golfo Norte | Montemorelos           | 06-VDS-115     | VILLA DE SANTIAGO    | 06-VDS-115-1   | 115             | 13.8            | 20               | 6.06   | 14.31 | 6.35 | 15.65 | 6.47                    | 15.88 | 6.64 | 16.98 |
| Golfo Norte | Nuevo Laredo           | 06-NUL-138     | NUEVO LAREDO         | 06-NUL-138-2   | 138             | 13.8            | 20               | 6.49   | 15.20 | 6.69 | 16.43 | 6.57                    | 16.21 | 6.75 | 17.23 |
| Golfo Norte | Metropolitana Norte    | 06-ANZ-138     | ANZALDUAS            | 06-ANZ-138-2   | 138             | 13.8            | 30               | 6.54   | 18.85 | 6.78 | 19.29 | 6.65                    | 18.42 | 6.89 | 19.39 |
| Golfo Norte | Reynosa                | 06-ANZ-138     | ANZALDUAS            | 06-ANZ-138-1   | 138             | 13.8            | 30               | 6.65   | 18.15 | 6.74 | 18.70 | 6.67                    | 18.38 | 6.76 | 18.87 |
| Golfo Norte | Monclova               | 06-AEO-115     | ACERO                | 06-AEO-115-1   | 115             | 13.8            | 30               | 6.64   | 16.95 | 6.82 | 17.80 | 6.67                    | 17.49 | 6.85 | 18.20 |
| Golfo Norte | Metropolitana Oriente  | 06-CYN-115     | CADEREYTA            | 06-CYN-115-1   | 115             | 13.8            | 20               | 6.65   | 18.24 | 6.77 | 18.76 | 6.68                    | 18.45 | 6.79 | 18.91 |
| Golfo Norte | Nuevo Laredo           | 06-CAM-138     | SUBESTACION CAMARGO  | 06-CAM-138-1   | 138             | 13.8            | 20               | 6.29   | 11.81 | 6.64 | 13.44 | 6.68                    | 14.02 | 6.93 | 15.44 |
| Golfo Norte | Metropolitana Oriente  | 06-PTM-115B1   | PLANETA DOS          | 06-PTM-115B1-1 | 115             | 13.8            | 20               | 6.58   | 14.59 | 6.77 | 15.21 | 6.72                    | 15.17 | 6.89 | 15.75 |
| Golfo Norte | Sabinas                | 06-SAB-115     | S.E. SABINAS         | 06-SAB-115-3   | 115             | 13.8            | 30               | 6.58   | 12.79 | 7.07 | 14.25 | 6.73                    | 13.71 | 7.19 | 15.07 |
| Golfo Norte | Metropolitana Oriente  | 06-FUN-115     | FUNDIDORA            | 06-FUN-115-2   | 115             | 13.8            | 20               | 6.80   | 18.59 | 6.87 | 19.02 | 6.81                    | 18.80 | 6.87 | 19.17 |
| Golfo Norte | Sabinas                | 06-SAB-115     | S.E. SABINAS         | 06-SAB-115-1   | 115             | 13.8            | 30               | 6.67   | 12.73 | 7.18 | 14.18 | 6.83                    | 13.65 | 7.30 | 15.02 |
| Golfo Norte | Metropolitana Norte    | 06-DON-115     | SANTO DOMINGO        | 06-DON-115-1   | 115             | 13.8            | 20               | 6.88   | 18.92 | 6.93 | 19.26 | 6.89                    | 19.09 | 6.93 | 19.37 |
| Golfo Norte | Nuevo Laredo           | 06-SB-138      | SANTO DOMINGO        | 06-SB-138-1    | 138             | 13.8            | 30               | 6.91   | 18.85 | 7.04 | 19.78 | 6.92                    | 18.78 | 7.10 | 19.11 |
| Golfo Norte | Metropolitana Norte    | 06-SSB-115     | SABINO               | 06-SSB-115-2   | 115             | 13.8            | 30               | 6.99   | 18.41 | 6.99 | 18.89 | 6.92                    | 18.57 | 6.99 | 19.01 |
| Golfo Norte | Metropolitana Norte    | 06-SSB-115     | SABINO               | 06-SSB-115-1   | 115             | 13.8            | 30               | 6.92   | 18.41 | 6.99 | 18.89 | 6.93                    | 18.57 | 7.00 | 19.01 |
| Golfo Norte | Metropolitana Oriente  | 06-FUN-115     | FUNDIDORA            | 06-FUN-115-3   | 115             | 13.8            | 20               | 6.84   | 18.57 | 7.00 | 19.01 | 6.95                    | 18.77 | 7.01 | 19.15 |
| Golfo Norte | Piedras Negras         | 06-ACD-138     | ACUNA DOS            | 06-ACD-138-3   | 138             | 13.8            | 33.6             | 6.92   | 15.94 | 7.10 | 16.99 | 6.95                    | 17.11 | 7.20 | 17.91 |
| Golfo Norte | Nuevo Laredo           | 06-RYC-138     | REYNOSA CENTRO       | 06-RYC-138-1   | 138             | 13.8            | 30               | 6.91   | 14.49 | 7.18 | 15.29 | 6.95                    | 15.44 | 7.24 | 16.41 |
| Golfo Norte | Nuevo Laredo           | 06-FIL-138     | FINSA LAREDO         | 06-FIL-138-1   | 138             | 13.8            | 30               | 6.95   | 14.87 | 7.18 | 16.15 | 7.04                    | 15.89 | 7.25 | 16.98 |
| Golfo Norte | Nuevo Laredo           | 06-LAP-138     | LAREDO-PONIENTE      | 06-LAP-138-1   | 138             | 13.8            | 30               | 6.96   | 14.50 | 7.23 | 15.83 | 7.05                    | 15.47 | 7.30 | 16.63 |
| Golfo Norte | Nuevo Laredo           | 06-NUL-138     | NUEVO LAREDO         | 06-NUL-138-5   | 138             | 13.8            | 30               | 6.97   | 14.94 | 7.20 | 16.21 | 7.06                    | 15.98 | 7.26 | 17.05 |
| Golfo Norte | Piedras Negras         | 06-PUL-138     | PUENTE INTERNACIONAL | 06-PUL-138-1   | 138             | 13.8            | 33.6             | 6.99   | 16.31 | 7.21 | 17.30 | 7.11                    | 17.39 | 7.30 | 18.13 |
| Golfo Norte | Metropolitana Norte    | 06-PTS-115B1-3 | PLANETAS             | 06-PTS-115B1-3 | 115             | 13.8            | 20               | 7.15   | 18.95 | 7.17 | 19.78 | 7.12                    | 19.01 | 7.21 | 19.25 |
| Golfo Norte | Matamoros              | 06-CIM-138     | CIMA                 | 06-CIM-138-2   | 138             | 13.8            | 30               | 7.11   | 17.50 | 7.26 | 18.22 | 7.12                    | 17.69 | 7.27 | 18.33 |
| Golfo Norte | Metropolitana Oriente  | 06-SLL-115     | LA SILLA             | 06-SLL-115-1   | 115             | 13.8            | 30               | 7.19   | 16.44 | 7.53 | 17.37 | 7.20                    | 16.54 | 7.54 | 17.45 |
| Golfo Norte | Nuevo Laredo           | 06-NUL-138     | NUEVO LAREDO         | 06-NUL-138-4   | 138             | 13.8            | 30               | 7.11   | 14.86 | 7.35 | 16.15 | 7.20                    | 15.92 | 7.41 | 17.00 |
| Golfo Norte | Nuevo Laredo           | 06-CPR-138     | CAMPESIRE            | 06-CPR-138-2   | 138             | 13.8            | 30               | 7.11   | 15.41 | 7.36 | 16.99 | 7.20                    | 16.51 | 7.42 | 17.45 |
| Golfo Norte | Matamoros              | 06-AZM-138     | AZTLAN PROV          | 06-AZM-138-1   | 138             | 13.8            | 30               | 7.23   | 17.82 | 7.39 | 18.73 | 7.27                    | 18.05 | 7.41 | 18.25 |
| Golfo Norte | Reynosa                | 06-AZN-138     | AZTLAN PROV          | 06-AZN-138-2   | 138             | 13.8            | 20               | 7.19   | 18.07 | 7.29 | 18.64 | 7.21                    | 18.33 | 7.31 | 18.83 |
| Golfo Norte | Monclova               | 06-MON-115     | MONCLOVA             | 06-MON-115-4   | 115             | 13.8            | 30               | 7.19   | 17.81 | 7.36 | 18.45 | 7.23                    | 18.45 | 7.40 | 18.91 |
| Golfo Norte | Matamoros              | 06-CEN-138     | CENTRAL              | 06-CEN-138-1   | 138             | 13.8            | 30               | 7.24   | 17.33 | 7.39 | 18.09 | 7.26                    | 17.50 | 7.40 | 18.22 |
| Golfo Norte | Reynosa                | 06-AIN-138     | AMERICAN INDUSTRIES  | 06-AIN-138-1   | 138             | 13.8            | 30               | 7.25   | 18.02 | 7.36 | 18.61 | 7.28                    | 18.28 | 7.38 | 18.80 |
| Golfo Norte | Metropolitana Oriente  | 06-LTO-138     | LAS TORRES           | 06-LTO-138-1   | 138             | 13.8            | 30               | 7.30   | 16.41 | 7.62 | 17.59 | 7.57                    | 17.61 | 7.83 | 17.42 |
| Golfo Norte | Matamoros              | 06-LTO-138     | LAS TORRES           | 06-LTO-138-1   | 138             | 13.8            | 30               | 7.30   | 17.23 | 7.47 | 18.02 | 7.31                    | 17.38 | 7.48 | 18.13 |
| Golfo Norte | Reynosa                | 06-RYC-138     | REYNOSA CENTRO       | 06-RYC-138-1   | 138             | 13.8            | 30               | 7.29   | 17.23 | 7.44 | 18.02 | 7.31                    | 17.44 | 7.46 | 18.18 |
| Golfo Norte | Metropolitana Poniente | 06-LEO-115     | LEONA                | 06-LEO-115-1   | 115             | 13.8            | 20               | 7.32   | 17.41 | 7.47 | 18.15 | 7.35                    | 17.83 | 7.48 | 18.46 |
| Golfo Norte | Reynosa                | 06-NRE-138     | NORTE                | 06-NRE-138-1   | 138             | 13.8            | 30               | 7.32   | 16.38 | 7.50 | 17.37 | 7.36                    | 16.68 | 7.52 | 17.60 |
| Golfo Norte | Matamoros              | 06-CEN-138     | CENTRAL              | 06-CEN-138-2   | 138             | 13.8            | 30               | 7.36   | 17.29 | 7.51 | 18.02 | 7.37                    | 17.65 | 7.41 | 18.26 |
| Golfo Norte | Matamoros              | 06-CEN-138     | CENTRAL              | 06-CEN-138-2   | 138             | 13.8            | 30               | 7.36   | 17.29 | 7.51 | 18.07 | 7.38                    | 17.47 | 7.53 | 18.20 |
| Golfo Norte | Reynosa                | 06-RIS-138     | RICSA                | 06-RIS-138-1   | 138             | 13.8            | 30               | 7.37   | 16.28 | 7.54 | 17.30 | 7.41                    | 16.61 | 7.57 | 17.56 |
| Golfo Norte | Nuevo Laredo           | 06-OJC-138     | OJO CALIENTE         | 06-OJC-138-2   | 138             | 13.8            | 30               | 7.32   | 14.56 | 7.61 | 15.88 | 7.41                    | 15.57 | 7.68 | 16.71 |
| Golfo Norte | Matamoros              | 06-CIM-138     | CIMA                 | 06-CIM-138-1   | 138             | 13.8            | 30               | 7.41   | 17.41 | 7.58 | 18.15 | 7.43                    | 17.96 | 7.59 | 18.27 |
| Golfo Norte | Matamoros              | 06-RYC-138     | REYNOSA CENTRO       | 06-RYC-138-2   | 138             | 13.8            | 30               | 7.40   | 17.19 | 7.62 | 17.99 | 7.44                    | 17.41 | 7.62 | 18.06 |
| Golfo Norte | Matamoros              | 06-SEN-138     | SENDERO              | 06-SEN-138-1   | 138             | 13.8            | 30               | 7.39   | 16.84 | 7.57 | 17.72 | 7.44                    | 17.61 | 7.60 | 17.98 |
| Golfo Norte | Reynosa                | 06-REV-138     | REYNOSA              | 06-REV-138-2   | 138             | 13.8            | 30               | 7.41   | 18.21 | 7.53 | 18.75 | 7.44                    | 18.47 | 7.54 | 18.93 |
| Golfo Norte | Nuevo Laredo           | 06-LAO-138     | LAGO                 | 06-LAO-138-2   | 138             | 13.8            | 30               | 7.34   | 14.52 | 7.62 | 15.86 | 7.44                    | 15.54 | 7.69 | 16.69 |
| Golfo Norte | Metropolitana Oriente  | 06-FIG-115     | FINSO GUADALUPE      | 06-FIG-115-1   | 115             | 13.8            | 30               | 7.37   | 17.92 | 7.49 | 18.53 | 7.46                    | 18.42 | 7.55 | 18.90 |
| Golfo Norte | Metropolitana Norte    | 06-FAR-115     | FARSA                | 06-FAR-115-1   | 115             | 13.8            | 20               | 7.39   | 17.42 | 7.61 | 18.29 | 7.47                    | 17.89 | 7.62 | 18.46 |
| Golfo Norte | Metropolitana Norte    | 06-FAR-115     | FARSA                | 06-FAR-115-1   | 115             | 13.8            | 20               | 7.48   | 18.32 | 7.57 | 18.82 | 7.49                    | 18.49 | 7.57 | 18.95 |
| Golfo Norte | Metropolitana Norte    | 06-FAR-115     | FARSA                | 06-FAR-115-2   | 115             | 13.8            | 20               | 7.48   | 18.32 | 7.57 | 18.82 | 7.49                    | 18.49 | 7.57 | 18.95 |
| Golfo Norte | Reynosa                | 06-MEX-138     | MEXICO               | 06-MEX-138-1   | 138             | 13.8            | 30               | 7.47   | 17.81 | 7.59 | 18.45 | 7.50                    | 18.08 | 7.61 | 18.65 |
| Golfo Norte | Saltillo               | 06-ALM-115     | ALAMO                | 06-ALM-115-2   | 115             | 13.8            | 30               | 7.50   | 15.63 | 7.69 | 16.79 | 7.51                    | 15.83 | 7.70 | 16.95 |
| Golfo Norte | Matamoros              | 06-AUA-138     | AGUAYAVIT            | 06-AUA-138-1   | 138             | 13.8            | 30               | 7.50   | 16.83 | 7.69 | 17.93 | 7.51                    | 17.04 | 7.61 | 17.84 |
| Golfo Norte | Piedras Negras         | 06-AUA-138     | ACUNA I              | 06-AUA-138-1   | 138             | 13.8            | 30               | 7.41   | 14.93 | 7.75 | 16.17 | 7.54                    | 15.74 | 7.85 | 16.84 |
| Golfo Norte | Piedras Negras         | 06-PNE-138     | PIEDRAS NEGRAS       | 06-PNE-138-2   | 138             | 13.8            | 30               | 7.44   | 16.47 | 7.66 | 17.43 |                         |       |      |       |

Niveles de corto circuito de media tensión en las RGD,  
correspondientes al año 2020



NOTA: Con base a niveles de corto circuito de la Red Nacional de Transmisión 2020, publicado por el CENACE en Diciembre 2017

| División    | Zona                   | Acronimo     | Subestación                | Banco          | Tensión AT (kV) | Tensión MT (kV) | Capacidad en MVA | Corriente de corto circuito (kA), y relación X/R |       |       |       |                         |         |       |       |
|-------------|------------------------|--------------|----------------------------|----------------|-----------------|-----------------|------------------|--|-------|-------|-------|-------------------------|---------|-------|-------|
|             |                        |              |                            |                |                 |                 |                  | Nivel de CC mínimo 2020                          |       |       |       | Nivel de CC máximo 2020 |         |       |       |
|             |                        |              |                            |                |                 |                 |                  | 3F   | X/R   | 1F    | X/R   | 3F                      | X/R     | 1F    | X/R   |
| Golfo Norte | Metropolitana Norte    | 06-NOG-115   | NOGALAR                    | 06-NOG-115-3   | 115             | 13.8            | 30               | 8.02   | 18.64 | 8.08  | 19.06 | 8.03                    | 18.86   | 8.09  | 19.21 |
| Golfo Norte | Metropolitana Norte    | 06-ETZ-115   | ESTANZUELA                 | 06-ETZ-115-1   | 115             | 13.8            | 30               | 7.99   | 18.33 | 8.15  | 18.92 | 8.04                    | 18.99   | 8.18  | 18.87 |
| Golfo Norte | Metropolitana Poniente | 06-THO-115   | TOPO CHICO                 | 06-THO-115-2   | 115             | 13.8            | 30               | 33.6   | 8.08  | 18.39 | 8.20  | 18.87                   | 8.10    | 18.87 | 8.21  |
| Golfo Norte | Metropolitana Norte    | 06-PIE-115   | PARQUE INDUSTRIAL ESCOBEDO | 06-PIE-115-2   | 115             | 13.8            | 30               | 8.08   | 18.36 | 8.19  | 18.86 | 8.09                    | 18.55   | 8.19  | 18.99 |
| Golfo Norte | Monclova               | 06-ATR-115   | ALTIMIRANO                 | 06-ATR-115-1   | 115             | 13.8            | 30               | 8.02   | 15.40 | 8.37  | 16.55 | 8.09                    | 16.02   | 8.43  | 17.05 |
| Golfo Norte | Metropolitana Oriente  | 06-APO-115   | APODACA                    | 06-APO-115-1   | 115             | 13.8            | 30               | 7.87   | 16.40 | 8.09  | 17.38 | 8.09                    | 17.54   | 8.24  | 18.25 |
| Golfo Norte | Metropolitana Poniente | 06-AUS-115   | SAN AGUSTIN                | 06-AUS-115-1   | 115             | 13.8            | 30               | 8.09   | 18.46 | 8.17  | 18.93 | 8.10                    | 18.65   | 8.18  | 19.06 |
| Golfo Norte | Metropolitana Poniente | 06-JOR-115   | SAN JORGE                  | 06-JOR-115-1   | 115             | 13.8            | 30               | 8.39   | 19.27 | 8.51  | 19.83 | 8.17                    | 18.77   | 8.28  | 19.02 |
| Golfo Norte | Metropolitana Poniente | 06-AUS-115   | SAN AGUSTIN                | 06-AUS-115-2   | 115             | 13.8            | 30               | 8.09   | 18.46 | 8.18  | 18.93 | 8.11                    | 18.65   | 8.19  | 19.06 |
| Golfo Norte | Metropolitana Oriente  | 06-JZO-115   | JOSEFA ZOAYZA              | 06-JZO-115-1   | 115             | 13.8            | 30               | 8.04   | 17.20 | 8.21  | 18.00 | 8.12                    | 17.62   | 8.27  | 18.32 |
| Golfo Norte | Metropolitana Norte    | 06-PIE-115   | PARQUE INDUSTRIAL ESCOBEDO | 06-PIE-115-1   | 115             | 13.8            | 30               | 8.12   | 18.36 | 8.23  | 18.85 | 8.13                    | 18.54   | 8.24  | 18.98 |
| Golfo Norte | Metropolitana Oriente  | 06-PLT-115   | PROLEC                     | 06-PLT-115-2   | 115             | 13.8            | 30               | 33.6   | 8.12  | 18.18 | 8.23  | 18.73                   | 8.13    | 18.44 | 8.24  |
| Golfo Norte | Metropolitana Oriente  | 06-LOL-115   | LOMA LARGA                 | 06-LOL-115-2   | 115             | 13.8            | 30               | 8.13   | 18.01 | 8.24  | 18.60 | 8.15                    | 18.20   | 8.25  | 18.74 |
| Golfo Norte | Metropolitana Poniente | 06-VOT-115   | VALLE ORIENTE              | 06-VOT-115-2   | 115             | 13.8            | 30               | 8.15   | 18.88 | 8.21  | 19.22 | 8.16                    | 19.07   | 8.22  | 19.36 |
| Golfo Norte | Metropolitana Norte    | 06-DON-115   | SANTO DOMINGO              | 06-DON-115-5   | 115             | 13.8            | 30               | 8.15   | 18.74 | 8.22  | 19.13 | 8.16                    | 18.94   | 8.22  | 19.26 |
| Golfo Norte | Metropolitana Oriente  | 06-FIG-115   | FINSA GUADALUPE            | 06-FIG-115-2   | 115             | 13.8            | 30               | 8.07   | 17.74 | 8.21  | 18.41 | 8.17                    | 18.28   | 8.28  | 18.80 |
| Golfo Norte | Metropolitana Poniente | 06-JOR-115   | SAN JORGE                  | 06-JOR-115-2   | 115             | 13.8            | 30               | 8.37   | 19.27 | 8.51  | 19.83 | 8.17                    | 18.77   | 8.28  | 19.02 |
| Golfo Norte | Metropolitana Poniente | 06-VOT-115   | VALLE ORIENTE              | 06-VOT-115-1   | 115             | 13.8            | 30               | 8.17   | 18.87 | 8.24  | 19.22 | 8.19                    | 19.07   | 8.25  | 19.36 |
| Golfo Norte | Metropolitana Poniente | 06-VOT-115   | VALLE ORIENTE              | 06-VOT-115-3   | 115             | 13.8            | 30               | 8.17   | 18.87 | 8.24  | 19.22 | 8.19                    | 19.07   | 8.25  | 19.36 |
| Golfo Norte | Metropolitana Poniente | 06-JZO-115   | JOSEFA ZOAYZA              | 06-JZO-115-2   | 115             | 13.8            | 30               | 8.12   | 17.18 | 8.29  | 17.98 | 8.20                    | 17.60   | 8.35  | 18.30 |
| Golfo Norte | Metropolitana Oriente  | 06-VSL-115   | VALLE SOLEADO DEFINITIVO   | 06-VSL-115-2   | 115             | 13.8            | 30               | 33.6   | 8.17  | 17.82 | 8.29  | 18.47                   | 8.21    | 18.07 | 8.32  |
| Golfo Norte | Metropolitana Poniente | 06-GDL-115   | GUADALUPE                  | 06-GDL-115-2   | 115             | 13.8            | 30               | 8.30   | 19.26 | 8.41  | 19.83 | 8.21                    | 18.77   | 8.32  | 19.17 |
| Golfo Norte | Metropolitana Poniente | 06-GDL-115   | GUADALUPE                  | 06-GDL-115-1   | 115             | 13.8            | 30               | 8.22   | 17.91 | 8.33  | 18.53 | 8.23                    | 18.11   | 8.34  | 18.68 |
| Golfo Norte | Monclova               | 06-MON-115   | MONCLOVA                   | 06-MON-115-5   | 115             | 13.8            | 30               | 8.18   | 17.55 | 8.41  | 18.25 | 8.24                    | 18.25   | 8.45  | 18.76 |
| Golfo Norte | Metropolitana Norte    | 06-PTS-115B2 | PUENTES                    | 06-PTS-115B2-2 | 115             | 13.8            | 30               | 8.23   | 18.57 | 8.31  | 19.01 | 8.24                    | 18.79   | 8.32  | 19.16 |
| Golfo Norte | Metropolitana Poniente | 06-CNY-115   | COMTR                      | 06-CNY-115-1   | 115             | 13.8            | 30               | 8.24   | 18.21 | 8.35  | 18.74 | 8.25                    | 18.40   | 8.36  | 18.89 |
| Golfo Norte | Metropolitana Norte    | 06-THO-115   | TOPO CHICO                 | 06-THO-115-1   | 115             | 13.8            | 30               | 8.19   | 18.21 | 8.34  | 18.59 | 8.21                    | 18.40   | 8.36  | 18.89 |
| Golfo Norte | Nuevo Laredo           | 06-LAP-138   | LARDO-PONIENTE             | 06-LAP-138-2   | 138             | 13.8            | 30               | 8.14   | 13.85 | 8.53  | 15.27 | 8.27                    | 14.89   | 8.62  | 16.15 |
| Golfo Norte | Metropolitana Poniente | 06-ETZ-115   | ESTANZUELA                 | 06-ETZ-115-2   | 115             | 13.8            | 30               | 8.23   | 18.28 | 8.40  | 18.79 | 8.28                    | 18.35   | 8.43  | 18.84 |
| Golfo Norte | Metropolitana Norte    | 06-GRS-115   | GIRASOLES                  | 06-GRS-115-1   | 115             | 13.8            | 30               | 8.29   | 18.35 | 8.40  | 18.85 | 8.30                    | 18.53   | 8.40  | 18.98 |
| Golfo Norte | Metropolitana Poniente | 06-CNY-115   | COMTR                      | 06-CNY-115-2   | 115             | 13.8            | 30               | 8.30   | 18.19 | 8.41  | 18.74 | 8.31                    | 18.39   | 8.42  | 18.88 |
| Golfo Norte | Metropolitana Norte    | 06-TEC-115   | TECNOSIDAD                 | 06-TEC-115-2   | 115             | 13.8            | 30               | 8.32   | 18.72 | 8.38  | 19.09 | 8.27                    | 18.44   | 8.39  | 19.22 |
| Golfo Norte | Metropolitana Poniente | 06-TEC-115   | TECNOSIDAD                 | 06-TEC-115-1   | 115             | 13.8            | 30               | 8.32   | 18.89 | 8.38  | 19.24 | 8.33                    | 19.11   | 8.39  | 19.39 |
| Golfo Norte | Metropolitana Poniente | 06-CBO-115   | CUMBRES ORIENTE            | 06-CBO-115-2   | 115             | 13.8            | 30               | 8.33   | 17.91 | 8.53  | 18.52 | 8.34                    | 18.05   | 8.54  | 18.62 |
| Golfo Norte | Nuevo Laredo           | 06-OJC-138   | OJO CALIENTE               | 06-OJC-138-1   | 138             | 13.8            | 30               | 8.23   | 14.08 | 8.59  | 15.47 | 8.35                    | 15.15   | 8.68  | 16.36 |
| Golfo Norte | Metropolitana Oriente  | 06-STZ-115   | SANTA CRUZ                 | 06-STZ-115-1   | 115             | 13.8            | 30               | 8.27   | 18.05 | 8.39  | 18.63 | 8.35                    | 18.49   | 8.45  | 18.95 |
| Golfo Norte | Metropolitana Poniente | 06-PTS-115B1 | PUENTES                    | 06-PTS-115B1-1 | 115             | 13.8            | 30               | 8.27   | 18.05 | 8.41  | 18.77 | 8.35                    | 18.12   | 8.51  | 19.12 |
| Golfo Norte | Reynosa                | 06-REV-138   | REYNOSA                    | 06-REV-138-1   | 138             | 13.8            | 30               | 8.41   | 18.00 | 8.55  | 18.59 | 8.44                    | 18.28   | 8.57  | 18.80 |
| Golfo Norte | Metropolitana Norte    | 06-RIE-115   | RIEL                       | 06-RIE-115-1   | 115             | 13.8            | 30               | 8.46   | 18.25 | 8.55  | 18.77 | 8.47                    | 18.46   | 8.57  | 18.93 |
| Golfo Norte | Metropolitana Norte    | 06-RIE-115   | RIEL                       | 06-RIE-115-2   | 115             | 13.8            | 30               | 8.46   | 18.25 | 8.55  | 18.77 | 8.47                    | 18.46   | 8.57  | 18.93 |
| Golfo Norte | Nuevo Laredo           | 06-CPR-138   | CAMPRESTE                  | 06-CPR-138-1   | 138             | 13.8            | 30               | 8.36   | 14.82 | 8.70  | 16.09 | 8.48                    | 16.01   | 8.79  | 17.06 |
| Golfo Norte | Metropolitana Oriente  | 06-FUN-115   | FUNDIORDA                  | 06-FUN-115-2   | 115             | 13.8            | 30               | 8.48   | 19.15 | 8.58  | 19.83 | 8.39                    | 18.72   | 8.59  | 19.32 |
| Golfo Norte | Metropolitana Poniente | 06-PEM-115   | PEMEX                      | 06-PEM-115-2   | 115             | 13.8            | 30               | 8.48   | 19.95 | 8.54  | 19.27 | 8.51                    | 19.18   | 8.55  | 19.44 |
| Golfo Norte | Metropolitana Oriente  | 06-STZ-115   | SANTA CRUZ                 | 06-STZ-115-2   | 115             | 13.8            | 30               | 8.45   | 18.01 | 8.57  | 18.60 | 8.53                    | 18.46   | 8.63  | 18.93 |
| Golfo Norte | Metropolitana Oriente  | 06-ROQ-115   | SAN ROQUE                  | 06-ROQ-115-3   | 115             | 13.8            | 30               | 8.51   | 17.49 | 8.68  | 18.22 | 8.54                    | 17.76   | 8.70  | 18.41 |
| Golfo Norte | Piedras Negras         | 06-FTE-138   | FUENTE                     | 06-FTE-138-1   | 138             | 13.8            | 30               | 8.37   | 15.96 | 8.66  | 17.02 | 8.56                    | 17.26   | 8.80  | 18.03 |
| Golfo Norte | Metropolitana Norte    | 06-INV-138   | INFINOVIT                  | 06-INV-138-1   | 138             | 13.8            | 30               | 33.6   | 8.59  | 17.85 | 8.73  | 18.66                   | 8.57    | 18.69 |       |
| Golfo Norte | Mamoras                | 06-INV-138   | INFINOVIT                  | 06-INV-138-2   | 138             | 13.8            | 30               | 8.59   | 16.48 | 8.85  | 17.44 | 8.61                    | 17.63   | 8.86  | 17.56 |
| Golfo Norte | Metropolitana Norte    | 06-DON-115   | SANTO DOMINGO              | 06-DON-115-4   | 115             | 13.8            | 30               | 8.59   | 18.68 | 8.67  | 19.08 | 8.61                    | 18.88   | 8.68  | 19.23 |
| Golfo Norte | Reynosa                | 06-NVR-138   | NUOVO PROGRESO             | 06-NVR-138-1   | 138             | 13.8            | 30               | 8.56   | 15.24 | 8.82  | 16.46 | 8.63                    | 15.81   | 8.87  | 16.92 |
| Golfo Norte | Monclova               | 06-XOC-115   | XOCCHIPILLI                | 06-XOC-115-1   | 115             | 13.8            | 30               | 8.56   | 16.07 | 8.89  | 17.10 | 8.64                    | 16.78   | 8.95  | 17.66 |
| Golfo Norte | Monclova               | 06-XOC-115   | XOCCHIPILLI                | 06-XOC-115-2   | 115             | 13.8            | 30               | 8.56   | 16.07 | 8.89  | 17.10 | 8.64                    | 16.78   | 8.95  | 17.66 |
| Golfo Norte | Monclova               | 06-AEO-115   | ACERO                      | 06-AEO-115-2   | 115             | 13.8            | 30               | 8.67   | 16.20 | 8.99  | 17.20 | 8.73                    | 16.84   | 9.03  | 17.70 |
| Golfo Norte | Metropolitana Poniente | 06-CAT-115   | SANTA CATERINA             | 06-CAT-115-2   | 115             | 13.8            | 30               | 8.75   | 16.38 | 9.02  | 17.36 | 8.76                    | 16.54   | 9.03  | 17.48 |
| Golfo Norte | Metropolitana Poniente | 06-LEO-115   | LEONA                      | 06-LEO-115-3   | 115             | 13.8            | 30               | 8.77   | 16.97 | 8.98  | 17.82 | 8.81                    | 17.45   | 9.01  | 18.18 |
| Golfo Norte | Reynosa                | 06-RBP-138   | RIO BRAVO PONIENTE         | 06-RBP-138-1   | 138             | 13.8            | 30               | 8.73   | 16.73 | 8.95  | 17.63 | 8.82                    | 17.48   | 9.01  | 18.21 |
| Golfo Norte | Saltito                | 06-UNI-115   | UNIVERSIDAD                | 06-UNI-115-1   | 115             | 13.8            | 30               | 8.78   | 17.85 | 8.91  | 18.66 | 8.84                    | 18.37   | 9.02  | 18.97 |
| Golfo Norte | Metropolitana Norte    | 06-UNI-115   | UNIVERSIDAD                | 06-UNI-115-3   | 115             | 13.8            | 30               | 8.73   | 17.74 | 9.01  | 18.40 | 8.90                    | 18.16   | 9.03  | 18.71 |
| Golfo Norte | Metropolitana Norte    | 06-CEL-115   | CELULOSA                   | 06-CEL-115-1   | 115             | 13.8            | 30               | 8.80   | 18.27 | 9.01  | 18.79 | 8.92                    | 18.47   | 9.01  | 18.94 |
| Golfo Norte | Reynosa                | 06-MEX-138   | MEXICO                     | 06-MEX-138-2   | 138             | 13.8            | 30               | 8.89   | 17.45 | 9.06  | 18.18 | 8.93                    | 17.75   | 9.08  | 18.41 |
| Golfo Norte | Metropolitana Poniente | 06-LOL-115   | LOMA LARGA                 | 06-LOL-115-3   | 115             | 13.8            | 30               | 8.99   | 17.82 | 9.12  | 18.46 | 9.00                    | 18.03   | 9.13  | 18.62 |
| Golfo Norte | Metropolitana Poniente | 06-ZPL-115   | ZAPALANAME                 | 06-ZPL-115-2   | 115             | 13.8            | 30               | 8.99   | 16.02 | 9.22  | 17.09 | 9.02                    | 16.81   | 9.24  | 17.31 |
| Golfo Norte | Saltito                | 06-SAL-115   | SALTILLO                   | 06-SAL-115-3   | 115             | 13.8            | 30               | 9.01   | 17.79 | 9.14  | 18.44 | 9.03                    | 18.09   | 9.15  | 18.66 |
| Golfo Norte | Metropolitana Norte    | 06-FUG-115   | FELIX U GOMEZ              | 06-FUG-115-1   | 115             | 13.8            | 30               | 9.02   | 18.31 | 9.12  | 18.82 | 9.04                    | 18.53   | 9.13  | 18.98 |
| Golfo Norte | Metropolitana Poniente | 06-GRS-115   | GIRASOLES                  | 06-GRS-115-2   | 115             | 13.8            | 30               | 9.03   | 18.21 | 9.15  | 18.75 | 9.04                    | 18.42   | 9.16  | 18.89 |
| Golfo Norte | Metropolitana Poniente | 06-MOD-115   | MODELOS                    | 06-MOD-115-1   | 115             | 13.8            | 30               | 9.04   | 16.87 | 9.24  | 17.75 | 9.05                    | 17.04   | 9.25  | 17.88 |
| Golfo Norte | Metropolitana Poniente | 06-MOD-115   | MODELOS                    | 06-MOD-115-2   | 115             | 13.8            | 30               | 9.04   | 16.87 | 9.24  | 17.75 | 9.05                    | 17.04   | 9.25  | 17.88 |
| Golfo Norte | Metropolitana Norte    | 06-NIC-115   | SAN NICOLAS                | 06-NIC-115-4   | 115             | 13.8            | 30               | 9.05   | 19.10 | 9.11  | 19.38 | 9.06                    | 19.32</ |       |       |

