



CENACE[®]
CENTRO NACIONAL DE
CONTROL DE ENERGÍA

Niveles de cortocircuito de la Red Nacional de Transmisión 2026

Dirección de Operación y Planeación
del Sistema
Subdirección de Planeación

Febrero de 2024

*Capacidad de cortocircuito en las subestaciones eléctricas del Sistema Eléctrico Nacional
calculados con base en el Estándar IEC 60909.*

Contenido

1. Objetivo
2. Fundamento legal
3. Consideraciones de cálculo
4. Niveles de cortocircuito reportados por nivel de tensión y por Gerencia de Control Regional
5. Referencias
6. Niveles de cortocircuito de la Red Nacional de Transmisión
 - 6.1 Gerencia de Control Regional Central
 - 6.2 Gerencia de Control Regional Oriental
 - 6.3 Gerencia de Control Regional Occidental
 - 6.4 Gerencia de Control Regional Noroeste
 - 6.5 Gerencia de Control Regional Norte
 - 6.6 Gerencia de Control Regional Noreste
 - 6.7 Gerencia de Control Regional Baja California
 - 6.7.1 Sistema Interconectado Baja California
 - 6.7.2 Sistema Interconectado Baja California Sur
 - 6.7.3 Sistema Interconectado Mulegé
 - 6.8 Gerencia de Control Regional Peninsular

1. Objetivo

Determinar los niveles de cortocircuito máximos y mínimos en las subestaciones eléctricas de la Red Nacional de Transmisión.

2. Fundamento legal

De conformidad con los Criterios INTE 11, así como CONE 5, de las Disposiciones Administrativas de carácter general que contienen los criterios de eficiencia, calidad, confiabilidad, continuidad, seguridad y sustentabilidad del Sistema Eléctrico Nacional: Código de Red, publicadas en el Diario Oficial de la federación el 31 de diciembre de 2021, corresponde al Centro Nacional de Control de Energía (CENACE) calcular y publicar anualmente los niveles de cortocircuito máximos y mínimos en los Puntos de Interconexión de Centrales Eléctricas y conexión de Centros de Carga.

3. Consideraciones de cálculo

Los niveles de cortocircuito se calcularon con base en lo siguiente:

- a) A fin de calcular los valores máximos y mínimos en los Puntos de Interconexión de Centrales Eléctricas y Conexión de Centros de Carga, se analizaron los escenarios esperados para 2026.
- b) Para el escenario de mínima capacidad, se considera red completa (sin contingencia) y las condiciones esperadas para invierno de 2026.
- c) Para el escenario de máxima capacidad, se consideran cerrados todos los interruptores y elementos de transmisión que pueden estar en servicio en la Red Nacional de Transmisión, para dos condiciones: con los retiros solicitados al CENACE para 2026, así como con el Programa Indicativo Para el Retiro de Centrales Eléctricas 2023-2037.
- d) Los modelos eléctricos del Sistema Eléctrico Nacional (SEN) contemplan las obras ya instruidas de los programas de ampliación y modernización para la Red Nacional de Transmisión y los elementos de las Redes Generales de Distribución que correspondan al Mercado Eléctrico Mayorista (PAMRNT) e instruidas en el Programa de Desarrollo del Sistema Eléctrico Nacional (PRODESEN) 2023-2037.

- e) Los modelos eléctricos del SEN se desarrollaron con base en la información proporcionada por los Transportistas y Distribuidores.
- f) Los modelos de las Centrales Eléctricas y de los Centros de Cargas programados en los escenarios de estudio son con base en la información proporcionada en las solicitudes de interconexión y de conexión respectivamente que fueron consideradas para el PAMRNT 2023-2037.
- g) El método de cálculo es el establecido en el Estándar IEC 60909.
- h) Para efectos de cálculo se utiliza la herramienta de software PSS®E V35.6, con los siguientes parámetros:
 - Taps de los transformadores unitarios.
 - Reactores de Líneas de Transmisión (LT) y barra en servicio y sin cambio.
 - Susceptancia de las LT sin cambio.
 - Reactancia subtransitoria de las unidades de Centrales Eléctricas.
 - Cargas del sistema eléctrico sin cambio.
 - Para el escenario de máxima capacidad se considera el factor $C = 1.1$.
 - Para el escenario de mínima capacidad se considera el factor $C=1.0$.
- i) Se reporta la magnitud de la corriente simétrica inicial I_k'' (r.m.s.)

Los niveles de cortocircuito calculados pueden variar dependiendo de las impedancias de las unidades de las Centrales Eléctricas, transformadores, autotransformadores, transformadores defasadores, reactores, etc., que tienen fecha de entrada en operación, se retiren y no se consideren entre 2023 y 2026.

4. Niveles de cortocircuito reportados por nivel de tensión y por Gerencia de Control Regional

En la figura 1 se muestran los niveles de cortocircuito reportados por nivel de tensión. Se observa que el nivel de tensión con el mayor número de subestaciones eléctricas es 115 kV, con aproximadamente el 68% de los valores reportados.

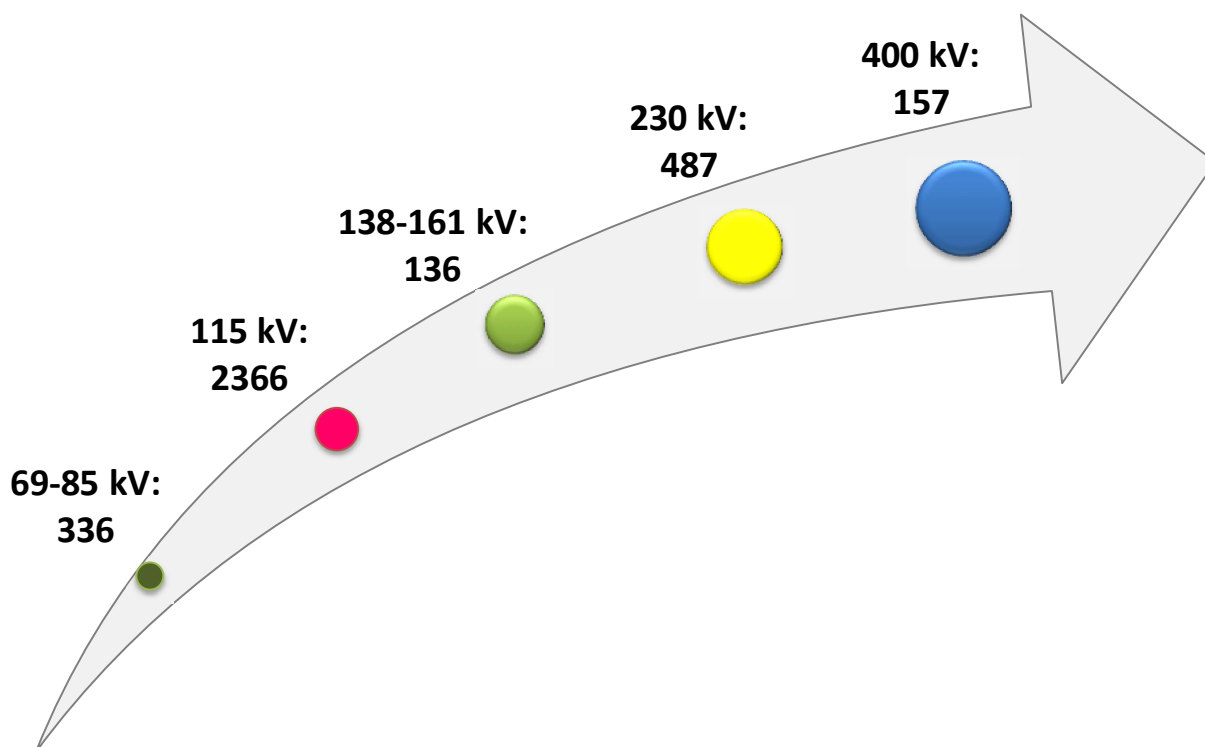
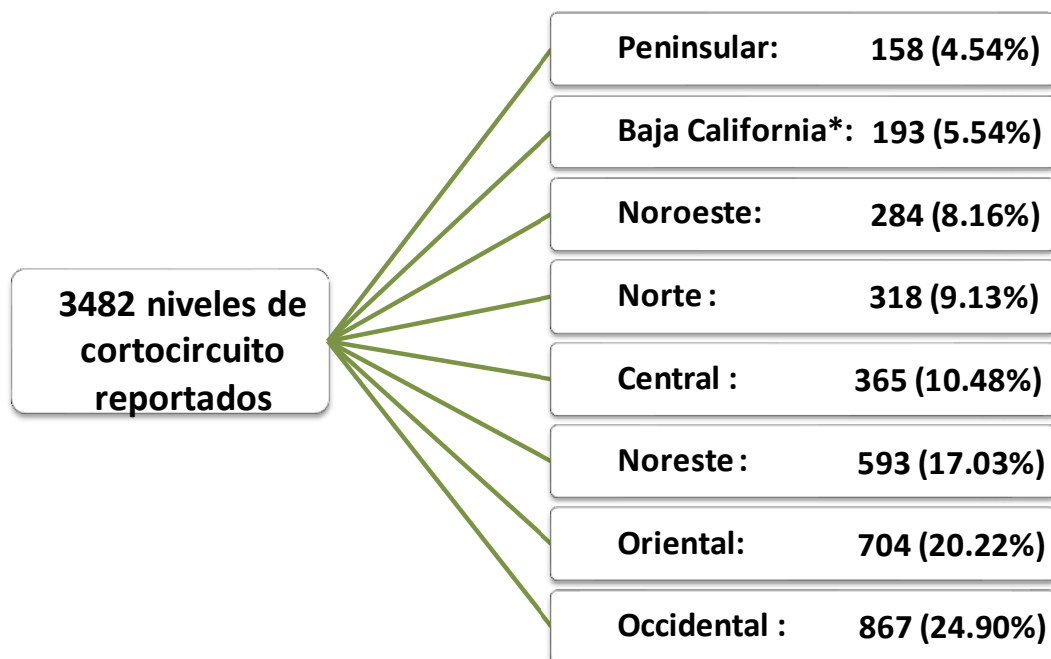


Figura 1: Niveles de cortocircuito por nivel de tensión

Considerando las diferentes Gerencias de Control Regional, en la figura 2 se indica el número de subestaciones eléctricas reportadas por Gerencia de Control, por ejemplo, el 25% de los niveles de cortocircuito reportados corresponde a la Gerencia de Control Regional Occidental.



* Incluye los Sistemas Interconectados Baja California, Baja California Sur y Mulegé

Figura 2: Niveles de cortocircuito por Gerencia de Control Regional

5. Referencias

- [1] Ley de la Industria Eléctrica. DOF: 11/08/2014.
- [2] Reglamento de la Ley de la Industria eléctrica. DOF: 31/10/14.
- [3] Disposiciones Administrativas de carácter general que contienen los criterios de eficiencia, calidad, confiabilidad, continuidad, seguridad y sustentabilidad del Sistema Eléctrico Nacional: Código de Red. DOF: 31/12/2021.
- [4] Programas de ampliación y modernización de la Red Nacional de Transmisión y de los elementos de las Redes Generales de Distribución que correspondan al Mercado Eléctrico Mayorista 2023-2037.
- [5] Estándar IEC 60909 Short-circuit currents in three-phase a.c. systems.
- [6] IEEE Standard 551-2006. Recommended Practice for Calculating Short-Circuit Currents in Industrial and Commercial Power Systems.

Gerencia de Control Regional Central



Regresar a mapa del SEN



Niveles de cortocircuito de la Red Nacional de Transmisión
Gerencia de Control Regional Central

Subestación Eléctrica	Acrónimo	Tensión (kV)	Corriente de cortocircuito (kA) e impedancias de Thévenin secuencias positiva y cero (Ω)							
			NCC mínimo 2026				NCC máximo 2026			
			3F	1F	ZTH(+)	ZTH(0)	3F	1F	ZTH(+)	ZTH(0)
ACEROS CAMESA	ACM-85	85.0	17.00	5.99	0.536+j2.837	2.005+j18.694	20.24	7.84	0.429+j2.632	2.427+j15.140
ACEROS CORSA	ACS-230	230.0	12.73	9.39	1.667+j10.300	3.901+j21.269	14.73	10.64	1.408+j9.817	3.858+j21.043
ACEROS CORSA	ACC-85	85.0	13.36	5.46	0.686+j3.610	2.637+j19.435	15.52	7.60	0.606+j3.425	2.821+j14.061
ACEROS NACIONALES	ACN-85	85.0	17.32	6.32	0.595+j2.770	2.178+j17.502	20.04	8.64	0.520+j2.643	2.500+j13.117
ACOLMAN	ACO-230	230.0	24.77	18.91	0.937+j5.279	2.129+j10.137	29.24	21.69	0.712+j4.945	2.100+j10.006
ACTOPAN	AAN-85	85.0	5.65	1.92	2.595+j8.292	9.739+j58.595	6.33	2.26	2.504+j8.151	10.871+j53.696
ACULCO	AUO-115	115.0	2.83	1.61	4.337+j23.019	14.866+j75.541	3.12	1.77	4.284+j22.979	14.870+j75.560
AEROPUERTO INTERNACIONAL FELIPE ÁNGELES	AFA-230	230.0	15.55	13.18	1.195+j8.455	1.449+j13.080	18.11	15.29	0.938+j8.009	1.355+j12.463
AGUAVIVA	AGV-85	85.0	5.58	1.32	1.924+j8.576	10.325+j93.341	6.24	1.46	1.857+j8.453	10.325+j93.341
ÁGUILAS	AGU-230	230.0	27.11	27.96	1.216+j4.745	0.690+j4.415	32.90	33.31	0.888+j4.350	0.664+j4.223
AGUSTÍN MILLÁN	ANM-115	115.0	17.90	13.24	0.609+j3.658	1.258+j7.515	21.63	15.39	0.500+j3.339	1.273+j7.369
AIFA MANIOBRAS	AFM-230	230.0	15.81	13.38	1.152+j8.321	1.427+j12.917	18.42	15.52	0.896+j7.877	1.335+j12.307
ALMOLOYA	AML-400	400.0	12.49	10.68	2.981+j18.242	2.116+j27.856	15.72	12.70	1.961+j16.041	2.191+j27.559
ALPURA	ALR-85	85.0	17.42	5.84	0.541+j2.764	2.153+j19.465	21.10	7.63	0.417+j2.525	2.574+j15.904
ALTAMIRANO (115 KV)	ATM-115	115.0	2.73	1.61	6.621+j23.411	20.163+j72.129	3.35	2.35	5.454+j21.123	11.908+j48.279
AMOMOLULCO	AMO-85	85.0	8.92	4.57	1.200+j5.369	2.469+j21.082	10.24	5.19	1.095+j5.158	2.572+j20.529
APAPLASTIC	AAP-85	85.0	9.23	4.66	1.126+j5.196	2.684+j20.782	10.61	5.29	1.023+j4.983	2.787+j20.229
APASCO	APA-230	230.0	20.73	18.18	1.033+j6.322	1.128+j9.036	24.97	21.43	0.763+j5.801	1.088+j8.669
APASCO	APA-85	85.0	18.50	3.61	0.416+j2.620	1.373+j35.537	21.62	4.24	0.353+j2.472	2.392+j33.139
APM TERMINALS	ATS-115	115.0	10.24	9.25	1.090+j6.389	1.496+j8.334	13.56	11.64	0.832+j5.321	1.476+j7.893
ARAGÓN	ARA-230	230.0	18.56	17.62	1.177+j7.058	1.362+j8.194	21.72	20.45	0.911+j6.664	1.294+j7.877
ARAGÓN	ARA-85	85.0	9.10	2.80	0.611+j5.357	0.311+j41.847	11.24	3.15	0.505+j4.776	0.311+j41.847
ARCELIA NUEVA	ANU-115	115.0	2.36	1.43	9.238+j26.584	27.046+j78.047	2.94	2.41	7.414+j23.719	8.566+j40.504
ARCELIA NUEVA	ANU-69	69.0	2.14	2.63	3.888+j18.196	0.616+j8.240	2.51	3.04	3.223+j17.182	0.618+j8.250
ARCELOR MITTAL MANIOBRAS	MAN-230	230.0	11.67	10.34	2.209+j11.157	2.649+j15.140	18.82	14.96	1.096+j7.684	2.561+j13.372
ARMEX	ARX-230	230.0	25.46	19.77	0.884+j5.139	1.979+j9.519	31.45	23.65	0.618+j4.604	1.921+j9.044
ARTEAGA	ATG-115	115.0	2.58	1.91	5.648+j25.120	8.609+j52.268	2.96	2.15	5.351+j24.063	8.575+j51.708
ARTEAGA	ATG-69	69.0	1.94	1.93	4.093+j20.158	2.726+j20.506	2.19	2.18	4.073+j19.554	2.755+j20.251
ATENCO	ATE-230	230.0	17.03	17.65	1.793+j7.588	0.759+j6.977	20.43	20.88	1.358+j7.019	0.715+j6.649
ATENCO	ATE-85	85.0	14.81	7.11	0.637+j3.253	0.984+j14.065	17.53	8.22	0.537+j3.032	1.088+j13.516
ATIZAPÁN	ATI-230	230.0	21.72	17.96	1.203+j5.994	1.776+j9.805	25.78	20.90	0.907+j5.592	1.690+j9.489
ATLACOMULCO	ATU-115	115.0	8.16	5.80	1.680+j7.961	3.290+j17.774	9.12	6.43	1.593+j7.846	3.291+j17.735
ATLACOMULCO INDUSTRIAL	AIN-115	115.0	6.35	4.31	2.386+j10.180	5.338+j24.772	7.07	4.77	2.299+j10.067	5.338+j24.733
ATLACOMULCO POTENCIA	AMP-400	400.0	9.99	8.79	3.516+j22.849	2.565+j32.476	12.21	10.30	2.477+j20.655	2.631+j32.237
ATLACOMULCO POTENCIA	AMP-115	115.0	15.65	14.70	0.634+j4.196	0.355+j5.062	17.79	16.55	0.547+j4.068	0.358+j5.015
ATOTONILCO	ANL-85	85.0	2.91	1.17	4.415+j16.304	17.163+j90.298	3.23	1.36	4.308+j16.138	18.294+j83.936
AURORA	AUR-230	230.0	31.43	31.75	0.915+j4.125	0.622+j4.065	38.12	37.61	0.643+j3.777	0.602+j3.943
AURORA	AUR-85	85.0	20.25	2.77	0.370+j2.396	0.110+j48.271	23.58	3.07	0.311+j2.268	0.110+j48.271
AUTOMETALES	AUM-85	85.0	13.26	5.43	0.709+j3.633	2.728+j19.511	15.43	7.72	0.626+j3.443	2.810+j13.685
AVANDARO	AVA-115	115.0	7.14	4.76	2.611+j8.929	6.737+j22.192	8.22	5.39	2.465+j8.536	6.708+j21.831



Niveles de cortocircuito de la Red Nacional de Transmisión Gerencia de Control Regional Central

Subestación Eléctrica	Acrónimo	Tensión (kV)	Corriente de cortocircuito (kA) e impedancias de Thévenin secuencias positiva y cero (Ω)							
			NCC mínimo 2026				NCC máximo 2026			
			3F	1F	ZTH(+)	ZTH(0)	3F	1F	ZTH(+)	ZTH(0)
AVANTE TEXTIL	AVT-85	85.0	12.87	6.50	0.750+j3.738	1.225+j15.005	15.12	7.50	0.648+j3.511	1.324+j14.399
AYOTLA	AYO-230	230.0	20.95	20.15	1.187+j6.226	0.843+j7.066	24.49	23.32	0.917+j5.895	0.806+j6.818
AYOTLA	AYO-85	85.0	17.00	2.25	0.453+j2.852	3.143+j59.600	19.58	2.48	0.395+j2.728	3.143+j59.600
AZCAPOTZALCO	AZC-230	230.0	33.73	32.07	0.938+j3.823	2.378+j4.024	42.08	38.64	0.629+j3.414	2.317+j3.927
AZTECA	ATK-230	230.0	27.17	25.66	0.894+j4.804	0.784+j5.718	32.49	30.03	0.644+j4.450	0.758+j5.555
BANCOMER	BBV-230	230.0	22.49	11.84	1.189+j5.783	2.165+j21.768	26.79	13.48	0.889+j5.380	2.100+j21.518
BÁRBARA (SANTA)	BBR-115	115.0	7.82	5.39	1.775+j8.300	4.115+j19.573	9.73	7.91	1.417+j7.369	1.854+j12.513
BARRIENTOS	BAR-85	85.0	20.01	6.96	0.521+j2.397	1.761+j16.178	23.33	9.75	0.446+j2.270	2.083+j11.793
BECTON DICKINSON	BDK-85	85.0	17.06	5.77	0.554+j2.823	2.187+j19.654	20.65	7.52	0.429+j2.579	2.607+j16.092
BOSQUES	BOS-230	230.0	24.25	21.40	1.332+j5.312	1.658+j7.489	29.12	24.96	1.014+j4.912	1.624+j7.339
BUENTONO (SCT)	BUT-B1 230	230.0	21.09	19.81	1.197+j6.181	0.999+j7.478	24.94	23.27	0.920+j5.784	0.923+j7.067
BUENTONO (SCT)	BUT-B2 230	230.0	18.25	18.80	1.503+j7.120	0.926+j6.594	21.40	21.94	1.189+j6.722	0.871+j6.265
CAMPO MORADO	CMO-115	115.0	1.79	1.08	11.124+j35.425	32.524+j105.641	2.16	1.60	9.287+j32.580	13.865+j67.861
CAMPOS HERMANOS	CHE-85	85.0	18.48	6.60	0.561+j2.596	1.984+j16.885	21.45	9.13	0.486+j2.469	2.305+j12.500
CANCHESDA NUEVA	CSN-115	115.0	3.07	1.92	5.742+j20.850	15.432+j58.709	3.40	2.11	5.654+j20.739	15.432+j58.669
CARACOL	ROL-230	230.0	23.18	18.13	1.035+j5.635	2.271+j10.284	27.29	20.74	0.798+j5.292	2.261+j10.196
CARBONER	CSR-115	115.0	5.31	4.79	2.592+j12.235	3.575+j16.103	6.40	5.63	2.324+j11.177	3.560+j15.677
CAREAGA	CAR-85	85.0	19.30	6.32	0.491+j2.495	2.165+j18.083	22.37	9.14	0.427+j2.375	2.182+j12.708
CARTAGENA	CTG-230	230.0	30.16	26.43	0.873+j4.315	0.722+j6.245	36.70	31.09	0.610+j3.933	0.700+j6.095
CARTÓN Y PAPEL DE MÉXICO	CPM-230	230.0	27.84	24.53	0.901+j4.683	1.193+j6.608	33.40	28.65	0.650+j4.325	1.167+j6.451
CAYACAL	CAY-115	115.0	7.45	6.70	1.806+j8.724	2.214+j11.602	9.33	8.10	1.534+j7.676	2.184+j11.176
CAÑAS	CNA-69	69.0	1.44	1.19	11.586+j25.152	14.446+j43.253	1.70	1.40	10.939+j23.323	13.848+j40.276
CEILÁN	CEI-230	230.0	25.37	22.64	0.964+j5.144	1.174+j7.035	30.79	26.87	0.667+j4.696	1.127+j6.728
CEMENTOS ANÁHUAC	CAH-85	85.0	17.30	6.40	0.604+j2.772	1.941+j17.237	20.09	8.72	0.523+j2.636	2.307+j12.994
CEMENTOS APASCO	CEA-85	85.0	10.22	2.60	0.885+j4.719	4.915+j46.849	11.60	2.99	0.825+j4.579	5.935+j44.443
CEMENTOS FORTALEZA	CFZ-85	85.0	2.51	1.04	4.987+j18.901	18.149+j101.495	2.78	1.18	4.895+j18.767	19.281+j96.585
CEMENTOS TOLTECA	TLT-85	85.0	9.57	2.36	0.928+j5.043	6.376+j51.681	10.86	2.71	0.867+j4.897	7.396+j49.270
CERRO DEL CAMPO	CCM-115	115.0	3.38	2.30	5.898+j18.740	14.891+j45.046	4.00	2.93	5.252+j17.480	11.391+j36.517
CERRO GORDO	CRG-230	230.0	35.92	37.18	0.779+j3.614	0.458+j3.308	44.22	44.64	0.532+j3.260	0.440+j3.185
CERRO GORDO	CRG-85	85.0	23.99	8.35	0.381+j2.010	0.953+j13.539	29.31	14.18	0.293+j1.818	0.932+j7.683
CERVECERÍA MODELO	CVM-85	85.0	13.63	4.62	0.687+j3.535	7.262+j23.612	15.55	6.14	0.621+j3.416	7.235+j18.139
CHALCO	CHA-230	230.0	16.62	16.45	2.328+j7.644	2.176+j7.963	19.23	18.89	2.055+j7.312	2.133+j7.713
CHALCO	CHA-85	85.0	12.36	1.75	0.759+j3.898	6.597+j75.752	14.08	1.94	0.695+j3.770	6.597+j75.752
CHALCO	CHA-85B	85.0	12.36	1.75	0.759+j3.898	6.597+j75.752	14.08	1.94	0.695+j3.770	6.597+j75.752
CHAPINGO	CPG-230	230.0	38.87	34.77	0.686+j3.347	0.882+j4.551	47.65	40.99	0.461+j3.031	0.865+j4.479
CHICOLAPAN	CHC-230	230.0	22.60	17.83	1.039+j5.783	1.988+j10.412	26.50	20.47	0.791+j5.454	1.931+j10.213
CHIMALPA	MLP-230	230.0	31.15	32.10	1.077+j4.124	0.872+j3.791	38.47	38.37	0.766+j3.719	0.867+j3.721
CHIMALPA DOS	MLD-400	400.0	24.37	23.02	2.063+j9.250	1.804+j10.998	31.63	28.07	1.210+j7.939	1.810+j10.919
CHIMALPA DOS	MLD-230	230.0	32.59	33.80	1.008+j3.948	0.581+j3.606	40.44	40.53	0.697+j3.544	0.578+j3.538
CHRYSLER DE MÉXICO	KDM-85	85.0	12.19	6.56	0.764+j3.954	1.091+j14.388	14.38	7.64	0.658+j3.696	1.186+j13.646



Niveles de cortocircuito de la Red Nacional de Transmisión
Gerencia de Control Regional Central

Subestación Eléctrica	Acrónimo	Tensión (kV)	Corriente de cortocircuito (kA) e impedancias de Thévenin secuencias positiva y cero (Ω)							
			NCC mínimo 2026				NCC máximo 2026			
			3F	1F	ZTH(+)	ZTH(0)	3F	1F	ZTH(+)	ZTH(0)
CIUDAD BICENTENARIO	CDB-115	115.0	6.15	4.96	1.447+j10.694	2.292+j18.424	6.86	5.51	1.371+j10.555	2.283+j18.314
COAPA	COA-230	230.0	17.96	15.81	1.415+j7.258	1.791+j10.262	21.26	18.48	1.072+j6.786	1.688+j9.826
COFRADÍA UNO	CFI-230	230.0	29.66	25.79	0.905+j4.384	0.889+j6.446	36.29	30.36	0.622+j3.976	0.871+j6.322
COMALCO	COM-115	115.0	3.72	2.41	4.401+j17.295	10.709+j45.558	4.12	2.67	4.312+j17.178	10.712+j45.513
CONDESA	CDS-230	230.0	21.82	22.58	1.569+j5.881	1.186+j5.348	25.96	26.71	1.236+j5.490	1.117+j5.020
CONTADERO	CTD-230	230.0	23.32	20.92	1.353+j5.532	1.483+j7.517	27.89	24.48	1.032+j5.136	1.425+j7.282
CONTRERAS	CRS-230	230.0	15.88	13.47	1.563+j8.217	1.289+j12.816	18.42	15.51	1.242+j7.831	1.224+j12.346
COVADONGA	CVD-85	85.0	11.88	1.91	0.774+j4.058	4.885+j68.527	13.50	2.11	0.712+j3.933	4.885+j68.527
COYOACÁN	COY-230	230.0	23.06	23.74	1.396+j5.588	1.288+j5.105	27.54	28.19	1.064+j5.196	1.218+j4.783
COYOTEPEC	CYO-85	85.0	7.57	3.31	2.097+j6.136	5.847+j31.069	9.83	4.14	1.463+j5.295	6.261+j27.466
CRUZ AZUL	CCZ-230	230.0	25.80	21.06	0.773+j5.088	1.585+j8.481	32.11	25.37	0.512+j4.521	1.567+j8.025
CUAJIMALPA	CJM-230	230.0	23.33	22.06	1.243+j5.554	0.839+j6.651	27.90	25.76	0.915+j5.155	0.820+j6.488
CUAUHTÉMOC	CMC-230	230.0	21.55	20.06	1.130+j6.058	1.286+j7.434	25.51	23.59	0.854+j5.661	1.210+j7.026
CUAUTITLÁN	CTT-85	85.0	16.74	5.67	0.601+j2.869	2.424+j19.977	20.95	7.43	0.431+j2.541	2.842+j16.399
CUBITOS	CBT-85	85.0	8.66	2.35	1.371+j5.497	7.596+j50.796	9.88	2.92	1.268+j5.316	8.796+j43.720
CULHUACÁN	CUL-230	230.0	18.63	17.27	1.588+j6.950	1.717+j8.647	22.09	20.35	1.247+j6.495	1.585+j8.153
DART DE MÉXICO	DDM-115	115.0	6.33	4.29	2.394+j10.220	5.367+j24.905	7.05	4.75	2.307+j10.106	5.367+j24.866
DEACERO	DCO-85	85.0	20.06	6.97	0.519+j2.391	1.768+j16.142	23.82	9.67	0.425+j2.226	2.150+j12.020
DEPORTIVA	DVA-400	400.0	15.34	13.48	2.553+j14.837	1.445+j21.274	19.38	16.11	1.563+j13.012	1.461+j21.004
DEPORTIVA	DVA-230	230.0	16.99	17.59	1.387+j7.693	0.596+j7.017	20.06	20.47	1.021+j7.209	0.577+j6.810
DIANA	DAA-230	230.0	21.79	22.59	1.576+j5.886	1.210+j5.318	25.92	26.73	1.244+j5.495	1.140+j4.989
DISTRIBUCIÓN BMX	BMX-85	85.0	16.22	5.53	0.598+j2.966	2.431+j20.445	19.65	7.16	0.465+j2.708	2.851+j16.880
DONATO GUERRA	DOG-400	400.0	16.30	15.43	2.438+j13.956	1.354+j16.447	23.82	20.66	1.298+j10.585	1.653+j15.322
DONATO GUERRA	DOG-115	115.0	28.10	25.77	0.306+j2.343	0.248+j2.990	35.70	31.31	0.205+j2.036	0.266+j2.884
DONATO GUERRA	DOG-115B	115.0	29.15	26.64	0.313+j2.256	0.258+j2.905	37.27	32.59	0.209+j1.948	0.272+j2.781
DOS CARLOS	DCA-85	85.0	5.68	1.86	2.073+j8.382	9.539+j61.326	6.39	2.22	1.967+j8.214	10.670+j54.970
ECATEPEC	ECA-230	230.0	22.28	19.09	1.064+j5.863	1.641+j8.813	26.45	22.28	0.802+j5.463	1.551+j8.495
EL CARMEN	CRM-85	85.0	5.35	1.49	2.614+j8.801	14.292+j79.256	6.60	3.78	2.360+j7.835	6.831+j25.488
EL CERRILLO	ECR-230	230.0	12.84	11.50	2.182+j10.110	1.857+j13.859	14.97	13.42	1.768+j9.595	1.699+j13.032
EL GALLO	ELG-115	115.0	2.13	1.31	6.966+j30.447	19.645+j87.701	2.98	3.22	4.349+j24.158	1.642+j18.878
EL ROSAL	RSL-230	230.0	15.74	13.22	1.549+j8.293	1.347+j13.229	18.24	15.17	1.233+j7.912	1.289+j12.819
EL SALTO	SAO-230	230.0	5.76	6.16	3.863+j22.732	1.755+j18.529	7.31	7.51	2.679+j19.806	1.718+j18.222
EL SALTO	SAO-85	85.0	8.53	1.41	0.940+j5.673	18.547+j90.724	13.25	13.98	0.488+j4.046	0.228+j3.360
EL VIDRIO	EVD-230	230.0	20.91	16.04	1.203+j6.236	2.372+j11.895	24.66	18.46	0.949+j5.846	2.310+j11.662
ESMERALDA	ESR-230	230.0	18.29	17.92	1.187+j7.163	1.236+j7.619	21.40	20.82	0.919+j6.763	1.170+j7.307
ESMERALDA	ESR-230B	230.0	18.29	17.92	1.187+j7.163	1.236+j7.619	21.40	20.82	0.919+j6.763	1.170+j7.307
ESMERALDA	ESR-85	85.0	9.45	2.88	0.566+j5.161	0.000+j40.867	11.67	3.23	0.466+j4.603	0.000+j40.867
ESTADIO	EST-230	230.0	15.76	15.43	1.468+j8.297	0.851+j8.946	18.50	17.89	1.104+j7.819	0.818+j8.659
ESTRELLA	ETR-230	230.0	21.87	20.04	1.787+j5.803	2.704+j7.263	26.09	23.36	1.481+j5.400	2.686+j7.089
ESTRELLA	ETR-230B	230.0	16.63	13.87	2.015+j7.724	3.237+j12.353	19.54	15.97	1.690+j7.281	3.198+j12.086



Niveles de cortocircuito de la Red Nacional de Transmisión
Gerencia de Control Regional Central

Subestación Eléctrica	Acrónimo	Tensión (kV)	Corriente de cortocircuito (kA) e impedancias de Thévenin secuencias positiva y cero (Ω)							
			NCC mínimo 2026				NCC máximo 2026			
			3F	1F	ZTH(+)	ZTH(0)	3F	1F	ZTH(+)	ZTH(0)
FERROCARRILES NACIONALES	FNL-230	230.0	35.28	34.29	0.792+j3.680	0.609+j4.054	44.15	41.36	0.513+j3.268	0.595+j3.931
FERTIMÉX	FTM-230	230.0	5.94	4.32	3.879+j22.035	11.569+j45.624	8.23	6.06	2.531+j17.566	9.096+j35.950
FISISA	FIS-230	230.0	15.64	12.83	1.529+j8.351	2.581+j13.849	18.17	14.70	1.215+j7.947	2.497+j13.502
FORD MOTOR COMPANY	FMC-85	85.0	22.35	7.06	0.418+j2.156	1.535+j16.401	27.43	9.57	0.308+j1.944	1.956+j12.845
FRANCISCO DE LOS REYES	FRR-115	115.0	1.88	1.15	9.756+j33.927	27.472+j99.615	2.08	1.26	9.668+j33.817	27.472+j99.574
FUNDIDORA MÉXICO	FUM-85	85.0	20.72	6.92	0.457+j2.324	1.441+j16.492	25.14	9.33	0.350+j2.119	1.862+j12.938
GENERAL MOTORS	GMC-85	85.0	12.55	6.65	0.741+j3.840	1.342+j14.277	14.87	7.76	0.634+j3.575	1.442+j13.515
GUACAMAYAS	GMV-115	115.0	9.54	8.96	1.261+j6.848	1.322+j8.110	12.39	11.33	0.986+j5.811	1.179+j7.442
GUADALUPE	GUA-85	85.0	14.62	5.79	0.670+j3.290	2.530+j18.544	17.27	9.16	0.576+j3.072	2.234+j11.201
HÉROES DE CARRANZA	HRC-230	230.0	17.32	13.34	1.212+j7.571	3.222+j14.180	20.82	15.48	0.945+j6.951	3.215+j13.925
HIDALGO	HDG-85	85.0	6.58	2.09	1.751+j7.245	8.697+j54.955	7.48	2.49	1.622+j7.031	9.835+j49.549
HIPÓDROMO	HIP-85	85.0	15.63	5.18	0.563+j3.088	3.223+j21.904	17.94	7.11	0.498+j2.968	3.212+j16.438
HUASTECA	HTC-85	85.0	14.66	4.81	0.652+j3.284	7.164+j22.853	16.77	6.45	0.586+j3.165	7.137+j17.380
HUETAMO	HTM-115	115.0	2.43	1.47	6.734+j26.529	19.069+j78.357	3.13	2.51	4.970+j22.763	7.412+j39.891
HUETAMO	HTM-69	69.0	1.78	2.08	3.271+j22.196	0.638+j12.751	2.08	2.39	2.624+j20.911	0.641+j12.809
INDIANILLA	INN-85	85.0	8.77	0.17	0.655+j5.555	0.458+j-876.784	10.18	0.19	0.584+j5.271	0.458+j-876.784
INDUSTRIA DE LA DEFENSA NAL.	IDN-85	85.0	15.97	5.14	0.604+j3.013	5.336+j21.889	18.35	7.01	0.539+j2.893	5.315+j16.419
INDUSTRIA MILITAR	INM-85	85.0	9.76	3.92	1.030+j4.922	4.739+j27.093	11.01	5.06	0.963+j4.805	4.753+j21.713
INDUSTRIAL SAN CRISTÓBAL	ISC-85	85.0	14.50	5.42	0.627+j3.326	2.742+j20.205	17.48	9.48	0.508+j3.045	1.463+j10.817
INDUSTRIAS UNIDAS S. A.	INU-115	115.0	9.50	7.29	1.347+j6.855	2.409+j13.122	10.67	8.12	1.260+j6.728	2.411+j13.074
INFIERNILLO	IFR-69	69.0	0.86	0.90	21.060+j41.093	6.639+j41.962	0.99	1.02	20.401+j39.278	6.865+j41.597
INSURGENTES	INS-85	85.0	17.68	6.68	0.554+j2.720	1.688+j16.415	21.49	12.26	0.447+j2.472	1.043+j8.125
IROLO	IRO-230	230.0	13.01	10.01	1.664+j10.074	3.386+j19.141	15.02	11.44	1.415+j9.623	3.243+j18.613
IUSASOL 1	IUN-115	115.0	15.00	13.87	0.669+j4.375	0.438+j5.504	17.05	15.60	0.582+j4.245	0.440+j5.457
IXTAPALUCA	IXL-230	230.0	21.40	20.58	1.133+j6.102	0.730+j6.933	25.02	23.77	0.865+j5.773	0.707+j6.727
IXTAPAN DE LA SAL	IXS-115	115.0	2.35	1.35	5.686+j27.681	19.105+j88.967	4.19	2.82	3.585+j17.040	9.360+j41.843
IXTAPANTONGO	IXT-115	115.0	11.06	8.26	1.137+j5.894	2.232+j11.902	13.97	11.60	0.867+j5.155	1.257+j8.291
IXTLAHUACA DOS	ITD-115	115.0	10.22	7.88	1.213+j6.381	1.753+j12.167	11.48	8.78	1.125+j6.259	1.755+j12.121
IZTAPALAPA	IZT-230	230.0	20.30	18.48	1.278+j6.415	1.031+j8.433	24.15	21.57	0.953+j5.972	0.992+j8.166
JABÓN LA CORONA	JLC-230	230.0	23.12	20.19	1.017+j5.652	1.411+j8.137	27.35	23.44	0.761+j5.287	1.359+j7.902
JAMAICA	JAM-230	230.0	19.17	19.74	1.378+j6.790	0.822+j6.297	22.54	23.09	1.065+j6.392	0.768+j5.972
JAMAICA	JAM-85	85.0	9.47	0.17	0.501+j5.160	0.041+j-877.953	11.03	0.19	0.431+j4.875	0.041+j-877.953
JASSO	JAS-230	230.0	26.54	22.27	0.755+j4.945	1.190+j7.796	33.39	27.26	0.489+j4.348	1.154+j7.225
JASSO	JAS-85	85.0	14.87	2.49	0.399+j3.276	6.333+j52.096	17.33	2.87	0.338+j3.097	7.355+j49.679
JILOTEPEC	JIL-115	115.0	13.54	11.37	0.617+j4.865	0.852+j7.662	15.07	12.58	0.563+j4.814	0.856+j7.675
JILOTEPEC INDUSTRIAL	JID-115	115.0	12.76	10.35	0.662+j5.163	1.196+j8.749	14.16	11.43	0.609+j5.120	1.200+j8.767
JILOTEPEC POTENCIA	JIP-400	400.0	16.35	14.11	1.872+j13.999	2.590+j20.612	19.39	16.17	1.306+j13.033	2.635+j20.695
JILOTEPEC POTENCIA	JIP-230	230.0	23.07	24.09	0.857+j5.692	0.532+j4.990	27.71	28.16	0.631+j5.234	0.542+j4.977
JILOTEPEC POTENCIA	JIP-115	115.0	16.72	16.35	0.421+j3.947	0.274+j4.232	18.62	18.10	0.368+j3.904	0.278+j4.251
JOROBAS	JRB-230	230.0	26.55	20.88	0.852+j4.928	1.821+j8.900	32.96	25.09	0.586+j4.392	1.762+j8.425



Niveles de cortocircuito de la Red Nacional de Transmisión
Gerencia de Control Regional Central

Subestación Eléctrica	Acrónimo	Tensión (kV)	Corriente de cortocircuito (kA) e impedancias de Thévenin secuencias positiva y cero (Ω)							
			NCC mínimo 2026				NCC máximo 2026			
			3F	1F	ZTH(+)	ZTH(0)	3F	1F	ZTH(+)	ZTH(0)
JUANDO	JUA-85	85.0	6.56	2.19	2.208+j7.151	7.079+j52.045	7.36	2.53	2.133+j7.018	8.168+j48.675
JUCHITEPEC	JCP-85	85.0	6.45	1.41	1.596+j7.436	9.307+j88.682	7.23	1.56	1.530+j7.312	9.307+j88.682
JUGOS DEL VALLE	JDV-85	85.0	7.03	3.09	2.155+j6.645	5.282+j33.452	8.83	3.80	1.582+j5.902	5.697+j29.850
JUGOSMEX	JMX-85	85.0	17.69	6.48	0.549+j2.719	2.057+j17.066	21.19	10.05	0.452+j2.507	1.934+j10.848
KILOMETRO 110	KMC-230	230.0	9.82	9.84	2.190+j13.347	1.813+j13.353	12.04	11.70	1.640+j12.023	1.760+j13.051
KILOMETRO 110	KMC-85	85.0	9.30	2.50	0.962+j5.186	4.119+j48.218	11.44	5.12	0.829+j4.644	4.100+j21.777
KILOMETRO 42	KCD-85	85.0	2.11	0.84	9.309+j21.298	50.965+j117.190	2.38	1.17	9.172+j20.751	44.556+j81.661
KILOMETRO 48	KCO-85	85.0	4.30	2.46	2.015+j11.227	6.067+j36.557	6.20	3.58	1.605+j8.552	4.746+j27.328
KILOMETRO CERO	KCR-230	230.0	22.36	20.87	1.069+j5.841	0.894+j7.177	26.56	24.60	0.792+j5.443	0.819+j6.771
LA CEIBA	LAC-115	115.0	2.57	1.59	5.972+j25.099	16.589+j71.490	3.50	3.28	3.986+j20.512	3.643+j24.801
LA COSTEÑA	LCT-85	85.0	17.34	6.39	0.528+j2.781	1.933+j17.275	20.88	10.81	0.426+j2.550	1.391+j9.711
LA ESTANCIA	LES-115	115.0	6.09	4.17	2.875+j10.511	6.922+j24.978	7.03	4.75	2.691+j10.037	6.839+j24.362
LA LOMA	LOM-85	85.0	14.42	5.47	0.714+j3.327	2.920+j19.926	16.48	7.36	0.646+j3.211	3.121+j15.131
LA MIRA	MIR-115	115.0	6.64	5.53	2.228+j9.748	2.917+j15.688	8.16	6.61	1.938+j8.736	2.763+j15.003
LA PAZ	LAP-400	400.0	27.31	26.56	1.823+j8.257	0.961+j9.190	35.07	32.24	1.086+j7.162	0.952+j9.106
LA PAZ	LAP-230	230.0	27.70	29.72	0.947+j4.700	0.361+j3.824	33.03	34.87	0.681+j4.370	0.350+j3.711
LA QUEBRADA	LAQ-85	85.0	17.20	6.41	0.614+j2.787	2.032+j17.148	20.19	8.76	0.521+j2.623	2.399+j12.910
LAFARGE	LFG-230	230.0	21.21	15.57	0.918+j6.193	2.287+j12.864	25.80	18.34	0.651+j5.624	2.251+j12.372
LAGO	LGO-400	400.0	24.43	14.98	1.625+j9.312	4.073+j27.048	30.69	17.39	0.982+j8.219	4.050+j26.957
LAGO	LGO-230	230.0	22.54	22.65	0.892+j5.824	0.919+j5.741	26.46	26.28	0.647+j5.483	0.895+j5.568
LAGO DE GUADALUPE	LDG-230	230.0	28.56	24.26	0.930+j4.556	1.086+j7.048	34.79	28.44	0.646+j4.149	1.069+j6.929
LAS AMÉRICAS	LAR-230	230.0	25.24	17.83	0.853+j5.192	2.490+j11.566	30.80	20.79	0.587+j4.706	2.480+j11.343
LÁZARO CÁRDENAS DISTRIBUCIÓN	LCD-115	115.0	9.44	8.95	1.283+j6.916	1.282+j7.981	12.27	11.20	1.013+j5.868	1.245+j7.534
LÁZARO CÁRDENAS POTENCIA	LCP-400	400.0	11.77	12.68	2.916+j19.398	0.902+j14.384	29.63	32.49	0.600+j8.553	0.313+j5.594
LÁZARO CÁRDENAS POTENCIA	LCP-230	230.0	16.36	18.98	1.383+j7.996	0.216+j4.360	32.86	37.45	0.410+j4.427	0.141+j2.640
LÁZARO CÁRDENAS POTENCIA	LCP-115	115.0	14.19	15.13	0.546+j4.649	0.202+j3.700	20.45	21.06	0.299+j3.560	0.189+j3.233
LECHERÍA	LEC-85	85.0	24.67	7.93	0.419+j1.945	1.241+j14.572	29.86	11.30	0.325+j1.778	1.650+j10.594
LERMA	LER-85	85.0	0.86	0.46	14.706+j54.901	50.752+j200.452	2.56	2.80	2.344+j20.950	0.338+j10.286
LIQUIMEX	LQX-85	85.0	9.61	3.97	1.497+j4.884	4.802+j26.526	12.01	4.98	1.148+j4.347	5.216+j22.929
LOMAS VERDES	LVE-230	230.0	22.85	19.10	1.169+j5.693	1.609+j9.094	27.25	22.24	0.869+j5.290	1.544+j8.844
LOS REYES	RES-230	230.0	25.18	26.10	1.015+j5.174	0.500+j4.718	29.83	30.38	0.747+j4.840	0.489+j4.608
LOS REYES	RES-85	85.0	17.45	2.47	0.453+j2.775	1.987+j54.060	20.11	2.72	0.396+j2.655	1.987+j54.060
MADERO	MAD-230	230.0	23.33	22.70	0.959+j5.612	1.156+j6.065	27.52	26.41	0.710+j5.261	1.122+j5.880
MAGDALENA	MAG-230	230.0	25.00	25.04	1.094+j5.199	0.803+j5.240	30.10	29.69	0.783+j4.789	0.760+j4.997
MAGDALENA	MAG-85	85.0	19.26	2.06	0.408+j2.515	5.748+j66.112	23.31	2.28	0.312+j2.295	5.748+j66.112
MANIOBRAS EVM II	VMA-400	400.0	23.06	21.33	1.393+j9.917	1.256+j12.393	28.42	25.35	0.862+j8.896	1.234+j12.104
MANIOBRAS EVM II	VMA-230	230.0	19.61	15.61	1.055+j6.688	1.810+j11.917	22.89	17.89	0.842+j6.324	1.756+j11.658
MERCEDE (A)	MER-230	230.0	17.38	17.08	1.548+j7.480	1.173+j7.987	20.32	19.84	1.234+j7.083	1.109+j7.626
MERCEDE (B)	MER-230B	230.0	17.38	17.08	1.548+j7.480	1.173+j7.987	20.32	19.84	1.234+j7.083	1.109+j7.626
MILAGROS	MGR-85	85.0	12.36	2.29	0.761+j3.897	2.634+j56.267	14.09	2.53	0.696+j3.768	2.634+j56.267



**Niveles de cortocircuito de la Red Nacional de Transmisión
Gerencia de Control Regional Central**

Subestación Eléctrica	Acrónimo	Tensión (kV)	Corriente de cortocircuito (kA) e impedancias de Thévenin secuencias positiva y cero (Ω)							
			NCC mínimo 2026				NCC máximo 2026			
			3F	1F	ZTH(+)	ZTH(0)	3F	1F	ZTH(+)	ZTH(0)
MILLÁN DOS	MDO-400	400.0	15.50	14.10	2.487+j14.688	1.461+j19.241	21.94	18.33	1.359+j11.500	1.709+j18.203
MINERA TIZAPA	MTI-115	115.0	7.34	5.58	1.753+j8.871	3.153+j17.310	8.88	7.03	1.457+j8.095	2.468+j14.475
MOCTEZUMA	MZA-85	85.0	7.87	2.57	0.847+j6.177	1.266+j44.922	9.56	2.88	0.735+j5.601	1.266+j44.922
MORALES	MOS-230	230.0	29.56	28.35	1.093+j4.358	2.711+j4.458	36.28	33.79	0.784+j3.949	2.646+j4.360
MORALES	MOS-85	85.0	17.41	5.49	0.497+j2.774	3.028+j20.961	20.07	7.65	0.432+j2.654	3.017+j15.495
MORELOS	MOR-230	230.0	11.21	8.97	1.902+j11.688	3.732+j20.402	12.79	10.19	1.596+j11.312	3.568+j19.824
NACEL Y NACOBRE	NYN-85	85.0	12.24	5.19	0.859+j3.915	2.778+j20.174	14.13	6.74	0.779+j3.739	3.191+j16.082
NARVARTE	NAR-230	230.0	22.22	23.09	1.514+j5.781	1.234+j5.159	26.47	27.37	1.181+j5.390	1.161+j4.832
NAUCALPAN	NAU-85	85.0	17.45	6.35	0.561+j2.755	1.679+j17.492	20.39	10.01	0.486+j2.602	1.421+j10.790
NECAXA	NEC-85A	85.0	7.83	1.37	1.145+j6.162	19.096+j92.626	11.87	11.84	0.671+j4.497	0.498+j4.484
NECAXA	NEC-85B	85.0	7.83	1.37	1.145+j6.162	19.096+j92.626	11.86	11.82	0.675+j4.503	0.498+j4.484
NECAXA	NEC-85C	85.0	7.83	1.37	1.145+j6.162	19.096+j92.626	11.86	11.82	0.675+j4.503	0.498+j4.484
NECAXA	NEC-85D	85.0	7.83	1.37	1.145+j6.162	19.096+j92.626	11.91	11.86	0.664+j4.484	0.498+j4.484
NESTLÉ	NLE-85	85.0	11.89	6.17	0.802+j4.050	1.566+j15.535	13.95	7.14	0.698+j3.807	1.668+j14.846
NETZAHUALCÓYOTL	NET-85	85.0	14.34	2.42	0.627+j3.365	1.923+j54.021	16.44	2.67	0.564+j3.235	1.923+j54.021
NISSAN	NIS-85	85.0	10.08	5.00	1.019+j4.760	2.554+j19.541	11.64	5.69	0.916+j4.545	2.658+j18.989
NOCHISTONGO	NOC-230	230.0	32.14	27.08	0.738+j4.065	1.185+j6.343	40.80	32.88	0.473+j3.549	1.173+j6.054
NOCHISTONGO	NOC-115	115.0	7.53	6.91	1.047+j8.752	0.812+j11.170	8.43	7.71	0.971+j8.613	0.803+j11.060
NONOALCO	NON-85	85.0	24.97	7.93	0.353+j1.933	1.200+j14.600	32.40	19.46	0.243+j1.648	0.274+j4.994
NOPALA	NOP-400	400.0	27.29	28.20	1.961+j8.232	0.819+j7.636	36.34	35.32	1.113+j6.902	0.822+j7.531
NOPALA	NOP-230A	230.0	29.00	28.11	0.955+j4.479	0.693+j4.975	35.39	33.11	0.652+j4.075	0.695+j4.929
NOPALA	NOP-230B	230.0	29.00	28.11	0.955+j4.479	0.693+j4.975	35.39	33.11	0.652+j4.075	0.695+j4.929
NOPALA	NOP-230C	230.0	29.09	28.43	0.952+j4.464	0.661+j4.851	35.52	33.50	0.649+j4.061	0.664+j4.808
NUEVA XCALA	NXM-230	230.0	9.86	9.90	1.965+j13.324	2.277+j13.134	11.78	11.50	1.553+j12.303	2.274+j13.108
NUEVO FANAL	NFA-85	85.0	19.51	6.87	0.535+j2.457	1.811+j16.310	23.12	9.51	0.442+j2.293	2.191+j12.170
NUTRIGO	NTG-115	115.0	8.23	6.01	1.649+j7.893	2.982+j16.739	9.21	6.68	1.561+j7.772	2.985+j16.693
OCEANÍA	OCE-230	230.0	16.38	15.33	1.697+j7.930	3.229+j9.284	19.07	17.73	1.383+j7.532	3.165+j8.923
OCEANÍA	OCE-230B	230.0	15.13	12.26	1.604+j8.630	9.176+j12.804	17.52	14.04	1.335+j8.230	9.051+j12.470
ODÓN DE BUEN	ODB-230	230.0	15.01	12.80	1.729+j8.674	2.335+j13.231	17.41	14.79	1.393+j8.275	2.191+j12.649
OLIVAR	OLI-230	230.0	23.19	23.13	1.329+j5.571	0.999+j5.691	27.70	27.29	0.997+j5.178	0.959+j5.420
OTUMBA	OTM-230	230.0	18.62	14.68	1.113+j7.044	1.961+j12.797	21.70	16.82	0.898+j6.673	1.901+j12.514
PACHUCA	PAC-85	85.0	8.88	2.42	1.417+j5.341	7.129+j49.212	10.12	2.98	1.313+j5.169	8.261+j42.862
PACHUCA POTENCIA	PHP-400	400.0	11.18	8.38	2.273+j20.534	6.442+j40.912	13.31	9.73	1.588+j19.020	6.280+j39.682
PACHUCA POTENCIA	PHP-230	230.0	9.42	9.74	1.701+j13.993	1.229+j12.694	10.98	11.24	1.358+j13.236	1.166+j12.324
PALIZADA	PLZ-115	115.0	8.07	5.26	2.192+j7.931	5.673+j20.646	9.11	5.86	2.101+j7.734	5.679+j20.585
PANTITLAN	PNT-85	85.0	10.62	2.07	0.974+j4.519	4.356+j61.724	12.07	2.29	0.901+j4.380	4.356+j61.724
PAPELERA EL NEVADO	PDO-115	115.0	4.11	2.45	3.419+j15.789	9.768+j48.147	4.64	2.72	3.260+j15.416	9.783+j48.009
PAPELERA SAN RAFAEL	PSR-85	85.0	3.94	1.13	3.229+j12.019	14.403+j103.996	4.39	1.25	3.162+j11.896	14.403+j103.996
PAPELES HIGIÉNICOS DEL CENTRO	PHC-230	230.0	11.16	8.23	1.918+j11.742	4.604+j24.244	12.87	9.36	1.647+j11.226	4.477+j23.768
PARQUE INDUSTRIAL	PQI-115	115.0	6.70	5.33	1.643+j9.768	2.935+j17.334	7.47	5.92	1.570+j9.644	2.929+j17.249



Niveles de cortocircuito de la Red Nacional de Transmisión Gerencia de Control Regional Central

Subestación Eléctrica	Acrónimo	Tensión (kV)	Corriente de cortocircuito (kA) e impedancias de Thévenin secuencias positiva y cero (Ω)							
			NCC mínimo 2026				NCC máximo 2026			
			3F	1F	ZTH(+)	ZTH(0)	3F	1F	ZTH(+)	ZTH(0)
PARQUE INDUSTRIAL REFORMA	PIR-85	85.0	10.23	2.23	0.937+j4.705	9.063+j55.559	11.91	2.92	0.826+j4.455	10.547+j45.265
PASO DE CORTES	PDC-115	115.0	2.64	1.60	7.933+j23.914	22.539+j70.720	2.92	1.76	7.848+j23.773	22.528+j70.626
PATERA	PAT-85	85.0	13.33	5.50	0.686+j3.617	2.269+j19.267	15.45	7.23	0.606+j3.441	2.682+j15.175
PATLA	PTL-85	85.0	5.63	1.23	2.060+j8.469	22.391+j99.995	8.23	7.74	1.350+j6.418	1.360+j7.622
PEMEX	PMX-230	230.0	28.89	26.84	0.723+j4.540	0.558+j5.630	37.46	34.85	0.454+j3.873	0.456+j4.744
PEMEX	PEX-85	85.0	14.55	4.73	0.659+j3.308	8.527+j22.924	16.64	6.30	0.593+j3.188	8.499+j17.451
PEMEX	PEX-85B	85.0	7.10	0.17	0.768+j6.873	0.187+j-877.409	8.15	0.19	0.698+j6.588	0.187+j-877.409
PEMEX -ZONA LCP	PMX-115	115.0	5.32	4.80	2.578+j12.200	3.583+j16.076	6.42	5.65	2.316+j11.132	3.570+j15.644
PEMEX -ZONA TUL	PMX-115	115.0	6.15	5.72	0.362+j10.794	0.661+j13.225	8.49	10.08	0.217+j8.600	0.226+j4.516
PEMEX AZCAPOTZALCO	PXA-85	85.0	15.81	6.04	0.609+j3.044	1.818+j18.112	18.50	9.68	0.528+j2.869	1.428+j10.812
PENSADOR	PEN-230	230.0	20.83	18.38	1.173+j6.267	2.889+j8.517	24.60	21.54	0.897+j5.870	2.769+j8.091
PENSADOR MEXICANO	PSD-85	85.0	6.86	4.17	1.294+j7.031	2.376+j20.851	8.64	5.21	1.092+j6.148	2.279+j18.385
PENWALT	PEW-85	85.0	18.94	7.12	0.490+j2.545	1.552+j15.442	22.61	11.18	0.401+j2.353	1.532+j9.586
PERALVILLO	PEV-230	230.0	17.29	15.60	1.252+j7.577	4.012+j9.554	20.17	18.04	0.984+j7.177	3.888+j9.221
PITIRERA	PIT-400	400.0	10.95	10.43	3.053+j20.859	2.970+j23.317	25.65	26.90	0.746+j9.875	0.611+j7.877
PITIRERA	PIT-230A	230.0	10.98	11.85	1.548+j11.994	0.716+j9.090	17.24	17.95	0.671+j8.444	0.462+j7.335
PITIRERA	PIT-230B	230.0	10.98	11.85	1.548+j11.994	0.716+j9.090	17.24	17.95	0.671+j8.444	0.462+j7.335
PITIRERA	PIT-230C	230.0	10.98	11.85	1.548+j11.994	0.716+j9.090	17.24	17.95	0.671+j8.444	0.462+j7.335
PITIRERA	PIT-230D	230.0	10.98	11.85	1.548+j11.994	0.716+j9.090	17.24	17.95	0.671+j8.444	0.462+j7.335
PLACERES DEL ORO	PLO-115	115.0	1.63	0.96	11.286+j39.146	34.912+j121.494	1.91	1.24	10.109+j36.867	26.326+j97.177
POLANCO	POO-230	230.0	31.42	30.04	0.985+j4.110	2.619+j4.221	38.83	35.99	0.675+j3.700	2.554+j4.123
PROCTER & GAMBLE	PYG-230	230.0	26.18	20.46	0.873+j4.997	2.027+j9.106	32.44	24.55	0.607+j4.461	1.969+j8.632
PRODUCTORA MEXICANA DE TUB.	PMT-115	115.0	6.58	5.77	2.095+j9.865	2.868+j13.936	8.11	6.88	1.823+j8.816	2.839+j13.512
PROPIMEX	PRO-85	85.0	12.14	6.21	0.790+j3.964	1.464+j15.587	14.23	7.16	0.687+j3.729	1.570+j14.959
PUESTO CENTRAL DE CONTROL	PCC-85	85.0	8.59	0.17	0.685+j5.673	0.566+j-876.484	9.95	0.19	0.614+j5.388	0.566+j-876.484
PUESTO CENTRAL DE CONTROL	PCC-85B	85.0	19.94	6.42	0.522+j2.405	6.104+j16.978	25.00	12.40	0.412+j2.119	5.158+j7.364
REFORMA	REF-85	85.0	11.76	4.52	0.878+j4.080	4.004+j23.905	13.34	5.99	0.812+j3.964	4.018+j18.526
REMEDIOS	REM-230	230.0	37.56	41.64	0.872+j3.426	0.294+j2.498	47.61	51.14	0.564+j3.016	0.286+j2.415
REMEDIOS	REM-85	85.0	31.37	8.28	0.280+j1.539	1.078+j14.635	37.63	13.28	0.217+j1.418	1.095+j9.260
ROBERT BOSCH	RBS-85	85.0	11.93	6.27	0.793+j4.035	1.492+j15.224	14.04	7.26	0.688+j3.784	1.591+j14.508
SAFIMEX	SAF-85	85.0	12.79	6.48	0.755+j3.763	1.230+j15.039	15.02	7.47	0.653+j3.535	1.330+j14.430
SAN ANDRÉS	ANS-85	85.0	13.52	1.90	0.660+j3.570	6.967+j69.977	15.88	2.10	0.563+j3.353	6.967+j69.977
SAN ÁNGEL	SNG-230	230.0	24.17	25.05	1.312+j5.334	0.849+j4.855	28.99	29.77	0.980+j4.942	0.809+j4.567
SAN BERNABÉ	BRN-400	400.0	26.58	26.20	2.023+j8.449	1.129+j9.038	34.99	32.33	1.170+j7.166	1.127+j8.961
SAN BERNABÉ	BRN-230	230.0	28.83	30.53	1.069+j4.480	0.399+j3.847	35.24	36.35	0.742+j4.078	0.391+j3.748
SAN FELIPE DEL PROGRESO	FPG-115	115.0	4.32	2.79	3.746+j14.904	9.634+j39.386	4.80	3.09	3.659+j14.777	9.637+j39.339
SAN FRANCISCO	SSO-85	85.0	11.50	6.79	0.824+j4.187	1.049+j13.147	13.60	7.94	0.711+j3.904	1.139+j12.401
SAN FRANCISCO SOYANIQUILPAN	SFS-230	230.0	12.39	10.88	1.622+j10.592	2.467+j14.966	14.92	12.72	1.275+j9.704	2.476+j14.665
SAN ISIDRO	ISO-115	115.0	6.53	5.28	2.272+j9.903	3.384+j16.955	8.02	6.30	1.982+j8.891	3.220+j16.251
SAN MATEO	SMT-115	115.0	5.03	2.99	2.635+j12.925	7.504+j39.436	5.71	3.34	2.477+j12.550	7.519+j39.298



Niveles de cortocircuito de la Red Nacional de Transmisión
Gerencia de Control Regional Central