Niveles de corto circuito de media tensión en las RGD,  
correspondientes al año 2020



NOTA: Con base a niveles de corto circuito de la Red Nacional de Transmisión 2020, publicado por el CENACE en Diciembre 2017

| División | Zona           | Acronimo     | Subestación              | Banco         | Tensión AV (KV) | Tensión MT (KV) | Capacidad en MVA | Corriente de corto circuito (kA), y relación X/R |       |      |       |                         |       |      |       |
|----------|----------------|--------------|--------------------------|---------------|-----------------|-----------------|------------------|--|-------|------|-------|-------------------------|-------|------|-------|
|          |                |              |                          |               |                 |                 |                  | Nivel de CC mínimo 2020                          |       |      |       | Nivel de CC máximo 2020 |       |      |       |
|          |                |              |                          |               |                 |                 |                  | 3F   | X/R   | 1F   | X/R   | 3F                      | X/R   | 1F   | X/R   |
| Jalisco  | Minas          | 03-ETA-115   | ESTANCITA                | 03-ETA-115-1  | 115             | 23              | 20               | 2.80   | 11.37 | 2.99 | 12.99 | 2.83                    | 12.24 | 3.01 | 13.80 |
| Jalisco  | Zapotlan       | 03-SYL-115   | SAYULA                   | 03-SYL-115-1  | 115             | 23              | 20               | 2.96   | 11.81 | 3.00 | 13.46 | 2.86                    | 12.06 | 3.00 | 13.69 |
| Jalisco  | Minas          | 03-AMK-115   | AMECAC                   | 03-AMK-115-1  | 115             | 23              | 20               | 2.98   | 12.04 | 3.08 | 13.92 | 2.92                    | 12.63 | 3.10 | 14.16 |
| Jalisco  | Chapala        | 03-LRE-115   | S.E. LA RESOLANA         | 03-LRE-115-1  | 115             | 23              | 20               | 2.93   | 17.04 | 2.99 | 17.88 | 2.97                    | 17.62 | 2.99 | 18.31 |
| Jalisco  | Zapotlan       | 03-ZTI-115   | ZAPOTITLIC               | 03-ZTI-115-1  | 115             | 23              | 20               | 2.94   | 13.20 | 3.06 | 14.73 | 2.95                    | 13.51 | 3.07 | 15.00 |
| Jalisco  | Vallarta       | 03-PMI-115   | PUNTA DE MITA            | 03-PMI-115-1  | 115             | 13.8            | 9.375            | 2.96   | 13.38 | 3.07 | 14.90 | 2.97                    | 13.96 | 3.08 | 15.40 |
| Jalisco  | Tepec          | 03-AGM-115   | AGUAMILPA                | 03-AGM-115-1  | 115             | 13.8            | 9.375            | 2.94   | 12.30 | 3.09 | 13.90 | 2.98                    | 13.40 | 3.12 | 14.88 |
| Jalisco  | Zapotlan       | 03-ZTI-115   | ZAPOTITLIC               | 03-ZTI-115-2  | 115             | 23              | 20               | 2.99   | 13.13 | 3.11 | 14.66 | 2.99                    | 13.12 | 3.14 | 14.94 |
| Jalisco  | Chapala        | 03-CGM-115   | GUZMAN                   | 03-CGM-115-4  | 115             | 23              | 20               | 3.03   | 15.40 | 3.12 | 16.59 | 3.03                    | 15.84 | 3.12 | 16.94 |
| Jalisco  | Chapala        | 03-CHA-69    | S.E. CHAPALA             | 03-CHA-69-1   | 69              | 23              | 20               | 3.03   | 10.75 | 3.25 | 12.39 | 3.04                    | 10.82 | 3.25 | 12.47 |
| Jalisco  | Zapotlan       | 03-CGM-115   | GUZMAN                   | 03-CGM-115-3  | 115             | 23              | 20               | 3.04   | 15.39 | 3.13 | 16.58 | 3.04                    | 15.83 | 3.14 | 16.93 |
| Jalisco  | Cienega        | 03-BRC-115   | LA BARCA                 | 03-BRC-115-1  | 115             | 23              | 20               | 3.06   | 14.49 | 3.14 | 15.87 | 3.07                    | 14.85 | 3.14 | 16.16 |
| Jalisco  | Altos          | 03-LT-115    | JALOSTOTITLAN            | 03-LT-115-1   | 115             | 23              | 20               | 3.07   | 15.51 | 3.17 | 16.67 | 3.07                    | 15.67 | 3.17 | 16.80 |
| Jalisco  | Minas          | 03-TOA-69    | TEOUILA                  | 03-TOA-69-1   | 69              | 23              | 20               | 2.97   | 10.09 | 3.21 | 11.72 | 3.09                    | 11.75 | 3.30 | 13.33 |
| Jalisco  | Cienega        | 03-ADE-115   | SAN ANDRES               | 03-ADE-115-1  | 115             | 23              | 20               | 3.11   | 15.52 | 3.18 | 16.70 | 3.13                    | 16.14 | 3.19 | 17.19 |
| Jalisco  | Tepec          | 03-SCJ-115   | SERVICIOS EL CAJON       | 03-SCJ-115-1  | 115             | 13.8            | 9.375            | 3.13   | 13.16 | 3.27 | 14.68 | 3.14                    | 13.99 | 3.28 | 14.89 |
| Jalisco  | Minas          | 03-TLA-69    | TALA                     | 03-TLA-69-2   | 69              | 23              | 20               | 2.95   | 9.75  | 3.17 | 11.42 | 3.15                    | 11.39 | 3.32 | 14.85 |
| Jalisco  | Santiago       | 03-PEN-115   | AMERICA                  | 03-PEN-115-1  | 115             | 13.8            | 9.375            | 3.14   | 12.32 | 3.26 | 13.97 | 3.16                    | 12.75 | 3.27 | 14.36 |
| Jalisco  | Vallarta       | 03-FLA-115   | FLAMINGOS                | 03-FLA-115-2  | 115             | 13.8            | 20               | 3.18   | 14.98 | 3.26 | 16.27 | 3.20                    | 15.76 | 3.27 | 16.89 |
| Jalisco  | Minas          | 03-TLA-69    | TALA                     | 03-TLA-69-1   | 69              | 23              | 20               | 3.01   | 9.65  | 3.24 | 11.31 | 3.21                    | 13.30 | 3.39 | 14.76 |
| Jalisco  | Chapala        | 03-CTA-69    | S.E. CATARINA            | 03-CTA-69-1   | 69              | 23              | 20               | 3.25   | 7.27  | 3.53 | 8.34  | 3.26                    | 7.47  | 3.53 | 9.05  |
| Jalisco  | Altos          | 03-CUV-115   | LA CUEVA                 | 03-CUV-115-1  | 115             | 13.8            | 9.375            | 3.27   | 15.38 | 3.36 | 16.98 | 3.27                    | 15.51 | 3.36 | 16.69 |
| Jalisco  | Chapala        | 03-PTD-69    | S.E. PUENTE GRANDE DOS   | 03-PTD-69-2   | 69              | 23              | 20               | 3.30   | 10.65 | 3.45 | 12.25 | 3.31                    | 10.17 | 3.46 | 12.69 |
| Jalisco  | Minas          | 03-LVT-69    | LA VENTA                 | 03-LVT-69-1   | 69              | 23              | 20               | 3.37   | 14.13 | 3.51 | 15.52 | 3.40                    | 14.97 | 3.53 | 16.22 |
| Jalisco  | Altos          | 03-CIA-115   | CAPILLA                  | 03-CIA-115-1  | 115             | 23              | 30               | 3.43   | 7.33  | 3.83 | 8.76  | 3.44                    | 7.44  | 3.83 | 8.88  |
| Jalisco  | Chapala        | 03-SCU-69    | S.E. SANTA CRUZ          | 03-SCU-69-2   | 69              | 23              | 20               | 3.48   | 15.09 | 3.57 | 16.35 | 3.49                    | 15.55 | 3.58 | 16.72 |
| Jalisco  | Altos          | 03-LT-115    | JALOSTOTITLAN            | 03-LT-115-2   | 115             | 13.8            | 9.375            | 3.52   | 16.68 | 3.60 | 17.60 | 3.52                    | 16.81 | 3.60 | 17.70 |
| Jalisco  | Santiago       | 03-ABJ-115   | ABAJOS                   | 03-ABJ-115-1  | 115             | 23              | 20               | 3.50   | 8.21  | 3.65 | 9.40  | 3.52                    | 8.30  | 3.65 | 9.55  |
| Jalisco  | Altos          | 03-MIG-115   | SAN MIGUEL               | 03-MIG-115-2  | 115             | 13.8            | 9.375            | 3.69   | 14.35 | 3.84 | 15.70 | 3.69                    | 14.37 | 3.84 | 15.72 |
| Jalisco  | Chapala        | 03-SAJ-69    | S.E. SAN JORGE           | 03-SAJ-69-3   | 69              | 23              | 20               | 3.66   | 11.74 | 3.85 | 13.38 | 3.77                    | 13.47 | 3.93 | 14.95 |
| Jalisco  | Minas          | 03-SRO-69    | SANTA ROSA               | 03-SRO-69-7   | 69              | 13.8            | 9.375            | 3.76   | 11.98 | 3.95 | 13.62 | 3.95                    | 15.94 | 4.09 | 17.01 |
| Jalisco  | Tepec          | 03-CMP-115   | COMPOSTELA               | 03-CMP-115-1  | 115             | 13.8            | 9.375            | 3.95   | 18.29 | 4.00 | 18.80 | 3.97                    | 18.81 | 4.01 | 19.17 |
| Jalisco  | Zapotlan       | 03-ZOP-69    | ZOQUIPAN                 | 03-ZOP-69-2   | 69              | 23              | 20               | 4.00   | 12.15 | 4.28 | 14.06 | 4.00                    | 12.15 | 4.28 | 14.06 |
| Jalisco  | Sector Hidalgo | 03-ZOP-69    | ZOQUIPAN                 | 03-ZOP-69-1   | 69              | 23              | 40               | 4.04   | 14.85 | 4.16 | 16.15 | 4.05                    | 15.57 | 4.18 | 16.72 |
| Jalisco  | Altos          | 03-TPT-115   | TEPATITLAN               | 03-TPT-115-1  | 115             | 23              | 30               | 4.11   | 10.31 | 4.36 | 12.02 | 4.12                    | 10.57 | 4.36 | 12.28 |
| Jalisco  | Vallarta       | 03-VRS-115   | LAS VARAS                | 03-VRS-115-1  | 115             | 13.8            | 12.5             | 4.11   | 8.84  | 4.37 | 10.57 | 4.14                    | 9.14  | 4.39 | 10.88 |
| Jalisco  | Altos          | 03-TPT-115   | TEPATITLAN               | 03-TPT-115-2  | 115             | 23              | 30               | 4.30   | 10.08 | 4.57 | 11.79 | 4.31                    | 10.35 | 4.57 | 12.05 |
| Jalisco  | Cienega        | 03-TTO-115   | TENTILAN                 | 03-TTO-115-10 | 115             | 23              | 30               | 4.30   | 10.65 | 4.58 | 12.38 | 4.32                    | 11.00 | 4.59 | 12.68 |
| Jalisco  | Chapala        | 03-CLJ-115   | CENTRO LOGISTICO JALISCO | 03-CLJ-115-1  | 115             | 23              | 30               | 4.33   | 13.41 | 4.53 | 14.89 | 4.34                    | 13.90 | 4.54 | 15.31 |
| Jalisco  | Cienega        | 03-PNC-115   | PONCILAN                 | 03-PNC-115-1  | 115             | 23              | 30               | 4.26   | 10.59 | 4.54 | 12.26 | 4.38                    | 11.71 | 4.63 | 13.34 |
| Jalisco  | Minas          | 03-SLY-115   | SERVICIOS LA YESCA       | 03-SLY-115-1  | 115             | 13.8            | 20               | 4.34   | 9.91  | 4.72 | 11.51 | 4.38                    | 10.38 | 4.74 | 11.98 |
| Jalisco  | Chapala        | 03-CLA-115   | S.E. COCCULA             | 03-CLA-115-1  | 115             | 23              | 30               | 4.36   | 12.47 | 4.59 | 14.05 | 4.39                    | 13.38 | 4.61 | 14.85 |
| Jalisco  | Chapala        | 03-SLY-115   | SERVICIOS LA YESCA       | 03-SLY-115-2  | 115             | 13.8            | 20               | 4.37   | 14.57 | 4.77 | 16.26 | 4.40                    | 15.02 | 4.80 | 16.92 |
| Jalisco  | Vallarta       | 03-GYS-115   | GUAYABITOS               | 03-GYS-115-2  | 115             | 13.8            | 20               | 4.55   | 8.64  | 4.86 | 10.34 | 4.59                    | 8.97  | 4.88 | 10.68 |
| Jalisco  | Vallarta       | 03-DST-115   | DESTILADERAS             | 03-DST-115-2  | 115             | 13.8            | 20               | 4.55   | 11.92 | 4.77 | 13.57 | 4.59                    | 12.64 | 4.80 | 14.22 |
| Jalisco  | Altos          | 03-JDL-115   | SAN JUAN                 | 03-JDL-115-2  | 115             | 13.8            | 20               | 4.68   | 15.15 | 4.82 | 16.40 | 4.68                    | 15.33 | 4.82 | 16.53 |
| Jalisco  | Sector Hidalgo | 03-ADS-69    | ANDARES                  | 03-ADS-69-1   | 69              | 23              | 30               | 4.71   | 13.89 | 4.89 | 15.33 | 4.72                    | 14.45 | 4.90 | 15.80 |
| Jalisco  | Cienega        | 03-CZO-115-2 | ANDARES                  | 03-CZO-115-2  | 115             | 23              | 20               | 4.73   | 12.61 | 4.95 | 14.15 | 4.74                    | 13.43 | 4.99 | 15.63 |
| Jalisco  | Sector Hidalgo | 03-ADS-69    | ANDARES                  | 03-ADS-69-1   | 69              | 23              | 30               | 4.76   | 13.85 | 4.94 | 15.29 | 4.78                    | 14.40 | 4.95 | 15.76 |
| Jalisco  | Tepec          | 03-DES-115   | TEPEC UNO                | 03-DES-115-1  | 115             | 13.8            | 20               | 4.77   | 12.16 | 5.00 | 13.80 | 4.80                    | 12.48 | 5.02 | 14.09 |
| Jalisco  | Tepec          | 03-DES-115   | TEPEC UNO                | 03-DES-115-2  | 115             | 13.8            | 20               | 4.78   | 12.15 | 5.01 | 13.79 | 4.81                    | 12.47 | 5.03 | 14.08 |
| Jalisco  | Tepec          | 03-TBK-110   | TABACALERA               | 03-TBK-110-1  | 110             | 13.8            | 20               | 4.89   | 15.32 | 5.02 | 16.53 | 4.93                    | 16.31 | 5.05 | 17.31 |
| Jalisco  | Santiago       | 03-PEN-115   | AMERICA                  | 03-PEN-115-2  | 115             | 23              | 20               | 4.89   | 10.15 | 5.10 | 11.80 | 5.12                    | 11.92 | 5.25 | 12.29 |
| Jalisco  | Sector Hidalgo | 03-GUN-230   | GUADALAJARA NORTE        | 03-GUN-230-1  | 230             | 23              | 60               | 5.00   | 17.28 | 5.07 | 18.07 | 5.05                    | 18.65 | 5.11 | 19.06 |
| Jalisco  | Tepec          | 03-TBK-110   | TABACALERA               | 03-TBK-110-2  | 110             | 13.8            | 20               | 5.03   | 15.22 | 5.17 | 16.45 | 5.07                    | 16.22 | 5.20 | 17.25 |
| Jalisco  | Tepec          | 03-TID-110   | TEPIC INDUSTRIAL         | 03-TID-110-2  | 110             | 13.8            | 20               | 5.07   | 15.60 | 5.20 | 16.76 | 5.12                    | 16.65 | 5.23 | 17.58 |
| Jalisco  | Tepec          | 03-XLS-115   | XALISCO                  | 03-XLS-115-2  | 115             | 13.8            | 20               | 5.11   | 15.51 | 5.26 | 16.68 | 5.16                    | 16.58 | 5.29 | 17.52 |
| Jalisco  | Tepec          | 03-BRI-115   | LAS BRISAS               | 03-BRI-115-2  | 115             | 13.8            | 20               | 5.12   | 15.80 | 5.26 | 16.97 | 5.17                    | 16.86 | 5.31 | 17.78 |
| Jalisco  | Tepec          | 03-BRI-115   | LAS BRISAS               | 03-BRI-115-1  | 115             | 13.8            | 20               | 5.15   | 15.77 | 5.28 | 16.90 | 5.19                    | 16.89 | 5.32 | 17.76 |
| Jalisco  | Chapala        | 03-SAJ-69    | S.E. SAN JORGE           | 03-SAJ-69-1   | 69              | 23              | 25               | 4.99   | 10.20 | 5.35 | 11.85 | 5.20                    | 11.98 | 5.51 | 13.57 |
| Jalisco  | Vallarta       | 03-TMI-115   | TAMARINDOS               | 03-TMI-115-1  | 115             | 13.8            | 20               | 5.20   | 13.48 | 5.38 | 14.99 | 5.25                    | 14.54 | 5.42 | 15.89 |
| Jalisco  | Santiago       | 03-SNI-115   | SANTIAGO                 | 03-SNI-115-1  | 115             | 13.8            | 20               | 5.35   | 10.83 | 5.64 | 12.54 | 5.40                    | 11.38 | 5.68 | 13.07 |
| Jalisco  | Vallarta       | 03-FLA-115   | FLAMINGOS                | 03-FLA-115-1  | 115             | 13.8            | 20               | 5.35   | 12.65 | 5.76 | 14.57 | 5.37                    | 13.62 | 5.70 | 15.10 |
| Jalisco  | Vallarta       | 03-NGT-115   | NOGALITO                 | 03-NGT-115-1  | 115             | 13.8            | 20               | 5.53   | 10.90 | 5.84 | 12.60 | 5.58                    | 11.67 | 5.88 | 13.32 |
| Jalisco  | Santiago       | 03-SNI-115   | SANTIAGO                 | 03-SNI-115-2  | 115             | 13.8            | 20               | 5.61   | 10.60 | 5.93 | 12.31 | 5.66                    | 11.15 | 5.97 | 12.84 |
| Jalisco  | Tepec          | 03-TID-110   | TEPIC INDUSTRIAL         | 03-TID-110-1  | 110             | 13.8            | 20               | 5.72   | 15.18 | 5.88 | 16.42 | 5.77                    | 16.31 | 5.92 | 17.31 |
| Jalisco  | Sector Hidalgo | 03-HUN-69    | HUENTITAN NUEVA          | 03-HUN-69-1   | 69              | 23              | 40               | 5.70   | 10.93 | 6.06 | 12.60 | 5.78                    | 11.76 | 6.12 | 13.39 |
| Jalisco  | Sector Hidalgo | 03-EXP-69    | EXPERIENCIA              | 03-EXP-69-1   | 69              | 23              | 40               | 5.70   | 10.93 | 6.06 | 12.60 | 5.78                    | 11.76 | 6.12 | 13.39 |
| Jalisco  | Sector Hidalgo | 03-EXP-69    | EXPERIENCIA              | 03-EXP-69-2   | 69              | 23              | 40               | 5.79   | 10.89 | 6.28 | 12.46 | 5.83                    | 11.43 | 6.30 | 12.98 |
| Jalisco  | Sector Hidalgo | 03-          |                          |               |                 |                 |                  |  |       |      |       |                         |       |      |       |

Niveles de corto circuito de media tensión en las GRD,  
correspondientes al año 2020



NOTA: Con base a niveles de corto circuito de la Red Nacional de Transmisión 2020, publicado por el CENACE en Diciembre 2017

| División | Zona       | Acronimo   | Subestación           | Banco        | Tensión AT (KV) | Tensión MT (KV) | Capacidad en MVA | Corriente de corto circuito (kA), y relación X/R |       |      |       |                         |       |      |       |
|----------|------------|------------|-----------------------|--------------|-----------------|-----------------|------------------|--|-------|------|-------|-------------------------|-------|------|-------|
|          |            |            |                       |              |                 |                 |                  | Nivel de CC mínimo 2020                          |       |      |       | Nivel de CC máximo 2020 |       |      |       |
|          |            |            |                       |              |                 |                 |                  | 3F   | X/R   | 1F   | X/R   | 3F                      | X/R   | 1F   | X/R   |
| Noroeste | Hermosillo | 04-ETO-115 | ESTACION TORRES       | 04-ETO-115-1 | 115             | 34.5            | 7.5              | 1.09   | 13.36 | 1.12 | 14.91 | 1.10                    | 13.66 | 1.13 | 15.17 |
| Noroeste | Hermosillo | 04-URE-115 | PIAXTLA               | 04-URE-115-3 | 115             | 34.5            | 9.375            | 1.34   | 10.19 | 1.44 | 11.85 | 1.35                    | 10.43 | 1.45 | 12.09 |
| Noroeste | Culiacan   | 04-CSA-115 | COSTA RICA            | 04-CSA-115-1 | 115             | 34.5            | 20               | 1.78   | 10.41 | 1.90 | 12.08 | 1.79                    | 10.66 | 1.91 | 12.33 |
| Noroeste | Mazatlan   | 04-PXT-115 | PIAXTLA               | 04-PXT-115-1 | 115             | 34.5            | 20               | 1.67   | 8.85  | 1.77 | 9.36  | 1.62                    | 8.10  | 1.78 | 9.62  |
| Noroeste | Los Mochis | 04-JAE-115 | JOSE ANGEL ESPINOZA   | 04-JAE-115-1 | 115             | 34.5            | 12.5             | 1.44   | 6.21  | 1.63 | 7.49  | 1.64                    | 10.07 | 1.79 | 11.64 |
| Noroeste | Hermosillo | 04-URE-115 | URES                  | 04-URE-115-1 | 115             | 34.5            | 20               | 1.65   | 9.15  | 1.80 | 10.74 | 1.67                    | 9.39  | 1.81 | 10.99 |
| Noroeste | Mazatlan   | 04-PXT-115 | PIAXTLA               | 04-PXT-115-2 | 115             | 34.5            | 20               | 1.77   | 7.84  | 1.85 | 9.12  | 1.69                    | 7.88  | 1.87 | 9.38  |
| Noroeste | Navjoa     | 04-VLU-115 | VILLA JUAREZ          | 04-VLU-115-1 | 115             | 34.5            | 20               | 1.83   | 10.56 | 1.98 | 12.17 | 1.85                    | 11.06 | 2.00 | 12.65 |
| Noroeste | Hermosillo | 04-OAS-115 | OASIS                 | 04-OAS-115-1 | 115             | 34.5            | 20               | 1.78   | 8.56  | 1.91 | 10.24 | 1.80                    | 8.92  | 1.93 | 10.62 |
| Noroeste | Culiacan   | 04-SLA-115 | SANALONA              | 04-SLA-115-3 | 115             | 34.5            | 12.5             | 1.77   | 7.30  | 1.90 | 8.94  | 1.80                    | 7.96  | 1.92 | 9.66  |
| Noroeste | Los Mochis | 04-HRS-115 | HORNILLAS             | 04-HRS-115-2 | 115             | 34.5            | 20               | 1.62   | 6.91  | 1.79 | 8.35  | 1.81                    | 11.44 | 1.94 | 13.04 |
| Noroeste | Mazatlan   | 04-SVU-115 | VILLA UNION           | 04-SVU-115-2 | 115             | 34.5            | 12.5             | 1.81   | 16.32 | 1.84 | 17.34 | 1.83                    | 17.38 | 1.85 | 18.14 |
| Noroeste | Navjoa     | 04-AMP-115 | AGUA PRIETA           | 04-AMP-115-1 | 115             | 34.5            | 20               | 1.91   | 13.78 | 1.99 | 15.20 | 1.92                    | 14.29 | 2.00 | 15.65 |
| Noroeste | Guasave    | 04-BMO-115 | S.E. BAMOA            | 04-BMO-115-1 | 115             | 34.5            | 20               | 1.85   | 8.79  | 1.98 | 10.48 | 1.86                    | 8.98  | 1.99 | 10.68 |
| Noroeste | Los Mochis | 04-CRZ-115 | CARRIZO               | 04-CRZ-115-1 | 115             | 34.5            | 20               | 1.86   | 9.31  | 1.99 | 10.99 | 1.90                    | 10.12 | 2.03 | 11.81 |
| Noroeste | Navjoa     | 04-AAM-115 | ALAMOS                | 04-AAM-115-1 | 115             | 34.5            | 20               | 1.87   | 4.26  | 2.10 | 5.36  | 1.90                    | 4.45  | 2.12 | 5.59  |
| Noroeste | Navjoa     | 04-VMY-115 | VALLE DEL MAYO        | 04-VMY-115-1 | 115             | 34.5            | 20               | 1.90   | 13.86 | 1.98 | 15.29 | 1.92                    | 14.36 | 2.00 | 15.72 |
| Noroeste | Navjoa     | 04-CPA-115 | COSTA RICA            | 04-CPA-115-1 | 115             | 34.5            | 20               | 2.04   | 12.87 | 2.14 | 13.67 | 2.06                    | 13.20 | 2.15 | 14.01 |
| Noroeste | Culiacan   | 04-SPE-115 | SUBESTACION PERICOS   | 04-SPE-115-1 | 115             | 34.5            | 20               | 1.94   | 12.28 | 2.03 | 13.90 | 1.95                    | 12.64 | 2.04 | 14.24 |
| Noroeste | Los Mochis | 04-RCO-115 | RUIZ CORTINES         | 04-RCO-115-1 | 115             | 34.5            | 20               | 1.97   | 13.47 | 2.09 | 14.90 | 1.98                    | 13.76 | 2.09 | 15.15 |
| Noroeste | Guasave    | 04-GSV-115 | GUASAVE               | 04-GSV-115-4 | 115             | 34.5            | 20               | 1.97   | 14.22 | 2.04 | 16.92 | 1.98                    | 14.70 | 2.05 | 16.02 |
| Noroeste | Nogales    | 04-AGI-115 | AGUA PRIETA           | 04-AGI-115-1 | 115             | 34.5            | 20               | 1.99   | 14.66 | 2.08 | 16.96 | 2.01                    | 15.30 | 2.09 | 16.48 |
| Noroeste | Culiacan   | 04-ACU-115 | SUBESTACION PERICOS   | 04-ACU-115-1 | 115             | 34.5            | 20               | 2.02   | 12.53 | 2.14 | 14.17 | 2.03                    | 13.40 | 2.11 | 14.84 |
| Noroeste | Culiacan   | 04-CUI-115 | CULIACAN UNO          | 04-CUI-115-1 | 115             | 34.5            | 20               | 2.07   | 17.18 | 2.10 | 17.99 | 2.09                    | 18.34 | 2.11 | 18.84 |
| Noroeste | Hermosillo | 04-NVL-115 | NOVILLO               | 04-NVL-115-1 | 115             | 34.5            | 20               | 1.86   | 10.86 | 2.05 | 12.36 | 2.16                    | 17.16 | 2.29 | 17.91 |
| Noroeste | Nogales    | 04-AGI-115 | AGUA PRIETA           | 04-AGI-115-2 | 115             | 34.5            | 20               | 2.16   | 14.35 | 2.26 | 15.68 | 2.17                    | 15.00 | 2.27 | 16.23 |
| Noroeste | Culiacan   | 04-EDR-115 | SUBESTACION EL DORADO | 04-EDR-115-1 | 115             | 34.5            | 30               | 2.16   | 7.02  | 2.45 | 8.34  | 2.18                    | 7.18  | 2.47 | 8.53  |
| Noroeste | Navjoa     | 04-SCN-115 | S.E. CANANEA          | 04-SCN-115-1 | 115             | 34.5            | 20               | 2.04   | 12.57 | 2.17 | 13.97 | 2.07                    | 12.28 | 2.18 | 13.77 |
| Noroeste | Navjoa     | 04-FUC-115 | FUNDICION             | 04-FUC-115-1 | 115             | 34.5            | 20               | 2.25   | 11.62 | 2.34 | 13.94 | 2.27                    | 12.03 | 2.35 | 13.72 |
| Noroeste | Nogales    | 04-SCN-115 | S.E. CANANEA          | 04-SCN-115-2 | 115             | 34.5            | 20               | 2.27   | 16.46 | 2.34 | 17.42 | 2.28                    | 17.70 | 2.35 | 18.36 |
| Noroeste | Navjoa     | 04-NVJ-115 | NAVOJOA               | 04-NVJ-115-1 | 115             | 34.5            | 20               | 2.29   | 16.40 | 2.45 | 17.39 | 2.41                    | 17.29 | 2.47 | 18.06 |
| Noroeste | Culiacan   | 04-GLA-115 | GUILA                 | 04-GLA-115-1 | 115             | 34.5            | 30               | 2.42   | 8.45  | 2.67 | 10.00 | 2.45                    | 8.73  | 2.68 | 10.29 |
| Noroeste | Nogales    | 04-SCN-115 | S.E. CANANEA          | 04-SCN-115-2 | 115             | 34.5            | 20               | 2.62   | 27.72 | 2.72 | 30.61 | 2.62                    | 27.74 | 2.72 | 30.61 |
| Noroeste | Culiacan   | 04-NTO-115 | NOVILLO               | 04-NTO-115-2 | 115             | 34.5            | 30               | 2.63   | 11.92 | 2.80 | 13.51 | 2.66                    | 12.46 | 2.82 | 14.01 |
| Noroeste | Guasave    | 04-LVS-115 | LEVY SOLANO           | 04-LVS-115-1 | 115             | 34.5            | 30               | 2.71   | 12.81 | 2.88 | 14.31 | 2.74                    | 13.23 | 2.90 | 14.69 |
| Noroeste | Nogales    | 04-LDO-115 | LUIS DONALDO COLOSIO  | 04-LDO-115-1 | 115             | 34.5            | 30               | 2.68   | 10.07 | 2.86 | 11.76 | 2.76                    | 11.92 | 2.92 | 13.53 |
| Noroeste | Navjoa     | 04-NVL-115 | NAVOJOA INDUSTRIAL    | 04-NVL-115-1 | 115             | 34.5            | 30               | 2.73   | 12.35 | 2.91 | 13.89 | 2.77                    | 13.07 | 2.94 | 14.55 |
| Noroeste | Culiacan   | 04-ACU-115 | SUBESTACION PERICOS   | 04-ACU-115-2 | 115             | 34.5            | 30               | 2.81   | 12.87 | 2.99 | 14.82 | 2.82                    | 13.23 | 3.01 | 14.68 |
| Noroeste | Los Mochis | 04-AHO-115 | AHOME                 | 04-AHO-115-1 | 115             | 34.5            | 30               | 2.85   | 14.07 | 3.02 | 14.01 | 2.86                    | 12.64 | 3.04 | 14.17 |
| Noroeste | Culiacan   | 04-CSA-115 | COSTA RICA            | 04-CSA-115-1 | 115             | 34.5            | 30               | 2.90   | 13.24 | 3.03 | 14.74 | 2.93                    | 14.08 | 3.06 | 15.47 |
| Noroeste | Guasave    | 04-GSV-115 | GUASAVE               | 04-GSV-115-3 | 115             | 34.5            | 30               | 2.90   | 12.51 | 3.06 | 14.08 | 2.94                    | 13.05 | 3.08 | 14.56 |
| Noroeste | Los Mochis | 04-LMB-115 | LOS MOCHIS DOS        | 04-LMB-115-1 | 115             | 34.5            | 30               | 3.06   | 16.88 | 3.15 | 17.74 | 3.08                    | 17.40 | 3.16 | 18.14 |
| Noroeste | Los Mochis | 04-JUR-115 | JUAN JOSÉ RIOS        | 04-JUR-115-1 | 115             | 34.5            | 30               | 3.14   | 15.16 | 3.23 | 16.37 | 3.14                    | 15.82 | 3.25 | 16.73 |
| Noroeste | Nogales    | 04-TA-115  | SANTA ANA             | 04-TA-115-2  | 115             | 34.5            | 40               | 3.14   | 12.70 | 3.27 | 14.29 | 3.25                    | 16.34 | 3.36 | 17.32 |
| Noroeste | Culiacan   | 04-CMR-115 | COMEDERO              | 04-CMR-115-3 | 115             | 34.5            | 20               | 3.01   | 11.11 | 3.29 | 12.64 | 3.30                    | 15.29 | 3.51 | 16.40 |
| Noroeste | Guasave    | 04-BRT-115 | BACURATO              | 04-BRT-115-1 | 115             | 34.5            | 22.4             | 2.99   | 11.79 | 3.27 | 13.26 | 3.31                    | 16.36 | 3.52 | 17.27 |
| Noroeste | Culiacan   | 04-NTO-115 | NOVILLO               | 04-NTO-115-1 | 115             | 34.5            | 40               | 3.33   | 10.76 | 3.60 | 12.35 | 3.37                    | 11.31 | 3.64 | 12.89 |
| Noroeste | Guasave    | 04-GML-115 | GUAMUJIL              | 04-GML-115-1 | 115             | 34.5            | 30               | 3.37   | 14.50 | 3.52 | 16.82 | 3.43                    | 15.78 | 3.57 | 16.87 |
| Noroeste | Hermosillo | 04-SBI-115 | SUBESTACION CINCO     | 04-SBI-115-1 | 115             | 33.8            | 10               | 3.43   | 13.54 | 3.58 | 15.02 | 3.45                    | 14.04 | 3.59 | 15.44 |
| Noroeste | Hermosillo | 04-SNC-115 | SAN NICOLAS           | 04-SNC-115-1 | 115             | 33.8            | 12.5             | 3.52   | 7.65  | 3.81 | 9.26  | 3.55                    | 7.79  | 3.83 | 9.41  |
| Noroeste | Hermosillo | 04-SBU-115 | SUBESTACION UNO       | 04-SBU-115-1 | 115             | 33.8            | 12.5             | 3.67   | 9.58  | 3.90 | 11.31 | 3.70                    | 9.83  | 3.92 | 11.56 |
| Noroeste | Hermosillo | 04-SBO-115 | SUBESTACION SEIS      | 04-SBO-115-1 | 115             | 33.8            | 12.5             | 3.71   | 10.81 | 3.91 | 12.92 | 3.69                    | 11.69 | 3.93 | 13.32 |
| Noroeste | Hermosillo | 04-SBO-115 | SUBESTACION OCHO      | 04-SBO-115-1 | 115             | 33.8            | 12.5             | 3.82   | 7.73  | 4.17 | 9.29  | 3.85                    | 7.89  | 4.19 | 9.46  |
| Noroeste | Hermosillo | 04-SBC-115 | SUBESTACION CUATRO    | 04-SBC-115-1 | 115             | 33.8            | 12.5             | 3.83   | 10.69 | 4.02 | 12.42 | 3.86                    | 11.03 | 4.04 | 12.75 |
| Noroeste | Caborca    | 04-ALT-115 | ALTAR                 | 04-ALT-115-1 | 115             | 33.8            | 12.5             | 3.78   | 10.76 | 4.01 | 12.44 | 3.91                    | 12.56 | 4.11 | 14.13 |
| Noroeste | Guaymas    | 04-MLA-115 | MORELOS LA ATRAVESADA | 04-MLA-115-1 | 115             | 33.8            | 12.5             | 4.02   | 13.09 | 4.16 | 14.66 | 4.02                    | 13.18 | 4.16 | 14.74 |
| Noroeste | Hermosillo | 04-MLA-115 | MORELOS LA ATRAVESADA | 04-MLA-115-2 | 115             | 33.8            | 12.5             | 4.02   | 13.09 | 4.16 | 14.66 | 4.02                    | 13.18 | 4.16 | 14.74 |
| Noroeste | Los Mochis | 04-LMU-115 | LOS MOCHIS UNO        | 04-LMU-115-3 | 115             | 34.5            | 40               | 4.16   | 16.68 | 4.27 | 17.59 | 4.19                    | 17.28 | 4.30 | 18.05 |
| Noroeste | Hermosillo | 04-SEL-115 | SELETA                | 04-SEL-115-1 | 115             | 33.8            | 20               | 4.19   | 8.11  | 4.60 | 9.66  | 4.23                    | 8.31  | 4.63 | 9.88  |
| Noroeste | Caborca    | 04-SHO-115 | SAHUARO               | 04-SHO-115-1 | 115             | 33.8            | 12.5             | 3.98   | 8.78  | 4.30 | 10.42 | 4.23                    | 11.42 | 4.49 | 13.06 |
| Noroeste | Los Mochis | 04-LMU-115 | LOS MOCHIS INDUSTRIAL | 04-LMU-115-1 | 115             | 34.5            | 40               | 4.20   | 17.36 | 4.32 | 18.11 | 4.24                    | 18.06 | 4.34 | 18.63 |
| Noroeste | Hermosillo | 04-CUC-115 | CULIACAN SEIS         | 04-CUC-115-1 | 115             | 34.5            | 40               | 4.21   | 11.69 | 4.30 | 13.21 | 4.26                    | 13.80 | 4.37 | 14.52 |
| Noroeste | Hermosillo | 04-CUC-115 | CULIACAN CUATRO       | 04-CUC-115-1 | 115             | 34.5            | 40               | 4.26   | 14.96 | 4.40 | 16.23 | 4.34                    | 16.64 | 4.46 | 17.56 |
| Noroeste | Hermosillo | 04-CRD-115 | CARDONAL              | 04-CRD-115-1 | 115             | 33.8            | 20               | 4.35   | 9.41  | 4.74 | 11.01 | 4.38                    | 9.69  | 4.77 | 11.29 |
| Noroeste | Hermosillo | 04-TST-115 | TASTIOTA              | 04-TST-115-1 | 115             | 33.8            | 20               | 4.38   | 8.52  | 4.76 | 10.13 | 4.42                    | 8.76  | 4.79 | 10.38 |
| Noroeste | Caborca    | 04-ASE-115 | ARROLLO SECO          | 04-ASE-115-1 | 115             | 33.8            | 20               | 4.15   | 8.66  | 4.59 | 10.19 | 4.42                    | 9.00  | 4.80 | 11.90 |
| Noroeste | Los Mochis | 04-NR-115  | NAVOJOA               | 04-NR-115-1  | 115             | 33.8            | 25               | 4.39   | 12.5  | 4.69 | 14.26 | 4.43                    | 13.33 | 4.72 | 13.12 |
| Noroeste | Guaymas    | 04-LMA-115 | LA MISA               | 04-LMA-115-1 | 115             | 33.8            | 20               | 4.71   | 11.23 | 4.95 | 12.93 | 4.72                    | 11.31 | 4.95 | 13.01 |

Niveles de corto circuito de media tensión en las RGD,  
correspondientes al año 2020



NOTA: Con base a niveles de corto circuito de la Red Nacional de Transmisión 2020, publicado por el CENACE en Diciembre 2017

| División | Zona       | Acronimo   | Subestación               | Banco        | Tensión A (kV) | Tensión MT (kV) | Capacidad en MVA | Corriente de corto circuito (kA), y relación X/R |       |       |       |                         |       |       |       |
|----------|------------|------------|---------------------------|--------------|----------------|-----------------|------------------|--|-------|-------|-------|-------------------------|-------|-------|-------|
|          |            |            |                           |              |                |                 |                  | Nivel de CC mínimo 2020                          |       |       |       | Nivel de CC máximo 2020 |       |       |       |
|          |            |            |                           |              |                |                 |                  | 3F   | X/R   | 1F    | X/R   | 3F                      | X/R   | 1F    | X/R   |
| Noroeste | Hermosillo | 04-BGT-115 | BAGOTES                   | 04-BGT-115-1 | 115            | 13.8            | 30               | 7.62   | 14.05 | 7.82  | 15.51 | 7.74                    | 15.17 | 7.90  | 16.43 |
| Noroeste | Hermosillo | 04-PUE-115 | PUEBLITOS                 | 04-PUE-115-1 | 115            | 13.8            | 30               | 7.59   | 16.36 | 7.79  | 17.35 | 7.75                    | 17.70 | 7.90  | 18.37 |
| Noroeste | Los Mochis | 04-LMT-115 | LOS MOCHIS TRES           | 04-LMT-115-1 | 115            | 13.8            | 30               | 7.93   | 16.75 | 7.89  | 17.77 | 7.77                    | 17.46 | 7.92  | 18.19 |
| Noroeste | Mazatlán   | 04-MAE-115 | MAZATLAN AEROPUERTO       | 04-MAE-115-2 | 115            | 13.8            | 30               | 7.63   | 14.12 | 7.83  | 15.56 | 7.77                    | 15.42 | 7.93  | 16.63 |
| Noroeste | Obregon    | 04-CAJ-115 | CAJEME                    | 04-CAJ-115-2 | 115            | 13.8            | 30               | 7.75   | 17.24 | 7.93  | 18.02 | 7.80                    | 17.70 | 7.96  | 18.37 |
| Noroeste | Obregon    | 04-COC-115 | CIUDAD OBREGON CUATRO     | 04-COC-115-2 | 115            | 13.8            | 30               | 7.91   | 17.42 | 7.91  | 18.16 | 7.82                    | 17.98 | 7.96  | 18.58 |
| Noroeste | Culiacán   | 04-ISM-115 | ISLA MUSAULA              | 04-ISM-115-1 | 115            | 13.8            | 30               | 7.70   | 16.06 | 7.88  | 17.12 | 7.82                    | 17.61 | 7.96  | 18.31 |
| Noroeste | Obregon    | 04-TTB-115 | TEHAPATE                  | 04-TTB-115-1 | 115            | 13.8            | 30               | 7.73   | 16.75 | 7.99  | 17.65 | 7.94                    | 17.36 | 8.02  | 18.04 |
| Noroeste | Obregon    | 04-NNR-115 | NAINARI                   | 04-NNR-115-1 | 115            | 13.8            | 30               | 7.82   | 17.46 | 8.00  | 18.19 | 7.87                    | 17.94 | 8.03  | 18.55 |
| Noroeste | Hermosillo | 04-DYN-115 | DYNATECH                  | 04-DYN-115-1 | 115            | 13.8            | 30               | 7.74   | 14.30 | 7.93  | 15.71 | 7.87                    | 15.74 | 8.02  | 16.89 |
| Noroeste | Obregon    | 04-BND-115 | BANDERAS                  | 04-BND-115-1 | 115            | 13.8            | 30               | 7.83   | 16.88 | 8.02  | 17.75 | 7.88                    | 17.39 | 8.06  | 18.14 |
| Noroeste | Colocora   | 04-CBA-115 | CABORCA                   | 04-CBA-115-1 | 115            | 13.8            | 20               | 7.11   | 10.12 | 7.71  | 11.73 | 7.94                    | 15.17 | 8.35  | 16.34 |
| Noroeste | Obregon    | 04-OBU-115 | CIUDAD OBREGON UNO        | 04-OBU-115-2 | 115            | 13.8            | 30               | 8.00   | 14.56 | 8.19  | 15.93 | 8.15                    | 16.06 | 8.29  | 17.14 |
| Noroeste | Guaymas    | 04-CLA-115 | CENTINELA                 | 04-CLA-115-1 | 115            | 13.8            | 30               | 8.04   | 13.83 | 8.40  | 15.26 | 8.06                    | 14.07 | 8.41  | 15.46 |
| Noroeste | Guasave    | 04-GML-115 | GUMUJICHTAL               | 04-GML-115-1 | 115            | 13.8            | 30               | 7.93   | 14.75 | 8.26  | 16.03 | 8.06                    | 15.99 | 8.36  | 17.04 |
| Noroeste | Colocora   | 04-PLD-230 | PUERTO LIBERTAD           | 04-PLD-230-1 | 230            | 13.8            | 25               | 7.25   | 12.44 | 7.60  | 14.04 | 8.07                    | 19.71 | 8.18  | 19.80 |
| Noroeste | Hermosillo | 04-RGL-115 | ROLANDO GARCIA URREA      | 04-RGL-115-1 | 115            | 13.8            | 30               | 8.27   | 17.01 | 8.86  | 17.77 | 8.86                    | 18.22 | 8.86  | 19.22 |
| Noroeste | Los Mochis | 04-CNT-115 | CENTENARIO                | 04-CNT-115-1 | 115            | 13.8            | 30               | 8.12   | 16.17 | 8.32  | 17.21 | 8.17                    | 16.55 | 8.36  | 17.51 |
| Noroeste | Hermosillo | 04-VPI-115 | VILLA DEL PITIC           | 04-VPI-115-1 | 115            | 13.8            | 30               | 8.05   | 14.92 | 8.23  | 16.23 | 8.20                    | 16.49 | 8.33  | 17.47 |
| Noroeste | Los Mochis | 04-TPO-115 | TOPOLOBAMPO               | 04-TPO-115-1 | 115            | 13.8            | 20               | 8.16   | 13.06 | 8.55  | 14.58 | 8.21                    | 13.34 | 8.59  | 14.83 |
| Noroeste | Hermosillo | 04-VPI-115 | VILLA DEL PITIC           | 04-VPI-115-2 | 115            | 13.8            | 30               | 8.11   | 14.89 | 8.30  | 16.20 | 8.26                    | 16.46 | 8.40  | 17.45 |
| Noroeste | Mazatlán   | 04-MZU-115 | MAZATLAN UNO              | 04-MZU-115-1 | 115            | 13.8            | 30               | 8.30   | 16.97 | 8.31  | 17.48 | 8.27                    | 17.32 | 8.42  | 19.00 |
| Noroeste | Hermosillo | 04-HLN-115 | HERMOSILLO NUEVE          | 04-HLN-115-1 | 115            | 13.8            | 30               | 8.14   | 15.61 | 8.30  | 16.78 | 8.28                    | 17.30 | 8.40  | 18.08 |
| Noroeste | Hermosillo | 04-TCG-115 | SUBESTACION TECNOLOGICO   | 04-TCG-115-1 | 115            | 13.8            | 30               | 8.29   | 15.33 | 8.56  | 16.53 | 8.45                    | 16.78 | 8.67  | 17.67 |
| Noroeste | Nogales    | 04-NGS-115 | NOGALES                   | 04-NGS-115-2 | 115            | 13.8            | 40               | 8.37   | 8.62  | 9.13  | 10.21 | 8.68                    | 10.60 | 9.38  | 12.20 |
| Noroeste | Navojoa    | 04-NVA-115 | NAVOJOA                   | 04-NVA-115-4 | 115            | 13.8            | 30               | 8.57   | 15.22 | 8.88  | 16.43 | 8.70                    | 16.32 | 8.97  | 17.31 |
| Noroeste | Guaymas    | 04-SGU-115 | SUBESTACIONES GUAYMAS UNO | 04-SGU-115-1 | 115            | 13.8            | 30               | 8.30   | 16.70 | 8.31  | 17.48 | 8.26                    | 17.30 | 8.42  | 19.00 |
| Noroeste | Guaymas    | 04-SGU-115 | SUBESTACIONES GUAYMAS UNO | 04-SGU-115-2 | 115            | 13.8            | 30               | 8.74   | 15.49 | 9.06  | 16.65 | 8.78                    | 15.81 | 9.08  | 16.90 |
| Noroeste | Mazatlán   | 04-MAC-115 | MAZATLAN CENTRO           | 04-MAC-115-1 | 115            | 13.8            | 30               | 8.62   | 15.51 | 8.89  | 16.68 | 8.82                    | 17.53 | 9.02  | 18.24 |
| Noroeste | Culiacán   | 04-CUU-115 | CULIACAN UNO              | 04-CUU-115-2 | 115            | 13.8            | 30               | 8.68   | 15.68 | 8.92  | 16.82 | 8.83                    | 17.35 | 9.02  | 18.11 |
| Noroeste | Culiacán   | 04-CUU-115 | CULIACAN UNO              | 04-CUU-115-1 | 115            | 13.8            | 30               | 8.70   | 15.67 | 8.94  | 16.81 | 8.85                    | 17.45 | 9.05  | 18.11 |
| Noroeste | Culiacán   | 04-CUT-115 | CULIACAN TRES             | 04-CUT-115-3 | 115            | 13.8            | 30               | 8.72   | 15.96 | 8.97  | 16.86 | 8.87                    | 17.74 | 9.08  | 18.40 |
| Noroeste | Culiacán   | 04-CUT-115 | CULIACAN TRES             | 04-CUT-115-4 | 115            | 13.8            | 30               | 8.75   | 15.96 | 8.98  | 17.04 | 8.91                    | 17.74 | 9.09  | 18.40 |
| Noroeste | Mazatlán   | 04-MAC-115 | MAZATLAN CENTRO           | 04-MAC-115-2 | 115            | 13.8            | 30               | 8.73   | 15.47 | 9.00  | 16.65 | 8.93                    | 17.51 | 9.14  | 18.22 |
| Noroeste | Obregon    | 04-OBU-115 | CIUDAD OBREGON UNO        | 04-OBU-115-1 | 115            | 13.8            | 30               | 8.89   | 16.60 | 9.12  | 17.54 | 8.97                    | 17.16 | 9.17  | 17.97 |
| Noroeste | Hermosillo | 04-HLE-115 | HERMOSILLO SIETE          | 04-HLE-115-2 | 115            | 13.8            | 30               | 8.82   | 15.53 | 9.09  | 16.70 | 8.99                    | 17.24 | 9.20  | 18.02 |
| Noroeste | Los Mochis | 04-COC-115 | CIUDAD OBREGON CUATRO     | 04-COC-115-1 | 115            | 13.8            | 30               | 9.03   | 17.08 | 9.18  | 17.48 | 9.17                    | 18.02 | 9.25  | 18.37 |
| Noroeste | Los Mochis | 04-LMT-115 | LOS MOCHIS TRES           | 04-LMT-115-2 | 115            | 13.8            | 30               | 9.05   | 16.59 | 9.28  | 17.53 | 9.11                    | 17.09 | 9.33  | 17.91 |
| Noroeste | Mazatlán   | 04-MZU-115 | MAZATLAN UNO              | 04-MZU-115-2 | 115            | 13.8            | 30               | 8.94   | 16.24 | 9.19  | 17.25 | 9.14                    | 18.44 | 9.33  | 18.91 |
| Noroeste | Hermosillo | 04-HLN-115 | HERMOSILLO NUEVE          | 04-HLN-115-2 | 115            | 13.8            | 30               | 9.02   | 15.24 | 9.23  | 16.49 | 9.20                    | 17.04 | 9.35  | 17.89 |
| Noroeste | Hermosillo | 04-HLS-115 | HERMOSILLO SEIS           | 04-HLS-115-2 | 115            | 13.8            | 40               | 9.51   | 14.54 | 9.84  | 15.88 | 9.82                    | 16.64 | 10.06 | 17.57 |
| Noroeste | Culiacán   | 04-CMS-115 | CULIACAN SUR              | 04-CMS-115-1 | 115            | 13.8            | 40               | 9.67   | 14.60 | 10.01 | 15.97 | 9.97                    | 16.87 | 10.13 | 17.38 |
| Noroeste | Culiacán   | 04-CM-115  | MILENIUM                  | 04-CM-115-1  | 115            | 13.8            | 40               | 9.67   | 14.60 | 10.04 | 15.93 | 9.85                    | 16.15 | 10.16 | 17.18 |
| Noroeste | Culiacán   | 04-CUC-115 | CULIACAN CUATRO           | 04-CUC-115-2 | 115            | 13.8            | 40               | 9.87   | 15.25 | 10.18 | 16.46 | 10.03                   | 16.85 | 10.29 | 17.73 |
| Noroeste | Culiacán   | 04-CLI-115 | CULIACAN LIBRAMIENTO      | 04-CLI-115-1 | 115            | 13.8            | 40               | 9.85   | 14.52 | 10.22 | 15.85 | 10.03                   | 16.08 | 10.35 | 17.12 |
| Noroeste | Obregon    | 04-CAJ-115 | CAJEME                    | 04-CAJ-115-1 | 115            | 13.8            | 40               | 9.99   | 16.58 | 10.29 | 17.51 | 10.06                   | 17.14 | 10.34 | 17.94 |
| Noroeste | Culiacán   | 04-CUN-115 | CULIACAN UNO              | 04-CUN-115-1 | 115            | 13.8            | 40               | 9.88   | 14.76 | 10.23 | 16.06 | 10.08                   | 16.46 | 10.37 | 17.42 |
| Noroeste | Culiacán   | 04-CUN-115 | CULIACAN NORTE            | 04-CUN-115-1 | 115            | 13.8            | 40               | 9.88   | 14.76 | 10.23 | 16.06 | 10.08                   | 16.46 | 10.37 | 17.42 |
| Noroeste | Hermosillo | 04-HMI-115 | HERMOSILLO MISION         | 04-HMI-115-1 | 115            | 13.8            | 40               | 9.58   | 13.21 | 10.03 | 14.72 | 10.12                   | 15.94 | 10.41 | 17.02 |
| Noroeste | Culiacán   | 04-CUO-115 | CULIACAN ORIENTE          | 04-CUO-115-1 | 115            | 13.8            | 40               | 9.94   | 14.69 | 10.29 | 16.01 | 10.14                   | 16.38 | 10.43 | 17.36 |
| Noroeste | Mazatlán   | 04-DMA-115 | DEL MAR                   | 04-DMA-115-1 | 115            | 13.8            | 40               | 9.89   | 14.94 | 10.23 | 16.21 | 10.15                   | 17.13 | 10.42 | 17.94 |
| Noroeste | Culiacán   | 04-ISP-115 | ISLA SEVILLA POYASTRO     | 04-ISP-115-1 | 115            | 13.8            | 40               | 9.89   | 14.94 | 10.23 | 16.21 | 10.15                   | 17.13 | 10.42 | 17.94 |
| Noroeste | Hermosillo | 04-HMI-115 | HERMOSILLO MISION         | 04-HMI-115-1 | 115            | 13.8            | 40               | 9.66   | 13.17 | 10.12 | 14.69 | 10.22                   | 15.91 | 10.51 | 17.00 |
| Noroeste | Hermosillo | 04-HCE-115 | HERMOSILLO CERESO         | 04-HCE-115-1 | 115            | 13.8            | 40               | 10.03  | 13.65 | 10.35 | 15.15 | 10.27                   | 15.36 | 10.52 | 16.57 |
| Noroeste | Navojoa    | 04-NVA-115 | NAVOJOA                   | 04-NVA-115-3 | 115            | 13.8            | 40               | 10.12  | 14.59 | 10.56 | 15.90 | 10.31                   | 15.78 | 10.69 | 16.88 |
| Noroeste | Mazatlán   | 04-MZO-115 | MAZATLAN ORIENTE          | 04-MZO-115-1 | 115            | 13.8            | 40               | 10.19  | 14.19 | 10.59 | 15.58 | 10.46                   | 16.16 | 10.78 | 17.19 |
| Noroeste | Hermosillo | 04-SCL-115 | SUBESTACION COLINAS       | 04-SCL-115-1 | 115            | 13.8            | 40               | 10.20  | 14.45 | 10.64 | 15.78 | 10.52                   | 16.29 | 10.84 | 17.29 |
| Noroeste | Hermosillo | 04-SCL-115 | SUBESTACION COLINAS       | 04-SCL-115-2 | 115            | 13.8            | 40               | 10.24  | 14.33 | 10.69 | 15.78 | 10.52                   | 16.29 | 10.84 | 17.29 |
| Noroeste | Hermosillo | 04-HLE-115 | HERMOSILLO SIETE          | 04-HLE-115-1 | 115            | 13.8            | 40               | 10.34  | 14.96 | 10.70 | 16.22 | 10.56                   | 16.83 | 10.86 | 17.71 |
| Noroeste | Culiacán   | 04-CUS-115 | CULIACAN SUR              | 04-CUS-115-1 | 115            | 13.8            | 40               | 10.39  | 14.63 | 10.79 | 15.94 | 10.58                   | 16.19 | 10.92 | 17.21 |
| Noroeste | Hermosillo | 04-HLD-115 | HERMOSILLO DOS            | 04-HLD-115-3 | 115            | 13.8            | 40               | 10.27  | 14.75 | 10.63 | 16.06 | 10.58                   | 16.76 | 10.85 | 17.66 |
| Noroeste | Mazatlán   | 04-MZU-115 | MAZATLAN UNO              | 04-MZU-115-1 | 115            | 13.8            | 40               | 10.74  | 14.97 | 10.67 | 16.23 | 10.59                   | 17.30 | 10.87 | 18.06 |
| Noroeste | Mazatlán   | 04-MZN-115 | MAZATLAN NORTE            | 04-MZN-115-2 | 115            | 13.8            | 40               | 10.31  | 14.97 | 10.67 | 16.23 | 10.59                   | 17.30 | 10.87 | 18.06 |
| Noroeste | Culiacán   | 04-CUC-115 | CULIACAN CUATRO           | 04-CUC-115-1 | 115            | 13.8            | 40               | 10.42  | 15.05 | 10.76 | 16.30 | 10.60                   | 16.70 | 10.89 | 17.61 |
| Noroeste | Hermosillo | 04-HLO-115 | HERMOSILLO OCHO           | 04-HLO-115-2 | 115            | 13.8            | 40               | 10.35  | 14.98 | 10.67 | 16.25 | 10.61                   | 17.17 | 10.85 | 17.97 |
| Noroeste | Obregon    | 04-COD-115 | CIUDAD OBREGON DOS        | 04-COD-115-1 | 115            | 13.8            | 40               | 10.54  | 17.15 | 10.82 | 17.95 | 10.64                   | 17.70 | 10.89 | 18.37 |
| Noroeste | Los Mochis | 04-COC-115 | CIUDAD OBREGON CUATRO     | 04-COC-115-1 | 115            | 13.8            | 40               | 10.54  | 17.15 | 10.82 | 17.95 | 10.64                   | 17.70 | 10.89 | 18.37 |
| Noroeste | Culiacán   | 04-CCO-115 | CULIACAN CENTRO           | 04-CCO-115-1 | 115            | 13.8            | 40               | 10.47  | 14.48 | 10.87 | 15.82 | 10.70                   | 16.21 | 11.03 | 17.23 |
| Noroeste | Hermosillo | 04-HLO-115 | HERMOSILLO OCHO           | 04-HLO-115-1 | 115            | 13.8            | 40               | 10.44  | 14.95 | 10.76 | 16.22 | 10.70                   | 17.15 | 10.95 | 17.96 |
| Noroeste | Hermosillo | 04-HLD-115 | HERMOSILLO DOS            | 04-HLD-115-1 | 115            | 13.8            | 40               | 10.40  | 14.71 | 10.77 | 16.01 | 10.71                   | 16.72 | 10.99 | 17.63 |
| Noroeste | Culiacán   | 04-CUD-115 | CULIACAN DOS              | 04-CUD-115-1 | 115            | 13.8            | 40               | 10.52  | 14.78 | 10.89 | 16.07 | 10.74                   | 16.56 | 11.04 | 17.51 |
| Noroeste | Hermosillo | 04-HLO-115 | HERMOSILLO OCHO           | 04-HLO-115-2 | 115            | 13.8            | 40               | 10.54  | 17.15 | 10.82 | 17.95 | 10.64                   | 17.70 | 10.89 | 18.37 |
| Noroeste | Culiacán   | 04-CUI-115 | CULIACAN CINCO            | 04-CUI-115-1 | 115            | 13.8            | 40               | 10.61  | 14.84 | 10.98 | 16.12 | 10.82                   | 16.56 | 11.13 | 17.50 |
| Noroeste | Hermosillo | 04-LAD-115 | LADRILLERAS               | 04-LAD-115-1 | 115            | 13.8            | 40               | 10.59  | 14.99 | 10.98 | 16.24 | 10.86                   | 16.74 | 11.17 | 17.64 |
| Noroeste | Hermosillo | 04-HLS-115 | HERMOSIL                  |              |                |                 |                  |  |       |       |       |                         |       |       |       |

Niveles de corto circuito de media tensión en las RGD,  
correspondientes al año 2020