Subestación Eléctrica	Acrónimo	Tensión (kV)	Corriente de cortocircuito (kA) e impedancias de Thévenin secuencias positiva y cero (Ω)							
			NCC mínimo 2026				NCC máximo 2026			
			3F	1F	ZTH(+)	ZTH(0)	3F	1F	ZTH(+)	ZTH(0)
SAN SEBASTIÁN	SSE-115	115.0	4.43	3.04	3.571+j14.557	10.563+j33.915	4.91	3.36	3.496+j14.462	10.562+j33.903
SANTA CRUZ	CRU-400	400.0	26.46	25.53	1.900+j8.518	1.207+j9.668	33.87	30.91	1.140+j7.413	1.193+j9.579
SANTA CRUZ	CRU-230	230.0	29.59	33.32	0.980+j4.380	0.292+j2.994	36.22	40.23	0.674+j3.977	0.274+j2.820
SANTA FÉ	SFE-230	230.0	23.60	21.84	1.330+j5.468	1.284+j6.878	28.24	25.63	1.006+j5.073	1.229+j6.639
SANTIAGO TLAUTLA	STU-115	115.0	5.20	3.65	3.260+j12.345	7.294+j28.069	5.77	4.04	3.190+j12.241	7.291+j28.011
SECRETARÍA DE SEGURIDAD PÚBLICA	SSP-85	85.0	10.21	4.06	0.989+j4.705	4.517+j26.297	11.53	5.26	0.923+j4.588	4.532+j20.917
SEDENA	EDN-85	85.0	15.88	6.13	0.703+j3.009	2.107+j17.723	18.46	9.52	0.628+j2.856	1.848+j11.021
SMURFIT KAPPA	SKP-85	85.0	10.24	4.36	0.850+j4.718	3.598+j23.907	11.72	5.45	0.773+j4.539	4.082+j20.076
SUBESTACIÓN CINCO BOMBEO	ENB-115	115.0	12.37	8.27	0.872+j5.297	2.254+j13.138	14.95	9.52	0.715+j4.831	2.268+j13.038
SUBESTACIÓN CUATRO BOMBEO	ECB-115	115.0	25.45	21.07	0.365+j2.583	0.529+j4.198	32.11	25.25	0.259+j2.260	0.546+j4.083
SUBESTACIÓN DOS BOMBEO	EDB-115	115.0	13.76	9.70	0.814+j4.755	1.888+j10.711	16.82	11.69	0.659+j4.291	1.748+j9.891
SUBESTACIÓN SEIS BOMBEO	ESB-115	115.0	13.88	10.76	0.770+j4.720	1.227+j8.854	16.61	12.42	0.646+j4.350	1.235+j8.752
SUBESTACIÓN TRES BOMBEO	ETB-115	115.0	21.69	16.63	0.447+j3.028	0.842+j5.789	26.95	19.62	0.336+j2.689	0.858+j5.674
SUBESTACIÓN UNO BOMBEO	EUB-115	115.0	10.58	10.11	1.079+j6.182	0.738+j7.128	12.54	11.87	0.939+j5.747	0.717+j6.767
TACUBA	TAC-85	85.0	16.80	6.32	0.588+j2.861	1.711+j17.409	20.07	11.15	0.493+j2.644	1.088+j9.084
TACUBAYA	TYA-230	230.0	22.34	22.87	1.433+j5.769	1.075+j5.431	26.61	27.07	1.101+j5.377	1.013+j5.108
TACUBAYA	TYA-85	85.0	9.45	3.84	1.068+j5.083	5.046+j27.538	10.65	4.93	1.002+j4.967	5.060+j22.158
TAXQUEÑA	TAX-230B	230.0	13.53	10.99	1.805+j9.649	2.752+j16.402	15.61	12.65	1.470+j9.243	2.576+j15.708
TAXQUEÑA	TAX-230	230.0	13.53	10.99	1.805+j9.649	2.752+j16.402	15.61	12.65	1.470+j9.243	2.576+j15.708
TAXQUEÑA	TAX-85	85.0	12.82	1.80	0.591+j3.782	8.191+j73.855	14.96	1.99	0.505+j3.574	8.191+j73.855
TECÁMAC	TCM-230	230.0	16.62	13.69	1.106+j7.913	1.593+j13.035	19.36	15.87	0.856+j7.496	1.500+j12.442
TECAMACHALCO	TEH-230	230.0	23.75	20.79	1.367+j5.422	1.786+j7.779	28.47	24.23	1.049+j5.023	1.748+j7.623
TEJUPILCO	TJP-115	115.0	7.80	6.46	1.794+j8.320	2.703+j13.536	9.33	7.73	1.551+j7.676	2.570+j12.395
TEOLOAPAN	TLP-69	69.0	0.84	1.05	17.651+j44.136	2.367+j19.028	0.94	1.18	16.969+j43.157	2.344+j18.918
TENANGO DEL VALLE	TDV-85	85.0	5.23	3.34	2.268+j9.105	3.022+j25.268	5.94	3.74	2.137+j8.837	3.102+j24.916
TEOTIHUACÁN	TTH-400	400.0	32.03	31.99	1.415+j7.069	0.726+j7.245	42.21	39.84	0.782+j5.968	0.721+j7.047
TEOTIHUACÁN	TTH-230	230.0	35.80	33.60	0.666+j3.649	0.542+j4.429	43.64	39.63	0.446+j3.317	0.533+j4.340
TEPEXIC	TEP-85	85.0	7.07	1.33	1.469+j6.780	19.874+j95.115	10.61	10.26	0.920+j5.006	0.703+j5.499
TEXCALTITLÁN	TTT-115	115.0	5.68	4.66	2.462+j11.424	3.804+j18.984	6.90	5.66	2.107+j10.381	3.499+j17.132
TEXCOCO	TEX-400	400.0	33.26	34.20	1.478+j6.785	0.633+j6.399	44.42	42.84	0.810+j5.661	0.635+j6.321
TEXCOCO	TEX-230	230.0	43.50	44.82	0.609+j2.991	0.332+j2.782	54.49	53.78	0.382+j2.653	0.333+j2.769
TIANGUISTENCO	TIA-230	230.0	10.25	8.60	2.669+j12.683	3.002+j20.211	11.86	9.87	2.215+j12.115	2.854+j19.551
TINGAMBATO	TIN-115	115.0	5.68	4.72	2.223+j11.468	3.556+j18.522	7.41	6.97	1.579+j9.725	1.595+j11.498
TIQUICHEO	TQC-115	115.0	1.90	1.16	7.989+j34.101	22.681+j99.206	2.42	1.93	5.993+j29.524	9.572+j52.207
TIZAPA MANIOBRAS	TMA-115	115.0	8.09	6.33	1.592+j8.050	2.692+j14.825	9.89	8.12	1.297+j7.273	2.007+j11.991
TIZAYUCA	TIZ-230	230.0	15.24	12.01	1.243+j8.627	2.104+j15.619	17.77	13.90	0.978+j8.161	1.986+j14.947
TLAPEHUALA	TPA-115	115.0	2.45	1.46	8.116+j25.846	24.492+j78.565	2.99	2.14	6.800+j23.454	13.818+j51.696
TLATELULCO MÓVIL	TTO-85	85.0	9.12	5.98	1.106+j5.269	1.196+j13.851	10.62	6.91	0.988+j4.988	1.270+j13.195
TOLUCA	TOL-230	230.0	15.04	14.61	1.825+j8.641	1.059+j9.573	17.79	16.99	1.408+j8.091	1.021+j9.305
TOLUCA	TOL-85	85.0	14.43	7.82	0.607+j3.346	0.650+j12.039	17.41	9.29	0.498+j3.060	0.742+j11.206



Niveles de cortocircuito de la Red Nacional de Transmisión Gerencia de Control Regional Central

Subestación Eléctrica	Acrónimo	Tensión (kV)	Corriente de cortocircuito (kA) e impedancias de Thévenin secuencias positiva y cero (Ω)							
			NCC mínimo 2026				NCC máximo 2026			
			3F	1F	ZTH(+)	ZTH(0)	3F	1F	ZTH(+)	ZTH(0)
TOLUCA 2000	TDK-230	230.0	11.77	9.91	2.306+j11.044	2.196+j17.523	13.60	11.43	1.914+j10.565	2.052+j16.751
TOPILEJO	TOP-400	400.0	27.83	27.66	1.876+j8.085	1.196+j8.407	36.24	33.92	1.094+j6.924	1.192+j8.358
TOPILEJO	TOP-230	230.0	23.78	23.56	1.066+j5.482	0.567+j5.737	28.31	27.46	0.762+j5.103	0.558+j5.614
TOTOLTEPEC	TTC-230	230.0	14.34	13.37	2.009+j9.038	1.553+j11.193	16.90	15.63	1.585+j8.499	1.461+j10.642
TRATAMIENTO AGUAS RESIDUALES	RAT-230	230.0	25.99	21.77	0.783+j5.048	1.342+j7.978	32.24	26.03	0.523+j4.501	1.349+j7.656
TREN INTERURBANO MÉXICO-TOLUCA DOS	TTD-230	230.0	21.11	19.24	1.331+j6.148	1.516+j7.986	25.02	22.30	1.001+j5.751	1.498+j7.827
TREN INTERURBANO MÉXICO-TOLUCA UNO	TTU-230	230.0	15.02	11.86	1.595+j8.696	3.142+j15.586	17.48	13.48	1.253+j8.263	3.133+j15.471
TREN SUBURBANO	TSU-230	230.0	23.99	20.98	1.014+j5.441	1.858+j7.706	29.00	24.86	0.713+j4.985	1.752+j7.362
TRIMEX	TRX-85	85.0	18.13	5.99	0.532+j2.654	2.298+j19.051	22.45	7.89	0.387+j2.373	2.716+j15.480
TULA	TUL-400	400.0	28.37	24.51	1.459+j8.009	1.709+j11.873	39.72	37.57	0.711+j6.355	0.715+j7.447
TULA	TUL-230	230.0	36.62	37.99	0.583+j3.579	0.261+j3.233	49.54	53.81	0.318+j2.931	0.129+j2.234
TULANCINGO	TLG-85	85.0	6.31	2.10	2.544+j7.351	7.394+j54.456	7.31	3.42	2.425+j6.971	7.386+j31.837
VALLE DE MÉXICO (230 KV)	VAE-230	230.0	46.21	48.26	0.558+j2.819	0.327+j2.502	56.71	57.57	0.369+j2.549	0.317+j2.445
VALLE DE MÉXICO (85 KV)	VDM-85	85.0	11.47	4.07	0.706+j4.219	3.906+j27.347	14.57	8.99	0.519+j3.669	0.819+j10.577
VALLE SAN PEDRO	VAP-230	230.0	27.09	21.53	0.857+j4.826	1.640+j8.554	31.97	24.70	0.645+j4.523	1.617+j8.460
VALLE TULANCINGO	VTU-85	85.0	4.87	1.93	2.916+j9.654	7.983+j55.563	5.59	3.16	2.794+j9.237	7.901+j30.905
VALLEJO	VAJ-230	230.0	23.99	20.98	1.014+j5.441	1.858+j7.706	29.00	24.86	0.713+j4.985	1.752+j7.362
VALLEJO	VAJ-85	85.0	16.84	6.34	0.460+j2.878	1.565+j17.335	19.82	8.48	0.385+j2.697	2.049+j13.505
VERÓNICA	VRN-230	230.0	20.34	19.06	1.296+j6.398	1.647+j7.683	24.00	22.35	1.019+j6.001	1.570+j7.275
VERÓNICA	VRN-85	85.0	14.05	4.88	0.671+j3.427	3.550+j22.921	16.05	6.60	0.606+j3.307	3.538+j17.454
VERÓNICA	VRN-85B	85.0	7.28	0.17	0.723+j6.703	0.053+j-877.911	8.37	0.19	0.652+j6.418	0.053+j-877.911
VERTIZ	VER-230	230.0	18.57	18.36	1.412+j7.008	2.044+j7.137	21.80	21.43	1.099+j6.611	1.964+j6.800
VICTORIA	VIC-400	400.0	25.19	22.38	1.780+j8.995	1.814+j12.499	32.72	27.60	1.007+j7.698	1.770+j11.937
VICTORIA	VIC-230	230.0	39.51	41.40	0.744+j3.278	0.324+j2.901	50.30	50.94	0.465+j2.867	0.309+j2.777
VICTORIA	VIC-85	85.0	24.75	7.61	0.379+j1.946	1.220+j15.349	30.64	10.49	0.273+j1.741	1.641+j11.796
VIDRIERA LOS REYES	VLR-85	85.0	10.72	4.52	0.807+j4.508	3.408+j23.180	12.30	5.68	0.731+j4.329	3.892+j19.350
VIDRIERA TOLUCA	VDT-85	85.0	13.73	6.76	0.700+j3.505	1.162+j14.633	16.18	7.79	0.599+j3.282	1.262+j14.055
VIDRIO PLANO	VPM-85	85.0	11.55	5.11	0.811+j4.170	2.493+j20.166	13.26	6.76	0.733+j4.005	2.758+j15.577
VILLA DE LAS FLORES	VDF-85	85.0	7.43	3.01	1.386+j6.455	6.662+j35.059	9.17	4.62	1.084+j5.787	4.999+j22.716
VILLA GUERRERO	VGU-115	115.0	1.94	1.11	7.657+j33.421	24.341+j107.897	3.11	2.00	5.499+j22.835	14.585+j60.752
VILLITA	VIL-230	230.0	11.31	10.15	2.167+j11.542	2.961+j15.057	20.57	22.60	0.858+j7.049	0.495+j5.395
VILLITA	VIL-115	115.0	11.10	10.73	0.985+j5.902	0.837+j6.443	14.84	14.17	0.705+j4.872	0.595+j5.587
VITO	VIT-85	85.0	9.90	2.44	0.906+j4.871	5.918+j50.079	11.24	2.80	0.846+j4.728	6.939+j47.663
VITRO FIBRAS	VFI-85	85.0	11.61	5.11	0.806+j4.148	2.518+j20.201	13.34	6.74	0.728+j3.982	2.795+j15.674
VOLCÁN GORDO	VOG-400	400.0	7.56	5.80	3.919+j30.313	4.263+j58.201	9.37	6.89	2.708+j26.973	4.326+j56.162
VOLCÁN GORDO	VOG-115	115.0	8.53	8.59	1.366+j7.662	0.559+j7.637	10.34	10.56	1.112+j6.974	0.510+j6.598
XALOSTOC	XAL-230	230.0	21.69	19.34	1.063+j6.028	1.361+j8.263	25.55	22.45	0.805+j5.659	1.302+j7.984
XOCHIMILCO	XOC-230	230.0	19.59	18.01	1.347+j6.643	1.449+j8.449	23.29	21.26	1.011+j6.190	1.327+j7.960
XOCHITLA	XOH-230	230.0	23.00	15.83	0.923+j5.700	2.836+j13.335	27.61	18.31	0.653+j5.250	2.785+j13.079
YEBUCIBI	YBC-115	115.0	7.70	5.18	2.199+j8.340	5.373+j20.521	8.65	5.76	2.110+j8.178	5.378+j20.474



Niveles de cortocircuito de la Red Nacional de Transmisión

Gerencia de Control Regional Central

Subestación Eléctrica	Acrónimo	Tensión (kV)	Corriente de cortocircuito (kA) e impedancias de Thévenin secuencias positiva y cero (Ω)							
			NCC mínimo 2026				NCC máximo 2026			
			3F	1F	ZTH(+)	ZTH(0)	3F	1F	ZTH(+)	ZTH(0)
ZAPATA ENVASES	ZAE-85	85.0	17.73	5.87	0.549+j2.713	2.351+j19.406	21.99	7.72	0.398+j2.422	2.769+j15.832
ZARAGOZA	ZAR-230	230.0	24.27	18.68	1.085+j5.364	2.004+j10.194	28.93	21.64	0.793+j4.986	1.952+j9.966
ZICTEPEC	ZIC-85	85.0	5.12	2.86	2.303+j9.295	4.853+j32.064	5.85	3.21	2.151+j8.969	4.935+j31.629
ZIRANDARO	ZIR-69	69.0	1.17	0.94	13.004+j31.342	35.288+j49.196	1.35	1.05	12.356+j30.079	35.291+j49.254
ZUMPANGO	ZUM-85	85.0	7.99	2.43	1.274+j6.010	5.334+j48.090	9.01	2.79	1.207+j5.869	6.354+j45.689

Gerencia de Control Regional Oriental



[Regresar a mapa del SEN](#)



Subestación Eléctrica	Acrónimo	Tensión (kV)	Corriente de cortocircuito (kA) e impedancias de Thévenin secuencias positiva y cero (Ω)							
			NCC mínimo 2026				NCC máximo 2026			
			3F	1F	ZTH(+)	ZTH(0)	3F	1F	ZTH(+)	ZTH(0)
AB CALSA	ABL-115	115.0	1.89	1.03	8.175+j34.100	33.245+j118.289	2.22	1.21	7.468+j32.084	31.396+j110.482
ABENT 3T	ABT-230	230.0	8.12	9.11	1.981+j16.223	1.064+j11.625	9.62	10.58	1.647+j15.088	1.064+j11.477
ACACOYAUA	AYA-115	115.0	2.97	2.08	6.661+j21.320	16.490+j48.365	3.50	2.44	5.785+j20.034	15.736+j45.462
ACAHUIZOTLA	AHZ-115	115.0	1.95	1.34	9.242+j32.754	17.095+j78.287	2.34	1.54	7.406+j30.277	17.105+j78.106
ACAJETE	ACJ-115	115.0	5.15	3.34	2.594+j12.619	7.021+j33.114	6.15	3.81	2.152+j11.679	6.992+j32.891
ACALA	AAA-115	115.0	4.22	3.01	3.858+j15.264	11.367+j32.783	4.96	3.50	3.406+j14.331	11.155+j31.256
ACAPULCO	APC-115	115.0	5.32	6.82	4.250+j11.746	1.290+j4.013	7.38	9.15	2.550+j9.569	1.320+j3.898
ACATLÁN	ACA-115	115.0	2.87	1.70	7.312+j21.942	17.148+j69.132	3.18	1.87	7.196+j21.823	17.147+j69.110
ACATZINGO	ACZ-115	115.0	4.38	2.75	5.620+j14.081	10.697+j40.885	4.87	3.04	5.530+j13.948	10.686+j40.807
ACAYUCAN	ACY-115	115.0	10.71	7.33	1.248+j6.074	3.087+j14.540	12.95	8.73	1.064+j5.540	2.904+j13.549
ACEROS TLAXCALA	ATX-230	230.0	6.60	4.91	3.636+j19.800	9.288+j39.944	7.65	5.56	3.147+j18.822	9.206+j39.644
ACTOPAN	AOC-115	115.0	2.97	1.91	5.988+j21.542	12.327+j58.150	3.32	2.12	5.811+j21.228	12.315+j58.055
ACUITLAPILCO	ACU-115	115.0	12.43	7.72	1.100+j5.228	3.279+j14.781	14.04	8.61	1.020+j5.100	3.272+j14.726
ADOLFO RUIZ CORTINEZ	ARC-115	115.0	5.26	6.48	4.331+j11.856	1.370+j5.346	7.27	8.58	2.621+j9.701	1.399+j5.232
AEROPUERTO	ARU-115	115.0	16.52	15.00	0.735+j3.951	1.089+j5.133	22.68	19.61	0.454+j3.188	1.010+j4.624
AEROPUERTO	ARP-69	69.0	4.96	3.58	2.072+j7.756	4.529+j16.702	6.36	4.23	1.933+j6.613	4.529+j16.716
AGRONITROGENADOS	ARG-115	115.0	6.88	4.42	1.695+j9.497	4.992+j25.464	7.90	5.05	1.593+j9.110	4.785+j24.539
AGUA DULCE DOS	ADD-115	115.0	5.23	3.98	2.783+j12.398	5.646+j24.072	5.89	4.44	2.725+j12.103	5.634+j23.891
AGUA FRÍA	AGF-69	69.0	2.83	2.62	4.572+j13.322	4.982+j16.724	3.38	3.03	4.417+j12.196	4.982+j16.737
AGUA SANTA	AGA-115	115.0	9.54	5.60	1.419+j6.815	5.678+j20.944	10.73	6.22	1.331+j6.678	5.670+j20.859
AGUA ZARCA	AZA-115	115.0	1.59	0.92	15.194+j38.976	36.666+j128.222	1.79	1.02	14.209+j38.240	36.540+j127.861
ALMECATLA	LML-115	115.0	35.45	29.45	0.340+j1.842	0.506+j2.997	42.80	35.00	0.259+j1.687	0.485+j2.830
ALTOTONGA DOS	TTG-115	115.0	9.09	9.42	1.281+j7.191	0.536+j6.550	11.60	11.83	0.904+j6.232	0.452+j5.864
ALTZAYANCA	AZY-115	115.0	5.55	3.52	3.280+j11.515	7.506+j31.777	6.25	3.92	3.142+j11.257	7.514+j31.689
ALTZAYANCA MANIOBRAS	AZM-230	230.0	6.95	5.08	3.160+j18.842	9.868+j39.175	8.40	6.03	2.510+j17.203	9.183+j36.598
ALUMINIO	AMN-115	115.0	19.23	20.34	0.622+j3.397	0.542+j2.843	26.65	26.44	0.370+j2.715	0.533+j2.750
ALVARADO DOS	AVD-115	115.0	1.98	1.13	10.630+j31.890	30.404+j105.579	2.30	1.45	9.503+j30.245	23.368+j84.839
AMATLAN DOS	ATD-230	230.0	7.97	8.00	2.936+j16.398	1.499+j16.511	9.89	9.56	2.170+j14.606	1.470+j16.227
AMATLAN DOS	ATD-115	115.0	16.02	17.85	0.786+j4.070	0.238+j2.882	20.06	21.78	0.583+j3.593	0.230+j2.772
AMOZOC	AMZ-115	115.0	7.25	4.69	3.213+j8.576	6.301+j23.336	8.11	5.20	3.128+j8.449	6.298+j23.294
ANA CHIAUTEMPAN SANTA	ANC-115	115.0	14.66	9.58	1.022+j4.411	2.817+j11.428	16.65	10.70	0.942+j4.285	2.811+j11.388
ANDRÉS DOS SAN	ADS-115	115.0	2.08	1.17	11.082+j29.872	27.014+j103.403	2.68	2.32	8.329+j25.927	8.972+j39.310
ANGOSTURA	ANG-400	400.0	7.20	6.54	5.563+j31.568	7.094+j41.364	15.73	18.86	1.364+j16.087	0.376+j7.552
ANGOSTURA	ANG-115	115.0	9.97	9.56	1.073+j6.575	0.619+j7.523	13.34	13.48	0.601+j5.441	0.170+j5.290
ANTUÑANO	AUN-115	115.0	18.94	12.64	0.892+j3.391	1.659+j8.610	21.78	14.24	0.807+j3.254	1.651+j8.537
APAXTLA SWITCHEO	AXS-115	115.0	2.21	1.56	9.467+j28.475	19.754+j64.413	2.70	1.81	7.612+j25.994	19.725+j63.695
APIZACO DOS	API-115	115.0	11.24	7.87	1.390+j5.743	3.536+j13.073	12.72	8.79	1.293+j5.593	3.525+j13.011
AQUASISTEMAS	ASI-115	115.0	2.51	2.48	6.195+j25.663	7.267+j27.004	3.15	2.98	4.920+j22.637	7.152+j26.631
ARRIAGA	ARR-115	115.0	2.61	2.69	7.033+j24.494	3.022+j22.972	3.05	3.10	6.276+j23.087	3.013+j22.756
ASTATA	AST-115	115.0	1.60	1.24	9.766+j40.351	10.818+j76.884	1.81	1.57	9.179+j39.292	6.559+j58.636



Subestación Eléctrica	Acrónimo	Tensión (kV)	Corriente de cortocircuito (kA) e impedancias de Thévenin secuencias positiva y cero (Ω)							
			NCC mínimo 2026				NCC máximo 2026			
			3F	1F	ZTH(+)	ZTH(0)	3F	1F	ZTH(+)	ZTH(0)
ATENCINGO	AEN-115	115.0	1.81	1.05	11.454+j34.929	28.885+j113.145	1.99	1.15	11.352+j34.818	28.879+j113.083
ATEXCACO	AXO-115	115.0	3.41	2.58	4.784+j18.876	11.485+j36.469	4.59	4.58	3.247+j15.577	2.079+j15.892
ATLIHUETZIA	ATZ-115	115.0	17.21	12.63	0.935+j3.742	2.007+j7.860	19.66	14.16	0.852+j3.615	2.003+j7.836
ATLIXCO	ATC-115	115.0	7.99	4.59	1.883+j8.094	6.782+j25.936	8.95	5.10	1.792+j7.958	6.767+j25.825
ATLIXCOYOTL	AXT-115	115.0	20.53	13.06	0.801+j3.134	1.964+j8.578	23.72	14.74	0.715+j2.994	1.956+j8.500
AUTO MANUFACTURAS	AMF-115	115.0	16.80	12.46	0.666+j3.896	1.906+j7.872	18.97	13.92	0.601+j3.803	1.908+j7.835
AYUTLA	AYT-115	115.0	0.83	0.47	25.007+j75.929	64.983+j258.104	0.92	0.52	24.001+j75.233	64.852+j257.734
BACHAJON	BAC-115	115.0	0.97	0.60	21.240+j65.220	67.310+j180.280	1.08	0.67	20.789+j64.572	67.233+j179.228
BALSAS	BAA-115	115.0	3.35	2.70	6.416+j18.738	11.819+j32.008	4.33	3.26	4.594+j16.212	11.792+j31.296
BARRA NORTE	BRN-115	115.0	3.06	3.26	4.971+j21.105	4.413+j17.168	3.43	3.64	4.857+j20.754	4.382+j16.964
BELISARIO DOMÍNGUEZ	BDZ-115	115.0	5.12	4.38	3.810+j12.402	4.190+j19.133	6.47	5.54	2.834+j10.927	3.596+j16.608
BELISARIO DOMÍNGUEZ II	BDD-115	115.0	2.16	1.44	9.985+j29.075	25.065+j72.652	2.50	1.65	8.995+j27.802	24.462+j70.067
BENITO JUÁREZ	BJU-115	115.0	7.05	5.49	1.674+j9.263	2.526+j17.522	8.25	6.35	1.507+j8.721	2.474+j16.796
BENTELER	BEN-115	115.0	15.61	9.52	1.054+j4.120	2.207+j12.250	17.79	10.64	0.972+j3.989	2.202+j12.198
BERRIOZÁBAL	BRZ-115	115.0	7.28	5.13	1.636+j8.967	3.948+j20.222	8.70	5.90	1.354+j8.288	3.934+j19.961
BII HIOXO	BII-115	115.0	4.35	5.06	1.531+j15.170	0.325+j8.862	5.63	6.33	1.197+j12.921	0.310+j8.659
BII HIOXO	BII-115B	115.0	3.43	4.16	2.125+j19.262	0.288+j9.211	4.88	5.63	1.393+j14.896	0.274+j8.992
BII NEE STIPA	BNS-115	115.0	5.46	7.20	1.800+j12.037	0.230+j3.543	7.26	9.27	1.139+j9.992	0.242+j3.620
BII STINÚ I	BSU-115	115.0	6.89	9.06	1.771+j9.477	0.229+j2.924	9.63	12.16	1.112+j7.500	0.239+j2.968
BII STINÚ II	BSD-230	230.0	4.88	5.33	2.538+j27.089	2.089+j20.324	6.77	6.92	1.811+j21.514	2.029+j20.021
BIO PAPEL PRINTING	BPP-115	115.0	7.47	5.47	1.787+j8.713	3.168+j18.371	9.44	7.64	1.423+j7.604	1.963+j13.212
BOCA DEL RIO	BDR-115	115.0	14.95	10.48	0.912+j4.346	1.981+j9.934	21.34	15.76	0.546+j3.378	1.193+j6.947
BOCHIL	BCH-115	115.0	3.60	2.29	4.501+j17.878	10.831+j49.037	4.13	2.57	4.188+j17.183	10.824+j48.803
BONFIL	BNL-115	115.0	4.96	5.22	4.644+j12.568	2.310+j11.236	6.66	6.59	2.956+j10.557	2.313+j11.089
BOSQUES	BOE-115	115.0	18.76	13.24	0.701+j3.469	1.677+j7.799	21.50	14.88	0.621+j3.339	1.674+j7.761
BRIDGESTONE	BDG-115	115.0	8.37	6.77	1.354+j7.818	2.421+j13.342	9.41	7.56	1.211+j7.664	2.407+j13.265
BUENA VISTA	BVI-115	115.0	6.56	4.39	2.054+j9.903	6.414+j24.287	8.02	5.06	1.847+j8.921	6.415+j24.255
BUGAMBILIAS	BGB-115	115.0	16.36	9.89	0.998+j3.933	3.000+j11.668	18.70	11.06	0.911+j3.798	2.998+j11.631
BUGAMBILIAS SF6	BGS-115	115.0	16.17	9.73	1.015+j3.979	3.055+j11.885	18.47	10.88	0.928+j3.843	3.054+j11.848
CACALUTA	CLU-115	115.0	1.39	0.88	14.832+j45.257	30.800+j127.154	1.56	1.02	14.310+j44.655	27.657+j117.406
CACTUS PEMEX	CAX-115	115.0	7.43	7.30	1.630+j8.781	1.754+j9.655	8.92	8.48	1.394+j8.072	1.753+j9.618
CACTUS SWITCHEO	CSX-115	115.0	16.58	19.07	0.499+j3.972	0.189+j2.876	19.57	22.16	0.432+j3.706	0.182+j2.805
CALPULALPAN	CPL-115	115.0	4.26	3.68	4.984+j14.768	4.282+j22.707	4.65	4.04	5.046+j14.866	4.264+j22.612
CANTICAS	CIC-115	115.0	13.82	10.65	0.985+j4.701	1.684+j9.125	16.73	12.48	0.879+j4.275	1.686+j8.792
CAPILLA	CAP-115	115.0	5.05	3.14	3.082+j12.787	10.029+j35.731	7.28	4.76	2.265+j9.770	7.485+j24.917
CARACOL	CRL-230	230.0	3.33	3.09	10.584+j38.402	9.393+j48.538	8.93	10.40	1.681+j16.278	0.305+j8.926
CARACOL	CRL-115	115.0	1.79	1.21	11.398+j35.266	25.097+j86.420	2.14	1.39	9.536+j32.790	25.067+j85.700
CARDEL	CAE-115	115.0	3.98	3.37	3.272+j16.353	3.783+j25.471	4.42	3.74	3.192+j16.201	3.771+j25.359
CÁRDENAS	CDN-115	115.0	10.89	9.63	1.196+j5.977	1.847+j8.408	12.77	11.05	1.071+j5.617	1.820+j8.262
CÁRDENAS CENTRO	CDC-115	115.0	10.11	8.26	1.607+j6.366	2.790+j10.735	11.80	9.43	1.484+j6.008	2.757+j10.578



Niveles de cortocircuito de la Red Nacional de Transmisión
Gerencia de Control Regional Oriental

Subestación Eléctrica	Acrónimo	Tensión (kV)	Corriente de cortocircuito (kA) e impedancias de Thévenin secuencias positiva y cero (Ω)							
			NCC mínimo 2026				NCC máximo 2026			
			3F	1F	ZTH(+)	ZTH(0)	3F	1F	ZTH(+)	ZTH(0)
CÁRDENAS DOS	CDD-230	230.0	8.70	8.59	2.316+j15.082	2.442+j16.120	11.01	10.53	1.751+j13.155	2.270+j15.108
CÁRDENAS DOS	CDD-115	115.0	13.10	13.28	0.756+j5.011	0.592+j4.952	15.63	15.60	0.625+j4.632	0.547+j4.740
CÁRDENAS SUR	CSU-115	115.0	9.15	7.34	2.150+j6.930	2.957+j12.393	10.61	8.36	2.030+j6.575	2.895+j12.187
CARLOS A. CARRILLO	CAC-115	115.0	3.90	2.39	5.213+j16.203	13.919+j47.182	4.54	2.86	4.822+j15.345	12.641+j42.486
CASABLANCA	SBL-115	115.0	9.82	7.40	1.170+j6.656	2.630+j13.262	11.48	8.39	1.021+j6.277	2.628+j13.229
CATEMACO	CTO-115	115.0	2.27	1.27	10.237+j27.461	24.512+j94.771	2.95	2.68	7.573+j23.549	7.168+j31.669
CAVERNAS TUZANDEPETL	CVN-115	115.0	13.45	10.04	1.006+j4.832	1.969+j9.866	16.46	11.66	0.877+j4.349	1.972+j9.765
CAYACO	CAY-115	115.0	6.08	7.06	3.920+j10.192	0.979+j6.413	8.71	9.48	2.221+j8.085	0.990+j6.277
CAZONES	CZN-115	115.0	8.40	6.29	1.132+j7.826	3.224+j15.548	10.86	7.48	0.898+j6.666	3.224+j15.530
CD. HIDALGO. CHIAPAS.	CGO-115	115.0	1.92	1.40	10.432+j33.002	25.843+j68.742	2.20	1.57	9.618+j31.841	25.901+j67.897
CD. INDUSTRIAL VILLAHERMOSA	CIH-115	115.0	13.88	12.48	0.806+j4.714	1.071+j6.450	16.65	14.42	0.661+j4.335	1.069+j6.420
CEBADAS Y MALTA	CBM-115	115.0	4.05	3.42	5.252+j15.526	5.046+j25.028	4.43	3.76	5.314+j15.624	5.029+j24.933
CECILIO DEL VALLE	CCL-69	69.0	1.67	1.75	2.314+j23.772	1.497+j20.506	2.93	3.59	1.012+j14.943	0.186+j6.640
CEFERESO	CFS-85	85.0	2.51	1.36	3.720+j19.193	12.928+j67.927	2.81	1.51	3.570+j18.902	12.925+j67.689
CEFERESO VILLACOMALTITLAN	CFV-115	115.0	2.85	2.01	7.005+j22.200	17.050+j49.769	3.35	2.35	6.088+j20.909	16.400+j47.071
CELANESE	CLS-115	115.0	11.96	8.62	1.200+j5.419	2.431+j11.840	14.46	9.94	1.069+j4.938	2.433+j11.739
CELCSA MANIOBRAS	CCB-115	115.0	13.33	11.97	0.805+j4.915	0.882+j6.973	15.85	13.89	0.719+j4.550	0.879+j6.805
CEMENTOS APASCO (TABASCO)	CEM-115	115.0	5.04	3.72	2.778+j12.891	9.719+j25.591	5.94	4.24	2.458+j12.056	9.703+j25.463
CEMENTOS APASCO S.A. DE C.V.	CSS-115	115.0	5.94	7.47	4.043+j10.430	0.478+j4.390	8.48	10.20	2.337+j8.287	0.489+j4.257
CEMENTOS CRUZ AZUL (OAXACA)	CCA-115	115.0	4.39	3.19	4.414+j14.453	7.770+j31.431	5.28	3.66	3.992+j13.253	7.742+j31.352
CEMENTOS MOCTEZUMA (MORELOS)	CUM-230	230.0	12.52	11.86	1.965+j10.425	2.295+j12.176	14.97	13.76	1.418+j9.652	2.286+j12.118
CEMENTOS MOCTEZUMA(APAZAPAN)	CMT-115	115.0	4.19	2.76	3.064+j15.537	5.728+j40.187	4.73	3.07	2.865+j15.188	5.707+j40.064
CEMENTOS TOLTECA	TOC-230	230.0	8.41	6.81	2.253+j15.629	5.527+j26.371	9.58	7.64	1.962+j15.118	5.527+j26.379
CEMENTOS VERACRUZ	CVE-115	115.0	10.49	8.32	1.227+j6.210	2.682+j10.963	12.53	9.60	1.031+j5.738	2.683+j10.841
CENTENARIO	CIO-85	85.0	3.74	2.27	2.361+j12.912	6.263+j38.123	4.21	2.53	2.217+j12.614	6.261+j37.887
CENTRAL EÓLICA SURESTE UNO FASE DOS	SUD-230	230.0	8.03	10.66	1.480+j16.477	0.728+j4.297	12.55	15.88	0.864+j11.605	0.725+j4.267
CENTRO DE EXPOSICIONES Y CONVENCIONES FUERTES	CEF-115	115.0	15.32	8.98	1.072+j4.200	2.573+j13.290	17.44	10.03	0.990+j4.069	2.568+j13.238
CERRO AZUL DOS	CDO-115	115.0	4.12	2.38	3.719+j15.689	19.418+j47.886	4.62	2.64	3.624+j15.391	19.404+j47.786
CERRO DE ORO	EDO-400	400.0	16.57	17.66	2.492+j13.716	1.386+j11.432	27.18	25.58	1.110+j9.280	1.350+j10.985
CERRO DE ORO	EDO-115	115.0	18.50	17.97	0.368+j3.569	0.184+j3.936	25.35	23.27	0.196+j2.874	0.208+j3.600
CERVECERA DE VERACRUZ1	CVR-230	230.0	8.18	6.82	2.662+j16.011	5.374+j25.456	10.30	8.18	1.932+j14.054	5.154+j24.679
CERVECERÍA DEL TRÓPICO	CVT-115	115.0	5.90	4.10	2.104+j11.060	4.633+j25.791	6.84	4.68	1.929+j10.501	4.608+j25.191
CERVECERÍA MOCTEZUMA (ORIZABA)	CMA-115	115.0	11.47	10.26	1.633+j5.555	1.730+j7.655	14.43	12.62	1.324+j4.885	1.639+j7.058
CHAPULCO	CPO-115	115.0	8.61	2.92	1.469+j7.568	12.549+j51.402	9.66	3.22	1.382+j7.433	12.555+j51.457
CHICONTEPEC	CHI-115	115.0	3.10	3.73	5.158+j20.797	1.674+j10.404	3.44	4.15	5.091+j20.599	1.645+j10.217
CHIGNAHUAPAN	CHH-115	115.0	2.79	1.71	6.345+j22.900	19.236+j66.242	3.10	1.89	6.230+j22.732	19.205+j66.090
CHILAPA	CIP-115	115.0	3.55	3.28	5.011+j18.027	5.447+j22.718	4.63	4.01	3.142+j15.475	5.444+j22.436
CHILAPAN	CHP-115	115.0	2.19	1.23	10.613+j28.356	25.465+j97.912	2.90	2.80	7.625+j24.001	5.943+j27.372
CHILPANCINGO	CHG-115	115.0	4.51	4.38	4.422+j14.047	2.804+j15.915	6.26	5.58	2.556+j11.387	2.806+j15.657
CHILPANCINGO	CHG-69	69.0	1.60	1.72	1.874+j24.813	0.000+j19.845	2.13	2.31	1.218+j20.555	1.623+j15.612



Niveles de cortocircuito de la Red Nacional de Transmisión
Gerencia de Control Regional Oriental

Subestación Eléctrica	Acrónimo	Tensión (kV)	Corriente de cortocircuito (kA) e impedancias de Thévenin secuencias positiva y cero (Ω)							
			NCC mínimo 2026				NCC máximo 2026			
			3F	1F	ZTH(+)	ZTH(0)	3F	1F	ZTH(+)	ZTH(0)
CHILPANCINGO DOS	CCS-115	115.0	5.19	5.73	3.771+j12.222	1.139+j9.201	7.45	7.66	1.960+j9.609	1.140+j8.920
CHILPANCINGO POTENCIA	CGP-230	230.0	3.41	3.71	11.884+j37.122	4.413+j29.250	5.38	5.29	5.180+j26.670	4.540+j27.989
CHILPANCINGO POTENCIA	CGP-115	115.0	5.31	6.30	3.628+j11.954	0.574+j6.737	7.66	8.58	1.826+j9.355	0.573+j6.460
CHINAMECA DOS	CHD-115	115.0	19.14	15.80	0.577+j3.421	0.872+j5.716	24.88	19.41	0.427+j2.904	0.839+j5.418
CHINAMECA POTENCIA	CHM-400	400.0	8.98	8.39	3.400+j25.501	4.531+j31.477	13.77	11.28	2.099+j18.325	4.426+j30.550
CHINAMECA POTENCIA	CHM-115	115.0	21.50	20.08	0.468+j3.053	0.428+j3.834	28.37	25.16	0.328+j2.554	0.414+j3.602
CHONTALPA	CHT-115	115.0	3.99	2.93	3.919+j16.191	12.518+j32.648	4.48	3.26	3.791+j15.838	12.491+j32.501
CIA. GRESS	GRE-115	115.0	13.05	8.29	1.091+j4.971	3.285+j13.504	14.76	9.24	1.011+j4.845	3.278+j13.460
CICLO COMBINADO CENTRO (HUEXCA)	CBE-400	400.0	18.76	18.76	1.650+j12.199	1.067+j12.308	22.41	21.87	1.116+j11.280	1.039+j12.139
CINCO DE MAYO	CIY-115	115.0	11.99	7.13	1.462+j5.343	4.305+j16.308	13.55	7.93	1.375+j5.211	4.306+j16.302
CINTALAPA DOS	CIT-115	115.0	6.25	4.37	2.171+j10.401	4.770+j23.856	7.38	4.99	1.872+j9.718	4.760+j23.639
CIUDAD PEMEX	CPX-115	115.0	7.03	5.56	1.311+j9.349	2.954+j16.768	8.57	6.46	1.009+j8.457	2.941+j16.644
CIUDAD TEXTIL	CDX-115	115.0	10.13	6.29	1.203+j6.443	4.673+j17.999	11.35	6.99	1.133+j6.335	4.649+j17.921
CIVAC	CIV-115	115.0	10.49	9.45	1.074+j6.237	1.213+j8.338	11.87	10.61	0.931+j6.083	1.200+j8.262
CLORO DE TEHUANTEPEC	CLO-115	115.0	13.12	9.56	0.869+j4.987	1.852+j10.642	15.98	11.06	0.727+j4.512	1.855+j10.541
COAPAN	CPA-115	115.0	4.59	2.77	4.186+j13.850	10.038+j41.781	5.13	3.07	4.036+j13.657	10.030+j41.697
COATEPEC	COP-115	115.0	4.62	3.63	2.939+j14.080	5.370+j25.553	5.32	4.11	2.602+j13.468	5.340+j25.206
COATZACOALCOS DOS	CTS-400	400.0	11.22	11.58	2.835+j20.380	2.264+j19.290	17.30	15.94	1.539+j14.601	2.252+j18.500
COATZACOALCOS DOS	CTS-115	115.0	26.92	26.30	0.330+j2.444	0.281+j2.749	35.47	33.06	0.229+j2.046	0.269+j2.569
COATZINTLA	CZT-115	115.0	11.36	11.14	0.900+j5.773	1.903+j5.939	16.18	14.40	0.653+j4.466	1.903+j5.922
COGENERACIÓN DE ENERGÍA LIMPIA DE COSOLEACAQUE	CGC-115	115.0	11.92	11.37	0.866+j5.503	0.613+j6.817	13.96	13.10	0.793+j5.172	0.604+j6.641
COGENERACIÓN NUEVO PEMEX	CNX-115	115.0	16.58	19.07	0.499+j3.972	0.189+j2.876	19.57	22.16	0.432+j3.706	0.182+j2.805
COLOTLIPA	CLT-69	69.0	0.86	0.96	12.231+j44.811	22.968+j26.159	1.31	1.49	6.885+j32.701	10.918+j19.449
COMALA PROVISIONAL	CML-115	115.0	1.61	1.03	13.633+j39.013	31.191+j106.631	1.79	1.16	13.254+j38.678	30.093+j103.477
COMALCALCO	COM-115	115.0	8.38	7.68	1.594+j7.759	3.662+j9.611	9.70	8.75	1.456+j7.388	3.608+j9.456
COMALCALCO ORIENTE	CAO-115	115.0	8.73	8.25	1.334+j7.488	2.110+j8.808	10.14	9.46	1.190+j7.106	2.037+j8.587
COMALCALCO POTENCIA	CMP-230	230.0	5.65	5.21	3.765+j23.180	5.684+j29.352	6.76	6.09	3.183+j21.365	5.435+j28.422
COMALCALCO POTENCIA	CMP-115	115.0	9.02	8.96	1.212+j7.257	1.378+j7.492	10.50	10.33	1.068+j6.873	1.300+j7.239
COMALCALCO SUR	CMU-115	115.0	6.95	5.96	2.254+j9.280	5.265+j13.522	7.96	6.73	2.129+j8.922	5.219+j13.371
COMITÁN	CJT-115	115.0	1.47	0.99	14.983+j42.732	42.778+j102.345	1.67	1.12	14.085+j41.456	42.297+j100.067
COMPLEJO PETROQUÍMICO CANGREJERA	CGJ-115	115.0	8.09	4.89	1.776+j8.011	5.628+j23.790	9.31	5.60	1.690+j7.656	5.421+j22.866
COMPLEJO PETROQUÍMICO COSOLEACAQUE	CPQ-115	115.0	6.92	4.38	1.895+j9.406	5.705+j25.779	9.22	6.87	1.333+j7.810	2.224+j16.075
COMPLEJO PETROQUÍMICO INDEPENDENCIA	PEI-115	115.0	10.89	9.15	1.225+j5.975	1.319+j9.511	12.40	10.27	1.114+j5.785	1.316+j9.479
COMPLEJO PETROQUÍMICO MORELOS	PMO-115	115.0	9.33	8.62	1.142+j7.027	2.002+j9.037	10.48	9.60	1.095+j6.885	1.997+j9.008
CONALEP	LEP-115	115.0	7.26	6.59	1.585+j9.001	3.423+j11.570	8.75	7.67	1.317+j8.247	3.409+j11.444
CONEJOS	CNJ-115	115.0	1.40	0.89	14.221+j45.413	30.058+j126.478	1.56	1.03	13.678+j44.746	26.778+j116.335
CONTLA	CNU-115	115.0	21.14	14.22	0.632+j3.076	1.702+j7.555	24.44	16.10	0.551+j2.937	1.693+j7.463
CÓRDOBA	COR-115	115.0	11.76	8.75	1.059+j5.547	2.654+j11.173	14.18	10.11	0.859+j5.077	2.655+j11.079
CÓRDOBA DOS	CBS-115	115.0	13.75	11.97	0.923+j4.740	1.395+j6.853	16.88	14.09	0.720+j4.267	1.390+j6.751
COSCOMATEPEC	CSE-115	115.0	4.77	2.86	2.551+j13.685	11.774+j40.176	5.44	3.20	2.341+j13.227	11.777+j40.075



Subestación Eléctrica	Acrónimo	Tensión (kV)	Corriente de cortocircuito (kA) e impedancias de Thévenin secuencias positiva y cero (Ω)							
			NCC mínimo 2026				NCC máximo 2026			
			3F	1F	ZTH(+)	ZTH(0)	3F	1F	ZTH(+)	ZTH(0)
COSOLAPA	CSL-115	115.0	3.57	2.49	2.946+j18.384	5.703+j42.382	4.53	3.23	2.274+j15.954	4.732+j35.275
COSOLEACAQUE	CSQ-115	115.0	10.92	7.37	1.067+j5.987	2.861+j14.679	13.15	8.54	0.912+j5.477	2.818+j14.324
COSTA AZUL	CAZ-115	115.0	5.58	6.39	4.123+j11.171	1.139+j7.371	7.76	8.39	2.424+j9.088	1.141+j7.218
COYOACO MANIOBRAS	CYM-230	230.0	5.36	5.45	4.212+j24.430	2.941+j23.370	6.83	6.68	3.058+j21.162	2.818+j22.484
COYUCA	CYC-115	115.0	4.66	4.57	4.519+j13.528	2.843+j14.859	6.55	6.00	2.710+j10.812	2.824+j13.941
CRISOL TEXTIL	CTX-115	115.0	10.95	7.07	1.063+j5.971	3.916+j15.581	12.27	7.86	0.995+j5.869	3.895+j15.514
CRISTÓBAL SAN	CRI-115	115.0	3.66	2.40	5.081+j17.415	14.506+j44.538	4.23	2.73	4.653+j16.633	14.445+j43.515
CRUCES	CRC-69	69.0	6.70	7.21	1.768+j5.676	1.897+j4.311	9.00	9.16	1.129+j4.738	1.952+j4.223
CRUCES GENERACIÓN	CUG-115	115.0	6.06	7.03	3.906+j10.235	1.033+j6.428	8.70	9.45	2.203+j8.102	1.055+j6.307
CRUZ AZUL MANIOBRAS	CZM-400	400.0	10.94	8.29	2.853+j20.911	7.828+j40.729	13.67	9.74	1.912+j18.487	7.783+j40.441
CRUZ GRANDE	CGN-115	115.0	2.11	1.31	10.384+j29.781	27.444+j84.345	2.44	1.48	9.064+j28.505	27.405+j84.171
CRYO INFRA DOS	CRX-115	115.0	7.19	5.02	2.213+j8.968	4.545+j20.816	8.36	5.67	2.080+j8.489	4.548+j20.715
CRYOINFRA - PRAXAIR	CYX-115	115.0	9.27	7.88	1.173+j7.067	2.415+j11.078	10.42	8.79	1.126+j6.919	2.397+j10.988
CRYOINFRA CÁRDENAS	ICD-115	115.0	10.52	9.20	1.253+j6.183	2.071+j8.918	12.31	10.54	1.127+j5.823	2.044+j8.771
CRYO_INFRA	CRY-115	115.0	14.16	11.75	0.956+j4.590	1.003+j7.636	17.45	14.57	0.831+j4.102	0.962+j6.676
CUAUHTÉMOC	CTM-115	115.0	8.57	5.89	1.844+j7.529	4.102+j17.895	9.68	6.57	1.733+j7.346	4.095+j17.846
CUAUHTÉMOC	CUH-115	115.0	1.09	0.75	13.948+j59.101	41.012+j139.124	1.21	0.83	13.791+j58.743	41.011+j139.103
CUAUTLA	CUA-115	115.0	9.32	7.61	1.431+j6.975	1.749+j11.825	10.40	8.46	1.355+j6.888	1.731+j11.747
CUAUTLA DOS	CUS-115	115.0	7.16	4.87	1.965+j9.066	4.677+j21.897	7.96	5.38	1.888+j8.982	4.674+j21.859
CUAUTLA INDUSTRIAL	CIL-115	115.0	6.41	4.55	2.490+j10.055	5.576+j22.337	7.12	5.04	2.412+j9.973	5.567+j22.279
CUCHAPA PEMEX	CUH-115	115.0	9.00	6.06	1.609+j7.198	3.687+j17.887	10.48	6.86	1.504+j6.802	3.675+j17.706
CUERNAVACA	CUE-85	85.0	5.52	4.74	1.477+j8.765	1.550+j13.202	6.30	5.36	1.335+j8.464	1.548+j12.967
CUETZALAN	CTZ-115	115.0	3.48	2.06	3.505+j18.762	12.084+j57.105	3.94	2.31	3.306+j18.216	12.076+j56.588
CUICATLAN	CUX-115	115.0	1.81	1.16	9.773+j35.258	37.902+j91.630	2.01	1.28	9.554+j34.972	37.878+j91.307
CUICHAPA DOS	CCP-115	115.0	9.25	6.19	1.555+j7.005	3.612+j17.567	10.79	7.02	1.451+j6.609	3.600+j17.386
CUITLÁHUAC	CTH-115	115.0	4.59	2.86	2.691+j14.208	9.032+j39.760	5.23	3.20	2.483+j13.739	9.024+j39.650
CUNDUACÁN	DUA-115	115.0	5.83	4.07	1.897+j11.236	6.163+j25.592	6.64	4.56	1.762+j10.858	6.123+j25.446
CYCNA DE ORIENTE	CYR-400	400.0	8.40	6.09	3.374+j27.296	11.060+j57.939	10.16	7.03	2.430+j24.874	10.943+j57.483
DISTRIBUCIÓN TRC-115	TRC-115	115.0	5.99	3.93	1.828+j10.927	6.037+j27.951	6.95	4.43	1.631+j10.384	6.028+j27.869
DISTRITO INDUSTRIAL	DIN-69	69.0	8.99	9.06	0.454+j4.410	0.616+j4.278	13.22	11.99	0.321+j3.299	0.616+j4.288
DONAJI	DOJ-115	115.0	3.99	2.51	4.146+j16.115	10.190+j44.876	4.62	2.83	3.874+j15.335	10.145+j44.674
DOS BOCAS CICLO COMBINADO	DBC-230	230.0	10.44	9.39	2.166+j12.530	3.744+j16.602	16.23	15.69	1.012+j8.946	1.354+j9.745
DOS BOCAS CICLO COMBINADO	DBC-115	115.0	16.82	13.28	0.793+j3.868	1.496+j6.946	26.82	26.36	0.370+j2.698	0.280+j2.847
DOS BOCAS PEMEX	DBX-115	115.0	4.52	3.51	3.258+j14.327	9.015+j26.091	5.11	3.93	3.106+j13.955	8.938+j25.857
DPA DRAEXLMAIER, PARTES AUTOMOTORAS DE MÉXICO	DXM-115	115.0	10.88	6.81	1.114+j6.002	4.300+j16.541	12.20	7.57	1.044+j5.893	4.276+j16.462
EASTMAN (CHEMICAL)	EAS-115	115.0	6.68	4.30	2.976+j9.476	6.323+j25.868	7.77	4.86	2.820+j8.966	6.289+j25.571
EJUTLA	EJT-115	115.0	3.29	2.44	5.216+j19.467	8.917+j40.450	3.69	2.72	4.939+j19.167	8.807+j39.868
EL CARMEN	CNM-230	230.0	9.16	10.15	1.962+j14.369	1.279+j10.721	11.18	12.04	1.538+j12.970	1.291+j10.553
EL CARMEN	CNM-115	115.0	11.93	13.44	0.674+j5.526	0.390+j3.790	13.92	15.43	0.566+j5.215	0.397+j3.770
EL CASTILLO	ELC-230	230.0	4.89	4.74	5.130+j26.676	3.702+j29.605	6.05	5.69	3.917+j23.832	3.617+j28.077



**Niveles de cortocircuito de la Red Nacional de Transmisión
Gerencia de Control Regional Oriental**

Subestación Eléctrica	Acrónimo	Tensión (kV)	Corriente de cortocircuito (kA) e impedancias de Thévenin secuencias positiva y cero (Ω)							
			NCC mínimo 2026				NCC máximo 2026			
			3F	1F	ZTH(+)	ZTH(0)	3F	1F	ZTH(+)	ZTH(0)
EL CASTILLO	ELC-115	115.0	7.56	8.53	1.736+j8.604	0.448+j5.814	9.07	10.14	1.396+j7.929	0.413+j5.435
EL CERRO	CEO-115	115.0	6.64	4.28	2.053+j9.788	5.631+j25.901	7.92	4.90	1.688+j9.063	5.603+j25.623
EL CONDE	ECN-115	115.0	20.19	14.74	0.749+j3.203	1.274+j6.835	23.33	16.71	0.667+j3.059	1.265+j6.748
EL GIRASOL	GIS-115	115.0	1.57	0.98	10.874+j41.000	41.684+j110.856	1.74	1.08	10.655+j40.715	41.660+j110.532
EL GUAYABO	GYB-115	115.0	7.57	4.55	1.863+j8.573	5.607+j25.684	12.93	8.27	1.052+j5.551	3.065+j14.872
EL JÍCARO	JIC-115	115.0	5.45	3.14	2.171+j11.987	8.193+j38.201	6.59	3.89	1.849+j10.931	7.062+j33.427
EL MEZQUITE	MEQ-115	115.0	5.25	4.18	2.883+j12.320	4.967+j21.960	6.65	4.94	2.349+j10.732	4.958+j21.923
EL MORAL (OAXACA)	MOR-115	115.0	2.63	1.95	7.023+j24.241	18.623+j48.410	2.93	2.16	6.805+j23.954	18.601+j48.090
EL MORAL (PUEBLA)	MOA-115	115.0	10.19	6.61	1.145+j6.417	3.882+j16.658	11.39	7.34	1.077+j6.319	3.873+j16.611
EL SABINO	SAB-400	400.0	9.03	8.94	3.938+j25.271	3.654+j26.238	16.27	14.18	1.322+j15.554	3.541+j21.973
EL SABINO	SAB-115	115.0	16.37	15.97	0.604+j4.012	0.394+j4.360	21.94	20.45	0.340+j3.311	0.375+j4.019
EL TEJAR	TJR-115	115.0	16.71	13.14	0.800+j3.892	1.513+j7.063	26.16	24.48	0.386+j2.765	0.409+j3.337
EL TREINTA	ETT-115	115.0	5.11	5.13	4.449+j12.215	2.480+j12.704	7.03	6.52	2.733+j10.021	2.507+j12.592
EL TULE	TLE-115	115.0	3.97	3.05	4.297+j16.153	6.999+j31.133	4.47	3.41	4.058+j15.809	6.968+j30.780
EL ZOPO	ZOP-115	115.0	5.55	4.14	2.468+j11.715	8.485+j22.787	6.59	4.74	2.148+j10.879	8.469+j22.659
EMILIANO ZAPATA	EMZ-115	115.0	2.54	1.56	6.842+j25.186	21.699+j72.631	2.86	1.74	6.640+j24.618	21.602+j72.113
ENCANTO	ECT-115	115.0	4.42	4.63	3.523+j14.599	2.147+j12.845	5.38	5.81	2.925+j13.262	1.447+j10.476
ENTABLADERO	ETD-115	115.0	6.20	3.97	1.907+j10.542	9.874+j27.194	7.02	4.42	1.848+j10.246	9.871+j27.117
ESCÁMELA	ECM-115	115.0	10.75	8.49	1.190+j6.058	2.416+j10.846	12.97	9.88	0.972+j5.545	2.403+j10.659
ESFUERZO	ESF-115	115.0	3.36	2.93	4.697+j19.216	8.195+j27.338	3.76	3.26	4.580+j18.866	8.167+j27.156
ESPERANZA	ERZ-115	115.0	6.94	5.95	2.561+j9.225	2.341+j14.188	7.82	6.70	2.422+j9.022	2.282+j13.891
ETLA	ETX-115	115.0	4.00	3.51	4.415+j16.008	7.600+j22.284	4.50	3.94	4.186+j15.682	7.567+j21.917
EXCELOPOLIS	EXE-115	115.0	17.78	10.82	0.899+j3.624	2.470+j10.673	20.40	12.14	0.813+j3.486	2.462+j10.617
FENO QUIMIA	FNQ-115	115.0	6.99	4.34	1.928+j9.297	5.814+j26.328	8.46	5.31	1.680+j8.465	4.942+j23.589
FERMEX	FEM-115	115.0	10.71	8.43	1.695+j5.963	3.091+j10.807	13.26	10.16	1.418+j5.320	2.950+j10.130
FLORES MAGÓN	FLM-115	115.0	3.53	2.62	4.701+j18.202	13.305+j36.179	4.19	3.09	4.059+j16.948	12.841+j33.925
FORJAMEX	FJM-115	115.0	12.88	9.93	1.152+j5.026	2.289+j9.524	14.68	11.12	1.052+j4.864	2.284+j9.505
FORTÍN	FOR-115	115.0	13.70	10.55	0.893+j4.763	2.169+j8.938	16.79	12.32	0.694+j4.294	2.172+j8.837
FRAMBOYANES	FRY-115	115.0	19.22	22.31	0.623+j3.398	0.287+j2.008	26.72	29.70	0.368+j2.708	0.279+j1.882
FRONTERA	FRT-115	115.0	1.45	1.14	11.807+j44.203	33.212+j77.197	1.61	1.26	11.650+j43.845	33.210+j77.176
FRONTERA COMALAPA	FCM-115	115.0	1.01	0.62	18.982+j62.920	53.222+j180.822	1.14	0.70	17.935+j61.747	52.600+j178.204
FUERTES	FUE-115	115.0	16.45	10.69	1.000+j3.911	1.995+j10.394	18.78	11.98	0.917+j3.780	1.990+j10.341
GABINO BARREDA	GBA-115	115.0	9.42	6.67	1.361+j6.919	3.401+j15.434	11.70	8.31	1.120+j6.139	3.177+j13.590
GARITA	GAR-115	115.0	5.71	6.40	3.945+j10.928	1.278+j7.889	8.09	8.45	2.249+j8.740	1.305+j7.781
GAVIOTAS	GAV-115	115.0	13.54	11.60	0.830+j4.835	1.311+j7.384	16.23	13.38	0.682+j4.448	1.308+j7.348
GIRANDAS PEMEX	GIR-115	115.0	5.39	3.68	2.627+j12.026	7.238+j28.841	6.12	4.11	2.510+j11.660	7.232+j28.721
GRAN PRIDECO	GRA-115	115.0	14.87	12.71	0.899+j4.372	1.684+j6.539	19.54	15.54	0.645+j3.681	1.676+j6.413
GRIJALVA	GIA-115	115.0	5.74	3.73	2.852+j11.203	6.184+j29.742	6.82	4.28	2.498+j10.418	6.086+j29.067
GUADALUPE ANALCO	GAN-115	115.0	11.24	7.13	1.462+j5.721	3.955+j15.627	12.68	7.93	1.375+j5.591	3.959+j15.640
GUTIÉRREZ ZAMORA DOS	GZD-115	115.0	5.79	4.09	1.766+j11.324	5.451+j25.223	6.60	4.59	1.653+j10.949	5.424+j25.050



Niveles de cortocircuito de la Red Nacional de Transmisión
Gerencia de Control Regional Oriental

Subestación Eléctrica	Acrónimo	Tensión (kV)	Corriente de cortocircuito (kA) e impedancias de Thévenin secuencias positiva y cero (Ω)							
			NCC mínimo 2026				NCC máximo 2026			
			3F	1F	ZTH(+)	ZTH(0)	3F	1F	ZTH(+)	ZTH(0)
HELIPUERTO	HEL-115	115.0	2.55	2.46	6.344+j25.276	3.893+j28.566	3.16	2.93	4.494+j22.704	3.880+j28.162
HUAJUAPAN	HJP-115	115.0	1.83	1.09	10.801+j34.580	27.117+j106.542	2.03	1.20	10.654+j34.437	27.111+j106.466
HUAMANTLA DOS	HUA-115	115.0	9.11	6.35	1.696+j7.089	3.764+j16.420	10.31	7.08	1.586+j6.904	3.762+j16.383
HUAMUXTITLAN	HUU-115	115.0	1.03	0.65	19.344+j61.517	40.570+j172.726	1.18	0.73	17.299+j59.173	40.563+j172.429
HUATULCO	HCO-115	115.0	1.40	0.88	14.885+j45.135	30.919+j127.132	1.56	1.02	14.371+j44.544	27.867+j117.440
HUATUSCO	HTU-115	115.0	3.50	2.04	3.480+j18.655	16.541+j57.534	3.95	2.27	3.266+j18.201	16.544+j57.433
HUAUTLA DE JIMENEZ	HUJ-69	69.0	0.66	0.49	31.122+j51.912	50.820+j111.925	0.72	0.54	31.098+j52.144	50.821+j112.242
HUEJOTZINGO	HJO-115	115.0	12.95	8.47	0.926+j5.043	3.633+j12.809	14.57	9.44	0.858+j4.939	3.606+j12.733
HUEYAPAN	HYN-115	115.0	2.73	2.02	6.188+j23.551	15.939+j47.490	3.51	3.16	4.643+j20.266	6.530+j26.910
HUEYAPAN DE OCAMPO	HOC-115	115.0	3.19	1.77	6.886+j19.673	17.959+j68.911	3.87	2.67	5.850+j17.961	10.450+j43.288
HUIMANGUILLO	HMG-115	115.0	6.11	4.78	2.894+j10.476	6.097+j19.115	6.96	5.38	2.773+j10.116	6.044+j18.908
HUIXTLA	HUX-115	115.0	3.24	2.38	6.456+j19.435	13.777+j40.474	3.86	2.81	5.495+j18.114	13.190+j37.914
HUIXTLA DOS	HUD-115	115.0	3.15	2.33	5.869+j20.265	13.892+j40.939	3.74	2.75	4.957+j18.865	13.317+j38.395
HUMEROS DOS	HMD-115	115.0	6.41	6.23	2.076+j10.144	1.868+j11.151	7.81	7.51	1.769+j9.186	1.954+j10.268
HUMEROS LOS	HMS-115	115.0	4.22	4.26	3.168+j15.404	2.590+j15.159	5.23	5.38	2.556+j13.739	1.886+j12.682
HUMEROS TRES	HMT-115	115.0	6.29	6.17	2.049+j10.351	1.406+j11.156	7.53	7.28	1.785+j9.532	1.488+j10.589
IDESA	IDE-115	115.0	9.81	7.99	1.102+j6.678	2.513+j11.446	11.09	8.96	1.050+j6.500	2.486+j11.306
IGUALA	IGU-115	115.0	2.50	2.76	6.650+j25.706	1.163+j19.358	3.09	3.31	4.785+j23.159	1.137+j18.916
INDEPENDENCIA	IPD-115	115.0	3.36	2.19	4.778+j19.170	10.762+j50.210	4.16	3.26	3.774+j17.128	5.191+j31.698
INDUSTRIAL	INT-115	115.0	18.15	12.12	0.874+j3.553	1.725+j8.968	20.79	13.61	0.793+j3.423	1.721+j8.921
INDUSTRIAL CUAUTLA DOS	ICS-115	115.0	6.52	4.74	2.436+j9.883	5.328+j20.997	7.24	5.25	2.359+j9.801	5.318+j20.935
INDUSTRIAL PATRONA	IPA-115	115.0	13.68	11.37	0.930+j4.765	1.630+j7.640	16.78	13.35	0.727+j4.292	1.626+j7.538
INFONAVIT	IFN-115	115.0	17.78	15.32	0.746+j3.658	0.996+j5.451	24.26	19.15	0.492+j2.970	0.979+j5.325
INFRA VILLA HERMOSA	IVH-115	115.0	12.81	11.17	0.974+j5.089	1.439+j7.466	15.27	12.85	0.828+j4.710	1.438+j7.438
INGENIO LA GLORIA	GLR-115	115.0	3.50	3.34	3.608+j18.638	1.752+j21.629	3.86	3.69	3.578+j18.585	1.733+j21.479
INGENIO SAN NICOLÁS	ISN-115	115.0	3.10	1.78	3.539+j21.119	16.286+j67.265	4.44	4.25	2.178+j16.323	1.711+j18.564
IQUISA	IQU-115	115.0	15.89	13.40	0.758+j4.110	0.670+j6.601	19.90	16.95	0.634+j3.614	0.634+j5.626
ISLA	ISL-115	115.0	2.66	1.58	6.775+j23.986	21.476+j73.268	3.00	1.77	6.577+j23.478	21.351+j72.264
ITUNDUJIA	ITU-115	115.0	0.77	0.46	23.309+j82.445	62.344+j254.114	0.85	0.51	23.116+j82.255	62.330+j253.920
IXHUATLAN DE MADERO	IXH-115	115.0	1.50	1.31	9.115+j43.208	24.527+j59.420	1.67	1.45	8.982+j42.856	24.509+j59.291
IXTAPA POTENCIA	ITP-230	230.0	6.12	4.52	3.582+j21.409	10.962+j43.129	8.61	6.02	2.211+j16.815	9.857+j37.635
IXTAPA POTENCIA	ITP-115	115.0	5.58	4.80	1.253+j11.837	2.750+j17.428	8.90	7.07	1.087+j8.134	2.630+j14.299
IXTEPEC	IXP-115	115.0	3.76	3.27	4.130+j17.178	8.767+j24.424	4.69	3.86	3.430+j15.205	8.760+j24.379
IXTEPEC POTENCIA	IPO-400	400.0	6.39	8.07	3.415+j35.984	0.879+j13.677	10.31	12.09	1.559+j24.591	0.886+j13.716
IXTEPEC POTENCIA	IPO-230	230.0	8.97	12.07	1.080+j14.771	0.217+j3.425	14.65	18.76	0.477+j9.961	0.217+j3.400
IXTEPEC POTENCIA	IPO-115	115.0	15.10	18.54	0.273+j4.387	0.111+j1.962	22.69	26.10	0.122+j3.216	0.112+j1.953
IXTLAN DE JUÁREZ	IXJ-115	115.0	3.04	2.03	5.154+j21.234	11.783+j53.188	3.41	2.26	4.940+j20.868	11.762+j52.907
IZUCAR DE MATAMOROS	IZM-115	115.0	2.84	1.65	7.864+j22.002	19.447+j71.839	3.15	1.82	7.762+j21.886	19.441+j71.777
IZUCAR DE MATAMOROS DOS	IZD-115	115.0	2.96	1.72	7.595+j21.133	18.999+j68.463	3.27	1.90	7.494+j21.016	18.992+j68.396
J. B. LOBOS	JBL-115	115.0	15.04	13.12	0.833+j4.336	1.275+j6.229	19.84	16.15	0.569+j3.636	1.250+j6.072