NOTA: Con base a niveles de corto circuito de la Red Nacional de Transmisión 2020, publicado por el CENACE en Diciembre 2017

| División | Zona          | Acronimo   | Subestación                      | Banco        | Tensión A (KV) | Tensión MT (KV) | Capacidad en MVA | Corriente de corto circuito (kA), y relación X/R |       |      |       |                         |       |      |       |
|----------|---------------|------------|----------------------------------|--------------|----------------|-----------------|------------------|--|-------|------|-------|-------------------------|-------|------|-------|
|          |               |            |                                  |              |                |                 |                  | Nivel de CC mínimo 2020                          |       |      |       | Nivel de CC máximo 2020 |       |      |       |
|          |               |            |                                  |              |                |                 |                  | 3F   | X/R   | 1F   | X/R   | 3F                      | X/R   | 1F   | X/R   |
| Norte    | Delicias      | 05-LCS-115 | LAZARO CARDENAS                  | 05-LCS-115-2 | 115            | 34.5            | 20               | 1.87   | 11.39 | 1.96 | 13.07 | 1.99                    | 15.58 | 2.05 | 16.72 |
| Norte    | Parral        | 05-JEZ-115 | JIMENEZ                          | 05-JEZ-115-3 | 115            | 34.5            | 20               | 1.89   | 10.58 | 2.01 | 12.26 | 2.00                    | 12.07 | 2.09 | 13.71 |
| Norte    | Casas Grandes | 05-CHC-115 | CASAS GRANDES                    | 05-CHC-115-3 | 115            | 34.5            | 20               | 1.94   | 10.53 | 2.14 | 12.05 | 2.05                    | 14.86 | 2.15 | 16.11 |
| Norte    | Cuauhtemoc    | 05-CHC-115 | CUAUHTEMOC                       | 05-CHC-115-1 | 115            | 34.5            | 20               | 2.04   | 14.20 | 2.11 | 15.62 | 2.07                    | 15.21 | 2.12 | 16.53 |
| Norte    | Cuauhtemoc    | 05-ARE-115 | ARENALES                         | 05-ARE-115-1 | 115            | 34.5            | 20               | 2.06   | 15.20 | 2.12 | 16.44 | 2.08                    | 16.40 | 2.13 | 17.39 |
| Norte    | Cuauhtemoc    | 05-CHC-115 | CUAUHTEMOC                       | 05-CHC-115-3 | 115            | 34.5            | 20               | 2.15   | 13.99 | 2.22 | 15.43 | 2.18                    | 15.12 | 2.24 | 16.37 |
| Norte    | Durango       | 05-AMN-115 | AMADO NERVO                      | 05-AMN-115-1 | 115            | 34.5            | 20               | 1.94   | 6.16  | 2.17 | 7.48  | 2.18                    | 7.72  | 2.38 | 9.30  |
| Norte    | Juarez        | 05-MCZ-115 | MOCOTZUMA                        | 05-MCZ-115-2 | 115            | 34.5            | 20               | 2.19   | 19.55 | 2.23 | 19.99 | 2.20                    | 19.40 | 2.24 | 19.58 |
| Norte    | Parral        | 05-JEZ-115 | JIMENEZ                          | 05-JEZ-115-2 | 115            | 34.5            | 20               | 2.09   | 10.08 | 2.24 | 11.75 | 2.22                    | 11.56 | 2.34 | 13.23 |
| Norte    | Chihuahua     | 05-NHO-115 | NEUVA HOLANDA                    | 05-NHO-115-1 | 115            | 34.5            | 30               | 2.07   | 8.76  | 2.39 | 10.00 | 2.24                    | 9.89  | 2.53 | 11.29 |
| Norte    | Juarez        | 05-BJZ-115 | BUENITO JUAREZ                   | 05-BJZ-115-1 | 115            | 34.5            | 20               | 2.22   | 14.29 | 2.31 | 15.65 | 2.24                    | 14.74 | 2.32 | 16.04 |
| Norte    | Casas Grandes | 05-MTV-115 | MONTEVERDE                       | 05-MTV-115-1 | 115            | 34.5            | 30               | 2.24   | 8.77  | 2.52 | 10.21 | 2.25                    | 8.89  | 2.52 | 10.34 |
| Norte    | Casas Grandes | 05-JOS-115 | JANOS                            | 05-JOS-115-1 | 115            | 34.5            | 30               | 2.36   | 14.53 | 2.44 | 15.91 | 2.37                    | 14.86 | 2.45 | 16.11 |
| Norte    | Chihuahua     | 05-OAS-115 | OASIS                            | 05-OAS-115-1 | 115            | 34.5            | 30               | 2.08   | 8.78  | 2.39 | 10.11 | 2.25                    | 9.98  | 2.54 | 11.40 |
| Norte    | Chihuahua     | 05-THS-115 | TRES HERMANOS                    | 05-THS-115-2 | 115            | 34.5            | 30               | 2.12   | 6.84  | 2.42 | 8.12  | 2.28                    | 7.38  | 2.56 | 8.79  |
| Norte    | Chihuahua     | 05-OAS-115 | OASIS                            | 05-OAS-115-1 | 115            | 34.5            | 30               | 2.11   | 8.71  | 2.43 | 10.03 | 2.28                    | 9.90  | 2.58 | 11.32 |
| Norte    | Chihuahua     | 05-THS-115 | TRES HERMANOS                    | 05-THS-115-1 | 115            | 34.5            | 30               | 2.14   | 6.79  | 2.45 | 8.06  | 2.30                    | 7.33  | 2.59 | 8.72  |
| Norte    | Juarez        | 05-VSM-115 | VADO SANTA MARIA                 | 05-VSM-115-1 | 115            | 34.5            | 30               | 2.30   | 11.78 | 2.56 | 13.17 | 2.31                    | 12.12 | 2.57 | 13.49 |
| Norte    | Casas Grandes | 05-VSM-115 | VADO SANTA MARIA                 | 05-VSM-115-1 | 115            | 34.5            | 30               | 2.30   | 8.32  | 2.60 | 9.74  | 2.31                    | 8.42  | 2.60 | 9.85  |
| Norte    | Torreón       | 05-LSC-115 | LAGUNA SECA                      | 05-LSC-115-1 | 115            | 34.5            | 20               | 2.29   | 14.71 | 2.35 | 16.05 | 2.31                    | 15.41 | 2.36 | 16.62 |
| Norte    | Juarez        | 05-VEZ-115 | VALLE ESPERANZA                  | 05-VEZ-115-2 | 115            | 34.5            | 30               | 2.20   | 11.77 | 2.56 | 13.17 | 2.31                    | 12.11 | 2.57 | 13.49 |
| Norte    | Juarez        | 05-GJM-115 | GOMEZ MEDANOS                    | 05-GJM-115-1 | 115            | 34.5            | 6.6              | 2.31   | 14.86 | 2.38 | 16.15 | 2.32                    | 15.29 | 2.39 | 16.50 |
| Norte    | Juarez        | 05-BJZ-115 | BUENITO JUAREZ                   | 05-BJZ-115-2 | 115            | 34.5            | 20               | 2.33   | 14.90 | 2.43 | 15.49 | 2.37                    | 14.44 | 2.44 | 15.88 |
| Norte    | Juarez        | 05-LSC-115 | LAGUNA SECA                      | 05-LSC-115-1 | 115            | 34.5            | 20               | 2.35   | 14.61 | 2.41 | 15.97 | 2.37                    | 15.32 | 2.43 | 16.55 |
| Norte    | Chihuahua     | 05-NHO-115 | NEUVA HOLANDA                    | 05-NHO-115-2 | 115            | 34.5            | 30               | 2.23   | 8.40  | 2.60 | 9.66  | 2.42                    | 9.49  | 2.77 | 10.85 |
| Norte    | Chihuahua     | 05-OJI-115 | OJINAGA                          | 05-OJI-115-1 | 115            | 34.5            | 9.375            | 2.26   | 8.03  | 2.65 | 9.46  | 2.44                    | 8.43  | 2.72 | 9.92  |
| Norte    | Cuauhtemoc    | 05-MEN-115 | MENONITA                         | 05-MEN-115-1 | 115            | 34.5            | 30               | 2.44   | 8.84  | 2.67 | 10.42 | 2.47                    | 9.35  | 2.69 | 10.95 |
| Norte    | Juarez        | 05-AMN-115 | AMADO NERVO                      | 05-AMN-115-1 | 115            | 34.5            | 20               | 2.43   | 14.77 | 2.68 | 16.27 | 2.48                    | 15.29 | 2.69 | 16.40 |
| Norte    | Gomez Palacio | 05-BER-115 | BERMUEJILLO                      | 05-BER-115-2 | 115            | 34.5            | 7.5              | 2.45   | 16.02 | 2.52 | 17.09 | 2.48                    | 16.41 | 2.53 | 17.40 |
| Norte    | Gomez Palacio | 05-FZA-115 | FRANCISCO ZARCO                  | 05-FZA-115-2 | 115            | 34.5            | 6.25             | 2.54   | 17.57 | 2.58 | 18.28 | 2.56                    | 18.05 | 2.59 | 18.64 |
| Norte    | Casas Grandes | 05-SBV-115 | SAN BUENAVENTURA                 | 05-SBV-115-1 | 115            | 34.5            | 30               | 2.54   | 10.31 | 2.76 | 11.90 | 2.56                    | 10.54 | 2.78 | 12.13 |
| Norte    | Casas Grandes | 05-GNA-115 | GALEANA                          | 05-GNA-115-2 | 115            | 34.5            | 30               | 2.55   | 10.46 | 2.77 | 12.05 | 2.57                    | 10.88 | 2.78 | 12.27 |
| Norte    | Casas Grandes | 05-SBV-115 | SAN BUENAVENTURA                 | 05-SBV-115-1 | 115            | 34.5            | 30               | 2.63   | 10.26 | 2.83 | 11.66 | 2.62                    | 11.34 | 2.84 | 12.17 |
| Norte    | Casas Grandes | 05-SBV-115 | SAN BUENAVENTURA                 | 05-SBV-115-2 | 115            | 34.5            | 30               | 2.62   | 10.16 | 2.86 | 11.74 | 2.64                    | 10.39 | 2.87 | 11.97 |
| Norte    | Cuauhtemoc    | 05-RCS-115 | RUIZ CORTINES                    | 05-RCS-115-1 | 115            | 34.5            | 30               | 2.67   | 11.06 | 2.85 | 12.69 | 2.70                    | 11.97 | 2.87 | 13.55 |
| Norte    | Casas Grandes | 05-AON-115 | ASCENSION                        | 05-AON-115-1 | 115            | 34.5            | 30               | 2.86   | 13.97 | 2.86 | 15.33 | 2.71                    | 14.36 | 2.87 | 15.66 |
| Norte    | Cuauhtemoc    | 05-AVO-115 | ALVARO OBREGON                   | 05-AVO-115-1 | 115            | 34.5            | 30               | 2.68   | 10.42 | 2.86 | 12.10 | 2.71                    | 11.18 | 2.88 | 12.84 |
| Norte    | Cuauhtemoc    | 05-AVO-115 | ALVARO OBREGON                   | 05-AVO-115-2 | 115            | 34.5            | 30               | 2.69   | 10.26 | 2.87 | 11.90 | 2.73                    | 11.16 | 2.90 | 12.81 |
| Norte    | Cuauhtemoc    | 05-MBA-115 | MANITOBA                         | 05-MBA-115-1 | 115            | 34.5            | 30               | 2.70   | 11.63 | 2.85 | 13.28 | 2.74                    | 12.57 | 2.87 | 14.14 |
| Norte    | Cuauhtemoc    | 05-RCS-115 | RUIZ CORTINES                    | 05-RCS-115-2 | 115            | 34.5            | 30               | 2.71   | 10.98 | 2.90 | 12.61 | 2.74                    | 11.89 | 2.93 | 13.47 |
| Norte    | Cuauhtemoc    | 05-MCO-115 | SUBESTACION 108                  | 05-MCO-115-2 | 115            | 34.5            | 30               | 2.72   | 10.80 | 2.88 | 12.49 | 2.75                    | 11.65 | 2.91 | 13.29 |
| Norte    | Casas Grandes | 05-JOS-115 | JANOS                            | 05-JOS-115-1 | 115            | 34.5            | 30               | 2.75   | 13.30 | 2.92 | 14.73 | 2.76                    | 13.66 | 2.93 | 15.06 |
| Norte    | Casas Grandes | 05-AON-115 | ASCENSION                        | 05-AON-115-1 | 115            | 34.5            | 30               | 2.76   | 13.89 | 2.93 | 15.26 | 2.77                    | 13.84 | 2.94 | 15.58 |
| Norte    | Casas Grandes | 05-JOS-115 | JANOS                            | 05-JOS-115-2 | 115            | 34.5            | 30               | 2.79   | 13.22 | 2.97 | 14.66 | 2.81                    | 13.59 | 2.98 | 14.99 |
| Norte    | Durango       | 05-LAF-115 | LA FLOR                          | 05-LAF-115-1 | 115            | 34.5            | 9.375            | 2.81   | 11.32 | 3.02 | 12.91 | 2.82                    | 11.42 | 3.03 | 13.01 |
| Norte    | Casas Grandes | 05-CGR-115 | CASAS GRANDES                    | 05-CGR-115-2 | 115            | 34.5            | 30               | 2.81   | 15.88 | 2.92 | 16.95 | 2.82                    | 16.42 | 2.93 | 17.37 |
| Norte    | Juarez        | 05-PRR-115 | PORVENIR                         | 05-PRR-115-1 | 115            | 34.5            | 6.25             | 2.83   | 10.81 | 3.03 | 12.46 | 2.84                    | 10.92 | 3.04 | 12.56 |
| Norte    | Cuauhtemoc    | 05-MCO-115 | MOCOTZUMA 108                    | 05-MCO-115-1 | 115            | 34.5            | 30               | 2.83   | 10.90 | 3.03 | 12.46 | 2.84                    | 10.92 | 3.04 | 12.56 |
| Norte    | Chihuahua     | 05-AMA-115 | ALDAMA                           | 05-AMA-115-2 | 115            | 23              | 20               | 2.85   | 12.37 | 2.99 | 13.97 | 2.88                    | 13.07 | 3.01 | 14.60 |
| Norte    | Durango       | 05-CLI-115 | CENTRO LOGISTICO E INDUSTRIAL DE | 05-CLI-115-2 | 115            | 34.5            | 30               | 2.84   | 13.63 | 2.96 | 15.09 | 2.89                    | 14.93 | 3.00 | 16.19 |
| Norte    | Chihuahua     | 05-OCF-115 | OCAMPO                           | 05-OCF-115-2 | 115            | 23              | 30               | 2.86   | 15.88 | 2.92 | 16.99 | 2.89                    | 17.11 | 2.94 | 17.94 |
| Norte    | Durango       | 05-CLI-115 | CENTRO LOGISTICO E INDUSTRIAL DE | 05-CLI-115-1 | 115            | 34.5            | 30               | 2.85   | 13.61 | 2.98 | 15.07 | 2.90                    | 14.92 | 3.01 | 16.18 |
| Norte    | Chihuahua     | 05-ES-115  | EL SAUZ                          | 05-ES-115-1  | 115            | 23              | 20               | 2.89   | 10.39 | 2.97 | 11.73 | 2.87                    | 11.63 | 2.95 | 12.17 |
| Norte    | Chihuahua     | 05-ESZ-115 | EL SAUZ                          | 05-ESZ-115-1 | 115            | 23              | 20               | 2.95   | 8.68  | 3.13 | 10.39 | 2.97                    | 8.99  | 3.15 | 10.73 |
| Norte    | Cuauhtemoc    | 05-MBA-115 | MANITOBA                         | 05-MBA-115-2 | 115            | 34.5            | 30               | 3.01   | 11.10 | 3.19 | 12.77 | 3.05                    | 12.06 | 3.22 | 13.66 |
| Norte    | Durango       | 05-NID-115 | NUOVO IDEAL                      | 05-NID-115-2 | 115            | 13.8            | 7.5              | 3.10   | 7.67  | 3.38 | 9.24  | 3.11                    | 7.77  | 3.38 | 9.35  |
| Norte    | Durango       | 05-DGU-115 | DURANGO UNO                      | 05-DGU-115-3 | 115            | 34.5            | 30               | 3.10   | 15.45 | 3.20 | 16.62 | 3.13                    | 16.27 | 3.22 | 17.27 |
| Norte    | Parral        | 05-SQU-115 | SANTO DOMINGO UNO                | 05-SQU-115-1 | 115            | 34.5            | 20               | 3.12   | 14.90 | 3.22 | 16.47 | 3.15                    | 16.23 | 3.24 | 17.07 |
| Norte    | Juarez        | 05-DUN-115 | DUNAS                            | 05-DUN-115-1 | 115            | 13.8            | 9.375            | 3.23   | 14.44 | 3.33 | 15.81 | 3.24                    | 14.65 | 3.34 | 15.98 |
| Norte    | Delicias      | 05-NAI-115 | NAUCA                            | 05-NAI-115-1 | 115            | 13.8            | 9.375            | 2.90   | 7.32  | 3.12 | 8.93  | 3.25                    | 9.92  | 3.37 | 11.74 |
| Norte    | Parral        | 05-BUF-115 | BUFALO                           | 05-BUF-115-1 | 115            | 13.8            | 9.375            | 3.11   | 11.10 | 3.27 | 12.80 | 3.26                    | 12.49 | 3.38 | 14.13 |
| Norte    | Chihuahua     | 05-OJI-115 | OJINAGA                          | 05-OJI-115-2 | 115            | 13.8            | 20               | 3.14   | 6.69  | 3.68 | 8.84  | 3.29                    | 7.00  | 3.81 | 8.23  |
| Norte    | Chihuahua     | 05-MCZ-115 | MOCOTZUMA                        | 05-MCZ-115-1 | 115            | 34.5            | 20               | 3.15   | 17.90 | 3.40 | 19.21 | 3.32                    | 17.84 | 3.41 | 19.38 |
| Norte    | Juarez        | 05-CER-115 | CERESO                           | 05-CER-115-1 | 115            | 13.8            | 9.375            | 3.51   | 16.94 | 3.58 | 17.81 | 3.51                    | 17.27 | 3.59 | 18.06 |
| Norte    | Chihuahua     | 05-CUP-115 | CHIUAHUA PLANTA                  | 05-CUP-115-1 | 115            | 23              | 25               | 3.59   | 15.86 | 3.66 | 16.98 | 3.63                    | 17.45 | 3.69 | 18.19 |
| Norte    | Torreón       | 05-PRA-115 | PARRAS                           | 05-PRA-115-1 | 115            | 13.8            | 20               | 3.74   | 7.80  | 4.24 | 9.17  | 3.71                    | 7.58  | 4.22 | 8.94  |
| Norte    | Chihuahua     | 05-CUP-115 | CHIUAHUA PLANTA                  | 05-CUP-115-2 | 115            | 23              | 25               | 3.68   | 15.79 | 3.75 | 16.92 | 3.72                    | 17.40 | 3.78 | 18.15 |
| Norte    | Parral        | 05-PAR-115 | PARRAL                           | 05-PAR-115-1 | 115            | 13.8            | 12.5             | 3.75   | 8.41  | 4.07 | 10.07 | 3.79                    | 8.95  | 4.06 | 10.63 |
| Norte    | Parral        | 05-PAR-115 | PARRAL                           | 05-PAR-115-3 | 115            | 13.8            | 12.5             | 3.75   | 8.41  |      |       |                         |       |      |       |

Niveles de corto circuito de media tensión en las RGD,  
correspondientes al año 2020



NOTA: Con base a niveles de corto circuito de la Red Nacional de Transmisión 2020, publicado por el CENACE en Diciembre 2017

| División | Zona          | Acronímico | Subestación       | Banco        | Tensión AT (KV) | Tensión MT (KV) | Capacidad en MVA | Corriente de corto circuito (kA), y relación X/R |       |      |       |                         |       |      |       |
|----------|---------------|------------|-------------------|--------------|-----------------|-----------------|------------------|--|-------|------|-------|-------------------------|-------|------|-------|
|          |               |            |                   |              |                 |                 |                  | Nivel de CC mínimo 2020                          |       |      |       | Nivel de CC máximo 2020 |       |      |       |
|          |               |            |                   |              |                 |                 |                  | 3F   | X/R   | 1F   | X/R   | 3F                      | X/R   | 1F   | X/R   |
| Norte    | Torreón       | 05-LRT-115 | LA ROSITA         | 05-LRT-115-1 | 115             | 13.8            | 20               | 5.83   | 12.46 | 6.00 | 14.13 | 5.87                    | 12.94 | 6.03 | 14.56 |
| Norte    | Torreón       | 05-BAT-115 | BATOPLAS          | 05-BAT-115-1 | 115             | 13.8            | 20               | 5.89   | 12.42 | 6.23 | 13.98 | 5.97                    | 13.43 | 6.29 | 14.88 |
| Norte    | Torreón       | 05-CPN-115 | CALIFORNIA        | 05-CPN-115-1 | 115             | 13.8            | 20               | 5.90   | 12.42 | 6.31 | 14.00 | 5.92                    | 13.18 | 6.03 | 13.73 |
| Norte    | Delicias      | 05-FVL-115 | FRANCISCO VILLA   | 05-FVL-115-1 | 115             | 13.8            | 20               | 5.87   | 16.07 | 6.02 | 17.13 | 5.99                    | 18.52 | 6.11 | 19.97 |
| Norte    | Parral        | 05-ALV-115 | ALVAVISTA         | 05-ALV-115-1 | 115             | 13.8            | 30               | 5.96   | 6.54  | 6.67 | 7.91  | 6.05                    | 7.95  | 6.74 | 8.47  |
| Norte    | Delicias      | 05-FVL-115 | FRANCISCO VILLA   | 05-FVL-115-1 | 115             | 13.8            | 20               | 5.96   | 16.02 | 6.11 | 17.09 | 6.09                    | 18.50 | 6.20 | 18.95 |
| Norte    | Torreón       | 05-MAT-115 | MATAMOROS         | 05-MAT-115-1 | 115             | 13.8            | 20               | 6.12   | 15.86 | 6.26 | 16.97 | 6.17                    | 16.75 | 6.29 | 17.66 |
| Norte    | Gomez Palacio | 05-FZA-115 | FRANCISCO ZARCO   | 05-FZA-115-1 | 115             | 13.8            | 20               | 6.14   | 15.00 | 6.35 | 16.26 | 6.23                    | 16.75 | 6.41 | 16.96 |
| Norte    | Casas Grandes | 05-CGR-115 | CASAS GRANDES     | 05-CGR-115-1 | 115             | 13.8            | 20               | 6.25   | 16.25 | 6.47 | 17.25 | 6.28                    | 16.75 | 6.48 | 17.63 |
| Norte    | Gomez Palacio | 05-AMS-115 | ALAMOS            | 05-AMS-115-1 | 115             | 13.8            | 20               | 6.27   | 16.46 | 6.41 | 17.44 | 6.33                    | 17.47 | 6.45 | 18.20 |
| Norte    | Torreón       | 05-TRR-115 | TORREÓN           | 05-TRR-115-1 | 115             | 13.8            | 20               | 6.41   | 16.48 | 6.56 | 17.46 | 6.47                    | 17.53 | 6.60 | 18.24 |
| Norte    | Torreón       | 05-TRR-115 | TORREÓN           | 05-TRR-115-2 | 115             | 13.8            | 20               | 6.51   | 16.44 | 6.66 | 17.42 | 6.58                    | 17.49 | 6.70 | 18.22 |
| Norte    | Torreón       | 05-MAT-115 | MATAMOROS         | 05-MAT-115-2 | 115             | 13.8            | 20               | 6.67   | 15.57 | 6.84 | 16.74 | 6.73                    | 16.50 | 6.88 | 17.47 |
| Norte    | Juarez        | 05-GJO-115 | GRANJERO          | 05-GJO-115-1 | 115             | 13.8            | 30               | 6.79   | 16.31 | 6.93 | 17.32 | 6.84                    | 16.97 | 6.97 | 17.83 |
| Norte    | Chihuahua     | 05-CAS-115 | CAROLINAS         | 05-CAS-115-1 | 115             | 23              | 30               | 6.73   | 12.88 | 7.03 | 14.44 | 6.88                    | 14.84 | 7.14 | 16.11 |
| Norte    | Delicias      | 05-ABG-115 | ABRAHAM GONZALEZ  | 05-ABG-115-1 | 115             | 13.8            | 30               | 6.75   | 12.22 | 7.19 | 13.77 | 7.13                    | 14.12 | 7.47 | 15.49 |
| Norte    | Durango       | 05-DGD-115 | DURANGO DOS       | 05-DGD-115-1 | 115             | 13.8            | 20               | 7.27   | 16.50 | 7.46 | 17.46 | 7.34                    | 17.54 | 7.51 | 18.25 |
| Norte    | Delicias      | 05-DEL-115 | DELICIAS          | 05-DEL-115-2 | 115             | 13.8            | 30               | 7.24   | 13.34 | 7.55 | 14.94 | 7.46                    | 15.95 | 7.70 | 17.01 |
| Norte    | Juarez        | 05-LTD-115 | LIBERTAD          | 05-LTD-115-2 | 115             | 13.8            | 30               | 7.39   | 15.70 | 7.57 | 16.85 | 7.46                    | 16.41 | 7.61 | 17.40 |
| Norte    | Juarez        | 05-LTD-115 | LIBERTAD          | 05-LTD-115-1 | 115             | 13.8            | 30               | 7.42   | 15.69 | 7.60 | 16.84 | 7.49                    | 16.40 | 7.65 | 17.40 |
| Norte    | Juarez        | 05-SID-115 | SAN ISIDRO        | 05-SID-115-1 | 115             | 13.8            | 30               | 7.46   | 14.16 | 7.78 | 15.54 | 7.52                    | 14.66 | 7.82 | 15.96 |
| Norte    | Juarez        | 05-LAG-115 | LAGOS             | 05-LAG-115-2 | 115             | 13.8            | 30               | 7.50   | 15.82 | 7.86 | 16.94 | 7.57                    | 16.55 | 7.71 | 17.52 |
| Norte    | Juarez        | 05-FTB-115 | FUENTES           | 05-FTB-115-1 | 115             | 13.8            | 30               | 7.46   | 14.50 | 7.87 | 16.20 | 7.57                    | 16.87 | 7.75 | 18.96 |
| Norte    | Torreón       | 05-REV-115 | REVOLUCION        | 05-REV-115-1 | 115             | 13.8            | 30               | 7.51   | 13.34 | 7.81 | 14.86 | 7.59                    | 14.11 | 7.87 | 15.52 |
| Norte    | Delicias      | 05-DLD-115 | DELICIAS DOS      | 05-DLD-115-1 | 115             | 13.8            | 30               | 6.00   | 8.52  | 6.66 | 10.03 | 7.65                    | 16.66 | 7.91 | 17.57 |
| Norte    | Torreón       | 05-CZU-115 | CHAVEZ            | 05-CZU-115-1 | 115             | 13.8            | 30               | 7.56   | 14.65 | 7.79 | 15.98 | 7.66                    | 16.15 | 7.87 | 17.19 |
| Norte    | Delicias      | 05-DLD-115 | DELICIAS DOS      | 05-DLD-115-2 | 115             | 13.8            | 30               | 6.02   | 8.51  | 6.68 | 10.01 | 7.68                    | 16.65 | 7.95 | 17.56 |
| Norte    | Juarez        | 05-JND-115 | JUAN DONOSO       | 05-JND-115-1 | 115             | 13.8            | 30               | 7.45   | 14.32 | 7.85 | 16.72 | 7.55                    | 16.38 | 7.82 | 17.72 |
| Norte    | Delicias      | 05-DEL-115 | DELICIAS          | 05-DEL-115-1 | 115             | 13.8            | 30               | 7.46   | 13.20 | 7.79 | 14.72 | 7.69                    | 15.84 | 7.96 | 16.93 |
| Norte    | Juarez        | 05-AZT-115 | AZTECAS           | 05-AZT-115-1 | 115             | 13.8            | 30               | 7.65   | 15.93 | 7.84 | 17.03 | 7.72                    | 16.57 | 7.89 | 17.52 |
| Norte    | Torreón       | 05-DGN-115 | DIAGONAL          | 05-DGN-115-1 | 115             | 13.8            | 30               | 7.66   | 15.30 | 7.88 | 16.52 | 7.74                    | 16.32 | 7.94 | 17.32 |
| Norte    | Juarez        | 05-OTV-115 | ORIENTE XXI       | 05-OTV-115-1 | 115             | 13.8            | 30               | 7.67   | 16.21 | 7.87 | 17.24 | 7.74                    | 16.93 | 7.92 | 17.80 |
| Norte    | Gomez Palacio | 05-CRN-115 | CRANES            | 05-CRN-115-1 | 115             | 13.8            | 30               | 7.69   | 16.21 | 7.87 | 17.24 | 7.74                    | 16.93 | 7.92 | 17.80 |
| Norte    | Juarez        | 05-AEP-115 | AEROPUERTO        | 05-AEP-115-2 | 115             | 13.8            | 30               | 7.72   | 15.44 | 7.97 | 16.42 | 7.79                    | 16.03 | 8.02 | 17.09 |
| Norte    | Juarez        | 05-SVC-115 | SALVACAR          | 05-SVC-115-2 | 115             | 13.8            | 30               | 7.75   | 16.22 | 7.94 | 17.25 | 7.81                    | 16.90 | 7.98 | 17.77 |
| Norte    | Juarez        | 05-SVC-115 | SALVACAR          | 05-SVC-115-1 | 115             | 13.8            | 30               | 7.76   | 16.21 | 7.95 | 17.24 | 7.83                    | 16.89 | 8.00 | 17.77 |
| Norte    | Juarez        | 05-CVA-115 | CHAVEÑA           | 05-CVA-115-1 | 115             | 13.8            | 30               | 7.78   | 16.19 | 7.97 | 17.22 | 7.87                    | 16.99 | 8.03 | 17.84 |
| Norte    | Juarez        | 05-TOR-115 | TORREÓN           | 05-TOR-115-2 | 115             | 13.8            | 30               | 7.46   | 16.69 | 7.81 | 17.63 | 7.76                    | 17.41 | 8.03 | 18.15 |
| Norte    | Juarez        | 05-AEP-115 | AEROPUERTO        | 05-AEP-115-1 | 115             | 13.8            | 30               | 7.82   | 15.40 | 8.08 | 16.58 | 7.89                    | 15.99 | 8.13 | 17.06 |
| Norte    | Torreón       | 05-PSA-115 | PASO DEL AGUILA   | 05-PSA-115-1 | 115             | 13.8            | 30               | 7.82   | 14.34 | 8.07 | 15.73 | 7.90                    | 15.27 | 8.13 | 16.50 |
| Norte    | Juarez        | 05-PAT-115 | PATRIA            | 05-PAT-115-1 | 115             | 13.8            | 30               | 7.83   | 15.60 | 8.05 | 16.75 | 7.91                    | 16.29 | 8.10 | 17.30 |
| Norte    | Juarez        | 05-PAT-115 | PATRIA            | 05-PAT-115-2 | 115             | 13.8            | 30               | 7.84   | 15.59 | 8.06 | 16.75 | 7.92                    | 16.29 | 8.11 | 17.30 |
| Norte    | Juarez        | 05-CLG-115 | COLEGIO           | 05-CLG-115-1 | 115             | 13.8            | 20               | 7.90   | 15.50 | 8.15 | 17.32 | 7.95                    | 16.89 | 8.07 | 17.72 |
| Norte    | Durango       | 05-DGU-115 | DURANGO UNO       | 05-DGU-115-2 | 115             | 13.8            | 24               | 7.86   | 15.40 | 8.12 | 16.59 | 7.92                    | 16.23 | 8.17 | 17.24 |
| Norte    | Juarez        | 05-PQE-115 | PARQUE            | 05-PQE-115-1 | 115             | 13.8            | 30               | 7.86   | 16.82 | 8.01 | 17.72 | 7.95                    | 17.79 | 8.07 | 18.44 |
| Norte    | Juarez        | 05-CLG-115 | COLEGIO           | 05-CLG-115-1 | 115             | 13.8            | 30               | 7.78   | 15.49 | 7.99 | 16.67 | 7.95                    | 16.81 | 8.11 | 17.71 |
| Norte    | Gomez Palacio | 05-JAR-115 | JARDIN            | 05-JAR-115-1 | 115             | 13.8            | 30               | 7.88   | 15.87 | 8.05 | 16.98 | 7.97                    | 17.09 | 8.12 | 17.92 |
| Norte    | Juarez        | 05-CHM-115 | CHAMIZAL          | 05-CHM-115-2 | 115             | 13.8            | 30               | 7.91   | 16.20 | 8.10 | 17.42 | 8.02                    | 17.19 | 8.19 | 18.82 |
| Norte    | Juarez        | 05-LAG-115 | LAGOS             | 05-LAG-115-1 | 115             | 13.8            | 30               | 7.92   | 15.63 | 8.11 | 16.79 | 8.00                    | 16.39 | 8.16 | 17.39 |
| Norte    | Juarez        | 05-MED-115 | MEDANOS           | 05-MED-115-1 | 115             | 13.8            | 30               | 7.95   | 15.73 | 8.18 | 16.85 | 8.02                    | 16.46 | 8.23 | 17.43 |
| Norte    | Juarez        | 05-GEM-115 | GEMINIS           | 05-GEM-115-1 | 115             | 13.8            | 30               | 7.95   | 15.67 | 8.18 | 16.82 | 8.02                    | 16.27 | 8.20 | 17.30 |
| Norte    | Torreón       | 05-CFN-115 | CALIFORNIA        | 05-CFN-115-2 | 115             | 13.8            | 30               | 7.94   | 16.44 | 8.08 | 17.43 | 8.03                    | 17.64 | 8.14 | 18.34 |
| Norte    | Gomez Palacio | 05-MIR-115 | MIRAVAJE          | 05-MIR-115-1 | 115             | 13.8            | 30               | 7.94   | 16.21 | 8.11 | 17.33 | 8.04                    | 17.17 | 8.16 | 18.56 |
| Norte    | Torreón       | 05-ABA-115 | ABASTOS           | 05-ABA-115-2 | 115             | 13.8            | 30               | 7.95   | 16.60 | 8.09 | 17.55 | 8.04                    | 17.82 | 8.15 | 18.47 |
| Norte    | Juarez        | 05-TEC-115 | TECNOLOGICO       | 05-TEC-115-2 | 115             | 13.8            | 30               | 7.97   | 15.10 | 8.19 | 16.36 | 8.05                    | 15.83 | 8.24 | 16.95 |
| Norte    | Juarez        | 05-CAR-115 | CARTAGENA         | 05-CAR-115-2 | 115             | 13.8            | 30               | 7.95   | 15.62 | 8.16 | 16.78 | 8.05                    | 16.51 | 8.23 | 17.48 |
| Norte    | Torreón       | 05-ALL-115 | ALLENDE           | 05-ALL-115-2 | 115             | 13.8            | 30               | 7.98   | 15.91 | 8.14 | 17.01 | 8.07                    | 17.09 | 8.21 | 17.92 |
| Norte    | Juarez        | 05-ZZA-115 | ZARAGOZA          | 05-ZZA-115-1 | 115             | 13.8            | 30               | 7.99   | 15.87 | 8.17 | 16.97 | 8.08                    | 17.09 | 8.22 | 17.92 |
| Norte    | Torreón       | 05-ALL-115 | ALLENDE           | 05-ALL-115-1 | 115             | 13.8            | 30               | 7.99   | 15.90 | 8.16 | 17.01 | 8.07                    | 17.09 | 8.22 | 17.92 |
| Norte    | Gomez Palacio | 05-JAR-115 | JARDIN            | 05-JAR-115-2 | 115             | 13.8            | 30               | 7.99   | 15.82 | 8.17 | 16.95 | 8.08                    | 17.05 | 8.23 | 17.89 |
| Norte    | Juarez        | 05-CUE-115 | CUESTA            | 05-CUE-115-1 | 115             | 13.8            | 30               | 8.00   | 15.86 | 8.19 | 16.97 | 8.09                    | 16.70 | 8.25 | 17.62 |
| Norte    | Gomez Palacio | 05-SCT-115 | SACRAMENTO        | 05-SCT-115-2 | 115             | 13.8            | 30               | 8.00   | 16.80 | 8.15 | 17.70 | 8.10                    | 18.72 | 8.21 | 18.69 |
| Norte    | Juarez        | 05-CHM-115 | CHAMIZAL          | 05-CHM-115-1 | 115             | 13.8            | 30               | 8.01   | 16.50 | 8.18 | 17.42 | 8.10                    | 17.82 | 8.23 | 18.10 |
| Norte    | Juarez        | 05-CUE-115 | CUESTA            | 05-CUE-115-2 | 115             | 13.8            | 30               | 8.03   | 15.85 | 8.21 | 16.96 | 8.12                    | 16.69 | 8.28 | 17.62 |
| Norte    | Gomez Palacio | 05-SCT-115 | SACRAMENTO        | 05-SCT-115-1 | 115             | 13.8            | 30               | 8.02   | 16.79 | 8.16 | 17.70 | 8.12                    | 18.12 | 8.23 | 18.68 |
| Norte    | Juarez        | 05-CVA-115 | CHAVEÑA           | 05-CVA-115-2 | 115             | 13.8            | 30               | 8.03   | 16.09 | 8.23 | 17.15 | 8.12                    | 16.91 | 8.29 | 17.78 |
| Norte    | Juarez        | 05-POE-115 | PARQUE            | 05-POE-115-2 | 115             | 13.8            | 30               | 8.04   | 16.76 | 8.20 | 17.67 | 8.14                    | 17.75 | 8.26 | 18.41 |
| Norte    | Torreón       | 05-MIR-115 | MIRAVAJE          | 05-MIR-115-1 | 115             | 13.8            | 30               | 8.01   | 16.80 | 8.17 | 17.42 | 8.05                    | 17.33 | 8.30 | 18.10 |
| Norte    | Juarez        | 05-ZZA-115 | ZARAGOZA          | 05-ZZA-115-1 | 115             | 13.8            | 30               | 8.11   | 16.22 | 8.28 | 17.26 | 8.20                    | 17.09 | 8.34 | 17.92 |
| Norte    | Juarez        | 05-IGS-115 | INSURGENTES       | 05-IGS-115-1 | 115             | 13.8            | 30               | 8.14   | 16.96 | 8.30 | 17.82 | 8.22                    | 17.76 | 8.36 | 18.42 |
| Norte    | Juarez        | 05-INJ-115 | INDUSTRIAL JUAREZ | 05-INJ-115-2 | 115             | 13.8            | 30               | 8.18   | 16.20 | 8.36 | 17.24 | 8.26                    | 16.98 | 8.41 | 17.84 |
| Norte    | Juarez        | 05-INJ-115 | INDUSTRIAL JUAREZ | 05-INJ-115-3 | 115             | 13.8            | 30               | 8.18   | 16.20 | 8.36 | 17.24 | 8.26                    | 16.98 | 8.41 | 17.84 |
| Norte    | Juarez        | 05-TEC-115 | TECNOLOGICO       | 05-TEC-115-1 | 115             | 13.8            | 30               | 8.21   | 14.97 | 8.50 | 16.23 | 8.17                    | 16.81 | 8.56 | 18.85 |
| Norte    | Juarez        | 05-CAR-115 | CARTAGENA         | 05-CAR-115-1 | 115             | 13.8            | 30               | 8.24   | 15.50 | 8.47 | 16.68 | 8.36                    | 16.41 | 8.55 | 17.39 |
| Norte    | Torreón       | 05-TOT-115 | TORREÓN ORIENTE   | 05-TOT-115-1 | 115             | 13.8            | 30               | 8.32   | 15.79 | 8.50 | 16.92 | 8.41                    | 16.91 | 8.57 | 17.79 |
| Norte    | Juarez        | 05-CZL-115 | CHAMIZAL          | 05-CZL-115-2 | 115             | 13.8            | 30               | 8.39   | 16.40 | 8.49 | 17.39 | 8.41                    | 17.37 | 8.57 | 18.13 |
| Norte    | Durango       | 05-MLN-115 | MILLENIO          | 05-MLN-115-1 | 115             | 13.8            | 30               | 8.38   | 15.24 | 8.70 | 16.44 | 8.45                    | 15.98 | 8.75 | 17    |

### Niveles de corto circuito de media tensión en las RGD, correspondientes al año 2020



NOTA: Con base a niveles de corto circuito de la Red Nacional de Transmisión 2020, publicado por el CENACE en Diciembre 2017

| División | Zona        | Acronimo   | Subestación              | Banco        | Tensión AT (KV) | Tensión MT (KV) | Capacidad en MVA | Corriente de corto circuito (kA), y relación X/R |       |       |       |                         |       |       |       |
|----------|-------------|------------|--------------------------|--------------|-----------------|-----------------|------------------|--|-------|-------|-------|-------------------------|-------|-------|-------|
|          |             |            |                          |              |                 |                 |                  | Nivel de CC mínimo 2020                          |       |       |       | Nivel de CC máximo 2020 |       |       |       |
|          |             |            |                          |              |                 |                 |                  | 3F   | X/R   | 1F    | X/R   | 3F                      | X/R   | 1F    | X/R   |
| Oriente  | Los Tuxtlas | 02-LRD-115 | LERDO                    | 02-LRD-115-1 | 115             | 13.8            | 20               | 4.17   | 7.70  | 4.57  | 9.24  | 4.25                    | 8.44  | 4.63  | 10.04 |
| Oriente  | Teziutlan   | 02-PEE-115 | PEROTE II                | 02-PEE-115-2 | 115             | 34.5            | 40               | 4.17   | 11.58 | 4.55  | 13.08 | 4.30                    | 13.08 | 4.66  | 14.47 |
| Oriente  | Teziutlan   | 02-AD5-115 | SAN ANDRES II            | 02-AD5-115-1 | 115             | 13.8            | 12.5             | 4.37   | 9.29  | 4.73  | 11.61 | 4.29                    | 10.20 | 4.75  | 11.82 |
| Oriente  | Los Tuxtlas | 02-ADS-115 | SAN ANDRES II            | 02-ADS-115-2 | 115             | 13.8            | 12.5             | 4.35   | 7.66  | 4.74  | 9.24  | 4.48                    | 8.87  | 4.63  | 10.52 |
| Oriente  | Los Tuxtlas | 02-ADS-115 | SAN ANDRES II            | 02-ADS-115-2 | 115             | 13.8            | 12.5             | 4.35   | 7.66  | 4.74  | 9.24  | 4.48                    | 8.87  | 4.63  | 10.52 |
| Oriente  | Papaloapan  | 02-TN1-115 | LA TINAJA                | 02-TN1-115-1 | 115             | 13.8            | 20               | 4.06   | 9.15  | 4.50  | 10.66 | 4.50                    | 11.00 | 4.85  | 12.59 |
| Oriente  | Teziutlan   | 02-ZXP-115 | ZACAPOAXTLA              | 02-ZXP-115-2 | 115             | 13.8            | 20               | 4.54   | 11.40 | 4.87  | 13.00 | 4.56                    | 11.53 | 4.88  | 13.12 |
| Oriente  | Los Tuxtlas | 02-CTO-115 | CATEMACO                 | 02-CTO-115-1 | 115             | 13.8            | 20               | 4.47   | 7.93  | 4.84  | 9.54  | 4.60                    | 9.21  | 4.94  | 10.89 |
| Oriente  | Teziutlan   | 02-HYN-115 | HUEYAPAN II              | 02-HYN-115-1 | 115             | 13.8            | 20               | 4.61   | 11.10 | 4.93  | 12.73 | 4.70                    | 12.09 | 5.00  | 13.66 |
| Oriente  | Papaloapan  | 02-LBD-115 | LOMA BONITA DOS          | 02-LBD-115-1 | 115             | 13.8            | 20               | 4.67   | 11.52 | 4.94  | 13.17 | 4.71                    | 11.72 | 4.96  | 13.36 |
| Oriente  | Teziutlan   | 02-MSD-115 | MISANTLA II              | 02-MSD-115-1 | 115             | 13.8            | 20               | 4.74   | 10.99 | 5.15  | 10.66 | 4.72                    | 9.27  | 5.18  | 10.85 |
| Oriente  | Veracruz    | 02-BRS-115 | BRISAS                   | 02-BRS-115-2 | 115             | 13.8            | 30               | 8.23   | 15.89 | 8.43  | 16.99 | 8.37                    | 17.96 | 8.52  | 18.12 |
| Oriente  | Cordoba     | 02-CTH-115 | CUTTLAHUAC               | 02-CTH-115-1 | 115             | 13.8            | 20               | 4.74   | 14.92 | 4.94  | 16.17 | 4.75                    | 15.23 | 4.95  | 16.42 |
| Oriente  | Cordoba     | 02-HTU-115 | HUATUSCO                 | 02-HTU-115-1 | 115             | 13.8            | 20               | 4.74   | 14.07 | 5.02  | 15.41 | 4.76                    | 14.33 | 5.03  | 15.64 |
| Oriente  | Veracruz    | 02-CAE-115 | CARDEL                   | 02-CAE-115-1 | 115             | 13.8            | 9.375            | 3.15   | 15.63 | 3.25  | 16.77 | 3.15                    | 15.70 | 3.25  | 16.82 |
| Oriente  | Papaloapan  | 02-CAC-115 | CARLOS A. CARRILLO       | 02-CAC-115-2 | 115             | 13.8            | 20               | 4.92   | 11.09 | 4.96  | 12.80 | 4.78                    | 11.62 | 5.01  | 13.30 |
| Oriente  | Papaloapan  | 02-CSL-115 | COSOLAPA                 | 02-CSL-115-1 | 115             | 13.8            | 20               | 4.74   | 15.72 | 4.96  | 16.81 | 4.82                    | 16.66 | 5.02  | 17.56 |
| Oriente  | Coahuila    | 02-LHD-115 | LAS CHOYAS DOS           | 02-LHD-115-1 | 115             | 13.8            | 20               | 4.90   | 10.96 | 5.09  | 12.64 | 4.92                    | 11.95 | 5.10  | 12.73 |
| Oriente  | Poza Rica   | 02-GZD-115 | GUTIERREZ ZAMORA DOS     | 02-GZD-115-1 | 115             | 13.8            | 20               | 4.88   | 16.52 | 5.05  | 17.46 | 4.89                    | 16.70 | 5.06  | 17.60 |
| Oriente  | Teziutlan   | 02-MTT-115 | MARTINEZ DE LA TORRE III | 02-MTT-115-1 | 115             | 13.8            | 20               | 4.87   | 12.72 | 5.14  | 14.26 | 4.90                    | 13.07 | 5.16  | 14.58 |
| Oriente  | Cordoba     | 02-CSE-115 | COSCOMATEPEC             | 02-CSE-115-1 | 115             | 13.8            | 20               | 4.90   | 15.17 | 5.10  | 16.37 | 4.91                    | 15.49 | 5.12  | 16.63 |
| Oriente  | Poza Rica   | 02-CDO-115 | CERRO AZUL DOS           | 02-CDO-115-1 | 115             | 13.8            | 20               | 4.95   | 13.19 | 5.20  | 14.89 | 4.96                    | 13.28 | 5.20  | 14.77 |
| Oriente  | Coahuila    | 02-ADD-115 | AGUA DULCE DOS           | 02-ADD-115-1 | 115             | 13.8            | 20               | 5.00   | 14.55 | 5.19  | 15.88 | 5.00                    | 14.59 | 5.20  | 15.92 |
| Oriente  | Cordoba     | 02-PTD-115 | POTERO DOS               | 02-PTD-115-1 | 115             | 13.8            | 20               | 5.00   | 13.55 | 5.16  | 15.06 | 5.02                    | 13.81 | 5.17  | 15.29 |
| Oriente  | Papaloapan  | 02-TBL-115 | TIERRA BLANCA DOS        | 02-TBL-115-2 | 115             | 13.8            | 20               | 4.92   | 12.45 | 5.17  | 14.03 | 5.02                    | 13.15 | 5.25  | 14.67 |
| Oriente  | Teziutlan   | 02-TZT-115 | TEZIUTLAN                | 02-TZT-115-2 | 115             | 13.8            | 20               | 5.02   | 16.34 | 5.15  | 17.34 | 5.06                    | 17.12 | 5.18  | 17.93 |
| Oriente  | Xalapa      | 02-RNA-115 | RENAJERO                 | 02-RNA-115-1 | 115             | 13.8            | 20               | 5.03   | 15.25 | 5.21  | 16.67 | 5.04                    | 15.23 | 5.27  | 17.25 |
| Oriente  | Teziutlan   | 02-VGS-115 | VIGAS II                 | 02-VGS-115-1 | 115             | 13.8            | 20               | 5.02   | 14.51 | 5.25  | 15.82 | 5.08                    | 15.41 | 5.29  | 16.57 |
| Oriente  | Teziutlan   | 02-TZD-115 | TEZIUTLAN II             | 02-TZD-115-1 | 115             | 13.8            | 20               | 5.06   | 15.74 | 5.22  | 16.85 | 5.10                    | 16.39 | 5.25  | 17.37 |
| Oriente  | Poza Rica   | 02-AGF-69  | AGUA FRIA                | 02-AGF-69-1  | 69              | 13.8            | 20               | 4.98   | 6.70  | 5.61  | 8.04  | 5.11                    | 6.69  | 5.72  | 8.06  |
| Oriente  | Orizaba     | 02-ZGL-115 | ZONGOLICA                | 02-ZGL-115-1 | 115             | 13.8            | 20               | 5.01   | 14.96 | 5.26  | 16.19 | 5.13                    | 16.42 | 5.35  | 17.37 |
| Oriente  | Poza Rica   | 02-NLI-115 | NAGUAL DOS               | 02-NLI-115-1 | 115             | 13.8            | 20               | 5.07   | 15.46 | 5.28  | 16.66 | 5.19                    | 15.85 | 5.30  | 16.97 |
| Oriente  | Orizaba     | 02-NGL-115 | NOGALES                  | 02-NGL-115-1 | 115             | 13.8            | 20               | 5.17   | 15.46 | 5.28  | 16.66 | 5.19                    | 15.85 | 5.30  | 16.97 |
| Oriente  | Poza Rica   | 02-CHI-115 | CHICONTEPEC              | 02-CHI-115-1 | 115             | 13.8            | 20               | 5.19   | 10.07 | 5.63  | 11.67 | 5.19                    | 10.11 | 5.64  | 11.72 |
| Oriente  | Teziutlan   | 02-PEE-115 | PEROTE II                | 02-PEE-115-1 | 115             | 13.8            | 20               | 5.11   | 14.74 | 5.33  | 16.02 | 5.19                    | 15.92 | 5.39  | 16.99 |
| Oriente  | Poza Rica   | 02-PAP-115 | PAPANTLA DISTRIBUCION    | 02-PAP-115-1 | 115             | 13.8            | 20               | 5.16   | 17.67 | 5.28  | 18.34 | 5.20                    | 18.00 | 5.31  | 18.59 |
| Oriente  | Poza Rica   | 02-GR1-115 | GARIBAYANOS              | 02-GR1-115-1 | 115             | 13.8            | 20               | 5.16   | 15.32 | 5.26  | 16.17 | 5.18                    | 15.32 | 5.27  | 16.18 |
| Oriente  | Papaloapan  | 02-GRT-115 | GRANJA TRES              | 02-GRT-115-2 | 115             | 13.8            | 20               | 5.10   | 16.66 | 5.22  | 17.59 | 5.21                    | 18.01 | 5.30  | 18.60 |
| Oriente  | Coahuila    | 02-MIU-115 | MINATITLAN UNO           | 02-MIU-115-3 | 115             | 13.8            | 20               | 5.20   | 17.22 | 5.32  | 18.01 | 5.22                    | 17.51 | 5.33  | 18.23 |
| Oriente  | Orizaba     | 02-NGL-115 | NOGALES                  | 02-NGL-115-2 | 115             | 13.8            | 20               | 5.22   | 15.42 | 5.34  | 16.63 | 5.24                    | 15.82 | 5.35  | 16.95 |
| Oriente  | Poza Rica   | 02-BVL-115 | BUENA VISTA              | 02-BVL-115-1 | 115             | 13.8            | 20               | 5.21   | 15.49 | 5.37  | 16.66 | 5.26                    | 15.81 | 5.41  | 16.91 |
| Oriente  | Poza Rica   | 02-ED1-115 | EDUARDO DOS              | 02-ED1-115-1 | 115             | 13.8            | 20               | 5.23   | 15.78 | 5.43  | 16.71 | 5.26                    | 15.84 | 5.44  | 16.96 |
| Oriente  | Poza Rica   | 02-GBA-115 | GABINO BARREDA           | 02-GBA-115-1 | 115             | 13.8            | 20               | 5.25   | 16.71 | 5.37  | 17.63 | 5.30                    | 17.27 | 5.40  | 18.05 |
| Oriente  | Coahuila    | 02-PFR-115 | PUERTO FRANCO            | 02-PFR-115-2 | 115             | 13.8            | 20               | 5.30   | 16.56 | 5.40  | 17.52 | 5.32                    | 16.79 | 5.41  | 17.70 |
| Oriente  | Coahuila    | 02-ACY-115 | ACAYUCAN                 | 02-ACY-115-2 | 115             | 13.8            | 20               | 5.30   | 16.60 | 5.41  | 17.55 | 5.32                    | 17.00 | 5.42  | 17.85 |
| Oriente  | Coahuila    | 02-NND-115 | NANHCITAL DOS            | 02-NND-115-2 | 115             | 13.8            | 20               | 5.30   | 16.22 | 5.42  | 17.25 | 5.33                    | 16.47 | 5.43  | 17.45 |
| Oriente  | Coahuila    | 02-LSL-115 | LAS LAGUNAS DOS          | 02-LSL-115-2 | 115             | 13.8            | 20               | 5.31   | 15.82 | 5.46  | 16.66 | 5.36                    | 16.24 | 5.47  | 17.27 |
| Oriente  | Coahuila    | 02-LME-115 | LOPEZ MATEOS             | 02-LME-115-2 | 115             | 13.8            | 20               | 5.31   | 17.56 | 5.39  | 18.27 | 5.33                    | 17.82 | 5.41  | 18.46 |
| Oriente  | Coahuila    | 02-LME-115 | LOPEZ MATEOS             | 02-LME-115-1 | 115             | 13.8            | 20               | 5.32   | 17.56 | 5.41  | 18.27 | 5.34                    | 17.81 | 5.42  | 18.46 |
| Oriente  | Papaloapan  | 02-CAC-115 | CARLOS A. CARRILLO       | 02-CAC-115-1 | 115             | 13.8            | 20               | 5.28   | 10.53 | 5.59  | 12.24 | 5.36                    | 11.06 | 5.64  | 12.76 |
| Oriente  | Coahuila    | 02-MIU-115 | MINATITLAN UNO           | 02-MIU-115-1 | 115             | 34.5            | 40               | 5.39   | 14.12 | 5.71  | 19.45 | 5.44                    | 14.61 | 5.75  | 15.87 |
| Oriente  | Veracruz    | 02-FRY-115 | FRAMBOYANOS              | 02-FRY-115-1 | 115             | 13.8            | 30               | 5.39   | 19.55 | 5.63  | 21.99 | 5.74                    | 19.07 | 6.16  | 18.65 |
| Oriente  | Teziutlan   | 02-MDD-115 | MARTINEZ DE LA TORRE II  | 02-MDD-115-1 | 115             | 13.8            | 20               | 5.44   | 11.99 | 5.77  | 13.58 | 5.48                    | 12.37 | 5.80  | 13.94 |
| Oriente  | Coahuila    | 02-NND-115 | NANHCITAL DOS            | 02-NND-115-1 | 115             | 34.5            | 40               | 5.43   | 12.53 | 5.74  | 14.08 | 5.49                    | 12.89 | 5.78  | 14.41 |
| Oriente  | Cordoba     | 02-COR-115 | CORDOBA UNO              | 02-COR-115-1 | 115             | 13.8            | 20               | 5.42   | 17.34 | 5.62  | 18.11 | 5.43                    | 17.80 | 5.63  | 18.45 |
| Oriente  | Veracruz    | 02-FRY-115 | FRAMBOYANOS              | 02-FRY-115-1 | 115             | 13.8            | 30               | 8.15   | 16.72 | 8.31  | 17.64 | 8.26                    | 18.02 | 8.39  | 18.61 |
| Oriente  | Teziutlan   | 02-TZT-115 | TEZIUTLAN                | 02-TZT-115-2 | 115             | 13.8            | 20               | 5.52   | 19.45 | 5.67  | 21.99 | 5.74                    | 19.07 | 6.16  | 18.65 |
| Oriente  | Veracruz    | 02-IFN-115 | INFONAVIT                | 02-IFN-115-1 | 115             | 13.8            | 30               | 8.67   | 15.64 | 8.89  | 16.80 | 8.84                    | 17.24 | 9.01  | 18.03 |
| Oriente  | Papaloapan  | 02-TBL-115 | TIERRA BLANCA DOS        | 02-TBL-115-1 | 115             | 13.8            | 20               | 5.45   | 11.96 | 5.77  | 13.57 | 5.58                    | 12.67 | 5.86  | 14.23 |
| Oriente  | Orizaba     | 02-FOR-115 | FORTIN                   | 02-FOR-115-2 | 115             | 13.8            | 20               | 5.46   | 17.75 | 5.65  | 18.41 | 5.58                    | 18.24 | 5.66  | 18.76 |
| Oriente  | Coahuila    | 02-CHD-115 | CHIHUAMACA DOS           | 02-CHD-115-3 | 115             | 13.8            | 20               | 5.60   | 18.49 | 5.67  | 19.95 | 5.63                    | 18.88 | 5.68  | 19.23 |
| Oriente  | Papaloapan  | 02-IFN-115 | INFONAVIT                | 02-IFN-115-2 | 115             | 13.8            | 12.5             | 5.60   | 9.16  | 6.20  | 10.66 | 5.72                    | 9.39  | 6.28  | 10.89 |
| Oriente  | Veracruz    | 02-IFN-115 | INFONAVIT                | 02-IFN-115-2 | 115             | 13.8            | 40               | 10.19  | 15.07 | 10.49 | 16.33 | 10.41                   | 16.83 | 10.65 | 17.71 |
| Oriente  | Cordoba     | 02-COR-115 | CORDOBA UNO              | 02-COR-115-2 | 115             | 13.8            | 20               | 5.79   | 17.23 | 5.90  | 18.02 | 5.81                    | 17.71 | 5.92  | 18.38 |
| Oriente  | Cordoba     | 02-CBS-115 | CORDOBA DOS              | 02-CBS-115-2 | 115             | 13.8            | 20               | 5.97   | 17.44 | 6.07  | 18.18 | 5.99                    | 17.97 | 6.09  | 18.57 |
| Oriente  | Papaloapan  | 02-LSL-115 | LSLA                     | 02-LSL-115-1 | 115             | 13.8            | 12.5             | 6.00   | 8.89  | 6.58  | 10.46 | 6.04                    | 9.02  | 6.61  | 10.60 |
| Oriente  | Coahuila    | 02-ECM-115 | ESCAMELA                 | 02-ECM-115-1 | 115             | 13.8            | 20               | 6.12   | 15.15 | 6.18  | 16.28 | 6.12                    | 15.15 | 6.18  | 16.28 |
| Oriente  | Orizaba     | 02-ECM-115 | ESCAMELA                 | 02-ECM-115-2 | 115             | 13.8            | 20               | 6.12   | 16.83 | 6.26  | 17.72 | 6.15                    | 17.33 | 6.28  | 18.10 |
| Oriente  | Orizaba     | 02-FOR-115 | FORTIN                   | 02-FOR-115-1 | 115             | 13.8            | 20               | 6.24   | 17.51 | 6.35  | 18.24 | 6.26                    | 18.04 | 6.37  | 18.62 |
| Oriente  | Poza Rica   | 02-ESF-115 | ESFUERZO                 | 02-ESF-115-1 | 115             | 13.8            | 30               | 6.50   | 10.83 | 7.04  | 12.41 | 6.52                    | 10.92 | 7.06  | 12.50 |
| Oriente  | Poza Rica   | 02-TUD-115 | TUXPAN DOS               | 02-TUD-115-1 | 115             | 13.8            | 30               | 6.63   | 10.71 | 7.17  | 12.31 | 6.65                    | 10.80 | 7.18  | 12.39 |
| Oriente  | Xalapa      | 02-COR-115 | CORDOBA UNO              | 02-COR-115-1 | 115             | 13.8            | 20               | 6.93   | 15.01 | 7.07  | 16.33 | 7.07                    | 16.33 | 7.50  | 14.99 |
| Oriente  | Xalapa      | 02-TRN-115 | LAS TRANCAS              | 02-TRN-115-1 | 115             | 13.8            | 30               | 7.29   | 13.99 | 7.65  | 15.38 | 7.33                    | 14.67 | 7.68  | 15.95 |
| Oriente  | Veracruz    | 02-JBL-115 | J. B. LOBOS              | 02-JBL-115-2 | 115             | 13.8            | 30               | 8.14   | 15.74 | 8.36  | 16.86 | 8.28                    | 17.20 | 8.46  | 18.00 |
| Oriente  | Veracruz    | 02-JBL-115 | J. B. LOBOS              | 02-JBL-115-1 | 115             | 13.8            | 30               | 11.36  | 14.52 | 11.79 | 15.85 | 11.63                   | 16.28 | 11.98 | 17.28 |
| Oriente  | Poza Rica   | 02-CZM-115 | CAZONES                  | 02-CZM-11    |                 |                 |                  |  |       |       |       |                         |       |       |       |



Niveles de corto circuito de media tensión en las GRD,  
correspondientes al año 2020



NOTA: Con base a niveles de corto circuito de la Red Nacional de Transmisión 2020, publicado por el CENACE en Diciembre 2017