Niveles de cortocircuito de la Red Nacional de Transmisión
Gerencia de Control Regional Oriental

Subestación Eléctrica	Acrónimo	Tensión (kV)	Corriente de cortocircuito (kA) e impedancias de Thévenin secuencias positiva y cero (Ω)							
			NCC mínimo 2026				NCC máximo 2026			
			3F	1F	ZTH(+)	ZTH(0)	3F	1F	ZTH(+)	ZTH(0)
JALACINGO	JAL-230	230.0	7.48	7.07	3.233+j17.455	3.217+j20.651	10.00	9.12	2.126+j14.449	2.873+j18.137
JALACINGO	JAL-115	115.0	9.28	9.78	1.246+j7.045	0.434+j6.080	11.88	12.35	0.869+j6.086	0.350+j5.395
JALAPA DOS	JLD-115	115.0	4.75	3.81	2.868+j13.688	4.909+j23.813	5.49	4.33	2.525+j13.060	4.878+j23.455
JALPA	JAA-115	115.0	7.44	7.53	1.692+j8.762	6.511+j7.130	8.55	8.54	1.560+j8.398	6.473+j7.075
JARDÍN	JDN-230	230.0	13.17	14.28	1.853+j9.907	1.371+j7.650	19.68	20.13	0.938+j7.364	1.234+j6.765
JARDÍN	JDN-115	115.0	20.94	24.67	0.570+j3.119	0.185+j1.735	29.68	33.25	0.318+j2.440	0.176+j1.651
JIUTEPEC	JIU-115	115.0	9.86	8.52	1.054+j6.651	1.265+j9.837	11.09	9.56	0.942+j6.518	1.229+j9.679
JOJUTLA	JJT-115	115.0	6.59	4.67	2.080+j9.862	4.404+j22.059	7.42	5.20	1.938+j9.646	4.398+j22.023
JUCHITÁN DOS	JUD-230	230.0	4.94	6.41	4.319+j26.526	0.868+j8.802	7.90	9.63	2.105+j18.365	0.857+j8.688
JUCHITÁN DOS	JUD-115	115.0	7.84	10.76	1.466+j8.346	0.120+j1.795	11.34	15.08	0.813+j6.386	0.115+j1.769
JUCHITÁN UNO	JUC-115	115.0	6.23	6.69	2.148+j10.432	1.797+j8.587	8.52	8.54	1.459+j8.447	1.790+j8.542
JUILE	JUI-400	400.0	12.65	12.33	2.638+j18.069	3.260+j19.602	21.24	17.46	1.122+j11.908	3.262+j19.418
JUILE	JUI-230	230.0	10.09	11.82	1.194+j13.108	0.578+j7.480	13.68	15.21	0.574+j10.665	0.566+j7.433
JUILE	JUI-115	115.0	4.11	2.62	4.073+j15.621	9.800+j42.580	4.69	2.96	3.880+j15.067	9.681+j41.940
JUY JUY	JUY-115	115.0	11.99	12.50	0.893+j5.464	0.603+j4.838	15.18	15.22	0.640+j4.769	0.600+j4.713
KILOMETRO VEINTE	KLV-230	230.0	12.58	12.98	1.662+j10.425	1.327+j9.816	17.26	16.66	1.014+j8.400	1.287+j9.435
KILOMETRO VEINTE	KLV-115	115.0	20.00	21.10	0.485+j3.284	0.303+j2.901	25.43	25.77	0.328+j2.853	0.290+j2.808
KIMBERLEY CLARK	KIA-115	115.0	12.47	10.12	1.119+j5.206	1.654+j8.911	14.26	11.45	1.004+j5.024	1.623+j8.759
KIMBERLEY CLARK, PUÉ.	KIC-115	115.0	11.57	9.15	1.218+j5.606	1.935+j10.153	13.20	10.32	1.103+j5.424	1.905+j10.001
KIMBERLEY CLARK, VER.	KIM-115	115.0	12.67	11.02	0.934+j5.158	1.165+j7.505	15.62	13.00	0.710+j4.620	1.168+j7.414
KRUPP METALÚRGICA	KRU-115	115.0	14.04	8.93	0.819+j4.658	2.981+j12.532	15.95	10.00	0.742+j4.519	2.970+j12.428
LA BARRA	LBR-115	115.0	3.47	4.02	4.270+j18.631	1.817+j11.264	3.90	4.50	4.156+j18.280	1.786+j11.060
LA CHOCA	LCH-115	115.0	15.25	13.77	0.751+j4.288	1.176+j5.829	18.31	15.92	0.624+j3.939	1.175+j5.802
LA CIÉNEGA	CIG-230	230.0	3.60	3.56	8.322+j35.983	5.156+j37.741	4.15	4.09	7.395+j34.393	4.956+j36.358
LA CIÉNEGA	CIG-115	115.0	6.43	6.65	2.447+j10.033	1.131+j9.290	7.35	7.61	2.211+j9.687	1.070+j8.880
LA CURVA	LVA-115	115.0	7.44	6.25	1.251+j8.832	2.383+j13.912	9.03	7.27	0.976+j8.032	2.370+j13.787
LA GARZA	LGZ-115	115.0	1.93	1.14	9.835+j32.996	28.267+j101.328	2.16	1.27	9.516+j32.377	28.257+j101.103
LA GLORIA MANIOBRAS	GLM-115	115.0	3.59	3.33	3.596+j18.159	2.274+j22.791	3.96	3.68	3.556+j18.082	2.257+j22.650
LA GRANJA TRES	GRT-115	115.0	10.49	6.43	1.143+j6.225	3.846+j17.922	13.67	9.59	0.839+j5.277	2.418+j11.891
LA GUADALUPE	LGP-115	115.0	1.65	1.10	10.445+j38.788	30.734+j96.091	1.87	1.24	9.999+j37.808	30.339+j94.400
LA ISLA	ISL-115	115.0	11.55	13.07	0.713+j5.705	0.574+j3.827	13.46	14.99	0.605+j5.393	0.579+j3.806
LA ISLA	LAI-115	115.0	8.48	6.76	1.306+j7.716	2.423+j13.870	9.74	7.80	1.216+j7.403	2.195+j13.120
LA MALINCHE	MLC-230	230.0	11.91	13.00	2.193+j10.934	1.008+j8.401	14.11	15.05	1.789+j10.196	1.019+j8.392
LA MALINCHE	MLC-115	115.0	19.26	22.91	0.674+j3.381	0.146+j1.857	22.25	26.09	0.579+j3.230	0.148+j1.872
LA MARGARITA	LMG-115	115.0	4.20	2.67	2.527+j15.597	7.122+j42.483	5.19	3.45	2.065+j13.923	5.794+j34.804
LA MIRA	MRA-115	115.0	4.66	4.88	4.524+j13.497	2.774+j12.053	6.25	6.15	2.829+j11.332	2.800+j11.953
LA REFORMA	RFA-115	115.0	10.19	7.62	1.048+j6.432	2.658+j13.165	11.77	8.58	0.962+j6.131	2.654+j13.111
LA REINA	RNA-115	115.0	6.46	5.99	2.065+j10.060	2.145+j12.551	7.61	6.92	1.738+j9.437	2.117+j12.206
LA TINAJA	TNJ-115	115.0	2.27	1.24	7.016+j28.331	27.805+j98.517	2.70	1.48	6.319+j26.304	25.958+j90.714
LA TRINITARIA	TNI-115	115.0	1.30	0.86	16.454+j48.522	46.902+j119.126	1.47	0.97	15.549+j47.260	46.420+j116.847



Niveles de cortocircuito de la Red Nacional de Transmisión
Gerencia de Control Regional Oriental

Subestación Eléctrica	Acrónimo	Tensión (kV)	Corriente de cortocircuito (kA) e impedancias de Thévenin secuencias positiva y cero (Ω)							
			NCC mínimo 2026				NCC máximo 2026			
			3F	1F	ZTH(+)	ZTH(0)	3F	1F	ZTH(+)	ZTH(0)
LA UNIÓN	UNN-115	115.0	5.39	2.31	2.618+j12.043	16.532+j59.165	8.44	4.19	1.781+j8.473	9.223+j33.673
LA VENTA DOS	LVD-230	230.0	4.26	5.40	4.799+j30.775	1.511+j11.882	6.68	7.92	2.437+j21.721	1.489+j11.703
LA VENTA DOS	VED-115	115.0	4.74	3.75	3.035+j13.685	5.693+j24.545	5.30	4.17	3.007+j13.447	5.681+j24.364
LA VENTA MANIOBRAS	VMN-230	230.0	3.80	4.70	5.162+j34.541	1.237+j15.377	5.97	6.85	2.551+j24.339	1.203+j15.120
LA VENTA PEMEX	VEP-115	115.0	4.67	3.67	3.075+j13.873	5.891+j25.270	5.23	4.08	3.049+j13.639	5.880+j25.089
LACANJÁ	LCJ-115	115.0	0.72	0.39	26.129+j87.802	137.030+j294.642	0.81	0.44	25.294+j86.353	137.002+j294.496
LAGUNA DE TRES PALOS	LTP-115	115.0	4.86	5.14	4.659+j12.838	2.328+j11.262	6.52	6.49	2.963+j10.811	2.331+j11.114
LAGUNA VERDE	LAV-400	400.0	14.78	15.99	2.021+j15.491	0.939+j12.075	22.30	25.11	0.859+j11.361	0.368+j7.501
LAGUNA VERDE	LAV-230	230.0	10.91	11.64	1.127+j12.122	0.471+j9.873	13.65	14.30	0.651+j10.680	0.356+j9.215
LAMOSA	LOA-115	115.0	21.42	18.12	0.523+j3.055	0.799+j4.743	24.39	20.37	0.458+j2.960	0.799+j4.711
LAPSOLITE	LSL-115	115.0	15.75	11.45	0.728+j4.152	2.210+j8.711	17.76	12.78	0.664+j4.059	2.213+j8.674
LAS BRISAS	BRS-115	115.0	17.97	15.96	0.708+j3.626	0.774+j5.042	24.55	19.99	0.451+j2.940	0.762+j4.943
LAS CHOAPAS DOS	LHD-115	115.0	3.35	2.07	5.622+j19.014	12.431+j55.272	3.76	2.30	5.514+j18.624	12.419+j55.091
LAS HACIENDAS	LHA-115	115.0	11.42	8.09	1.057+j5.717	2.777+j12.900	13.43	9.18	0.931+j5.359	2.773+j12.849
LAS JUNTAS	LJU-115	115.0	1.76	1.05	11.074+j36.106	28.436+j110.024	1.94	1.16	10.919+j35.954	28.429+j109.931
LAS MARGARITAS	MGs-115	115.0	3.80	2.35	3.366+j17.125	9.918+j48.914	4.42	2.68	3.018+j16.246	9.899+j47.700
LAS MATAS	MAS-115	115.0	11.67	7.94	0.957+j5.608	2.782+j13.517	15.13	10.68	0.710+j4.775	1.911+j10.778
LAS TRANCAS	TRN-115	115.0	6.15	5.38	2.198+j10.573	2.782+j15.204	7.19	6.17	1.879+j9.975	2.756+j14.876
LAS VIGAS DOS	VGS-115	115.0	4.58	3.11	2.903+j14.202	7.335+j34.207	5.59	3.59	2.324+j12.858	7.303+j34.040
LERDO	LRD-115	115.0	1.87	1.05	11.764+j33.415	31.136+j114.875	2.25	1.52	9.978+j30.923	19.380+j76.735
LIBERACIÓN MEXICANA	LMX-115	115.0	2.90	2.29	5.916+j22.115	8.017+j40.632	3.35	2.58	5.404+j21.120	8.011+j40.474
LIBRES	LIB-115	115.0	4.73	3.08	3.794+j13.517	8.307+j35.793	5.37	3.44	3.593+j13.121	8.335+j35.582
LOMA BONITA DOS	LBD-115	115.0	3.43	2.03	5.190+j18.628	17.435+j57.141	3.91	2.29	4.969+j18.019	17.278+j55.804
LOMAS	LMS-115	115.0	10.14	0.17	1.267+j6.422	176.680+j-255.552	21.42	0.18	1.179+j6.284	176.680+j-255.552
LOMAS COCOYOC	LOC-115	115.0	9.21	6.42	1.518+j7.051	3.251+j16.284	10.27	7.11	1.442+j6.964	3.250+j16.253
LOMAS DEL MAR	LMM-115	115.0	5.55	6.35	4.153+j11.215	1.185+j7.434	7.72	8.34	2.454+j9.132	1.187+j7.281
LÓPEZ MATEOS	LME-115	115.0	11.73	8.90	1.620+j5.426	1.993+j11.035	14.08	10.58	1.506+j4.963	1.968+j10.261
LOS AMATES	LAT-230	230.0	3.38	4.12	13.724+j36.803	1.815+j18.417	5.00	5.74	7.269+j28.285	1.874+j17.982
LOS AMATES	LAT-115	115.0	6.20	8.05	3.890+j9.970	0.259+j3.463	8.93	11.16	2.195+j7.877	0.261+j3.311
LOS ARCOS	AOS-115	115.0	14.01	14.98	0.618+j4.699	0.298+j3.818	15.78	16.78	0.536+j4.598	0.297+j3.790
LOS RÍOS	LRS-230	230.0	4.40	3.67	5.399+j29.696	9.371+j47.613	6.68	5.34	2.818+j21.684	6.851+j37.867
LOS RÍOS	LRS-115	115.0	5.30	1.47	2.130+j12.356	45.750+j101.661	6.74	1.66	1.454+j10.740	45.728+j101.523
LUIS GIL PEREZ	LGI-115	115.0	11.32	9.51	0.823+j5.808	2.172+j9.358	13.10	10.76	0.745+j5.527	2.167+j9.302
MACTUMATZA	MAA-115	115.0	9.57	6.06	1.510+j6.771	2.991+j18.776	11.78	7.04	1.224+j6.077	2.972+j18.463
MACULTEPEC	MCL-115	115.0	6.81	5.43	2.126+j9.514	6.153+j16.294	7.80	6.10	1.983+j9.150	6.152+j16.273
MACUSPANA	MCP-115	115.0	5.72	4.66	2.270+j11.384	6.553+j18.616	6.77	5.34	1.984+j10.603	6.539+j18.490
MACUSPANA DOS	MCD-230	230.0	9.58	9.15	2.262+j13.678	2.270+j15.926	13.18	11.64	1.373+j11.001	2.211+j15.399
MACUSPANA DOS	MCD-115	115.0	10.52	11.73	0.827+j6.254	0.274+j4.433	13.16	14.24	0.574+j5.520	0.261+j4.308
MAGDALENA MANIOBRAS DOS	MDM-230	230.0	8.22	8.65	2.428+j15.974	1.703+j13.658	9.93	10.18	1.893+j14.586	1.681+j13.527
MAGUEYITOS	MGY-115	115.0	1.37	0.88	14.645+j46.033	30.813+j126.957	1.54	1.02	14.102+j45.366	27.531+j116.814



Subestación Eléctrica	Acrónimo	Tensión (kV)	Corriente de cortocircuito (kA) e impedancias de Thévenin secuencias positiva y cero (Ω)							
			NCC mínimo 2026				NCC máximo 2026			
			3F	1F	ZTH(+)	ZTH(0)	3F	1F	ZTH(+)	ZTH(0)
MALINALTEPEC	MLN-115	115.0	0.85	0.48	23.082+j74.777	62.288+j247.054	0.95	0.54	22.077+j74.063	62.157+j246.685
MALPASO	MPS-400	400.0	14.79	16.24	2.188+j15.455	1.170+j11.580	29.34	32.02	0.606+j8.636	0.422+j6.173
MALPASO	MPS-115	115.0	5.85	6.77	1.813+j11.207	0.418+j6.781	6.89	8.02	1.575+j10.487	0.341+j6.133
MALPASO DOS	MPD-230	230.0	12.33	13.93	0.950+j10.730	0.313+j7.174	17.90	19.63	0.369+j8.150	0.206+j5.935
MALPASO TRES	MPE-115	115.0	5.76	6.56	1.857+j11.385	0.545+j7.365	6.77	7.75	1.620+j10.666	0.468+j6.717
MANDINGA	MDG-115	115.0	9.61	3.74	1.315+j6.785	14.705+j36.749	12.66	4.64	0.905+j5.698	13.651+j33.238
MANIOBRAS GENERADORES EÓLICOS DE MÉXICO	GEM-115	115.0	1.99	2.12	9.985+j31.886	3.874+j27.200	2.29	2.42	9.263+j30.512	3.797+j26.828
MANIOBRAS MEDIA LUNA	MLM-230	230.0	3.76	3.77	10.228+j33.756	6.094+j34.687	7.72	7.19	2.794+j18.722	4.113+j22.405
MANIOBRAS PRO MDF	MPR-115	115.0	7.12	5.85	2.573+j8.965	3.762+j15.022	8.15	6.62	2.462+j8.621	3.680+j14.782
MANIOBRAS SOLAR XOXOCOTLA	SMX-115	115.0	9.29	9.00	1.170+j7.047	0.965+j7.784	10.74	10.23	1.012+j6.722	0.965+j7.774
MANLIO FABIO ALTAMIRANO	MFA-400	400.0	12.99	13.66	2.992+j17.522	2.061+j15.103	19.41	18.73	1.389+j13.017	2.083+j14.315
MANLIO FABIO ALTAMIRANO	MFA-230	230.0	16.77	19.62	1.437+j7.785	0.529+j4.483	24.91	27.31	0.713+j5.820	0.547+j4.249
MANLIO FABIO ALTAMIRANO	MFA-115	115.0	19.44	18.85	0.506+j3.377	0.361+j3.733	25.77	23.84	0.327+j2.816	0.354+j3.500
MANUEL MORENO TORRES	MMT-400	400.0	14.10	16.91	2.436+j16.192	0.574+j8.376	32.63	38.16	0.487+j7.770	0.231+j4.155
MANUEL MORENO TORRES	MMT-115	115.0	13.45	16.09	0.726+j4.884	0.082+j2.537	17.30	20.15	0.476+j4.195	0.078+j2.415
MAPASTEPEC	MAP-115	115.0	3.75	2.58	5.053+j16.966	11.616+j40.033	4.51	3.10	4.243+j15.647	10.588+j36.624
MARTÍNEZ DE LA TORRE DOS	MDD-115	115.0	3.77	3.03	4.273+j17.064	8.767+j29.353	4.42	3.54	3.839+j16.070	8.378+j27.672
MARTÍNEZ DE LA TORRE TRES	MTT-115	115.0	3.69	2.81	4.145+j17.502	9.345+j33.680	4.29	3.25	3.754+j16.600	9.013+j32.241
MATAPIONCHE	MPH-115	115.0	2.44	1.38	6.600+j26.430	25.070+j86.744	2.91	1.65	5.917+j24.388	23.226+j78.948
MATÍAS ROMERO	MRO-115	115.0	6.43	5.29	2.205+j10.096	3.413+j16.754	8.06	6.24	1.791+j8.879	3.385+j16.676
MATÍAS ROMERO POTENCIA	MSP-230	230.0	5.65	5.85	3.624+j23.227	4.339+j20.953	7.92	7.57	2.224+j18.313	4.235+j20.693
MATÍAS ROMERO POTENCIA	MSP-115	115.0	8.87	9.32	1.167+j7.390	0.904+j6.418	11.52	11.52	0.807+j6.286	0.865+j6.313
MAZATAN	MAZ-115	115.0	4.15	3.57	3.998+j15.483	6.541+j22.859	5.01	4.20	3.222+j14.231	6.602+j22.021
MAZATEPEC	MZT-230	230.0	6.70	5.09	2.946+j19.602	8.884+j37.699	10.96	10.48	1.299+j13.265	1.257+j13.406
MEDIA LUNA	MLU-115	115.0	3.23	2.58	6.682+j19.451	12.630+j33.851	4.14	3.10	4.856+j16.939	12.603+j33.140
METALOIDES	MET-115	115.0	19.75	14.22	0.780+j3.271	1.363+j7.174	22.80	16.11	0.698+j3.126	1.353+j7.083
METEPEC	MEC-115	115.0	6.99	4.04	2.348+j9.199	7.943+j29.305	7.82	4.48	2.258+j9.063	7.928+j29.192
METLATONOC	MTL-115	115.0	0.95	0.59	20.105+j67.109	44.472+j192.147	1.09	0.66	18.061+j64.737	44.465+j191.849
MEZCALA	MZL-230	230.0	4.57	5.52	9.433+j27.493	1.315+j14.361	9.05	10.05	2.939+j15.873	1.261+j11.023
MEZCALA	MZL-115	115.0	7.31	8.21	2.653+j8.684	0.394+j6.206	12.19	12.50	0.943+j5.918	0.370+j5.502
MEZCALAPA	MEZ-115	115.0	6.18	4.84	2.453+j10.459	6.248+j18.824	7.09	5.46	2.309+j10.034	6.236+j18.607
MEZCALAPA SWITCHEO	MZW-230	230.0	7.90	6.34	2.313+j16.660	5.485+j28.998	10.50	8.26	1.571+j13.816	4.587+j24.912
MIAHUATLAN	MHT-115	115.0	1.99	1.29	10.034+j31.851	22.219+j85.345	2.21	1.44	9.723+j31.556	21.870+j83.815
MIAHUATLÁN DOS	MUD-115	115.0	2.13	1.39	9.233+j29.793	19.946+j78.126	2.37	1.55	8.930+j29.498	19.663+j76.850
MINAS	MIS-69	69.0	1.46	1.01	6.041+j26.610	15.024+j61.787	2.31	2.45	3.067+j18.758	0.963+j15.769
MINATITLÁN DOS	MID-400	400.0	11.99	12.93	2.748+j19.060	1.566+j15.724	19.16	18.40	1.453+j13.176	1.576+j15.017
MINATITLÁN DOS	MID-115	115.0	26.60	29.32	0.345+j2.472	0.104+j1.892	36.51	38.10	0.215+j1.989	0.107+j1.791
MINATITLÁN UNO	MIU-115	115.0	9.10	5.74	1.230+j7.192	4.334+j19.753	10.98	6.59	1.044+j6.567	4.316+j19.534
MINERA AUTLÁN, PUÉ.	MAU-115	115.0	7.25	6.65	1.968+j8.940	1.364+j11.590	9.35	8.73	1.460+j7.675	1.330+j9.367
MINERA CAPELA	MCA-115	115.0	1.48	0.97	13.944+j42.607	31.171+j111.732	1.74	1.10	12.065+j40.186	31.142+j111.012



Niveles de cortocircuito de la Red Nacional de Transmisión
Gerencia de Control Regional Oriental

Subestación Eléctrica	Acrónimo	Tensión (kV)	Corriente de cortocircuito (kA) e impedancias de Thévenin secuencias positiva y cero (Ω)							
			NCC mínimo 2026				NCC máximo 2026			
			3F	1F	ZTH(+)	ZTH(0)	3F	1F	ZTH(+)	ZTH(0)
MINERA CUZCATLAN	MCN-115	115.0	3.00	2.16	5.588+j21.389	10.225+j46.953	3.36	2.41	5.336+j21.065	10.154+j46.510
MINERA FILOS-BERMEJAL	MFB-115	115.0	5.03	4.34	3.707+j12.667	3.319+j19.239	7.22	5.60	1.985+j9.922	3.295+j18.535
MINERA MEDIA LUNA	LUD-230	230.0	3.69	3.66	10.335+j34.451	6.703+j36.528	7.44	6.81	2.892+j19.428	4.722+j24.246
MISANTLA DOS	MSD-115	115.0	2.09	1.61	8.612+j30.652	20.857+j56.656	2.37	1.82	8.164+j29.676	20.462+j54.967
MITLA	MTX-115	115.0	1.95	1.28	9.254+j32.763	19.758+j85.034	2.17	1.42	9.010+j32.436	19.727+j84.680
MOCAMBO	MCB-115	115.0	14.93	9.49	0.928+j4.348	1.940+j11.964	20.84	12.78	0.587+j3.456	1.432+j10.032
MOCAMBO	MCB-115B	115.0	14.93	9.49	0.928+j4.348	1.940+j11.964	20.84	12.78	0.587+j3.456	1.432+j10.032
MOTOZINTLA	MTO-115	115.0	1.62	1.03	13.694+j38.566	36.438+j105.004	1.85	1.17	12.681+j37.338	35.824+j102.402
MOZIMBA	MOZ-115	115.0	5.21	5.96	4.117+j12.060	1.939+j7.732	7.18	7.76	2.429+j9.871	1.961+j7.637
MUNDO IMPERIAL	MIP-115	115.0	4.72	4.62	4.796+j13.230	3.098+j14.772	6.28	5.74	3.100+j11.203	3.101+j14.625
NANCHITAL DOS	NND-115	115.0	9.81	6.72	1.555+j6.587	3.363+j15.820	11.65	7.67	1.423+j6.108	3.366+j15.719
NAONILCO	NAO-115	115.0	4.15	3.31	3.638+j15.581	5.550+j27.578	4.78	3.75	3.296+j14.910	5.515+j27.200
NESTLÉ OLMECA	NST-115	115.0	12.55	10.35	0.929+j5.209	1.642+j8.511	15.78	12.29	0.689+j4.576	1.637+j8.412
NISSAN	NSN-115	115.0	10.18	9.16	1.173+j6.415	1.288+j8.607	11.51	10.28	1.029+j6.262	1.275+j8.532
NOCHIXTLAN	NCH-115	115.0	1.94	1.28	9.832+j32.815	26.742+j83.339	2.15	1.41	9.632+j32.583	26.727+j83.095
NOGALES	NGL-115	115.0	9.25	6.62	1.952+j6.908	3.602+j15.330	11.16	7.72	1.704+j6.316	3.535+j14.894
NORTE	NOR-115	115.0	33.14	26.87	0.426+j1.957	0.573+j3.380	39.69	31.45	0.345+j1.808	0.559+j3.257
NUEVO MORELOS	NMO-115	115.0	3.73	2.27	4.747+j17.174	11.671+j50.694	4.26	2.55	4.517+j16.542	11.602+j50.344
NUEVO PEMEX	NPX-115	115.0	4.54	3.43	3.080+j14.313	10.931+j27.280	5.08	3.81	3.012+j14.046	10.924+j27.209
OAXACA	OAX-115	115.0	4.55	4.05	3.758+j14.086	4.475+j19.535	5.15	4.56	3.515+j13.740	4.440+j19.159
OAXACA DOS	OXD-115	115.0	5.72	5.13	2.891+j11.237	3.260+j15.338	6.52	5.81	2.656+j10.886	3.229+j14.986
OAXACA PONIENTE	OAP-115	115.0	4.89	4.91	3.492+j13.126	2.619+j13.206	5.54	5.55	3.251+j12.778	2.583+j12.822
OAXACA POTENCIA	OXP-230	230.0	3.94	4.01	7.598+j32.844	3.246+j31.879	4.58	4.64	6.686+j31.170	3.097+j30.544
OAXACA POTENCIA	OXP-115	115.0	6.63	7.69	2.398+j9.718	0.400+j5.944	7.60	8.86	2.164+j9.360	0.361+j5.550
OAXACA UNO	OAU-230	230.0	3.44	4.13	6.244+j38.125	2.289+j19.468	5.06	5.70	3.740+j28.614	2.248+j19.217
OCOZINGO	OCO-115	115.0	1.14	0.73	19.019+j55.317	59.339+j144.054	1.27	0.81	18.560+j54.657	59.263+j143.004
OCOZOCUAUTLA	OCZ-115	115.0	6.74	4.62	2.272+j9.588	4.654+j22.940	7.99	5.28	1.987+j8.921	4.644+j22.719
OJO DE AGUA POTENCIA	OJP-400	400.0	12.16	12.69	3.288+j18.700	1.692+j16.714	18.86	17.51	1.922+j13.333	1.686+j16.516
OJO DE AGUA POTENCIA	OJP-115	115.0	20.25	20.91	0.547+j3.233	0.267+j2.973	26.26	26.01	0.353+j2.758	0.268+j2.851
OLINALA	OLN-115	115.0	1.20	0.86	15.401+j52.938	34.705+j116.938	1.40	0.97	13.409+j50.508	34.699+j116.645
OMEALCA	OME-115	115.0	3.24	1.74	3.338+j20.213	16.471+j71.637	4.30	3.15	2.387+j16.828	6.469+j34.905
OMETEPEC	OMT-115	115.0	1.53	0.88	15.856+j40.375	37.674+j134.243	1.72	0.98	14.987+j39.771	37.515+j133.806
ORIENTE	ORT-115	115.0	17.88	12.66	0.824+j3.621	1.607+j8.158	20.47	14.22	0.743+j3.489	1.605+j8.127
ORIZABA	ORI-115	115.0	14.87	13.58	0.923+j4.370	1.006+j5.654	19.31	17.37	0.646+j3.726	0.866+j4.977
OXCHUC	OXC-115	115.0	1.58	1.02	13.270+j39.995	41.125+j103.542	1.77	1.14	12.810+j39.296	41.053+j102.498
PAGÉS	PAG-115	115.0	17.32	12.79	0.784+j3.752	1.176+j7.833	23.70	15.83	0.514+j3.038	1.126+j7.590
PAGÉS	PAG-115B	115.0	17.32	12.79	0.784+j3.752	1.176+j7.833	23.70	15.83	0.514+j3.038	1.126+j7.590
PAJARITOS DOS	PJD-115	115.0	16.38	13.82	0.729+j3.988	0.650+j6.404	20.63	17.63	0.603+j3.489	0.604+j5.390
PAKAL	PKN-115	115.0	2.60	1.02	5.792+j24.877	59.479+j132.379	3.06	1.14	5.085+j23.300	59.457+j132.241
PALENQUE	PLQ-115	115.0	2.11	0.89	7.546+j30.623	65.734+j146.533	2.45	1.00	6.829+j29.063	65.712+j146.395



**Niveles de cortocircuito de la Red Nacional de Transmisión
Gerencia de Control Regional Oriental**

Subestación Eléctrica	Acrónimo	Tensión (kV)	Corriente de cortocircuito (kA) e impedancias de Thévenin secuencias positiva y cero (Ω)							
			NCC mínimo 2026				NCC máximo 2026			
			3F	1F	ZTH(+)	ZTH(0)	3F	1F	ZTH(+)	ZTH(0)
PALMAR DE BRAVO	PLB-115	115.0	4.56	3.20	4.915+j13.693	8.047+j32.301	5.09	3.55	4.794+j13.521	8.008+j32.095
PALMAS	PMM-115	115.0	9.86	8.18	0.879+j6.673	2.096+j10.680	13.43	10.08	0.628+j5.402	2.095+j10.664
PANOTLA	PNA-115	115.0	12.03	7.98	1.568+j5.293	3.892+j13.394	13.55	8.88	1.493+j5.180	3.890+j13.372
PANTEPEC	PPC-230	230.0	5.45	5.22	3.970+j24.033	2.777+j27.502	6.37	6.01	3.569+j22.643	2.663+j26.994
PANTEPEC	PPC-115	115.0	8.69	9.84	1.305+j7.526	0.387+j4.984	10.04	11.34	1.201+j7.173	0.356+j4.774
PAPAGAYO	PPG-115	115.0	4.16	2.97	5.336+j15.039	13.796+j32.352	5.35	3.52	3.701+j13.147	13.799+j32.230
PAPALOTLA	PPL-115	115.0	19.59	13.03	0.636+j3.329	1.896+j8.313	22.61	14.77	0.554+j3.183	1.881+j8.184
PAPANOA	PPN-115	115.0	1.25	1.16	11.969+j51.636	39.120+j56.112	2.40	1.99	7.701+j29.390	25.504+j43.229
PAPANTLA DISTRIBUCIÓN	PPD-115	115.0	9.22	6.98	1.080+j7.119	3.097+j13.819	11.32	8.10	0.932+j6.385	3.096+j13.796
PAPANTLA POTENCIA	PPT-400	400.0	14.99	12.92	1.588+j15.323	4.308+j22.345	19.57	15.81	0.995+j12.940	4.360+j21.734
PAPANTLA POTENCIA	PPT-115	115.0	18.61	17.75	0.282+j3.556	0.559+j4.046	22.35	20.77	0.223+j3.260	0.556+j3.969
PAPELERA TUXTEPEC	PTU-230	230.0	5.04	3.63	3.995+j26.059	12.570+j55.772	6.01	4.19	3.324+j24.061	12.535+j54.670
PARAÍSO	PSO-115	115.0	6.81	5.78	1.875+j9.573	3.938+j14.553	7.81	6.55	1.728+j9.196	3.862+j14.320
PAREDÓN PEMEX	PPX-115	115.0	2.58	1.83	6.459+j24.925	21.557+j53.538	2.89	2.03	6.306+j24.506	21.544+j53.320
PARQUE INDUSTRIAL	PRQ-115	115.0	5.47	4.01	2.109+j11.964	7.704+j24.449	6.21	4.48	1.974+j11.591	7.665+j24.352
PARQUE INDUSTRIAL API	API-115	115.0	5.33	4.26	2.661+j12.166	6.731+j20.900	6.06	4.79	2.510+j11.792	6.655+j20.667
PARQUE INDUSTRIAL DE ENERGÍA RENOVABLE, S.A. DE C.V.	PIE-230	230.0	4.80	5.16	2.628+j27.527	1.707+j21.876	5.37	5.77	2.443+j27.069	1.674+j21.502
PARRILLA	PLL-115	115.0	16.06	14.26	0.627+j4.086	0.945+j5.740	19.79	16.80	0.470+j3.660	0.933+j5.655
PASO DEL TORO	PDT-115	115.0	13.10	9.31	1.144+j4.937	2.383+j11.020	18.10	13.31	0.761+j3.962	1.584+j8.236
PE INGENIO	EIN-230	230.0	3.49	4.13	5.647+j37.639	2.522+j20.625	5.33	5.83	2.983+j27.230	2.489+j20.368
PERIFÉRICO SUR	PES-115	115.0	8.97	6.21	1.315+j7.283	3.674+j17.056	10.42	7.00	1.182+j6.911	3.670+j17.009
PEROTE DOS	PEE-115	115.0	4.80	5.01	2.751+j13.548	2.695+j11.792	6.12	6.11	2.035+j11.753	2.653+j11.672
PETATLÁN	PTT-115	115.0	1.93	1.74	7.265+j33.654	23.396+j40.487	3.07	2.61	5.611+j23.139	18.008+j32.549
PETROQUÍMICA ESCOLIN	PQS-115	115.0	11.48	11.38	0.891+j5.716	1.859+j5.685	16.40	14.77	0.645+j4.407	1.859+j5.668
PEÑITAS	PEA-230	230.0	10.06	8.73	1.653+j13.101	3.351+j19.146	16.34	17.22	0.691+j8.911	0.510+j7.494
PEÑITAS	PEA-115	115.0	4.12	3.32	3.519+j15.723	9.709+j26.298	4.70	3.74	3.338+j15.187	9.679+j25.932
PEÑITAS DOS	PED-115	115.0	4.11	3.32	3.518+j15.750	9.680+j26.239	4.69	3.74	3.336+j15.211	9.650+j25.870
PICHUCALCO	PCO-115	115.0	2.23	1.54	7.909+j28.639	27.726+j64.771	2.49	1.70	7.729+j28.235	27.711+j64.677
PIE DE LA CUESTA	PIC-230	230.0	3.62	4.44	12.600+j34.397	1.806+j16.821	5.40	6.19	6.545+j26.272	1.905+j16.558
PIE DE LA CUESTA	PIC-115	115.0	6.22	8.08	3.570+j10.068	0.271+j3.370	9.06	11.29	1.931+j7.831	0.290+j3.286
PIEDRAS NEGRAS	PNS-115	115.0	5.28	3.02	2.644+j12.295	9.194+j39.774	7.02	4.08	2.011+j10.201	7.385+j32.033
PIER II QUECHOLAC FELIPE ÁNGELES S.A. DE C.V.	PDQ-115	115.0	5.94	5.55	2.872+j10.810	1.599+j13.488	6.67	6.26	2.736+j10.608	1.518+j13.069
PINOTEPA NACIONAL	PIN-115	115.0	1.63	0.94	14.343+j38.182	32.835+j127.524	1.81	1.04	13.824+j37.854	32.524+j126.657
PLAYA DIAMANTE	PDI-115	115.0	4.99	5.25	4.547+j12.491	2.301+j11.232	6.73	6.64	2.849+j10.465	2.304+j11.085
PLAYA NORTE	PYN-115	115.0	18.12	14.44	0.729+j3.592	0.945+j6.412	24.91	17.98	0.468+j2.895	0.919+j6.248
PLAYA VICENTE	PVC-115	115.0	1.85	1.05	9.444+j34.673	36.095+j112.435	2.07	1.17	9.218+j34.070	35.935+j111.092
PLAYAS	PYS-115	115.0	4.71	4.98	4.533+j13.351	2.604+j11.510	6.33	6.29	2.833+j11.192	2.630+j11.409
POCHUTLA	POC-115	115.0	1.62	1.02	14.044+j38.427	31.142+j108.960	1.81	1.15	13.636+j38.071	29.700+j105.102
POLIDESA	PLS-115	115.0	11.71	8.62	1.284+j5.520	2.817+j11.473	13.31	9.64	1.183+j5.358	2.812+j11.453
POLIFIL	POF-115	115.0	18.12	14.43	0.701+j3.597	1.220+j6.377	20.52	16.15	0.636+j3.502	1.219+j6.344



Niveles de cortocircuito de la Red Nacional de Transmisión
Gerencia de Control Regional Oriental

Subestación Eléctrica	Acrónimo	Tensión (kV)	Corriente de cortocircuito (kA) e impedancias de Thévenin secuencias positiva y cero (Ω)							
			NCC mínimo 2026				NCC máximo 2026			
			3F	1F	ZTH(+)	ZTH(0)	3F	1F	ZTH(+)	ZTH(0)
POMOCA	PMC-115	115.0	15.71	16.30	0.677+j4.171	0.497+j3.888	19.00	19.07	0.540+j3.805	0.496+j3.866
PONIENTE	PON-115	115.0	23.20	16.23	0.689+j2.778	1.310+j6.440	27.00	18.46	0.604+j2.637	1.299+j6.346
PORCEL	POR-115	115.0	19.81	13.11	0.667+j3.285	1.850+j8.312	22.83	14.80	0.586+j3.146	1.841+j8.219
POTRERO DOS	PTD-115	115.0	6.39	4.64	3.120+j9.904	6.361+j21.266	7.40	5.24	2.916+j9.433	6.353+j21.156
POZA RICA	PRI-230	230.0	13.50	14.84	1.010+j9.781	0.650+j7.141	18.50	19.12	0.531+j7.878	0.663+j6.977
POZA RICA	PRI-115	115.0	15.85	20.43	0.441+j4.167	0.052+j1.367	26.12	31.49	0.181+j2.790	0.052+j1.351
POZA RICA	PRI-69	69.0	13.39	18.46	0.192+j2.968	0.027+j0.522	24.01	31.38	0.056+j1.824	0.028+j0.536
POZA RICA DOS	PRD-400	400.0	21.91	19.59	1.071+j10.484	2.205+j14.003	31.34	25.82	0.536+j8.087	2.207+j12.966
POZA RICA DOS	PRD-230	230.0	14.78	16.56	0.834+j8.948	0.401+j6.054	20.16	21.43	0.420+j7.232	0.396+j5.820
POZA RICA TRES	PRT-69	69.0	8.85	8.11	0.480+j4.477	1.101+j5.640	13.06	10.55	0.336+j3.338	1.101+j5.654
POZO RANEY	PZR-115	115.0	4.18	2.86	5.224+j14.993	26.848+j28.864	5.45	3.41	3.539+j12.914	26.865+j28.756
POZOS HUAZUNTLAN	POZ-115	115.0	5.35	3.46	4.257+j11.665	8.628+j31.753	6.15	3.89	4.106+j11.148	8.595+j31.455
PROCTER & GAMBLE MANUFACTURAS S DE R.L. DE C.V.	PGC-115	115.0	9.09	7.70	1.324+j7.180	1.531+j11.553	10.14	8.57	1.261+j7.088	1.495+j11.423
PROENERMEX SANTA GERTRUDIS	PSG-115	115.0	12.61	10.13	1.004+j5.170	1.892+j8.936	15.85	12.69	0.747+j4.548	1.556+j7.904
PUEBLA DOS	PBD-400	400.0	21.23	22.08	2.232+j10.647	1.185+j9.676	28.69	28.04	1.318+j8.756	1.150+j9.449
PUEBLA DOS	PBD-230	230.0	16.92	18.09	1.160+j7.760	0.465+j6.365	19.96	20.91	0.854+j7.269	0.454+j6.328
PUEBLA DOS	PBD-115	115.0	38.52	37.16	0.317+j1.694	0.145+j1.928	46.20	43.45	0.238+j1.563	0.142+j1.889
PUEBLA DOS	PBD-115B	115.0	38.52	37.16	0.317+j1.694	0.145+j1.928	46.20	43.45	0.238+j1.563	0.142+j1.889
PUEBLA DOS MIL	PDM-115	115.0	25.17	19.65	0.553+j2.580	0.821+j4.805	29.29	22.32	0.472+j2.448	0.818+j4.769
PUEBLA UNO SF6	PSF-115	115.0	19.04	12.59	0.866+j3.378	1.576+j8.732	21.88	14.16	0.783+j3.245	1.570+j8.674
PUENTE DE IXTLA	PTI-85	85.0	2.98	1.60	2.928+j16.179	10.217+j58.320	3.35	1.78	2.778+j15.886	10.215+j58.082
PUERTO CHIAPAS	PUC-115	115.0	2.90	2.24	6.970+j21.798	13.539+j40.866	3.40	2.57	6.170+j20.601	13.598+j40.023
PUERTO ESCONDIDO	PUE-115	115.0	1.28	0.75	18.809+j48.536	41.425+j156.322	1.41	0.84	18.387+j48.258	40.406+j153.612
PUERTO FRANCO	PFR-115	115.0	11.53	9.06	1.515+j5.556	1.812+j10.473	13.85	10.81	1.399+j5.086	1.783+j9.651
PUERTO MADERO	PTM-115	115.0	3.09	2.42	6.598+j20.422	12.086+j37.563	3.64	2.78	5.799+j19.222	12.145+j36.720
PUERTO MARQUEZ	PUM-115	115.0	5.67	6.61	4.073+j10.979	0.985+j6.773	7.93	8.73	2.374+j8.894	0.988+j6.620
PUNTA IXTAPA, GRO.	PUI-115	115.0	4.14	3.16	2.291+j15.857	6.255+j30.360	6.02	4.26	2.048+j11.951	6.067+j26.452
PUNTA LIMÓN	PLI-115	115.0	1.94	1.38	8.329+j33.154	14.482+j74.453	2.14	1.52	8.288+j33.079	14.465+j74.311
QUEMADO	QMD-230	230.0	3.47	4.38	13.565+j35.778	1.051+j14.777	5.19	6.20	7.097+j27.225	1.161+j14.413
QUEMADO	QMD-115	115.0	6.58	8.86	3.714+j9.382	0.131+j2.396	9.78	12.74	2.010+j7.196	0.160+j2.278
QUEMADO	QMD-69	69.0	8.11	10.80	1.341+j4.726	0.022+j1.272	11.37	14.79	0.703+j3.788	0.077+j1.184
REAL DEL BOSQUE	RDB-115	115.0	9.37	6.87	1.454+j6.933	2.710+j14.577	11.52	8.06	1.170+j6.230	2.686+j14.232
REFINERÍA LÁZARO CÁRDENAS RECONFIGURACIÓN	RLC-115	115.0	10.47	6.87	1.041+j6.259	3.513+j16.015	13.63	11.52	0.759+j5.306	0.920+j8.303
REFINERÍA MINATITLÁN	RMN-115	115.0	9.01	5.72	1.206+j7.272	4.368+j19.677	11.25	6.66	0.953+j6.419	4.362+j19.522
REFINERÍA PEMEX	RFP-115	115.0	10.67	7.02	1.006+j6.139	3.414+j15.652	13.89	11.65	0.733+j5.207	0.956+j8.282
REFINERÍA SALINA CRUZ	RSC-115	115.0	3.12	3.04	5.075+j20.635	5.693+j22.888	4.13	3.77	3.633+j17.304	5.545+j22.385
RENACIMIENTO	REN-115	115.0	6.05	7.68	3.994+j10.231	0.408+j4.082	8.69	10.56	2.288+j8.088	0.418+j3.948
RESURRECCIÓN	RSN-115	115.0	14.70	9.76	0.976+j4.410	2.356+j11.147	16.72	10.92	0.895+j4.275	2.351+j11.090
REYES MANTECÓN	RMC-115	115.0	5.20	4.57	2.989+j12.411	3.613+j17.665	5.90	5.17	2.752+j12.062	3.564+j17.275
RIO BLANCO	RBO-115	115.0	8.98	6.39	1.647+j7.208	3.574+j15.986	10.76	7.39	1.406+j6.642	3.537+j15.682



Niveles de cortocircuito de la Red Nacional de Transmisión
Gerencia de Control Regional Oriental

Subestación Eléctrica	Acrónimo	Tensión (kV)	Corriente de cortocircuito (kA) e impedancias de Thévenin secuencias positiva y cero (Ω)							
			NCC mínimo 2026				NCC máximo 2026			
			3F	1F	ZTH(+)	ZTH(0)	3F	1F	ZTH(+)	ZTH(0)
RÍO COATAN	RCT-115	115.0	3.61	2.84	5.411+j17.561	6.683+j32.815	4.60	3.88	3.982+j15.381	3.785+j24.418
RÍO COATAN	RCT-69	69.0	1.67	1.76	2.291+j23.723	1.451+j20.352	2.93	3.59	1.004+j14.921	0.196+j6.656
RÍO GRANDE (NEJAPA)	RGD-115	115.0	1.24	0.71	18.865+j50.162	43.067+j166.648	1.37	0.79	18.420+j49.889	42.317+j164.688
RÍO GRANDE (NEJAPA)	RGD-115B	115.0	0.99	0.57	22.632+j63.106	52.857+j207.976	1.10	0.63	22.192+j62.838	52.105+j206.013
RÍO MEDIO	RME-115	115.0	15.78	12.59	0.874+j4.116	1.171+j7.330	20.94	15.31	0.617+j3.432	1.161+j7.238
RODRÍGUEZ CLARA	RDC-115	115.0	2.66	1.62	6.696+j24.032	19.055+j70.285	2.99	1.81	6.507+j23.555	18.927+j69.389
SACRIFICIOS	SCF-115	115.0	15.34	9.68	0.897+j4.234	1.791+j11.794	21.19	12.47	0.581+j3.398	1.475+j10.563
SALINA CRUZ	SAC-115	115.0	3.43	3.29	4.495+j18.843	5.656+j21.574	4.52	4.07	3.223+j15.817	5.541+j21.202
SALOYA	SYA-115	115.0	14.68	12.81	0.826+j4.447	1.267+j6.560	17.58	14.76	0.697+j4.097	1.266+j6.535
SAMARIA	SMI-115	115.0	9.26	6.49	1.178+j7.075	3.443+j16.239	10.69	7.30	1.070+j6.749	3.441+j16.203
SAMARIA	SMI-115B	115.0	9.26	6.49	1.178+j7.075	3.443+j16.239	10.69	7.30	1.070+j6.749	3.441+j16.203
SAN CRISTÓBAL ORIENTE	SCO-115	115.0	2.68	1.75	7.386+j23.621	21.804+j60.781	3.06	1.97	6.941+j22.871	21.739+j59.751
SAN FELIPE OAXACA	SFO-115	115.0	4.50	3.93	3.691+j14.279	4.866+j20.620	5.09	4.42	3.452+j13.925	4.831+j20.247
SAN JACINTO TLACOTEPEC	JTL-115	115.0	1.67	1.00	10.517+j38.309	26.527+j115.845	1.86	1.11	10.150+j38.026	26.333+j115.151
SAN JERÓNIMO	JRN-115	115.0	1.76	1.38	11.419+j35.954	21.511+j65.719	2.81	2.14	6.841+j25.050	16.312+j47.650
SAN JOSÉ CHIAPA	JOC-230	230.0	4.98	3.50	4.220+j26.310	15.300+j58.914	5.86	4.05	3.559+j24.679	14.611+j56.330
SAN LORENZO	LRZ-115	115.0	38.93	34.44	0.306+j1.678	0.283+j2.380	47.48	41.50	0.225+j1.522	0.262+j2.211
SAN LORENZO CACAOTEPEC	SLZ-115	115.0	6.07	6.18	2.671+j10.613	1.727+j10.236	6.93	7.05	2.437+j10.257	1.690+j9.851
SAN LUIS	SNL-115	115.0	2.64	1.48	6.102+j24.438	23.069+j80.807	3.17	1.79	5.421+j22.394	21.227+j73.014
SAN LUIS ACATLÁN	SLU-115	115.0	1.20	0.69	19.309+j51.767	47.642+j173.156	1.35	0.76	18.309+j51.050	47.512+j172.788
SAN LUIS MORELIA	SSM-115	115.0	1.14	0.66	18.477+j54.978	43.827+j181.785	1.26	0.72	18.358+j54.865	43.826+j181.762
SAN LUIS SAN PEDRO	SLS-115	115.0	1.06	0.73	18.519+j59.886	39.626+j144.005	2.30	1.73	8.348+j30.704	23.830+j58.247
SAN MARTIN	MAR-115	115.0	24.04	20.51	0.458+j2.724	0.649+j4.153	27.63	23.21	0.388+j2.615	0.646+j4.116
SAN MARTIN	SMT-115	115.0	3.71	2.37	4.654+j17.300	13.193+j46.278	4.27	2.69	4.258+j16.547	13.152+j45.538
SAN MARTIN POTENCIA	MPT-400	400.0	16.63	14.20	2.296+j13.696	3.268+j20.855	20.44	16.65	1.514+j12.337	3.254+j20.695
SAN MARTIN POTENCIA	MPT-115	115.0	26.95	24.51	0.394+j2.432	0.390+j3.192	30.96	27.77	0.328+j2.336	0.389+j3.160
SAN MIGUEL	SMG-115	115.0	12.71	8.57	0.897+j5.144	4.555+j12.078	14.26	9.56	0.834+j5.054	4.503+j11.988
SAN MIGUEL SANTA FLOR	SMF-115	115.0	1.35	0.84	12.123+j47.569	45.860+j132.301	1.50	0.92	11.904+j47.283	45.836+j131.977
SAN PABLO HUIXTEPEC	HTP-115	115.0	4.43	4.23	3.477+j14.569	2.520+j17.029	5.00	4.77	3.231+j14.238	2.459+j16.616
SAN RAFAEL DOS	RFD-115	115.0	2.26	1.59	7.800+j28.346	23.363+j62.328	2.58	1.80	7.356+j27.365	22.968+j60.639
SANTA ANITA	STN-115	115.0	15.98	14.37	0.930+j4.049	1.535+j5.456	18.21	16.14	0.849+j3.920	1.528+j5.446
SANTA ELENA	SAE-115	115.0	1.38	0.83	16.983+j45.176	37.628+j138.412	1.53	0.93	16.569+j44.866	36.410+j135.171
SANTA FE	SNF-115	115.0	9.70	7.18	1.191+j6.738	2.804+j13.768	11.68	8.28	0.969+j6.177	2.800+j13.682
SANTA ROSA	RSO-115	115.0	1.27	0.73	18.505+j48.728	41.976+j162.971	1.41	0.81	18.043+j48.449	41.358+j161.362
SANTA SOFÍA	SNS-115	115.0	4.03	2.73	2.981+j16.222	9.102+j38.971	4.59	3.07	2.775+j15.680	8.984+j38.424
SANTO DOMINGO	STD-115	115.0	3.44	2.48	4.809+j18.671	9.462+j40.916	4.15	2.84	4.228+j17.089	9.458+j40.887
SARABIA	SRB-115	115.0	5.15	4.64	2.887+j12.558	3.419+j16.909	6.14	5.35	2.572+j11.622	3.382+j16.802
SCHPOINA	SCH-115	115.0	2.59	1.85	7.083+j24.588	20.676+j52.716	3.04	2.14	6.267+j23.155	20.206+j50.452
SIMOJOVEL	SMJ-115	115.0	1.15	0.73	15.591+j55.750	49.504+j149.295	1.27	0.81	15.400+j55.349	49.489+j149.199
SÍNTESIS ORGÁNICAS, TLAXCALA	SIA-115	115.0	10.73	7.89	1.402+j6.029	3.048+j12.561	12.15	8.80	1.301+j5.867	3.043+j12.541



Niveles de cortocircuito de la Red Nacional de Transmisión
Gerencia de Control Regional Oriental

Subestación Eléctrica	Acrónimo	Tensión (kV)	Corriente de cortocircuito (kA) e impedancias de Thévenin secuencias positiva y cero (Ω)							
			NCC mínimo 2026				NCC máximo 2026			
			3F	1F	ZTH(+)	ZTH(0)	3F	1F	ZTH(+)	ZTH(0)
SIVESA	SIV-115	115.0	10.78	10.00	1.703+j5.916	1.625+j7.458	13.51	12.28	1.379+j5.226	1.539+j6.868
SN. LORENZO POTENCIA	LRP-400	400.0	21.12	21.56	2.182+j10.717	1.178+j10.332	27.95	27.09	1.302+j8.995	1.090+j9.952
SN. LORENZO POTENCIA	LRP-115	115.0	46.57	46.47	0.263+j1.401	0.105+j1.459	58.12	58.07	0.182+j1.243	0.083+j1.284
SN. LORENZO POTENCIA	LRP-115B	115.0	46.57	46.47	0.263+j1.401	0.105+j1.459	58.12	58.07	0.182+j1.243	0.083+j1.284
SOLEDAD DE DOBLADO	SOD-115	115.0	4.04	2.32	3.885+j15.986	12.136+j51.498	4.64	2.60	3.621+j15.307	12.128+j51.372
SOYALÓ	SOY-115	115.0	5.21	3.52	3.029+j12.387	6.868+j30.290	6.09	4.00	2.714+j11.683	6.859+j30.034
SWITCHEO ARRIAGA	SWA-115	115.0	2.47	2.55	7.417+j25.889	3.639+j24.283	2.88	2.92	6.664+j24.493	3.624+j24.047
SWITCHEO VILLACOMALTITLAN	SWV-115	115.0	2.94	2.09	6.888+j21.524	16.536+j47.406	3.46	2.44	5.972+j20.233	15.887+j44.707
TABACHINES	TBH-85	85.0	5.59	4.72	1.421+j8.660	1.574+j13.560	6.38	5.34	1.279+j8.359	1.572+j13.325
TABASCO POTENCIA	TSP-400	400.0	9.12	9.11	3.621+j25.060	2.657+j25.732	13.15	11.88	1.796+j19.231	2.724+j25.392
TABASCO POTENCIA	TSP-230	230.0	13.80	15.50	1.383+j9.525	0.607+j6.659	19.29	20.25	0.745+j7.537	0.616+j6.535
TABASQUILLO	TBQ-115	115.0	1.94	1.62	8.760+j33.102	21.498+j50.668	2.16	1.79	8.605+j32.742	21.497+j50.646
TACOTALPA	TCT-115	115.0	2.50	1.75	6.948+j25.586	24.193+j56.540	2.80	1.94	6.767+j25.177	24.178+j56.446
TAJÍN	TAJ-115	115.0	13.40	13.93	0.663+j4.910	1.238+j4.242	16.67	16.69	0.550+j4.345	1.237+j4.216
TALLERES Y ACEROS S.A. (TYASA)	TYS-400	400.0	11.72	12.19	3.357+j19.413	1.660+j17.504	17.90	16.66	1.987+j14.049	1.657+j17.324
TALLERES Y ACEROS S.A. (TYASA)	TYS-115	115.0	11.73	8.47	0.601+j5.627	0.086+j12.225	13.72	9.67	0.473+j5.301	0.085+j12.036
TAMARINDO DOS	TDD-115	115.0	5.46	4.06	2.179+j11.965	4.511+j24.340	6.17	4.53	2.029+j11.671	4.506+j24.263
TAMAZULAPAN DOS	TAD-115	115.0	1.70	1.04	11.321+j37.306	29.772+j110.084	1.88	1.14	11.149+j37.130	29.761+j109.940
TAMSA DOS	TSD-230	230.0	12.09	10.81	2.009+j10.801	3.037+j14.593	16.32	13.44	1.259+j8.862	3.055+j14.359
TAMSA DOS	TSD-230B	230.0	12.09	10.81	2.009+j10.801	3.037+j14.593	16.32	13.44	1.259+j8.862	3.055+j14.359
TAMULTE	TAT-115	115.0	14.32	12.21	0.761+j4.573	1.665+j7.111	16.98	13.99	0.657+j4.251	1.662+j7.073
TAMULTE MANIOBRAS	TMM-115	115.0	13.55	11.36	0.744+j4.842	1.572+j7.879	15.93	12.96	0.652+j4.537	1.569+j7.836
TAPACHULA	TCH-115	115.0	4.21	3.28	4.318+j15.172	5.385+j28.702	5.25	4.15	3.261+j13.516	4.445+j24.562
TAPACHULA AEROPUERTO	TAE-115	115.0	5.87	5.37	3.029+j10.893	1.918+j14.465	7.47	6.75	2.168+j9.533	1.790+j12.789
TAPACHULA NORTE	TNE-115	115.0	4.32	3.48	4.197+j14.768	4.861+j26.241	5.48	4.58	3.061+j12.960	3.445+j20.983
TAPACHULA ORIENTE	TOE-115	115.0	4.42	3.48	3.973+j14.480	4.781+j26.817	5.49	4.31	2.995+j12.963	4.229+j23.835
TAPACHULA POTENCIA	THP-400	400.0	2.47	2.67	23.346+j90.504	5.867+j73.315	3.28	3.43	15.387+j75.785	6.451+j67.140
TAPACHULA POTENCIA	THP-115	115.0	6.61	6.81	2.491+j9.732	0.569+j9.285	8.45	8.52	1.720+j8.469	0.630+j8.447
TAPANATEPEC	TNP-115	115.0	2.30	1.77	8.031+j27.705	11.399+j53.982	2.66	1.99	7.400+j26.436	11.393+j53.851
TAPIJULAPA	TPJ-115	115.0	1.86	1.28	9.480+j34.416	33.628+j77.642	2.07	1.42	9.295+j34.010	33.613+j77.546
TAXCO	TXO-115	115.0	2.36	2.01	6.877+j27.281	7.424+j42.200	2.90	2.36	5.021+j24.711	7.412+j41.787
TEAPA, TABASCO.	TTB-115	115.0	3.38	2.39	5.067+j18.995	17.156+j40.809	3.80	2.66	4.890+j18.583	17.141+j40.714
TEAPA, VERACRUZ	TEA-115	115.0	18.99	14.81	0.515+j3.458	1.098+j6.498	23.59	18.65	0.416+j3.068	0.892+j5.574
TECALI	TCL-400	400.0	19.56	19.63	2.197+j11.601	1.560+j11.677	27.44	25.13	1.276+j9.169	1.591+j11.714
TECALI	TCL-230	230.0	15.94	17.45	0.995+j8.270	0.433+j6.184	18.76	20.13	0.707+j7.752	0.433+j6.192
TECALI	TCL-115	115.0	24.32	24.22	0.448+j2.693	0.128+j2.786	28.19	27.36	0.364+j2.565	0.133+j2.840
TECAMACHALCO	TML-115	115.0	7.41	4.81	2.222+j8.676	4.863+j23.026	8.29	5.32	2.126+j8.551	4.867+j23.058
TECAMACHALCO II	TLD-115	115.0	7.08	4.60	2.204+j9.119	5.005+j24.008	7.90	5.09	2.111+j8.995	5.009+j24.047
TECNOLÓGICO	TNL-115	115.0	3.50	3.08	4.014+j18.551	6.208+j26.521	4.53	3.72	2.918+j15.840	6.135+j26.281
TECOMAXTLAHUACA	TCX-115	115.0	0.81	0.46	22.963+j78.995	61.697+j261.381	0.89	0.51	22.843+j78.885	61.696+j261.358



**Niveles de cortocircuito de la Red Nacional de Transmisión
Gerencia de Control Regional Oriental**

Subestación Eléctrica	Acrónimo	Tensión (kV)	Corriente de cortocircuito (kA) e impedancias de Thévenin secuencias positiva y cero (Ω)							
			NCC mínimo 2026				NCC máximo 2026			
			3F	1F	ZTH(+)	ZTH(0)	3F	1F	ZTH(+)	ZTH(0)
TECPAN	TCA-115	115.0	1.28	0.91	15.542+j49.535	32.013+j111.748	2.40	1.76	8.075+j29.324	21.301+j59.847
TEHUACÁN	THN-115	115.0	5.22	3.25	3.737+j12.154	8.184+j34.939	5.84	3.61	3.596+j11.977	8.173+j34.848
TEHUANTEPEC	THT-115	115.0	3.50	2.94	4.546+j18.415	8.558+j29.286	4.44	3.50	3.615+j16.045	8.488+j29.076
TEJALPA	TJA-115	115.0	10.47	9.38	1.080+j6.250	1.243+j8.469	11.84	10.52	0.937+j6.096	1.230+j8.394
TELMAC	TLM-115	115.0	15.51	13.65	0.894+j4.187	1.159+j5.954	17.90	15.56	0.781+j4.006	1.134+j5.823
TEMASCAL DOS	TMD-400	400.0	17.51	19.06	2.465+j12.955	1.250+j10.080	29.41	28.39	1.072+j8.570	1.159+j9.473
TEMASCAL DOS	TMD-230	230.0	14.26	16.39	1.249+j9.226	0.311+j5.740	20.20	22.83	0.610+j7.206	0.277+j4.643
TEMASCAL UNO	TMU-230	230.0	11.62	11.46	1.625+j11.312	1.857+j11.804	16.45	17.57	0.861+j8.837	0.707+j7.026
TEMASCAL UNO	TMU-115	115.0	13.79	7.10	0.668+j4.768	3.536+j18.138	20.36	18.25	0.349+j3.570	0.308+j4.689
TEMAXCALAC	TXB-115	115.0	19.23	15.15	0.564+j3.406	1.252+j6.133	21.81	16.97	0.500+j3.312	1.253+j6.099
TEMIXCO	TMX-85	85.0	5.98	4.67	1.356+j8.091	1.802+j15.015	6.85	5.28	1.216+j7.787	1.800+j14.780
TENOSIQUE	TNQ-115	115.0	1.50	0.69	12.428+j42.427	83.970+j181.014	1.72	0.77	11.637+j40.943	83.945+j180.871
TEPALCINGO	TPL-115	115.0	4.43	2.78	3.203+j14.644	8.286+j40.886	4.90	3.07	3.125+j14.560	8.285+j40.855
TEPEACA	TPE-115	115.0	7.33	4.98	1.463+j8.937	4.815+j21.383	8.19	5.51	1.379+j8.811	4.820+j21.437
TEPEJI	TPI-115	115.0	3.77	2.30	4.720+j16.957	11.169+j50.220	4.18	2.54	4.620+j16.836	11.173+j50.242
TEPEYAC, VERACRUZ	TPY-115	115.0	9.16	6.96	1.103+j7.163	2.974+j13.822	11.84	8.28	0.888+j6.107	2.974+j13.804
TEREFTALATOS	TRT-115	115.0	6.66	4.21	2.988+j9.506	6.541+j26.674	7.74	4.77	2.832+j8.996	6.508+j26.376
TERNIUM MÉXICO - LARGOS PUEBLA	TRP-230	230.0	6.84	5.08	3.537+j19.093	8.397+j38.805	7.72	5.66	3.212+j18.634	8.385+j38.767
TEZIUTLAN	TZT-115	115.0	7.55	7.04	1.853+j8.593	0.985+j10.730	9.81	9.34	1.346+j7.326	0.952+j8.507
TEZIUTLAN	TZT-69	69.0	3.15	3.26	0.768+j12.625	0.203+j11.425	4.30	4.48	0.514+j10.176	0.379+j8.949
TEZIUTLAN DOS	TZD-115	115.0	6.04	4.05	2.257+j10.767	4.719+j26.837	7.49	4.87	1.785+j9.592	4.691+j24.988
TEZOYUCA	TEZ-115	115.0	10.40	9.01	1.199+j6.269	1.526+j9.222	11.79	10.12	1.061+j6.106	1.502+j9.124
TIERRA BLANCA	TBL-115	115.0	4.24	2.40	3.856+j15.173	11.695+j50.322	4.98	2.93	3.540+j14.240	10.264+j44.283
TIERRA COLORADA	TIE-115	115.0	3.00	2.23	6.629+j21.132	9.537+j44.075	3.76	2.61	4.842+j18.800	9.554+j43.948
TIHUATLAN DOS	THD-115	115.0	8.18	5.64	1.472+j7.980	6.110+j18.211	9.44	6.36	1.364+j7.612	6.094+j18.083
TILAPA	TIL-69	69.0	0.98	0.80	14.908+j37.814	24.579+j64.500	1.07	0.87	14.879+j38.053	24.580+j64.817
TIXTLA	TIT-115	115.0	4.31	4.40	4.276+j14.813	2.834+j14.162	5.85	5.60	2.439+j12.236	2.831+j13.882
TLACOACHISTLAHUACA	THU-115	115.0	1.18	0.68	19.223+j52.637	46.905+j174.974	1.32	0.75	18.353+j52.041	46.745+j174.536
TLACOLULA	TLL-115	115.0	2.40	1.63	7.417+j26.662	15.071+j65.206	2.68	1.81	7.174+j26.329	15.040+j64.852
TLACOTALPAN	TTA-115	115.0	2.41	1.40	8.344+j26.199	25.392+j83.338	2.78	1.71	7.673+j25.082	21.747+j72.746
TLACOTEPEC	TTP-115	115.0	2.13	1.46	14.995+j27.301	16.720+j73.320	2.36	1.61	14.900+j27.181	16.723+j73.352
TLACOTEPEC	TCE-115	115.0	1.34	0.87	14.525+j47.355	34.005+j125.853	1.57	0.98	12.656+j44.888	33.975+j125.131
TLALTIZAPAN	TLZ-85	85.0	3.69	2.40	2.230+j13.124	5.550+j34.329	4.15	2.68	2.084+j12.827	5.548+j34.092
TLAPA NUEVA	TAN-115	115.0	1.43	0.94	14.122+j44.071	27.355+j116.917	1.68	1.06	12.094+j41.693	27.348+j116.621
TLAPACOYAN	TLY-115	115.0	4.74	5.79	3.331+j13.615	0.577+j6.392	5.75	7.05	2.785+j12.392	0.469+j5.660
TLATLAUQUITEPEC	TUQ-115	115.0	1.84	1.28	10.667+j34.487	19.155+j81.757	2.20	1.46	8.685+j32.050	19.149+j81.465
TLAXIACO	TXI-115	115.0	1.04	0.63	19.021+j61.217	48.173+j182.650	1.14	0.69	18.829+j61.026	48.159+j182.457
TONALÁ	TNA-115	115.0	1.67	1.46	11.277+j38.077	16.921+j54.433	1.91	1.65	10.507+j36.720	16.907+j54.197
TONANTZINTLA	TNZ-115	115.0	15.22	8.88	0.891+j4.272	3.342+j13.316	17.36	9.96	0.803+j4.131	3.326+j13.194
TRANSISTMICA (MANIOBRAS SEDENA)	TST-115	115.0	4.29	4.16	3.480+j15.085	4.938+j16.994	5.54	5.06	2.680+j12.918	4.865+j16.810



Niveles de cortocircuito de la Red Nacional de Transmisión
Gerencia de Control Regional Oriental

Subestación Eléctrica	Acrónimo	Tensión (kV)	Corriente de cortocircuito (kA) e impedancias de Thévenin secuencias positiva y cero (Ω)							
			NCC mínimo 2026				NCC máximo 2026			
			3F	1F	ZTH(+)	ZTH(0)	3F	1F	ZTH(+)	ZTH(0)
TRES ESTRELLAS	TTE-400	400.0	19.57	19.30	0.858+j11.769	0.864+j11.896	30.48	31.68	0.361+j8.327	0.332+j6.876
TRES VALLES	TVS-115	115.0	8.04	5.81	1.629+j8.094	3.262+j17.517	10.32	8.42	1.255+j6.967	1.824+j11.873
TROY	TOY-115	115.0	7.36	4.54	1.543+j8.886	4.992+j25.464	8.95	7.80	1.350+j8.044	1.049+j11.826
TULIPÁN	TLN-115	115.0	6.96	5.99	2.276+j9.270	4.521+j13.564	7.95	6.76	2.165+j8.930	4.471+j13.405
TUXPAN DOS	TUD-115	115.0	3.52	2.81	4.644+j18.292	10.620+j31.384	3.95	3.13	4.528+j17.939	10.594+j31.213
TUXPAN VAPOR	TUV-400	400.0	16.92	18.55	1.027+j13.606	0.605+j10.026	29.40	34.86	0.344+j8.635	0.121+j4.449
TUXPANGO	TPG-115	115.0	9.87	7.85	1.346+j6.594	2.207+j11.717	12.45	10.05	1.007+j5.780	1.664+j9.931
TUXTEPEC DOS	TXD-115	115.0	5.98	4.16	2.065+j10.912	4.513+j25.433	6.94	4.75	1.891+j10.353	4.488+j24.834
TUXTEPEC TRES	TPS-115	115.0	8.19	5.81	1.459+j7.971	3.666+j17.800	9.85	6.86	1.256+j7.311	3.636+j16.802
TUXTLA GUTIÉRREZ	TGU-115	115.0	10.55	8.03	1.314+j6.156	2.233+j12.040	13.14	9.50	1.028+j5.462	2.214+j11.729
TUXTLA GUTIÉRREZ DOS	TGD-115	115.0	9.24	6.61	1.634+j7.000	3.097+j15.489	11.37	7.75	1.327+j6.286	3.058+j15.086
TUXTLA NORTE	TXN-115	115.0	10.63	8.03	1.286+j6.114	2.214+j12.124	13.26	9.52	0.995+j5.417	2.190+j11.784
TUXTLA ORIENTE	TXO-115	115.0	7.30	4.93	2.150+j8.834	4.470+j21.770	8.80	5.72	1.824+j8.092	4.411+j21.272
TUXTLA SUR	TXS-115	115.0	12.44	10.21	0.919+j5.258	1.362+j8.747	15.86	12.34	0.647+j4.558	1.343+j8.427
UNILIVER	UNL-115	115.0	3.94	4.63	3.632+j16.457	1.415+j9.249	4.38	5.14	3.489+j16.304	1.402+j9.175
UNIÓN CARBIDE TEAPA	UCT-115	115.0	13.55	9.32	0.911+j4.813	2.224+j11.498	16.24	11.14	0.811+j4.424	2.017+j10.573
UXPANAPA DOS	UXD-115	115.0	6.01	3.85	2.562+j10.749	6.307+j29.078	6.86	4.31	2.457+j10.353	6.295+j28.896
UXPANAPA III	UXT-115	115.0	1.61	0.94	11.532+j39.485	30.294+j125.955	1.80	1.04	11.298+j38.867	30.224+j125.603
UXPANAPA UNO	UXU-115	115.0	3.14	1.84	5.279+j20.473	14.535+j64.244	3.52	2.05	5.174+j20.076	14.524+j64.062
VALLE NACIONAL	VAN-115	115.0	3.12	2.00	4.678+j20.791	11.822+j55.793	3.51	2.23	4.496+j20.339	11.791+j55.347
VALSEQUILLO	VSE-115	115.0	7.88	4.79	1.545+j8.283	5.358+j24.185	8.82	5.31	1.458+j8.150	5.361+j24.172
VEGA DE ALATORRE	VDA-115	115.0	1.38	0.97	15.999+j45.514	31.169+j103.803	1.55	1.09	15.550+j44.544	30.772+j102.110
VENTA	VEN-69	69.0	2.44	2.88	6.085+j15.136	10.107+j4.805	3.97	4.76	2.794+j10.688	2.597+j5.041
VERACRUZ DOS	VRD-230	230.0	14.25	16.03	1.710+j9.162	0.762+j6.197	21.61	22.97	0.832+j6.707	0.696+j5.469
VERACRUZ DOS	VRD-115	115.0	22.01	26.46	0.537+j2.968	0.163+j1.497	31.84	36.66	0.283+j2.276	0.155+j1.372
VERACRUZ UNO	VRU-115	115.0	17.38	13.54	0.766+j3.743	1.231+j6.974	24.02	17.11	0.489+j3.001	1.146+j6.618
VETROTEX	VET-115	115.0	14.41	12.44	0.943+j4.509	1.159+j6.737	16.58	14.15	0.828+j4.327	1.129+j6.585
VIDRIERA DE TIERRA BLANCA	VTB-115	115.0	5.50	3.12	2.213+j11.856	9.357+j38.547	6.61	3.85	1.871+j10.896	8.236+j33.760
VILLA FLORES DOS	VFD-115	115.0	1.56	0.91	12.361+j40.779	36.100+j127.490	1.74	1.01	12.037+j40.171	36.090+j127.265
VILLAHERMOSA CENTRO	VHC-115	115.0	12.90	9.38	1.024+j5.046	2.417+j10.902	15.21	10.66	0.912+j4.716	2.413+j10.860
VILLAHERMOSA DOS	VID-115	115.0	14.02	11.90	0.807+j4.668	1.318+j7.281	16.89	13.76	0.656+j4.273	1.314+j7.235
VILLAHERMOSA NORTE	VHN-230	230.0	10.34	10.20	1.928+j12.698	1.830+j13.659	13.17	12.29	1.375+j11.005	1.847+j13.580
VILLAHERMOSA NORTE	VHN-115	115.0	16.53	18.33	0.636+j3.966	0.277+j2.971	20.10	21.62	0.497+j3.599	0.275+j2.951
VILLAHERMOSA PONIENTE	VIP-115	115.0	13.22	10.89	0.904+j4.940	1.991+j8.226	15.66	12.45	0.785+j4.598	1.989+j8.194
VILLAHERMOSA UNO	VIU-115	115.0	10.00	7.62	1.142+j6.537	2.497+j12.769	11.70	8.64	0.995+j6.162	2.495+j12.738
VISTAMAR	VIS-115	115.0	10.73	7.87	1.492+j6.005	2.530+j12.840	12.75	9.19	1.379+j5.558	2.519+j12.221
VOLKSWAGEN	VWG-115	115.0	41.18	37.53	0.295+j1.585	0.255+j2.091	50.60	45.71	0.214+j1.428	0.233+j1.916
XALAPA DE DÍAZ	JDD-230	230.0	5.41	4.20	3.509+j24.280	12.226+j44.306	6.49	4.88	2.801+j22.315	12.208+j43.344
XICOTENCATL	XIT-115	115.0	17.30	16.32	0.742+j3.767	0.653+j4.515	20.07	18.76	0.628+j3.585	0.623+j4.367
XICOTEPEC	XIP-85	85.0	6.81	1.31	1.492+j7.047	20.383+j95.535	9.96	8.94	0.983+j5.328	1.548+j7.027



**Niveles de cortocircuito de la Red Nacional de Transmisión
Gerencia de Control Regional Oriental**

Subestación Eléctrica	Acrónimo	Tensión (kV)	Corriente de cortocircuito (kA) e impedancias de Thévenin secuencias positiva y cero (Ω)							
			NCC mínimo 2026				NCC máximo 2026			
			3F	1F	ZTH(+)	ZTH(0)	3F	1F	ZTH(+)	ZTH(0)
XOCHICALCO	XCH-85	85.0	2.91	1.41	3.077+j16.596	13.200+j69.156	3.26	1.57	2.927+j16.303	13.198+j68.918
XOXTLA-CORONANGO	XCR-115	115.0	16.75	10.68	0.735+j3.894	2.458+j10.458	19.22	12.06	0.650+j3.744	2.438+j10.305
YAUTEPEC POTENCIA	YTP-400	400.0	23.58	23.44	1.825+j9.622	1.343+j9.915	30.10	28.38	1.112+j8.365	1.346+j9.882
YAUTEPEC POTENCIA	YTP-230	230.0	18.92	21.47	1.113+j6.931	0.356+j4.523	22.64	25.11	0.734+j6.409	0.356+j4.534
YAUTEPEC POTENCIA	YTP-115	115.0	19.49	19.97	0.368+j3.386	0.161+j3.167	22.08	22.46	0.292+j3.295	0.160+j3.139
YECAPIXTLA	YCP-230	230.0	10.58	9.33	1.815+j12.418	2.607+j17.409	12.15	10.55	1.458+j11.936	2.573+j17.306
YOLOMECATL	YOL-115	115.0	1.43	0.88	13.748+j44.451	35.813+j128.856	1.58	0.97	13.560+j44.255	35.800+j128.665
YUCUDAA	YUC-115	115.0	1.75	1.09	11.218+j36.273	29.613+j101.998	1.94	1.21	11.032+j36.074	29.601+j101.809
ZACAPOAXTLA	ZXP-115	115.0	2.62	1.98	5.962+j24.590	17.203+j47.142	3.00	2.24	5.642+j23.647	17.288+j46.257
ZACATEPEC	ZTP-115	115.0	2.02	1.24	7.842+j31.870	21.982+j92.471	2.25	1.37	7.635+j31.488	22.010+j92.259
ZANATEPEC	ZNT-115	115.0	2.46	1.69	7.305+j26.009	14.226+j62.335	2.85	1.91	6.744+j24.689	14.222+j62.274
ZAPATA	ZAP-230	230.0	14.60	14.55	1.876+j8.898	1.380+j9.114	18.02	17.29	1.251+j8.008	1.368+j9.023
ZAPATA	ZAP-115	115.0	15.40	17.42	0.636+j4.265	0.171+j2.817	17.66	19.86	0.495+j4.105	0.164+j2.760
ZAPATA	ZAP-85	85.0	7.62	7.55	0.838+j6.383	0.189+j6.659	8.83	8.69	0.702+j6.075	0.187+j6.424
ZAPATA DOS	ZPD-115	115.0	5.26	1.46	2.153+j12.433	45.840+j101.865	6.69	1.65	1.476+j10.817	45.818+j101.727
ZAPATA ORIENTE	ZPO-115	115.0	3.92	1.94	3.668+j16.552	27.481+j63.691	4.65	2.19	3.183+j15.372	27.462+j63.558
ZAPATA PONIENTE	EZA-115	115.0	2.29	0.93	7.280+j28.046	65.436+j142.682	2.68	1.04	6.533+j26.506	65.412+j142.541
ZIHUATANEJO	ZIH-115	115.0	3.76	2.78	2.775+j17.417	7.580+j35.578	5.39	3.72	2.483+j13.332	7.321+j30.975
ZIHUATANEJO DOS	ZHD-115	115.0	3.81	2.81	2.744+j17.211	7.152+j35.233	5.70	3.98	2.376+j12.602	6.717+j28.626
ZINACATEPEC	ZIP-115	115.0	2.80	1.64	6.980+j22.640	18.235+j71.597	3.11	1.82	6.834+j22.458	18.227+j71.513
ZINACATEPEC	ZIP-69	69.0	1.78	2.04	3.010+j22.124	0.000+j14.167	1.94	2.21	2.972+j22.369	0.000+j14.482
ZOCAC	ZOC-230	230.0	12.93	12.61	2.052+j10.066	2.204+j10.901	15.86	14.98	1.572+j9.078	2.123+j10.602
ZOCAC	ZOC-115	115.0	18.00	17.60	0.711+j3.620	0.524+j3.941	20.94	20.32	0.597+j3.437	0.494+j3.789
ZONGOLICA	ZGL-115	115.0	4.15	2.40	2.765+j15.759	12.560+j49.424	5.49	4.92	1.927+j13.160	2.558+j17.723

Gerencia de Control Regional Occidental



[Regresar a mapa del SEN](#)



Subestación Eléctrica	Acrónimo	Tensión (kV)	Corriente de cortocircuito (kA) e impedancias de Thévenin secuencias positiva y cero (Ω)							
			NCC mínimo 2026				NCC máximo 2026			
			3F	1F	ZTH(+)	ZTH(0)	3F	1F	ZTH(+)	ZTH(0)
3M	P3M-115	115.0	18.27	16.99	0.787+j3.547	0.867+j4.374	20.91	19.22	0.702+j3.421	0.864+j4.332
ABASOLO	ABS-115	115.0	10.32	9.68	1.536+j6.245	1.684+j7.526	11.73	10.99	1.399+j6.068	1.637+j7.297
ABASOLO DOS	ABA-230	230.0	6.61	5.79	3.912+j19.710	4.075+j28.322	7.60	6.60	3.378+j18.930	3.900+j27.704
ABASOLO DOS	ABA-115	115.0	11.64	11.89	1.284+j5.559	0.674+j5.321	13.28	13.60	1.147+j5.379	0.623+j5.083
ABASTOS	ABT-115	115.0	8.40	6.88	2.042+j7.636	3.030+j12.803	9.38	7.65	1.942+j7.543	3.018+j12.719
ACÁMBARO	AQM-110	115.0	5.60	3.39	3.121+j11.440	9.947+j33.657	6.34	3.77	2.897+j11.157	9.948+j33.633
ACAPONETA	ACP-115	115.0	1.23	0.83	19.432+j50.191	52.894+j122.435	1.39	0.92	18.815+j49.157	52.809+j121.817
ACATLÁN	ATN-400	400.0	14.91	15.87	3.663+j15.050	1.681+j12.593	22.90	22.02	1.532+j10.989	1.717+j12.298
ACATLÁN	ATN-230	230.0	18.16	21.25	1.702+j7.111	0.412+j4.124	24.97	27.76	0.893+j5.781	0.414+j4.070
ACATLÁN	ATN-115	115.0	12.44	15.00	0.665+j5.296	0.104+j2.608	14.57	17.31	0.441+j4.994	0.104+j2.634
ACATLÁN	ATN-69	69.0	23.92	26.78	0.258+j1.646	0.059+j1.134	28.27	31.18	0.181+j1.539	0.058+j1.117
ACERLAN SA	ACR-115	115.0	14.23	13.88	1.009+j4.556	0.855+j4.952	15.92	15.47	0.964+j4.485	0.853+j4.920
ACERLAN SA	ACR-69	69.0	12.17	10.50	0.825+j3.167	1.044+j4.727	14.02	11.93	0.733+j3.039	1.040+j4.651
ACERO SAN LUIS	ACE-115	115.0	17.10	15.51	0.944+j3.766	1.169+j4.942	19.53	17.51	0.858+j3.639	1.165+j4.899
ACUEDUCTO	ACU-69	69.0	13.56	7.76	0.737+j2.843	2.175+j9.266	15.59	8.73	0.649+j2.734	2.155+j9.183
ACUEDUCTO II	AUD-115	115.0	2.98	2.56	3.758+j21.984	5.528+j32.797	3.69	3.12	2.825+j19.565	5.023+j30.179
AEROESPACIAL	ARL-115	115.0	17.86	12.58	0.725+j3.646	1.686+j8.224	19.90	13.94	0.687+j3.606	1.686+j8.204
AEROPUERTO	AER-115	115.0	5.43	4.00	3.206+j11.803	7.876+j24.143	6.00	4.41	3.147+j11.764	7.874+j24.093
AEROPUERTO ZACATECAS	AEZ-115	115.0	6.48	5.55	2.528+j9.930	3.173+j15.072	7.45	6.28	2.245+j9.539	3.163+j14.988
AEROTECH	AET-115	115.0	18.76	13.60	0.667+j3.476	1.465+j7.419	20.91	15.08	0.630+j3.436	1.466+j7.399
AGAVE	AVE-115	115.0	2.84	2.37	7.449+j22.145	13.327+j34.777	3.15	2.63	7.274+j21.989	13.288+j34.608
AGOSTADERITO	AGO-115	115.0	13.49	10.52	0.963+j4.828	1.182+j9.019	15.61	11.90	0.818+j4.606	1.177+j8.988
AGROGEN, S.A. DE C.V.	AGR-115	115.0	11.35	7.82	1.289+j5.706	2.334+j13.576	12.63	8.66	1.242+j5.648	2.319+j13.537
AGROINDUSTRIAL	AIL-115	115.0	6.48	4.01	2.808+j9.852	9.261+j27.678	7.27	4.46	2.681+j9.689	9.244+j27.552
AGUA AZUL	AGZ-230	230.0	9.95	8.43	2.823+j13.047	4.809+j19.973	12.18	9.90	2.005+j11.828	4.759+j19.748
AGUAMILPA	AGM-400	400.0	6.36	5.58	6.859+j35.667	9.337+j50.572	15.46	17.50	1.147+j16.393	0.664+j10.648
AGUAMILPA	AGM-115	115.0	2.32	1.70	7.262+j27.657	23.245+j55.529	2.98	2.56	5.468+j23.931	10.115+j35.023
AGUAPRIETA	APR-230	230.0	9.99	8.85	2.841+j12.983	3.403+j18.108	14.23	13.38	1.496+j10.155	1.719+j12.089
AGUASCALIENTES NORTE	AGN-115	115.0	17.87	12.93	0.836+j3.620	0.662+j7.992	20.89	14.64	0.696+j3.426	0.660+j7.986
AGUASCALIENTES ORIENTE	AGS-230	230.0	17.27	18.16	1.649+j7.511	1.175+j6.465	21.84	22.00	1.107+j6.597	1.175+j6.457
AGUASCALIENTES ORIENTE	AGS-115	115.0	22.88	24.75	0.591+j2.841	0.210+j2.244	27.17	28.74	0.454+j2.649	0.210+j2.254
AGUASCALIENTES PONIENTE	AGP-115	115.0	13.20	10.33	0.977+j4.934	0.820+j9.223	15.22	11.66	0.834+j4.724	0.811+j9.192
AGUASCALIENTES POTENCIA	APT-400	400.0	16.44	18.15	3.101+j13.704	1.377+j10.028	22.05	23.03	1.712+j11.394	1.379+j10.001
AGUASCALIENTES POTENCIA	APT-230	230.0	19.46	22.28	1.457+j6.667	0.513+j4.219	24.86	27.45	0.934+j5.800	0.510+j4.205
AGUASCALIENTES POTENCIA	APT-115	115.0	22.03	22.91	0.542+j2.965	0.210+j2.670	26.61	26.99	0.394+j2.716	0.208+j2.629
AGUASCALIENTES SUR	ASS-115	115.0	13.50	9.98	0.994+j4.815	1.657+j10.003	15.64	11.26	0.847+j4.593	1.656+j9.986
AGUASCALIENTES UNO	AGT-230	230.0	12.89	11.57	2.070+j10.094	2.740+j13.539	15.65	13.53	1.527+j9.209	2.712+j13.469
AGUASCALIENTES UNO	AGT-115	115.0	16.59	15.62	0.729+j3.935	0.548+j4.724	19.27	17.84	0.591+j3.743	0.531+j4.682
AGYDSA	AGY-69	69.0	21.06	17.51	0.473+j1.831	0.508+j3.006	24.87	20.42	0.384+j1.719	0.475+j2.878
AHRESTY	ART-115	115.0	7.06	6.39	2.613+j9.034	3.132+j11.945	8.17	7.28	2.325+j8.629	3.111+j11.829



Subestación Eléctrica	Acrónimo	Tensión (kV)	Corriente de cortocircuito (kA) e impedancias de Thévenin secuencias positiva y cero (Ω)							
			NCC mínimo 2026				NCC máximo 2026			
			3F	1F	ZTH(+)	ZTH(0)	3F	1F	ZTH(+)	ZTH(0)
AHUACATLÁN	AHN-110	115.0	1.26	1.10	13.452+j50.735	21.840+j72.154	1.39	1.22	13.474+j50.771	21.747+j71.473
ALAMEDA	ALA-69	69.0	9.30	7.48	1.089+j4.141	1.965+j7.159	10.71	8.48	0.975+j3.972	1.947+j7.065
ALAMOS	ALS-230	230.0	10.08	8.56	2.800+j12.868	4.219+j19.748	12.38	10.06	1.977+j11.636	4.158+j19.518
ALAMOS	ALS-69	69.0	10.93	12.27	0.697+j3.576	0.166+j2.462	12.67	14.27	0.597+j3.408	0.153+j2.296
ALFA NISSAN	ALF-115	115.0	13.60	11.94	0.938+j4.792	0.966+j6.862	15.81	13.59	0.789+j4.551	0.964+j6.822
ALFA NISSAN MANIOBRAS	AIS-115	115.0	15.55	14.88	0.824+j4.190	0.525+j4.828	18.23	17.09	0.674+j3.949	0.522+j4.788
ALKANOVA	ALK-69	69.0	6.26	4.70	1.306+j6.232	2.529+j12.449	7.09	5.28	1.205+j6.065	2.516+j12.283
ALMERIA	ALM-69	69.0	3.30	2.58	4.936+j11.026	6.516+j21.356	3.72	2.88	4.717+j10.799	6.463+j21.213
ALUPRINT	ALU-115	115.0	20.23	20.74	0.746+j3.196	0.483+j3.011	23.27	23.62	0.660+j3.069	0.479+j2.968
ALZA	ALZ-115	115.0	6.18	5.65	3.608+j10.121	3.969+j13.207	7.13	6.42	3.306+j9.700	3.948+j13.080
ALZADA	AZA-115	115.0	3.34	2.35	5.765+j19.022	12.262+j43.192	3.88	2.83	5.287+j18.072	10.495+j38.306
AMATITÁN	AMT-69	69.0	2.63	1.75	5.778+j13.977	9.428+j36.922	4.03	3.22	3.574+j10.272	5.654+j18.207
AMECA	AMK-115	115.0	2.21	1.42	6.657+j29.338	20.697+j77.800	2.49	1.58	6.158+j28.643	20.698+j77.826
AMERI AXLE& MANUF DE MEX S.A. DE C.V.	AXL-115	115.0	7.11	6.41	2.486+j9.000	4.600+j11.579	7.99	7.15	2.359+j8.836	4.594+j11.523
AMISTAD BAJÍO	AMB-115	115.0	18.36	9.77	0.642+j3.558	3.081+j12.807	20.74	10.87	0.569+j3.476	3.076+j12.756
ANDARES	ADS-69	69.0	14.04	9.08	0.698+j2.749	1.546+j7.328	16.17	10.26	0.610+j2.640	1.522+j7.229
ANGAMACUTIRO DOS	ARD-115	115.0	3.20	2.12	7.214+j19.445	16.682+j49.561	3.70	2.72	6.638+j18.614	11.752+j39.327
ANTEA	NTA-115	115.0	15.93	14.00	1.229+j3.982	0.399+j5.972	17.96	15.61	1.168+j3.896	0.400+j5.973
ANTÚNEZ	ANN-115	115.0	3.00	2.37	6.622+j21.086	8.034+j39.141	4.02	2.98	4.355+j17.634	7.601+j36.528
ANTÚNEZ	ANN-69	69.0	3.13	2.51	3.279+j12.289	3.365+j21.917	4.50	1.99	2.134+j9.500	12.406+j44.861
APA	APA-115	115.0	17.41	17.16	0.676+j3.753	0.566+j3.948	19.81	19.39	0.599+j3.638	0.557+j3.890
APASCO	APP-115	115.0	5.64	4.12	3.358+j11.291	8.840+j23.204	6.56	4.66	3.107+j10.691	8.837+j23.109
APASEO	APS-110	115.0	18.45	14.98	0.684+j3.534	1.256+j5.970	20.83	16.78	0.612+j3.453	1.249+j5.912
APASEO ORIENTE	APO-115	115.0	10.09	6.94	2.223+j6.194	4.634+j14.825	11.21	7.67	2.175+j6.144	4.634+j14.834
APATZINGÁN	APZ-161	161.0	2.69	2.40	8.882+j33.356	6.117+j47.191	3.71	3.33	5.539+j26.963	4.709+j36.878
APATZINGÁN	APZ-115	115.0	3.95	3.77	4.916+j16.094	2.350+j19.288	5.50	5.33	2.941+j12.940	1.705+j14.536
ARANCIA	ARN-115	115.0	15.81	15.57	0.752+j4.131	0.622+j4.355	17.72	17.37	0.707+j4.062	0.619+j4.322
ARANDAS	ARS-115	115.0	2.82	2.31	7.560+j22.331	13.811+j36.600	3.12	2.56	7.386+j22.176	13.773+j36.435
ARBOLEDAS	ABL-115	115.0	7.55	6.00	2.275+j8.494	4.316+j15.014	8.55	6.72	2.099+j8.277	4.300+j14.932
ARELLANO	ARE-115	115.0	12.56	9.42	1.059+j5.178	1.660+j10.445	14.50	10.63	0.911+j4.952	1.658+j10.423
ARIO DE ROSALES	ADR-69	69.0	1.49	0.78	10.694+j24.444	28.389+j96.558	2.25	1.40	6.687+j18.298	15.088+j52.766
ARMERÍA	AIA-115	115.0	5.23	3.60	2.999+j12.344	9.693+j28.448	6.06	4.06	2.757+j11.728	9.690+j28.352
ARRAYANAL	AYL-115	115.0	6.09	4.41	2.645+j10.584	7.287+j22.233	7.13	5.01	2.412+j9.955	7.284+j22.141
ARTEVA SPECIAL TES S.R.L. C.V.	ATV-115	115.0	15.94	14.38	0.952+j4.054	1.056+j5.422	17.91	16.01	0.898+j3.977	1.056+j5.426
ASMOLES	ASM-115	115.0	5.76	4.50	3.295+j11.046	7.937+j19.689	6.71	5.12	3.039+j10.447	7.931+j19.569
ASUNCIÓN	ASU-115	115.0	17.59	14.42	0.769+j3.695	0.949+j6.196	20.49	16.37	0.633+j3.507	0.949+j6.202
ATEQUIZA	ATQ-400	400.0	15.97	16.81	3.166+j14.109	1.717+j12.184	22.86	22.17	1.449+j11.016	1.730+j12.023
ATEQUIZA	ATQ-230	230.0	17.65	20.23	1.756+j7.315	0.490+j4.652	23.03	25.35	1.046+j6.255	0.483+j4.582
ATEQUIZA	ATQ-69	69.0	17.95	22.98	0.507+j2.161	0.033+j0.772	21.13	27.18	0.416+j2.031	0.029+j0.696
ATOTONILCO	ATO-115	115.0	5.14	6.40	3.812+j12.355	0.653+j5.266	5.74	7.19	3.641+j12.188	0.608+j5.074



Subestación Eléctrica	Acrónimo	Tensión (kV)	Corriente de cortocircuito (kA) e impedancias de Thévenin secuencias positiva y cero (Ω)							
			NCC mínimo 2026				NCC máximo 2026			
			3F	1F	ZTH(+)	ZTH(0)	3F	1F	ZTH(+)	ZTH(0)
AUTLÁN	AUT-115	115.0	1.22	0.82	16.648+j51.997	34.451+j128.360	1.35	0.91	16.373+j51.415	34.437+j128.239
AVENTEC	AVN-115	115.0	18.09	16.73	0.798+j3.582	0.887+j4.484	20.70	18.92	0.713+j3.456	0.884+j4.442
AYALA	AYA-115	115.0	12.06	8.57	1.203+j5.375	2.713+j11.931	13.64	9.58	1.081+j5.243	2.705+j11.874
AYOTLAN	AYN-115	115.0	3.74	3.15	5.286+j16.929	8.590+j26.415	4.17	3.50	5.112+j16.762	8.557+j26.268
AYOTLAN NORTE	ANT-115	115.0	3.47	3.26	5.828+j18.218	7.822+j21.538	3.86	3.62	5.655+j18.057	7.780+j21.356
AYUNTAMIENTO	AYU-115	115.0	12.76	9.18	1.038+j5.097	1.842+j11.153	14.74	10.34	0.890+j4.873	1.840+j11.134
AZUFRES SWITCHEO	AZS-115	115.0	11.10	12.70	1.040+j5.892	0.460+j3.696	12.09	13.89	1.037+j5.952	0.465+j3.664
AZUFRES SWITCHEO SUR	ASR-115	115.0	9.78	11.43	1.152+j6.688	0.405+j3.838	10.62	12.52	1.164+j6.778	0.387+j3.738
BANDERAS	BAN-115	115.0	4.20	4.11	4.826+j15.057	5.184+j16.039	5.01	4.77	4.117+j13.993	5.184+j15.990
BARRACUDA	BCD-115	115.0	12.83	9.69	1.079+j5.061	1.917+j10.022	14.50	10.83	0.993+j4.936	1.914+j9.979
BAÑÓN	BON-110	115.0	2.64	1.80	10.159+j22.982	20.319+j56.942	3.03	2.02	9.429+j22.204	20.306+j56.855
BELTICOS S.A. DE C.V.	BEL-69	69.0	8.93	5.80	1.199+j4.295	3.225+j11.243	10.10	6.46	1.117+j4.194	3.219+j11.206
BICENTENARIO	BCT-115	115.0	7.94	7.78	1.844+j8.159	1.709+j8.693	9.47	9.09	1.584+j7.552	1.686+j8.500
BMW	BMW-230	230.0	10.57	8.50	2.478+j12.317	5.145+j21.139	12.43	9.80	2.131+j11.558	5.091+j20.615
BOCAS	BOC-115	115.0	4.58	3.68	3.145+j14.144	8.184+j23.854	5.12	4.09	3.024+j13.942	8.162+j23.757
BOLAÑOS	BLA-110	115.0	0.91	0.57	34.097+j64.895	61.462+j192.698	1.00	0.63	33.946+j64.733	61.444+j192.653
BONLAN	BNL-115	115.0	17.74	15.38	0.824+j3.651	1.085+j5.361	20.28	17.35	0.739+j3.525	1.082+j5.319
BOQUILLA	BOQ-115	115.0	2.32	1.20	8.482+j27.278	30.317+j104.415	2.56	1.32	8.439+j27.230	30.317+j104.397
BOTELLO	BOT-115	115.0	4.13	2.80	4.757+j15.349	11.114+j37.487	4.92	4.29	4.038+j14.270	3.571+j21.227
BUENA VISTA NORTE	BVN-115	115.0	12.08	9.32	1.490+j5.290	2.284+j10.129	13.62	10.39	1.413+j5.172	2.284+j10.119
BUENAVISTA	BNA-115	115.0	13.46	10.41	1.390+j4.734	1.778+j9.111	15.17	11.60	1.319+j4.630	1.778+j9.105
BUGAMBILIAS	BUG-69	69.0	10.88	7.00	0.948+j3.537	2.096+j9.534	12.32	7.79	0.870+j3.450	2.096+j9.530
C. H. SANTA ROSA	SRO-69	69.0	2.78	1.71	5.394+j13.262	10.883+j39.756	5.14	5.85	1.990+j8.291	0.317+j5.494
C.H. LA YESCA	LYE-400	400.0	5.18	3.38	5.927+j44.211	27.654+j112.835	10.47	11.46	1.434+j24.222	0.977+j17.959
CABLESA	CAB-115	115.0	14.24	14.32	1.197+j4.507	0.720+j4.537	16.04	16.00	1.129+j4.412	0.720+j4.539
CALERA	CAL-230	230.0	6.21	7.19	5.586+j20.640	1.520+j12.676	7.34	8.39	4.642+j19.357	1.486+j12.448
CALERA	CAL-115	115.0	10.04	12.77	1.737+j6.384	0.207+j2.387	11.85	15.01	1.458+j5.987	0.196+j2.296
CALERA INDUSTRIAL	CAI-115	115.0	6.94	7.53	2.312+j9.283	1.095+j7.251	8.24	8.87	1.931+j8.653	1.036+j6.922
CALVILLO	CVO-115	115.0	4.13	2.53	3.541+j15.677	7.526+j45.936	4.60	2.80	3.396+j15.498	7.508+j45.892
CAMPESTRE	CPE-115	115.0	8.47	7.36	2.017+j7.579	2.406+j11.120	9.48	8.21	1.899+j7.466	2.389+j11.013
CAPILLA DE GUADALUPE	CIA-115	115.0	2.35	1.39	8.521+j26.904	23.755+j83.906	2.60	1.53	8.365+j26.775	23.736+j83.819
CARAPAN DISTRIBUCIÓN	CRD-115	115.0	9.14	5.83	1.559+j7.099	4.200+j19.165	10.33	6.50	1.431+j6.927	4.195+j19.113
CARAPAN POTENCIA	CRP-400	400.0	10.50	10.15	4.036+j21.618	2.737+j24.068	13.41	12.27	2.393+j18.791	2.796+j24.003
CARAPAN POTENCIA	CRP-230	230.0	13.89	16.39	1.923+j9.368	0.460+j5.166	17.39	19.99	1.234+j8.309	0.463+j5.097
CARAPAN POTENCIA	CRP-115	115.0	15.45	18.06	0.896+j4.204	0.192+j2.436	18.60	21.52	0.677+j3.868	0.189+j2.328
CARTONES PODEROSA S.A. DE	PON-115	115.0	15.68	15.13	0.851+j4.147	0.760+j4.640	17.58	16.88	0.806+j4.076	0.758+j4.608
CASTILLO	CST-69	69.0	16.60	15.39	0.653+j2.309	0.734+j2.875	19.29	17.61	0.570+j2.199	0.733+j2.829
CASTRO DEL RIO	CDR-115	115.0	10.99	7.22	1.319+j5.897	3.295+j15.151	12.49	8.07	1.191+j5.725	3.291+j15.100
CATARINA	CTA-69	69.0	4.42	3.86	3.573+j8.274	2.767+j12.771	5.03	4.35	3.354+j8.047	2.714+j12.628
CAÑADA	KDA-400	400.0	14.89	16.76	3.251+j15.169	1.355+j10.260	19.42	20.90	1.912+j12.940	1.364+j10.280



Subestación Eléctrica	Acrónimo	Tensión (kV)	Corriente de cortocircuito (kA) e impedancias de Thévenin secuencias positiva y cero (Ω)							
			NCC mínimo 2026				NCC máximo 2026			
			3F	1F	ZTH(+)	ZTH(0)	3F	1F	ZTH(+)	ZTH(0)
CAÑADA	KDA-230	230.0	18.03	21.73	1.425+j7.225	0.355+j3.609	22.80	26.67	0.908+j6.342	0.358+j3.621
CAÑADA	KDA-115	115.0	19.08	19.24	0.609+j3.427	0.258+j3.393	22.10	22.03	0.485+j3.269	0.258+j3.380
CD. HIDALGO	CDH-115	115.0	5.65	4.13	3.091+j11.338	8.716+j23.220	6.23	4.55	3.062+j11.309	8.719+j23.194
CELANECE (OCOTLAN)	CME-115	115.0	5.13	3.67	4.215+j12.235	9.082+j26.838	5.96	4.62	3.797+j11.658	6.825+j21.848
CELAYA AEROPUERTO	CAE-110	115.0	13.88	11.63	1.128+j4.650	1.723+j7.365	15.66	13.05	1.041+j4.547	1.705+j7.256
CELAYA DOS	CYA-230	230.0	15.28	13.69	1.832+j8.493	1.773+j11.596	17.86	15.69	1.520+j8.034	1.756+j11.448
CELAYA DOS	CYA-115	115.0	22.06	23.44	0.593+j2.951	0.304+j2.462	25.10	26.59	0.518+j2.863	0.295+j2.405
CELAYA I	CLY-115	115.0	16.33	13.16	0.977+j3.947	1.722+j6.793	18.46	14.75	0.896+j3.855	1.713+j6.721
CELAYA III	CEY-230	230.0	15.98	14.01	1.919+j8.086	2.037+j11.646	19.09	16.32	1.544+j7.495	2.001+j11.370
CELAYA III	CEY-115	115.0	17.61	18.20	0.781+j3.689	0.384+j3.392	20.01	20.71	0.692+j3.583	0.363+j3.268
CELAYA INDUSTRIAL	CYI-110	115.0	17.32	16.97	0.807+j3.747	0.972+j3.951	19.56	19.08	0.734+j3.662	0.967+j3.900
CELAYA PONIENTE	CLP-115	115.0	12.14	9.31	1.353+j5.301	2.826+j10.070	13.63	10.39	1.269+j5.204	2.815+j9.998
CELAYA SUR	CYS-115	115.0	11.86	8.33	1.392+j5.420	3.535+j12.231	13.30	9.27	1.313+j5.331	3.527+j12.168
CEMENTOS MOCTEZUMA (MATEHUALA)	CMZ-115	115.0	1.25	0.83	22.507+j48.077	38.140+j128.202	1.41	0.94	21.485+j47.221	37.226+j125.154
CEMEX MÉXICO S.A. DE C.V. (C.D GUZMÁN)	CMX-115	115.0	3.83	3.07	4.629+j16.728	6.790+j29.426	4.30	3.43	4.386+j16.417	6.735+j29.082
CEMEX MÉXICO S.A. DE C.V. (GUADALAJARA)	CMX-69	69.0	5.88	4.22	1.767+j6.538	3.300+j14.402	6.65	4.73	1.664+j6.374	3.287+j14.235
CEMEX MÉXICO S.A. DE C.V. (HUICHAPAN)	CMX-230	230.0	6.71	4.90	3.524+j19.473	9.090+j40.761	8.04	5.70	2.968+j17.920	9.046+j39.525
CENTRO	CTR-115	115.0	4.25	4.12	4.514+j14.968	4.008+j16.575	5.09	4.80	3.730+j13.842	4.002+j16.496
CENTRO LOGÍSTICO JALISCO	CLJ-230	230.0	11.12	9.17	2.473+j11.681	5.073+j18.923	13.93	10.83	1.663+j10.356	5.072+j18.860
CENTRO LOGÍSTICO JALISCO	CLJ-115	115.0	5.92	5.00	2.492+j10.939	6.050+j16.401	6.71	5.60	2.265+j10.643	6.042+j16.403
CEPAMISA	CMS-115	115.0	7.77	7.01	2.159+j8.265	2.262+j11.103	8.72	7.84	2.024+j8.132	2.241+j10.972
CERRO BLANCO	CBL-400	400.0	8.40	7.75	5.729+j26.891	6.797+j33.630	18.92	18.39	1.147+j13.375	2.517+j14.394
CERRO DEL MERCADO	COM-115	115.0	5.86	5.01	2.690+j11.010	4.531+j16.516	6.86	5.77	2.406+j10.366	4.419+j16.071
CERRO GORDO	GOC-115	115.0	15.48	12.56	1.007+j4.168	1.540+j7.123	17.67	14.16	0.885+j4.037	1.527+j7.051
CERRO HUECO	CHC-69	69.0	0.97	0.53	19.493+j36.271	45.931+j136.305	1.25	0.76	15.708+j31.204	34.195+j96.930
CERVECERÍA MODELO DE GUADALAJARA	MOD-69	69.0	11.55	7.70	0.932+j3.320	2.115+j8.365	13.17	8.64	0.848+j3.217	2.103+j8.302
CH ZIMAPAN	ZMN-230	230.0	4.20	3.75	5.614+j31.115	6.399+j42.487	7.02	7.58	2.460+j20.654	1.118+j16.186
CH ZIMAPAN	ZMN-115	115.0	4.31	5.06	2.140+j15.259	0.716+j8.491	5.68	6.94	1.245+j12.796	0.211+j5.874
CHAMELA	CML-115	115.0	1.45	1.14	12.326+j43.943	32.134+j77.635	1.62	1.26	12.068+j43.322	32.120+j77.515
CHAPALA	CHA-69	69.0	4.67	2.88	2.541+j8.135	6.133+j23.743	5.23	3.19	2.447+j8.013	6.129+j23.667
CHAPALILLA	CPI-115	115.0	1.71	1.70	8.605+j37.764	7.221+j39.369	1.88	1.87	8.624+j37.800	7.132+j38.695
CHAPAROSA	CHA-115	115.0	1.96	1.34	13.568+j30.953	29.817+j75.786	2.23	1.49	12.835+j30.188	29.804+j75.700
CHARAPAN	CHN-115	115.0	4.28	3.01	4.598+j14.819	12.520+j32.811	4.87	3.37	4.262+j14.385	12.512+j32.721
CHARCAS	CAK-110	115.0	5.88	6.58	2.426+j11.025	1.767+j7.477	6.52	7.32	2.373+j10.948	1.751+j7.326
CHARCAS POTENCIA	CHK-230	230.0	3.68	3.97	6.742+j35.462	2.428+j28.291	4.09	4.41	6.501+j35.079	2.368+j27.919
CHARCAS POTENCIA	CHK-115	115.0	6.68	8.14	1.914+j9.755	0.325+j4.596	7.41	9.08	1.861+j9.678	0.309+j4.445
CHILATÁN	CHL-115	115.0	1.72	1.22	12.082+j36.557	22.734+j83.271	2.54	2.35	6.826+j27.987	5.132+j35.511
CHIPILO	CHI-115	115.0	7.65	6.54	2.154+j8.412	3.303+j12.671	8.90	7.46	1.922+j7.977	3.285+j12.549
CICLO COMBINADO TIERRA MOJADA S. DE R.L. DE C.V.	TIM-400	400.0	16.06	17.63	2.948+j14.077	1.097+j10.497	22.50	23.18	1.359+j11.207	1.081+j10.236
CIÉNEGA	CMP-115	115.0	12.19	9.78	0.845+j5.379	1.750+j9.312	15.34	11.60	0.639+j4.719	1.747+j9.208



Subestación Eléctrica	Acrónimo	Tensión (kV)	Corriente de cortocircuito (kA) e impedancias de Thévenin secuencias positiva y cero (Ω)							
			NCC mínimo 2026				NCC máximo 2026			
			3F	1F	ZTH(+)	ZTH(0)	3F	1F	ZTH(+)	ZTH(0)
CIENEGUILLAS	CGS-115	115.0	5.23	4.30	3.331+j12.240	5.622+j20.232	5.97	4.83	3.042+j11.859	5.611+j20.145
CIENEGUILLAS	CGS-115.0	115.0	4.55	5.23	5.195+j13.625	1.153+j9.065	5.54	6.23	4.263+j12.471	1.137+j8.968
CIFUNSA DEL BAJÍO S.A. DE C.V.	CIF-115	115.0	22.76	22.64	0.641+j2.846	0.458+j2.929	27.05	26.41	0.517+j2.650	0.451+j2.863
CIHUATLAN	CHT-115	115.0	3.27	2.80	5.106+j19.648	11.005+j28.489	3.72	3.15	4.863+j19.013	10.995+j28.376
CIMATARIO	CIM-115	115.0	12.49	10.47	1.318+j5.151	0.504+j8.465	13.98	11.63	1.261+j5.070	0.503+j8.461
CIUDAD GUZMÁN	CGM-230	230.0	4.91	4.65	6.291+j26.312	4.391+j31.337	5.75	5.38	5.401+j24.805	4.172+j30.461
CIUDAD GUZMÁN	CGM-115	115.0	6.55	7.48	2.343+j9.862	0.613+j6.383	7.48	8.57	2.103+j9.541	0.558+j6.040
COAHUAYANA	CHY-115	115.0	1.97	1.30	10.242+j32.055	30.014+j81.098	2.21	1.44	9.969+j31.487	30.011+j81.000
COALCOMÁN	CMN-115	115.0	1.27	0.83	19.842+j48.483	48.929+j127.417	1.48	1.08	18.037+j46.094	31.273+j98.769
COBANO	CBN-161	161.0	3.28	2.94	6.346+j27.619	6.646+j37.553	5.25	5.38	3.143+j19.212	2.152+j17.971
COBANO	CBN-69	69.0	2.58	1.34	5.335+j14.480	15.439+j56.477	6.36	7.38	1.233+j6.781	0.250+j4.049
COBRECEL	COB-115	115.0	8.46	7.12	1.717+j7.653	2.980+j11.926	9.45	7.92	1.629+j7.555	2.965+j11.829
COCULA	CLA-115	115.0	4.89	3.91	3.293+j13.158	8.599+j22.352	5.72	4.44	2.802+j12.449	8.600+j22.378
COENEO	CNE-115	115.0	10.52	7.54	1.302+j6.174	2.512+j13.556	11.83	8.40	1.218+j6.052	2.507+j13.508
COLIMA DOS	CMD-230	230.0	7.10	6.98	3.625+j18.347	2.935+j19.451	8.99	8.48	2.748+j16.006	2.862+j19.011
COLIMA DOS	CMD-115	115.0	9.75	11.35	1.368+j6.672	0.388+j3.921	11.85	13.64	1.111+j6.060	0.365+j3.728
COLIMA NORTE	CNO-115	115.0	6.66	6.00	2.360+j9.692	3.092+j12.904	7.83	6.90	2.098+j9.089	3.069+j12.711
COLIMILLA	CLL-69	69.0	10.80	7.28	0.957+j3.564	2.270+j8.749	14.62	13.75	0.627+j2.931	0.465+j3.541
COLINAS	COI-115	115.0	11.34	8.33	1.223+j5.728	2.219+j12.006	12.77	9.29	1.139+j5.605	2.214+j11.957
COLINAS DEL RINCÓN PARQUE INDUSTRIAL	RPI-115	115.0	13.58	10.45	0.946+j4.797	1.860+j9.099	15.40	11.69	0.829+j4.670	1.859+j9.072
COLOMO	COL-230	230.0	11.68	13.30	1.441+j11.275	1.005+j7.147	17.11	18.35	0.720+j8.508	0.995+j6.744
COLOMO	COL-115	115.0	16.59	19.45	0.579+j3.961	0.172+j2.233	22.00	24.97	0.371+j3.299	0.167+j2.130
COLOMO DISTRIBUCIÓN	CDI-115	115.0	16.37	19.08	0.600+j4.012	0.201+j2.321	21.66	24.43	0.391+j3.349	0.195+j2.218
COLON	CLN-230	230.0	12.99	11.65	2.525+j9.909	2.823+j13.446	16.40	13.91	1.726+j8.740	2.814+j13.384
COMPOSTELA	CMP-110	115.0	3.31	2.36	7.366+j18.676	15.260+j41.667	3.87	2.68	6.781+j17.625	15.218+j41.368
CONDEMBARO	CON-115	115.0	2.06	1.59	9.755+j30.749	17.989+j57.725	2.59	2.00	7.419+j27.248	16.434+j50.570
CONDUCTORES MONTERREY	CDM-115	115.0	18.81	17.18	0.792+j3.440	0.755+j4.478	21.56	19.44	0.706+j3.313	0.751+j4.435
CONIN	CNI-230	230.0	16.64	16.02	1.520+j7.834	1.063+j8.850	19.75	18.69	1.267+j7.285	1.051+j8.603
CONIN	CNI-115	115.0	21.14	23.86	0.619+j3.079	0.141+j2.074	23.92	26.80	0.562+j3.001	0.140+j2.073
CORONEO	COO-110	115.0	2.25	1.87	11.537+j27.156	14.095+j45.693	2.48	2.06	11.505+j27.109	14.085+j45.662
CORPORACIÓN DE OCCIDENTE	COC-69	69.0	13.07	11.87	0.772+j2.950	0.849+j3.881	15.10	13.55	0.681+j2.821	0.845+j3.805
CORTÁZAR	CZR-115	115.0	7.29	6.73	2.066+j8.869	2.792+j11.035	8.12	7.48	1.979+j8.773	2.782+j10.954
COTIJA	CTJ-115	115.0	5.15	3.34	3.480+j12.401	8.810+j32.624	5.79	3.71	3.298+j12.179	8.809+j32.590
CRUCERO	CCR-115	115.0	2.10	1.51	10.050+j29.937	15.684+j67.306	2.99	2.58	6.075+j23.675	6.573+j35.392
CRUZ AZUL	CZA-230	230.0	5.80	4.19	4.512+j22.462	12.798+j47.534	6.67	4.72	3.881+j21.557	12.785+j47.481
CRYOINFRA	CRI-115	115.0	9.17	9.45	1.862+j6.994	1.426+j6.460	10.75	11.03	1.685+j6.583	1.420+j6.112
CRYOINFRA	CRY-115	115.0	21.84	23.91	0.751+j2.946	0.418+j2.212	24.74	26.86	0.697+j2.868	0.419+j2.217
CUADRO DE MANIOBRAS ELECTROLUX	PGE-115	115.0	7.88	6.03	2.205+j8.135	4.385+j15.542	8.93	6.76	2.030+j7.922	4.373+j15.473
CUADRO DE MANIOBRAS PESMA	CDM-230	230.0	8.74	5.92	2.200+j15.028	8.951+j35.869	9.79	6.57	2.051+j14.783	8.948+j35.831
CUADRO DE MANIOBRAS VIDANTA	CMV-115	115.0	4.87	5.50	3.733+j13.100	2.066+j8.705	5.89	6.52	3.013+j12.035	2.026+j8.556



Subestación Eléctrica	Acrónimo	Tensión (kV)	Corriente de cortocircuito (kA) e impedancias de Thévenin secuencias positiva y cero (Ω)							
			NCC mínimo 2026				NCC máximo 2026			
			3F	1F	ZTH(+)	ZTH(0)	3F	1F	ZTH(+)	ZTH(0)
CUAUHTÉMOC	SCC-115	115.0	3.54	2.54	5.171+j18.037	11.092+j39.423	4.08	2.95	4.790+j17.256	10.307+j37.159
CUERÁMARO	CUE-110	115.0	7.62	5.21	1.968+j8.487	6.938+j19.693	8.57	5.80	1.840+j8.318	6.921+j19.601
CUITZEO MORELIA	CTZ-115	115.0	5.13	3.48	3.677+j12.418	10.700+j29.472	5.70	3.85	3.571+j12.296	10.694+j29.408
CUITZEO OCOTLAN	CZO-115	115.0	8.33	6.61	2.284+j7.636	3.601+j13.723	9.41	7.42	2.120+j7.467	3.557+j13.538
CUITZILLOS	CZS-115	115.0	6.31	4.81	2.762+j10.150	6.193+j19.400	6.99	5.32	2.688+j10.090	6.189+j19.340
CUMBRES	CUB-115	115.0	17.59	17.81	0.764+j3.696	0.450+j3.617	20.54	20.38	0.625+j3.501	0.450+j3.625
CUMMINS FILTRACIÓN	CSF-115	115.0	13.30	8.63	1.043+j4.881	2.457+j12.871	15.05	9.63	0.959+j4.757	2.453+j12.827
CUPATITZIO	CPT-161	161.0	3.74	3.72	4.862+j24.381	3.274+j25.141	5.98	6.53	2.237+j16.952	1.182+j12.703
CUPRO	CPO-115	115.0	20.27	20.77	0.801+j3.175	0.601+j2.988	23.33	23.65	0.715+j3.048	0.597+j2.945
CUQUIO	CUQ-115	115.0	2.08	1.35	9.082+j30.658	30.273+j78.128	2.30	1.49	8.926+j30.521	30.254+j78.041
DAIDO METAL	DAI-69	69.0	6.21	3.81	1.602+j6.216	4.059+j18.062	6.95	4.22	1.521+j6.122	4.059+j18.051
DAL-TILE MÉXICO S. DE R.L. DE C.V	DLT-115	115.0	17.47	16.48	0.743+j3.728	0.832+j4.409	20.93	19.47	0.605+j3.436	0.825+j4.196
DANISCO MEXICANA	DAM-115	115.0	5.63	4.13	3.412+j11.289	8.950+j23.016	6.55	4.68	3.156+j10.694	8.947+j22.918
DANONE DE MÉXICO S.A. DE C.V.	DNN-115	115.0	10.57	7.49	1.452+j6.112	4.285+j13.396	12.02	8.38	1.329+j5.931	4.279+j13.333
DAÑU	DAN-230	230.0	12.30	10.89	1.799+j10.645	2.502+j14.776	15.94	13.66	1.259+j9.075	2.458+j13.541
DE ACERO MORELIA	DEO-115	115.0	8.69	7.12	1.965+j7.383	3.113+j12.298	9.69	7.91	1.875+j7.302	3.105+j12.225
DE ACERO CELAYA	DEA-230	230.0	13.21	10.59	2.261+j9.793	3.470+j17.180	15.54	12.15	1.880+j9.211	3.435+j16.904
DELCO REMY	DLC-115	115.0	19.02	18.11	0.750+j3.409	0.698+j3.960	21.80	20.53	0.666+j3.284	0.694+j3.914
DENSO	DEN-115	115.0	6.67	5.24	2.554+j9.624	4.178+j17.590	7.46	5.83	2.425+j9.483	4.168+j17.519
DESCANSADERO	DSC-69	69.0	1.45	1.14	11.616+j24.951	15.715+j47.593	1.73	1.37	10.854+j22.883	14.818+j43.302
DESTILADERAS	DST-115	115.0	3.79	3.41	5.043+j16.797	5.120+j22.831	4.47	3.91	4.315+j15.742	5.119+j22.777
DICUMSA	DIC-115	115.0	18.78	17.12	0.794+j3.446	0.760+j4.509	21.53	19.37	0.707+j3.318	0.756+j4.467
DISTEX	DTX-115	115.0	17.30	15.84	1.039+j3.696	0.933+j4.814	19.48	17.67	0.985+j3.618	0.933+j4.818
DOLORES HIDALGO	DHD-115	115.0	6.95	4.58	2.831+j9.130	5.143+j23.849	7.72	5.07	2.779+j9.046	5.149+j23.771
DOMINICA	DMN-115	115.0	3.57	4.68	1.910+j18.493	0.138+j5.359	3.91	5.15	1.897+j18.568	0.134+j5.197
DOMO SAN PEDRO	DSP-115	115.0	1.66	1.76	8.194+j39.110	3.460+j33.300	1.82	1.94	8.270+j39.286	3.350+j32.545
DON VASCO	VCO-115	115.0	2.73	1.87	7.993+j22.926	20.301+j54.413	3.07	2.08	7.652+j22.545	20.284+j54.284
EATON	EAT-115	115.0	16.82	14.17	0.906+j3.842	1.203+j6.051	19.18	15.95	0.820+j3.718	1.199+j6.007
EDOSA	EDO-69	69.0	7.16	4.79	1.617+j5.321	3.371+j13.424	8.09	5.34	1.524+j5.198	3.367+j13.348
EL ARBOLITO	ABO-115	115.0	4.12	2.90	5.966+j14.958	12.549+j34.294	4.58	3.21	5.884+j14.828	12.481+j34.042
EL CAJÓN	CJN-400	400.0	7.29	6.23	6.063+j31.113	10.273+j46.677	16.20	16.87	1.184+j15.633	1.309+j13.733
EL CAMPANARIO	CAM-115	115.0	16.32	12.47	0.866+j3.974	1.646+j7.665	18.36	13.88	0.810+j3.894	1.646+j7.661
EL COLEGIO	ELC-115	115.0	7.66	6.09	2.361+j8.336	4.563+j14.701	8.55	6.76	2.261+j8.236	4.554+j14.624
EL GRANJENO	EGJ-115	115.0	13.17	11.04	1.318+j4.868	2.047+j7.689	14.95	12.38	1.198+j4.737	2.042+j7.659
EL GRULLO	GRU-110	115.0	0.82	0.52	27.279+j75.817	60.104+j215.465	0.91	0.57	26.998+j75.246	60.089+j215.343
EL MARQUÉS	MRQ-115	115.0	15.18	13.63	1.059+j4.244	1.607+j5.638	17.04	15.18	1.002+j4.168	1.606+j5.637
EL MARQUÉS ORIENTE	MQO-115	115.0	14.23	11.99	1.001+j4.557	1.378+j7.155	15.95	13.32	0.943+j4.482	1.377+j7.154
EL MIRADOR	MRR-115	115.0	5.55	4.87	3.476+j11.442	3.738+j16.569	6.86	5.80	2.620+j10.314	3.661+j16.074
EL MOLINO	MOL-115	115.0	10.40	8.27	1.387+j6.233	2.251+j11.084	11.70	9.24	1.268+j6.110	2.237+j11.015
EL MONTEON	MTN-115	115.0	2.80	2.24	8.594+j22.077	16.954+j37.875	3.25	2.54	7.915+j21.031	16.946+j37.794