| División   | Zona         | Acronimo   | Subestación           | Banco        | Tensión A (kV) | Tensión MT (kV) | Capacidad en MVA | Corriente de corto circuito (kA), y relación X/R |       |      |       |                         |       |      |       |
|------------|--------------|------------|-----------------------|--------------|----------------|-----------------|------------------|--|-------|------|-------|-------------------------|-------|------|-------|
|            |              |            |                       |              |                |                 |                  | Nivel de CC mínimo 2020                          |       |      |       | Nivel de CC máximo 2020 |       |      |       |
|            |              |            |                       |              |                |                 |                  | 3F   | X/R   | 1F   | X/R   | 3F                      | X/R   | 1F   | X/R   |
| Peninsular | Chetumal     | 08-LAC-115 | LAZARO CARDENAS       | 08-LAC-115-1 | 115            | 34.5            | 9.375            | 1.15   | 9.70  | 1.21 | 11.45 | 1.17                    | 11.57 | 1.23 | 13.26 |
| Peninsular | Tizimin      | 08-PPH-115 | POPOLNAH              | 08-PPH-115-1 | 115            | 34.5            | 9.375            | 1.26   | 11.78 | 1.32 | 13.44 | 1.27                    | 12.69 | 1.33 | 14.27 |
| Peninsular | Campeche     | 08-HOP-115 | HOPOL CHEN II         | 08-HOP-115-1 | 115            | 34.5            | 9.375            | 1.48   | 13.23 | 1.50 | 16.88 | 1.50                    | 7.43  | 8.79 | 8.79  |
| Peninsular | Campeche     | 08-XPU-115 | XPUJIL                | 08-XPU-115-1 | 115            | 34.5            | 20               | 1.60   | 10.10 | 1.77 | 11.60 | 1.64                    | 12.53 | 1.80 | 13.92 |
| Peninsular | Riviera Maya | 08-TUM-115 | TULUM                 | 08-TUM-115-1 | 115            | 34.5            | 30               | 1.66   | 9.85  | 1.77 | 11.57 | 1.68                    | 10.72 | 1.78 | 12.42 |
| Peninsular | Ticul        | 08-KBL-115 | KAMBUL                | 08-KBL-115-1 | 115            | 34.5            | 20               | 1.70   | 7.60  | 1.87 | 9.12  | 1.75                    | 8.88  | 1.91 | 10.47 |
| Peninsular | Tizimin      | 08-TZM-115 | TIZIMIN               | 08-TZM-115-1 | 115            | 34.5            | 12.5             | 1.75   | 13.00 | 1.83 | 14.94 | 1.77                    | 13.80 | 1.85 | 15.24 |
| Peninsular | Campeche     | 08-CYL-115 | GAYAL                 | 08-CYL-115-2 | 115            | 34.5            | 20               | 1.80   | 9.01  | 1.95 | 10.64 | 1.94                    | 10.67 | 1.98 | 12.00 |
| Peninsular | Riviera Maya | 08-PCN-115 | S.E. PLAYA DEL CARMEN | 08-PCN-115-5 | 115            | 34.5            | 30               | 1.88   | 13.82 | 1.93 | 15.33 | 1.91                    | 16.54 | 1.94 | 17.51 |
| Peninsular | Riviera Maya | 08-PCN-115 | S.E. PLAYA DEL CARMEN | 08-PCN-115-6 | 115            | 34.5            | 30               | 1.88   | 13.82 | 1.93 | 15.33 | 1.91                    | 16.54 | 1.94 | 17.51 |
| Peninsular | Chetumal     | 08-XUL-115 | XUL-HA                | 08-XUL-115-8 | 115            | 34.5            | 20               | 1.85   | 10.30 | 1.94 | 12.05 | 1.94                    | 15.09 | 2.01 | 16.33 |
| Peninsular | Campeche     | 08-CMO-115 | CHAMPOTON             | 08-CMO-115-1 | 115            | 34.5            | 20               | 1.91   | 10.45 | 2.01 | 12.19 | 1.95                    | 12.73 | 2.04 | 14.31 |
| Peninsular | Campeche     | 08-SAM-115 | SAMULA                | 08-SAM-115-3 | 115            | 34.5            | 20               | 2.00   | 11.67 | 2.08 | 13.38 | 2.05                    | 14.39 | 2.11 | 15.77 |
| Peninsular | Tizimin      | 08-VDD-115 | VALLADOLID            | 08-VDD-115-1 | 115            | 34.5            | 20               | 2.01   | 15.81 | 2.07 | 16.92 | 2.06                    | 17.73 | 2.10 | 18.39 |
| Peninsular | Cancun       | 08-BNP-115 | S.E. BONAMPACK        | 08-BNP-115-2 | 115            | 34.5            | 20               | 2.05   | 13.27 | 2.09 | 14.86 | 2.09                    | 16.79 | 2.12 | 17.70 |
| Peninsular | Campeche     | 08-CYL-115 | GAYAL                 | 08-CYL-115-1 | 115            | 34.5            | 20               | 2.08   | 8.31  | 2.28 | 9.87  | 2.13                    | 9.64  | 2.32 | 11.24 |
| Peninsular | Merida       | 08-KOP-115 | KOPE                  | 08-KOP-115-1 | 115            | 34.5            | 20               | 2.16   | 11.71 | 2.27 | 13.36 | 2.17                    | 12.35 | 2.28 | 13.95 |
| Peninsular | Chetumal     | 08-XUL-115 | XUL-HA                | 08-XUL-115-5 | 115            | 34.5            | 20               | 2.15   | 9.53  | 2.28 | 11.26 | 2.29                    | 14.47 | 2.38 | 15.80 |
| Peninsular | Ticul        | 08-MAX-115 | MAXCANU               | 08-MAX-115-1 | 115            | 34.5            | 20               | 2.26   | 10.83 | 2.48 | 12.55 | 2.39                    | 12.00 | 2.50 | 13.64 |
| Peninsular | Ticul        | 08-TKD-115 | TEKAX II              | 08-TKD-115-1 | 115            | 34.5            | 30               | 2.36   | 8.77  | 2.68 | 10.37 | 2.51                    | 9.92  | 2.72 | 11.54 |
| Peninsular | Ticul        | 08-MAX-115 | MAXCANU               | 08-MAX-115-2 | 115            | 33.8            | 6.25             | 2.50   | 14.72 | 2.55 | 16.07 | 2.51                    | 15.61 | 2.56 | 16.79 |
| Peninsular | Merida       | 08-ADN-115 | MERIDA ORIENTE        | 08-ADN-115-2 | 115            | 34.5            | 20               | 2.51   | 14.19 | 2.56 | 15.95 | 2.54                    | 16.80 | 2.58 | 17.48 |
| Peninsular | Moult        | 08-IZL-115 | IZAMAL II             | 08-IZL-115-1 | 115            | 34.5            | 30               | 2.51   | 9.17  | 2.73 | 10.78 | 2.55                    | 9.77  | 2.76 | 11.40 |
| Peninsular | Cancun       | 08-NIZ-115 | S.E. NIZUC            | 08-NIZ-115-4 | 115            | 34.5            | 20               | 2.53   | 12.88 | 2.60 | 14.51 | 2.60                    | 16.99 | 2.64 | 17.85 |
| Peninsular | Riviera Maya | 08-AKD-115 | AKUMAL DOS            | 08-AKD-115-1 | 115            | 34.5            | 30               | 2.60   | 8.66  | 2.80 | 10.33 | 2.64                    | 9.90  | 2.83 | 11.57 |
| Peninsular | Merida       | 08-IGN-115 | SAN IGNACIO           | 08-IGN-115-1 | 115            | 34.5            | 30               | 2.92   | 14.53 | 3.03 | 16.87 | 2.96                    | 16.08 | 3.05 | 17.12 |
| Peninsular | Riviera Maya | 08-TIU-115 | TICUL I               | 08-TIU-115-2 | 115            | 34.5            | 30               | 3.23   | 12.83 | 3.03 | 14.82 | 3.02                    | 14.36 | 3.13 | 15.73 |
| Peninsular | Campeche     | 08-SBY-115 | SBANCUY II            | 08-SBY-115-1 | 115            | 34.5            | 20               | 2.94   | 7.11  | 3.23 | 8.60  | 3.10                    | 10.41 | 3.36 | 12.02 |
| Peninsular | Campeche     | 08-ESA-115 | ESCARCEGA POTENCIA    | 08-ESA-115-2 | 115            | 34.5            | 20               | 3.00   | 10.61 | 3.51 | 12.30 | 3.41                    | 14.69 | 3.59 | 15.94 |
| Peninsular | Ticul        | 08-KBL-115 | KAMBUL                | 08-KBL-115-2 | 115            | 33.8            | 20               | 3.96   | 7.92  | 4.33 | 9.48  | 4.08                    | 9.22  | 4.42 | 10.84 |
| Peninsular | Merida       | 08-NTE-115 | NORTE                 | 08-NTE-115-6 | 115            | 33.8            | 4.00             | 4.26   | 12.87 | 4.36 | 14.66 | 4.32                    | 13.83 | 4.40 | 15.07 |
| Peninsular | Ticul        | 08-TXM-115 | TIXMEHUAC             | 08-TXM-115-2 | 115            | 33.8            | 20               | 4.28   | 9.50  | 4.70 | 11.06 | 4.34                    | 10.41 | 4.74 | 11.97 |
| Peninsular | Tizimin      | 08-SAE-115 | SAN PEDRO             | 08-SAE-115-1 | 115            | 33.8            | 20               | 4.36   | 12.18 | 4.75 | 13.64 | 4.46                    | 13.09 | 4.82 | 14.48 |
| Peninsular | Campeche     | 08-HCE-115 | HECELCHAKAN           | 08-HCE-115-1 | 115            | 33.8            | 20               | 4.46   | 10.08 | 4.74 | 11.78 | 4.52                    | 11.15 | 4.79 | 12.82 |
| Peninsular | Chetumal     | 08-CTE-115 | CHETUMAL NORTE        | 08-CTE-115-1 | 115            | 33.8            | 20               | 4.57   | 8.96  | 4.86 | 10.88 | 4.80                    | 12.47 | 5.04 | 14.06 |
| Peninsular | Riviera Maya | 08-PLV-115 | SAN JUAN              | 08-PLV-115-1 | 115            | 33.8            | 20               | 4.58   | 13.87 | 4.86 | 15.93 | 4.80                    | 13.24 | 4.90 | 17.25 |
| Peninsular | Tizimin      | 08-SUC-115 | SUCILA                | 08-SUC-115-1 | 115            | 33.8            | 20               | 4.76   | 11.67 | 5.05 | 13.29 | 4.80                    | 12.48 | 5.08 | 13.77 |
| Peninsular | Tizimin      | 08-TZM-115 | TIZIMIN               | 08-TZM-115-3 | 115            | 33.8            | 20               | 4.75   | 12.63 | 4.98 | 14.20 | 4.81                    | 13.45 | 5.03 | 14.93 |
| Peninsular | Campeche     | 08-AKI-115 | AHKIMPECH             | 08-AKI-115-1 | 115            | 33.8            | 20               | 4.76   | 11.01 | 4.97 | 12.76 | 4.86                    | 13.06 | 5.04 | 14.62 |
| Peninsular | Tizimin      | 08-CEX-115 | CEMEX                 | 08-CEX-115-1 | 115            | 33.8            | 20               | 4.77   | 11.32 | 5.08 | 12.95 | 4.88                    | 12.53 | 5.17 | 14.08 |
| Peninsular | Merida       | 08-KOP-115 | KOPE                  | 08-KOP-115-2 | 115            | 33.8            | 20               | 4.87   | 12.03 | 5.13 | 13.72 | 4.93                    | 13.12 | 5.12 | 14.33 |
| Peninsular | Campeche     | 08-KAL-115 | KALA                  | 08-KAL-115-2 | 115            | 33.8            | 20               | 4.83   | 11.87 | 5.01 | 13.56 | 4.93                    | 14.48 | 5.09 | 15.85 |
| Peninsular | Tizimin      | 08-DZI-115 | DZITAS                | 08-DZI-115-1 | 115            | 33.8            | 20               | 4.85   | 11.92 | 5.13 | 13.53 | 4.94                    | 12.80 | 5.20 | 14.33 |
| Peninsular | Tizimin      | 08-TZM-115 | TIZIMIN               | 08-TZM-115-2 | 115            | 33.8            | 20               | 4.96   | 12.43 | 5.21 | 14.02 | 5.02                    | 13.26 | 5.26 | 14.75 |
| Peninsular | Chetumal     | 08-INS-115 | INSURGENTES           | 08-INS-115-2 | 115            | 33.8            | 20               | 4.78   | 8.80  | 5.10 | 10.90 | 5.03                    | 12.97 | 5.29 | 13.96 |
| Peninsular | Merida       | 08-ADN-115 | MERIDA ORIENTE        | 08-ADN-115-1 | 115            | 33.8            | 20               | 5.28   | 14.22 | 5.42 | 16.22 | 5.32                    | 14.83 | 5.43 | 16.86 |
| Peninsular | Cancun       | 08-PMO-115 | S.E. PUERTO MORELOS   | 08-PMO-115-1 | 115            | 33.8            | 20               | 5.12   | 14.15 | 5.25 | 15.59 | 5.18                    | 17.02 | 5.29 | 17.87 |
| Peninsular | Cancun       | 08-PMU-115 | S.E. PLAYA MUJERES    | 08-PMU-115-1 | 115            | 33.8            | 20               | 5.17   | 12.56 | 5.33 | 14.21 | 5.27                    | 15.48 | 5.40 | 16.67 |
| Peninsular | Chetumal     | 08-PYU-115 | POLYUC                | 08-PYU-115-2 | 115            | 33.8            | 12.5             | 5.12   | 5.97  | 5.85 | 7.18  | 5.31                    | 6.91  | 6.02 | 8.24  |
| Peninsular | Campeche     | 08-CKD-115 | CALKINI DOS           | 08-CKD-115-1 | 115            | 33.8            | 20               | 5.28   | 8.99  | 5.65 | 11.27 | 5.34                    | 10.53 | 5.70 | 12.20 |
| Peninsular | Merida       | 08-ATQ-115 | ATUNTICAN             | 08-ATQ-115-1 | 115            | 33.8            | 20               | 5.28   | 12.78 | 5.65 | 14.88 | 5.58                    | 13.24 | 5.83 | 14.84 |
| Peninsular | Cancun       | 08-BNP-115 | S.E. BONAMPACK        | 08-BNP-115-3 | 115            | 33.8            | 20               | 5.38   | 13.05 | 5.50 | 14.67 | 5.50                    | 16.66 | 5.58 | 17.60 |
| Peninsular | Riviera Maya | 08-XLC-115 | XCALCOCO (XLC)        | 08-XLC-115-1 | 115            | 33.8            | 20               | 5.45   | 13.48 | 5.62 | 15.01 | 5.52                    | 16.28 | 5.67 | 17.29 |
| Peninsular | Cancun       | 08-NIZ-115 | S.E. NIZUC            | 08-NIZ-115-3 | 115            | 33.8            | 20               | 5.42   | 13.58 | 5.53 | 15.12 | 5.54                    | 17.38 | 5.62 | 18.14 |
| Peninsular | Campeche     | 08-CMO-115 | CHAMPOTON             | 08-CMO-115-2 | 115            | 33.8            | 20               | 5.54   | 9.70  | 5.88 | 11.42 | 5.67                    | 12.01 | 5.98 | 13.63 |
| Peninsular | Campeche     | 08-LRA-115 | LERMA                 | 08-LRA-115-1 | 115            | 33.8            | 12.5             | 5.58   | 9.24  | 5.85 | 10.51 | 5.72                    | 11.22 | 6.03 | 12.12 |
| Peninsular | Campeche     | 08-LRA-115 | LERMA                 | 08-LRA-115-5 | 115            | 33.8            | 12.5             | 5.77   | 12.16 | 5.98 | 13.83 | 5.93                    | 15.74 | 6.10 | 16.87 |
| Peninsular | Ticul        | 08-TIU-115 | TICUL I               | 08-TIU-115-1 | 115            | 33.8            | 20               | 5.89   | 13.63 | 6.07 | 15.14 | 5.95                    | 15.28 | 6.11 | 16.50 |
| Peninsular | Campeche     | 08-KAL-115 | KALA                  | 08-KAL-115-1 | 115            | 33.8            | 20               | 5.83   | 10.94 | 6.10 | 12.68 | 5.99                    | 13.68 | 6.21 | 15.15 |
| Peninsular | Carmen       | 08-CRE-115 | CARMEN                | 08-CRE-115-3 | 115            | 33.8            | 30               | 5.80   | 5.35  | 6.34 | 6.55  | 6.21                    | 8.75  | 6.83 | 10.30 |
| Peninsular | Cancun       | 08-KAB-115 | S.E. KABAH            | 08-KAB-115-1 | 115            | 33.8            | 20               | 5.79   | 12.18 | 5.81 | 13.81 | 5.81                    | 16.87 | 5.92 | 18.04 |
| Peninsular | Moult        | 08-SDM-115 | SANTO DOMINGO         | 08-SDM-115-1 | 115            | 33.8            | 12.5             | 6.28   | 10.80 | 6.80 | 12.38 | 6.32                    | 11.10 | 6.83 | 12.68 |
| Peninsular | Carmen       | 08-CRE-115 | CARMEN                | 08-CRE-115-2 | 115            | 33.8            | 30               | 6.89   | 5.15  | 6.71 | 6.30  | 6.57                    | 8.47  | 7.27 | 9.98  |
| Peninsular | Chetumal     | 08-CTE-115 | CHETUMAL NORTE        | 08-CTE-115-2 | 115            | 33.8            | 30               | 6.27   | 7.42  | 6.85 | 8.96  | 6.72                    | 10.83 | 7.19 | 12.47 |
| Peninsular | Merida       | 08-CNO-115 | CENTRO                | 08-CNO-115-2 | 115            | 33.8            | 30               | 6.88   | 14.30 | 7.04 | 15.72 | 6.99                    | 16.53 | 7.12 | 17.50 |
| Peninsular | Riviera Maya | 08-TUN-115 | S.E. TUNICHEN         | 08-TUN-115-1 | 115            | 33.8            | 30               | 6.97   | 12.81 | 7.46 | 14.54 | 7.04                    | 15.83 | 7.14 | 17.22 |
| Peninsular | Merida       | 08-PPO-115 | PUERTO PROGRESO       | 08-PPO-115-1 | 115            | 33.8            | 30               | 7.07   | 12.32 | 7.45 | 13.91 | 7.15                    | 13.37 | 7.41 | 14.84 |
| Peninsular | Cancun       | 08-KHU-115 | S.E. KOHUNLICH        | 08-KHU-115-1 | 115            | 33.8            | 30               | 7.14   | 10.35 | 7.50 | 12.10 | 7.33                    | 13.07 | 7.63 | 14.62 |
| Peninsular | Campeche     | 08-SAD-115 | SAMULA DOS            | 08-SAD-115-1 | 115            | 33.8            | 30               | 7.09   | 9.78  | 7.54 | 11.50 | 7.33                    | 12.54 | 7.72 | 14.11 |
| Peninsular | Riviera Maya | 08-MYK-115 | MAYACOBRA             | 08-MYK-115-1 | 115            | 33.8            | 30               | 7.22   | 11.66 | 7.54 | 13.35 | 7.34                    | 14.68 | 7.63 | 15.99 |
| Peninsular | Campeche     | 08-NCM-115 | NACHICOCOM            | 08-NCM-115-1 | 115            | 33.8            | 30               | 7.23   | 11.84 | 7.58 | 13.72 | 7.48                    | 14.72 | 7.46 | 18.02 |
| Peninsular | Merida       | 08-CBR-115 | CHUBURNA              | 08-CBR-115-1 | 115            | 33.8            | 30               | 7.23   | 13.91 | 7.53 | 15.38 | 7.44                    | 15.91 | 7.61 | 17.01 |
| Peninsular | Campeche     | 08-SAM-115 | SAMULA                | 08-SAM-115-2 | 115            | 33.8            | 30               | 7.28   | 9.80  | 7.71 | 11.54 | 7.53                    | 12.71 | 7.90 | 14.28 |
| Peninsular | Merida       | 08-HOL-115 | CHOLLUL               | 08-HOL-115-1 | 115            | 33.8            | 30               | 7.43   | 14.14 | 7.62 | 16.58 | 7.54                    | 16.15 | 7.69 | 17.21 |
| Peninsular | Carmen       | 08-LTE-115 | LAGUNA DE TERMINOS    | 08-LTE-115-1 | 115            | 33.8            | 40               | 6.88   | 4.47  | 7.81 | 8.42  | 7.56                    | 7.24  | 8.58 | 8.58  |
| Peninsular | Cancun       | 08-SAM-115 | SAMULA                | 08-SAM-115-2 | 115            | 33.8            | 30               | 7.31   | 12.78 | 7.75 | 15.01 | 7.57</                  |       |      |       |

Niveles de corto circuito de media tensión en las GRD, correspondientes al año 2020



NOTA: Con base a niveles de corto circuito de la Red Nacional de Transmisión 2020, publicado por el CENACE en Diciembre 2017

| División  | Zona          | Acronimo   | Subestación            | Banco        | Tensión A (kV) | Tensión MT (kV) | Capacidad en MVA | Corriente de corto circuito (kA), y relación X/R |       |      |       |                         |       |      |       |
|-----------|---------------|------------|------------------------|--------------|----------------|-----------------|------------------|--|-------|------|-------|-------------------------|-------|------|-------|
|           |               |            |                        |              |                |                 |                  | Nivel de CC mínimo 2020                          |       |      |       | Nivel de CC máximo 2020 |       |      |       |
|           |               |            |                        |              |                |                 |                  | 3F   | X/R   | 1F   | X/R   | 3F                      | X/R   | 1F   | X/R   |
| Sureste   | Tehuantepec   | 02-THT-115 | TEHUANTEPEC            | 02-THT-115-2 | 115            | 34.5            | 9.375            | 1.20   | 15.18 | 1.24 | 16.42 | 1.21                    | 15.51 | 1.24 | 16.68 |
| Sureste   | Oaxaca        | 02-IXJ-115 | IXTLAN DE JUAREZ       | 02-IXJ-115-2 | 115            | 34.5            | 9.375            | 1.22   | 13.25 | 1.27 | 14.77 | 1.22                    | 13.41 | 1.27 | 14.90 |
| Sureste   | Oaxaca        | 02-EDJ-115 | EDIFORNOS              | 02-EDJ-115-2 | 115            | 34.5            | 9.375            | 1.28   | 13.37 | 1.31 | 14.90 | 1.24                    | 13.85 | 1.31 | 15.05 |
| Sureste   | San cristobal | 02-FCM-115 | FRONTERA COMALAPA      | 02-FCM-115-1 | 115            | 34.5            | 20               | 1.34   | 7.35  | 1.54 | 8.61  | 1.35                    | 7.67  | 1.56 | 8.96  |
| Sureste   | San cristobal | 02-OCO-115 | OCOSINGO               | 02-OCO-115-1 | 115            | 34.5            | 20               | 1.39   | 6.82  | 1.59 | 8.11  | 1.40                    | 6.91  | 1.59 | 8.22  |
| Sureste   | San cristobal | 02-TNI-115 | TRINITARIA             | 02-TNI-115-1 | 115            | 34.5            | 20               | 1.46   | 7.50  | 1.65 | 8.88  | 1.47                    | 7.70  | 1.66 | 9.11  |
| Sureste   | Tuxtla        | 02-JUY-115 | JUY-JUY                | 02-JUY-115-2 | 115            | 34.5            | 9.375            | 1.47   | 18.53 | 1.49 | 18.98 | 1.48                    | 18.94 | 1.49 | 19.27 |
| Sureste   | Oaxaca        | 02-XXD-115 | OAXACA DOS             | 02-XXD-115-3 | 115            | 34.5            | 9.375            | 1.49   | 14.07 | 1.53 | 15.51 | 1.49                    | 14.32 | 1.54 | 15.71 |
| Sureste   | San cristobal | 02-CJT-115 | COMITAN                | 02-CJT-115-1 | 115            | 34.5            | 20               | 1.53   | 7.60  | 1.71 | 9.03  | 1.54                    | 7.82  | 1.72 | 9.27  |
| Sureste   | San cristobal | 02-OCX-115 | OXCHUC                 | 02-OCX-115-1 | 115            | 34.5            | 20               | 1.58   | 7.86  | 1.76 | 9.34  | 1.59                    | 8.00  | 1.76 | 9.49  |
| Sureste   | VillaHermosa  | 02-PCO-115 | PICHUICALCO            | 02-PCO-115-1 | 115            | 34.5            | 20               | 1.72   | 9.75  | 1.86 | 11.38 | 1.72                    | 9.89  | 1.86 | 11.52 |
| Sureste   | Oaxaca        | 02-MTX-115 | MITLA                  | 02-MTX-115-2 | 115            | 34.5            | 20               | 1.76   | 8.78  | 1.94 | 10.31 | 1.76                    | 8.89  | 1.94 | 10.42 |
| Sureste   | Huajuapán     | 02-TLH-69  | TLAPA                  | 02-TLH-69-1  | 69             | 13.8            | 6.25             | 1.89   | 4.58  | 2.15 | 5.65  | 1.87                    | 4.62  | 2.14 | 5.68  |
| Sureste   | San cristobal | 02-SCO-115 | SAN CRISTOBAL ORIENTE  | 02-SCO-115-2 | 115            | 34.5            | 20               | 1.86   | 10.04 | 1.99 | 11.70 | 1.87                    | 10.30 | 2.00 | 11.96 |
| Sureste   | Huajuapán     | 02-HUA-69  | HUAUTLAN               | 02-HUA-69-1  | 69             | 13.8            | 20               | 1.92   | 2.04  | 2.52 | 2.35  | 1.91                    | 2.06  | 2.50 | 2.37  |
| Sureste   | San cristobal | 02-CRI-115 | SAN CRISTOBAL          | 02-CRI-115-1 | 115            | 34.5            | 12.5             | 1.96   | 11.62 | 2.07 | 13.27 | 1.97                    | 11.98 | 2.07 | 13.61 |
| Sureste   | Los Rios      | 02-ZPD-115 | ZAPATA DOS             | 02-ZPD-115-1 | 115            | 34.5            | 20               | 1.98   | 15.10 | 2.05 | 16.33 | 2.00                    | 17.11 | 2.07 | 17.91 |
| Sureste   | Tehuantepec   | 02-SAC-115 | SALINA CRUZ UNO        | 02-SAC-115-2 | 115            | 34.5            | 20               | 2.01   | 14.37 | 2.09 | 15.71 | 2.01                    | 14.73 | 2.10 | 16.01 |
| Sureste   | Tuxtla        | 02-GIA-115 | GRUJALVA               | 02-GIA-115-1 | 115            | 34.5            | 20               | 2.02   | 14.62 | 2.09 | 15.95 | 2.03                    | 15.14 | 2.10 | 16.38 |
| Sureste   | VillaHermosa  | 02-TPJ-115 | TAPULALAPA             | 02-TPJ-115-1 | 115            | 13.8            | 6.25             | 2.08   | 12.98 | 2.16 | 14.54 | 2.08                    | 13.11 | 2.16 | 14.65 |
| Sureste   | Chontalpa     | 02-CDN-115 | CARDENAS UNO           | 02-CDN-115-1 | 115            | 34.5            | 20               | 2.08   | 16.93 | 2.12 | 17.80 | 2.08                    | 17.24 | 2.12 | 18.03 |
| Sureste   | Los Rios      | 02-ZOP-115 | EL ZOPHO               | 02-ZOP-115-1 | 115            | 34.5            | 12.5             | 2.09   | 14.83 | 2.17 | 16.12 | 2.11                    | 15.60 | 2.18 | 16.75 |
| Sureste   | Tehuantepec   | 02-IBD-115 | LIBERTAD MEXICANA      | 02-IBD-115-1 | 115            | 13.8            | 6.25             | 2.15   | 13.37 | 2.23 | 15.70 | 2.17                    | 14.65 | 2.23 | 15.98 |
| Sureste   | Tuxtla        | 02-IPD-115 | INDEPENDENCIA          | 02-IPD-115-1 | 115            | 13.8            | 6.25             | 2.20   | 15.49 | 2.26 | 16.68 | 2.21                    | 15.91 | 2.27 | 17.01 |
| Sureste   | Huajuapán     | 02-CUX-115 | CUICATLAN              | 02-CUX-115-1 | 115            | 13.8            | 6.25             | 2.32   | 10.36 | 2.48 | 12.03 | 2.32                    | 10.43 | 2.48 | 12.11 |
| Sureste   | Huajuapán     | 02-SMF-115 | SAN MIGUEL SANTA FLOR  | 02-SMF-115-1 | 115            | 13.8            | 6.25             | 2.33   | 9.62  | 2.53 | 11.23 | 2.33                    | 9.68  | 2.54 | 11.28 |
| Sureste   | VillaHermosa  | 02-VIP-115 | VILLAHERMOSA PONIENTE  | 02-VIP-115-2 | 115            | 34.5            | 20               | 2.38   | 16.96 | 2.42 | 17.83 | 2.38                    | 17.39 | 2.42 | 18.14 |
| Sureste   | VillaHermosa  | 02-IBM-115 | IBIQUILLO              | 02-IBM-115-1 | 115            | 13.8            | 6.25             | 2.48   | 10.78 | 2.48 | 11.85 | 2.49                    | 10.93 | 2.49 | 11.08 |
| Sureste   | Huajuapán     | 02-TXI-115 | TLAXIACO               | 02-TXI-115-1 | 115            | 13.8            | 9.375            | 2.46   | 8.26  | 2.72 | 9.77  | 2.46                    | 8.30  | 2.73 | 9.82  |
| Sureste   | Tuxtla        | 02-MPE-115 | MALPASO TRES           | 02-MPE-115-1 | 115            | 13.8            | 6.25             | 2.59   | 18.10 | 2.63 | 18.67 | 2.59                    | 18.17 | 2.63 | 18.71 |
| Sureste   | VillaHermosa  | 02-TTB-115 | TEAPA                  | 02-TTB-115-2 | 115            | 13.8            | 9.375            | 2.59   | 14.15 | 2.67 | 15.58 | 2.59                    | 14.34 | 2.67 | 15.73 |
| Sureste   | Tuxtla        | 02-SOY-115 | SOVALO                 | 02-SOY-115-1 | 115            | 13.8            | 7.5              | 2.60   | 16.40 | 2.65 | 17.40 | 2.61                    | 16.69 | 2.66 | 17.62 |
| Sureste   | Huajuapán     | 02-SMJ-115 | SIMJOVEL               | 02-SMJ-115-1 | 115            | 13.8            | 9.375            | 2.64   | 9.31  | 2.89 | 10.89 | 2.65                    | 9.49  | 2.89 | 10.97 |
| Sureste   | Tapachula     | 02-AVA-115 | ACACAOYAGUA            | 02-AVA-115-1 | 115            | 13.8            | 7.5              | 2.70   | 13.20 | 2.80 | 14.74 | 2.72                    | 14.02 | 2.82 | 15.45 |
| Sureste   | Huajuapán     | 02-TAD-115 | TAMAZULAPAN DOS        | 02-TAD-115-1 | 115            | 13.8            | 9.375            | 2.83   | 9.98  | 3.04 | 11.65 | 2.84                    | 10.06 | 3.04 | 11.72 |
| Sureste   | Tapachula     | 02-CCL-69  | CECILIO DEL VALLE      | 02-CCL-69-6  | 69             | 13.8            | 7.5              | 2.73   | 15.59 | 3.00 | 16.56 | 2.87                    | 18.49 | 3.12 | 18.88 |
| Sureste   | Tapachula     | 02-SAL-115 | SAN SALVADOR           | 02-SAL-115-1 | 115            | 13.8            | 6.25             | 2.85   | 10.94 | 3.03 | 12.70 | 2.87                    | 10.86 | 3.03 | 12.77 |
| Sureste   | Huajuapán     | 02-SSM-115 | SSAN LUIS MORELIA      | 02-SSM-115-1 | 115            | 13.8            | 9.375            | 2.90   | 7.68  | 3.23 | 9.15  | 2.90                    | 7.71  | 3.23 | 9.18  |
| Sureste   | Oaxaca        | 02-MHT-115 | MIAHUATLAN             | 02-MHT-115-2 | 115            | 13.8            | 9.375            | 2.90   | 10.44 | 3.09 | 12.13 | 2.91                    | 10.57 | 3.09 | 12.26 |
| Sureste   | Los Rios      | 02-PLQ-115 | PALENOQUE              | 02-PLQ-115-1 | 115            | 13.8            | 9.375            | 2.91   | 12.07 | 3.07 | 13.67 | 2.93                    | 12.79 | 3.09 | 14.32 |
| Sureste   | Huajuapán     | 02-ITU-115 | ITUNDUIJA              | 02-ITU-115-1 | 115            | 13.8            | 20               | 2.98   | 6.50  | 3.53 | 7.59  | 2.98                    | 6.53  | 3.53 | 7.62  |
| Sureste   | Tapachula     | 02-PMC-115 | PANQUILO               | 02-PMC-115-1 | 115            | 13.8            | 6.25             | 3.01   | 10.76 | 3.01 | 11.76 | 3.00                    | 10.93 | 3.01 | 11.05 |
| Sureste   | VillaHermosa  | 02-TCT-115 | TACOTALPA              | 02-TCT-115-1 | 115            | 13.8            | 9.375            | 2.99   | 12.20 | 3.13 | 13.82 | 2.99                    | 12.36 | 3.13 | 13.97 |
| Sureste   | Oaxaca        | 02-MHT-115 | MIAHUATLAN             | 02-MHT-115-1 | 115            | 13.8            | 9.375            | 3.01   | 10.25 | 3.21 | 11.94 | 3.02                    | 10.39 | 3.21 | 12.07 |
| Sureste   | Huajuapán     | 02-TCX-115 | TECOMAXTLAHUACA        | 02-TCX-115-1 | 115            | 13.8            | 20               | 3.03   | 6.60  | 3.56 | 7.72  | 3.03                    | 6.62  | 3.56 | 7.75  |
| Sureste   | Tehuantepec   | 02-STD-115 | SANTO DOMINGO          | 02-STD-115-2 | 115            | 13.8            | 9.375            | 3.04   | 14.20 | 3.15 | 15.60 | 3.06                    | 14.83 | 3.16 | 15.92 |
| Sureste   | Tapachula     | 02-TCT-115 | TACOTALPA              | 02-TCT-115-1 | 115            | 13.8            | 9.375            | 3.07   | 12.07 | 3.17 | 13.70 | 3.08                    | 12.27 | 3.18 | 13.49 |
| Sureste   | VillaHermosa  | 02-TCT-115 | TACOTALPA              | 02-TCT-115-2 | 115            | 13.8            | 9.375            | 3.07   | 12.07 | 3.22 | 13.70 | 3.08                    | 12.27 | 3.23 | 13.84 |
| Sureste   | Oaxaca        | 02-MTX-115 | MITLA                  | 02-MTX-115-1 | 115            | 13.8            | 9.375            | 3.09   | 10.54 | 3.31 | 12.19 | 3.09                    | 10.66 | 3.31 | 12.30 |
| Sureste   | Tehuantepec   | 02-SAC-115 | SALINA CRUZ UNO        | 02-SAC-115-3 | 115            | 13.8            | 9.375            | 3.10   | 16.09 | 3.19 | 17.14 | 3.11                    | 16.37 | 3.20 | 17.36 |
| Sureste   | Tehuantepec   | 02-THT-115 | TEHUANTEPEC            | 02-THT-115-1 | 115            | 13.8            | 9.375            | 3.12   | 15.03 | 3.22 | 16.30 | 3.13                    | 15.37 | 3.23 | 16.57 |
| Sureste   | Huajuapán     | 02-MAP-115 | MAPASTEPEC             | 02-MAP-115-1 | 115            | 13.8            | 9.375            | 3.12   | 8.26  | 3.44 | 9.54  | 3.13                    | 8.30  | 3.44 | 9.59  |
| Sureste   | Tapachula     | 02-MAP-115 | MAPASTEPEC             | 02-MAP-115-1 | 115            | 13.8            | 9.375            | 3.12   | 13.81 | 3.23 | 15.27 | 3.15                    | 14.57 | 3.25 | 15.91 |
| Sureste   | San cristobal | 02-FLM-115 | FLORES MAGON           | 02-FLM-115-1 | 115            | 13.8            | 9.375            | 3.14   | 14.26 | 3.25 | 15.65 | 3.15                    | 14.76 | 3.26 | 16.07 |
| Sureste   | Chontalpa     | 02-COM-115 | COMALCALCO             | 02-COM-115-1 | 115            | 34.5            | 30               | 3.15   | 14.67 | 3.26 | 15.98 | 3.16                    | 15.04 | 3.27 | 16.29 |
| Sureste   | Huatuco       | 02-PUE-115 | PUERTO ESCONDIDO       | 02-PUE-115-1 | 115            | 13.8            | 9.375            | 3.15   | 6.10  | 3.53 | 7.43  | 3.16                    | 6.20  | 3.53 | 7.54  |
| Sureste   | Tuxtla        | 02-IPD-115 | INDEPENDENCIA          | 02-IPD-115-2 | 115            | 13.8            | 9.375            | 3.15   | 14.12 | 3.28 | 15.52 | 3.17                    | 14.61 | 3.29 | 15.93 |
| Sureste   | Tuxtla        | 02-IPD-115 | INDEPENDENCIA          | 02-IPD-115-2 | 115            | 13.8            | 9.375            | 3.16   | 14.12 | 3.28 | 15.52 | 3.17                    | 14.61 | 3.29 | 15.93 |
| Sureste   | Chontalpa     | 02-PEB-115 | PEITAS DOS             | 02-PEB-115-1 | 115            | 13.8            | 6.25             | 3.17   | 15.41 | 3.27 | 16.60 | 3.18                    | 15.50 | 3.27 | 16.67 |
| Sureste   | Chontalpa     | 02-MEZ-115 | MEZCALAPA              | 02-MEZ-115-1 | 115            | 13.8            | 9.375            | 3.19   | 16.48 | 3.26 | 17.46 | 3.19                    | 16.62 | 3.26 | 17.56 |
| Sureste   | Tapachula     | 02-MAZ-115 | MAZATAN                | 02-MAZ-115-1 | 115            | 13.8            | 9.375            | 3.18   | 14.77 | 3.28 | 16.08 | 3.21                    | 15.59 | 3.30 | 16.74 |
| Sureste   | Tehuantepec   | 02-IXP-115 | IXTEPEC                | 02-IXP-115-2 | 115            | 13.8            | 9.375            | 3.27   | 10.44 | 3.74 | 10.67 | 3.28                    | 10.74 | 3.74 | 10.90 |
| Sureste   | Chontalpa     | 02-HMG-115 | HUIMANGUILLO           | 02-HMG-115-1 | 115            | 13.8            | 9.375            | 3.23   | 15.89 | 3.30 | 17.00 | 3.23                    | 16.02 | 3.30 | 17.10 |
| Sureste   | Los Rios      | 02-ZPD-115 | ZAPATA DOS             | 02-ZPD-115-2 | 115            | 13.8            | 9.375            | 3.21   | 16.50 | 3.29 | 17.47 | 3.24                    | 18.02 | 3.31 | 18.60 |
| Sureste   | Tuxtla        | 02-CIT-115 | CINTALAPA              | 02-CIT-115-1 | 115            | 13.8            | 9.375            | 3.25   | 15.69 | 3.34 | 16.83 | 3.26                    | 16.05 | 3.34 | 17.11 |
| Sureste   | Tapachula     | 02-AYA-115 | ACACAOYAGUA            | 02-AYA-115-2 | 115            | 13.8            | 9.375            | 3.25   | 12.34 | 3.40 | 13.96 | 3.29                    | 13.20 | 3.43 | 14.73 |
| Sureste   | Tuxtla        | 02-CIT-115 | CINTALAPA              | 02-CIT-115-2 | 115            | 13.8            | 9.375            | 3.27   | 15.67 | 3.37 | 16.81 | 3.29                    | 16.02 | 3.37 | 17.09 |
| Sureste   | San cristobal | 02-AAA-115 | ACALA                  | 02-AAA-115-1 | 115            | 13.8            | 9.375            | 3.29   | 14.75 | 3.40 | 16.07 | 3.31                    | 15.17 | 3.41 | 16.41 |
| Sureste   | Tuxtla        | 02-JUY-115 | JUY-JUY                | 02-JUY-115-1 | 115            | 13.8            | 9.375            | 3.31   | 18.66 | 3.35 | 19.37 | 3.32                    | 19.04 | 3.35 | 19.34 |
| Sureste   | Tuxtla        | 02-OCZ-115 | OCZOCCOAUTLA           | 02-OCZ-115-2 | 115            | 13.8            | 9.375            | 3.32   | 16.31 | 3.39 | 17.32 | 3.33                    | 16.66 | 3.34 | 17.59 |
| Sureste   | San cristobal | 02-FCM-115 | FRONTERA COMALAPA      | 02-FCM-115-2 | 115            | 13.8            | 20               | 3.31   | 3.99  | 3.82 | 8.66  | 3.34                    | 7.72  | 3.85 | 9.02  |
| Sureste   | Los Rios      | 02-RSD-115 | RISORSA DOS            | 02-RSD-115-1 | 115            | 13.8            | 9.375            | 3.35   | 9.23  | 3.41 | 10.31 | 3.35                    | 9.32  | 3.42 | 10.54 |
| Sureste   | Huatuco       | 02-RSD-115 | SANTA ROSA             | 02-RSD-115-1 | 115            | 13.8            | 12.5             | 3.39   | 5.06  | 3.89 | 6.16  | 3.40                    | 5.16  | 3.90 | 6.28  |
| Sureste   | San cristobal | 02-CRI-115 | SAN CRISTOBAL          | 02-CRI-115-2 | 115            | 13.8            | 9.375            | 3.45   | 13.26 | 3.58 | 14.80 | 3.47                    | 13.60 | 3.59 | 15.09 |
| Sureste   | Oaxaca        | 02-JTL-115 | SAN JACINTO TLACOTEPEC | 02-JTL-115-1 | 115            | 13.8            | 20               | 3.48   | 9.33  | 3.97 | 10.70 | 3.48                    | 9.45  | 3.98 | 10.81 |
| Sureste</ |               |            |                        |              |                |                 |                  |  |       |      |       |                         |       |      |       |