Subestación Eléctrica	Acrónimo	Tensión (kV)	Corriente de cortocircuito (kA) e impedancias de Thévenin secuencias positiva y cero (Ω)							
			NCC mínimo 2026				NCC máximo 2026			
			3F	1F	ZTH(+)	ZTH(0)	3F	1F	ZTH(+)	ZTH(0)
EL PALMAR	EPM-115	115.0	4.16	2.01	4.864+j15.208	19.281+j64.421	4.59	2.21	4.821+j15.160	19.282+j64.404
EL PARDILLO	PRL-110	115.0	3.52	2.54	5.145+j18.170	11.476+j39.128	3.96	2.83	4.864+j17.778	11.466+j39.038
EL POTOSÍ	EPS-400	400.0	11.99	12.54	3.291+j18.986	1.931+j16.706	14.29	14.56	2.454+j17.607	1.955+j16.777
EL POTOSÍ	EPS-230	230.0	16.52	19.05	1.451+j7.909	0.492+j4.838	19.43	22.05	1.163+j7.429	0.497+j4.831
EL POTOSÍ	EPS-115	115.0	25.63	27.63	0.404+j2.559	0.164+j2.031	29.38	31.27	0.333+j2.464	0.166+j2.037
EL REALITO	ELR-115	115.0	2.48	1.44	4.896+j26.285	16.120+j82.823	2.74	1.59	4.851+j26.202	16.106+j82.647
EL REFUJO	RFJ-115	115.0	3.52	2.11	5.640+j17.972	15.837+j54.452	3.91	2.33	5.483+j17.839	15.818+j54.365
EL SALTO	ESJ-69	69.0	15.61	13.02	0.674+j2.461	1.024+j3.944	17.99	14.74	0.598+j2.361	1.025+j3.913
EL SAUCITO	MSU-115	115.0	6.96	6.57	2.701+j9.153	1.707+j11.159	7.95	7.41	2.450+j8.851	1.706+j11.130
EL SAUZ	SAU-400	400.0	17.04	14.51	1.727+j13.441	2.960+j20.394	20.07	16.66	1.204+j12.600	2.968+j20.190
EL SAUZ	SAU-230	230.0	16.22	15.18	1.336+j8.075	1.124+j9.812	20.47	19.85	0.983+j7.068	0.733+j7.770
EL SAUZ	SAU-115	115.0	26.50	28.66	0.405+j2.473	0.148+j1.936	30.07	32.82	0.363+j2.402	0.127+j1.815
EL SOL	SOL-69	69.0	16.19	11.84	0.639+j2.376	1.245+j5.022	18.75	13.45	0.553+j2.271	1.229+j4.954
EL SOL (BUS B)	SOL-69B	69.0	18.95	14.41	0.519+j2.037	0.898+j3.992	22.12	16.44	0.435+j1.933	0.887+j3.936
EL SOL (CARAPAN)	ESO-115	115.0	5.96	4.06	3.281+j10.652	8.866+j25.212	6.71	4.53	3.099+j10.434	8.862+j25.149
EL TARAY	TAY-115	115.0	4.44	2.81	3.708+j14.491	2.294+j41.280	4.95	3.11	3.565+j14.307	2.276+j41.237
EL TORO	TOO-115	115.0	11.06	5.72	1.254+j5.871	5.847+j22.059	12.46	6.35	1.138+j5.750	5.847+j22.028
EL ZAPOTILLO	EZP-115	115.0	3.22	2.11	4.958+j19.991	14.846+j51.101	3.57	2.33	4.823+j19.865	14.841+j51.088
EMMAN TABLEROS S.A. DE C.V.	EMM-115	115.0	6.05	4.30	2.884+j10.582	5.819+j23.721	6.79	4.79	2.719+j10.414	5.775+j23.536
EMPAQUES MODERNOS	EMP-69	69.0	7.87	5.33	1.867+j4.706	4.250+j11.540	8.86	5.93	1.790+j4.608	4.252+j11.508
ENCARNACIÓN DE DÍAZ	ENC-110	115.0	5.19	4.20	2.933+j12.455	4.750+j21.293	5.79	4.66	2.809+j12.300	4.742+j21.250
ENVASES INNOVATIVOS	ENV-69	69.0	12.27	8.73	0.887+j3.124	1.727+j6.993	13.95	9.76	0.813+j3.034	1.726+j6.972
ENVASES UNIVERSALES	EVS-69	69.0	12.80	11.43	0.792+j3.010	0.914+j4.129	14.78	13.04	0.700+j2.882	0.910+j4.053
ENVASES Y TAPAS	EYT-115	115.0	6.72	7.11	2.397+j9.578	1.377+j8.172	7.96	8.34	2.016+j8.949	1.318+j7.844
EÓLICA CERRITOS (MESA MORENOS) MANIOBRAS	ECM-230	230.0	5.67	5.55	4.270+j23.039	3.962+j24.561	6.73	6.45	3.586+j21.415	3.900+j24.257
EÓLICA HUIMILPAN (SAN PEDRO) MANIOBRAS IXMIQUILPAN	HUM-115	115.0	3.38	3.45	7.006+j18.362	3.565+j18.346	3.73	3.80	6.974+j18.314	3.555+j18.316
ESTADIO CORREGIDORA	ECO-115	115.0	13.25	9.45	0.957+j4.919	1.155+j11.021	14.81	10.47	0.904+j4.848	1.155+j11.022
ESTANCIA DE ANIMAS	EDA-115	115.0	2.47	1.70	8.519+j25.474	20.480+j60.211	2.74	1.88	8.362+j25.282	20.479+j60.172
ESTANCITA	ETA-115	115.0	0.79	0.48	28.577+j79.463	60.601+j241.754	1.04	0.76	18.420+j67.638	30.568+j145.796
EXPERIENCIA	EXP-69	69.0	8.15	5.35	1.046+j4.772	3.200+j12.154	9.32	6.01	0.937+j4.609	3.188+j12.081
EZEQUIEL MONTES	EZM-110	115.0	7.54	4.34	2.404+j8.472	8.263+j27.030	8.35	4.79	2.362+j8.422	8.264+j27.013
FERTIMEX	FER-69	69.0	4.99	3.42	2.176+j7.687	4.485+j18.440	5.62	3.82	2.073+j7.523	4.472+j18.273
FIBERWEB DE MÉXICO S.A. DE C.V.	VTC-115	115.0	6.57	5.10	2.641+j9.750	4.817+j18.209	7.63	5.78	2.388+j9.274	4.802+j18.104
FLAMINGOS	FLA-115	115.0	5.16	5.97	3.560+j12.357	1.487+j7.494	6.27	7.09	2.852+j11.300	1.488+j7.450
FLEXTRONICS PLANTA SUR	SLT-69	69.0	9.88	6.21	1.063+j3.890	2.458+j10.911	11.16	6.91	0.985+j3.803	2.458+j10.906
FLUVIAL	FLU-115	115.0	4.71	4.94	3.939+j13.530	2.526+j11.879	5.69	5.80	3.190+j12.441	2.520+j11.800
FORJAS	FRJ-115	115.0	17.49	16.73	0.844+j3.700	0.818+j4.239	19.73	18.69	0.787+j3.618	0.818+j4.241
FRESNILLO INDUSTRIAL	FRI-110	115.0	6.87	6.74	2.867+j9.225	2.664+j9.872	7.85	7.61	2.622+j8.925	2.663+j9.845
FRESNILLO NORTE	FRN-115	115.0	7.86	9.46	2.251+j8.140	0.587+j4.165	9.01	10.76	2.016+j7.855	0.585+j4.140
FRESNILLO POTENCIA	FSO-230	230.0	4.50	5.28	7.597+j28.501	1.493+j16.520	5.20	6.03	6.673+j27.306	1.503+j16.541



Subestación Eléctrica	Acronímico	Tensión (kV)	Corriente de cortocircuito (kA) e impedancias de Thévenin secuencias positiva y cero (Ω)							
			NCC mínimo 2026				NCC máximo 2026			
			3F	1F	ZTH(+)	ZTH(0)	3F	1F	ZTH(+)	ZTH(0)
FRESNILLO POTENCIA	FSO-115	115.0	8.13	10.36	2.151+j7.876	0.220+j2.946	9.33	11.81	1.917+j7.593	0.218+j2.922
FRESNILLO SUR	FNO-115	115.0	7.47	7.24	2.595+j8.499	2.105+j9.545	8.58	8.19	2.342+j8.185	2.103+j9.513
FRESNO	FRE-69	69.0	13.19	9.13	0.793+j2.915	1.715+j6.836	15.11	10.28	0.709+j2.812	1.704+j6.778
GENERADORA ELÉCTRICA SAN RAFAEL, S.A.P.I. DE C.V.	SRA-115	115.0	2.78	2.08	5.960+j23.103	18.475+j44.711	3.70	3.43	4.140+j19.324	5.038+j23.745
GENERAL MOTORS DE MÉXICO	GMC-115	115.0	nan	nan	nan+jnan	nan+jnan	8.39	6.12	2.160+j8.431	5.050+j17.664
GENERAL TIRE	GRP-115	115.0	6.33	4.11	2.558+j10.164	7.969+j26.390	7.14	4.58	2.434+j9.938	7.956+j26.252
GKN	GKN-115	115.0	9.01	7.60	1.596+j7.196	2.741+j11.152	10.07	8.46	1.508+j7.096	2.726+j11.049
GÓMEZ PORTUGAL	GOP-115	115.0	9.21	6.25	1.490+j7.052	3.815+j17.044	10.42	6.97	1.354+j6.877	3.814+j17.043
GRAHAM PACKAGING PLASTIC	GRH-115	115.0	10.46	7.44	1.487+j6.172	4.297+j13.427	11.89	8.33	1.365+j5.991	4.291+j13.364
GRÁN JARDÍN	GJA-115	115.0	10.86	8.20	1.348+j5.966	2.312+j11.850	12.24	9.16	1.226+j5.839	2.293+j11.755
GUADALAJARA DOS	GUD-230	230.0	15.30	16.57	2.059+j8.429	0.954+j6.634	19.52	20.30	1.324+j7.365	0.943+j6.561
GUADALAJARA DOS	GUD-161	161.0	5.74	7.78	1.646+j16.103	0.128+j3.456	6.59	8.94	1.263+j15.474	0.121+j3.265
GUADALAJARA DOS	GUD-69	69.0	24.44	27.02	0.311+j1.600	0.094+j1.166	28.63	31.24	0.240+j1.512	0.092+j1.145
GUADALAJARA INDUSTRIAL	GUI-230	230.0	12.17	11.87	2.562+j10.603	1.814+j11.621	15.15	14.12	1.767+j9.479	1.820+j11.610
GUADALAJARA INDUSTRIAL	GUI-69	69.0	21.30	24.21	0.440+j1.818	0.084+j1.207	24.70	27.68	0.367+j1.736	0.084+j1.207
GUADALAJARA NORTE	GUN-230	230.0	11.22	10.56	2.624+j11.544	2.218+j13.897	16.22	15.93	1.336+j8.909	1.150+j9.421
GUADALAJARA NORTE	GUN-69	69.0	20.33	23.23	0.371+j1.924	0.098+j1.229	25.15	28.59	0.253+j1.724	0.074+j1.113
GUADALAJARA ORIENTE	GDO-230	230.0	14.28	14.80	2.080+j9.060	1.254+j8.251	19.23	18.90	1.176+j7.502	1.227+j7.903
GUADALAJARA ORIENTE	GDO-69	69.0	22.85	24.80	0.294+j1.719	0.098+j1.333	28.20	30.12	0.197+j1.542	0.095+j1.254
GUADALAJARA UNO	GDU-230	230.0	14.01	14.34	2.319+j9.193	1.382+j8.735	17.91	17.48	1.512+j8.015	1.365+j8.648
GUADALAJARA UNO	GDU-69	69.0	28.26	30.10	0.323+j1.372	0.109+j1.154	33.79	35.28	0.245+j1.273	0.106+j1.131
GUADALCAZAR	GDL-115	115.0	1.42	0.99	19.927+j42.150	31.400+j104.883	1.61	1.11	18.914+j41.245	30.488+j101.839
GUADALUPE	GPE-110	115.0	6.80	6.48	3.367+j9.171	3.147+j10.783	7.87	7.40	3.069+j8.755	3.125+j10.655
GUANAJUATO	GTO-115	115.0	8.08	4.91	1.775+j8.018	5.985+j23.425	9.10	5.45	1.648+j7.857	5.981+j23.376
GUANAJUATO SUR	GSU-115	115.0	9.24	5.86	1.573+j7.013	4.642+j19.069	10.43	6.53	1.446+j6.850	4.638+j19.020
GUARDIÁN INDUSTRIE VP	GDI-115	115.0	9.34	6.74	1.817+j6.871	4.038+j14.787	10.37	7.45	1.773+j6.814	4.037+j14.774
GUASCARO	GSO-115	115.0	5.68	3.78	3.229+j11.245	7.922+j28.192	6.40	4.21	3.032+j11.003	7.920+j28.149
GUAYABITOS	GYS-115	115.0	2.73	2.12	8.973+j22.637	18.412+j41.513	3.16	2.39	8.302+j21.596	18.400+j41.420
GUEVARA	GVA-115	115.0	0.87	0.54	26.193+j71.292	53.956+j211.457	1.19	0.91	16.118+j59.278	23.978+j115.596
HACIENDA	HDA-115	115.0	12.60	9.61	1.364+j5.089	2.781+j9.801	14.16	10.72	1.282+j4.994	2.771+j9.733
HACIENDA NUEVA	HNV-115	115.0	4.58	4.25	4.250+j13.849	5.560+j16.994	5.23	4.81	3.922+j13.396	5.536+j16.802
HENKEL CAPITAL S.A. DE C.V.	RSS-115	115.0	14.62	13.82	1.015+j4.428	1.043+j5.230	17.80	16.60	0.839+j4.017	1.036+j4.882
HERDEZ	HER-115	115.0	18.13	14.74	0.824+j3.567	1.056+j6.112	20.76	16.61	0.738+j3.440	1.052+j6.070
HIGUERILLAS	HIG-69	69.0	15.38	9.28	0.928+j2.419	1.481+j7.600	17.60	10.39	0.855+j2.338	1.474+j7.574
HILASAL MEXICANA S.A.B. DE C.V.	HYL-69	69.0	13.85	11.12	0.788+j2.766	1.375+j4.797	15.90	12.56	0.710+j2.663	1.377+j4.761
HIROTEC MÉXICO S.A. DE C.V.	AVT-115	115.0	7.34	7.07	2.406+j8.721	3.834+j9.362	8.25	7.91	2.279+j8.556	3.828+j9.305
HONDA DE MÉXICO S.A. DE C.V. EL SALTO	HON-69	69.0	14.44	11.60	0.744+j2.657	1.229+j4.621	16.58	13.10	0.667+j2.557	1.230+j4.590
HORUS MANIOBRAS	HOM-230	230.0	8.59	7.50	2.782+j15.212	4.713+j21.728	10.28	8.71	2.152+j14.046	4.602+j21.448
HUACANA	HUC-69	69.0	1.34	0.76	13.971+j26.212	30.990+j92.912	1.84	1.17	10.861+j21.195	22.501+j60.978
HUANACAXTLE	HUA-115	115.0	4.02	3.79	4.816+j15.806	4.333+j19.115	4.77	4.37	4.096+j14.750	4.332+j19.066



Subestación Eléctrica	Acrónimo	Tensión (kV)	Corriente de cortocircuito (kA) e impedancias de Thévenin secuencias positiva y cero (Ω)							
			NCC mínimo 2026				NCC máximo 2026			
			3F	1F	ZTH(+)	ZTH(0)	3F	1F	ZTH(+)	ZTH(0)
HUANIMARO	HNM-115	115.0	3.97	2.98	4.529+j16.088	12.143+j31.288	4.42	3.31	4.391+j15.916	12.095+j31.058
HUENTITÁN	HUN-69	69.0	10.38	7.03	1.022+j3.697	2.443+j8.990	13.10	10.56	0.814+j3.244	1.555+j5.549
HUICHAPAN	HCH-115	115.0	1.65	0.87	12.271+j38.373	43.819+j141.839	1.82	0.96	12.229+j38.327	43.820+j141.822
HUMEDADES	HUM-115	115.0	1.42	1.01	15.593+j44.082	31.481+j99.432	1.65	1.15	14.583+j41.798	30.959+j96.785
HUNTSMAN INTERNATIONAL DE MÉXICO	HMA-115	115.0	3.53	2.27	4.721+j18.222	12.178+j48.647	3.92	2.51	4.556+j18.055	12.134+j48.461
IBÍDEM	IBD-115	115.0	11.19	10.16	1.561+j5.727	1.667+j7.553	12.60	11.56	1.482+j5.602	1.547+j7.210
IBM DE MÉXICO S.A. DE C.V.	IBM-69	69.0	21.78	21.64	0.353+j1.795	0.281+j1.845	25.33	24.78	0.282+j1.707	0.279+j1.824
IBM-ALKA	IBA-69	69.0	22.94	23.82	0.334+j1.704	0.195+j1.534	26.76	27.39	0.263+j1.616	0.194+j1.513
IMMSA	IMM-115	115.0	4.76	4.77	3.423+j13.519	4.595+j13.129	5.27	5.29	3.370+j13.443	4.579+j12.977
IND MINERA MÉXICO	MNR-230	230.0	10.61	8.89	2.442+j12.272	4.674+j19.254	12.28	10.07	2.115+j11.710	4.677+j19.181
INDEPENDENCIA	INE-115	115.0	8.13	7.15	2.074+j7.903	2.382+j11.269	9.11	7.99	1.949+j7.780	2.364+j11.152
INDUSTRIAL SAN FRANCISCO	ISF-115	115.0	10.99	8.00	1.236+j5.916	2.169+j12.647	12.47	8.94	1.105+j5.753	2.168+j12.639
INGENIO TALA	ING-69	69.0	0.88	0.53	23.501+j38.506	47.570+j127.684	1.12	0.72	20.380+j33.572	39.044+j95.707
INNOPACK	INN-115	115.0	9.97	7.05	1.542+j6.477	3.910+j14.405	11.23	7.85	1.422+j6.346	3.907+j14.378
INVISTA	INV-115	115.0	18.33	20.16	0.967+j3.490	0.499+j2.593	20.67	22.57	0.913+j3.413	0.500+j2.598
IRAPUATO II	IRA-230	230.0	19.38	19.31	1.504+j6.684	1.142+j6.835	24.73	23.77	1.019+j5.819	1.127+j6.524
IRAPUATO II	IRA-115	115.0	25.44	27.89	0.535+j2.554	0.191+j1.920	30.52	32.97	0.411+j2.357	0.184+j1.854
IRAPUATO INDUSTRIAL	IRI-115	115.0	12.78	9.73	1.222+j5.050	2.890+j9.667	14.63	10.96	1.099+j4.869	2.884+j9.604
IRAPUATO PONIENTE	IPP-115	115.0	13.92	9.75	1.015+j4.661	2.206+j10.658	15.96	10.97	0.891+j4.489	2.199+j10.598
IRAPUATO UNO	IRP-110	115.0	20.82	17.22	0.712+j3.109	1.061+j5.077	24.44	19.73	0.587+j2.930	1.055+j5.021
IRAPUATO VILLAS	IRV-115	115.0	16.00	11.76	0.900+j4.051	1.764+j8.462	18.48	13.29	0.775+j3.876	1.758+j8.405
ITALAISE	ITA-115	115.0	8.87	6.36	2.001+j7.217	3.659+j15.930	10.12	7.13	1.848+j6.976	3.639+j15.877
IXTLAHUACAN	ITC-400	400.0	9.77	7.40	4.338+j23.246	9.278+j45.343	16.12	12.48	1.519+j15.684	5.917+j29.064
IXTLAN	ITL-115	115.0	6.48	4.80	2.838+j9.852	7.133+j19.772	7.29	5.35	2.666+j9.650	7.125+j19.709
JABIL CIRCUIT DE MÉXICO	JBL-69	69.0	11.83	6.90	0.797+j3.273	2.530+j10.287	13.53	7.73	0.709+j3.160	2.516+j10.217
JACONA	JCN-115	115.0	9.77	7.82	1.646+j6.592	2.754+j11.561	11.17	8.80	1.472+j6.373	2.744+j11.497
JAGUAR	CBO-69	69.0	15.56	10.75	0.606+j2.488	1.142+j5.889	18.00	12.16	0.522+j2.377	1.133+j5.835
JALOSTOTITLAN	JLT-115	115.0	7.08	5.71	2.124+j9.129	3.995+j15.631	7.92	6.34	1.992+j8.999	3.992+j15.623
JALPA	JAP-115	115.0	2.28	1.36	9.288+j27.665	9.692+j88.718	2.52	1.50	9.140+j27.497	9.674+j88.673
JARAL DEL PROGRESO	JDP-115	115.0	4.81	2.99	3.666+j13.304	11.399+j37.356	5.39	3.32	3.540+j13.079	11.386+j37.217
JARRETADERAS	JDA-115	115.0	4.90	5.60	3.725+j13.033	1.939+j8.262	5.92	6.64	3.006+j11.971	1.891+j8.098
JATCO	JAT-115	115.0	11.30	8.19	1.228+j5.747	2.034+j12.408	12.98	9.21	1.080+j5.522	2.032+j12.385
JATCO II	JTC-115	115.0	13.67	12.05	0.914+j4.769	1.000+j6.749	15.90	13.73	0.765+j4.529	0.998+j6.709
JEREZ	JRZ-115	115.0	2.10	1.48	10.969+j29.592	22.920+j68.167	2.35	1.63	10.675+j29.229	22.909+j68.080
JESÚS DEL MONTE	JEM-110	115.0	10.97	8.02	1.320+j5.904	3.185+j12.342	12.38	8.94	1.201+j5.775	3.184+j12.316
JESUS MARÍA	JSM-115	115.0	14.62	10.57	0.950+j4.442	1.420+j9.675	16.90	11.91	0.810+j4.245	1.414+j9.656
JESÚS MARÍA	JMA-115	115.0	3.06	2.51	6.762+j20.598	12.314+j33.911	3.40	2.78	6.588+j20.437	12.278+j33.757
JIQUILPAN	JIQ-115	115.0	7.82	5.41	2.032+j8.239	4.855+j19.256	8.84	6.03	1.872+j8.043	4.855+j19.226
JOCOTEPEC	JCT-69	69.0	3.78	2.23	3.009+j10.095	9.061+j31.299	4.21	2.46	2.931+j9.991	9.061+j31.282
JOYUELAS	JYU-110	115.0	5.46	3.72	3.381+j11.680	8.738+j27.924	6.10	4.13	3.267+j11.511	8.728+j27.827



Subestación Eléctrica	Acrónimo	Tensión (kV)	Corriente de cortocircuito (kA) e impedancias de Thévenin secuencias positiva y cero (Ω)							
			NCC mínimo 2026				NCC máximo 2026			
			3F	1F	ZTH(+)	ZTH(0)	3F	1F	ZTH(+)	ZTH(0)
JUAN JOSÉ ARREOLA	JUJ-115	115.0	5.47	5.58	2.996+j11.770	2.742+j11.039	6.20	6.33	2.755+j11.457	2.691+j10.715
JUAN RULFO	JRU-115	115.0	1.89	1.26	10.968+j33.434	27.110+j83.719	2.10	1.39	10.722+j33.158	27.064+j83.454
JULIÁN CARRILLO	JCR-115	115.0	5.17	3.40	3.957+j12.205	10.012+j31.395	5.74	3.75	3.883+j12.105	10.014+j31.392
JUPITER MANIOBRAS	JPM-400	400.0	19.80	17.70	1.817+j11.522	2.360+j15.562	23.56	20.44	1.296+j10.706	2.376+j15.470
JUPITER MANIOBRAS	JPM-115	115.0	33.77	31.07	0.305+j1.942	0.278+j2.460	37.99	34.75	0.267+j1.904	0.278+j2.440
JUPITER MANIOBRAS DOS	JMD-115	115.0	17.47	12.51	0.781+j3.720	1.885+j8.096	19.45	13.86	0.742+j3.680	1.885+j8.077
JURICA	JUR-110	115.0	11.90	9.41	1.775+j5.292	0.877+j10.114	13.34	10.45	1.710+j5.201	0.878+j10.115
KELLOGG'S DE MÉXICO S.R.L. DE C.V.	KEL-115	115.0	13.24	12.45	1.340+j4.834	1.113+j5.867	14.90	13.90	1.268+j4.734	1.112+j5.868
KIMBERLY CLARK DE MÉXICO	KIM-115	115.0	17.01	14.51	0.748+j3.831	1.011+j5.839	19.06	16.21	0.707+j3.767	0.996+j5.765
KODAK DE MÉXICO S.A. DE C.V.	KDK-69	69.0	12.82	8.44	0.821+j2.997	1.876+j7.719	14.68	9.49	0.737+j2.893	1.865+j7.663
KRUPP	KRP-115	115.0	19.62	19.62	0.745+j3.301	0.564+j3.344	22.53	22.30	0.659+j3.173	0.560+j3.301
LA BARCA	BRC-115	115.0	8.01	6.52	2.499+j7.904	4.165+j13.344	9.05	7.32	2.335+j7.729	4.120+j13.150
LA BUFA MANIOBRAS	BFM-230	230.0	5.14	5.12	5.458+j25.239	4.545+j25.840	5.94	5.88	4.695+j24.135	4.363+j25.056
LA CALIFORNIA	CLF-115	115.0	11.46	8.27	1.337+j5.638	2.696+j12.210	12.81	9.22	1.290+j5.554	2.689+j12.071
LA CUEVA	CUV-115	115.0	5.75	4.37	2.993+j11.152	6.628+j21.456	6.42	4.85	2.863+j11.012	6.625+j21.442
LA ESPERANZA	LAE-115	115.0	6.14	5.47	3.298+j10.289	3.350+j14.454	7.68	6.55	2.458+j9.182	3.290+j14.054
LA ESPIGA	ESP-115	115.0	16.67	12.73	0.828+j3.897	1.563+j7.511	18.76	14.17	0.772+j3.816	1.563+j7.509
LA ESTRELLA	ELA-115	115.0	3.54	2.52	5.144+j18.013	10.810+j40.159	4.16	3.15	4.584+j16.944	8.117+j33.586
LA FRAGUA	FRA-115	115.0	9.84	7.63	1.795+j6.506	2.978+j12.258	11.25	8.58	1.649+j6.278	2.960+j12.211
LA GRIEGA	GRI-115	115.0	8.38	6.09	2.127+j7.633	4.774+j16.184	9.31	6.73	2.079+j7.569	4.773+j16.172
LA HUERTA	LHT-115	115.0	2.12	1.70	8.633+j30.040	14.056+j53.165	2.39	1.89	8.368+j29.430	14.043+j53.044
LA JOYA	LJY-115	115.0	16.58	15.06	0.918+j3.897	0.991+j5.127	18.98	17.07	0.796+j3.764	0.976+j5.046
LA LOMA	LLM-115	115.0	12.56	9.75	1.194+j5.151	1.956+j9.655	14.03	10.84	1.142+j5.080	1.939+j9.613
LA MANGA	MAN-230	230.0	8.94	6.26	2.380+j14.666	8.419+j32.884	10.39	7.22	2.095+j13.901	8.185+j31.642
LA MANSIÓN	MNS-115	115.0	14.48	10.72	0.820+j4.512	1.885+j9.225	16.22	11.93	0.774+j4.437	1.876+j9.161
LA MORA	MRA-115	115.0	10.69	8.00	1.359+j6.059	3.421+j12.008	12.06	8.92	1.239+j5.930	3.420+j11.982
LA PALMA	PLM-115	115.0	16.47	11.98	1.034+j3.897	2.934+j8.058	18.40	13.32	0.996+j3.843	2.931+j8.012
LA PIEDAD	LPI-115	115.0	6.93	5.00	2.813+j9.163	7.018+j19.461	7.83	5.58	2.632+j8.946	7.015+j19.401
LA PIEDAD PONIENTE	LPP-115	115.0	5.86	3.97	3.327+j10.829	9.357+j25.888	6.60	4.42	3.145+j10.609	9.353+j25.825
LA PILA	SPI-230	230.0	13.83	14.33	1.764+j9.440	1.381+j8.498	16.39	16.73	1.444+j8.796	1.374+j8.261
LA PILA	SPI-115	115.0	21.40	22.71	0.666+j3.030	0.342+j2.551	24.64	25.94	0.583+j2.906	0.337+j2.502
LA PRIMAVERA (BAJÍO)	PRI-230	230.0	9.74	8.32	2.829+j13.332	4.655+j20.111	12.43	10.01	1.823+j11.610	4.620+j19.766
LA RESOLANA	LRE-115	115.0	8.61	8.32	1.376+j7.592	2.539+j8.152	9.95	9.45	1.127+j7.251	2.539+j8.178
LA SOLEDAD	SDD-115	115.0	9.50	7.69	1.605+j6.804	3.912+j11.279	10.76	8.64	1.509+j6.616	3.905+j11.151
LA VEGA	LVG-69	69.0	1.87	1.35	7.009+j20.099	10.262+j44.895	2.43	1.61	5.169+j17.281	10.313+j44.320
LA VENTA	LVT-69	69.0	4.84	2.91	2.456+j7.848	6.097+j23.824	6.26	3.91	1.795+j6.764	4.716+j19.043
LA VENTILLA	VLT-115	115.0	5.16	4.15	3.332+j12.439	5.840+j21.409	5.74	4.62	3.256+j12.307	5.812+j21.205
LA VIRGEN	LVR-115	115.0	4.89	3.04	3.270+j13.179	8.059+j37.445	5.43	3.37	3.145+j13.065	8.040+j37.349
LABORATORIOS PISA	LBP-69	69.0	6.79	4.24	1.488+j5.679	3.617+j16.028	7.61	4.71	1.408+j5.586	3.617+j16.017
LAGOS DE MORENO	LGS-110	115.0	5.13	3.21	3.105+j12.559	7.503+j35.325	5.71	3.56	2.981+j12.443	7.484+j35.229



Subestación Eléctrica	Acrónimo	Tensión (kV)	Corriente de cortocircuito (kA) e impedancias de Thévenin secuencias positiva y cero (Ω)							
			NCC mínimo 2026				NCC máximo 2026			
			3F	1F	ZTH(+)	ZTH(0)	3F	1F	ZTH(+)	ZTH(0)
LAGOS GALERA	LGG-115	115.0	5.07	3.17	3.075+j12.740	7.609+j35.788	5.63	3.51	2.951+j12.624	7.590+j35.692
LAGUNA COLORADA	LAC-115	115.0	1.05	0.65	25.373+j58.042	63.960+j170.052	1.16	0.71	25.131+j57.817	63.957+j170.026
LAGUNA LARGA	LGL-115	115.0	4.03	2.48	5.162+j15.632	16.140+j44.432	4.50	2.75	4.994+j15.424	16.127+j44.350
LAGUNA SAN VICENTE	LSV-230	230.0	10.56	9.76	2.460+j12.334	3.295+j15.339	12.36	11.22	2.106+j11.633	3.283+j15.076
LAGUNA SECA	LAS-110	115.0	4.72	3.64	4.737+j13.239	8.401+j25.269	5.43	4.10	4.345+j12.734	8.389+j25.183
LAGUNILLAS	LAG-115	115.0	3.84	2.82	5.068+j16.547	13.106+j33.487	4.32	3.15	4.784+j16.235	13.090+j33.372
LALA DERIVADOS LÁCTEOS S.A. DE C.V.	LAL-115	115.0	10.74	7.72	1.414+j6.019	4.075+j12.833	12.22	8.65	1.292+j5.838	4.069+j12.770
LAMOSA	LAM-115	115.0	16.37	13.70	0.935+j3.945	1.311+j6.297	18.66	15.41	0.850+j3.821	1.307+j6.253
LAMPOTAL	LPL-115	115.0	5.19	3.99	3.499+j12.313	6.187+j23.468	5.95	4.50	3.172+j11.867	6.168+j23.369
LAPEM	LPM-115	115.0	10.50	7.88	1.670+j6.099	3.724+j12.086	11.94	8.83	1.548+j5.917	3.718+j12.023
LAS BRISAS	BRI-115	115.0	7.74	6.67	1.823+j8.379	2.648+j12.445	9.91	8.14	1.293+j7.257	2.579+j11.887
LAS COLINAS	LCN-115	115.0	8.74	7.04	2.016+j7.323	3.234+j12.684	9.84	7.87	1.890+j7.175	3.223+j12.611
LAS DELICIAS	LDE-230	230.0	22.03	24.27	0.836+j5.969	0.364+j4.348	25.30	27.76	0.720+j5.727	0.352+j4.231
LAS FAJAS	FAJ-110	115.0	0.87	0.53	31.101+j69.573	77.724+j211.443	0.96	0.58	30.861+j69.356	77.721+j211.416
LAS FRESAS	LFR-400	400.0	15.43	14.71	3.135+j14.638	2.878+j16.899	20.49	18.67	1.801+j12.265	2.776+j15.776
LAS FRESAS	LFR-115	115.0	23.80	22.17	0.519+j2.741	0.402+j3.384	27.97	25.65	0.402+j2.580	0.392+j3.299
LAS PINTAS	LPS-69	69.0	15.44	10.62	0.721+j2.478	1.125+j5.998	17.65	11.89	0.648+j2.397	1.124+j5.998
LAS TORRES	LTL-115	115.0	11.14	9.88	1.290+j5.817	1.313+j8.142	12.55	11.07	1.175+j5.701	1.290+j8.048
LAS VARAS	VRS-115	115.0	2.66	1.94	9.503+j23.094	19.965+j49.067	3.07	2.18	8.864+j22.053	19.943+j48.911
LEAR CORP (SELVA)	LCO-115	115.0	16.27	13.60	0.942+j3.971	1.336+j6.354	18.53	15.29	0.857+j3.846	1.332+j6.310
LEÓN ALFARO	LNA-115	115.0	11.05	8.62	1.467+j5.825	2.388+j10.825	12.47	9.62	1.346+j5.702	2.384+j10.795
LEÓN CUATRO	LNC-230	230.0	10.67	10.19	2.770+j12.139	2.274+j14.018	12.44	11.63	2.285+j11.521	2.287+j14.022
LEÓN CUATRO	LNC-115	115.0	15.90	17.23	0.930+j4.070	0.365+j3.206	18.10	19.42	0.812+j3.953	0.363+j3.198
LEÓN MALECÓN	LNМ-115	115.0	11.73	9.47	1.525+j5.448	2.071+j9.492	13.27	10.61	1.404+j5.321	2.061+j9.435
LEÓN NORTE	LNN-115	115.0	13.32	11.06	1.107+j4.860	1.688+j7.858	15.11	12.43	0.985+j4.731	1.675+j7.783
LEÓN ORIENTE	LNO-110	115.0	12.08	10.64	1.330+j5.334	1.608+j7.567	13.65	11.89	1.210+j5.213	1.606+j7.556
LEÓN PONIENTE	LNP-110	115.0	13.70	10.27	1.087+j4.722	2.130+j9.467	15.57	11.52	0.965+j4.590	2.118+j9.398
LEÓN TRES	LNT-230	230.0	12.39	11.79	2.340+j10.457	2.076+j12.194	14.57	13.58	1.865+j9.847	2.026+j12.051
LEÓN TRES	LNT-115	115.0	19.47	21.12	0.788+j3.317	0.300+j2.608	22.45	24.27	0.666+j3.184	0.282+j2.513
LEÓN UNO	LNU-230	230.0	14.84	15.39	2.044+j8.709	1.259+j7.906	17.75	17.95	1.568+j8.077	1.257+j7.858
LEÓN UNO	LNU-115	115.0	20.16	22.13	0.674+j3.224	0.225+j2.413	23.25	25.28	0.553+j3.092	0.221+j2.383
LINDAVISTA	LIV-115	115.0	8.24	7.01	1.988+j7.809	3.039+j11.913	9.36	7.88	1.813+j7.587	3.020+j11.816
LOGISTIK	LOG-115	115.0	11.44	10.54	1.536+j5.598	1.573+j7.119	12.89	12.01	1.457+j5.473	1.453+j6.776
LOMAS	LMS-69	69.0	13.18	9.76	0.766+j2.925	1.829+j5.926	15.08	10.98	0.684+j2.824	1.823+j5.889
LOMBARDÍA	LMB-69	69.0	2.49	1.32	5.664+j14.979	15.405+j56.587	5.63	5.77	1.769+j7.585	1.275+j7.102
LORETO	LOR-115	115.0	4.21	2.78	4.882+j15.010	10.951+j38.694	4.68	3.07	4.748+j14.851	10.951+j38.678
LOS FRESNOS	FRS-115	115.0	9.95	7.25	1.430+j6.515	3.250+j13.766	11.26	8.10	1.305+j6.354	3.244+j13.709
LOS HERNÁNDEZ	HDZ-110	115.0	1.41	0.96	18.777+j43.103	44.274+j104.562	1.59	1.07	18.042+j42.355	44.261+j104.475
LOS OLIVOS (IRAPUATO)	OLV-115	115.0	13.09	9.00	1.046+j4.964	2.390+j11.732	14.96	10.11	0.923+j4.795	2.383+j11.667
LOS REYES	RYS-115	115.0	4.13	2.71	4.656+j15.383	12.480+j39.542	4.64	3.01	4.417+j15.091	12.478+j39.489



Subestación Eléctrica	Acrónimo	Tensión (kV)	Corriente de cortocircuito (kA) e impedancias de Thévenin secuencias positiva y cero (Ω)							
			NCC mínimo 2026				NCC máximo 2026			
			3F	1F	ZTH(+)	ZTH(0)	3F	1F	ZTH(+)	ZTH(0)
LOS SAUCES	LSA-115	115.0	9.18	6.31	2.182+j6.897	4.572+j16.495	10.34	7.02	2.059+j6.756	4.570+j16.462
LUIS MOYA	LMY-110	115.0	5.17	4.25	4.679+j11.957	4.665+j20.832	5.94	4.81	4.367+j11.483	4.661+j20.783
MABE LEISER (SLP)	MBL-115	115.0	18.58	17.55	0.777+j3.487	0.809+j4.132	21.28	19.87	0.691+j3.361	0.806+j4.090
MABE MÉXICO S. DE R.L. DE C.V. (QUERETARO)	MBE-115	115.0	14.97	14.33	1.124+j4.289	0.926+j4.955	16.85	15.98	1.063+j4.203	0.926+j4.957
MAHLE	MAH-115	115.0	11.31	9.36	1.406+j5.698	3.196+j9.029	12.93	10.51	1.268+j5.507	3.195+j9.039
MALPASO	MPO-115	115.0	3.17	2.30	7.639+j19.522	11.819+j43.148	3.56	2.56	7.348+j19.150	11.808+j43.060
MANIOBRAS AISIN TAKAOKA	MTK-115	115.0	9.45	6.05	1.508+j6.866	4.010+j18.438	10.69	6.74	1.380+j6.694	4.005+j18.387
MANIOBRAS BMW	MBM-230	230.0	10.60	8.53	2.474+j12.284	5.119+j21.038	12.46	9.84	2.126+j11.525	5.064+j20.514
MANIOBRAS GENERAL MOTORS	MGM-230	230.0	10.23	8.26	2.726+j12.689	4.872+j21.738	12.01	9.44	2.235+j11.952	4.861+j21.584
MANIOBRAS GETRAG	MGT-115	115.0	7.65	4.46	1.802+j8.491	6.548+j26.500	8.59	4.95	1.677+j8.331	6.540+j26.439
MANIOBRAS GKN	MGK-115	115.0	9.12	7.72	1.580+j7.103	2.684+j10.938	10.20	8.60	1.491+j7.004	2.669+j10.835
MANIOBRAS HONDA	MHN-115	115.0	14.08	10.36	0.914+j4.626	2.287+j9.530	15.82	11.55	0.838+j4.540	2.281+j9.469
MANIOBRAS IBERDROLA	MIB-115	115.0	16.69	14.23	0.771+j3.903	1.028+j5.949	18.68	15.90	0.731+j3.841	1.011+j5.871
MANIOBRAS KASAI	MKI-115	115.0	17.32	17.38	0.772+j3.754	0.681+j3.732	19.84	19.70	0.651+j3.623	0.676+j3.702
MANIOBRAS MEXSOLAR	MMX-115	115.0	7.15	6.81	2.172+j9.024	1.635+j10.571	8.44	7.88	1.877+j8.443	1.600+j10.408
MANIOBRAS PLANTA FLOTACIÓN DE MINERAL	MPM-115	115.0	4.70	4.01	4.235+j13.463	5.959+j20.549	5.30	4.48	3.999+j13.186	5.957+j20.524
MANIOBRAS SOLEM	MSL-230	230.0	8.29	9.00	2.901+j15.758	1.666+j12.103	10.25	10.80	2.169+j14.084	1.649+j11.999
MANIOBRAS TOYOTA	TOM-230	230.0	12.19	9.13	1.882+j10.729	3.675+j21.538	13.87	10.22	1.651+j10.398	3.675+j21.512
MANIOBRAS VESTA PARK	MVP-115	115.0	27.39	22.18	0.417+j2.388	0.682+j4.071	30.70	24.70	0.380+j2.349	0.682+j4.052
MANIOBRAS WORLD TRADE CENTER DOS	MWD-230	230.0	9.93	8.39	2.431+j13.151	4.809+j20.186	11.62	9.66	2.081+j12.393	4.761+j19.700
MANUFACTURAS KALTEX S.A. DE C.V.	KAL-115	115.0	12.84	7.69	1.241+j5.022	4.012+j15.020	14.33	8.54	1.199+j4.955	4.000+j14.943
MANUFACTURAS VITROMEX I	VTM-115	115.0	6.45	4.85	2.863+j9.885	5.200+j19.778	7.48	5.49	2.612+j9.413	5.184+j19.672
MANUFACTURAS VITROMEX II	VT2-115	115.0	6.59	5.46	2.725+j9.705	4.342+j15.759	7.64	6.20	2.474+j9.233	4.327+j15.652
MANZANILLO	MNZ-400	400.0	12.24	14.89	2.385+j18.723	0.435+j8.775	26.91	33.24	0.529+j9.427	0.136+j4.042
MANZANILLO	MNZ-230	230.0	11.07	13.03	1.418+j11.914	0.502+j6.569	15.95	17.92	0.714+j9.128	0.477+j6.119
MARABIS CONMONFORT	MRC-115	115.0	8.24	5.64	2.339+j7.713	6.622+j18.045	9.17	6.24	2.274+j7.632	6.620+j18.021
MARAVATIO	MAV-115	115.0	2.26	1.44	8.273+j28.256	27.925+j74.384	2.51	1.59	8.046+j27.980	27.927+j74.360
MARGARITAS	MRS-115	115.0	14.73	10.93	0.913+j4.413	1.542+j9.082	16.98	12.31	0.779+j4.231	1.542+j9.083
MATEHUALA SUBESTACIÓN	MHS-110	115.0	2.39	1.94	9.058+j26.247	10.564+j46.212	2.63	2.14	9.074+j26.272	10.494+j45.944
MATEHUALA SUR	MHR-115	115.0	2.36	1.85	8.817+j26.684	12.353+j50.140	2.60	2.04	8.821+j26.694	12.297+j49.903
MAZAMITLA	MTA-400	400.0	10.75	8.21	3.597+j21.171	8.515+j40.474	14.20	9.94	1.986+j17.776	8.524+j40.025
MAZDA MANIOBRAS	MMZ-115	115.0	13.46	9.58	0.957+j4.841	2.409+j10.665	15.86	10.99	0.814+j4.532	2.404+j10.466
MEADWEST VACO (SAINT GO BAIN)	MEA-115	115.0	15.01	12.29	1.040+j4.300	1.695+j7.167	17.05	13.79	0.954+j4.175	1.691+j7.123
MELAUQUE	MLQ-115	115.0	3.68	4.21	4.252+j17.518	2.634+j10.960	4.21	4.78	4.001+j16.889	2.620+j10.841
METAL FOARMING	SMF-115	115.0	9.44	7.79	1.768+j6.809	2.466+j11.226	10.59	8.79	1.689+j6.684	2.346+j10.883
MEXICHEM DERIVADOS	MCH-115	115.0	9.40	7.23	2.053+j6.759	3.843+j12.861	10.62	8.07	1.947+j6.594	3.836+j12.836
MEXICHEM DERIVADOS	MCH-69	69.0	13.51	12.43	0.856+j2.822	1.116+j3.542	15.59	14.17	0.770+j2.703	1.114+j3.482
MÉXICO	MXJ-69	69.0	13.03	8.46	0.859+j2.934	1.660+j7.854	14.97	9.56	0.770+j2.825	1.628+j7.726
MEXTICACAN	MXT-115	115.0	3.14	2.06	5.360+j20.452	15.526+j51.964	3.48	2.28	5.224+j20.327	15.521+j51.951
MEZQUITÁN	MZI-110	115.0	1.14	0.78	17.416+j55.583	55.380+j127.272	1.39	0.90	13.917+j50.563	55.381+j127.298



Subestación Eléctrica	Acrónimo	Tensión (kV)	Corriente de cortocircuito (kA) e impedancias de Thévenin secuencias positiva y cero (Ω)							
			NCC mínimo 2026				NCC máximo 2026			
			3F	1F	ZTH(+)	ZTH(0)	3F	1F	ZTH(+)	ZTH(0)
MICHELIN	MIC-115	115.0	18.81	16.35	0.721+j3.456	0.937+j5.032	21.21	18.24	0.667+j3.378	0.937+j5.036
MICHELÍN MANIOBRAS	MMH-115	115.0	9.11	6.32	2.090+j6.979	4.282+j16.390	10.26	7.03	1.967+j6.841	4.281+j16.363
MICROPARQUE	MPQ-115	115.0	20.41	20.13	0.829+j3.145	0.750+j3.305	23.09	22.54	0.775+j3.067	0.751+j3.309
MIGUEL AUZA	MGU-115	115.0	0.74	0.45	37.465+j81.161	92.395+j249.047	0.82	0.49	37.226+j80.950	92.392+j249.020
MINA FRESNILLO	CMF-115	115.0	6.29	5.65	3.117+j10.084	2.764+j13.912	7.16	6.35	2.866+j9.784	2.763+j13.883
MINA LA PAZ	MLP-115	115.0	2.16	1.78	10.237+j28.971	10.515+j49.530	2.37	1.96	10.273+j29.020	10.421+j49.209
MINA PEÑOLES	PNO-115	115.0	3.64	2.75	4.785+j17.617	11.041+j34.079	4.10	3.07	4.497+j17.236	11.031+j33.994
MINA SAN JAVIER	MSJ-115	115.0	7.19	5.07	2.166+j8.973	5.539+j20.070	8.02	5.62	2.089+j8.858	5.530+j20.012
MINA SAUCITO	SUM-115	115.0	4.96	3.95	3.923+j12.793	5.351+j23.048	5.61	4.41	3.671+j12.499	5.350+j23.019
MINATITLÁN	MTC-115	115.0	6.61	4.68	2.397+j9.758	6.085+j21.626	7.78	5.32	2.158+j9.137	6.081+j21.538
MINERA PEÑASQUITO	PNQ-400	400.0	4.68	3.20	7.565+j48.713	27.045+j114.952	5.35	3.58	6.593+j46.999	27.012+j114.802
MINERALES Y MINAS MEXICANAS BOLAÑOS	BOL-115	115.0	0.90	0.57	34.285+j64.960	61.652+j192.770	1.00	0.63	34.134+j64.798	61.633+j192.725
MINSA, S.A. DE C.V.	MIN-69	69.0	9.84	5.92	1.571+j3.731	3.257+j11.668	11.11	6.59	1.498+j3.650	3.251+j11.642
MIRAMAR	MRM-115	115.0	9.11	7.57	1.585+j7.115	3.824+j11.148	11.06	8.82	1.365+j6.463	3.818+j11.044
MIRAVALLE	MIL-69	69.0	16.14	8.89	0.866+j2.312	1.821+j8.339	18.53	9.93	0.791+j2.229	1.820+j8.334
MISIÓN HILLS	MHI-115	115.0	8.58	6.43	1.944+j7.494	3.654+j15.036	9.76	7.21	1.799+j7.268	3.630+j14.976
MOCTEZUMA	MZM-115	115.0	5.94	4.74	2.561+j10.876	4.670+j19.077	6.75	5.37	2.369+j10.560	4.602+j18.638
MOJONERA	MOJ-69	69.0	16.29	11.46	0.571+j2.378	1.024+j5.440	18.90	12.99	0.488+j2.267	1.015+j5.386
MONARCA	MNC-115	115.0	6.15	4.07	3.266+j10.289	8.042+j26.198	6.88	4.51	3.191+j10.129	8.046+j26.146
MONTENEGRO	MNG-115	115.0	11.65	8.93	1.794+j5.409	1.378+j10.933	13.07	9.91	1.728+j5.316	1.379+j10.932
MORALETE	MTE-115	115.0	6.69	6.08	2.413+j9.633	3.353+j12.480	7.87	7.00	2.150+j9.031	3.330+j12.287
MORELIA	MEL-115	115.0	9.91	9.98	1.742+j6.473	1.334+j6.414	11.15	11.22	1.618+j6.347	1.316+j6.296
MORELIA DOS	MRD-115	115.0	8.54	7.79	1.987+j7.512	1.972+j9.836	9.59	8.72	1.859+j7.386	1.952+j9.714
MORELIA INDUSTRIAL	MOI-115	115.0	9.12	7.57	1.863+j7.037	2.720+j11.438	10.18	8.42	1.772+j6.953	2.711+j11.364
MORELIA NORTE	MOR-115	115.0	9.45	8.43	1.847+j6.782	2.234+j9.308	10.59	9.41	1.737+j6.676	2.221+j9.213
MORELIA POTENCIA	MRP-230	230.0	6.05	5.84	4.502+j21.469	2.908+j24.208	6.93	6.62	3.898+j20.699	2.837+j23.921
MORELIA POTENCIA	MRP-115	115.0	10.62	11.95	1.503+j6.068	0.408+j4.180	12.00	13.51	1.369+j5.933	0.386+j4.050
MORELOS	MRE-115	115.0	13.95	10.83	0.971+j4.659	1.557+j8.740	16.12	12.22	0.828+j4.454	1.555+j8.738
MORELOS (LEÓN)	MRL-115	115.0	12.95	11.31	1.166+j4.994	1.362+j7.225	14.65	12.66	1.048+j4.874	1.360+j7.212
MOROLEÓN	MLO-110	115.0	5.07	3.12	3.724+j12.560	11.792+j35.794	5.65	3.45	3.613+j12.407	11.785+j35.727
MUELLE	MLE-115	115.0	4.33	4.48	4.436+j14.688	4.408+j13.074	5.19	5.24	3.672+j13.582	4.402+j12.996
NAL DE CONduc ELEC S.A DE C.V	CDT-115	115.0	17.10	17.30	0.685+j3.823	0.527+j3.708	19.20	19.35	0.639+j3.750	0.526+j3.678
NESTLÉ MÉXICO S.A. DE C.V.	NST-115	115.0	14.97	10.69	1.124+j4.289	2.137+j9.522	16.85	11.89	1.063+j4.203	2.137+j9.524
NISSAN	NIS-115	115.0	11.41	8.49	1.191+j5.695	1.899+j11.687	13.09	9.54	1.044+j5.480	1.897+j11.674
NISSAN MANIOBRAS	NSS-115	115.0	11.69	8.62	1.162+j5.558	1.883+j11.599	13.43	9.69	1.016+j5.343	1.882+j11.585
NITROPISO	NTP-115	115.0	13.30	9.53	1.043+j4.881	2.049+j10.731	15.05	10.64	0.959+j4.757	2.046+j10.687
NIÑOS HÉROES	NHE-230	230.0	9.28	7.82	2.965+j14.005	4.862+j21.784	11.73	9.36	1.955+j12.301	4.804+j21.407
NOGALES	NGA-115	115.0	8.45	6.34	1.970+j7.611	3.400+j15.311	9.82	7.19	1.751+j7.228	3.388+j15.239
NOGALITO	NGT-115	115.0	3.99	3.75	4.843+j15.926	5.031+j19.205	4.78	4.35	4.022+j14.750	5.025+j19.127
NUCOR MANIOBRAS	NUM-115	115.0	7.63	7.38	2.319+j8.390	3.669+j8.881	8.58	8.26	2.191+j8.225	3.663+j8.825



Subestación Eléctrica	Acrónimo	Tensión (kV)	Corriente de cortocircuito (kA) e impedancias de Thévenin secuencias positiva y cero (Ω)							
			NCC mínimo 2026				NCC máximo 2026			
			3F	1F	ZTH(+)	ZTH(0)	3F	1F	ZTH(+)	ZTH(0)
NUEVA ITALIA	NVI-69	69.0	2.86	1.74	4.566+j13.147	9.442+j39.693	5.06	3.62	2.402+j8.312	5.417+j18.255
NUEVA JAUJA	JAU-115	115.0	6.71	5.60	2.315+j9.614	4.265+j15.233	8.37	6.69	1.788+j8.537	4.199+j14.730
NUEVA PEDREGAL	NPD-115	115.0	7.91	5.37	2.024+j8.146	3.459+j20.059	8.80	5.93	1.962+j8.061	3.460+j20.061
NUEVA PEDREGAL	PDL-115	115.0	10.53	7.56	1.555+j6.110	3.762+j13.220	11.83	8.41	1.473+j5.994	3.761+j13.193
NUEVO VALLARTA POTENCIA	NVT-230	230.0	3.27	4.21	10.681+j39.199	1.151+j13.406	4.09	5.18	7.974+j34.788	1.160+j13.277
NUEVO VALLARTA POTENCIA	NVT-115	115.0	5.77	7.61	3.126+j11.078	0.241+j3.184	7.09	9.23	2.424+j10.017	0.242+j3.141
NYPRO KANAAS SA CV	NKA-69	69.0	13.10	9.67	0.699+j2.961	1.612+j6.061	15.31	11.03	0.593+j2.799	1.601+j5.992
OBLATOS	OBL-69	69.0	11.57	7.82	0.812+j3.345	1.938+j8.176	15.10	12.66	0.580+j2.844	0.893+j4.490
OCOTLÁN	OCN-230	230.0	7.41	6.49	3.764+j17.526	3.951+j25.237	8.59	7.41	3.118+j16.720	3.804+j24.819
OCOTLÁN	OCN-115	115.0	12.96	13.33	1.318+j4.949	0.616+j4.681	14.88	15.30	1.155+j4.771	0.571+j4.487
OJO CALIENTE	OCL-110	115.0	5.65	5.88	4.237+j10.957	2.301+j10.225	6.80	6.89	3.566+j10.137	2.292+j10.155
OJO SECO	OJO-110	115.0	10.50	7.20	1.484+j6.149	4.281+j14.399	11.74	8.00	1.406+j6.060	4.276+j14.348
OJUELOS	OJU-115	115.0	1.92	1.97	11.470+j32.600	5.256+j32.136	2.12	2.20	11.408+j32.493	5.138+j30.568
OMEGA	OMG-115	115.0	8.37	6.40	1.584+j7.773	2.857+j14.969	9.49	7.16	1.446+j7.562	2.855+j14.936
OMYA MÉXICO S.A. DE C.V.	OMY-115	115.0	15.11	7.02	0.870+j4.307	8.621+j17.804	16.95	7.78	0.821+j4.229	8.624+j17.777
P. H. TROJES	TJS-115	115.0	1.82	1.21	12.843+j34.047	30.870+j85.973	2.18	1.74	11.045+j31.642	13.297+j57.382
PABELLÓN	PAB-115	115.0	7.28	5.50	2.159+j8.857	3.071+j17.710	8.22	6.17	2.015+j8.651	3.068+j17.674
PACHAMAMA MANIOBRAS	MPM-400	400.0	13.04	13.28	3.260+j17.409	2.453+j16.585	16.78	16.20	1.894+j15.021	2.470+j16.622
PAILERÍA	PAI-115	115.0	19.62	18.93	0.765+j3.297	0.694+j3.692	22.53	21.50	0.679+j3.170	0.690+j3.647
PALO ALTO	PAO-115	115.0	5.40	3.67	3.912+j11.658	6.589+j29.010	6.05	4.08	3.777+j11.464	6.580+j28.932
PÁNFILO NATERA	PFN-115	115.0	2.83	2.14	5.850+j22.715	21.967+j41.537	3.24	2.40	5.170+j21.912	21.959+j41.466
PARACHO II	POD-115	115.0	6.57	5.03	3.147+j9.603	6.752+j18.140	7.71	5.74	2.745+j9.064	6.737+j18.021
PARQUE DE TECNOLOGÍA	PTE-69	69.0	11.09	7.41	0.909+j3.474	1.750+j8.779	12.64	8.31	0.828+j3.368	1.739+j8.719
PARQUE INDUSTRIAL	PQI-69	69.0	15.87	12.69	0.669+j2.420	1.015+j4.282	18.23	14.31	0.594+j2.329	1.015+j4.261
PARQUE INDUSTRIAL COLINAS DE APASEO	API-115	115.0	6.26	4.18	3.277+j10.089	8.450+j25.083	6.93	4.61	3.229+j10.040	8.451+j25.092
PARQUE INDUSTRIAL COLINAS DE LEÓN	ICL-115	115.0	14.44	10.90	1.026+j4.483	1.805+j8.899	16.44	12.23	0.904+j4.349	1.797+j8.845
PARQUE INDUSTRIAL FINSA QUERETARO	PFQ-115	115.0	11.63	8.86	1.794+j5.422	1.459+j11.063	13.04	9.84	1.728+j5.328	1.460+j11.062
PARQUE INDUSTRIAL GUANAJUATO CENTRAL	IGC-115	115.0	13.06	10.09	1.201+j4.938	2.808+j9.162	14.98	11.38	1.078+j4.756	2.802+j9.099
PARQUE INNOVACIÓN	PQN-115	115.0	13.67	11.37	1.074+j4.735	1.648+j7.633	15.31	12.63	1.017+j4.659	1.647+j7.633
PARQUE PIEL	PAP-115	115.0	14.59	12.78	1.027+j4.432	1.589+j6.295	16.62	14.37	0.906+j4.300	1.586+j6.266
PARQUE SOLAR SANTIAGO MANIOBRAS	MSG-230	230.0	6.03	6.07	4.111+j21.635	3.469+j21.300	7.27	7.13	3.363+j19.815	3.424+j21.001
PÁTZCUARO NORTE	PTN-115	115.0	3.37	2.39	5.909+j18.766	15.287+j41.351	3.84	2.67	5.451+j18.231	15.270+j41.171
PÁTZCUARO SUR	PCS-115	115.0	3.39	2.39	5.864+j18.657	15.095+j41.511	3.84	2.67	5.461+j18.194	15.078+j41.358
PEDREGAL	PDG-115	115.0	7.12	6.35	2.469+j8.999	3.980+j12.089	8.00	7.10	2.310+j8.836	3.961+j11.968
PELETIZADORA ALZADA	PAL-115	115.0	3.33	2.34	5.785+j19.087	12.325+j43.400	3.86	2.80	5.319+j18.163	10.717+j38.811
PEMSA	PEM-115	115.0	10.54	7.82	2.019+j5.965	3.777+j12.301	11.82	8.72	1.936+j5.869	3.762+j12.206
PENAL	PNL-69	69.0	9.31	6.17	0.951+j4.173	2.594+j10.503	10.68	6.94	0.851+j4.012	2.592+j10.437
PÉNJAMO	PNJ-115	115.0	5.81	4.07	3.361+j10.916	7.680+j24.957	6.52	4.53	3.210+j10.729	7.651+j24.818
PERFORMANCE FIBERS MÉXICO	PER-115	115.0	14.50	17.19	1.173+j4.425	0.457+j2.392	16.27	19.19	1.119+j4.348	0.457+j2.397
PERIBAN	PBN-115	115.0	3.89	2.59	5.010+j16.327	13.957+j40.514	4.38	2.88	4.744+j15.999	13.956+j40.451



Subestación Eléctrica	Acrónimo	Tensión (kV)	Corriente de cortocircuito (kA) e impedancias de Thévenin secuencias positiva y cero (Ω)							
			NCC mínimo 2026				NCC máximo 2026			
			3F	1F	ZTH(+)	ZTH(0)	3F	1F	ZTH(+)	ZTH(0)
PETROQUÍMICA	INP-69	69.0	12.65	10.76	0.947+j3.004	1.533+j4.562	14.53	12.18	0.864+j2.890	1.533+j4.510
PEÑA COLORADA	PEC-115	115.0	6.32	4.43	2.549+j10.189	6.472+j23.072	7.42	5.03	2.309+j9.569	6.469+j22.984
PEÑASCO	PNS-115	115.0	11.21	7.79	1.235+j5.791	2.744+j13.451	12.58	8.65	1.162+j5.690	2.744+j13.447
PEÑITAS	PEN-115	115.0	3.32	2.21	5.133+j19.325	14.859+j47.752	3.89	2.52	4.548+j18.231	14.780+j47.143
PEÑUELAS	PEN-115	115.0	7.09	5.77	1.893+j9.176	2.835+j15.552	7.98	6.43	1.761+j8.982	2.830+j15.511
PINAR	PNR-69	69.0	16.29	11.47	0.535+j2.387	0.908+j5.457	18.96	13.01	0.450+j2.267	0.904+j5.411
PINZÁNDARO	PIZ-115	115.0	2.12	1.54	9.988+j29.653	15.386+j65.080	2.83	2.22	6.929+j24.874	11.343+j45.511
PIRELLI NEUMÁTICOS S.A. DE C.V.	PIR-115	115.0	6.34	4.90	2.752+j10.100	4.798+j19.101	7.09	5.45	2.623+j9.960	4.788+j19.030
PITILLAL	PTL-115	115.0	4.98	5.47	3.612+j12.843	1.784+j9.569	6.03	6.47	2.878+j11.759	1.778+j9.491
PM CIGATAM PS S. DE R.L. DE C.V.	CIG-69	69.0	12.77	8.40	0.833+j3.006	1.890+j7.771	14.62	9.43	0.749+j2.902	1.879+j7.715
PONCITLÁN	PNC-115	115.0	4.43	2.95	4.291+j14.350	9.920+j36.334	4.94	3.27	4.126+j14.183	9.876+j36.149
PORCELANITE SJI	POR-115	115.0	14.32	14.11	1.195+j4.479	0.866+j4.780	16.12	15.75	1.130+j4.386	0.866+j4.782
POTOSÍ SOLAR MANIOBRAS	MFP-400	400.0	6.35	5.89	4.435+j36.121	7.636+j44.298	7.82	6.95	3.070+j32.354	7.611+j44.156
POTRERILLOS	POS-400	400.0	13.87	14.03	3.475+j16.284	2.151+j15.961	17.79	17.12	2.114+j14.121	2.186+j15.810
POTRERILLOS	POS-230	230.0	15.14	17.64	1.825+j8.578	0.429+j5.061	18.07	20.66	1.360+j7.970	0.429+j5.041
POTRERILLOS	POS-115	115.0	21.06	20.48	0.566+j3.101	0.346+j3.412	24.26	23.27	0.450+j2.976	0.346+j3.381
POTRERO SOLAR MANIOBRAS	POM-400	400.0	9.72	9.64	3.860+j23.434	2.672+j24.222	12.14	11.50	2.412+j20.790	2.696+j24.278
PPG	PPG-115	115.0	15.83	14.10	0.800+j4.118	1.200+j5.611	17.75	15.72	0.752+j4.044	1.200+j5.581
PRADERA	PAD-115	115.0	3.10	2.61	6.538+j20.411	6.958+j32.685	4.20	3.60	4.224+j16.862	5.408+j25.539
PRAXAIR MÉXICO S.A. DE C.V. (GUADALAJARA)	PRA-69	69.0	10.77	7.33	1.148+j3.516	2.301+j8.610	12.25	8.21	1.064+j3.414	2.290+j8.552
PRIMERO DE MAYO	PMY-400	400.0	8.30	8.26	3.578+j27.601	3.428+j28.057	10.13	9.74	2.527+j24.953	3.411+j27.932
PROCTER & GAMBLE MANIOBRAS (IRAPUATO)	PGM-115	115.0	11.80	4.96	1.404+j5.450	7.673+j27.879	13.42	5.52	1.284+j5.289	7.665+j27.790
PROCTER & GAMBLE QUERETARO	P&G-115	115.0	5.74	3.80	3.463+j11.041	9.041+j27.806	6.35	4.19	3.415+j10.992	9.042+j27.815
PROD FARMACÉUTICOS COLLINS	CNS-69	69.0	16.00	11.64	0.647+j2.404	1.160+j5.157	18.45	13.13	0.569+j2.306	1.157+j5.135
PROD MET MEX DE POSTES SA CV	AMX-69	69.0	12.78	7.90	1.082+j2.922	1.663+j8.799	14.52	8.82	1.011+j2.844	1.653+j8.764
PRODUCTOS GATORADE	GAT-69	69.0	4.95	3.06	2.404+j7.674	5.732+j22.314	5.55	3.39	2.310+j7.552	5.727+j22.238
PROTEINOL	POT-115	115.0	7.34	4.93	3.157+j8.482	7.271+j21.065	8.17	5.46	3.082+j8.395	7.262+j21.008
PUEBLO NUEVO	PNV-115	115.0	6.41	4.34	2.842+j9.958	8.492+j23.788	7.19	4.83	2.712+j9.793	8.470+j23.635
PUENTE GRANDE	PGN-69	69.0	7.72	6.89	1.261+j5.001	0.944+j6.988	8.91	8.23	1.126+j4.789	0.763+j6.115
PUENTE GRANDE DOS	PTD-115	115.0	2.44	0.96	7.224+j26.227	50.784+j143.828	2.71	1.06	6.975+j26.058	50.765+j143.741
PUENTE GRANDE DOS	PTD-69	69.0	7.78	6.94	1.251+j4.963	0.928+j6.938	8.97	8.28	1.117+j4.754	0.753+j6.078
PUERTA QUERÉTARO	PQO-115	115.0	12.16	8.66	1.285+j5.307	2.901+j11.729	13.52	9.58	1.245+j5.256	2.901+j11.713
PUERTO INTERIOR	PTI-115	115.0	6.90	5.42	2.500+j9.297	4.084+j17.036	7.72	6.03	2.372+j9.155	4.074+j16.964
PUERTO INTERIOR (FONDEPORT)	FDP-115	115.0	9.98	8.45	1.421+j6.498	2.998+j9.838	12.24	9.92	1.202+j5.846	2.993+j9.734
PUNTA DE MITA	PMI-115	115.0	3.52	2.87	5.313+j18.100	6.197+j31.007	4.14	3.28	4.583+j17.047	6.196+j30.952
PURÉPECHA POTENCIA	PRH-400	400.0	9.32	8.02	4.211+j24.417	5.671+j36.287	11.77	9.54	2.574+j21.434	5.720+j36.204
PURÉPECHA POTENCIA	PRH-115	115.0	17.10	16.78	0.627+j3.833	0.437+j4.076	19.87	19.13	0.482+j3.644	0.439+j4.077
PURUANDIRO	PUR-115	115.0	3.00	1.95	7.190+j20.933	17.382+j55.001	3.47	2.57	6.526+j19.992	10.958+j41.972
PURUARÁN	PUU-69	69.0	1.33	0.71	13.601+j26.702	32.956+j102.753	1.87	1.16	9.884+j21.311	21.262+j63.433
QUERÉTARO I	QRO-230	230.0	18.76	19.58	1.418+j6.933	0.725+j6.165	21.93	22.43	1.207+j6.550	0.737+j6.176