Niveles de corto circuito de media tensión en las RGD,  
correspondientes al año 2020



NOTA: Con base a niveles de corto circuito de la Red Nacional de Transmisión 2020, publicado por el CENACE en Diciembre 2017

| División               | Zona           | Acronimo   | Subestación           | Banco         | Tensión AV (kV) | Tensión MT (kV) | Capacidad en MVA | Corriente de corto circuito (kA), y relación X/R |       |       |       |                         |       |       |       |
|------------------------|----------------|------------|-----------------------|---------------|-----------------|-----------------|------------------|--|-------|-------|-------|-------------------------|-------|-------|-------|
|                        |                |            |                       |               |                 |                 |                  | Nivel de CC mínimo 2020                          |       |       |       | Nivel de CC máximo 2020 |       |       |       |
|                        |                |            |                       |               |                 |                 |                  | 3F   | X/R   | 1F    | X/R   | 3F                      | X/R   | 1F    | X/R   |
| Sureste                | Chontalpa      | 02-PSO-115 | PARAISO               | 02-PSO-115-2  | 115             | 13.8            | 20               | 5.18   | 15.69 | 5.34  | 16.82 | 5.19                    | 15.99 | 5.34  | 17.06 |
| Sureste                | Tapachula      | 02-BDC-115 | BELISARIO DOMINGUEZ   | 02-BDC-115-4  | 115             | 13.8            | 20               | 5.13   | 12.93 | 5.35  | 14.50 | 5.20                    | 14.28 | 5.40  | 15.66 |
| Sureste                | Chontalpa      | 02-CAO-115 | REBEL BOSQUE          | 02-CAO-115-1  | 115             | 13.8            | 20               | 5.31   | 16.69 | 5.43  | 17.61 | 5.32                    | 17.18 | 5.33  | 17.99 |
| Sureste                | Chontalpa      | 02-CAO-115 | COMALCALCO ORIENTE    | 02-CAO-115-1  | 115             | 13.8            | 20               | 5.31   | 16.69 | 5.43  | 17.61 | 5.32                    | 17.03 | 5.44  | 17.87 |
| Sureste                | Tehuantepec    | 02-MRO-115 | MATIAS ROMERO         | 02-MRO-115-1  | 115             | 13.8            | 20               | 5.30   | 15.15 | 5.47  | 16.38 | 5.34                    | 15.74 | 5.50  | 16.86 |
| Sureste                | Chontalpa      | 02-CAO-115 | COMALCALCO ORIENTE    | 02-CAO-115-2  | 115             | 13.8            | 20               | 5.36   | 16.66 | 5.49  | 17.58 | 5.37                    | 17.00 | 5.50  | 17.85 |
| Sureste                | Oaxaca         | 02-EX-115  | ETLA                  | 02-EX-115-1   | 115             | 13.8            | 20               | 5.43   | 10.78 | 5.76  | 12.46 | 5.44                    | 10.98 | 5.77  | 12.65 |
| Sureste                | Chontalpa      | 02-CMU-115 | COMALCALCO SUR        | 02-CMU-115-1  | 115             | 13.8            | 20               | 5.46   | 14.82 | 5.63  | 15.96 | 5.47                    | 15.86 | 5.64  | 16.15 |
| Sureste                | Oaxaca         | 02-OAX-115 | OAXACA UNO            | 02-OAX-115-1  | 115             | 13.8            | 20               | 5.48   | 11.30 | 5.79  | 12.96 | 5.49                    | 11.54 | 5.80  | 13.19 |
| Sureste                | Los Rios       | 02-MCD-115 | MACUSPANA DOS         | 02-MCD-115-3  | 115             | 13.8            | 20               | 5.48   | 17.99 | 5.57  | 18.58 | 5.51                    | 18.95 | 5.59  | 19.27 |
| Sureste                | Tapachula      | 02-TCH-115 | TAPACHULA             | 02-TCH-115-2  | 115             | 13.8            | 20               | 5.46   | 12.04 | 5.91  | 13.64 | 5.69                    | 13.37 | 5.98  | 14.84 |
| Sureste                | San cristóbal  | 02-CRI-115 | SAN CRISTOBAL         | 02-CRI-115-3  | 115             | 13.8            | 20               | 5.71   | 10.87 | 6.08  | 12.53 | 5.75                    | 11.23 | 6.11  | 12.88 |
| Sureste                | Chontalpa      | 02-CMU-115 | TULIPAN               | 02-CMU-115-1  | 115             | 13.8            | 20               | 5.79   | 14.40 | 5.98  | 15.77 | 5.90                    | 14.88 | 5.99  | 15.92 |
| Sureste                | Chontalpa      | 02-COM-115 | COMALCALCO            | 02-COM-115-2  | 115             | 13.8            | 20               | 6.04   | 15.63 | 6.21  | 16.78 | 6.05                    | 15.96 | 6.22  | 17.04 |
| Sureste                | Oaxaca         | 02-SFO-115 | SAN FELIPE OAXACA     | 02-SFO-115-1  | 115             | 13.8            | 30               | 6.53   | 10.49 | 6.99  | 12.15 | 6.55                    | 10.73 | 7.01  | 12.38 |
| Sureste                | Chontalpa      | 02-JAA-115 | JALPA                 | 02-JAA-115-1  | 115             | 13.8            | 30               | 6.84   | 15.24 | 6.84  | 16.45 | 6.62                    | 15.58 | 6.85  | 16.73 |
| Sureste                | Oaxaca         | 02-OAX-115 | OAXACA UNO            | 02-OAX-115-2  | 115             | 13.8            | 30               | 6.62   | 10.35 | 7.09  | 12.02 | 6.84                    | 10.60 | 7.10  | 12.25 |
| Sureste                | Chontalpa      | 02-CHT-115 | CHONTALPA             | 02-CHT-115-1  | 115             | 13.8            | 30               | 6.76   | 11.23 | 7.24  | 12.84 | 6.78                    | 11.40 | 7.25  | 13.00 |
| Sureste                | Tapachula      | 02-TCH-115 | TAPACHULA             | 02-TCH-115-1  | 115             | 13.8            | 30               | 6.70   | 11.16 | 7.16  | 12.79 | 6.84                    | 12.53 | 7.26  | 14.06 |
| Sureste                | Tapachula      | 02-TAE-115 | TAPACHULA AEROPUERTO  | 02-TAE-115-1  | 115             | 13.8            | 30               | 6.97   | 12.71 | 7.31  | 14.27 | 7.08                    | 14.25 | 7.40  | 15.61 |
| Sureste                | Tehuantepec    | 02-JUC-115 | JUCHITAN UNO          | 02-JUC-115-1  | 115             | 13.8            | 30               | 7.05   | 14.77 | 7.34  | 16.05 | 7.16                    | 15.80 | 7.42  | 16.89 |
| Sureste                | Villa Hermosa  | 02-MIC-115 | MACULTEPEC            | 02-MIC-115-1  | 115             | 13.8            | 30               | 7.15   | 13.70 | 7.46  | 15.15 | 7.18                    | 14.07 | 7.48  | 15.47 |
| Sureste                | Villa Hermosa  | 02-TGU-115 | TUXTLA UNO            | 02-TGU-115-2  | 115             | 13.8            | 30               | 7.48   | 15.55 | 7.81  | 16.89 | 7.54                    | 16.12 | 7.73  | 17.43 |
| Sureste                | Villa Hermosa  | 02-VIH-115 | VILLAHERMOSA UNO      | 02-VIH-115-1  | 115             | 13.8            | 30               | 7.78   | 15.69 | 7.78  | 16.82 | 7.57                    | 16.25 | 7.80  | 17.26 |
| Sureste                | Chontalpa      | 02-CSU-115 | CARDENAS SUR          | 02-CSU-115-1  | 115             | 13.8            | 30               | 7.56   | 14.28 | 7.84  | 15.66 | 7.58                    | 14.58 | 7.85  | 15.91 |
| Sureste                | Chontalpa      | 02-CDN-115 | CARDENAS UNO          | 02-CDN-115-2  | 115             | 13.8            | 30               | 7.56   | 15.83 | 7.76  | 16.84 | 7.58                    | 16.23 | 7.78  | 17.25 |
| Sureste                | Villa Hermosa  | 02-TAT-115 | TAMULTE               | 02-TAT-115-2  | 115             | 13.8            | 30               | 7.64   | 16.97 | 7.80  | 17.83 | 7.66                    | 17.37 | 7.81  | 18.13 |
| Sureste                | Villa Hermosa  | 02-TAT-115 | TAMULTE               | 02-TAT-115-1  | 115             | 13.8            | 30               | 7.64   | 16.97 | 7.80  | 17.83 | 7.66                    | 17.37 | 7.81  | 18.13 |
| Sureste                | Villa Hermosa  | 02-VIP-115 | VILLAHERMOSA PONIENTE | 02-VIP-115-1  | 115             | 13.8            | 30               | 7.64   | 16.97 | 7.80  | 17.83 | 7.66                    | 17.37 | 7.81  | 18.13 |
| Sureste                | Villa Hermosa  | 02-PLL-115 | PARRILLA              | 02-PLL-115-1  | 115             | 13.8            | 30               | 7.68   | 17.41 | 7.83  | 18.16 | 7.72                    | 18.18 | 7.85  | 18.72 |
| Sureste                | Tuxtla         | 02-TXS-115 | TUXTLA SUR            | 02-TXS-115-1  | 115             | 13.8            | 30               | 7.68   | 17.00 | 7.87  | 17.85 | 7.74                    | 17.87 | 7.91  | 18.49 |
| Sureste                | Villa Hermosa  | 02-VHC-115 | VILLAHERMOSA CENTRO   | 02-VHC-115-1  | 115             | 13.8            | 30               | 7.72   | 16.04 | 7.90  | 17.11 | 7.74                    | 16.44 | 7.92  | 17.42 |
| Sureste                | Villa Hermosa  | 02-CIH-115 | CIUDAD INDUSTRIAL     | 02-CIH-115-1  | 115             | 13.8            | 30               | 7.72   | 16.04 | 7.90  | 17.11 | 7.74                    | 16.44 | 7.92  | 17.42 |
| Sureste                | Villa Hermosa  | 02-CIH-115 | CIUDAD INDUSTRIAL     | 02-CIH-115-1  | 115             | 13.8            | 30               | 7.77   | 16.50 | 7.95  | 17.47 | 7.80                    | 17.11 | 7.97  | 17.93 |
| Sureste                | Villa Hermosa  | 02-SYA-115 | SALVOYA               | 02-SYA-115-1  | 115             | 13.8            | 30               | 7.78   | 16.58 | 7.94  | 17.53 | 7.80                    | 17.12 | 7.96  | 17.94 |
| Sureste                | Villa Hermosa  | 02-VID-115 | VILLAHERMOSA DOS      | 02-VID-115-3  | 115             | 13.8            | 30               | 7.81   | 16.45 | 7.99  | 17.43 | 7.85                    | 17.13 | 8.02  | 17.94 |
| Sureste                | Tuxtla         | 02-TGD-115 | TUXTLA DOS            | 02-TGD-115-2  | 115             | 13.8            | 30               | 7.82   | 14.72 | 8.09  | 16.03 | 7.89                    | 15.47 | 8.14  | 16.64 |
| Sureste                | Villa Hermosa  | 02-TXN-115 | VILLAHERMOSA UNO      | 02-TXN-115-2  | 115             | 13.8            | 30               | 7.88   | 15.82 | 8.12  | 17.80 | 7.92                    | 16.12 | 8.14  | 17.43 |
| Sureste                | Villa Hermosa  | 02-TXN-115 | TUXTLA NORTE          | 02-TXN-115-1  | 115             | 13.8            | 30               | 7.87   | 15.65 | 8.11  | 16.79 | 7.94                    | 16.46 | 8.15  | 17.43 |
| Sureste                | Villa Hermosa  | 02-RFA-115 | REFORMA               | 02-RFA-115-1  | 115             | 13.8            | 30               | 7.98   | 16.31 | 8.22  | 17.30 | 7.99                    | 16.58 | 8.24  | 17.52 |
| Sureste                | Oaxaca         | 02-OXD-115 | OAXACA DOS            | 02-OXD-115-1  | 115             | 13.8            | 30               | 7.98   | 10.50 | 8.52  | 12.17 | 8.01                    | 10.79 | 8.55  | 12.45 |
| Sureste                | Villa Hermosa  | 02-CIH-115 | CIUDAD INDUSTRIAL     | 02-CIH-115-2  | 115             | 13.8            | 30               | 8.04   | 16.40 | 8.24  | 17.39 | 8.07                    | 17.03 | 8.26  | 17.87 |
| Sureste                | Villa Hermosa  | 02-LCH-115 | LA CHOCA              | 02-LCH-115-1  | 115             | 13.8            | 30               | 8.14   | 16.15 | 8.34  | 17.25 | 8.14                    | 16.43 | 8.26  | 18.09 |
| Sureste                | Villa Hermosa  | 02-VID-115 | VILLAHERMOSA DOS      | 02-VID-115-1  | 115             | 13.8            | 30               | 8.14   | 16.34 | 8.30  | 17.34 | 8.14                    | 17.04 | 8.33  | 17.87 |
| Sureste                | Villa Hermosa  | 02-PMC-115 | POMOCA                | 02-PMC-115-2  | 115             | 13.8            | 30               | 8.21   | 16.99 | 8.38  | 17.84 | 8.24                    | 17.64 | 8.40  | 18.33 |
| Sureste                | Villa Hermosa  | 02-TAT-115 | TAMULTE               | 02-TAT-115-10 | 115             | 13.8            | 30               | 8.23   | 16.78 | 8.41  | 17.68 | 8.25                    | 17.20 | 8.43  | 18.00 |
| Sureste                | Tuxtla         | 02-TGD-115 | TUXTLA DOS            | 02-TGD-115-1  | 115             | 13.8            | 30               | 8.34   | 14.46 | 8.65  | 15.81 | 8.42                    | 15.24 | 8.70  | 16.45 |
| Sureste                | Chontalpa      | 01-REV-115 | REYES                 | 02-REV-115-2  | 115             | 13.8            | 30               | 8.39   | 17.12 | 8.64  | 18.24 | 8.42                    | 17.62 | 8.66  | 18.29 |
| Sureste                | Tuxtla         | 02-TGU-115 | TUXTLA UNO            | 02-TGU-115-1  | 115             | 13.8            | 30               | 8.49   | 15.26 | 8.76  | 16.47 | 8.56                    | 16.08 | 8.82  | 17.12 |
| Sureste                | Villa Hermosa  | 02-VID-115 | VILLAHERMOSA DOS      | 02-VID-115-2  | 115             | 13.8            | 30               | 8.94   | 16.04 | 9.18  | 17.11 | 8.99                    | 16.78 | 9.21  | 17.68 |
| Sureste                | Villa Hermosa  | 02-LCH-115 | LA CHOCA              | 02-LCH-115-2  | 115             | 13.8            | 30               | 9.06   | 16.43 | 9.27  | 17.41 | 9.10                    | 17.05 | 9.30  | 17.88 |
| Sureste                | Tuxtla         | 02-MAA-115 | MACTUMATZA            | 02-MAA-115-1  | 115             | 13.8            | 30               | 10.39  | 13.86 | 10.85 | 15.29 | 10.50                   | 14.68 | 10.93 | 15.98 |
| Valle de México Centro | Polanco        | 01-MOS-85  | MORALES               | 01-MOS-85-2   | 85              | 23              | 10               | 2.24   | 18.35 | 2.26  | 18.85 | 2.26                    | 18.96 | 2.28  | 19.28 |
| Valle de México Centro | Polanco        | 01-MOS-85  | MORALES               | 01-MOS-85-2   | 85              | 23              | 10               | 2.24   | 18.35 | 2.26  | 18.85 | 2.26                    | 18.96 | 2.28  | 19.28 |
| Valle de México Centro | Polanco        | 01-MOS-85  | MORALES               | 01-MOS-85-3   | 85              | 23              | 12.5             | 2.87   | 17.94 | 2.91  | 18.55 | 2.91                    | 18.69 | 2.93  | 19.09 |
| Valle de México Centro | Polanco        | 01-MOS-85  | MORALES               | 01-MOS-85-3   | 85              | 23              | 12.5             | 2.88   | 17.93 | 2.92  | 18.55 | 2.91                    | 18.69 | 2.94  | 19.09 |
| Valle de México Centro | Polanco        | 01-MOS-85  | MORALES               | 01-MOS-85-3   | 85              | 23              | 12.5             | 2.89   | 17.92 | 2.92  | 18.54 | 2.91                    | 18.69 | 2.94  | 19.09 |
| Valle de México Centro | Polanco        | 01-HTC-85  | HUASTECA              | 01-HTC-85-1   | 85              | 23              | 30               | 3.22   | 17.04 | 3.28  | 17.88 | 3.27                    | 17.81 | 3.32  | 18.46 |
| Valle de México Centro | Polanco        | 01-HTC-85  | HUASTECA              | 01-HTC-85-2   | 85              | 23              | 30               | 3.22   | 17.04 | 3.28  | 17.88 | 3.27                    | 17.81 | 3.32  | 18.46 |
| Valle de México Centro | Polanco        | 01-HTC-85  | HUASTECA              | 01-HTC-85-2   | 85              | 23              | 30               | 3.24   | 17.03 | 3.30  | 17.87 | 3.29                    | 17.80 | 3.34  | 18.45 |
| Valle de México Centro | Polanco        | 01-HTC-85  | HUASTECA              | 01-HTC-85-4   | 85              | 23              | 30               | 3.24   | 17.03 | 3.30  | 17.87 | 3.29                    | 17.80 | 3.34  | 18.45 |
| Valle de México Centro | Nezahualcoyotl | 01-NET-85  | NEZAHUALCOYOTL        | 01-NET-85-4   | 85              | 23              | 30               | 3.41   | 16.18 | 3.40  | 16.94 | 3.44                    | 16.87 | 3.47  | 17.29 |
| Valle de México Centro | Polanco        | 01-NON-85  | NONALCO               | 01-NON-85-8   | 85              | 23              | 30               | 3.41   | 16.19 | 3.45  | 16.73 | 3.44                    | 16.97 | 3.47  | 17.29 |
| Valle de México Centro | Aeropuerto     | 01-MZA-85  | MOCTEZUMA             | 01-MZA-85-5   | 85              | 23              | 30               | 4.33   | 15.29 | 4.53  | 16.46 | 4.35                    | 15.54 | 4.54  | 16.66 |
| Valle de México Centro | Nezahualcoyotl | 01-PNT-85  | PANTITLAN             | 01-PNT-85-1   | 85              | 23              | 33.6             | 4.44   | 14.64 | 4.60  | 15.95 | 4.44                    | 14.90 | 4.60  | 16.17 |
| Valle de México Centro | Nezahualcoyotl | 01-PNT-85  | PANTITLAN             | 01-PNT-85-2   | 85              | 23              | 33.6             | 4.44   | 14.64 | 4.60  | 15.95 | 4.44                    | 14.90 | 4.60  | 16.17 |
| Valle de México Centro | Nezahualcoyotl | 01-PNT-85  | PANTITLAN             | 01-PNT-85-3   | 85              | 23              | 33.6             | 4.44   | 14.64 | 4.60  | 15.95 | 4.44                    | 14.90 | 4.60  | 16.17 |
| Valle de México Centro | Aeropuerto     | 01-MZA-85  | MOCTEZUMA             | 01-MZA-85-3   | 85              | 23              | 30               | 4.53   | 15.13 | 4.75  | 16.32 | 4.55                    | 15.38 | 4.77  | 16.53 |
| Valle de México Centro | Tacuba         | 01-TAC-85  | TACUBA                | 01-TAC-85-1   | 85              | 23              | 33.6             | 4.53   | 16.25 | 4.64  | 17.27 | 4.56                    | 16.97 | 4.66  | 17.83 |
| Valle de México Centro | Polanco        | 01-REF-85  | REFORMA               | 01-REF-85-1   | 85              | 23              | 30               | 4.60   | 14.77 | 4.76  | 16.07 | 4.62                    | 15.21 | 4.77  | 16.43 |
| Valle de México Centro | Polanco        | 01-REF-85  | REFORMA               | 01-REF-85-4   | 85              | 23              | 30               | 4.60   | 14.76 | 4.76  | 16.06 | 4.63                    | 15.20 | 4.78  | 16.42 |
| Valle de México Centro | Zocalo         | 01-INN-85  | INDIANILLA            | 01-INN-85-2   | 85              | 23              | 30               | 4.62   | 16.18 | 4.58  | 17.37 | 4.67                    | 16.22 | 4.77  | 18.02 |
| Valle de México Centro | Zocalo         | 01-INN-85  | INDIANILLA            | 01-INN-85-1   | 85              | 23              | 30               | 4.60   | 16.15 | 4.60  | 17.15 | 4.60                    | 17.24 | 4.80  | 18.01 |
| Valle de México Centro | Nezahualcoyotl | 01-NET-85  | NEZAHUALCOYOTL        | 01-NET-85-1   | 85              | 23              | 30               | 4.71   | 16.16 | 4.84  | 17.19 | 4.70                    | 16.45 | 4.84  | 17.42 |
| Valle de México Centro | Tacuba         | 01-TAC-85  | TACUBA                | 01-TAC-85-2   | 85              | 23              | 33.6             | 4.68   | 16.15 | 4.80  | 17.19 | 4.72                    | 16.88 | 4.82  | 17.76 |
| Valle de México Centro | Polanco        | 01-MOS-85  | MORALES               | 01-MOS-85-4   | 85              | 23              | 30               | 4.62   | 16.88 | 4.73  | 17.76 | 4.72                    | 17.97 | 4.80  | 18.57 |

Niveles de corto circuito de media tensión en las RGD,  
correspondientes al año 2020

| CFE Distribución       |               | NOTA: Con base a niveles de corto circuito de la Red Nacional de Transmisión 2020, publicado por el CENACE en Diciembre 2017 |                        |              |                |                 |                  |  |       |       |       |                         |       |       |       |
|------------------------|---------------|--|------------------------|--------------|----------------|-----------------|------------------|--|-------|-------|-------|-------------------------|-------|-------|-------|
| División               | Zona          | Acronimo   | Subestación            | Banco        | Tensión A (kV) | Tensión MT (kV) | Capacidad en MVA | Corriente de corto circuito (kA), y relación X/R |       |       |       |                         |       |       |       |
|                        |               |  |                        |              |                |                 |                  | Nivel de CC mínimo 2020                          |       |       |       | Nivel de CC máximo 2020 |       |       |       |
|                        |               |  |                        |              |                |                 |                  | 3F   | X/R   | 1F    | X/R   | 3F                      | X/R   | 1F    | X/R   |
| Valle de México Centro | Zocalo        | 01-CMC-230   | CUAUHTEMOC             | 01-CMC-230-3 | 230            | 23              | 60               | 11.70  | 17.23 | 11.91 | 18.02 | 11.75                   | 18.12 | 11.94 | 18.68 |
| Valle de México Centro | Benito Juárez | 01-COV-230   | COYOACAN               | 01-COV-230-2 | 230            | 23              | 60               | 11.75  | 16.30 | 11.95 | 17.33 | 11.79                   | 17.19 | 11.98 | 18.00 |
| Valle de México Centro | Benito Juárez | 01-COV-230   | COYOACAN               | 01-COV-230-3 | 230            | 23              | 60               | 11.75  | 16.30 | 11.95 | 17.33 | 11.79                   | 17.19 | 11.98 | 18.00 |
| Valle de México Centro | Benito Juárez | 01-NAR-230   | NARVARTE               | 01-NAR-230-1 | 230            | 23              | 60               | 11.99  | 15.84 | 12.21 | 16.97 | 12.03                   | 16.69 | 12.24 | 17.63 |
| Valle de México Centro | Benito Juárez | 01-NAR-230   | NARVARTE               | 01-NAR-230-2 | 230            | 23              | 60               | 11.99  | 15.84 | 12.21 | 16.97 | 12.03                   | 16.69 | 12.24 | 17.63 |
| Valle de México Centro | Aeropuerto    | 01-MER-230   | MERCED                 | 01-MER-230-1 | 230            | 23              | 60               | 11.98  | 16.40 | 12.25 | 17.39 | 12.07                   | 17.47 | 12.31 | 18.20 |
| Valle de México Centro | Benito Juárez | 01-TYA-230   | TACUBAYA               | 01-TYA-230-1 | 230            | 23              | 60               | 12.25  | 16.22 | 12.49 | 17.26 | 12.30                   | 17.14 | 12.52 | 17.96 |
| Valle de México Centro | Aeropuerto    | 01-MER-230   | MERCED                 | 01-MER-230-3 | 230            | 23              | 60               | 12.29  | 16.32 | 12.57 | 17.33 | 12.39                   | 17.41 | 12.64 | 18.15 |
| Valle de México Centro | Benito Juárez | 01-COV-230   | COYOACAN               | 01-COV-230-1 | 230            | 23              | 60               | 12.53  | 16.11 | 12.76 | 17.17 | 12.58                   | 17.04 | 12.80 | 17.88 |
| Valle de México Centro | Chapingo      | 01-AUR-230   | AURORA                 | 01-AUR-230-2 | 230            | 23              | 60               | 13.26  | 17.41 | 13.44 | 18.17 | 13.32                   | 18.37 | 13.48 | 18.86 |
| Valle de México Centro | Chapingo      | 01-AUR-230   | AURORA                 | 01-AUR-230-1 | 230            | 23              | 60               | 25.15  | 15.61 | 25.80 | 16.77 | 25.35                   | 17.13 | 25.94 | 17.94 |
| Valle de México Centro | Chapingo      | 01-AUR-230   | AURORA                 | 01-AUR-230-3 | 230            | 23              | 60               | 25.15  | 15.61 | 25.80 | 16.77 | 25.35                   | 17.13 | 25.94 | 17.94 |
| Valle de México Norte  | Ecatepec      | 01-VDM-85  | S.E. VALLE DE MEXICO   | 01-VDM-85-5  | 85             | 23              | 12.5             | 2.83   | 17.98 | 2.89  | 18.57 | 2.90                    | 19.36 | 2.94  | 19.55 |
| Valle de México Norte  | Tlalpantlilla | 01-CTG-230   | CARTAGENA              | 01-CTG-230-1 | 230            | 23              | 60               | 2.81   | 19.38 | 2.82  | 19.57 | 2.81                    | 19.62 | 2.82  | 19.74 |
| Valle de México Norte  | Ecatepec      | 01-VDM-85  | S.E. VALLE DE MEXICO   | 01-VDM-85-5  | 85             | 23              | 12.5             | 2.83   | 17.98 | 2.89  | 18.57 | 2.90                    | 19.36 | 2.94  | 19.55 |
| Valle de México Norte  | Ecatepec      | 01-VDM-85  | S.E. VALLE DE MEXICO   | 01-VDM-85-5  | 85             | 23              | 12.5             | 2.83   | 17.98 | 2.89  | 18.57 | 2.90                    | 19.36 | 2.94  | 19.55 |
| Valle de México Norte  | Ecatepec      | 01-VDM-85  | S.E. VALLE DE MEXICO   | 01-VDM-85-5  | 85             | 23              | 12.5             | 2.83   | 17.98 | 2.89  | 18.57 | 2.90                    | 19.36 | 2.94  | 19.55 |
| Valle de México Norte  | Ecatepec      | 01-VDM-85  | S.E. VALLE DE MEXICO   | 01-VDM-85-6  | 85             | 23              | 12.5             | 2.83   | 17.98 | 2.89  | 18.57 | 2.90                    | 19.36 | 2.94  | 19.55 |
| Valle de México Norte  | Ecatepec      | 01-VDM-85  | S.E. VALLE DE MEXICO   | 01-VDM-85-7  | 85             | 23              | 12.5             | 2.83   | 17.98 | 2.89  | 18.57 | 2.90                    | 19.36 | 2.94  | 19.55 |
| Valle de México Norte  | Tlalpantlilla | 01-CTG-230   | CARTAGENA              | 01-CTG-230-3 | 230            | 23              | 60               | 3.08   | 19.32 | 3.09  | 19.53 | 3.08                    | 19.59 | 3.09  | 19.71 |
| Valle de México Norte  | Basílica      | 01-LEC-85  | S.E. GUADALUPE         | 01-LEC-85-3  | 85             | 23              | 3.20             | 18.25  | 3.24  | 18.33 | 3.27  | 18.45                   | 3.28  | 18.77 |       |
| Valle de México Norte  | Cuautitlan    | 01-ZUM-85  | ZUMPANGO               | 01-ZUM-85-5  | 85             | 23              | 3.0              | 4.38   | 3.92  | 15.76 | 4.38  | 13.89                   | 3.92  | 15.84 |       |
| Valle de México Norte  | Cuautitlan    | 01-ZUM-85  | ZUMPANGO               | 01-ZUM-85-1  | 85             | 23              | 3.0              | 4.39   | 3.93  | 15.75 | 4.38  | 13.89                   | 3.92  | 15.84 |       |
| Valle de México Norte  | Cuautitlan    | 01-ZUM-85  | ZUMPANGO               | 01-ZUM-85-2  | 85             | 23              | 3.0              | 4.40   | 3.94  | 15.74 | 4.40  | 13.87                   | 3.94  | 15.83 |       |
| Valle de México Norte  | Basílica      | 01-INS-85  | S.E. INSURGENTES       | 01-INS-85-2  | 85             | 23              | 3.0              | 4.59   | 4.06  | 16.50 | 4.06  | 16.70                   | 4.06  | 17.37 |       |
| Valle de México Norte  | Tlalpantlilla | 01-LAQ-85  | LA QUEBRADA            | 01-LAQ-85-1  | 85             | 23              | 3.0              | 4.94   | 4.45  | 18.64 | 4.45  | 18.33                   | 4.45  | 19.03 |       |
| Valle de México Norte  | Tlalpantlilla | 01-LAQ-85  | LA QUEBRADA            | 01-LAQ-85-2  | 85             | 23              | 3.0              | 4.72   | 4.22  | 16.22 | 4.84  | 17.25                   | 4.74  | 16.82 |       |
| Valle de México Norte  | Basílica      | 01-PAT-85  | S.E. PATERA            | 01-PAT-85-2  | 85             | 23              | 3.0              | 4.75   | 4.13  | 17.30 | 4.76  | 16.18                   | 4.14  | 17.59 |       |
| Valle de México Norte  | Naucalpan     | 01-TEH-230   | TECAMACHALCO           | 01-TEH-230-2 | 230            | 23              | 60               | 4.76   | 18.38 | 4.79  | 18.88 | 4.76                    | 18.82 | 4.79  | 19.18 |
| Valle de México Norte  | Tlalpantlilla | 01-LOM-85  | LA LOMA                | 01-LOM-85-3  | 85             | 23              | 3.0              | 4.75   | 4.46  | 18.64 | 4.77  | 15.93                   | 4.90  | 17.01 |       |
| Valle de México Norte  | Tlalpantlilla | 01-LOM-85  | LA LOMA                | 01-LOM-85-4  | 85             | 23              | 3.0              | 4.78   | 4.20  | 17.30 | 4.82  | 16.38                   | 4.07  | 17.63 |       |
| Valle de México Norte  | Tlalpantlilla | 01-LOM-85  | LA LOMA                | 01-LOM-85-2  | 85             | 23              | 3.0              | 4.78   | 4.44  | 18.62 | 4.80  | 15.90                   | 4.94  | 17.00 |       |
| Valle de México Norte  | Basílica      | 01-GUA-85  | S.E. GUADALUPE         | 01-GUA-85-3  | 85             | 23              | 3.0              | 4.78   | 4.15  | 17.32 | 4.81  | 16.45                   | 4.17  | 17.78 |       |
| Valle de México Norte  | Atrazpan      | 01-LEC-85  | LECHERIA               | 01-LEC-85-1  | 85             | 23              | 3.0              | 4.85   | 4.15  | 18.31 | 4.87  | 15.92                   | 4.16  | 18.75 |       |
| Valle de México Norte  | Naucalpan     | 01-NAU-85  | NAUCALPAN              | 01-NAU-85-2  | 85             | 23              | 3.0              | 4.85   | 4.15  | 18.31 | 4.87  | 15.92                   | 4.16  | 18.75 |       |
| Valle de México Norte  | Basílica      | 01-GUA-85  | S.E. GUADALUPE         | 01-GUA-85-2  | 85             | 23              | 3.0              | 4.85   | 4.15  | 18.31 | 4.87  | 15.92                   | 4.16  | 18.75 |       |
| Valle de México Norte  | Naucalpan     | 01-CAR-85  | CAREAGA                | 01-CAR-85-2  | 85             | 23              | 3.0              | 4.90   | 4.16  | 18.69 | 4.21  | 17.95                   | 4.23  | 18.32 |       |
| Valle de México Norte  | Tlalpantlilla | 01-LOM-85  | LA LOMA                | 01-LOM-85-1  | 85             | 23              | 3.0              | 4.91   | 4.15  | 18.31 | 4.93  | 15.82                   | 4.07  | 18.03 |       |
| Valle de México Norte  | Atrazpan      | 01-LEC-85  | LECHERIA               | 01-LEC-85-2  | 85             | 23              | 3.0              | 4.93   | 4.15  | 18.31 | 4.95  | 15.89                   | 4.22  | 18.73 |       |
| Valle de México Norte  | Tlalpantlilla | 01-LAQ-85  | LA QUEBRADA            | 01-LAQ-85-1  | 85             | 23              | 3.0              | 4.94   | 4.16  | 18.69 | 4.21  | 17.95                   | 4.23  | 18.32 |       |
| Valle de México Norte  | Naucalpan     | 01-CAR-85  | CAREAGA                | 01-CAR-85-4  | 85             | 23              | 3.0              | 4.94   | 4.16  | 18.69 | 4.21  | 17.95                   | 4.23  | 18.32 |       |
| Valle de México Norte  | Basílica      | 01-PAT-85  | S.E. PATERA            | 01-PAT-85-4  | 85             | 23              | 3.0              | 4.97   | 4.16  | 18.69 | 4.21  | 17.95                   | 4.23  | 18.32 |       |
| Valle de México Norte  | Naucalpan     | 01-NAU-85  | NAUCALPAN              | 01-NAU-85-1  | 85             | 23              | 3.0              | 4.96   | 4.15  | 18.31 | 4.98  | 15.96                   | 4.28  | 19.00 |       |
| Valle de México Norte  | Naucalpan     | 01-NAU-85  | NAUCALPAN              | 01-NAU-85-3  | 85             | 23              | 3.0              | 4.96   | 4.15  | 18.31 | 4.98  | 15.96                   | 4.28  | 19.00 |       |
| Valle de México Norte  | Basílica      | 01-INS-85  | S.E. INSURGENTES       | 01-INS-85-1  | 85             | 23              | 3.0              | 4.95   | 4.16  | 18.69 | 4.21  | 17.95                   | 4.23  | 18.32 |       |
| Valle de México Norte  | Tlalpantlilla | 01-BAR-85  | BARRIENTOS             | 01-BAR-85-4  | 85             | 23              | 3.0              | 5.01   | 4.17  | 18.74 | 5.12  | 17.44                   | 5.03  | 17.02 |       |
| Valle de México Norte  | Basílica      | 01-GUA-85  | S.E. GUADALUPE         | 01-GUA-85-1  | 85             | 23              | 3.0              | 5.00   | 4.16  | 18.68 | 5.03  | 17.02                   | 5.13  | 17.86 |       |
| Valle de México Norte  | Atrazpan      | 01-LEC-85  | LECHERIA               | 01-LEC-85-3  | 85             | 23              | 3.0              | 5.11   | 4.15  | 18.24 | 5.13  | 17.82                   | 4.36  | 18.70 |       |
| Valle de México Norte  | Naucalpan     | 01-CAR-85  | CAREAGA                | 01-CAR-85-3  | 85             | 23              | 3.0              | 5.30   | 4.16  | 18.69 | 5.12  | 17.95                   | 4.23  | 18.32 |       |
| Valle de México Norte  | Tlalpantlilla | 01-BAR-85  | BARRIENTOS             | 01-BAR-85-1  | 85             | 23              | 3.0              | 5.81   | 4.16  | 18.69 | 5.96  | 17.09                   | 5.84  | 16.62 |       |
| Valle de México Norte  | Naucalpan     | 01-CAR-85  | CAREAGA                | 01-CAR-85-1  | 85             | 23              | 3.0              | 5.86   | 4.16  | 18.69 | 5.96  | 17.09                   | 5.84  | 16.62 |       |
| Valle de México Norte  | Atrazpan      | 01-LEC-85  | LECHERIA               | 01-LEC-85-4  | 85             | 23              | 3.0              | 5.97   | 4.15  | 18.31 | 6.00  | 17.50                   | 4.97  | 18.53 |       |
| Valle de México Norte  | Tlalpantlilla | 01-CTG-230   | CARTAGENA              | 01-CTG-230-2 | 230            | 23              | 60               | 6.18   | 18.71 | 6.19  | 19.11 | 6.16                    | 19.22 | 6.20  | 19.46 |
| Valle de México Norte  | Cuautitlan    | 01-TPZ-85  | TETOPOTZTLAN           | 01-TPZ-85-1  | 85             | 23              | 3.0              | 6.35   | 11.74 | 6.72  | 13.39 | 6.47                    | 12.82 | 6.79  | 14.37 |
| Valle de México Norte  | Cuautitlan    | 01-CTT-85  | CUAUTITLAN             | 01-CTT-85-5  | 85             | 23              | 3.0              | 7.12   | 38.05 | 6.02  | 33.46 | 7.14                    | 39.87 | 6.03  | 34.22 |
| Valle de México Norte  | Ecatepec      | 01-VDF-85  | VILLA DE LAS FLORES    | 01-VDF-85-2  | 85             | 23              | 3.0              | 8.34   | 25.19 | 9.21  | 28.26 | 8.49                    | 27.89 | 9.33  | 30.76 |
| Valle de México Norte  | Ecatepec      | 01-ECA-230   | S.E. ECATEPEC          | 01-ECA-230-2 | 230            | 23              | 60               | 8.49   | 34.65 | 9.17  | 37.25 | 8.50                    | 35.31 | 9.18  | 37.80 |
| Valle de México Norte  | Atrazpan      | 01-EVD-230   | S.E. EL VIDRIO         | 01-EVD-230-1 | 230            | 23              | 60               | 8.52   | 19.74 | 8.67  | 19.36 | 8.67                    | 19.36 | 8.67  | 19.36 |
| Valle de México Norte  | Atrazpan      | 01-EVD-230   | S.E. EL VIDRIO         | 01-EVD-230-2 | 230            | 23              | 60               | 8.50   | 17.14 | 8.67  | 17.96 | 8.53                    | 17.76 | 8.69  | 18.42 |
| Valle de México Norte  | Ecatepec      | 01-ECA-230   | S.E. ECATEPEC          | 01-ECA-230-3 | 230            | 23              | 60               | 8.54   | 34.47 | 9.22  | 37.03 | 8.55                    | 35.14 | 9.23  | 37.61 |
| Valle de México Norte  | Cuautitlan    | 01-CTT-85  | CUAUTITLAN             | 01-CTT-85-2  | 85             | 23              | 3.0              | 8.63   | 29.72 | 6.93  | 28.05 | 8.67                    | 31.73 | 6.94  | 28.95 |
| Valle de México Norte  | Cuautitlan    | 01-CTT-85  | CUAUTITLAN             | 01-CTT-85-3  | 85             | 23              | 3.0              | 8.65   | 29.63 | 6.94  | 27.97 | 8.69                    | 31.64 | 6.96  | 28.89 |
| Valle de México Norte  | Atrazpan      | 01-ATI-230   | S.E. ATIZAPAN          | 01-ATI-230-1 | 230            | 23              | 60               | 8.63   | 17.67 | 8.79  | 18.36 | 8.70                    | 18.39 | 8.81  | 18.88 |
| Valle de México Norte  | Atrazpan      | 01-ATI-230   | S.E. ATIZAPAN          | 01-ATI-230-2 | 230            | 23              | 60               | 8.67   | 17.67 | 8.79  | 18.36 | 8.70                    | 18.39 | 8.81  | 18.88 |
| Valle de México Norte  | Basílica      | 01-XAL-230   | S.E. XALOSTOC          | 01-XAL-230-2 | 230            | 23              | 60               | 8.68   | 18.02 | 8.79  | 18.61 | 8.70                    | 18.67 | 8.81  | 19.07 |
| Valle de México Norte  | Atrazpan      | 01-LVE-230   | LOMAS VERDES FLJA      | 01-LVE-230-1 | 230            | 23              | 60               | 8.69   | 17.70 | 8.80  | 18.38 | 8.71                    | 18.44 | 8.82  | 18.91 |
| Valle de México Norte  | Tlalpantlilla | 01-CEI-230   | CELILAN                | 01-CEI-230-2 | 230            | 23              | 60               | 8.69   | 18.02 | 8.80  | 18.64 | 8.71                    | 18.44 | 8.82  | 18.91 |
| Valle de México Norte  | Tlalpantlilla | 01-CEI-230   | CELILAN                | 01-CEI-230-1 | 230            | 23              | 60               | 8.72   | 18.06 | 8.82  | 18.64 | 8.75                    | 18.84 | 8.84  | 19.20 |
| Valle de México Norte  | Tlalpantlilla | 01-CEI-230   | CELILAN                | 01-CEI-230-3 | 230            | 23              | 60               | 8.72   | 18.06 | 8.82  | 18.64 | 8.75                    | 18.84 | 8.84  | 19.20 |
| Valle de México Norte  | Atrazpan      | 01-LGD-230   | S.E. LAGO DE GUADALUPE | 01-LGD-230-1 | 230            | 23              | 60               | 8.74   | 17.99 | 8.83  | 18.59 | 8.76                    | 18.73 | 8.85  | 19.12 |
| Valle de México Norte  | Atrazpan      | 01-ATK-230   | S.E. AZTECA            | 01-ATK-230-1 | 230            | 23              | 60               | 8.74   | 17.99 | 8.83  | 18.59 | 8.76                    | 18.73 | 8.85  | 19.12 |
| Valle de México Norte  | Azteca        | 01-ATK-230   | S.E. AZTECA            | 01-ATK-230-2 | 230            | 23              | 60               | 8.75   | 18.27 | 8.84  | 18.79 | 8.77                    | 18.92 | 8.86  | 19.25 |
| Valle de México Norte  | Naucalpan     | 01-MLP-230   | CHIMALPA               | 01-MLP-230-1 | 230            | 23              | 60               | 8.78   | 17.68 | 8.86  | 18.37 | 8.81                    | 18.44 | 8.88  | 19.29 |
| Valle de México Norte  | Naucalpan     | 01-AZC-230   | S.E. AZCAPOTZALCO      | 01-AZC-230-1 | 230            | 23              | 60               | 8.80   | 17.96 | 8.87  | 18.57 | 8.82                    | 18.75 | 8.89  | 19.13 |
| Valle de México Norte  | Naucalpan     | 01-AZC-230   | S.E. AZCAPOTZALCO      | 01-AZC-230-2 | 230            | 23              | 60               | 8.80   | 17.96 | 8.87  | 18.57 | 8.82                    | 18.75 | 8.89  | 19.13 |
| Valle de México Norte  | Naucalpan     | 01-AZC-230   | S.E. AZCAPOTZALCO      | 01-AZC-230-3 | 230            | 23              | 60               | 8.82   | 18.39 | 8.89  | 18.88 | 8.84                    | 19.04 | 8.90  | 19.34 |
| Valle de México Norte  | Azteca        | 01-CRG-230   | S.E. CERRO GORDO       | 01-CRG-230-1 | 230            | 23              | 60               | 8.82   | 18.39 | 8.89  | 18.88 | 8.84                    | 19.04 | 8.90  | 19.34 |
| Valle de México Norte  | Cuautitlan    |  |                        |              |                |                 |                  |  |       |       |       |                         |       |       |       |

Niveles de corto circuito de media tensión en las RGD,  
correspondientes al año 2020

| CFE Distribución    |             | NOTA: Con base a niveles de corto circuito de la Red Nacional de Transmisión 2020, publicado por el CENACE en Diciembre 2017 |                  |              |                |                 |                  |  |       |       |       |                         |       |       |       |
|---------------------|-------------|--|------------------|--------------|----------------|-----------------|------------------|--|-------|-------|-------|-------------------------|-------|-------|-------|
| División            | Zona        | Acronimo   | Subestación      | Banco        | Tensión A (kV) | Tensión MT (kV) | Capacidad en MVA | Corriente de corto circuito (kA), y relación X/R |       |       |       |                         |       |       |       |
|                     |             |  |                  |              |                |                 |                  | Nivel de CC mínimo 2020                          |       |       |       | Nivel de CC máximo 2020 |       |       |       |
|                     |             |  |                  |              |                |                 |                  | 3F   | X/R   | 1F    | X/R   | 3F                      | X/R   | 1F    | X/R   |
| Valle de México Sur | Coapa       | 01-COA-230   | COAPA            | 01-COA-230-1 | 230            | 23              | 60               | 11.96  | 26.02 | 12.74 | 28.03 | 11.99                   | 27.09 | 12.76 | 28.91 |
| Valle de México Sur | Coapa       | 01-COA-230   | COAPA            | 01-COA-230-2 | 230            | 23              | 60               | 11.96  | 26.02 | 12.74 | 28.03 | 11.99                   | 27.09 | 12.76 | 28.91 |
| Valle de México Sur | Coapa       | 01-COA-230   | COAPA            | 01-COA-230-3 | 230            | 23              | 60               | 11.96  | 26.02 | 12.74 | 28.03 | 11.99                   | 27.09 | 12.76 | 28.91 |
| Valle de México Sur | Universidad | 01-CRS-230   | CONTRERAS        | 01-CRS-230-1 | 230            | 23              | 60               | 7.41   | 17.55 | 7.53  | 18.26 | 7.43                    | 18.16 | 7.54  | 18.71 |
| Valle de México Sur | Universidad | 01-CRS-230   | CONTRERAS        | 01-CRS-230-2 | 230            | 23              | 60               | 8.24   | 17.31 | 8.39  | 18.09 | 8.26                    | 17.97 | 8.40  | 18.57 |
| Valle de México Sur | Universidad | 01-CRS-230   | CONTRERAS        | 01-CRS-230-3 | 230            | 23              | 60               | 9.82   | 16.88 | 10.02 | 17.76 | 9.85                    | 17.63 | 10.04 | 18.32 |
| Valle de México Sur | Volcancas   | 01-CVD-85  | COVADONGA        | 01-CVD-85-1  | 85             | 23              | 30               | 4.73   | 15.65 | 4.89  | 16.77 | 4.72                    | 15.81 | 4.89  | 16.90 |
| Valle de México Sur | Toluca      | 01-EST-230   | ESTADIO          | 01-EST-230-1 | 230            | 23              | 60               | 3.81   | 18.75 | 3.84  | 19.14 | 3.82                    | 19.12 | 3.85  | 19.39 |
| Valle de México Sur | Lomas       | 01-CJM-230   | CUAJIMALPA       | 01-CJM-230-1 | 230            | 23              | 60               | 9.43   | 17.30 | 9.56  | 18.09 | 9.46                    | 18.08 | 9.58  | 18.65 |
| Valle de México Sur | Lomas       | 01-CJM-230   | CUAJIMALPA       | 01-CJM-230-3 | 230            | 23              | 60               | 9.69   | 17.24 | 9.82  | 18.04 | 9.71                    | 18.03 | 9.84  | 18.62 |
| Valle de México Sur | Toluca      | 01-DVA-230   | DESPORTIVA       | 01-DVA-230-3 | 230            | 23              | 60               | 5.29   | 18.40 | 5.34  | 18.89 | 5.29                    | 18.89 | 5.34  | 19.23 |
| Valle de México Sur | Toluca      | 01-EST-230   | ESTADIO          | 01-EST-230-3 | 230            | 23              | 60               | 3.58   | 18.82 | 3.61  | 19.19 | 3.59                    | 19.17 | 3.61  | 19.43 |
| Valle de México Sur | Volcancas   | 01-EST-230   | ESTADIO          | 01-EST-230-4 | 230            | 23              | 60               | 10.61  | 17.56 | 10.79 | 18.27 | 10.64                   | 18.32 | 10.81 | 18.82 |
| Valle de México Sur | Toluca      | 01-EST-230   | ESTADIO          | 01-EST-230-2 | 230            | 23              | 60               | 3.90   | 18.73 | 3.93  | 19.12 | 3.90                    | 19.10 | 3.93  | 19.38 |
| Valle de México Sur | Toluca      | 01-EST-230   | ESTADIO          | 01-EST-230-1 | 230            | 23              | 60               | 3.93   | 18.72 | 3.96  | 19.11 | 3.94                    | 19.10 | 3.97  | 19.38 |
| Valle de México Sur | Volcancas   | 01-IXL-230   | IXTAPALUCA       | 01-IXL-230-2 | 230            | 23              | 60               | 5.04   | 18.75 | 5.08  | 19.13 | 5.05                    | 19.15 | 5.08  | 19.42 |
| Valle de México Sur | Volcancas   | 01-IXL-230   | IXTAPALUCA       | 01-IXL-230-1 | 230            | 23              | 60               | 5.08   | 18.74 | 5.12  | 19.13 | 5.09                    | 19.15 | 5.12  | 19.41 |
| Valle de México Sur | Volcancas   | 01-IXL-230   | IXTAPALUCA       | 01-IXL-230-3 | 230            | 23              | 60               | 10.61  | 17.56 | 10.79 | 18.27 | 10.64                   | 18.32 | 10.81 | 18.82 |
| Valle de México Sur | Ermitta     | 01-IZT-230   | IZTAPALAPA       | 01-IZT-230-1 | 230            | 23              | 60               | 12.01  | 26.26 | 12.78 | 28.24 | 12.04                   | 27.37 | 12.80 | 29.14 |
| Valle de México Sur | Ermitta     | 01-IZT-230   | IZTAPALAPA       | 01-IZT-230-2 | 230            | 23              | 60               | 12.01  | 26.26 | 12.78 | 28.24 | 12.04                   | 27.37 | 12.80 | 29.14 |
| Valle de México Sur | Ermitta     | 01-IZT-230   | IZTAPALAPA       | 01-IZT-230-3 | 230            | 23              | 60               | 12.01  | 26.26 | 12.78 | 28.24 | 12.04                   | 27.37 | 12.80 | 29.14 |
| Valle de México Sur | Volcancas   | 01-JCP-85  | JUCHITEPEC       | 01-JCP-85-1  | 85             | 23              | 30               | 4.16   | 12.99 | 4.40  | 14.48 | 4.15                    | 13.07 | 4.40  | 14.55 |
| Valle de México Sur | Volcancas   | 01-JCP-85  | JUCHITEPEC       | 01-JCP-85-2  | 85             | 23              | 30               | 4.22   | 12.92 | 4.47  | 14.42 | 4.21                    | 13.00 | 4.47  | 14.48 |
| Valle de México Sur | Volcancas   | 01-LAP-230   | LA PAZ           | 01-LAP-230-1 | 230            | 23              | 60               | 8.77   | 18.18 | 8.85  | 18.73 | 8.78                    | 18.85 | 8.86  | 19.20 |
| Valle de México Sur | Lomas       | 01-AGU-230   | LAS AGUILAS      | 01-AGU-230-2 | 230            | 23              | 60               | 8.21   | 17.56 | 8.29  | 18.28 | 8.23                    | 18.26 | 8.31  | 18.79 |
| Valle de México Sur | Lomas       | 01-AGU-230   | LAS AGUILAS      | 01-AGU-230-1 | 230            | 23              | 60               | 8.41   | 17.51 | 8.50  | 18.24 | 8.43                    | 18.22 | 8.51  | 18.76 |
| Valle de México Sur | Ermitta     | 01-MAG-85  | MAGDALENA        | 01-MAG-85-1  | 85             | 23              | 30               | 8.84   | 30.83 | 9.58  | 33.50 | 8.85                    | 31.79 | 9.59  | 34.32 |
| Valle de México Sur | Ermitta     | 01-MAG-85  | MAGDALENA        | 01-MAG-85-2  | 85             | 23              | 30               | 9.68   | 29.37 | 10.42 | 30.86 | 9.65                    | 29.39 | 10.43 | 31.72 |
| Valle de México Sur | Ermitta     | 01-MAG-85  | MAGDALENA        | 01-MAG-85-3  | 85             | 23              | 30               | 9.69   | 28.25 | 10.47 | 30.72 | 9.70                    | 29.26 | 10.48 | 31.58 |
| Valle de México Sur | Ermitta     | 01-MAG-85  | MAGDALENA        | 01-MAG-85-2  | 85             | 23              | 30               | 9.74   | 28.12 | 10.52 | 30.59 | 9.74                    | 29.14 | 10.53 | 31.45 |
| Valle de México Sur | Universidad | 01-ODB-230   | ODON DE BUEN     | 01-ODB-230-1 | 230            | 23              | 60               | 8.03   | 17.05 | 8.17  | 17.90 | 8.04                    | 17.71 | 8.18  | 18.38 |
| Valle de México Sur | Universidad | 01-ODB-230   | ODON DE BUEN     | 01-ODB-230-2 | 230            | 23              | 60               | 8.03   | 17.05 | 8.17  | 17.90 | 8.04                    | 17.71 | 8.18  | 18.38 |
| Valle de México Sur | Universidad | 01-ODB-230   | ODON DE BUEN     | 01-ODB-230-3 | 230            | 23              | 60               | 8.03   | 17.05 | 8.17  | 17.90 | 8.04                    | 17.71 | 8.18  | 18.38 |
| Valle de México Sur | Lomas       | 01-OLI-230   | OLIVAR           | 01-OLI-230-2 | 230            | 23              | 60               | 8.13   | 17.42 | 8.23  | 18.18 | 8.15                    | 18.12 | 8.24  | 18.68 |
| Valle de México Sur | Lomas       | 01-OLI-230   | OLIVAR           | 01-OLI-230-1 | 230            | 23              | 60               | 8.15   | 17.42 | 8.24  | 18.17 | 8.17                    | 18.11 | 8.25  | 18.68 |
| Valle de México Sur | Volcancas   | 01-PDC-115   | PASO DE CORTES   | 01-PDC-115-1 | 115            | 13.8            | 5                | 2.19   | 13.02 | 2.26  | 14.61 | 2.19                    | 13.07 | 2.26  | 14.65 |
| Valle de México Sur | Toluca      | 01-PTH-85  | PUERTA DE HIERRO | 01-PTH-85-1  | 85             | 23              | 30               | 2.80   | 15.01 | 2.91  | 16.26 | 2.83                    | 15.49 | 2.93  | 16.65 |
| Valle de México Sur | Coapa       | 01-RSL-230   | ROSAL            | 01-RSL-230-1 | 230            | 23              | 60               | 9.45   | 17.05 | 9.64  | 17.89 | 9.47                    | 17.78 | 9.65  | 18.43 |
| Valle de México Sur | Coapa       | 01-RSL-230   | ROSAL            | 01-RSL-230-2 | 230            | 23              | 60               | 9.45   | 17.05 | 9.64  | 17.89 | 9.47                    | 17.78 | 9.65  | 18.43 |
| Valle de México Sur | Universidad | 01-ANS-85  | SAN ANDRES       | 01-ANS-85-4  | 85             | 23              | 30               | 4.84   | 15.92 | 4.99  | 17.00 | 4.85                    | 16.38 | 5.00  | 17.36 |
| Valle de México Sur | Universidad | 01-ANS-85  | SAN ANDRES       | 01-ANS-85-1  | 85             | 23              | 30               | 5.59   | 15.44 | 5.79  | 16.61 | 5.60                    | 15.93 | 5.80  | 17.00 |
| Valle de México Sur | Universidad | 01-ANS-85  | SAN ANDRES       | 01-ANS-85-3  | 85             | 23              | 30               | 5.64   | 15.41 | 5.84  | 16.58 | 5.64                    | 15.91 | 5.84  | 16.98 |
| Valle de México Sur | Universidad | 01-ANS-85  | SAN ANDRES       | 01-ANS-85-2  | 85             | 23              | 30               | 5.68   | 15.38 | 5.89  | 16.56 | 5.69                    | 15.88 | 5.89  | 16.95 |
| Valle de México Sur | Lomas       | 01-SNG-230   | SAN ANGEL        | 01-SNG-230-3 | 230            | 23              | 60               | 7.44   | 17.62 | 7.52  | 18.32 | 7.46                    | 18.27 | 7.53  | 18.79 |
| Valle de México Sur | Lomas       | 01-SNG-230   | SAN ANGEL        | 01-SNG-230-2 | 230            | 23              | 60               | 7.63   | 17.56 | 7.71  | 18.28 | 7.65                    | 18.22 | 7.73  | 18.76 |
| Valle de México Sur | Lomas       | 01-SNG-230   | SAN ANGEL        | 01-SNG-230-1 | 230            | 23              | 60               | 7.69   | 17.55 | 7.77  | 18.27 | 7.71                    | 18.21 | 7.79  | 18.75 |
| Valle de México Sur | Toluca      | 01-SDI-85  | SAN DIEGO        | 01-SDI-85-1  | 85             | 23              | 30               | 2.91   | 15.04 | 2.91  | 16.29 | 2.84                    | 15.52 | 2.93  | 16.68 |
| Valle de México Sur | Toluca      | 01-SSO-85  | SAN FRANCISCO    | 01-SSO-85-1  | 85             | 23              | 30               | 4.67   | 15.17 | 4.83  | 16.40 | 4.67                    | 15.52 | 4.83  | 16.68 |
| Valle de México Sur | Ermitta     | 01-CRU-230   | SANTA CRUZ       | 01-CRU-230-7 | 230            | 23              | 60               | 12.41  | 26.34 | 13.16 | 28.22 | 12.44                   | 27.44 | 13.19 | 29.10 |
| Valle de México Sur | Ermitta     | 01-CRU-230   | SANTA CRUZ       | 01-CRU-230-6 | 230            | 23              | 60               | 12.65  | 26.05 | 13.41 | 27.91 | 12.68                   | 27.16 | 13.43 | 28.80 |
| Valle de México Sur | Ermitta     | 01-CRU-230   | SANTA CRUZ       | 01-CRU-230-5 | 230            | 23              | 60               | 12.65  | 26.05 | 13.41 | 27.91 | 12.68                   | 27.16 | 13.43 | 28.80 |
| Valle de México Sur | Universidad | 01-TAX-85  | TAXQUENA         | 01-TAX-85-1  | 85             | 23              | 10               | 2.96   | 17.47 | 3.02  | 18.20 | 2.96                    | 17.71 | 3.02  | 18.38 |
| Valle de México Sur | Universidad | 01-TAX-85  | TAXQUENA         | 01-TAX-85-1  | 85             | 23              | 10               | 2.96   | 17.47 | 3.02  | 18.20 | 2.96                    | 17.71 | 3.02  | 18.38 |
| Valle de México Sur | Universidad | 01-TAX-85  | TAXQUENA         | 01-TAX-85-1  | 85             | 23              | 10               | 2.96   | 17.47 | 3.02  | 18.20 | 2.96                    | 17.71 | 3.02  | 18.38 |
| Valle de México Sur | Universidad | 01-TAX-85  | TAXQUENA         | 01-TAX-85-4  | 85             | 23              | 10               | 2.96   | 17.47 | 3.02  | 18.20 | 2.96                    | 17.71 | 3.02  | 18.38 |
| Valle de México Sur | Universidad | 01-TAX-85  | TAXQUENA         | 01-TAX-85-4  | 85             | 23              | 10               | 2.96   | 17.47 | 3.02  | 18.20 | 2.96                    | 17.71 | 3.02  | 18.38 |
| Valle de México Sur | Universidad | 01-TAX-85  | TAXQUENA         | 01-TAX-85-4  | 85             | 23              | 10               | 2.96   | 17.47 | 3.02  | 18.20 | 2.96                    | 17.71 | 3.02  | 18.38 |
| Valle de México Sur | Universidad | 01-TAX-85  | TAXQUENA         | 01-TAX-85-4  | 85             | 23              | 10               | 2.96   | 17.47 | 3.02  | 18.20 | 2.96                    | 17.71 | 3.02  | 18.38 |
| Valle de México Sur | Universidad | 01-TAX-85  | TAXQUENA         | 01-TAX-85-4  | 85             | 23              | 10               | 2.96   | 17.47 | 3.02  | 18.20 | 2.96                    | 17.71 | 3.02  | 18.38 |
| Valle de México Sur | Universidad | 01-TAX-85  | TAXQUENA         | 01-TAX-85-4  | 85             | 23              | 10               | 2.96   | 17.47 | 3.02  | 18.20 | 2.96                    | 17.71 | 3.02  | 18.38 |
| Valle de México Sur | Universidad | 01-TAX-85  | TAXQUENA         | 01-TAX-85-4  | 85             | 23              | 10               | 2.96   | 17.47 | 3.02  | 18.20 | 2.96                    | 17.71 | 3.02  | 18.38 |
| Valle de México Sur | Universidad | 01-TAX-85  | TAXQUENA         | 01-TAX-85-4  | 85             | 23              | 10               | 2.96   | 17.47 | 3.02  | 18.20 | 2.96                    | 17.71 | 3.02  | 18.38 |
| Valle de México Sur | Universidad | 01-TAX-85  | TAXQUENA         | 01-TAX-85-4  | 85             | 23              | 10               | 2.96   | 17.47 | 3.02  | 18.20 | 2.96                    | 17.71 | 3.02  | 18.38 |
| Valle de México Sur | Universidad | 01-TAX-85  | TAXQUENA         | 01-TAX-85-4  | 85             | 23              | 10               | 2.96   | 17.47 | 3.02  | 18.20 | 2.96                    | 17.71 | 3.02  | 18.38 |
| Valle de México Sur | Universidad | 01-TAX-85  | TAXQUENA         | 01-TAX-85-4  | 85             | 23              | 10               | 2.96   | 17.47 | 3.02  | 18.20 | 2.96                    | 17.71 | 3.02  | 18.38 |
| Valle de México Sur | Universidad | 01-TAX-85  | TAXQUENA         | 01-TAX-85-4  | 85             | 23              | 10               | 2.96   | 17.47 | 3.02  | 18.20 | 2.96                    | 17.71 | 3.02  | 18.38 |
| Valle de México Sur | Universidad | 01-TAX-85  | TAXQUENA         | 01-TAX-85-4  | 85             | 23              | 10               | 2.96   | 17.47 | 3.02  | 18.20 | 2.96                    | 17.71 | 3.02  | 18.38 |
| Valle de México Sur | Universidad | 01-TAX-85  | TAXQUENA         | 01-TAX-85-4  | 85             | 23              | 10               | 2.96   | 17.47 | 3.02  | 18.20 | 2.96                    | 17.71 | 3.02  | 18.38 |
| Valle de México Sur | Universidad | 01-TAX-85  | TAXQUENA         | 01-TAX-85-4  | 85             | 23              | 10               | 2.96   | 17.47 | 3.02  | 18.20 | 2.96                    | 17.71 | 3.02  | 18.38 |
| Valle de México Sur | Universidad | 01-TAX-85  | TAXQUENA         | 01-TAX-85-4  | 85             | 23              | 10               | 2.96   | 17.47 | 3.02  | 18.20 | 2.96                    | 17.71 | 3.02  | 18.38 |
| Valle de México Sur | Universidad | 01-TAX-85  | TAXQUENA         | 01-TAX-85-4  | 85             | 23              | 10               | 2.96   | 17.47 | 3.02  | 18.20 | 2.96                    | 17.71 | 3.02  | 18.38 |
| Valle de México Sur | Universidad | 01-TAX-85  | TAXQUENA         | 01-TAX-85-4  | 85             | 23              | 10               | 2.96   | 17.47 | 3.02  | 18.20 | 2.96                    | 17.71 | 3.02  | 18.38 |
| Valle de México Sur | Universidad | 01-TAX-85  | TAXQUENA         | 01-TAX-85-4  | 85             | 23              | 10               | 2.96   | 17.47 | 3.02  | 18.20 | 2.96                    | 17.71 | 3.02  | 18.38 |
| Valle de México Sur | Universidad | 01-TAX-85  | TAXQUENA         | 01-TAX-85-4  | 85             | 23              | 10               | 2.96   | 17.47 | 3.02  | 18.20 | 2.96                    | 17.71 | 3.02  | 18.38 |
| Valle de México Sur | Universidad | 01-TAX-85  | TAXQUENA         | 01-TAX-85-4  | 85             | 23              | 10               | 2.96   | 17.47 | 3.02  | 18.20 | 2.96                    | 17.71 | 3.02  | 18.38 |
| Valle de México Sur | Universidad | 01-TAX-85  | TAXQUENA         | 01-TAX-85-4  | 85             | 23              | 10               | 2.96   | 17.47 | 3.02  | 18.20 | 2.96                    | 17.71 | 3.02  | 18.38 |
| Valle de México Sur | Universidad | 01-TAX-85  | TAXQUENA         | 01-TAX-85-4  | 85             | 23              | 10               | 2.96   | 17.47 | 3.02  | 18.20 | 2.96                    | 17.71 | 3.02  | 18.38 |