Subestación Eléctrica	Acrónimo	Tensión (kV)	Corriente de cortocircuito (kA) e impedancias de Thévenin secuencias positiva y cero (Ω)							
			NCC mínimo 2026				NCC máximo 2026			
			3F	1F	ZTH(+)	ZTH(0)	3F	1F	ZTH(+)	ZTH(0)
QUERÉTARO I	QRO-115	115.0	28.22	34.22	0.500+j2.299	0.086+j1.120	32.25	38.77	0.446+j2.221	0.087+j1.124
QUERÉTARO INDUSTRIAL	QRI-110	115.0	14.42	14.48	1.144+j4.462	0.703+j4.499	16.20	16.16	1.082+j4.376	0.703+j4.502
QUERÉTARO MANIOBRAS	QMR-110	115.0	14.96	16.08	1.020+j4.319	0.457+j3.494	16.79	17.94	0.963+j4.241	0.457+j3.498
QUERÉTARO NORTE	QRN-115	115.0	14.76	14.03	1.303+j4.304	0.827+j5.170	16.58	15.63	1.247+j4.224	0.827+j5.170
QUERÉTARO ORIENTE	QRE-115	115.0	12.03	10.33	1.538+j5.301	0.560+j8.324	13.46	11.48	1.481+j5.220	0.560+j8.321
QUERÉTARO PONIENTE	QPE-115	115.0	11.97	8.78	1.180+j5.417	1.792+j11.463	13.33	9.73	1.133+j5.359	1.779+j11.431
QUERÉTARO POTENCIA	QRP-400	400.0	19.99	18.69	1.918+j11.390	1.623+j13.841	24.38	21.93	1.273+j10.342	1.663+j13.786
QUERÉTARO POTENCIA	QRP-230	230.0	23.89	27.99	0.955+j5.475	0.235+j3.113	27.87	32.21	0.752+j5.186	0.236+j3.115
QUERÉTARO POTENCIA	QRP-115	115.0	28.24	35.38	0.364+j2.323	0.045+j0.930	31.84	39.65	0.316+j2.272	0.045+j0.939
QUERÉTARO POTENCIA MANIOBRAS	QPM-400	400.0	22.14	20.34	1.727+j10.287	2.002+j13.001	26.94	23.89	1.151+j9.358	2.018+j12.844
QUERÉTARO SUR	QRS-115	115.0	18.45	12.78	0.646+j3.540	1.484+j8.257	20.64	14.17	0.598+j3.487	1.483+j8.258
QUINCEO	QNC-115	115.0	9.60	9.13	1.797+j6.677	1.730+j7.796	10.79	10.23	1.678+j6.559	1.713+j7.687
RANCHO GRANDE	RAG-115	115.0	2.60	1.80	8.195+j24.151	17.452+j56.820	2.90	2.00	7.952+j23.890	17.449+j56.795
REXAM BEVERAGE CAN AM S.A.	RXM-115	115.0	15.86	14.97	1.021+j4.059	0.934+j4.852	17.86	16.70	0.962+j3.974	0.934+j4.854
REXEL	RES-115	115.0	6.71	4.44	2.849+j9.474	7.317+j23.937	7.51	4.93	2.779+j9.325	7.320+j23.887
REYMA	RYM-115	115.0	14.25	11.29	1.025+j4.544	1.977+j8.087	16.21	12.66	0.905+j4.413	1.974+j8.060
RÍO GRANDE	RGR-110	115.0	1.43	0.91	17.687+j43.024	45.367+j117.094	1.58	1.01	17.441+j42.786	45.364+j117.068
RIO GRANDE II	RIG-115	115.0	1.51	0.96	15.913+j41.135	42.027+j110.572	1.67	1.06	15.667+j40.896	42.025+j110.546
ROMITA	RTA-115	115.0	8.36	6.26	1.670+j7.760	3.128+j15.628	9.42	6.98	1.547+j7.601	3.118+j15.556
S.I.A.P.A. (TOLUQUILLA)	SPB-69	69.0	16.56	11.56	0.661+j2.314	1.244+j5.390	19.11	13.02	0.583+j2.218	1.242+j5.372
S.I.A.P.A. PLANTA 2	STO-69	69.0	4.77	3.41	2.222+j8.058	4.759+j17.743	5.36	3.80	2.120+j7.895	4.746+j17.576
S.I.A.P.A. PTA BOMBEO STA CRUZ	SCH-69	69.0	2.72	1.53	4.606+j13.925	12.329+j47.420	3.02	1.69	4.511+j13.806	12.324+j47.344
SAHUAYO	SHY-115	115.0	7.54	5.19	1.979+j8.581	4.560+j20.278	8.50	5.78	1.822+j8.397	4.550+j20.214
SALAHUA	SLH-115	115.0	9.64	7.51	1.496+j6.724	4.016+j12.132	11.77	8.75	1.277+j6.072	4.010+j12.028
SALAMANCA	SLM-400	400.0	18.44	18.26	2.536+j12.262	1.678+j12.795	26.63	27.63	1.213+j9.463	0.768+j8.459
SALAMANCA	SLM-230	230.0	24.91	28.30	1.059+j5.225	0.300+j3.415	34.32	39.40	0.576+j4.217	0.169+j2.608
SALAMANCA	SLM-115	115.0	22.75	25.47	0.514+j2.873	0.127+j1.986	29.38	33.14	0.338+j2.463	0.121+j1.637
SALAMANCA COGENERACIÓN	SCG-230	230.0	25.00	28.22	1.065+j5.203	0.331+j3.488	34.23	38.69	0.589+j4.226	0.232+j2.783
SALAMANCA DOS	SMD-400	400.0	18.21	17.96	2.638+j12.401	1.900+j13.081	25.70	25.14	1.313+j9.795	1.446+j10.437
SALAMANCA DOS	SMD-230	230.0	11.97	9.26	2.111+j10.893	4.984+j20.245	14.46	10.83	1.632+j9.969	4.912+j19.677
SALAMANCA DOS	SMD-115	115.0	20.27	19.93	0.541+j3.231	0.366+j3.424	24.25	23.54	0.417+j2.982	0.351+j3.269
SALAMANCA NORTE	SLN-115	115.0	15.26	10.33	0.992+j4.235	2.743+j10.231	18.46	12.00	0.834+j3.868	2.742+j9.977
SALAMANCA PONIENTE	SPO-115	115.0	16.90	14.34	0.679+j3.870	1.086+j5.929	20.01	16.65	0.551+j3.608	1.073+j5.766
SALAMANCA SUR	SSU-110	115.0	17.62	19.94	0.762+j3.691	0.174+j2.464	21.44	24.50	0.609+j3.352	0.165+j2.133
SALERO	SLR-400	400.0	6.99	5.03	4.801+j32.686	15.277+j70.206	8.15	5.69	3.880+j30.916	15.244+j70.057
SALINAS	SNA-115	115.0	1.56	0.97	11.309+j41.070	61.777+j104.817	1.75	1.08	10.625+j40.274	61.768+j104.746
SALITRE	STE-115	115.0	3.66	2.21	4.271+j17.617	7.139+j53.420	4.08	2.45	4.124+j17.441	7.121+j53.376
SALVATIERRA	SVT-110	115.0	5.59	3.64	3.206+j11.433	10.341+j29.238	6.24	4.03	3.089+j11.294	10.341+j29.204
SAMSUNG	SAM-115	115.0	8.98	8.12	2.086+j7.093	2.292+j9.486	10.04	9.02	2.014+j6.991	2.293+j9.481
SAN AGUSTÍN	SAG-69	69.0	11.89	7.70	0.918+j3.222	2.025+j8.588	13.52	8.59	0.839+j3.130	2.025+j8.580



Subestación Eléctrica	Acrónimo	Tensión (kV)	Corriente de cortocircuito (kA) e impedancias de Thévenin secuencias positiva y cero (Ω)							
			NCC mínimo 2026				NCC máximo 2026			
			3F	1F	ZTH(+)	ZTH(0)	3F	1F	ZTH(+)	ZTH(0)
SAN ANDRÉS	ADE-115	115.0	9.08	7.34	1.955+j7.043	2.748+j12.201	10.28	8.26	1.791+j6.874	2.705+j12.020
SAN ANTONIO	SAN-115	115.0	7.73	7.60	2.410+j8.238	1.278+j9.014	8.84	8.73	2.220+j7.962	1.268+j8.931
SAN CARLOS	SCA-115	115.0	10.00	7.54	1.706+j6.416	2.959+j12.814	11.26	8.39	1.585+j6.288	2.957+j12.798
SAN CLEMENTE	SCM-115	115.0	1.58	1.09	12.721+j40.136	38.814+j89.952	2.01	1.29	9.247+j35.084	38.815+j89.978
SAN CLEMENTE	SCM-69	69.0	1.02	0.01	7.118+j38.5451	2.208+j-14,886.32	11.31	0.01	5.035+j32.95312	2.208+j-14,886.321
SAN DIEGO PEÑUELAS	SDP-115	115.0	4.63	2.88	3.617+j13.880	10.166+j39.090	5.12	3.19	3.573+j13.798	10.151+j38.915
SAN FELIPE	SFL-115	115.0	1.89	1.25	10.704+j33.446	31.623+j83.706	2.09	1.37	10.654+j33.367	31.629+j83.628
SAN FRANCISCO DE LOS ROMO	SFR-115	115.0	10.46	7.46	1.316+j6.212	2.447+j13.787	11.85	8.34	1.185+j6.049	2.446+j13.779
SAN FRANCISCO DEL RINCÓN	SFQ-110	115.0	9.90	6.90	1.410+j6.558	3.235+j15.094	11.12	7.68	1.293+j6.438	3.235+j15.064
SAN GASPAR	GPR-69	69.0	21.69	22.26	0.323+j1.808	0.191+j1.687	26.62	26.77	0.226+j1.631	0.188+j1.607
SAN ILDEFONSO	SFS-115	115.0	27.21	21.55	0.458+j2.397	0.840+j4.279	30.56	24.02	0.421+j2.353	0.840+j4.255
SAN JERÓNIMO	SJE-115	115.0	2.49	1.76	8.732+j25.160	18.165+j57.365	2.78	1.94	8.493+j24.890	18.163+j57.340
SAN JORGE	SAJ-115	115.0	3.26	2.11	5.438+j19.623	13.859+j51.907	3.62	2.33	5.272+j19.456	13.814+j51.721
SAN JORGE	SAJ-69	69.0	7.67	5.22	1.540+j4.959	3.022+j12.159	8.68	5.83	1.447+j4.837	3.018+j12.083
SAN JOSÉ DE GRACIA	JOG-115	115.0	3.10	1.98	7.693+j19.982	18.445+j54.528	3.45	2.19	7.532+j19.788	18.446+j54.499
SAN JOSÉ ITURBIDE	SJI-115	115.0	8.86	7.28	1.833+j7.267	2.628+j12.081	10.51	8.38	1.570+j6.769	2.615+j11.981
SAN JUAN ZITÁCUARO	SJZ-115	115.0	6.05	3.97	3.344+j10.448	8.152+j26.981	6.77	4.41	3.266+j10.280	8.156+j26.928
SAN JUAN DE LOS LAGOS	JDL-115	115.0	6.97	5.66	2.376+j9.229	4.794+j15.387	7.80	6.29	2.244+j9.095	4.791+j15.379
SAN JUAN DE LOS LAGOS II	SJD-230	230.0	7.55	7.01	3.288+j17.290	2.914+j21.488	8.73	7.94	2.747+j16.499	2.927+j21.555
SAN JUAN DE LOS LAGOS II	SJD-115	115.0	10.65	11.67	1.100+j6.137	0.462+j4.592	12.01	13.07	0.970+j6.004	0.458+j4.585
SAN JUAN DEL RÍO	SJR-110	115.0	17.48	15.27	0.712+j3.731	0.876+j5.379	19.60	17.06	0.670+j3.665	0.868+j5.317
SAN JUAN DEL RÍO MANIOBRAS	SJM-110	115.0	17.21	15.17	0.692+j3.795	1.105+j5.298	19.36	16.95	0.644+j3.718	1.102+j5.263
SAN JUAN DEL RIO ORIENTE	SJO-115	115.0	13.82	10.51	1.082+j4.680	2.425+j9.027	15.43	11.70	1.041+j4.616	2.410+j8.952
SAN JUAN POTENCIA	SJP-230	230.0	12.33	11.22	1.752+j10.628	1.670+j13.866	14.57	12.98	1.473+j9.916	1.708+j13.591
SAN JUAN POTENCIA	SJP-115	115.0	20.73	25.60	0.536+j3.158	0.113+j1.372	23.44	28.92	0.486+j3.078	0.113+j1.341
SAN LUIS DE LA PAZ	SAP-110	115.0	16.88	14.49	0.674+j3.875	0.981+j5.798	19.08	16.38	0.622+j3.778	0.969+j5.634
SAN LUIS DE LA PAZ II	SPA-230	230.0	20.34	21.18	0.961+j6.458	0.704+j5.709	23.50	24.32	0.825+j6.161	0.681+j5.546
SAN LUIS DE LA PAZ II	SPA-115	115.0	21.81	22.32	0.405+j3.017	0.231+j2.827	24.71	25.56	0.361+j2.934	0.217+j2.652
SAN LUIS DOS	SLD-230	230.0	14.16	14.32	1.734+j9.214	1.564+j8.945	16.60	16.49	1.433+j8.682	1.556+j8.862
SAN LUIS DOS	SLD-115	115.0	18.95	19.94	0.619+j3.448	0.301+j2.980	21.63	22.63	0.542+j3.333	0.292+j2.922
SAN LUIS I	SLP-230	230.0	14.38	14.61	2.070+j9.002	1.308+j8.718	17.13	17.06	1.713+j8.352	1.306+j8.562
SAN LUIS I (BUS A)	SLP-115	115.0	22.99	26.13	0.642+j2.815	0.205+j1.848	26.61	30.03	0.556+j2.688	0.201+j1.805
SAN LUIS I (BUS B)	SLP-115B	115.0	21.80	23.43	0.675+j2.970	0.314+j2.401	25.16	26.83	0.589+j2.842	0.307+j2.350
SAN LUIS INDUSTRIAL	SLI-110	115.0	17.55	15.08	0.868+j3.683	1.144+j5.525	20.05	17.01	0.782+j3.558	1.140+j5.481
SAN LUIS NORTE	SNE-115	115.0	8.88	5.94	1.532+j7.319	4.424+j18.046	9.92	6.58	1.457+j7.220	4.425+j18.044
SAN LUIS ORIENTE	SLO-110	115.0	14.66	11.61	0.983+j4.422	1.873+j7.874	16.62	13.01	0.900+j4.301	1.869+j7.834
SAN LUIS PONIENTE	SLW-110	115.0	10.40	7.21	1.479+j6.212	3.525+j14.448	11.66	8.00	1.401+j6.105	3.526+j14.434
SAN LUIS PROGRESO	SPR-110	115.0	12.03	9.03	1.274+j5.371	2.480+j10.734	13.56	10.08	1.193+j5.253	2.475+j10.693
SAN MARTIN	SMR-230	230.0	10.45	8.89	2.672+j12.424	4.120+j18.937	12.91	10.48	1.844+j11.160	4.086+j18.757
SAN MIGUEL	MIG-115	115.0	3.44	2.32	4.856+j18.657	12.075+j45.746	3.82	2.56	4.724+j18.529	12.071+j45.738



Subestación Eléctrica	Acrónimo	Tensión (kV)	Corriente de cortocircuito (kA) e impedancias de Thévenin secuencias positiva y cero (Ω)							
			NCC mínimo 2026				NCC máximo 2026			
			3F	1F	ZTH(+)	ZTH(0)	3F	1F	ZTH(+)	ZTH(0)
SAN MIGUEL ALLENDE SUR	SMS-115	115.0	9.03	6.10	2.043+j7.062	4.975+j17.268	10.07	6.75	1.981+j6.976	4.975+j17.256
SAN MIGUEL DE ALLENDE	MAL-115	115.0	10.96	7.92	1.487+j5.875	2.779+j12.735	12.26	8.79	1.424+j5.785	2.778+j12.725
SAN NICOLÁS	SNS-69	69.0	4.79	2.99	2.381+j7.978	5.811+j22.597	5.36	3.32	2.287+j7.854	5.807+j22.521
SAN PEDRO	PDR-115	115.0	13.14	10.33	0.991+j4.954	2.077+j8.946	14.84	11.55	0.911+j4.837	2.071+j8.900
SAN RAFAEL MANIOBRAS	SRM-115	115.0	2.81	2.10	5.899+j22.888	18.250+j44.200	3.73	3.45	4.106+j19.161	5.132+j23.702
SAN ROQUE	SRQ-115	115.0	11.88	8.66	1.128+j5.472	2.262+j11.610	13.41	9.66	1.012+j5.351	2.261+j11.579
SAN VICENTE	VTE-115	115.0	5.32	6.55	3.390+j12.019	1.069+j5.355	6.47	7.85	2.681+j10.959	1.048+j5.260
SANMINA-SCI SYSTEMS DE MEXICO	SCI-69	69.0	10.34	6.85	1.004+j3.720	2.273+j9.468	11.68	7.63	0.933+j3.634	2.271+j9.447
SANMINA-SCISYSTEMS MÉXICO	SCR-115	115.0	10.66	7.81	1.402+j6.071	3.359+j12.618	12.02	8.70	1.282+j5.941	3.358+j12.592
SANMINA-SCISYSTEMS MÉXICO	SCR-69	69.0	13.80	10.28	0.782+j2.779	1.386+j5.693	15.77	11.53	0.707+j2.688	1.385+j5.672
SANTA CRUZ	SCZ-115	115.0	6.00	4.02	3.613+j10.454	8.460+j26.074	6.67	4.45	3.538+j10.368	8.451+j26.017
SANTA CRUZ	SCU-69	69.0	14.61	10.73	0.723+j2.628	1.335+j5.532	16.78	12.06	0.643+j2.531	1.335+j5.521
SANTA FE	STF-230	230.0	10.98	10.19	2.204+j11.886	2.078+j14.771	12.47	11.40	1.994+j11.546	2.107+j14.873
SANTA FE	STF-115	115.0	16.78	19.38	0.801+j3.875	0.211+j2.367	19.00	21.79	0.735+j3.774	0.210+j2.364
SANTA FE II	SFD-115	115.0	7.00	5.62	2.467+j9.161	3.838+j16.026	7.84	6.25	2.338+j9.020	3.828+j15.954
SANTA FÉ IV	STC-115	115.0	7.54	5.87	2.277+j8.512	3.846+j15.838	8.45	6.54	2.150+j8.367	3.836+j15.766
SANTA FE TRES	SFT-115	115.0	6.90	5.37	2.484+j9.299	4.146+j17.366	7.72	5.97	2.355+j9.157	4.136+j17.295
SANTA MARÍA	STM-400	400.0	19.00	17.14	2.122+j11.966	2.747+j15.851	24.01	20.86	1.295+j10.499	2.687+j15.123
SANTA MARÍA	STM-115	115.0	25.05	24.11	0.441+j2.614	0.413+j2.931	28.52	27.30	0.370+j2.534	0.406+j2.872
SANTA MARÍA	SNM-115	115.0	8.13	7.01	2.104+j7.894	2.564+j11.820	9.10	7.82	1.983+j7.776	2.547+j11.709
SANTIAGO	SNG-115	115.0	8.57	5.69	1.698+j7.561	4.603+j18.952	9.57	6.30	1.620+j7.458	4.604+j18.943
SANTIAGO IXCUINTLA	SNI-115	115.0	4.16	2.90	3.841+j15.482	11.345+j34.924	4.95	3.34	3.265+j14.377	11.267+j34.317
SANTIAGO UNDAMEO	SUN-115	115.0	5.53	4.49	3.319+j11.545	7.074+j19.072	6.20	5.01	3.131+j11.348	7.058+j18.957
SANTIAGUITO	STG-115	115.0	9.62	8.27	1.802+j6.664	2.429+j9.992	10.76	9.22	1.702+j6.568	2.418+j9.910
SAPAL PROC AGUAS RESID	SPL-115	115.0	11.40	9.06	1.346+j5.668	3.042+j9.892	12.88	10.12	1.226+j5.537	3.040+j9.866
SATÉLITE	SEI-115	115.0	11.37	8.35	1.215+j5.710	2.172+j11.992	12.81	9.31	1.131+j5.588	2.168+j11.943
SATÉLITE	SAT-115	115.0	15.27	12.42	1.019+j4.229	1.775+j7.122	17.13	13.82	0.964+j4.152	1.769+j7.110
SAYULA	SYL-115	115.0	3.41	2.79	5.664+j18.627	11.122+j30.545	3.82	3.11	5.421+j18.338	11.077+j30.281
SCHAEFFLER MANIOBRAS	SFM-115	115.0	7.60	4.41	1.820+j8.546	6.690+j26.837	8.54	4.90	1.695+j8.386	6.683+j26.776
SENDERO	SDE-115	115.0	11.32	8.60	1.327+j5.716	2.666+j11.110	12.73	9.59	1.246+j5.598	2.661+j11.066
SERVICIOS AGUAMILPA	SEA-110	115.0	2.18	1.59	7.820+j29.501	25.102+j59.238	2.76	2.35	6.025+j25.776	11.971+j38.732
SERVICIOS EL CAJÓN	SCJ-115	115.0	2.47	1.88	6.598+j26.110	14.129+j50.337	2.78	2.10	6.302+j25.488	14.097+j49.944
SERVICIOS LA YESCA	SLY-115	115.0	0.78	0.61	23.307+j81.515	55.344+j147.203	0.86	0.67	23.329+j81.550	55.246+j146.515
SHULMANN	SHU-115	115.0	18.44	17.18	0.772+j3.516	0.831+j4.317	21.11	19.44	0.688+j3.390	0.828+j4.274
SIBASA	SIB-230	230.0	13.13	11.34	2.150+j9.881	2.925+j14.624	15.44	13.06	1.775+j9.291	2.890+j14.349
SIDERÚRGICA GUADALAJARA	SGG-161	161.0	3.11	2.57	6.878+j29.044	12.100+j47.481	3.50	2.86	6.483+j28.444	12.092+j47.289
SIEMENS	SIE-69	69.0	9.80	6.14	1.074+j3.922	2.496+j11.059	11.06	6.83	0.996+j3.836	2.496+j11.054
SILAO	SIL-115	115.0	13.94	13.79	1.189+j4.613	0.920+j4.833	15.94	15.65	1.064+j4.456	0.908+j4.759
SILAO POTENCIA	SIP-230	230.0	13.12	12.85	2.386+j9.836	1.664+j10.659	15.67	14.96	1.896+j9.130	1.645+j10.519
SILAO POTENCIA	SIP-115	115.0	16.99	19.89	0.895+j3.805	0.211+j2.203	19.61	22.87	0.773+j3.644	0.201+j2.131



Subestación Eléctrica	Acrónimo	Tensión (kV)	Corriente de cortocircuito (kA) e impedancias de Thévenin secuencias positiva y cero (Ω)							
			NCC mínimo 2026				NCC máximo 2026			
			3F	1F	ZTH(+)	ZTH(0)	3F	1F	ZTH(+)	ZTH(0)
SIPOSA (GASA)	GAS-115	115.0	14.64	12.14	1.013+j4.421	1.239+j7.244	16.63	13.62	0.926+j4.294	1.235+j7.202
SISTEMAS JUÁREZ	SIS-69	69.0	19.76	15.38	0.532+j1.945	0.789+j3.659	23.04	17.47	0.453+j1.848	0.786+j3.638
SOLEDAD DE GRACIANO SÁNCHEZ	SGS-110	115.0	12.11	9.05	1.027+j5.387	1.761+j10.909	13.62	10.08	0.951+j5.278	1.757+j10.879
STIVA LEON	STI-115	115.0	3.88	2.87	5.130+j16.347	11.984+j32.974	4.51	3.26	4.486+j15.544	11.950+j32.701
SUBESTACIÓN PIQ	SPQ-115	115.0	12.98	9.91	1.410+j4.918	1.907+j9.703	14.61	11.03	1.339+j4.815	1.907+j9.697
TABACALERA	TBK-110	115.0	7.10	5.91	2.141+j9.103	3.584+j14.541	8.94	7.12	1.614+j8.010	3.514+j14.014
TACUBAYA	TYA-115	115.0	5.57	3.91	3.451+j11.406	9.343+j25.408	6.26	4.36	3.281+j11.195	9.332+j25.329
TALA	TLA-69	69.0	3.43	3.67	3.960+j10.910	0.973+j9.537	5.27	5.14	2.146+j8.033	1.024+j8.962
TALA ELECTRIC	ELT-69	69.0	3.31	3.66	4.040+j11.332	0.651+j8.813	5.12	5.17	2.149+j8.290	0.717+j8.363
TALPA	TPA-69	69.0	0.49	0.01	28.677+j75.236	2.295+j-14.897.307	70.71	0.01	17.917+j59.120	2.295+j-14.897.307
TAMARINDOS	TMI-115	115.0	5.85	7.80	3.112+j10.912	0.319+j2.865	7.22	9.52	2.393+j9.828	0.313+j2.786
TAMAZULA	TAZ-115	115.0	2.80	2.03	6.303+j22.893	12.052+j49.007	3.12	2.26	6.061+j22.578	11.996+j48.664
TANGAMANGA	TMG-115	115.0	10.15	7.07	1.561+j6.352	3.850+j14.588	11.38	7.85	1.482+j6.242	3.850+j14.569
TANGANCÍCUARO	TGR-115	115.0	8.50	7.91	2.042+j7.538	2.907+j9.096	9.71	8.95	1.854+j7.287	2.892+j9.005
TANQUE TENORIO (DEGREMONT)	TQT-115	115.0	17.67	15.14	0.847+j3.661	0.946+j5.573	20.21	17.07	0.761+j3.534	0.943+j5.530
TAPALPA	TLP-115	115.0	2.86	2.26	6.592+j22.294	14.034+j39.086	3.19	2.52	6.350+j22.007	13.976+j38.831
TAPEIXTLES	TAP-115	115.0	13.83	14.13	0.838+j4.727	0.748+j4.430	17.74	17.38	0.626+j4.069	0.734+j4.308
TAPEIXTLES	TAP-69	69.0	3.82	5.04	0.840+j10.393	0.099+j2.843	4.53	6.01	0.708+j9.652	0.088+j2.504
TAPEIXTLES POTENCIA	TPX-400	400.0	11.54	13.55	2.614+j19.835	0.961+j11.091	23.35	25.70	0.718+j10.855	0.945+j7.847
TAPEIXTLES POTENCIA	TPX-230	230.0	12.79	15.86	1.296+j10.305	0.293+j4.335	19.23	22.86	0.581+j7.572	0.290+j3.969
TAPEIXTLES POTENCIA	TPX-115	115.0	18.38	20.56	0.472+j3.582	0.192+j2.458	24.89	26.66	0.273+j2.921	0.188+j2.343
TARANDACUAO	TDC-115	115.0	2.88	1.82	6.427+j22.155	21.437+j59.661	3.21	2.01	6.200+j21.877	21.438+j59.637
TARETAN	TAR-69	69.0	1.71	0.65	7.135+j22.158	39.705+j130.168	2.28	1.45	5.777+j18.351	13.607+j50.243
TARIMBARO	TRB-115	115.0	7.01	5.42	2.609+j9.105	5.560+j16.945	7.82	6.01	2.507+j9.002	5.552+j16.870
TECHNICOLOR MEXICANA S. DE R.L. DE C.V.	TNI-69	69.0	13.11	8.68	0.809+j2.929	1.814+j7.481	15.02	9.76	0.725+j2.825	1.803+j7.425
TECNOLÓGICO	TAG-115	115.0	15.04	12.22	0.902+j4.322	1.347+j7.347	17.43	13.83	0.760+j4.121	1.346+j7.348
TECOLAPA	TOA-115	115.0	6.06	4.49	3.186+j10.483	8.089+j20.969	7.08	5.10	2.931+j9.888	8.086+j20.871
TECOLOTLAN	TCT-115	115.0	2.45	1.77	7.676+j25.969	22.829+j54.239	2.97	2.03	6.170+j23.780	22.830+j54.266
TECOMÁN	TEC-115	115.0	5.18	3.68	3.628+j12.285	10.216+j26.650	6.00	4.16	3.376+j11.686	10.213+j26.554
TECOMÁN SUR	TES-115	115.0	4.21	2.96	4.468+j15.111	13.203+j33.436	4.83	3.32	4.215+j14.514	13.201+j33.341
TECOMATES	TCS-115	115.0	1.71	1.26	11.257+j37.202	20.751+j77.793	1.91	1.40	10.986+j36.603	20.737+j77.672
TECOZAUTLA	TCZ-115	115.0	2.25	1.24	9.084+j28.115	33.521+j96.430	2.48	1.36	9.042+j28.068	33.521+j96.412
TECUALA	TEL-115	115.0	1.08	0.72	22.788+j56.842	61.364+j141.914	1.22	0.80	22.170+j55.813	61.279+j141.295
TECUAN	TCN-115	115.0	6.70	4.55	2.669+j9.551	4.959+j23.437	7.56	5.07	2.527+j9.329	4.960+j23.365
TEJEDA	TJD-115	115.0	14.26	18.22	1.012+j4.544	0.341+j1.586	15.98	20.34	0.957+j4.471	0.341+j1.594
TEOCALTICHE	TEO-115	115.0	4.50	3.07	3.752+j14.260	9.294+j34.183	5.01	3.39	3.622+j14.129	9.290+j34.176
TEOCUITATLAN	TTL-115	115.0	2.59	2.29	6.574+j24.818	8.123+j34.560	2.88	2.56	6.338+j24.530	7.937+j34.103
TEPALCATEPEC DOS	TPD-115	115.0	1.53	1.07	13.539+j41.272	27.739+j94.631	2.16	1.90	8.263+j32.743	10.127+j46.861
TEPATITLÁN	TPT-115	115.0	5.72	3.55	3.401+j11.102	9.626+j31.417	6.39	3.94	3.245+j10.964	9.607+j31.330
TEPETONGO	TGO-115	115.0	1.32	0.94	15.512+j47.982	38.858+j104.192	1.46	1.04	15.217+j47.622	38.847+j104.104



Subestación Eléctrica	Acrónimo	Tensión (kV)	Corriente de cortocircuito (kA) e impedancias de Thévenin secuencias positiva y cero (Ω)							
			NCC mínimo 2026				NCC máximo 2026			
			3F	1F	ZTH(+)	ZTH(0)	3F	1F	ZTH(+)	ZTH(0)
TEPEYAC	TPY-115	115.0	17.65	12.24	0.747+j3.686	1.850+j8.549	19.69	13.57	0.709+j3.641	1.850+j8.531
TEPIC DOS	TED-400	400.0	7.76	7.80	6.338+j29.080	4.324+j28.941	18.02	18.43	1.252+j14.044	1.955+j12.996
TEPIC DOS	TED-230	230.0	8.52	10.28	3.018+j15.291	0.783+j7.553	13.69	16.40	1.056+j10.615	0.418+j5.356
TEPIC DOS	TED-115	115.0	11.48	13.34	0.995+j5.696	0.224+j3.375	16.02	18.40	0.467+j4.536	0.153+j2.781
TEPIC INDUSTRIAL	TID-110	115.0	7.80	6.72	1.933+j8.295	2.861+j12.264	9.92	8.17	1.409+j7.224	2.796+j11.771
TEPIC UNO	TES-115	115.0	8.88	8.21	1.579+j7.306	1.856+j9.108	11.61	10.27	1.054+j6.199	1.786+j8.567
TEQUILA	TQA-115	115.0	0.94	0.58	24.117+j66.369	49.077+j193.600	1.30	1.04	14.103+j54.197	19.194+j97.889
TEQUILA	TQA-69	69.0	1.97	1.12	7.857+j18.582	17.341+j63.854	3.01	2.22	4.332+j13.918	6.600+j29.311
TEQUISQUIAPAN	TEQ-115	115.0	8.29	4.56	1.939+j7.769	10.654+j25.674	9.21	5.03	1.894+j7.704	10.657+j25.653
TERMINAL DE GAS MANZANILLO	TGM-115	115.0	12.19	9.78	0.845+j5.379	1.750+j9.312	15.34	11.60	0.639+j4.719	1.747+j9.208
TERMOENVASES EXPANDIBLES	TER-115	115.0	15.75	14.10	0.942+j4.109	1.239+j5.554	17.98	15.90	0.821+j3.977	1.236+j5.526
TERRAPLENA	TRP-115	115.0	6.85	7.85	1.585+j9.569	1.135+j5.863	8.10	9.17	1.363+j8.918	1.121+j5.742
TESISTAN	TSN-400	400.0	13.93	14.50	4.040+j16.074	2.097+j14.513	24.00	22.63	1.387+j10.492	1.957+j12.355
TESISTAN	TSN-230	230.0	16.40	19.08	1.885+j7.874	0.461+j4.699	23.68	26.20	0.896+j6.103	0.439+j4.368
TESISTAN	TSN-69	69.0	31.13	30.76	0.223+j1.260	0.106+j1.325	38.50	36.96	0.137+j1.130	0.102+j1.277
TESISTÁN (BUS B)	TSN-69B	69.0	20.09	22.23	0.241+j1.968	0.063+j1.412	25.45	27.46	0.129+j1.717	0.063+j1.342
TETRAPAK	TTK-115	115.0	14.96	9.28	0.876+j4.350	6.842+j10.967	16.69	10.27	0.828+j4.296	6.841+j10.968
TISAMATIC	TIS-115	115.0	18.89	18.33	0.793+j3.424	0.621+j3.796	21.66	20.78	0.707+j3.297	0.618+j3.754
TLAJOMULCO POTENCIA	TLJ-400	400.0	14.38	14.46	3.563+j15.661	2.346+j15.635	20.70	18.93	1.634+j12.163	2.384+j15.521
TLAJOMULCO POTENCIA	TLJ-230	230.0	15.67	17.46	1.921+j8.253	0.643+j5.866	20.13	21.47	1.181+j7.159	0.650+j5.871
TLALTENANGO	TLO-110	115.0	1.88	1.12	9.727+j34.026	19.655+j106.103	2.08	1.23	9.576+j33.859	19.636+j106.058
TOLIMAN	TLI-115	115.0	1.60	1.03	12.285+j39.618	31.760+j105.050	1.78	1.14	12.038+j39.343	31.714+j104.785
TOTOTLAN	TTO-115	115.0	5.03	3.56	3.809+j12.631	9.833+j27.839	5.62	3.96	3.648+j12.477	9.800+j27.696
TREJO	TRJ-115	115.0	8.33	6.85	2.203+j7.658	5.089+j12.172	9.40	7.65	2.076+j7.488	5.085+j12.124
TREMEC	TRE-115	115.0	18.26	15.94	0.759+j3.556	0.971+j5.131	20.58	17.78	0.705+j3.478	0.972+j5.136
TRES MARÍAS	TSM-115	115.0	7.66	5.84	2.054+j8.425	3.738+j16.364	8.52	6.47	1.965+j8.343	3.730+j16.294
TRES NACIONES	TEN-115	115.0	17.59	14.99	0.858+j3.676	1.029+j5.655	20.10	16.90	0.772+j3.551	1.026+j5.610
TRIARA	TTR-115	115.0	12.78	11.39	1.519+j4.968	0.700+j7.146	14.32	12.66	1.462+j4.887	0.699+j7.145
TRIGUILLOS	TGS-115	115.0	2.82	1.89	8.350+j22.036	19.787+j54.671	3.11	2.09	8.275+j21.976	19.782+j54.611
TURBORREACTORES S.A. DE C.V.	REA-115	115.0	18.59	19.95	0.943+j3.446	0.533+j2.792	20.97	22.34	0.889+j3.368	0.534+j2.796
TUXPAN	TUX-115	115.0	3.30	2.62	6.877+j18.893	11.234+j33.979	3.70	2.93	6.641+j18.582	11.179+j33.636
TUXPAN	TXP-115	115.0	5.75	3.88	3.220+j11.094	9.074+j26.788	6.38	4.29	3.167+j10.992	9.076+j26.753
TUZANIA	TUZ-230	230.0	13.91	13.87	2.174+j9.296	1.648+j9.495	19.57	18.43	1.126+j7.378	1.540+j8.719
UNIVERSIDAD AUTÓNOMA DE GUADALAJARA	UAG-69	69.0	17.11	12.26	0.573+j2.257	0.969+j5.005	19.92	14.02	0.485+j2.146	0.940+j4.890
UNIVERSIDAD DEL VALLE DE MÉXICO	UVM-69	69.0	19.76	15.38	0.532+j1.945	0.789+j3.659	23.04	17.47	0.454+j1.847	0.786+j3.638
UNIVEX	UVX-115	115.0	4.41	3.30	4.954+j14.215	8.986+j28.955	5.00	3.70	4.773+j13.814	8.980+j28.606
URIANGATO	URG-115	115.0	5.11	3.39	3.696+j12.451	10.212+j31.121	5.70	3.76	3.584+j12.296	10.205+j31.034
URUAPAN ORIENTE	UOT-115	115.0	6.53	5.94	3.087+j9.683	3.051+j12.884	8.22	7.16	2.262+j8.591	2.988+j12.465
URUAPAN POTENCIA	UPP-230	230.0	4.29	4.29	6.778+j30.237	3.326+j30.858	5.86	5.89	3.878+j24.603	2.476+j24.466
URUAPAN POTENCIA	UPP-161	161.0	3.99	4.23	4.202+j22.942	1.523+j19.206	6.14	6.72	2.074+j16.533	1.068+j12.247



Subestación Eléctrica	Acrónimo	Tensión (kV)	Corriente de cortocircuito (kA) e impedancias de Thévenin secuencias positiva y cero (Ω)							
			NCC mínimo 2026				NCC máximo 2026			
			3F	1F	ZTH(+)	ZTH(0)	3F	1F	ZTH(+)	ZTH(0)
URUAPAN POTENCIA	UPP-115	115.0	7.53	8.57	2.516+j8.451	0.581+j5.657	9.82	11.00	1.646+j7.253	0.482+j5.047
URUAPAN TRES	UPT-115	115.0	7.63	7.67	2.627+j8.291	1.997+j8.349	9.83	9.53	1.814+j7.207	1.929+j7.901
URUAPAN TRES	UPT-69	69.0	2.71	0.86	3.191+j14.342	29.829+j105.181	4.06	2.79	1.970+j10.619	3.771+j25.305
USI	USI-69	69.0	7.63	4.80	1.429+j5.022	3.745+j13.949	9.26	6.46	1.221+j4.569	2.856+j10.508
USM	USM-115	115.0	7.11	6.67	2.483+j9.003	4.203+j10.432	7.98	7.44	2.356+j8.839	4.197+j10.375
VALLARTA POTENCIA	VTP-230	230.0	3.28	4.19	10.780+j38.962	1.320+j14.349	4.12	5.15	8.044+j34.541	1.310+j14.142
VALLARTA POTENCIA	VTP-115	115.0	5.91	7.97	3.074+j10.800	0.183+j2.568	7.31	9.76	2.356+j9.715	0.177+j2.489
VALLARTA UNO	VRT-115	115.0	4.76	5.03	3.970+j13.382	2.494+j11.409	5.75	5.92	3.216+j12.287	2.488+j11.331
VALLE DE AGUASCALIENTES	VAG-115	115.0	14.60	11.33	0.870+j4.464	1.446+j8.356	16.76	12.77	0.741+j4.294	1.445+j8.348
VALLE DE GUADALUPE	VGP-115	115.0	5.99	4.44	2.827+j10.725	7.280+j21.543	6.68	4.92	2.692+j10.598	7.274+j21.530
VALLE DE LAS DELICIAS	VDL-115	115.0	3.79	2.91	5.092+j16.740	11.154+j31.443	4.24	3.25	4.909+j16.492	11.148+j31.375
VALLE DE SANTIAGO	VAS-115	115.0	11.89	8.90	1.298+j5.431	3.094+j10.778	13.69	10.08	1.175+j5.202	3.081+j10.640
VALLE DE TECOMAN	VAT-115	115.0	2.84	1.86	6.992+j22.334	19.316+j56.901	3.21	2.08	6.725+j21.755	19.312+j56.803
VALLE DEL MEZQUITAL	VDM-230	230.0	6.15	6.42	3.407+j21.338	2.518+j18.683	7.41	7.55	2.762+j19.508	2.495+j18.481
VALLE DORADO	VDO-115	115.0	5.02	5.93	3.615+j12.733	1.525+j6.981	6.07	7.07	2.900+j11.671	1.459+j6.786
VALLE VERDE	VAV-115	115.0	3.41	3.01	5.837+j18.594	4.990+j26.944	4.63	4.12	3.749+j15.309	4.109+j21.272
VALLEJO (ANTES CARLOTA)	CAR-115	115.0	12.97	9.03	1.024+j5.016	2.047+j11.643	14.45	10.00	0.977+j4.959	2.040+j11.626
VALPARAISO	VPS-110	115.0	1.26	0.82	18.680+j49.102	43.964+j132.232	1.40	0.90	18.439+j48.838	43.962+j132.207
VAQUERÍAS MANIOBRAS	VQM-230	230.0	6.36	6.64	3.313+j20.601	2.350+j18.114	7.64	7.79	2.684+j18.919	2.306+j17.874
VELCON	VEL-115	115.0	12.41	9.91	1.283+j5.192	2.269+j9.115	13.97	11.10	1.196+j5.090	2.252+j9.006
VENUSTIANO CARRANZA	VNC-115	115.0	5.47	3.62	3.026+j11.754	7.288+j29.919	6.13	4.02	2.868+j11.572	7.273+j29.833
VERGELES	VGL-115	115.0	4.06	3.77	5.900+j15.237	5.901+j19.241	4.49	4.16	5.861+j15.180	5.894+j19.223
VIDRIERA	VRA-115	115.0	17.32	14.79	0.881+j3.730	1.175+j5.689	19.78	16.67	0.795+j3.605	1.172+j5.645
VIDRIERA GUADALAJARA	VID-69	69.0	20.27	16.51	0.488+j1.904	0.578+j3.261	23.87	19.19	0.399+j1.792	0.546+j3.133
VIDRIERA QUERÉTARO	VRR-115	115.0	15.25	14.67	1.095+j4.214	0.878+j4.799	17.17	16.37	1.034+j4.127	0.878+j4.801
VILLA DE ÁLVAREZ	VDA-115	115.0	7.78	7.52	1.906+j8.317	1.864+j9.222	9.26	8.77	1.646+j7.711	1.841+j9.029
VILLA DE ARISTA	VAR-115	115.0	2.75	2.40	9.285+j22.329	7.103+j34.236	3.20	2.84	8.286+j21.273	6.211+j31.220
VILLA DE REYES	VDR-230	230.0	18.25	19.99	1.215+j7.175	0.556+j5.358	23.20	26.48	0.871+j6.237	0.323+j3.949
VILLA DE REYES	VDR-115	115.0	9.31	10.20	1.140+j7.041	0.425+j5.266	10.47	11.53	1.058+j6.898	0.387+j5.038
VILLA HIDALGO	VHO-115	115.0	2.71	1.79	8.116+j23.090	18.069+j59.945	3.01	1.97	7.968+j22.916	18.069+j59.918
VILLA JIMÉNEZ	VIJ-115	115.0	5.35	3.81	3.673+j11.848	7.977+j26.255	6.33	5.24	3.167+j11.102	4.143+j18.271
VILLA JUÁREZ	VJU-115	115.0	8.45	6.07	1.561+j7.702	2.807+j16.850	9.51	6.77	1.433+j7.545	2.807+j16.837
VILLAGRÁN	VIG-110	115.0	8.01	6.81	1.942+j8.062	3.125+j12.275	8.93	7.57	1.854+j7.965	3.112+j12.183
VINITECK S.A. DE C.V.	VIN-69	69.0	6.26	4.70	1.305+j6.233	2.529+j12.449	7.09	5.28	1.204+j6.066	2.516+j12.283
VISTA HERMOSA	VIH-115	115.0	8.57	6.38	2.249+j7.411	4.917+j14.951	9.72	7.14	2.082+j7.222	4.908+j14.880
VIZARRÓN	VIZ-110	115.0	2.58	1.24	8.080+j24.417	30.297+j104.383	2.85	1.37	8.037+j24.369	30.298+j104.366
VOLCANES	VCS-69	69.0	0.66	0.01	18.675+j57.2382	477+j-14,917.972	0.90	0.01	12.998+j47.1692	477+j-14,917.972
VOLKSWAGEN	VWS-115	115.0	6.79	5.39	2.550+j9.446	4.122+j16.892	7.60	6.00	2.421+j9.305	4.112+j16.821
VYNMSA	VYN-115	115.0	7.54	4.24	1.868+j8.611	7.480+j28.352	8.47	4.71	1.742+j8.450	7.473+j28.294
XALISCO	XLS-115	115.0	7.07	5.78	1.998+j9.179	3.289+j15.323	8.89	6.94	1.468+j8.083	3.222+j14.795



Subestación Eléctrica	Acronímico	Tensión (kV)	Corriente de cortocircuito (kA) e impedancias de Thévenin secuencias positiva y cero (Ω)							
			NCC mínimo 2026				NCC máximo 2026			
			3F	1F	ZTH(+)	ZTH(0)	3F	1F	ZTH(+)	ZTH(0)
YERBABUENA	YER-115	115.0	4.86	3.05	3.183+j13.282	8.613+j36.899	5.42	3.39	3.024+j13.127	8.583+j36.768
YURÉCUARO	YUR-115	115.0	6.57	5.00	2.985+j9.662	5.584+j18.770	7.39	5.58	2.813+j9.477	5.568+j18.690
ZACAPU	ZCP-110	115.0	5.24	3.78	4.284+j11.927	9.142+j25.812	6.06	4.63	3.896+j11.400	7.307+j22.042
ZACATECAS	ZCT-115	115.0	6.47	5.46	2.906+j9.836	4.325+j15.403	7.45	6.17	2.619+j9.447	4.313+j15.311
ZACATECAS II	ZCD-230	230.0	6.62	6.92	5.015+j19.436	2.792+j17.276	7.82	8.04	4.122+j18.215	2.721+j17.017
ZACATECAS II	ZCD-115	115.0	9.41	11.05	1.822+j6.814	0.490+j3.913	11.10	12.95	1.535+j6.399	0.462+j3.775
ZACATECAS SUR	ZCS-115	115.0	6.59	5.62	2.894+j9.658	4.098+j14.740	7.59	6.36	2.607+j9.266	4.084+j14.643
ZALATITAN	ZLT-69	69.0	12.57	9.09	0.690+j3.094	1.408+j6.663	14.64	10.32	0.592+j2.935	1.406+j6.601
ZAMORA	ZMA-110	115.0	8.03	6.26	2.193+j7.969	4.351+j14.669	9.11	7.01	2.018+j7.757	4.340+j14.598
ZAMORA POTENCIA	ZRP-230	230.0	7.96	6.97	3.225+j16.370	4.334+j23.332	9.34	7.99	2.551+j15.424	4.295+j23.192
ZAMORA POTENCIA	ZRP-115	115.0	10.86	11.61	1.333+j5.967	0.650+j4.889	12.48	13.27	1.156+j5.739	0.626+j4.774
ZAPOPAN	ZPA-230	230.0	9.52	8.18	2.899+j13.651	4.385+j20.337	12.08	9.83	1.890+j11.948	4.315+j19.941
ZAPOPAN	ZPA-69	69.0	21.92	18.63	0.457+j1.759	0.437+j2.751	25.96	21.81	0.368+j1.647	0.405+j2.623
ZAPOTILTIC	ZTI-115	115.0	4.79	4.40	3.818+j13.318	4.917+j16.889	5.42	4.96	3.578+j13.001	4.861+j16.546
ZAPOTLANEJO	ZPO-400	400.0	13.10	12.79	3.620+j17.248	3.093+j18.654	18.47	16.54	1.668+j13.654	3.125+j18.323
ZAPOTLANEJO	ZPO-230	230.0	15.52	17.04	1.883+j8.345	0.742+j6.247	20.75	21.64	1.053+j6.961	0.749+j6.126
ZAPOTLANEJO DISTRIBUCIÓN	ZAD-115	115.0	2.72	1.32	8.102+j23.019	33.496+j96.608	3.02	1.46	7.902+j22.864	33.476+j96.521
ZARAGOZA	ZAG-115	115.0	5.41	3.51	2.374+j12.046	8.188+j31.218	6.02	3.88	2.291+j11.922	8.183+j31.169
ZIBATA	ZBT-115	115.0	9.82	7.10	1.711+j6.542	4.422+j13.830	10.94	7.87	1.659+j6.468	4.422+j13.823
ZIMAPAN	ZIM-115	115.0	2.35	1.92	6.582+j27.431	13.479+j45.212	2.84	2.29	5.609+j25.067	12.963+j42.576
ZINÁPARO	ZID-115	115.0	9.38	7.18	2.017+j6.788	4.656+j12.781	10.74	8.08	1.832+j6.552	4.653+j12.712
ZINAPÉCUARO	ZIN-115	115.0	8.51	6.94	1.518+j7.653	2.602+j12.851	9.36	7.64	1.488+j7.663	2.604+j12.820
ZITÁCUARO	ZIT-115	115.0	6.80	4.49	2.807+j9.357	7.265+j23.773	7.60	4.98	2.738+j9.208	7.269+j23.723
ZITÁCUARO DOS	ZTD-115	115.0	6.49	4.21	2.821+j9.827	7.457+j25.811	7.27	4.67	2.746+j9.658	7.462+j25.752
ZOLTECH	CYD-69	69.0	15.45	16.34	0.621+j2.502	0.388+j2.126	18.02	18.92	0.530+j2.373	0.384+j2.050
ZOQUIPAN	ZQP-69	69.0	14.20	10.64	0.641+j2.732	1.341+j5.460	16.71	12.18	0.533+j2.568	1.329+j5.388
ZUMPIMITO	ZMP-69	69.0	2.66	0.88	3.468+j14.556	28.947+j102.057	4.08	3.00	2.044+j10.551	2.895+j22.190

Gerencia de Control Regional Noroeste



[Regresar a mapa del SEN](#)



Niveles de cortocircuito de la Red Nacional de Transmisión
Gerencia de Control Regional Noroeste

Subestación Eléctrica	Acrónimo	Tensión (kV)	Corriente de cortocircuito (kA) e impedancias de Thévenin secuencias positiva y cero (Ω)							
			NCC mínimo 2026				NCC máximo 2026			
			3F	1F	ZTH(+)	ZTH(0)	3F	1F	ZTH(+)	ZTH(0)
ACUÍCOLA	ACU-115	115.0	2.04	1.40	8.567+j31.343	26.271+j72.793	2.35	1.57	8.021+j30.091	26.251+j72.674
AGRÍCOLA SONOYTA	AGS-115	115.0	0.61	0.42	32.139+j104.381	67.635+j249.497	0.75	0.48	25.402+j93.501	67.635+j249.457
AGUA PRIETA	AGI-115	115.0	4.63	3.09	2.748+j14.078	6.047+j35.337	5.55	3.54	2.281+j12.966	6.033+j34.939
AGUA PRIETA DOS	AGD-230	230.0	8.07	8.45	2.436+j16.266	2.432+j14.647	15.66	17.08	0.695+j9.303	0.507+j6.226
AHOME	AHO-115	115.0	4.75	3.40	3.031+j13.656	8.725+j29.247	5.48	3.83	2.858+j13.016	8.712+j29.127
ÁLAMOS	AAM-115	115.0	1.77	1.17	17.577+j33.021	33.995+j89.120	2.09	1.45	16.302+j30.981	27.045+j76.464
ALTAR	ALT-115	115.0	2.51	1.85	7.713+j25.248	14.876+j52.999	3.44	2.32	5.156+j20.585	14.297+j50.169
ANGOSTURA	ANG-115	115.0	4.64	3.32	4.088+j13.700	8.209+j30.271	5.72	3.90	3.586+j12.256	8.171+j29.118
ANTIMONIO	ANT-115	115.0	2.46	2.15	7.823+j25.827	9.855+j37.284	3.92	2.89	4.056+j18.183	9.855+j37.175
ARROYO SECO	ASE-115	115.0	1.76	1.28	10.672+j36.250	26.451+j76.029	2.40	1.63	7.263+j29.579	24.918+j69.003
BACHIGUALATO	BCH-115	115.0	4.56	2.38	2.894+j14.281	15.849+j52.310	5.30	2.67	2.583+j13.525	15.831+j52.064
BÁCUM	BAC-400	400.0	8.50	8.69	3.196+j26.993	3.043+j24.969	10.87	10.54	1.945+j23.279	3.093+j25.091
BÁCUM	BAC-230	230.0	12.01	13.00	1.467+j10.958	0.715+j8.443	15.85	16.22	0.931+j9.166	0.732+j8.417
BÁCUM	BAC-115	115.0	17.38	16.70	0.501+j3.788	0.338+j4.266	22.14	20.14	0.347+j3.280	0.354+j4.220
BACURATO	BRT-115	115.0	3.38	1.52	3.562+j19.311	20.328+j89.820	6.12	6.44	1.326+j11.866	0.282+j7.658
BAGOTES	BGT-115	115.0	11.54	10.92	1.809+j5.462	2.853+j6.150	16.44	14.46	1.328+j4.239	2.889+j5.634
BAMOA	BMO-115	115.0	2.70	1.76	8.700+j22.984	19.958+j60.684	3.14	1.99	8.252+j21.778	19.941+j59.866
BANDERAS	BND-115	115.0	12.82	10.79	0.899+j5.100	1.316+j7.988	16.14	12.88	0.696+j4.472	1.310+j7.783
BIZANI	BZI-115	115.0	3.39	3.29	5.802+j18.718	5.827+j20.609	6.21	5.05	2.223+j11.542	5.457+j19.122
BUENA VISTA	BNV-230	230.0	7.29	6.76	5.314+j17.413	4.408+j22.496	10.56	8.76	3.006+j13.502	4.367+j21.771
CABORCA	CBA-115	115.0	3.71	3.15	5.003+j17.181	4.889+j27.203	6.90	5.26	1.661+j10.457	3.377+j20.207
CAJEME	CAJ-115	115.0	13.10	11.33	0.817+j5.004	1.175+j7.339	16.44	13.49	0.624+j4.399	1.175+j7.202
CAMPO GOBIERNO	CMG-115	115.0	9.57	0.00	1.362+j6.804	0.00+j132,250,000.000	0.23	0.00	0.986+j5.890	0.00+j132,250,000.000
CARDONAL	CRD-115	115.0	2.05	1.45	8.530+j31.210	26.272+j68.322	2.36	1.62	7.984+j29.958	26.252+j68.203
CARRIZO	CRZ-115	115.0	3.92	3.76	5.296+j16.071	5.782+j18.224	5.03	4.71	4.358+j13.861	5.200+j16.536
CENTENARIO	CNT-115	115.0	12.55	10.46	1.111+j5.173	1.736+j8.114	15.90	12.56	0.926+j4.499	1.714+j7.950
CENTINELA	CLA-115	115.0	8.10	6.53	1.690+j8.019	4.121+j13.549	9.45	7.42	1.546+j7.575	4.119+j13.524
CERRO CAÑEDO	CCA-115	115.0	3.31	2.71	5.670+j19.266	7.118+j32.635	5.58	4.11	2.422+j12.869	5.782+j26.412
CHINITOS	CHI-115	115.0	2.20	1.48	8.888+j28.794	25.048+j70.363	2.50	1.65	8.530+j27.886	25.038+j69.966
CHOACAHUI	CHO-400	400.0	11.87	13.72	1.926+j19.361	0.667+j10.674	15.45	17.27	1.003+j16.406	0.660+j10.509
CHOACAHUI	CHO-230	230.0	18.27	20.06	0.658+j7.238	0.340+j4.586	24.52	25.89	0.361+j5.946	0.362+j4.419
CIUDAD OBREGÓN CUATRO	COC-230	230.0	9.95	10.33	2.036+j13.188	1.713+j11.662	13.64	13.22	1.287+j10.634	1.697+j11.386
CIUDAD OBREGÓN CUATRO	COC-115	115.0	15.16	13.48	0.722+j4.319	0.830+j5.950	19.56	16.41	0.523+j3.696	0.819+j5.770
CIUDAD OBREGÓN DOS	COD-115	115.0	15.84	14.66	0.647+j4.143	0.736+j5.132	20.32	17.81	0.466+j3.563	0.739+j5.007
CIUDAD OBREGÓN TRES	COT-230	230.0	8.62	8.68	2.361+j15.223	2.053+j14.905	11.48	10.85	1.583+j12.625	2.030+j14.581
CIUDAD OBREGÓN TRES	COT-115	115.0	15.43	14.43	0.654+j4.254	0.554+j5.151	19.98	17.83	0.457+j3.626	0.547+j4.880
CIUDAD OBREGÓN UNO	OBU-115	115.0	13.99	12.04	0.861+j4.667	1.218+j6.927	17.86	14.52	0.655+j4.037	1.210+j6.738
COCORIT	CCI-115	115.0	11.28	7.98	0.950+j5.808	2.651+j12.904	13.89	9.30	0.760+j5.205	2.649+j12.706
COMEDERO	CMR-115	115.0	3.55	1.64	3.792+j18.335	20.779+j81.181	5.98	6.66	1.621+j12.098	0.301+j7.444
COMPUERTAS	CMP-115	115.0	10.63	8.37	1.116+j6.144	2.085+j10.967	13.15	9.86	0.926+j5.474	2.064+j10.814



Subestación Eléctrica	Acrónimo	Tensión (kV)	Corriente de cortocircuito (kA) e impedancias de Thévenin secuencias positiva y cero (Ω)							
			NCC mínimo 2026				NCC máximo 2026			
			3F	1F	ZTH(+)	ZTH(0)	3F	1F	ZTH(+)	ZTH(0)
COSTA RICA	CSA-115	115.0	5.48	2.84	2.872+j11.760	12.946+j44.021	6.57	3.22	2.464+j10.846	12.963+j43.951
CRUZ DE PIEDRA	CDP-115	115.0	6.26	5.93	2.492+j10.308	2.150+j12.224	7.53	6.94	2.150+j9.457	2.116+j12.030
CULIACÁN CENTRO	CCC-115	115.0	11.41	10.25	1.227+j5.689	1.733+j7.538	15.87	13.30	0.777+j4.536	1.682+j6.927
CULIACÁN CINCO	CUI-115	115.0	12.12	11.32	1.127+j5.359	1.435+j6.442	16.76	14.36	0.705+j4.300	1.457+j6.251
CULIACÁN CUATRO	CUC-115	115.0	12.84	12.22	1.070+j5.060	1.284+j5.766	17.66	15.40	0.668+j4.081	1.300+j5.697
CULIACÁN LIBRAMIENTO	CLI-115	115.0	10.76	10.00	1.296+j6.033	1.873+j7.289	14.57	12.61	0.862+j4.938	1.878+j6.982
CULIACÁN MILENIUM	CMI-115	115.0	10.88	11.07	1.274+j5.968	1.728+j5.490	14.60	14.98	0.854+j4.928	1.480+j4.297
CULIACÁN NORTE	CUN-115	115.0	11.58	10.97	1.209+j5.607	1.478+j6.476	16.07	14.71	0.766+j4.479	1.290+j5.518
CULIACÁN ORIENTE	CUO-115	115.0	11.82	11.91	1.215+j5.483	1.264+j5.297	16.61	15.92	0.766+j4.329	1.221+j4.664
CULIACÁN PONIENTE	CPO-400	400.0	7.30	7.68	5.591+j31.118	3.509+j26.178	10.74	10.25	2.587+j23.511	3.534+j26.147
CULIACÁN PONIENTE	CPO-115	115.0	14.97	12.64	0.735+j4.375	0.876+j6.780	20.08	15.71	0.434+j3.611	0.858+j6.534
CULIACÁN SUR	CUS-115	115.0	11.08	9.90	1.213+j5.867	1.759+j7.893	14.81	12.20	0.805+j4.864	1.775+j7.780
CULIACÁN TRES	CUT-230	230.0	8.44	9.57	3.139+j15.411	1.434+j9.846	12.44	13.07	1.621+j11.628	1.389+j9.503
CULIACÁN TRES	CUT-115	115.0	13.66	14.01	0.980+j4.760	0.683+j4.396	20.19	19.98	0.524+j3.579	0.557+j3.528
CULIACÁN UNO	CUU-115	115.0	13.28	13.08	1.042+j4.889	1.063+j5.065	18.94	18.79	0.611+j3.808	0.650+j3.770
DEL MAR	DMA-115	115.0	11.82	10.43	1.152+j5.499	1.408+j7.719	17.80	14.33	0.619+j4.055	1.360+j6.940
DERIVACIÓN	DER-115	115.0	8.51	6.66	1.908+j7.569	3.900+j13.773	11.32	8.21	1.371+j6.303	3.835+j13.285
DESEO	DSE-115	115.0	2.23	1.88	9.114+j28.391	17.029+j42.966	3.33	2.48	5.511+j21.243	16.659+j41.478
DYNATECH	DYN-115	115.0	11.88	12.41	1.794+j5.291	2.062+j4.454	17.82	17.83	1.187+j3.923	1.849+j3.722
EL DORADO	EDR-115	115.0	1.69	0.99	11.239+j37.670	26.901+j120.253	1.90	1.10	10.804+j36.789	26.917+j120.183
EL FRESNAL	EFR-230	230.0	9.05	10.69	2.342+j14.491	0.564+j8.548	15.66	17.42	0.844+j9.292	0.529+j6.060
EL FRESNAL	EFR-115	115.0	7.26	5.65	1.027+j9.089	0.847+j17.084	9.19	6.72	0.611+j7.923	0.826+j16.615
EL FUERTE	EFU-115	115.0	3.09	2.07	6.800+j20.416	15.173+j50.731	5.02	5.31	3.292+j14.165	1.213+j12.228
EL FUERTE PENAL	EFP-115	115.0	3.76	2.62	5.392+j16.799	11.436+j39.057	5.74	5.23	3.050+j12.356	3.330+j16.043
EL HABAL	HBL-230	230.0	7.50	7.59	3.148+j17.413	1.841+j16.967	13.67	13.23	1.098+j10.629	1.698+j11.567
EL HABAL	HBL-115	115.0	11.67	10.44	1.026+j5.598	1.023+j7.618	17.79	14.51	0.488+j4.075	0.953+j6.815
EL LLANO	LNO-115	115.0	3.64	2.70	6.227+j17.147	10.804+j35.673	4.69	3.21	4.824+j14.800	10.802+j35.609
EL MAYO	EMY-230	230.0	5.81	6.04	4.230+j22.461	2.461+j19.913	8.44	8.01	2.532+j17.126	2.509+j19.499
EL MAYO	EMY-115	115.0	9.08	10.06	1.336+j7.192	0.551+j5.102	12.69	13.21	0.845+j5.694	0.565+j4.947
EMPALME	EPM-115	115.0	9.47	8.58	1.386+j6.869	1.574+j9.112	11.48	10.02	1.163+j6.253	1.566+j9.032
EMPALME CICLO COMBINADO	ECC-400	400.0	9.02	10.44	2.515+j25.486	0.950+j15.091	11.23	12.68	1.421+j22.580	0.909+j14.737
EMPALME CICLO COMBINADO	ECC-230	230.0	12.72	15.05	1.131+j10.377	0.359+j5.812	15.52	18.01	0.831+j9.374	0.346+j5.664
ESCUINAPA	EPA-115	115.0	1.64	0.98	8.933+j39.387	36.252+j116.602	1.88	1.10	8.331+j38.032	36.172+j115.856
ESPERANZA	ESP-230	230.0	5.45	5.40	4.905+j23.850	3.487+j24.882	7.75	7.16	2.785+j18.642	3.309+j23.300
ESPERANZA	ESP-115	115.0	9.33	8.71	1.559+j6.945	1.046+j8.606	12.63	10.90	1.024+j5.690	1.026+j8.487
ESTACIÓN TORRES	ETO-115	115.0	3.63	2.33	5.919+j17.303	14.791+j46.636	4.30	2.69	5.450+j16.104	14.482+j45.145
ÉVORA	EVO-115	115.0	8.38	7.08	1.464+j7.789	1.566+j12.093	11.44	9.08	0.965+j6.311	1.530+j10.883
FÁTIMA	FMA-115	115.0	9.92	9.21	1.256+j6.576	1.281+j8.184	11.78	10.63	1.106+j6.101	1.276+j8.140
FUNDICIÓN	FUC-115	115.0	5.00	3.39	3.873+j12.705	9.334+j30.842	6.06	3.93	3.382+j11.561	9.207+j30.223
GRUPO MÉXICO (SE MINA)	SMI-230	230.0	5.25	3.99	7.065+j24.277	11.716+j48.227	6.85	4.78	4.685+j20.806	11.675+j47.500



Niveles de cortocircuito de la Red Nacional de Transmisión
Gerencia de Control Regional Noroeste

Subestación Eléctrica	Acrónimo	Tensión (kV)	Corriente de cortocircuito (kA) e impedancias de Thévenin secuencias positiva y cero (Ω)							
			NCC mínimo 2026				NCC máximo 2026			
			3F	1F	ZTH(+)	ZTH(0)	3F	1F	ZTH(+)	ZTH(0)
GUAMÚCHIL	GML-115	115.0	7.58	6.06	1.669+j8.595	2.367+j15.089	10.08	7.56	1.170+j7.148	2.329+j13.937
GUAMÚCHIL DOS	GMD-230	230.0	6.39	6.00	3.977+j20.411	3.909+j24.109	8.70	7.59	2.530+j16.600	3.712+j23.113
GUAMÚCHIL DOS	GMD-115	115.0	8.88	7.81	1.340+j7.354	1.084+j10.421	12.36	10.22	0.842+j5.851	1.050+j9.168
GUASAVE	GSV-115	115.0	5.52	3.95	2.823+j11.690	7.626+j25.098	6.67	4.58	2.450+j10.664	7.628+j24.554
GUAYMAS CERESO	GYC-230	230.0	10.27	11.01	1.770+j12.807	1.420+j10.397	12.85	13.27	1.285+j11.293	1.423+j10.316
GUAYMAS CERESO	GYC-115	115.0	15.18	14.47	0.587+j4.335	0.449+j5.038	18.57	17.00	0.454+j3.907	0.450+j5.031
HERMOSILLO AEROPUERTO	HAE-230	230.0	9.11	9.51	3.187+j14.227	2.726+j12.522	16.53	17.58	1.087+j8.769	0.983+j7.223
HERMOSILLO CERESO	HCE-115	115.0	12.13	12.06	1.603+j5.236	1.761+j5.297	18.29	17.14	1.010+j3.864	1.583+j4.562
HERMOSILLO CINCO	HLI-230	230.0	11.13	12.08	2.479+j11.666	1.472+j9.081	18.28	17.99	0.958+j7.932	1.348+j8.320
HERMOSILLO CINCO	HLI-115	115.0	15.40	15.75	0.981+j4.198	0.614+j4.006	27.55	31.26	0.368+j2.625	0.142+j1.740
HERMOSILLO CUATRO	HLC-230	230.0	9.87	11.01	2.864+j13.150	1.298+j9.263	16.65	17.04	1.127+j8.699	1.224+j8.118
HERMOSILLO CUATRO	HLC-115	115.0	16.68	18.01	0.911+j3.875	0.388+j3.105	27.20	27.46	0.432+j2.650	0.424+j2.590
HERMOSILLO DOS	HLD-115	115.0	12.73	11.05	1.176+j5.082	1.336+j7.506	18.55	14.43	0.670+j3.880	1.352+j7.197
HERMOSILLO LA MANGA	HMA-115	115.0	8.85	7.08	2.231+j7.166	2.984+j12.817	11.82	8.72	1.733+j5.929	3.015+j12.443
HERMOSILLO LOMAS	HLM-230	230.0	9.25	9.96	3.160+j14.009	1.866+j11.195	15.76	15.52	1.211+j9.190	1.702+j9.595
HERMOSILLO LOMAS	HLM-115	115.0	13.77	14.02	1.025+j4.712	0.627+j4.550	20.48	19.15	0.526+j3.527	0.655+j4.271
HERMOSILLO MANIOBRAS	HMB-115	115.0	8.67	8.28	1.805+j7.438	1.087+j8.748	12.63	11.36	1.108+j5.676	1.016+j7.697
HERMOSILLO MISIÓN	HMI-115	115.0	11.25	10.99	1.384+j5.735	1.522+j6.153	15.81	14.43	0.887+j4.533	1.558+j5.763
HERMOSILLO NUEVE	HLN-115	115.0	15.29	16.46	1.303+j4.144	0.777+j3.350	24.57	25.05	0.752+j2.876	0.700+j2.734
HERMOSILLO OCHO	HLO-115	115.0	12.70	11.75	1.235+j5.079	1.488+j6.347	19.78	17.11	0.642+j3.636	1.325+j5.291
HERMOSILLO SEIS	HLS-115	115.0	12.36	11.78	1.228+j5.229	1.370+j6.031	17.88	15.70	0.737+j4.017	1.400+j5.632
HERMOSILLO SIETE	HLE-115	115.0	11.78	9.06	1.200+j5.509	2.064+j10.526	16.88	11.56	0.682+j4.273	2.062+j10.106
HERMOSILLO TRES	HLT-230	230.0	9.93	10.72	2.965+j13.036	1.734+j10.369	16.70	16.26	1.148+j8.671	1.643+j9.352
HERMOSILLO TRES	HLT-115	115.0	14.02	11.92	0.977+j4.634	0.931+j7.217	21.47	16.19	0.459+j3.370	0.904+j6.691
HERMOSILLO UNO	HLU-115	115.0	15.17	16.40	1.210+j4.206	0.744+j3.331	24.59	25.18	0.652+j2.898	0.651+j2.703
HERNANDO DE VILLAFañE	HVF-115	115.0	5.03	3.47	2.935+j12.878	8.449+j29.790	6.05	4.00	2.544+j11.805	8.453+j29.178
HIERRO DE SONORA	HDS-115	115.0	5.59	3.77	3.124+j11.458	7.814+j28.035	6.65	4.31	2.849+j10.606	7.788+j27.734
HORNILLOS	HRS-115	115.0	2.63	1.73	8.219+j23.920	18.741+j61.606	4.11	3.86	4.402+j17.223	4.209+j20.844
HUATABAMPO	HPO-115	115.0	6.03	4.42	2.315+j10.767	6.527+j22.039	7.70	5.26	1.810+j9.311	6.494+j21.681
HUITES	HTS-230	230.0	2.99	1.64	6.820+j43.926	37.032+j149.666	7.78	8.39	1.260+j18.737	0.432+j11.725
HUMAYA	HYA-115	115.0	5.59	2.91	2.196+j11.675	10.788+j43.423	8.63	8.84	1.097+j8.389	0.396+j7.085
IMURIS	IMR-115	115.0	3.35	2.81	6.086+j18.862	10.216+j29.565	4.33	3.38	4.323+j16.287	10.207+j29.487
INDUSTRIAL CABORCA	ICA-230	230.0	2.45	2.63	16.079+j51.850	7.118+j42.910	5.11	4.45	4.292+j28.279	6.342+j40.583
INDUSTRIAL CABORCA	ICA-115	115.0	3.95	3.66	4.697+j16.150	2.863+j20.794	7.80	6.86	1.340+j9.262	1.243+j13.144
INDUSTRIAL SAN CARLOS	ISC-115	115.0	3.83	3.40	5.153+j16.542	4.790+j23.629	5.03	4.13	3.254+j14.145	4.764+j23.492
ISLA MUSALÁ	ISM-115	115.0	13.30	14.10	1.066+j4.877	0.627+j4.045	19.48	20.02	0.612+j3.699	0.530+j3.239
JAIME SEVILLA POYASTRO	JSP-115	115.0	11.49	11.63	1.210+j5.652	1.487+j5.323	15.66	16.00	0.785+j4.598	1.175+j4.092
JOSÉ ÁNGEL ESPINOZA	JAE-115	115.0	1.68	1.05	12.373+j37.591	32.787+j106.137	2.51	2.11	7.053+j28.192	11.841+j43.999
JUAN JOSÉ RÍOS	JJR-115	115.0	7.28	5.45	1.601+j8.978	4.541+j17.647	8.75	6.30	1.367+j8.235	4.509+j17.416
LA CARIDAD	LCD-230	230.0	7.45	5.80	3.077+j17.566	8.466+j32.086	9.20	6.78	2.271+j15.721	8.457+j31.709



Subestación Eléctrica	Acrónimo	Tensión (kV)	Corriente de cortocircuito (kA) e impedancias de Thévenin secuencias positiva y cero (Ω)							
			NCC mínimo 2026				NCC máximo 2026			
			3F	1F	ZTH(+)	ZTH(0)	3F	1F	ZTH(+)	ZTH(0)
LA CARIDAD FUNDICIÓN	LCF-230	230.0	9.85	9.61	1.720+j13.368	2.197+j14.392	12.06	11.35	1.167+j12.052	2.188+j14.132
LA CARIDAD GENERACIÓN	LCG-230	230.0	11.60	12.78	1.451+j11.353	0.567+j8.361	14.50	15.45	0.902+j10.033	0.559+j8.100
LA CHOYA	LCH-115	115.0	1.85	1.85	10.561+j34.385	16.354+j32.426	3.07	2.64	4.485+j23.358	16.354+j32.386
LA CRUZ	LCZ-115	115.0	1.09	0.69	16.611+j58.888	52.015+j159.503	1.23	0.77	16.016+j57.377	51.932+j158.667
LA HIGUERA	HGA-400	400.0	6.98	7.58	6.025+j32.549	2.458+j24.572	10.40	10.25	2.729+j24.283	2.509+j24.625
LA HIGUERA	HGA-230	230.0	9.49	11.90	2.652+j13.742	0.315+j5.328	14.02	16.61	1.304+j10.339	0.326+j5.187
LA HIGUERA	HGA-115	115.0	15.37	19.38	0.823+j4.242	0.081+j1.596	21.73	26.21	0.456+j3.330	0.090+j1.537
LA MISA	LMA-115	115.0	3.53	2.67	5.503+j17.996	9.944+j35.594	4.08	3.02	5.155+j17.154	9.909+j35.401
LA PINTA	LPN-115	115.0	1.82	1.70	11.388+j34.672	11.234+j43.159	2.87	2.30	5.755+j24.760	11.235+j43.113
LA PRIMAVERA	PMV-115	115.0	10.96	9.56	1.207+j5.939	1.756+j8.488	14.84	11.89	0.781+j4.858	1.774+j8.278
LADRILLERAS	LAD-115	115.0	12.19	10.67	1.178+j5.320	1.534+j7.642	17.46	13.82	0.669+j4.130	1.556+j7.343
LEYVA SOLANO	LVS-115	115.0	4.54	3.34	3.005+j14.319	9.107+j28.879	5.33	3.81	2.691+j13.446	9.097+j28.535
LLANO BLANCO	LLB-115	115.0	2.59	1.81	7.458+j24.574	15.706+j56.503	3.67	2.31	4.661+j19.356	14.918+j52.767
LOS ALGODONES	ALG-115	115.0	4.24	2.74	3.686+j15.203	11.866+j39.622	4.81	3.06	3.541+j14.761	11.864+j39.597
LOS MOCHIS COLINAS	LMC-115	115.0	13.63	10.55	0.841+j4.799	1.650+j8.825	17.64	12.76	0.636+j4.091	1.621+j8.626
LOS MOCHIS DOS	LMD-230	230.0	9.60	8.62	2.208+j13.650	3.399+j17.750	13.41	11.07	1.364+j10.807	3.307+j17.080
LOS MOCHIS DOS	LMD-115	115.0	9.96	7.23	1.074+j6.576	1.647+j14.001	12.78	8.96	0.811+j5.656	1.588+j12.823
LOS MOCHIS INDUSTRIAL	LMI-230	230.0	9.75	9.14	1.947+j13.481	2.512+j15.545	14.21	12.82	1.122+j10.215	2.122+j13.016
LOS MOCHIS INDUSTRIAL	LMI-115	115.0	14.82	12.28	0.675+j4.428	0.916+j7.056	19.57	15.15	0.464+j3.703	0.874+j6.826
LOS MOCHIS TRES	LMT-115	115.0	13.00	10.65	0.945+j5.021	1.721+j8.152	16.58	12.82	0.750+j4.340	1.697+j7.985
LOS MOCHIS UNO	LMU-115	115.0	13.97	11.33	0.811+j4.681	1.455+j7.797	18.11	13.77	0.610+j3.986	1.429+j7.605
LOUISIANA	LOU-230	230.0	12.35	12.91	1.376+j10.663	1.146+j8.612	17.88	18.00	0.773+j8.133	1.037+j7.445
LOUISIANA	LOU-115	115.0	17.35	16.84	0.483+j3.797	0.293+j4.009	23.05	21.16	0.316+j3.153	0.281+j3.889
LUIS DONALDO COLOSIO	LDO-115	115.0	4.04	3.25	5.024+j15.633	8.041+j27.387	5.44	3.96	3.335+j12.992	8.039+j27.330
MANIOBRA MINA COBRE DEL MAYO	MCM-115	115.0	3.04	2.01	8.963+j19.912	17.872+j52.500	3.76	2.74	7.694+j17.850	10.946+j39.863
MANIOBRAS APASCO	MAP-115	115.0	6.56	4.43	2.128+j9.896	5.875+j24.044	9.04	6.00	1.374+j7.957	4.876+j19.797
MANIOBRAS AT SOLAR V	MNV-230	230.0	2.97	4.01	12.570+j42.955	0.888+j10.260	12.21	14.36	0.920+j11.929	0.662+j6.221
MANIOBRAS BLUEMEX	MBL-115	115.0	6.95	7.03	2.100+j9.319	1.145+j9.207	8.45	8.32	1.759+j8.466	1.111+j9.014
MANIOBRAS CERVECERA OBREGÓN	MCO-115	115.0	12.54	10.25	1.060+j5.188	1.769+j8.650	15.74	12.18	0.854+j4.560	1.760+j8.463
MANIOBRAS DON DIEGO	DDS-MAN	230.0	3.79	4.39	8.872+j33.905	2.956+j20.729	5.93	6.26	3.925+j24.316	2.888+j20.439
MANIOBRAS EL PILAR	MPR-115	115.0	4.69	4.71	4.351+j13.472	1.881+j14.056	6.49	6.00	2.537+j10.961	1.858+j13.925
MANIOBRAS FRESNILLO	MFN-115	115.0	2.04	1.74	11.021+j30.686	13.194+j47.420	3.12	2.28	6.198+j22.577	13.193+j47.352
MANIOBRAS MI RANCHITO SUR	MMR-115	115.0	6.47	6.08	3.201+j9.745	2.500+j12.081	8.29	7.35	2.627+j8.410	2.523+j11.989
MANIOBRAS MINA PANGAEA	MAN-PSP	115.0	3.73	2.07	3.185+j17.501	11.699+j59.296	5.55	2.52	1.826+j13.039	11.665+j58.043
MANIOBRAS MUNISOL	MMU-115	115.0	5.73	4.88	3.654+j11.000	3.240+j17.428	7.19	5.80	3.074+j9.675	3.244+j17.256
MANIOBRAS OREJANA	MAO-230	230.0	3.58	3.99	7.192+j36.337	3.608+j25.526	5.76	5.79	2.944+j25.201	3.549+j24.598
MANIOBRAS PUERTO PEÑASCO	MPP-115	115.0	1.47	2.00	12.035+j43.407	0.519+j9.872	2.60	3.32	4.422+j27.717	0.517+j9.834
MARINA	MRN-115	115.0	10.49	8.18	1.239+j6.206	1.754+j11.543	15.26	10.70	0.701+j4.735	1.696+j10.752
MAZATLÁN AEROPUERTO	MAE-115	115.0	9.09	9.44	1.569+j7.132	1.789+j6.232	12.47	12.50	1.067+j5.758	1.739+j5.560
MAZATLÁN CENTRO	MAC-115	115.0	11.78	10.29	1.129+j5.522	1.628+j7.894	17.66	14.07	0.603+j4.092	1.587+j7.121



Niveles de cortocircuito de la Red Nacional de Transmisión
Gerencia de Control Regional Noroeste

Subestación Eléctrica	Acrónimo	Tensión (kV)	Corriente de cortocircuito (kA) e impedancias de Thévenin secuencias positiva y cero (Ω)							
			NCC mínimo 2026				NCC máximo 2026			
			3F	1F	ZTH(+)	ZTH(0)	3F	1F	ZTH(+)	ZTH(0)
MAZATLÁN DOS	MZD-400	400.0	7.09	7.54	6.445+j31.914	2.961+j26.397	12.69	11.87	1.906+j19.928	2.676+j23.812
MAZATLÁN DOS	MZD-230	230.0	8.33	8.78	2.733+j15.707	0.875+j13.425	17.28	19.85	0.644+j8.430	0.192+j5.121
MAZATLÁN DOS	MZD-115	115.0	15.46	14.35	0.738+j4.231	0.346+j5.275	25.51	21.17	0.252+j2.852	0.297+j4.605
MAZATLÁN EMILIANO ZAPATA	MZZ-115	115.0	10.45	0.00	1.286+j6.222	0.00+j132,250,000.000	00.96	0.00	0.782+j4.818	0.00+j132,250,000.000
MAZATLÁN NORTE	MZN-115	115.0	12.26	10.74	1.100+j5.304	1.214+j7.594	18.77	14.90	0.565+j3.850	1.162+j6.811
MAZATLÁN ORIENTE	MZO-115	115.0	10.29	7.19	1.428+j6.291	3.426+j14.361	14.78	9.18	0.902+j4.858	3.374+j13.578
MAZATLÁN TECNOLÓGICO	MTE-115	115.0	10.54	8.52	1.483+j6.123	2.193+j10.532	15.21	11.15	0.967+j4.702	2.145+j9.801
MAZATLÁN UNO	MZU-115	115.0	13.43	11.37	0.888+j4.864	1.138+j7.522	20.92	15.76	0.388+j3.469	1.091+j6.823
MOCHIS CENTRO	MCE-115	115.0	13.16	10.82	1.026+j4.942	1.728+j7.973	16.87	13.09	0.829+j4.250	1.704+j7.782
MOCHIS LAS VILLAS	MLV-115	115.0	12.33	9.66	0.844+j5.320	1.619+j9.563	15.56	11.52	0.657+j4.649	1.593+j9.376
MOCUZARI	MRI-115	115.0	2.09	1.38	13.772+j28.621	27.863+j75.999	2.59	2.03	11.485+j25.760	12.115+j50.663
MORELOS-LA ATRAVESADA	MLA-115	115.0	4.19	3.34	4.426+j15.209	7.130+j27.154	4.89	3.80	4.079+j14.365	7.096+j26.960
NACUZARI	NRI-230	230.0	12.21	11.60	1.741+j10.732	2.506+j12.494	16.41	14.48	0.967+j8.850	2.498+j12.117
NAINARI	NNR-115	115.0	13.69	11.80	0.750+j4.792	1.127+j7.070	17.30	14.17	0.560+j4.185	1.125+j6.868
NARANJO	NJO-115	115.0	3.94	2.56	3.533+j16.483	11.097+j42.431	4.59	2.90	3.202+j15.571	11.085+j42.033
NAVOJOA	NVJ-115	115.0	9.20	6.88	1.402+j7.078	2.859+j14.185	12.72	8.82	0.909+j5.670	2.609+j12.995
NAVOJOA INDUSTRIAL	NVI-115	115.0	6.04	4.89	2.514+j10.707	4.451+j18.117	7.74	5.84	2.014+j9.221	4.467+j17.965
NAVOJOA NORTE	NVN-115	115.0	7.95	5.82	1.756+j8.163	3.811+j17.095	10.59	7.27	1.253+j6.785	3.538+j15.867
NAVOJOA ORIENTE	NVO-115	115.0	8.58	5.82	1.436+j7.606	3.195+j18.399	11.65	7.40	0.947+j6.197	2.830+j16.705
NAVOLATO	NTO-115	115.0	4.21	2.90	3.656+j15.334	9.880+j35.745	4.92	3.28	3.278+j14.480	9.885+j35.658
NOGALES	NGS-115	115.0	3.83	3.39	5.258+j16.532	4.820+j23.648	5.02	4.13	3.356+j14.144	4.794+j23.511
NOGALES AEROPUERTO	NGA-230	230.0	2.76	3.25	14.843+j45.698	3.438+j26.670	4.05	4.44	7.857+j35.220	3.370+j26.394
NOGALES AEROPUERTO	NGA-115	115.0	5.01	5.43	4.187+j12.571	0.931+j10.418	7.07	7.08	2.373+j10.061	0.905+j10.282
NOGALES NORTE	NGN-115	115.0	3.90	3.58	5.304+j16.189	3.974+j21.329	5.14	4.38	3.407+j13.798	3.948+j21.192
NOVILLO	NVL-115	115.0	2.00	0.85	6.912+j32.451	46.406+j160.718	4.41	5.33	1.743+j16.457	0.403+j6.776
NUEVO NOGALES	NNG-115	115.0	3.81	3.25	5.640+j16.495	5.221+j26.034	5.01	3.94	3.751+j14.094	5.195+j25.898
NUEVO PROGRESO	NPO-115	115.0	4.42	3.00	3.381+j14.647	6.775+j35.771	5.27	3.43	2.914+j13.536	6.761+j35.373
OASIS	OAS-115	115.0	2.51	1.59	9.569+j24.631	22.799+j69.201	2.96	1.80	8.731+j23.105	22.776+j69.018
OBSERVATORIO	OBS-230	230.0	5.75	5.05	6.191+j22.261	7.004+j32.202	8.10	6.39	3.509+j17.686	6.966+j31.640
OCUCA	OCU-115	115.0	3.19	2.40	6.022+j19.955	10.637+j40.149	4.30	2.93	4.044+j16.501	10.557+j39.503
ORIENTE	ORI-115	115.0	1.87	1.78	10.683+j33.787	9.438+j40.258	3.15	2.50	4.573+j22.742	9.439+j40.219
OVIACHIC	OVI-115	115.0	2.25	1.57	13.945+j26.021	24.620+j63.174	2.90	2.63	10.440+j22.912	5.764+j31.253
PARQUE INDUSTRIAL HERMOSILLO NORTE	PIH-115	115.0	12.43	11.66	1.130+j5.219	1.204+j6.314	17.90	15.32	0.627+j4.033	1.230+j6.030
PARTICULAR MINA ÁLAMO DORADO	PAD-115	115.0	1.58	1.01	15.691+j38.906	36.579+j107.615	2.10	1.54	12.169+j32.645	22.477+j68.946
PARTICULAR MINA PIEDRAS VERDES	PVD-115	115.0	2.24	1.34	12.526+j26.814	29.784+j84.476	2.68	1.74	11.250+j24.772	21.156+j68.847
PARTICULAR SAUZAL	PSZ-115	115.0	0.86	0.51	23.117+j73.541	69.354+j222.776	1.43	1.92	10.314+j50.093	0.454+j12.287
PIAXTLA	PXT-115	115.0	1.61	0.99	11.247+j39.671	32.184+j114.853	1.84	1.11	10.655+j38.164	32.103+j114.021
PLANTA GUAYMAS DOS	PGD-230	230.0	10.70	11.25	1.690+j12.297	1.672+j10.649	13.42	13.56	1.212+j10.816	1.669+j10.544
PLANTA GUAYMAS DOS	PGD-115	115.0	12.82	11.24	0.764+j5.123	1.011+j7.330	15.57	13.12	0.616+j4.649	1.004+j7.282
PLAYA ENCANTO	PYE-115	115.0	1.86	1.80	10.974+j33.906	9.702+j38.375	3.04	2.50	5.158+j23.503	9.703+j38.332



Subestación Eléctrica	Acrónimo	Tensión (kV)	Corriente de cortocircuito (kA) e impedancias de Thévenin secuencias positiva y cero (Ω)							
			NCC mínimo 2026				NCC máximo 2026			
			3F	1F	ZTH(+)	ZTH(0)	3F	1F	ZTH(+)	ZTH(0)
PORTALES	PTS-115	115.0	13.28	11.88	1.111+j4.877	1.161+j6.681	19.67	15.91	0.621+j3.660	1.189+j6.247
PROGRESO	PRG-115	115.0	5.40	3.79	2.813+j11.970	7.767+j26.836	6.21	4.26	2.657+j11.464	7.783+j26.790
PROVIDENCIA	PRO-115	115.0	15.24	13.97	0.619+j4.313	0.795+j5.467	19.16	16.68	0.457+j3.784	0.811+j5.399
PUEBLITOS	PUE-115	115.0	12.23	11.11	1.150+j5.305	1.344+j6.958	17.52	14.48	0.647+j4.119	1.369+j6.673
PUEBLO NUEVO	PNO-230	230.0	7.32	8.00	3.336+j17.835	1.650+j13.249	12.08	12.02	1.607+j11.989	1.516+j11.648
PUEBLO NUEVO	PNO-115	115.0	10.06	7.07	1.159+j6.497	2.255+j14.773	14.27	9.39	0.676+j5.073	1.860+j12.862
PUERTO LIBERTAD	PLD-230	230.0	2.98	3.97	12.569+j42.812	1.321+j11.450	13.22	16.11	0.739+j11.025	0.284+j4.750
PUERTO PEÑASCO	PPA-115	115.0	1.97	2.14	10.167+j32.109	6.040+j25.144	3.41	3.19	4.091+j21.053	6.040+j25.105
QUILA	QLA-115	115.0	2.44	1.35	7.648+j26.101	14.494+j92.132	2.78	1.51	7.219+j25.213	14.510+j92.062
QUIROGA	QRG-115	115.0	8.07	6.67	2.262+j7.910	4.846+j12.555	10.55	8.18	1.778+j6.690	4.881+j12.040
RÍO SONORA	RIS-115	115.0	13.24	14.88	1.161+j4.879	0.703+j3.299	19.86	21.57	0.653+j3.619	0.692+j2.740
ROCA FUERTE	RFT-115	115.0	12.54	9.48	0.813+j5.230	1.901+j10.295	15.09	10.90	0.675+j4.794	1.901+j10.279
ROLANDO GARCÍA URREA	RGU-115	115.0	13.04	13.93	1.608+j4.831	1.423+j3.885	20.06	20.47	1.027+j3.494	1.277+j3.206
ROSARIO	ROS-115	115.0	2.30	1.44	6.388+j28.114	26.331+j76.032	2.67	1.63	5.807+j26.760	26.258+j75.310
RUIZ CORTINES	RUC-115	115.0	4.56	3.08	2.666+j14.315	9.117+j34.324	5.31	3.48	2.412+j13.549	9.088+j34.079
SAHUARO	SHO-115	115.0	2.16	1.85	10.183+j28.974	11.535+j44.834	3.36	2.44	5.564+j20.996	11.534+j44.762
SALVADOR ALVARADO	SAA-115	115.0	6.97	5.56	2.052+j9.309	3.385+j16.325	9.09	6.85	1.562+j7.882	3.353+j15.187
SAN CARLOS	SCR-115	115.0	5.68	3.63	2.606+j11.387	7.883+j30.572	6.51	4.06	2.461+j10.944	7.881+j30.546
SAN NICOLÁS	SNC-115	115.0	1.79	1.38	14.151+j34.339	25.453+j64.942	2.04	1.55	13.606+j33.098	25.436+j64.826
SAN RAFAEL	SRF-115	115.0	6.19	4.59	2.438+j10.444	5.720+j21.124	7.74	5.44	2.000+j9.222	5.703+j20.308
SAN RAFAEL AMPLIACIÓN	SRA-115	115.0	6.19	4.59	2.438+j10.444	5.720+j21.124	7.74	5.44	2.000+j9.222	5.703+j20.308
SANALONA	SLA-115	115.0	2.57	1.86	11.852+j22.988	18.008+j52.580	3.13	3.01	10.255+j20.991	4.447+j26.084
SANTA ANA	STA-230	230.0	4.58	6.86	9.413+j27.414	0.520+j0.120	8.83	13.10	3.230+j16.226	0.542+j0.127
SANTA ANA	STA-115	115.0	6.98	7.56	2.697+j9.118	0.544+j7.473	11.26	10.74	1.089+j6.393	0.542+j7.405
SANTA FE	STF-115	115.0	10.08	8.00	1.235+j6.467	2.420+j11.415	13.03	9.81	0.864+j5.538	2.284+j10.788
SANTA MARÍA	STM-115	115.0	5.24	3.67	2.892+j12.335	8.029+j27.671	6.32	4.25	2.511+j11.289	8.032+j27.098
SEIS DE ABRIL	SSA-230	230.0	2.47	3.05	16.507+j51.206	2.237+j23.691	6.31	6.29	3.280+j22.926	2.216+j23.025
SEIS DE ABRIL	SSA-115	115.0	4.19	5.54	4.716+j15.145	0.388+j4.350	9.72	11.34	0.999+j7.445	0.388+j4.242
SELECTA	SEL-115	115.0	1.82	1.19	10.801+j34.902	30.602+j89.988	2.08	1.33	10.208+j33.610	30.582+j89.869
SERI	SER-400	400.0	6.60	6.86	5.002+j34.610	3.228+j30.980	9.03	8.72	2.314+j28.027	3.265+j31.007
SERI	SER-230	230.0	11.24	12.65	2.206+j11.611	0.911+j7.870	17.60	18.19	0.915+j8.249	0.933+j7.461
SIEMPRE VIVA	SVV-115	115.0	3.15	3.17	6.271+j20.132	6.694+j19.552	5.61	4.76	2.624+j12.752	6.574+j18.934
SONOYTA	SNY-115	115.0	0.79	0.57	25.006+j79.969	47.648+j177.100	1.02	0.67	18.326+j69.098	47.648+j177.060
SUBESTACIÓN BAHÍA DE KINO	SBK-115	115.0	1.78	1.38	16.340+j33.612	25.453+j64.942	2.03	1.55	15.795+j32.374	25.436+j64.826
SUBESTACIÓN CANANEA	SCN-230	230.0	7.19	6.86	5.314+j17.686	3.924+j21.160	10.52	8.99	2.930+j13.578	3.875+j20.445
SUBESTACIÓN CANANEA	SCN-115	115.0	6.81	5.78	1.650+j9.604	0.957+j15.083	8.49	6.90	1.060+j8.539	0.918+j14.481
SUBESTACIÓN CANANEA SUR	CNS-230	230.0	6.46	5.29	6.254+j19.579	7.916+j33.598	8.84	6.54	3.901+j16.063	7.875+j32.872
SUBESTACIÓN CENTRO	SCE-230	230.0	5.78	4.54	6.738+j21.955	9.857+j41.061	7.69	5.50	4.361+j18.480	9.816+j40.334
SUBESTACIÓN CINCO	SBI-115	115.0	3.27	2.49	4.690+j19.734	15.092+j36.594	3.86	2.84	4.147+j18.482	15.072+j36.476
SUBESTACIÓN COLINAS	SCL-115	115.0	11.16	8.96	1.307+j5.806	2.010+j10.155	15.65	11.32	0.798+j4.599	2.024+j9.830



Subestación Eléctrica	Acrónimo	Tensión (kV)	Corriente de cortocircuito (kA) e impedancias de Thévenin secuencias positiva y cero (Ω)							
			NCC mínimo 2026				NCC máximo 2026			
			3F	1F	ZTH(+)	ZTH(0)	3F	1F	ZTH(+)	ZTH(0)
SUBESTACIÓN CONCENTRADORA	SCO-230	230.0	5.74	4.55	6.928+j22.070	9.827+j40.382	7.56	5.50	4.586+j18.757	9.786+j39.656
SUBESTACIÓN CUATRO	SBC-115	115.0	3.04	2.07	6.781+j20.752	14.997+j50.352	3.58	2.35	6.189+j19.462	14.977+j50.233
SUBESTACIÓN CULIACÁN POTENCIA	SCP-230	230.0	8.56	10.04	3.119+j15.192	1.082+j8.397	12.73	13.87	1.590+j11.366	1.076+j8.140
SUBESTACIÓN CULIACÁN POTENCIA	SCP-115	115.0	13.94	14.69	0.920+j4.673	0.423+j3.972	20.27	19.72	0.495+j3.569	0.440+j3.741
SUBESTACIÓN DIEZ	SBZ-115	115.0	2.97	1.95	6.566+j21.379	14.839+j55.730	3.47	2.20	6.027+j20.140	14.822+j55.614
SUBESTACIÓN DOS	SBD-115	115.0	5.93	4.73	2.697+j10.858	4.977+j19.115	7.46	5.59	2.120+j9.552	4.957+j18.996
SUBESTACIÓN ESDE	SES-230	230.0	6.10	4.88	6.454+j20.779	8.901+j37.387	8.23	5.97	4.096+j17.272	8.860+j36.660
SUBESTACIÓN GUAYMAS UNO	SGU-115	115.0	11.30	8.10	0.978+j5.791	2.568+j12.627	13.50	9.26	0.836+j5.347	2.566+j12.601
SUBESTACIÓN NUEVE	SBN-115	115.0	1.78	1.14	12.665+j35.035	29.969+j95.743	2.04	1.27	12.065+j33.763	29.949+j95.624
SUBESTACIÓN OCHO	SBO-115	115.0	1.75	1.18	13.035+j35.584	26.801+j88.835	2.00	1.32	12.486+j34.355	26.784+j88.718
SUBESTACIÓN PERICOS	SPE-115	115.0	4.34	2.87	4.217+j14.701	10.842+j37.267	5.08	3.25	3.886+j13.853	10.834+j36.957
SUBESTACIÓN PONIENTE	SPO-230	230.0	5.74	4.55	6.934+j22.091	9.849+j40.456	7.56	5.50	4.592+j18.778	9.807+j39.730
SUBESTACIÓN PUNTO P	SPP-115	115.0	9.16	8.37	1.650+j7.060	1.359+j9.241	12.34	10.41	1.119+j5.813	1.343+j9.125
SUBESTACIÓN SANTA INÉS	STI-115	115.0	3.73	2.77	5.582+j16.903	9.621+j35.096	4.44	3.17	5.041+j15.665	9.604+j34.980
SUBESTACIÓN SEIS	SBS-115	115.0	2.55	1.83	6.816+j25.128	20.126+j53.246	2.96	2.07	6.271+j23.877	20.105+j53.127
SUBESTACIÓN SIETE	SBE-115	115.0	4.43	3.11	4.510+j14.277	8.374+j33.022	5.36	3.58	3.973+j13.036	8.357+j32.906
SUBESTACIÓN TRES	SBT-115	115.0	4.56	3.28	4.357+j13.904	8.175+j30.540	5.52	3.78	3.819+j12.661	8.158+j30.423
SUBESTACIÓN UNO	SBU-115	115.0	2.38	1.69	9.322+j26.240	17.489+j59.688	2.76	1.90	8.776+j25.008	17.472+j59.571
SUBESTACIÓN VILLA UNIÓN	SVU-115	115.0	8.88	7.57	1.598+j7.308	2.557+j11.038	12.10	9.64	1.091+j5.934	2.505+j10.360
TAMAZULA	TZU-115	115.0	5.77	4.24	2.656+j11.204	6.517+j22.934	7.14	5.00	2.218+j9.982	6.500+j22.117
TASTIOTA	TST-115	115.0	2.11	1.42	9.409+j30.011	24.188+j73.423	2.43	1.60	8.816+j28.720	24.168+j73.304
TEACAPÁN	TEA-115	115.0	1.40	0.84	10.607+j46.286	40.716+j136.005	1.59	0.94	10.000+j44.930	40.633+j135.253
TECNOLÓGICO HERMOSILLO	TCG-115	115.0	10.45	8.15	1.376+j6.205	2.450+j11.503	14.36	10.14	0.861+j5.012	2.468+j11.181
TERRAMARA	TER-115	115.0	2.95	1.83	8.033+j21.034	19.566+j60.496	3.48	2.08	7.323+j19.651	19.530+j60.232
TETABIAE	TTB-115	115.0	12.15	10.49	0.949+j5.380	1.586+j7.884	15.18	12.50	0.746+j4.753	1.579+j7.683
TOBARITO	TBR-115	115.0	6.48	4.45	2.403+j9.954	6.347+j23.447	7.61	5.05	2.199+j9.336	6.335+j23.267
TOPOLOBAMPO	TPO-230	230.0	7.45	6.44	2.406+j17.667	4.508+j25.131	12.77	13.02	0.989+j11.399	0.863+j10.292
TOPOLOBAMPO	TPO-115	115.0	6.68	3.52	2.272+j9.681	9.069+j35.422	7.92	3.99	2.067+j8.989	9.043+j35.230
TOPOLOBAMPO DOS	TPD-400	400.0	11.79	13.77	1.900+j19.497	0.496+j10.237	15.26	17.30	1.002+j16.619	0.481+j10.040
TRES RÍOS	TSR-115	115.0	13.10	12.52	1.047+j4.961	1.132+j5.608	18.54	17.29	0.621+j3.890	0.857+j4.588
UNIÓN ENERGÉTICA DEL NOROESTE	UEN-230	230.0	7.97	8.29	2.456+j16.475	2.567+j15.106	15.30	16.48	0.717+j9.519	0.660+j6.719
URES	URE-115	115.0	1.94	1.17	9.452+j32.863	27.678+j97.633	2.22	1.31	8.908+j31.622	27.650+j97.104
VALLE DEL MAYO	VMY-115	115.0	4.47	3.02	3.364+j14.470	10.382+j34.648	5.47	3.52	2.858+j13.047	10.277+j34.006
VALLE DEL YAQUI	VDY-115	115.0	5.13	3.57	3.981+j12.317	8.404+j28.717	5.88	4.00	3.824+j11.817	8.419+j28.673
VALLE DEL YAQUI DOS	VYD-115	115.0	3.84	2.36	4.386+j16.719	14.411+j47.836	4.39	2.64	4.180+j16.104	14.400+j47.655
VENADILLO	VND-115	115.0	10.06	7.90	1.256+j6.480	1.746+j11.885	14.49	10.28	0.716+j4.990	1.685+j11.090
VICAM	VCM-115	115.0	4.16	2.79	3.520+j15.581	9.902+j38.071	4.73	3.12	3.343+j15.065	9.901+j38.020
VILLA ÁNGEL FLORES	VAF-115	115.0	8.26	6.24	1.544+j7.889	3.327+j15.429	10.22	7.29	1.194+j7.048	3.328+j15.305
VILLA GUADALUPE	VGU-115	115.0	3.18	1.94	5.202+j20.194	14.828+j59.117	3.59	2.16	5.047+j19.686	14.844+j59.071
VILLA JUÁREZ	VIJ-115	115.0	2.71	1.69	6.524+j23.572	19.468+j66.290	3.16	1.92	6.012+j22.284	19.232+j65.265



Niveles de cortocircuito de la Red Nacional de Transmisión Gerencia de Control Regional Noroeste

Subestación Eléctrica	Acrónimo	Tensión (kV)	Corriente de cortocircuito (kA) e impedancias de Thévenin secuencias positiva y cero (Ω)							
			NCC mínimo 2026				NCC máximo 2026			
			3F	1F	ZTH(+)	ZTH(0)	3F	1F	ZTH(+)	ZTH(0)
VILLA MERCEDES	VME-115	115.0	6.01	4.69	2.780+j10.688	6.343+j19.443	7.50	5.56	2.297+j9.467	6.378+j18.927
VILLAS DEL CEDRO	VDC-115	115.0	11.38	10.27	1.325+j5.684	1.722+j7.480	15.46	13.42	0.910+j4.637	1.476+j6.597
VILLAS DEL PITIC	VPI-115	115.0	13.64	14.66	1.474+j4.640	1.179+j3.687	21.28	21.83	0.901+j3.311	1.048+j3.027
VIÑEDOS	VNO-115	115.0	4.79	2.99	4.521+j13.102	11.230+j37.297	5.86	3.45	3.934+j11.818	11.175+j36.909

Gerencia de Control Regional Norte



[Regresar a mapa del SEN](#)



Niveles de cortocircuito de la Red Nacional de Transmisión Gerencia de Control Regional Norte

Subestación Eléctrica	Acronímico	Tensión (kV)	Corriente de cortocircuito (kA) e impedancias de Thévenin secuencias positiva y cero (Ω)							
			NCC mínimo 2026				NCC máximo 2026			
			3F	1F	ZTH(+)	ZTH(0)	3F	1F	ZTH(+)	ZTH(0)
ABRAHAM GONZÁLEZ	ABG-115	115.0	4.94	4.11	3.443+j12.986	5.479+j20.892	6.69	5.56	2.232+j10.679	4.521+j17.039
AEROPUERTO	AEP-115	115.0	9.32	7.44	1.706+j6.919	4.204+j11.824	12.16	8.97	1.239+j5.877	4.202+j11.736
AGNICO EAGLE	AGE-115	115.0	2.06	2.27	8.681+j30.963	5.825+j22.603	2.32	2.55	8.172+j30.464	5.801+j22.228
ALDAMA	AMA-115	115.0	4.10	3.07	4.354+j15.584	12.414+j30.184	4.81	3.51	3.863+j14.677	12.337+j29.737
ALTARES	ATR-115	115.0	0.74	0.49	39.169+j80.480	102.013+j198.830	0.82	0.55	38.700+j79.839	101.961+j198.626
ALTAVISTA	ALV-115	115.0	2.20	2.02	11.316+j28.035	9.479+j37.212	2.53	2.32	10.194+j26.985	9.302+j35.805
ÁLVARO OBREGÓN	AVO-115	115.0	4.26	3.27	4.526+j14.915	10.253+j27.933	4.97	3.71	4.001+j14.135	10.248+j27.862
AMADO NERVO	AMN-115	115.0	2.10	2.05	12.017+j29.227	12.190+j31.509	2.37	2.30	11.751+j28.540	12.138+j31.374
AMÉRICAS	AMR-115	115.0	10.46	9.11	1.600+j6.143	2.402+j8.908	13.39	10.97	1.126+j5.336	2.377+j8.790
ANAPRA	APR-115	115.0	7.20	5.93	1.842+j9.041	5.476+j14.240	9.02	7.01	1.371+j7.983	5.483+j14.198
ARENALES	ARE-115	115.0	8.13	10.08	2.057+j7.903	0.497+j3.477	10.07	12.23	1.550+j7.085	0.490+j3.404
ARMENDÁRIZ	ARM-115	115.0	2.90	2.04	6.292+j22.044	17.223+j49.099	3.46	2.37	5.390+j20.401	16.802+j47.446
ASCENSIÓN	AON-115	115.0	4.70	4.80	2.482+j13.912	2.407+j13.067	5.41	5.47	2.210+j13.310	2.387+j12.882
ASCENSIÓN DOS	AOD-230	230.0	2.89	3.26	7.094+j45.377	2.217+j30.519	3.38	3.76	6.023+j42.852	2.114+j29.831
ASCENSIÓN DOS	AOD-115	115.0	4.99	6.32	2.081+j13.141	0.260+j4.954	5.76	7.29	1.813+j12.541	0.237+j4.717
AUMA	AUM-115	115.0	10.90	9.64	1.306+j5.952	2.006+j8.307	14.32	12.03	0.822+j5.032	1.904+j7.817
AUTLÁN	NAZ-230	230.0	10.88	11.15	2.264+j11.989	1.563+j11.271	17.14	16.80	1.052+j8.458	1.396+j8.949
AUTOMOTIVE LIGHTING	ALI-115	115.0	14.66	14.99	1.147+j4.382	1.085+j4.091	21.74	20.23	0.670+j3.292	1.080+j3.976
AVALOS	AVL-230	230.0	10.30	11.62	3.123+j12.510	1.197+j8.719	16.87	18.39	1.324+j8.556	0.996+j6.528
AVALOS	AVL-115	115.0	15.77	18.66	0.962+j4.098	0.241+j2.328	22.78	26.32	0.486+j3.168	0.198+j1.930
AZTECAS	AZT-115	115.0	12.03	10.65	1.445+j5.326	2.680+j7.203	16.67	13.41	0.986+j4.270	2.681+j7.126
BABISAS	BBS-115	115.0	3.63	2.78	6.107+j17.264	12.328+j32.729	5.26	4.83	3.757+j13.357	3.772+j17.190
BACIS	BAC-115	115.0	0.55	0.35	54.862+j108.092	39.802+j292.427	0.61	0.39	54.388+j107.470	39.748+j292.220
BASASEACHIC	BAS-115	115.0	2.37	2.82	7.537+j27.022	2.438+j14.543	2.66	3.17	7.023+j26.499	2.416+j14.186
BENITO JUÁREZ	BJZ-115	115.0	5.57	4.49	2.714+j11.605	7.803+j19.119	6.59	5.14	2.387+j10.822	7.803+j19.122
BIOPAPEL	BIO-115	115.0	5.41	5.00	3.021+j11.903	4.138+j14.718	6.33	5.74	2.773+j11.207	4.065+j14.549
BISMARCK	BSM-115	115.0	1.61	1.20	12.104+j39.338	30.322+j77.540	1.80	1.34	11.827+j38.742	30.297+j77.300
BOLÍVAR	BLV-115	115.0	1.66	1.44	13.194+j37.777	19.334+j55.053	1.89	1.63	12.048+j36.730	19.141+j53.623
BOQUILLA	BOQ-115	115.0	3.59	2.74	6.322+j17.366	12.691+j33.396	5.31	4.99	3.796+j13.226	2.962+j16.214
BUENA VISTA	BUV-115	115.0	2.51	2.06	5.926+j25.791	14.874+j41.371	2.83	2.30	5.651+j25.192	14.853+j41.185
BÚFALO	BUF-115	115.0	2.91	2.10	7.982+j21.338	17.630+j46.165	3.78	2.79	6.157+j18.309	12.986+j37.720
CAHUISORI POTENCIA	CPO-230	230.0	1.42	1.63	23.797+j90.744	2.458+j57.342	1.61	1.85	21.635+j88.158	2.374+j56.316
CAHUISORI POTENCIA	CPO-115	115.0	2.46	3.10	7.190+j26.038	0.486+j10.466	2.77	3.50	6.683+j25.531	0.462+j10.091
CAMARGO DOS	CGD-230	230.0	5.79	6.89	6.133+j22.091	1.155+j12.207	9.03	10.10	2.880+j15.916	1.150+j11.032
CAMARGO DOS	CGD-115	115.0	8.15	10.17	1.891+j7.920	0.171+j3.382	11.73	14.11	0.965+j6.149	0.176+j3.099
CAMARGO UNO	CGU-115	115.0	5.45	4.66	2.906+j11.834	3.862+j18.041	7.41	6.20	1.802+j9.693	3.438+j15.283
CANATLAN DOS	CND-115	115.0	4.66	5.28	2.700+j13.980	2.360+j8.974	5.48	6.13	2.357+j13.126	2.330+j8.797
CANATLAN DOS POTENCIA	CAP-230	230.0	3.33	3.44	6.631+j39.315	5.831+j35.632	4.08	4.08	5.309+j35.411	5.745+j35.297
CANATLAN DOS POTENCIA	CAP-115	115.0	4.89	5.76	2.369+j13.371	0.834+j7.377	5.76	6.73	2.031+j12.510	0.799+j7.191
CARICHIC	CRC-115	115.0	1.85	1.29	9.164+j34.767	24.279+j79.540	2.09	1.43	8.598+j33.921	24.284+j79.503



Subestación Eléctrica	Acrónimo	Tensión (kV)	Corriente de cortocircuito (kA) e impedancias de Thévenin secuencias positiva y cero (Ω)							
			NCC mínimo 2026				NCC máximo 2026			
			3F	1F	ZTH(+)	ZTH(0)	3F	1F	ZTH(+)	ZTH(0)
CAROLINAS	CAS-115	115.0	10.66	9.94	1.590+j6.025	2.190+j7.325	13.67	12.05	1.118+j5.225	2.161+j7.222
CARTAGENA	CAR-115	115.0	12.30	11.21	1.410+j5.209	2.239+j6.626	17.21	14.23	0.936+j4.140	2.242+j6.556
CASAS GRANDES	CGR-115	115.0	7.26	6.92	1.623+j9.000	2.250+j10.263	8.61	8.00	1.347+j8.373	2.242+j10.200
CATEDRAL	CAT-115	115.0	0.84	0.60	31.954+j72.123	68.589+j161.967	0.94	0.66	30.761+j71.402	68.349+j160.463
CATERPILLAR	CTP-115	115.0	12.21	10.27	1.064+j5.334	1.983+j8.295	15.13	12.10	0.831+j4.755	1.986+j8.233
CEMENTOS SAMALAYUCA	CMS-115	115.0	4.80	3.81	3.527+j13.377	9.394+j22.894	5.85	4.43	2.979+j12.122	9.387+j22.782
CERESO	CER-115	115.0	7.40	6.59	2.226+j8.696	4.377+j11.498	9.59	8.01	1.687+j7.430	4.370+j11.386
CERESO JUÁREZ	CEJ-115	115.0	6.81	5.91	2.425+j9.448	5.173+j13.307	8.70	7.10	1.884+j8.183	5.166+j13.195
CERRO DEL MERCADO	CME-115	115.0	8.24	8.04	1.715+j7.873	2.803+j8.248	10.16	9.54	1.402+j7.047	2.798+j8.175
CERROS BLANCOS	CRB-115	115.0	1.48	0.98	12.168+j43.296	40.196+j106.663	1.65	1.08	11.848+j42.611	40.193+j106.642
CHALCHIHUITES	CHL-115	115.0	1.26	0.85	17.336+j49.653	52.380+j117.960	1.41	0.94	16.962+j49.021	52.336+j117.840
CHAMIZAL	CZL-115	115.0	14.52	14.65	1.143+j4.426	1.086+j4.324	21.41	19.57	0.672+j3.345	1.085+j4.244
CHARCOS	CHA-115	115.0	0.82	0.56	24.975+j77.062	80.551+j179.843	0.91	0.61	24.602+j76.415	80.506+j179.721
CHAVEÑA	CVA-115	115.0	12.87	12.08	1.301+j4.992	1.863+j5.897	18.21	15.50	0.832+j3.924	1.868+j5.838
CHIHUAHUA NORTE	CUN-230	230.0	9.03	8.75	3.521+j14.271	3.290+j16.032	13.30	11.77	1.843+j10.824	3.183+j15.023
CHIHUAHUA NORTE	CUN-115	115.0	12.82	14.16	1.270+j5.020	0.601+j3.735	17.02	17.87	0.803+j4.216	0.573+j3.655
CHIHUAHUA PLANTA	CUP-115	115.0	12.36	11.55	1.374+j5.193	1.811+j6.308	16.40	14.35	0.892+j4.363	1.777+j6.139
CHIHUAHUA PONIENTE	CPN-115	115.0	10.14	8.83	1.718+j6.319	3.033+j9.052	12.93	10.62	1.256+j5.508	3.017+j8.880
CHUVISCAR	CHU-230	230.0	9.33	9.91	3.267+j13.858	1.833+j11.886	14.92	17.22	1.416+j9.690	0.595+j5.932
CHUVISCAR	CHU-115	115.0	14.65	16.66	1.053+j4.410	0.372+j2.946	20.67	23.18	0.571+j3.486	0.244+j2.405
CIÉNEGA	CIE-115	115.0	0.57	0.36	55.176+j102.378	137.807+j287.742	0.63	0.40	54.711+j101.787	137.753+j287.536
CIÉNEGA DOS	CID-115	115.0	0.58	0.37	54.324+j101.112	135.924+j282.863	0.64	0.40	53.858+j100.519	135.870+j282.656
CLID	CLI-115	115.0	6.51	5.59	2.378+j9.912	7.729+j13.563	8.18	6.64	1.889+j8.721	7.723+j13.486
COLEGIO	CLG-115	115.0	13.30	11.87	1.322+j4.813	2.222+j6.436	19.08	15.27	0.842+j3.734	2.220+j6.339
COLINA	CLN-115	115.0	3.31	2.48	7.227+j18.707	16.207+j36.853	4.70	4.14	4.833+j14.770	6.775+j20.750
COMPLEJO DE SEGURIDAD	CSG-115	115.0	9.38	8.10	1.717+j6.870	3.284+j9.997	12.02	9.89	1.232+j5.951	3.196+j9.534
COMPLEJO INDUSTRIAL	CIN-115	115.0	10.59	9.91	1.667+j6.046	2.271+j7.283	13.59	12.03	1.187+j5.243	2.241+j7.157
COMPLEJO LALA	CLA-115	115.0	13.83	10.17	1.114+j4.669	3.164+j9.491	17.33	11.98	0.886+j4.120	3.157+j9.369
COMPONENTES	COM-115	115.0	11.32	11.25	1.530+j5.660	1.547+j5.840	14.69	13.81	1.058+j4.859	1.518+j5.745
CONCHEÑO	CON-115	115.0	1.93	2.03	9.721+j33.012	8.243+j27.987	2.15	2.26	9.295+j32.651	8.306+j27.727
CONCORDIA	CCD-115	115.0	13.26	13.50	1.141+j4.877	0.991+j4.706	18.22	17.82	0.658+j3.955	0.888+j4.213
CONDEMBARO	LSC-115	115.0	10.06	8.21	1.825+j6.346	3.961+j10.362	12.34	9.59	1.565+j5.708	3.965+j10.296
CONEJOS MÉDANOS	CJM-115	115.0	2.54	2.73	6.724+j25.312	4.156+j20.320	3.21	3.33	5.202+j22.150	4.054+j19.874
CORONEL	CRN-115	115.0	8.68	5.90	1.489+j7.505	4.538+j17.890	10.49	6.80	1.198+j6.859	4.527+j17.756
CREEL	CRL-115	115.0	1.24	0.95	18.312+j50.182	40.610+j94.214	1.39	1.06	17.682+j49.590	40.563+j93.952
CUADRO DE MANIOBRAS BISMARCK	CMB-115	115.0	2.38	2.02	6.224+j27.143	15.888+j40.166	2.68	2.26	5.948+j26.547	15.863+j39.926
CUADRO DE MANIOBRAS BORDER	MBO-230	230.0	10.68	10.75	2.243+j12.224	2.508+j11.962	17.97	15.69	0.945+j8.074	2.540+j11.429
CUADRO DE MANIOBRAS CEMENTOS	CMC-115	115.0	5.07	4.07	3.328+j12.663	8.628+j21.152	6.22	4.75	2.782+j11.406	8.622+j21.040
CUADRO DE MANIOBRAS ELECTROLUX	CME-115	115.0	16.31	18.07	0.942+j3.959	0.518+j2.844	25.05	25.39	0.490+j2.874	0.518+j2.757
CUADRO DE MANIOBRAS FOXCONN	TRS-400	400.0	7.23	8.23	5.170+j31.502	1.725+j20.421	10.28	10.98	2.642+j24.576	1.780+j19.902



Subestación Eléctrica	Acronónimo	Tensión (kV)	Corriente de cortocircuito (kA) e impedancias de Thévenin secuencias positiva y cero (Ω)							
			NCC mínimo 2026				NCC máximo 2026			
			3F	1F	ZTH(+)	ZTH(0)	3F	1F	ZTH(+)	ZTH(0)
CUADRO DE MANIOBRAS FOXCONN	CMF-115	115.0	9.57	7.76	1.664+j6.732	4.080+j11.125	12.57	9.39	1.198+j5.686	4.079+j11.040
CUADRO DE MANIOBRAS GUADALUPE AGUILERA	MGA-230	230.0	4.26	4.56	5.003+j30.737	4.010+j24.774	5.42	5.56	3.705+j26.710	4.017+j24.599
CUADRO DE MANIOBRAS INTERNACIONAL WIRE	CMI-115	115.0	8.15	7.95	1.699+j7.962	3.106+j8.264	10.21	9.53	1.346+j7.028	3.099+j8.188
CUADRO DE MANIOBRAS LA LUCHA	MLU-230	230.0	4.63	4.68	5.326+j28.213	3.602+j27.610	6.11	5.82	3.466+j23.670	3.611+j27.219
CUADRO DE MANIOBRAS LA PARRILLA	CMP-115	115.0	1.72	1.33	15.067+j35.508	27.985+j67.191	1.93	1.48	14.800+j34.821	27.932+j67.056
CUADRO DE MANIOBRAS NAICA	NAC-115	115.0	2.73	1.91	10.920+j21.709	20.530+j51.825	3.44	2.45	9.522+j18.953	17.042+j43.996
CUADRO DE MANIOBRAS SAN FRANCISCO	PDA-115	115.0	1.62	0.93	18.064+j36.770	45.091+j124.001	1.81	1.03	17.733+j36.274	45.059+j123.744
CUADRO DE MANIOBRAS SAN FRANCISCO	CMF-115	115.0	2.71	2.97	8.370+j23.015	2.846+j18.157	3.16	3.48	7.249+j21.919	2.671+j16.756
CUADRO DE MANIOBRAS VITROMEX	VIM-115	115.0	12.98	13.20	1.208+j4.969	1.225+j4.770	17.77	17.30	0.727+j4.046	1.148+j4.323
CUATRO SIGLOS	CSS-115	115.0	10.43	8.77	1.766+j6.113	3.435+j9.393	14.10	10.86	1.274+j5.021	3.419+j9.238
CUAUHTÉMOC	CHC-115	115.0	7.18	7.93	2.594+j8.873	1.845+j6.431	8.84	9.47	2.041+j8.002	1.851+j6.399
CUAUHTÉMOC DOS	CHD-230	230.0	5.21	6.29	6.557+j24.608	1.219+j12.747	6.74	7.85	4.602+j21.178	1.216+j12.566
CUAUHTÉMOC DOS	CHD-115	115.0	8.48	11.00	1.965+j7.579	0.175+j2.543	10.56	13.48	1.460+j6.760	0.168+j2.470
CUESTA	CUE-115	115.0	13.32	12.20	1.362+j4.795	2.089+j6.020	19.54	16.38	0.852+j3.639	1.924+j5.599
DELICIAS	DEL-115	115.0	7.13	6.13	2.098+j9.073	2.534+j13.716	9.74	8.05	1.205+j7.399	2.116+j12.067
DELICIAS DOS	DLD-115	115.0	7.28	6.16	2.258+j8.832	6.256+j12.859	10.06	8.16	1.351+j7.136	5.837+j11.210
DELPHI	DPH-115	115.0	14.84	11.78	0.961+j4.368	2.281+j7.651	18.81	14.00	0.737+j3.813	2.282+j7.566
DELPHI	DLP-115	115.0	14.74	15.18	1.143+j4.358	1.067+j3.975	21.88	20.51	0.666+j3.271	1.063+j3.872
DIAGONAL	DGN-115	115.0	11.38	8.56	1.098+j5.733	2.981+j11.241	14.05	10.01	0.849+j5.130	2.978+j11.122
DINAMITA	DIN-115	115.0	4.75	3.04	3.339+j13.572	11.109+j35.951	5.45	3.41	3.088+j13.047	11.091+j35.791
DIVISADERO	DIV-115	115.0	0.94	0.68	26.846+j65.689	62.303+j139.653	1.04	0.75	26.194+j65.157	62.251+j139.384
DIVISIÓN DEL NORTE	DDN-230	230.0	9.12	8.85	3.367+j14.170	3.295+j15.786	13.60	11.96	1.693+j10.605	3.242+j14.912
DIVISIÓN DEL NORTE	DDN-115	115.0	13.78	15.21	1.188+j4.670	0.594+j3.478	18.65	19.49	0.725+j3.848	0.572+j3.390
DUNAS	DUN-115	115.0	3.86	2.87	4.554+j16.589	13.608+j32.465	4.61	3.29	4.007+j15.334	13.601+j32.353
DURANGO DOS	DGD-230	230.0	7.63	8.50	2.842+j17.164	1.800+j11.969	10.32	10.94	1.844+j14.038	1.807+j11.622
DURANGO DOS	DGD-115	115.0	11.00	13.40	1.063+j5.942	0.287+j2.800	14.19	16.83	0.758+j5.092	0.279+j2.721
DURANGO UNO	DGU-115	115.0	9.42	9.67	1.378+j6.914	1.910+j6.234	11.81	11.66	1.081+j6.089	1.908+j6.171
DURAPLAY	DUR-115	115.0	2.18	2.00	11.386+j28.268	9.727+j37.778	2.51	2.29	10.264+j27.218	9.550+j36.371
EL CAPULIN	ECU-115	115.0	3.77	3.02	4.096+j17.123	10.892+j28.916	4.31	3.39	3.816+j16.504	10.886+j28.849
EL SALTO	ESL-115	115.0	1.24	0.79	19.884+j49.490	64.812+j130.434	1.38	0.87	19.849+j49.180	64.810+j130.369
EL SAUCITO	SAU-115	115.0	9.70	7.81	1.791+j6.605	3.108+j11.466	12.27	9.28	1.316+j5.803	3.083+j11.334
EL SAUZ	ESZ-115	115.0	3.19	2.47	8.287+j19.063	14.859+j36.106	3.67	2.78	7.813+j18.283	14.831+j36.026
EL TRÉBOL	TRE-115	115.0	1.75	1.36	9.967+j36.524	14.175+j69.505	2.09	1.56	8.275+j34.009	14.136+j69.038
EL VERGEL	ELV-115	115.0	8.73	5.51	1.539+j7.448	4.668+j20.435	10.41	6.29	1.295+j6.895	4.652+j20.263
ENCINO	ENO-400	400.0	6.26	7.06	6.709+j36.300	1.428+j25.066	9.54	10.24	2.466+j26.515	1.012+j21.466
ENCINO	ENO-230	230.0	13.21	16.77	2.313+j9.780	0.294+j3.969	24.18	29.95	0.756+j5.993	0.186+j2.653
ENCINO DOS	END-230	230.0	13.21	16.66	2.312+j9.782	0.333+j4.122	23.95	29.02	0.764+j6.052	0.285+j2.999
EÓLICA HUIMILPAN (SAN PEDRO) MANIOBRAS IXMIQUILPAN	MAU-115	115.0	14.32	10.09	0.955+j4.539	2.111+j10.267	18.11	11.90	0.717+j3.969	2.101+j10.131
ESCALÓN	ESC-115	115.0	1.90	1.21	13.367+j32.235	32.474+j89.738	2.17	1.36	12.683+j31.122	32.097+j88.834
FLEXTRONICS	FLE-115	115.0	14.16	13.69	1.015+j4.578	1.651+j4.931	20.67	18.04	0.570+j3.486	1.653+j4.848



Subestación Eléctrica	Acrónimo	Tensión (kV)	Corriente de cortocircuito (kA) e impedancias de Thévenin secuencias positiva y cero (Ω)							
			NCC mínimo 2026				NCC máximo 2026			
			3F	1F	ZTH(+)	ZTH(0)	3F	1F	ZTH(+)	ZTH(0)
FORD	FRD-115	115.0	11.26	11.26	1.518+j5.698	1.540+j5.761	14.58	13.82	1.046+j4.897	1.512+j5.665
FORD MANIOBRAS	FOM-115	115.0	11.64	11.84	1.464+j5.514	1.342+j5.309	15.16	14.62	0.991+j4.714	1.313+j5.213
FOXCONN DOS	FXD-115	115.0	4.65	2.23	2.825+j14.002	24.095+j56.432	5.55	2.51	2.343+j12.957	24.102+j56.390
FRANCISCO VILLA	FVL-230	230.0	7.33	7.65	4.864+j17.443	2.904+j15.868	13.87	15.13	1.608+j10.404	0.827+j7.930
FRANCISCO VILLA	FVL-115	115.0	9.69	10.47	1.538+j6.679	0.593+j5.363	14.53	15.94	0.664+j4.982	0.176+j3.715
FUENTES	FTS-115	115.0	10.95	9.29	1.671+j5.831	3.224+j8.755	14.93	11.56	1.183+j4.747	3.214+j8.628
FUENTES MARES	FMR-115	115.0	13.76	13.73	1.107+j4.697	0.897+j4.840	19.06	17.96	0.630+j3.781	0.856+j4.478
FUNDILAG	FDL-115	115.0	11.00	8.98	1.231+j5.907	2.664+j9.768	13.47	10.49	0.997+j5.328	2.667+j9.706
GALEANA	GNA-115	115.0	3.17	2.35	5.282+j20.284	16.314+j39.867	3.61	2.63	4.979+j19.628	16.310+j39.831
GAMMON LAKE	GML-115	115.0	1.85	1.92	9.367+j34.680	9.350+j30.608	2.07	2.14	8.860+j34.175	9.325+j30.232
GASASEACHIC	GAS-115	115.0	1.95	2.07	9.616+j32.633	7.836+j27.061	2.18	2.31	9.190+j32.271	7.898+j26.801
GAVILÁN	GAV-115	115.0	1.44	1.01	13.035+j44.078	42.325+j97.301	1.62	1.12	12.662+j43.239	42.325+j97.318
GÉMINIS	GEM-115	115.0	12.25	10.98	1.470+j5.216	2.567+j6.858	17.09	13.91	1.020+j4.149	2.565+j6.767
GENERAL TRÍAS	GTR-115	115.0	4.67	3.61	3.446+j13.801	10.391+j24.898	5.48	4.11	2.947+j12.989	10.381+j24.840
GRANJERO	GJO-115	115.0	12.76	12.03	1.355+j5.024	2.616+j5.640	18.07	15.54	0.871+j3.946	2.596+j5.523
GRUPO ESSEX MÉXICO	GEX-115	115.0	9.97	8.57	1.637+j6.453	3.157+j9.440	12.12	10.00	1.391+j5.865	3.159+j9.364
GUACHOCHI	GCH-115	115.0	0.67	0.49	30.809+j94.023	82.476+j193.038	0.75	0.54	29.617+j93.077	82.239+j191.537
GUADALUPE VICTORIA	GVR-115	115.0	1.90	1.44	11.364+j32.959	8.923+j69.213	2.17	1.61	10.841+j31.832	8.916+j69.136
GUADIANA	GDN-115	115.0	6.79	5.78	2.338+j9.499	5.365+j13.975	8.18	6.70	2.021+j8.692	5.364+j13.911
GUANACEVI	GVI-115	115.0	0.57	0.39	42.033+j109.471	109.619+j249.787	0.63	0.44	40.827+j108.659	109.359+j248.253
GUENACEVI DURANGO	GVD-115	115.0	0.58	0.41	40.826+j106.236	106.010+j241.621	0.65	0.45	39.619+j105.417	105.750+j240.086
HACIENDAS	HDS-115	115.0	9.23	7.59	1.875+j6.945	3.365+j11.440	11.60	9.01	1.409+j6.137	3.348+j11.280
HÉRCULES	HCL-230	230.0	1.15	0.95	29.841+j111.326	42.823+j185.245	1.37	1.09	24.590+j104.050	42.680+j183.464
HÉRCULES POTENCIA	HCP-400	400.0	3.12	2.03	8.336+j73.467	50.022+j187.518	3.86	2.39	5.416+j65.658	49.209+j182.038
HUMEDADES	LRT-115	115.0	7.97	6.14	3.151+j7.708	5.910+j14.670	9.58	7.08	2.876+j7.057	5.906+j14.554
IBERDROLA	IEL-115	115.0	27.51	33.42	0.441+j2.373	0.075+j1.148	39.48	46.38	0.233+j1.835	0.070+j1.027
INDUSTRIAL JUÁREZ	INJ-115	115.0	14.17	13.69	1.250+j4.515	1.669+j4.913	21.10	19.05	0.767+j3.376	1.361+j4.384
INDUSTRIAS SUPERIOR	ISP-115	115.0	11.24	11.22	1.519+j5.710	1.556+j5.795	14.55	13.77	1.047+j4.910	1.527+j5.700
INSURGENTES	IGS-115	115.0	15.07	16.62	1.062+j4.275	0.583+j3.133	22.40	22.67	0.602+j3.204	0.591+j3.092
INTERCERAMIC	ITC-115	115.0	10.43	9.69	1.694+j6.138	2.376+j7.522	13.35	11.74	1.214+j5.335	2.345+j7.395
INTERMEX ORIENTE	INO-115	115.0	12.51	13.17	1.293+j5.149	3.562+j3.519	17.60	17.28	0.818+j4.069	3.549+j3.429
INTERMEX SUR	INS-115	115.0	13.35	13.15	1.173+j4.834	1.463+j4.993	19.13	17.20	0.720+j3.749	1.464+j4.906
INTERNATIONAL WIRE	INW-115	115.0	8.02	7.85	1.739+j8.094	3.131+j8.320	10.01	9.39	1.386+j7.160	3.124+j8.245
JABIL	JAB-115	115.0	10.34	9.58	1.707+j6.191	2.426+j7.634	13.22	11.60	1.227+j5.388	2.396+j7.508
JANOS	JOS-115	115.0	4.57	3.98	2.813+j14.263	5.501+j20.348	5.26	4.50	2.536+j13.653	5.492+j20.234
JARDÍN	JAR-115	115.0	15.27	12.90	0.999+j4.231	1.837+j6.500	19.83	16.02	0.739+j3.608	1.733+j6.075
JERÓNIMO ORTIZ MARTÍNEZ	JOM-400	400.0	5.26	4.94	5.518+j43.531	5.280+j52.354	6.75	5.96	3.155+j37.516	5.356+j52.276
JERÓNIMO ORTIZ MARTÍNEZ	JOM-230	230.0	8.90	10.81	2.200+j14.756	0.660+j7.010	12.04	14.15	1.348+j12.053	0.675+j6.686
JERÓNIMO ORTIZ MARTÍNEZ	JOM-115	115.0	11.29	14.00	0.907+j5.812	0.155+j2.482	14.37	17.42	0.646+j5.043	0.153+j2.416
JIMÉNEZ	JEZ-115	115.0	3.77	2.91	5.590+j16.725	12.122+j30.880	4.78	3.56	4.357+j14.660	11.232+j28.985



Niveles de cortocircuito de la Red Nacional de Transmisión
Gerencia de Control Regional Norte

Subestación Eléctrica	Acrónimo	Tensión (kV)	Corriente de cortocircuito (kA) e impedancias de Thévenin secuencias positiva y cero (Ω)							
			NCC mínimo 2026				NCC máximo 2026			
			3F	1F	ZTH(+)	ZTH(0)	3F	1F	ZTH(+)	ZTH(0)
JUÁREZ	JRZ-115	115.0	10.18	8.36	1.531+j6.343	3.173+j10.324	13.54	10.21	1.072+j5.286	3.169+j10.222
KILOMETRO OCHENTA Y OCHO	KOO-115	115.0	4.77	3.58	3.885+j13.367	7.447+j26.905	6.05	4.35	2.993+j11.705	7.027+j25.253
LA FLOR	LAF-115	115.0	1.59	1.15	9.535+j40.563	35.687+j82.660	1.79	1.28	9.268+j39.791	35.684+j82.593
LA MORA	EDU-115	115.0	6.72	4.62	2.465+j9.571	8.097+j22.004	7.86	5.23	2.231+j9.025	8.090+j21.881
LA PARILLA	LPA-115	115.0	1.63	1.23	15.633+j37.679	30.668+j74.160	1.82	1.37	15.366+j36.992	30.616+j74.025
LA PERLA	LPL-115	115.0	2.92	3.08	6.529+j21.798	6.415+j18.101	3.57	3.67	5.236+j19.761	6.390+j17.714
LA SALADA	LSA-115	115.0	1.78	1.41	8.659+j36.359	25.677+j62.369	1.99	1.56	8.381+j35.764	25.652+j62.129
LA TRINIDAD	LTR-230	230.0	9.10	10.73	1.848+j14.480	0.733+j7.952	12.92	15.24	1.026+j11.256	0.472+j6.166
LA UNIÓN	LAU-115	115.0	18.44	13.67	0.767+j3.517	1.807+j7.160	24.24	16.51	0.541+j2.964	1.797+j7.026
LAGOS	LAG-115	115.0	13.08	11.94	1.421+j4.874	2.257+j6.145	18.80	15.57	0.923+j3.774	2.212+j5.928
LAGUNA ENCINILLAS	LEN-230	230.0	3.69	2.56	5.871+j35.467	21.879+j81.471	4.46	2.94	4.499+j32.463	21.860+j81.142
LALA	LAL-115	115.0	19.64	17.23	0.737+j3.299	1.313+j4.628	26.66	22.74	0.492+j2.695	1.108+j4.014
LAS CUATAS	CUA-115	115.0	2.18	1.56	4.668+j30.061	26.618+j62.103	2.48	1.75	4.332+j29.169	26.618+j62.119
LÁZARO CÁRDENAS	LCS-115	115.0	5.27	3.90	3.044+j12.224	7.060+j24.998	6.77	4.78	2.121+j10.578	6.641+j23.347
LEBARON	LEB-115	115.0	1.77	1.25	10.045+j36.048	33.117+j77.879	1.99	1.39	9.738+j35.399	33.113+j77.843
LEONI CABLE	LEO-115	115.0	7.98	9.13	2.098+j8.054	1.214+j5.105	9.86	10.97	1.592+j7.237	1.207+j5.032
LEXMARK	LEX-115	115.0	10.37	8.59	1.582+j6.205	3.868+j9.682	13.90	10.54	1.126+j5.132	3.870+j9.599
LEXMARK DOS	LXD-115	115.0	10.60	9.30	1.208+j6.149	3.174+j8.391	14.27	11.52	0.759+j5.061	3.175+j8.308
LIBERTAD	LTD-115	115.0	12.53	10.99	1.476+j5.090	2.441+j7.128	17.95	14.39	0.977+j3.951	2.259+j6.734
LIBERTAD (MONTEMORELOS)	SPD-115	115.0	6.24	4.50	2.483+j10.348	6.428+j22.071	7.49	5.18	2.067+j9.530	6.412+j21.900
LIBERTAD (VICTORIA)	TRR-115	115.0	12.40	9.41	0.995+j5.260	2.537+j10.155	15.56	11.14	0.733+j4.638	2.523+j9.992
LÓPEZ MATEOS	LZM-115	115.0	3.50	3.34	5.152+j18.251	7.466+j20.561	4.04	3.79	4.583+j17.488	7.450+j20.422
MANIOBRAS BAHUICHIVO	MBH-115	115.0	0.79	0.55	32.956+j76.882	77.456+j180.165	0.88	0.61	32.295+j76.384	77.402+j179.893
MANIOBRAS CENTAURO	MAC-115	115.0	5.51	5.10	2.924+j11.686	4.135+j14.362	6.46	5.86	2.673+j10.987	4.067+j14.202
MANIOBRAS CERRO DEL MERCADO	MCM-115	115.0	7.76	6.93	1.875+j8.354	4.042+j10.960	9.49	8.14	1.561+j7.532	4.038+j10.892
MANIOBRAS CIENTO OCHO	MCO-115	115.0	4.59	3.65	4.157+j13.852	7.545+j24.639	5.39	4.15	3.636+j13.063	7.540+j24.571
MANIOBRAS MARÍA SOLAR	MMS-230	230.0	4.00	4.72	5.331+j32.746	1.365+j18.132	5.12	5.83	3.773+j28.287	1.369+j18.127
MANIOBRAS MINA MULATOS	MMT-115	115.0	1.19	1.02	17.309+j52.908	31.233+j78.992	1.44	1.27	14.763+j48.481	25.910+j66.802
MANIOBRAS MVC	MVC-115	115.0	8.38	8.26	1.550+j7.766	2.445+j7.942	10.44	9.87	1.227+j6.886	2.443+j7.879
MANIOBRAS PARQUE EÓLICO	MPE-115	115.0	1.39	0.72	13.141+j45.951	82.327+j162.869	1.52	0.79	13.387+j46.170	82.296+j162.649
MANIOBRAS PEÑOLES	MPL-230	230.0	9.62	8.77	2.664+j13.544	3.670+j17.495	14.54	12.70	1.381+j9.950	3.068+j14.114
MANIOBRAS SABINAS	MAS-115	115.0	1.26	0.81	21.317+j48.375	54.587+j129.610	1.40	0.90	20.945+j47.764	54.543+j129.490
MANIOBRAS SANTA ROSA	MSR-115	115.0	3.97	3.06	4.388+j16.121	12.458+j29.309	4.63	3.47	3.860+j15.303	12.457+j29.268
MANIOBRAS TREINTA Y CUATRO	MTC-115	115.0	5.43	5.14	3.426+j11.732	5.066+j13.507	6.49	5.95	2.867+j10.877	5.071+j13.470
MANIOBRAS VILLANUEVA	MVI-400	400.0	6.63	6.96	5.040+j34.440	3.954+j29.752	9.28	9.05	2.637+j27.242	3.944+j29.277
MANITOBA	MBA-115	115.0	5.66	4.67	2.863+j11.378	4.324+j18.786	6.74	5.36	2.347+j10.572	4.318+j18.720
MANTE	SCT-115	115.0	19.99	18.85	0.687+j3.249	1.076+j3.786	26.95	24.25	0.453+j2.672	0.987+j3.492
MAPIMI	MPI-115	115.0	2.57	1.49	5.480+j25.206	19.590+j80.097	2.89	1.65	5.219+j24.684	19.561+j79.922
MASISA	MSS-115	115.0	6.40	5.68	2.294+j10.126	5.091+j13.449	7.68	6.59	1.979+j9.302	5.086+j13.377
MÉDANOS	MED-115	115.0	11.02	8.91	1.421+j5.858	3.342+j9.778	14.98	11.01	0.938+j4.783	3.329+j9.644



Niveles de cortocircuito de la Red Nacional de Transmisión
Gerencia de Control Regional Norte

Subestación Eléctrica	Acrónimo	Tensión (kV)	Corriente de cortocircuito (kA) e impedancias de Thévenin secuencias positiva y cero (Ω)							
			NCC mínimo 2026				NCC máximo 2026			
			3F	1F	ZTH(+)	ZTH(0)	3F	1F	ZTH(+)	ZTH(0)
MENONITAS	MEN-115	115.0	2.84	2.34	6.558+j22.455	14.281+j35.678	3.24	2.63	6.030+j21.697	14.270+j35.563
MEOQUI	MOQ-115	115.0	5.69	4.28	2.809+j11.324	7.740+j22.026	7.42	5.32	1.886+j9.667	7.321+j20.375
MESTEÑAS	MES-230	230.0	1.97	2.27	18.426+j65.001	2.686+j41.445	2.48	2.79	13.521+j57.313	2.562+j39.716
MESTEÑAS	MES-115	115.0	3.41	4.36	5.243+j18.770	0.365+j6.942	4.27	5.39	3.906+j16.671	0.331+j6.492
MILENIO	MIL-115	115.0	7.69	7.42	1.699+j8.464	3.254+j9.079	9.36	8.73	1.419+j7.671	3.253+j9.018
MINA CERRO DEL MERCADO	CDM-115	115.0	7.63	6.30	1.928+j8.485	5.220+j13.316	9.33	7.35	1.614+j7.664	5.217+j13.247
MINERA AUTLÁN TAP	MAX-115	115.0	14.82	10.53	0.900+j4.390	2.003+j9.766	18.84	12.46	0.662+j3.820	1.992+j9.629
MINERA DEL TORO	MDT-115	115.0	1.24	0.84	17.569+j50.572	53.327+j120.108	1.38	0.93	17.194+j49.940	53.283+j119.988
MINERA DOLORES	MDO-115	115.0	0.82	0.64	25.913+j76.703	58.262+j139.591	1.27	1.07	17.139+j55.020	33.331+j83.256
MINERA ROBLE	MRO-115	115.0	1.51	0.88	19.111+j39.546	48.339+j131.373	1.69	0.97	18.778+j39.055	48.307+j131.116
MINERA SAN JUAN	SAJ-115	115.0	0.71	0.49	39.259+j84.403	86.476+j201.990	0.79	0.54	38.069+j83.770	86.234+j200.483
MIRAVALLE	MIR-115	115.0	16.72	13.43	0.746+j3.901	1.446+j6.740	21.58	16.24	0.521+j3.343	1.431+j6.577
MITLA	MLA-115	115.0	11.33	9.92	1.333+j5.709	1.902+j8.150	15.50	12.38	0.866+j4.632	1.899+j8.055
MOCTEZUMA	MCZ-400	400.0	5.42	6.08	6.961+j42.022	1.788+j29.111	7.65	7.96	3.369+j33.052	1.860+j29.323
MOCTEZUMA	MCZ-230	230.0	10.70	13.21	2.298+j12.191	0.425+j5.442	16.02	18.55	1.103+j9.049	0.438+j5.397
MOCTEZUMA	MCZ-115	115.0	12.66	16.00	0.724+j5.193	0.069+j1.996	16.88	20.56	0.393+j4.308	0.069+j2.012
MONTE VERDE	MTV-115	115.0	2.01	1.53	8.173+j32.030	5.712+j64.377	2.25	1.70	7.889+j31.430	5.702+j64.262
NAICA	NAI-115	115.0	2.73	1.91	10.901+j21.692	20.483+j51.865	3.44	2.44	9.508+j18.957	17.098+j44.197
NAMIQUIPA	NQA-115	115.0	2.51	2.09	6.795+j25.535	13.941+j40.151	2.86	2.35	6.276+j24.783	13.923+j39.976
NAZAS	NAZ-115	115.0	20.36	22.60	0.652+j3.195	0.260+j2.291	28.45	30.49	0.379+j2.539	0.232+j2.042
NICOLÁS BRAVO	NCB-115	115.0	1.21	0.89	15.489+j52.648	43.457+j106.596	1.35	0.98	14.959+j51.916	43.438+j106.419
NOMBRE DE DIOS	NDD-115	115.0	10.80	10.01	1.619+j5.933	2.288+j7.305	13.92	12.19	1.141+j5.120	2.257+j7.170
NORTE CERESO	NCE-230	230.0	14.38	18.06	1.705+j9.078	0.214+j3.623	28.41	33.22	0.521+j5.115	0.244+j2.911
NUEVA HOLANDA	NHO-115	115.0	1.70	1.26	10.498+j37.736	16.071+j77.963	1.99	1.44	8.899+j35.515	16.032+j77.494
NUEVO CASAS GRANDES	NCG-230	230.0	6.05	7.14	3.450+j21.659	1.065+j11.969	7.59	8.71	2.424+j19.086	1.037+j11.785
NUEVO CASAS GRANDES	NCG-115	115.0	9.03	11.60	1.079+j7.272	0.122+j2.503	10.90	13.85	0.814+j6.648	0.115+j2.424
NUEVO IDEAL	NID-115	115.0	1.52	1.15	16.778+j40.191	38.794+j77.679	1.71	1.27	16.367+j39.438	38.754+j77.490
OASIS	OAS-115	115.0	1.65	1.22	11.090+j38.673	16.770+j80.731	1.95	1.40	9.416+j36.346	16.729+j80.259
OCAMPO	OCP-115	115.0	9.87	8.52	1.734+j6.501	3.260+j9.449	12.62	10.30	1.261+j5.647	3.238+j9.198
OJINAGA	OJI-115	115.0	0.89	0.63	25.426+j70.030	56.778+j159.564	1.02	0.70	23.689+j67.881	56.734+j159.086
ORIENTE VEINTIUNO	OTV-115	115.0	12.23	10.47	1.275+j5.276	2.736+j7.734	17.08	13.20	0.803+j4.201	2.729+j7.625
PALMAREJO	PAL-115	115.0	0.67	0.44	40.378+j91.008	95.385+j230.860	0.74	0.49	39.715+j90.548	95.330+j230.586
PALOMAR	PMR-115	115.0	8.56	6.84	1.934+j7.510	3.556+j13.198	10.65	8.05	1.466+j6.702	3.536+j13.070
PALOMAS	PMS-115	115.0	1.52	1.17	10.761+j42.322	32.132+j76.926	1.70	1.30	10.481+j41.729	32.107+j76.685
PAPELERA CHIHUAHUA	PCH-115	115.0	10.45	9.38	1.496+j6.177	2.507+j8.233	13.64	11.66	1.011+j5.259	2.420+j7.770
PARQUE	PQE-115	115.0	15.76	17.14	1.096+j4.069	0.784+j3.103	24.81	25.69	0.576+j2.887	0.574+j2.585
PARQUE PIEL	EZT-115	115.0	3.87	2.65	5.395+j16.307	17.333+j37.139	4.41	2.97	5.171+j15.747	17.310+j36.930
PARRAL	PAR-115	115.0	2.06	1.82	12.040+j29.872	11.464+j43.614	2.37	2.08	10.915+j28.829	11.285+j42.204
PASO DEL AGULIA	PSA-115	115.0	10.43	7.39	1.523+j6.181	4.626+j13.464	12.64	8.55	1.292+j5.633	4.618+j13.342
PASO DEL NORTE	PNR-230	230.0	8.76	9.96	3.029+j14.853	1.833+j9.540	13.82	14.27	1.450+j10.470	1.862+j9.407



**Niveles de cortocircuito de la Red Nacional de Transmisión
Gerencia de Control Regional Norte**

Subestación Eléctrica	Acrónimo	Tensión (kV)	Corriente de cortocircuito (kA) e impedancias de Thévenin secuencias positiva y cero (Ω)							
			NCC mínimo 2026				NCC máximo 2026			
			3F	1F	ZTH(+)	ZTH(0)	3F	1F	ZTH(+)	ZTH(0)
PASO DEL NORTE	PNR-115	115.0	15.95	18.81	1.015+j4.036	0.329+j2.257	24.21	26.48	0.559+j2.965	0.336+j2.220
PATRIA	PAT-115	115.0	11.37	9.74	1.468+j5.654	3.020+j8.267	15.58	12.16	0.983+j4.584	3.008+j8.158
PEÑITAS	AND-230	230.0	10.71	11.05	2.276+j12.184	1.793+j11.152	15.73	15.03	1.216+j9.205	1.819+j10.449
PEÑUELAS	ADI-115	115.0	6.45	5.00	3.000+j9.843	7.441+j17.842	7.61	5.72	2.730+j9.205	7.420+j17.636
POLVORÍN	TMA-115	115.0	1.39	0.90	15.157+j45.471	43.281+j116.909	1.57	1.01	14.323+j44.225	43.237+j116.702
PONDERCEL	POE-115	115.0	5.60	5.96	3.047+j11.466	2.415+j9.473	6.65	6.93	2.575+j10.684	2.392+j9.379
PORVENIR	PRR-115	115.0	1.73	1.20	10.555+j36.886	34.724+j82.127	1.96	1.34	10.064+j35.844	34.666+j81.969
PUENTE DE NEGROS	PDN-115	115.0	4.86	3.91	3.942+j13.069	8.437+j22.075	5.67	4.45	3.649+j12.344	8.399+j21.961
PUERTO JUSTO	PTJ-115	115.0	1.84	1.63	12.790+j33.841	16.102+j47.396	2.10	1.85	11.634+j32.831	15.899+j45.949
QUEVEDO	QVD-230	230.0	3.04	3.56	9.934+j42.499	1.836+j25.110	3.65	4.20	7.915+j39.181	1.773+j24.648
QUEVEDO	QVD-115	115.0	5.18	6.46	2.794+j12.513	0.268+j5.328	6.11	7.55	2.290+j11.740	0.251+j5.155
QUINCE DE OCTUBRE	QDO-115	115.0	6.94	6.19	2.165+j9.315	4.423+j12.345	8.42	7.22	1.843+j8.478	4.422+j12.283
QUINCEO	PHS-115	115.0	23.04	19.66	0.578+j2.823	0.777+j4.305	31.82	24.84	0.356+j2.268	0.764+j4.162
RANCHO LUCERO	RLO-115	115.0	12.05	8.30	1.123+j5.394	2.924+j12.668	14.92	9.67	0.879+j4.816	2.913+j12.533
REFORMA	REA-230	230.0	11.72	13.66	2.339+j11.087	0.908+j6.464	20.85	21.84	0.937+j6.943	0.934+j5.994
REFORMA	REA-115	115.0	17.82	22.03	0.853+j3.627	0.165+j1.594	28.39	33.07	0.418+j2.538	0.159+j1.477
REGIO MÁRMOL	REM-115	115.0	4.41	2.83	3.623+j14.626	12.234+j38.507	5.04	3.17	3.372+j14.101	12.216+j38.346
REVOLUCIÓN	REV-115	115.0	7.82	5.97	2.179+j8.209	5.898+j15.347	9.32	6.87	1.911+j7.598	5.890+j15.200
RIO FLORIDO	RIF-115	115.0	3.39	2.67	5.613+j18.787	13.261+j33.041	4.28	3.20	4.282+j16.502	12.880+j31.985
RIVEREÑA	RVA-115	115.0	14.96	15.61	1.134+j4.290	1.023+j3.750	22.42	21.38	0.655+j3.190	1.016+j3.602
ROBERT BOSH	ROB-115	115.0	11.90	10.74	1.528+j5.364	2.564+j6.943	16.71	13.84	1.025+j4.249	2.497+j6.670
ROBINSON	RNN-115	115.0	11.70	11.00	1.306+j5.521	1.786+j6.593	15.62	13.98	0.821+j4.602	1.699+j6.130
RUIZ CORTINES	RCS-115	115.0	3.97	3.88	3.832+j16.266	3.923+j17.539	4.61	4.43	3.322+j15.501	3.906+j17.366
SABINAS	SAB-115	115.0	1.23	0.79	21.818+j49.304	55.757+j132.647	1.37	0.88	21.446+j48.695	55.712+j132.527
SALVARCAR	SVC-115	115.0	12.64	11.19	1.241+j5.102	2.625+j6.854	17.80	14.22	0.787+j4.027	2.627+j6.771
SAMALAYACA SUR	SYS-230	230.0	12.25	12.90	2.082+j10.641	1.804+j9.046	27.63	29.90	0.503+j5.264	0.576+j4.063
SAMALAYUCA	SYC-230	230.0	12.45	13.33	2.045+j10.469	1.630+j8.422	29.62	34.41	0.435+j4.912	0.225+j2.886
SAN ANTONIO DE BELÉN	ABE-115	115.0	1.35	0.87	19.476+j45.287	50.470+j118.954	1.50	0.97	19.105+j44.671	50.426+j118.834
SAN BUENAVENTURA	SBV-115	115.0	3.11	2.28	5.337+j20.644	17.387+j41.318	3.55	2.56	5.022+j19.952	17.384+j41.297
SAN FRANCISCO DE BORJA	SFB-115	115.0	1.54	0.99	12.096+j41.352	36.241+j110.278	1.73	1.09	11.535+j40.584	36.239+j110.236
SAN FRANCISCO DE LOS ROMO	AMS-115	115.0	12.81	9.13	1.051+j5.077	2.691+j11.144	15.95	10.72	0.811+j4.507	2.676+j10.965
SAN FRANCISCO DEL ORO	SFO-115	115.0	2.46	2.51	9.380+j25.255	5.480+j25.002	2.86	2.92	8.259+j24.163	5.305+j23.601
SAN IGNACIO	SIG-115	115.0	2.36	1.67	7.693+j27.087	24.364+j58.660	2.70	1.87	7.205+j26.041	24.306+j58.502
SAN ISIDRO	SID-115	115.0	7.31	5.95	2.147+j8.830	4.829+j14.556	9.20	7.07	1.680+j7.760	4.772+j14.399
SAN JERÓNIMO	SJE-115	115.0	5.03	2.34	2.619+j12.940	23.149+j54.284	6.04	2.65	2.139+j11.893	23.156+j54.242
SAN MARTIN	MRT-115	115.0	1.24	0.80	21.567+j48.850	55.171+j131.127	1.39	0.89	21.195+j48.240	55.127+j131.007
SAN MIGUEL DE ALLENDE	LJT-115	115.0	16.07	12.86	0.751+j4.063	1.982+j6.972	20.59	15.40	0.527+j3.507	1.983+j6.888
SAN PEDRO POTENCIA	SPP-230	230.0	2.31	2.57	14.623+j55.607	3.769+j40.530	2.71	2.97	12.417+j52.534	3.656+j39.990
SAN PEDRO POTENCIA	SPP-115	115.0	3.86	4.77	4.441+j16.639	0.583+j7.465	4.46	5.49	3.879+j15.920	0.547+j7.221
SANTA BÁRBARA	BBA-115	115.0	2.56	2.68	9.201+j24.215	4.264+j22.344	2.98	3.12	8.087+j23.112	4.094+j20.950



**Niveles de cortocircuito de la Red Nacional de Transmisión
Gerencia de Control Regional Norte**

Subestación Eléctrica	Acrónimo	Tensión (kV)	Corriente de cortocircuito (kA) e impedancias de Thévenin secuencias positiva y cero (Ω)							
			NCC mínimo 2026				NCC máximo 2026			
			3F	1F	ZTH(+)	ZTH(0)	3F	1F	ZTH(+)	ZTH(0)
SANTA MARÍA DEL ORO	SMO-115	115.0	0.81	0.59	29.275+j76.719	69.022+j160.964	0.90	0.65	28.074+j75.828	68.775+j159.450
SANTIAGO DOS	SGD-230	230.0	1.68	1.82	26.388+j74.643	5.168+j61.795	2.00	2.17	22.085+j69.742	4.437+j56.924
SANTIAGO DOS	SGD-115	115.0	2.92	3.38	7.716+j21.394	0.925+j13.821	3.42	4.00	6.602+j20.280	0.755+j12.428
SANTIAGO PAPASQUIARO	SGP-115	115.0	1.11	0.78	25.692+j54.309	61.769+j118.917	1.23	0.87	25.254+j53.607	61.724+j118.722
SANTIAGO UNO	SGU-115	115.0	2.85	3.26	7.969+j21.866	1.403+j14.908	3.34	3.84	6.856+j20.755	1.232+j13.514
SANTOS SOLAR MANIOBRAS	SSM-115	115.0	11.43	13.42	0.812+j5.753	0.597+j3.195	14.94	16.82	0.479+j4.864	0.597+j3.211
SAUZAL	SAZ-115	115.0	10.70	8.72	1.540+j6.013	3.567+j9.835	14.50	10.79	1.046+j4.928	3.538+j9.654
SEIS Y MEDIO	SYM-115	115.0	4.56	3.20	4.061+j13.976	12.463+j30.850	5.35	3.63	3.542+j13.182	12.458+j30.784
SETENTA Y TRES	SAT-115	115.0	1.79	1.35	10.594+j35.539	28.292+j67.419	2.02	1.51	10.062+j34.792	28.281+j67.304
SOMBRETE	SOM-115	115.0	1.18	0.76	22.712+j51.468	58.060+j138.592	1.31	0.84	22.340+j50.856	58.016+j138.472
TABALAOPA	TBL-115	115.0	11.91	11.77	1.441+j5.386	1.743+j5.573	15.99	15.13	0.959+j4.466	1.668+j5.118
TACUBAYA	TBA-115	115.0	2.99	3.20	6.359+j21.293	5.893+j16.915	3.67	3.82	5.065+j19.257	5.867+j16.528
TAKATA	TAK-115	115.0	16.09	13.34	0.760+j4.057	1.549+j6.507	20.69	16.02	0.535+j3.489	1.553+j6.445
TECNOLÓGICO	TEC-115	115.0	11.25	10.10	1.621+j5.677	2.684+j7.466	15.54	12.81	1.125+j4.564	2.655+j7.253
TEPIC UNO	GPL-230	230.0	11.76	12.92	2.032+j11.107	0.748+j8.293	19.24	20.83	0.853+j7.543	0.500+j5.849
TERRANOVA	TER-230	230.0	11.36	13.15	2.465+j11.422	0.868+j6.910	20.93	21.67	0.915+j6.920	0.896+j6.216
TERRANOVA	TER-115	115.0	18.13	22.49	0.833+j3.566	0.159+j1.539	29.16	33.88	0.389+j2.475	0.161+j1.455
TINAJAS	TIN-115	115.0	2.86	2.12	3.778+j22.916	18.707+j44.612	3.27	2.37	3.432+j22.041	18.707+j44.628
TORRENCITOS SOLAR	TOS-115	115.0	3.30	2.61	5.845+j19.250	13.509+j33.607	4.17	3.13	4.488+j16.936	13.128+j32.551
TORRES	TOR-115	115.0	14.52	14.24	1.091+j4.440	1.654+j4.572	21.34	18.91	0.642+j3.361	1.656+j4.487
TRECE SOLAR MANIOBRAS	TSM-115	115.0	2.32	2.05	7.217+j27.654	7.480+j39.443	2.87	2.42	5.522+j24.849	7.444+j38.985
TRES HERMANOS	THS-115	115.0	1.85	1.72	11.352+j34.132	17.078+j40.275	2.18	1.99	9.966+j32.034	17.044+j39.825
VADO SANTA MARÍA	VSM-115	115.0	1.73	1.44	9.303+j37.177	3.750+j61.971	1.94	1.60	9.026+j36.564	3.742+j61.891
VALLARTA UNO	LED-230	230.0	10.97	10.85	2.288+j11.885	2.240+j12.349	18.18	18.71	0.962+j7.979	1.137+j7.270
VALLE DE JUÁREZ	VJZ-230	230.0	10.08	10.98	2.737+j12.886	1.493+j9.865	17.30	16.83	1.118+j8.370	1.416+j9.055
VALLE DE JUÁREZ	VJZ-115	115.0	16.73	19.78	0.985+j3.844	0.290+j2.133	26.64	29.81	0.492+j2.697	0.243+j1.858
VALLE DE TECOMAN	MAT-115	115.0	10.86	9.83	1.408+j5.952	2.253+j7.718	13.52	11.75	1.119+j5.286	2.236+j7.529
VALLE DEL MEZQUITAL	PLA-115	115.0	0.98	0.53	20.413+j64.889	108.923+j217.510	1.07	0.58	20.726+j65.212	108.892+j217.289
VALLE ESPERANZA	VEZ-115	115.0	2.22	1.54	4.887+j29.473	27.512+j64.988	2.52	1.72	4.540+j28.600	27.512+j65.004
VERDE INDEPENDENCIA UNO	VIU-115	115.0	9.10	7.43	1.349+j7.170	4.538+j11.490	11.88	8.98	0.899+j6.084	4.539+j11.407
VICENTE GUERRERO	VGR-115	115.0	1.86	1.28	12.151+j33.519	34.148+j77.411	2.09	1.42	11.789+j32.870	34.105+j77.292
VICENTE GUERRERO	VGR-FIC	115.0	1.46	1.17	18.045+j41.669	30.816+j73.418	1.63	1.30	17.778+j40.981	30.763+j73.283
VIDRIERA CHIHUAHUA MANIOBRAS	VCM-115	115.0	5.39	3.98	2.978+j11.949	7.488+j24.318	6.95	4.90	2.051+j10.303	7.068+j22.666
VILLA AHUMADA	VAH-115	115.0	2.30	1.66	7.935+j27.737	24.711+j57.536	2.61	1.85	7.570+j26.888	24.712+j57.553
VIÑEDOS	VDS-115	115.0	13.11	9.65	1.150+j4.932	3.239+j10.016	16.34	11.34	0.916+j4.374	3.232+j9.893
WERNER	WER-115	115.0	11.77	10.39	1.534+j5.429	2.805+j7.401	16.25	13.05	1.084+j4.362	2.803+j7.309
WRANGLER	WRA-115	115.0	7.46	6.41	2.227+j8.621	6.829+j11.750	10.35	8.56	1.331+j6.927	6.410+j10.101
ZARAGOZA	ZZA-115	115.0	14.52	14.40	1.230+j4.404	1.471+j4.455	21.69	19.69	0.729+j3.287	1.403+j4.182

Gerencia de Control Regional Noreste



[Regresar a mapa del SEN](#)



Subestación Eléctrica	Acrónimo	Tensión (kV)	Corriente de cortocircuito (kA) e impedancias de Thévenin secuencias positiva y cero (Ω)							
			NCC mínimo 2026				NCC máximo 2026			
			3F	1F	ZTH(+)	ZTH(0)	3F	1F	ZTH(+)	ZTH(0)
ACERO	AEO-115	115.0	9.52	8.63	1.131+j6.880	1.560+j9.044	11.20	9.90	0.947+j6.453	1.557+j8.981
ACEROS PLANOS	APM-115	115.0	21.75	15.28	0.612+j2.990	1.303+j6.811	24.89	17.09	0.534+j2.885	1.304+j6.828
ACUARIO	ACU-138	138.0	11.94	10.46	1.619+j6.475	1.762+j9.545	14.06	12.02	1.394+j6.074	1.751+j9.422
ACUÑA	AUA-138	138.0	5.53	5.84	2.946+j14.113	1.649+j11.995	7.13	7.52	2.244+j12.088	1.492+j10.208
ACUÑA DOS	ACD-138	138.0	5.67	5.96	2.591+j13.822	1.580+j11.918	7.66	8.16	1.725+j11.304	1.272+j9.226
AEROPUERTO	AER-400	400.0	13.54	15.55	3.138+j16.767	1.224+j11.196	19.09	20.78	1.654+j13.204	1.236+j10.440
AEROPUERTO	AER-230	230.0	17.31	21.51	1.522+j7.518	0.289+j3.441	23.87	28.73	0.865+j6.058	0.283+j3.169
AEROPUERTO	AER-138	138.0	18.92	22.68	0.843+j4.126	0.188+j2.212	24.53	28.66	0.569+j3.528	0.184+j2.103
AEROPUERTO NORTE	ANE-115	115.0	11.74	6.35	1.183+j5.532	4.444+j19.574	13.22	7.05	1.096+j5.414	4.443+j19.556
AEROPUERTO OMA MONTERREY	OMA-115	115.0	16.96	12.75	0.649+j3.861	1.640+j7.624	20.87	15.02	0.509+j3.462	1.626+j7.436
AFI STEEL FOUNDRY	ASF-115	115.0	16.90	13.13	0.579+j3.886	1.549+j7.168	20.33	15.46	0.444+j3.566	1.505+j6.849
AGUA NUEVA	AGN-115	115.0	11.01	10.73	1.146+j5.922	0.829+j6.453	12.83	12.29	0.991+j5.605	0.817+j6.403
AGUAS TRATADAS	ATM-115	115.0	11.06	7.69	1.027+j5.915	2.954+j13.637	13.78	9.84	0.812+j5.239	2.299+j11.492
AHUACATLAN	AHU-115	115.0	3.35	2.01	5.418+j19.079	14.535+j57.627	3.69	2.21	5.400+j19.042	14.540+j57.583
ALAMO	ALM-115	115.0	11.57	9.12	1.165+j5.617	2.419+j10.101	13.23	10.27	1.055+j5.417	2.408+j10.018
ÁLCALI MANIOBRAS	ACM-115	115.0	23.47	24.20	0.412+j2.799	0.237+j2.550	26.32	27.14	0.369+j2.750	0.228+j2.496
ALCOA PRIVADA	APV-115	115.0	12.07	6.53	1.149+j5.382	4.319+j19.020	13.60	7.25	1.062+j5.264	4.318+j19.002
ALLEN DEL NORTE	ADN-115	115.0	11.14	7.47	1.143+j5.847	2.925+j14.469	12.62	8.32	1.045+j5.690	2.925+j14.459
ALIANZA REAL	AIR-115	115.0	22.84	16.93	0.469+j2.869	0.876+j5.892	26.33	19.08	0.391+j2.746	0.875+j5.872
ALLENDE	ALN-115	115.0	3.87	2.27	3.789+j16.715	12.693+j52.009	4.30	2.51	3.700+j16.596	12.669+j51.869
ALLENDE DOS	AED-138	138.0	5.46	4.32	2.713+j14.338	4.799+j25.748	6.98	5.19	2.006+j12.386	4.717+j25.076
ALMACENTRO DEFINITIVO	ALE-115	115.0	20.74	15.68	0.547+j3.155	1.204+j6.183	25.67	18.49	0.428+j2.813	1.192+j6.054
ALPES	ALP-115	115.0	14.42	11.72	0.735+j4.545	1.517+j7.659	16.97	13.62	0.602+j4.261	1.470+j7.351
ALTAMIRA	ALT-400	400.0	21.20	20.55	1.042+j10.842	2.026+j12.021	31.12	31.48	0.570+j8.144	1.082+j8.093
ALTAMIRA	ALT-230	230.0	20.05	23.69	0.615+j6.595	0.378+j3.797	24.30	28.67	0.481+j5.993	0.296+j3.484
ALTAMIRA	ALT-115	115.0	25.96	28.08	0.353+j2.533	0.186+j2.025	30.64	32.88	0.315+j2.363	0.177+j1.943
ALTAMIRA DE AGUA Y DRENAJE DE MONTERREY	AAD-115	115.0	24.69	17.89	0.530+j2.637	1.013+j5.673	28.68	20.38	0.445+j2.507	0.997+j5.570
ALTAMIRA III Y IV	ATC-400	400.0	21.99	24.25	0.869+j10.465	0.819+j7.736	35.54	41.96	0.392+j7.138	0.388+j4.595
ALTAMIRA V	ATV-400	400.0	21.96	24.22	0.873+j10.480	0.819+j7.736	35.46	41.92	0.395+j7.153	0.386+j4.586
ALTAMIRANO	ATR-115	115.0	7.48	5.75	1.536+j8.744	3.363+j16.628	8.73	6.53	1.331+j8.256	3.355+j16.542
ALTOS HORNOS DE MÉXICO	AHM-400	400.0	8.62	8.67	4.234+j26.449	3.018+j27.329	11.53	10.87	2.474+j21.902	3.086+j26.581
AMERICAN INDUSTRIES	AIN-138	138.0	15.15	15.72	1.174+j5.128	0.879+j4.703	19.10	19.14	0.883+j4.503	0.870+j4.561
AMERICAN INDUSTRIES DULCES NOMBRES	AID-115	115.0	16.94	14.35	0.532+j3.883	1.119+j5.948	21.38	17.55	0.379+j3.395	1.093+j5.596
AMÉRICAS	AME-115	115.0	18.40	11.94	0.669+j3.545	1.922+j9.278	21.26	13.43	0.567+j3.387	1.921+j9.258
AMISTAD	AMI-138	138.0	3.20	2.75	5.608+j24.275	8.101+j36.122	4.69	5.25	3.214+j18.424	1.133+j12.681
AMPAD	AMP-138	138.0	9.12	9.92	1.831+j8.542	1.012+j6.782	10.48	11.29	1.636+j8.205	0.989+j6.644
ANÁHUAC	ANH-138	138.0	2.22	1.39	8.098+j34.898	20.293+j98.531	2.55	1.55	7.299+j33.584	20.270+j98.349
ANÁHUAC POTENCIA	ANP-400	400.0	16.34	25.41	1.361+j14.070	1.978+j-0.832	20.16	32.34	1.012+j12.563	2.199+j-1.433
ANÁHUAC POTENCIA	ANP-115	115.0	19.36	25.27	0.486+j3.394	0.280+j1.030	22.02	28.89	0.450+j3.286	0.317+j0.950
ANÁHUAC TAM.POTENCIA	ATP-400	400.0	11.04	13.15	2.826+j20.731	0.824+j12.455	16.30	19.80	1.313+j15.530	0.431+j8.246



Niveles de cortocircuito de la Red Nacional de Transmisión Gerencia de Control Regional Noreste

Subestación Eléctrica	Acrónimo	Tensión (kV)	Corriente de cortocircuito (kA) e impedancias de Thévenin secuencias positiva y cero (Ω)							
			NCC mínimo 2026				NCC máximo 2026			
			3F	1F	ZTH(+)	ZTH(0)	3F	1F	ZTH(+)	ZTH(0)
ANÁHUAC TAM.POTENCIA	ATP-230	230.0	14.92	19.77	1.362+j8.793	0.152+j3.085	18.40	23.93	0.956+j7.881	0.143+j2.975
ANGOSTURA	ANG-115	115.0	10.57	8.12	0.966+j6.204	2.565+j11.726	11.99	9.08	0.870+j6.030	2.564+j11.696
ANILLO PERIFÉRICO	APF-115	115.0	13.66	9.98	0.842+j4.787	1.975+j10.043	15.45	11.16	0.763+j4.664	1.964+j10.001
ANZALDUAS	ANZ-138	138.0	14.15	12.59	1.243+j5.491	1.491+j7.668	17.41	14.88	0.959+j4.942	1.474+j7.532
ANZALDUAS RODÉ	ANR-138	138.0	11.76	9.36	1.594+j6.582	2.587+j11.799	14.19	10.93	1.305+j6.038	2.519+j11.502
APASCO	APC-230	230.0	10.03	8.36	2.233+j13.050	4.665+j20.691	11.61	9.48	1.881+j12.435	4.654+j20.583
APODACA	AP0-115	115.0	16.45	11.09	0.806+j3.955	1.965+j9.698	19.37	12.58	0.704+j3.703	1.948+j9.686
ARCO VIAL	ARV-115	115.0	23.10	23.53	0.489+j2.833	0.327+j2.691	26.10	26.41	0.436+j2.764	0.325+j2.673
ARROYO DEL COYOTE	ADC-400	400.0	3.35	3.48	12.785+j67.686	4.773+j61.969	4.59	4.46	7.330+j54.826	5.113+j60.287
ARROYO DEL COYOTE	ADC-230	230.0	4.58	5.08	6.528+j28.273	1.544+j20.559	5.92	6.30	4.468+j24.251	1.570+j20.263
ARROYO DEL COYOTE	ADC-138	138.0	8.84	11.47	2.310+j8.709	0.163+j2.891	11.61	14.73	1.569+j7.387	0.167+j2.780
ARTEAGA	ATG-115	115.0	4.39	4.34	4.166+j14.533	3.649+j15.257	5.36	5.14	3.418+j13.180	3.613+j14.937
ARTES GRAFICAS	AGR-115	115.0	17.71	12.69	0.735+j3.676	1.540+j8.057	20.57	14.34	0.648+j3.491	1.532+j8.038
ARVIN MERITOR	AVM-115	115.0	11.11	6.00	1.246+j5.847	4.704+j20.714	12.49	6.66	1.159+j5.729	4.703+j20.696
ATLAPEXCO	APX-115	115.0	2.83	2.70	5.812+j22.701	7.921+j25.693	3.14	2.99	5.764+j22.565	7.915+j25.589
AURORA	AUR-138	138.0	3.41	3.01	7.258+j22.225	7.950+j31.851	3.87	3.41	6.865+j21.561	7.784+j30.988
AXTLA	AXA-115	115.0	4.86	3.21	3.526+j13.188	8.704+j33.621	5.35	3.53	3.515+j13.192	8.701+j33.565
AZTECAS	AZT-115	115.0	2.94	1.79	6.561+j21.596	20.698+j62.694	3.29	2.01	6.364+j21.267	20.016+j61.234
AZTLÁN	AZN-138	138.0	15.08	13.51	1.225+j5.140	1.510+j7.054	18.83	16.22	0.931+j4.559	1.457+j6.822
BAJÍO	BAO-115	115.0	2.18	1.60	7.071+j29.597	14.895+j62.044	2.51	1.80	6.526+j28.366	14.879+j61.794
BALL METAL BEVERAGE	BMB-115	115.0	15.98	11.05	0.728+j4.091	1.897+j9.519	17.69	12.15	0.688+j4.070	1.901+j9.582
BARRETAL	BET-115	115.0	3.40	2.28	7.250+j18.104	16.539+j45.409	3.76	2.52	7.216+j18.056	16.532+j45.329
BARRY CALLEBAUT	BAC-115	115.0	20.74	10.71	0.588+j3.146	2.565+j11.934	23.82	11.97	0.509+j3.023	2.560+j11.904
BASF	BSF-115	115.0	15.01	10.52	0.824+j4.345	2.004+j9.922	17.62	12.75	0.757+j4.076	1.743+j8.765
BERLÍN	BRN-115	115.0	17.35	12.08	0.730+j3.757	2.186+j8.571	21.06	14.02	0.627+j3.411	2.170+j8.424
BICENTENARIO	BIC-115	115.0	7.32	6.22	1.484+j8.947	2.693+j13.622	8.09	6.85	1.453+j8.910	2.718+j13.694
BIOFILM	BFL-115	115.0	16.34	11.04	0.728+j3.998	2.031+j9.741	19.29	13.66	0.664+j3.728	1.677+j8.340
BLACK & DECKER	BAD-138	138.0	15.53	13.56	1.090+j5.014	1.294+j7.341	19.44	16.28	0.797+j4.438	1.237+j7.099
BOMBEO LOMA LARGA	BLL-115	115.0	18.46	11.78	0.734+j3.520	1.800+j9.547	21.13	13.24	0.650+j3.394	1.793+j9.473
BOMBEO NUEVA CASTILLA III	BNC-115	115.0	10.64	5.37	1.151+j6.135	5.038+j24.123	11.96	5.96	1.071+j6.013	5.023+j24.064
BOMBEO PORVENIR	POR-115	115.0	3.17	2.27	6.433+j19.903	18.487+j42.312	3.51	2.50	6.393+j19.777	18.501+j42.262
BRAVO	BRA-115	115.0	2.05	1.28	9.517+j30.910	29.376+j85.617	2.27	1.42	9.461+j30.806	29.416+j85.506
CADEREYTA	CYN-115	115.0	14.65	11.23	0.676+j4.481	1.268+j8.580	17.42	13.21	0.556+j4.156	1.196+j8.128
CADEREYTA II (1)	CDT-115B2	115.0	2.39	1.85	4.625+j27.348	16.870+j49.979	2.66	2.05	4.456+j27.054	16.846+j49.821
CADEREYTA II (2)	CDT-115B1	115.0	2.41	1.85	4.977+j27.081	16.902+j50.035	2.68	2.05	4.803+j26.792	16.879+j49.877
CAMARGO	CAM-138	138.0	5.81	3.37	3.812+j13.171	11.186+j42.191	6.84	4.46	3.340+j12.378	7.464+j32.537
CAMPESTRE	CPR-138	138.0	7.26	7.32	2.766+j10.621	1.737+j10.612	9.19	8.86	2.004+j9.319	1.740+j10.499
CAMPO TAMAULIPAS	CTS-115	115.0	11.14	7.68	1.338+j5.806	3.346+j13.679	12.64	8.59	1.297+j5.631	3.339+j13.608
CAPELLANIA	CAP-115	115.0	11.75	9.26	0.889+j5.580	2.022+j10.028	13.62	10.52	0.763+j5.307	2.028+j9.925
CARBÓN DOS	CBD-400	400.0	8.42	8.22	4.967+j26.958	3.934+j29.545	23.22	27.52	0.690+j10.920	0.347+j6.260



Subestación Eléctrica	Acrónimo	Tensión (kV)	Corriente de cortocircuito (kA) e impedancias de Thévenin secuencias positiva y cero (Ω)							
			NCC mínimo 2026				NCC máximo 2026			
			3F	1F	ZTH(+)	ZTH(0)	3F	1F	ZTH(+)	ZTH(0)
CARPLASTIC	CIS-115	115.0	17.46	12.63	0.660+j3.744	1.719+j7.987	21.30	14.74	0.530+j3.388	1.708+j7.841
CASA BLANCA	CBL-138	138.0	9.62	7.81	1.842+j8.071	2.614+j14.020	11.15	8.84	1.628+j7.689	2.607+j13.943
CASTECH	CAS-115	115.0	16.77	13.04	0.585+j3.915	1.577+j7.203	20.13	15.30	0.451+j3.600	1.540+j6.922
CATERPILA JAGUAR	CJR-115	115.0	10.61	5.73	1.298+j6.120	4.926+j21.696	11.93	6.36	1.212+j6.002	4.925+j21.677
CEDROS	CED-230	230.0	12.28	12.45	1.900+j10.645	1.393+j10.323	14.56	14.48	1.497+j9.920	1.375+j10.133
CEDROS	CED-115	115.0	25.76	28.43	0.488+j2.530	0.208+j1.856	31.68	34.35	0.371+j2.276	0.205+j1.765
CEJA	CJA-115	115.0	2.36	1.87	4.935+j27.722	18.006+j47.317	2.62	2.07	4.763+j27.431	17.983+j47.160
CELULOSA	CEL-115	115.0	19.80	13.82	0.619+j3.295	1.436+j7.578	22.71	15.50	0.538+j3.171	1.436+j7.574
CEMENTOS ANÁHUAC	CAN-115	115.0	13.42	12.53	0.914+j4.863	1.334+j5.881	15.10	14.05	0.878+j4.756	1.371+j5.801
CEMENTOS HIDALGO	CEH-115	115.0	7.08	4.66	2.606+j9.003	8.755+j22.429	7.91	5.16	2.527+j8.884	8.755+j22.408
CEMENTOS MEXICANOS	CEM-115	115.0	25.70	19.63	0.488+j2.537	0.895+j4.903	29.79	22.22	0.405+j2.418	0.893+j4.881
CEMEX (VALLES)	CMX-115	115.0	7.28	5.39	2.383+j8.801	4.310+j18.271	8.12	5.98	2.338+j8.684	4.349+j18.173
CENTEC	CNE-115	115.0	10.39	7.19	1.514+j6.209	3.509+j14.519	11.86	8.06	1.403+j5.996	3.507+j14.455
CENTRAL	CEN-138	138.0	11.97	11.30	1.570+j6.468	1.320+j7.956	14.02	12.95	1.359+j6.100	1.312+j7.868
CENTRAL ANÁHUAC	CAH-230	230.0	14.89	19.74	1.357+j8.811	0.145+j3.080	18.34	23.87	0.953+j7.905	0.139+j2.976
CENTRAL DULCES NOMBRES	CDU-400	400.0	26.69	29.59	1.881+j8.447	0.561+j6.166	41.13	44.28	0.847+j6.118	0.398+j4.890
CENTRAL DULCES NOMBRES	CDU-115	115.0	11.25	13.57	0.274+j5.898	0.058+j2.873	18.19	20.30	0.107+j4.014	0.055+j2.765
CENTRAL DULCES NOMBRES II	DNO-115	115.0	22.28	21.83	0.449+j2.945	0.231+j3.156	24.56	24.14	0.421+j2.943	0.219+j3.121
CENTRAL IBERDROLA COGENERACIÓN RAMOS	ICR-115	115.0	15.15	12.83	0.563+j4.346	1.001+j6.720	18.17	15.34	0.429+j3.997	0.939+j6.208
CERRALVO	CER-115	115.0	3.16	2.26	5.730+j20.241	15.827+j43.499	3.52	2.50	5.540+j19.993	15.814+j43.554
CERRO PRIETO	CEP-115	115.0	4.69	4.06	2.443+j13.930	5.723+j20.076	5.24	4.51	2.364+j13.728	5.722+j20.044
CHAIREL	CHR-115	115.0	17.44	14.41	0.667+j3.748	1.712+j6.053	20.20	16.43	0.621+j3.561	1.699+j5.944
CHAMPAYAN	CPY-400	400.0	25.36	27.01	0.839+j9.068	0.979+j7.562	38.57	43.26	0.420+j6.573	0.603+j4.881
CHAPACAO	CHW-115	115.0	4.32	3.06	4.040+j14.816	13.766+j31.804	4.80	3.38	3.999+j14.677	13.766+j31.747
CHRYSLER CAMIONES PLANTA MOTORES SUR	CPS-115	115.0	12.95	10.93	0.939+j5.042	1.786+j7.768	14.87	12.33	0.842+j4.840	1.782+j7.750
CHRYSLER DE MÉXICO	CYM-115	115.0	19.24	16.12	0.727+j3.373	1.184+j5.336	23.07	18.82	0.602+j3.108	1.169+j5.193
CHRYSLER PLANTA CAMIONES	CYC-115	115.0	13.31	11.48	0.893+j4.909	1.653+j7.201	15.30	12.96	0.796+j4.706	1.649+j7.183
CIBIOSA (FERSINSA)	CIB-115	115.0	11.88	8.53	0.914+j5.515	2.209+j11.987	13.74	9.64	0.793+j5.256	2.223+j11.911
CIFUNSA	CIF-115	115.0	18.09	15.00	0.760+j3.591	1.170+j5.836	21.23	17.16	0.650+j3.379	1.169+j5.774
CIMA	CIM-138	138.0	11.47	12.17	1.530+j6.774	0.739+j5.942	13.34	13.96	1.332+j6.433	0.722+j5.824
CITROFRUT	CIT-115	115.0	4.46	2.69	3.857+j14.369	11.189+j42.794	4.96	2.98	3.819+j14.218	11.189+j42.756
CIUDAD INDUSTRIAL	CID-230	230.0	4.50	4.75	7.054+j28.629	3.192+j24.952	5.81	5.84	4.954+j24.632	3.174+j24.583
CIUDAD INDUSTRIAL	CID-138	138.0	7.11	7.80	2.929+j10.820	1.059+j8.230	9.02	9.55	2.154+j9.473	1.039+j8.058
CLOSURES INTERIORES	CLI-138	138.0	10.10	8.46	2.011+j7.626	2.659+j12.408	11.88	9.71	1.760+j7.163	2.637+j12.212
CODEFRONT	CFT-138	138.0	2.84	2.05	5.240+j27.573	10.625+j59.411	3.29	2.32	4.451+j26.243	10.606+j59.238
COMPAÑÍA CERVECERA DE COAHUILA	CVC-138	138.0	6.88	6.74	2.442+j11.319	2.093+j12.141	8.89	8.28	1.865+j9.683	2.087+j11.775
CONCEPCIÓN DEL ORO	CDO-115	115.0	1.45	0.84	14.999+j43.281	36.952+j141.413	1.61	0.92	14.823+j43.005	36.939+j141.361
CONDUCTORES MONTERREY	CDY-115	115.0	21.40	15.95	0.578+j3.048	1.434+j6.122	27.78	19.00	0.452+j2.590	1.391+j6.127
CONEK II	COK-115	115.0	22.40	22.21	0.506+j2.921	0.398+j3.008	25.29	24.89	0.453+j2.852	0.396+j2.991
CONTEC MEXICANA	CON-115	115.0	20.63	20.04	0.401+j3.193	0.556+j3.464	26.89	25.63	0.248+j2.705	0.531+j3.113



Subestación Eléctrica	Acrónimo	Tensión (kV)	Corriente de cortocircuito (kA) e impedancias de Thévenin secuencias positiva y cero (Ω)							
			NCC mínimo 2026				NCC máximo 2026			
			3F	1F	ZTH(+)	ZTH(0)	3F	1F	ZTH(+)	ZTH(0)
CONTROLADORA DE TERMINALES	COT-115	115.0	19.17	9.09	0.638+j3.404	3.093+j14.671	21.95	10.14	0.558+j3.280	3.083+j14.628
CONTRY	CNY-115	115.0	23.31	15.24	0.540+j2.796	1.382+j7.250	26.97	17.26	0.456+j2.669	1.368+j7.157
CORONA	CRO-138	138.0	8.51	7.76	1.944+j9.158	2.085+j11.912	11.61	9.78	1.319+j7.436	2.078+j11.540
CORPORATE PROPERTIES OF AMÉRICA	CPA-115	115.0	9.36	5.05	1.451+j6.942	5.593+j24.639	10.49	5.60	1.364+j6.824	5.592+j24.621
COSMOPOLIS	CPL-115	115.0	14.90	9.54	0.846+j4.374	2.547+j11.706	16.90	10.64	0.769+j4.252	2.546+j11.693
CRUZ DE ATAQUE	CRQ-115	115.0	0.86	0.65	20.248+j74.425	60.153+j139.165	0.95	0.72	20.106+j74.088	60.135+j139.035
CRYOINFRA	CRY-115	115.0	nan	nan	nan+jnan	nan+jnan	18.06	15.10	0.805+j3.962	1.150+j6.460
CRYOINFRA SCMS	COF-115	115.0	31.90	14.62	0.370+j2.048	1.758+j9.297	45.06	17.26	0.251+j1.601	1.716+j9.302
CUADRO DE MANIOBRAS EÓLICA DE COAHUILA	MEH-230	230.0	5.69	7.27	3.173+j23.104	0.937+j8.208	6.41	8.18	2.917+j22.592	0.932+j8.097
CUADRO DE MANIOBRAS PRESA GRANDE	PGE-400	400.0	7.73	5.20	3.586+j29.659	16.358+j72.116	11.96	12.18	1.556+j21.180	1.521+j20.498
CUADRO DE MANIOBRAS PROMAX	MPX-115	115.0	26.67	13.81	0.461+j2.447	1.871+j9.259	30.95	15.47	0.386+j2.328	1.871+j9.256
CUADRO MANIOBRAS DE ABSORMEX	MBX-115	115.0	19.38	14.79	0.610+j3.372	1.279+j6.522	23.31	19.24	0.535+j3.087	0.894+j5.088
CUADRO MANIOBRAS EÓLICO SANTA CATARINA	MEO-230	230.0	14.61	11.89	1.408+j8.980	3.668+j14.932	17.07	13.54	1.120+j8.484	3.640+j14.863
CUATRO CIÉNEGAS	CCE-115	115.0	1.65	1.08	16.273+j36.722	37.043+j98.167	1.84	1.19	16.095+j36.361	37.039+j98.098
CUMBRES FRONTERA	CUF-230	230.0	12.08	12.36	1.988+j10.808	1.404+j10.412	15.52	15.13	1.276+j9.327	1.395+j10.220
CUMBRES FRONTERA	CUF-138	138.0	18.57	21.05	0.915+j4.193	0.331+j2.853	23.73	26.07	0.634+j3.638	0.320+j2.753
CUMBRES ORIENTE	CBO-115	115.0	15.28	10.83	0.674+j4.293	2.110+j9.483	17.22	12.06	0.605+j4.197	2.109+j9.473
CUMBRES PONIENTE	CMN-115	115.0	18.24	13.83	0.573+j3.594	1.505+j6.975	20.69	15.45	0.503+j3.495	1.504+j6.964
DE ACERO	DEA-230	230.0	10.13	9.13	2.204+j12.929	3.107+j17.143	11.84	10.47	1.801+j12.204	3.089+j16.952
DE ACERO CLAVOS MONTERREY	DCM-115	115.0	31.11	22.42	0.434+j2.090	0.907+j4.529	35.33	24.19	0.371+j2.034	0.959+j4.833
DE ACERO POTENCIA	DEP-400	400.0	19.40	11.52	1.982+j11.739	5.179+j36.048	24.37	13.30	1.219+j10.352	5.220+j36.144
DECOFINMEX	DFX-138	138.0	10.91	9.15	1.699+j7.101	2.168+j11.515	12.79	10.46	1.474+j6.692	2.158+j11.394
DENSO	DSO-115	115.0	17.63	12.24	0.760+j3.688	1.706+j8.583	20.67	13.87	0.666+j3.471	1.694+j8.567
DENSO GUADALUPE	DGP-115	115.0	14.97	8.88	0.820+j4.359	2.581+j13.303	16.68	9.73	0.755+j4.312	2.635+j13.509
DERRAMADERO	DMD-400	400.0	14.38	12.28	2.532+j15.863	4.053+j24.037	17.51	14.36	1.731+j14.408	3.970+j23.753
DERRAMADERO	DMD-115	115.0	21.52	21.94	0.434+j3.055	0.307+j2.898	25.00	25.07	0.348+j2.900	0.304+j2.886
DÍAZ ORDAZ	DOR-138	138.0	6.29	3.98	3.406+j12.202	8.706+j33.755	7.32	4.72	3.047+j11.580	7.646+j30.850
DINASTÍA	DNA-115	115.0	23.75	16.12	0.515+j2.747	1.230+j6.658	27.62	18.17	0.426+j2.610	1.231+j6.661
DIRONA	DIR-115	115.0	17.75	8.60	0.677+j3.678	3.154+j15.367	20.26	9.60	0.597+j3.555	3.139+j15.310
DIRONA Y FORJA	DFO-115	115.0	17.75	8.61	0.677+j3.678	3.162+j15.339	20.26	9.61	0.597+j3.555	3.148+j15.284
DOFASCO DE MÉXICO	DAO-115	115.0	18.81	8.86	0.649+j3.469	3.151+j15.090	21.52	9.89	0.570+j3.346	3.139+j15.041
DULCES NOMBRES AYD	RDN-115	115.0	7.36	4.69	1.701+j8.865	5.759+j23.732	8.44	5.28	1.564+j8.506	5.748+j23.576
DYNASOL	DYN-115	115.0	16.24	12.57	0.816+j4.005	1.733+j7.533	18.68	14.21	0.776+j3.832	1.726+j7.460
EARTH TECH	ETH-115	115.0	7.76	3.27	1.455+j8.431	9.179+j42.872	9.55	4.02	1.165+j7.559	7.740+j38.445
ÉBANO	EBN-115	115.0	4.41	3.12	4.186+j14.455	13.373+j31.079	4.90	3.46	4.144+j14.310	13.365+j31.012
EL ABRA	ABR-115	115.0	2.38	1.61	9.337+j26.333	17.225+j65.438	2.77	1.96	8.388+j24.994	13.673+j57.923
EL CANADÁ	ECN-115	115.0	18.86	10.08	0.587+j3.470	2.241+j12.518	21.57	11.31	0.507+j3.348	2.210+j12.415
EL COCO	COC-115	115.0	19.03	24.41	0.506+j3.452	0.344+j1.175	21.62	27.88	0.470+j3.345	0.381+j1.095
EL CUCHILLO	CCL-230	230.0	5.76	5.15	4.076+j22.711	4.776+j30.826	6.84	5.95	3.428+j21.085	4.725+j30.492
EL CUCHILLO	CCL-115	115.0	5.54	6.24	1.495+j11.901	0.651+j7.926	6.25	7.03	1.329+j11.602	0.628+j7.769



Subestación Eléctrica	Acrónimo	Tensión (kV)	Corriente de cortocircuito (kA) e impedancias de Thévenin secuencias positiva y cero (Ω)							
			NCC mínimo 2026				NCC máximo 2026			
			3F	1F	ZTH(+)	ZTH(0)	3F	1F	ZTH(+)	ZTH(0)
EL FRAILE	FAI-400	400.0	25.28	26.71	1.298+j9.043	0.588+j7.710	31.27	31.96	0.781+j8.085	0.581+j7.612
EL GUERREÑO	GRR-400	400.0	11.55	12.16	3.340+j19.707	2.519+j17.768	15.93	15.71	1.797+j15.843	2.577+j16.972
EL GUERREÑO	GRR-138	138.0	18.21	22.16	0.841+j4.295	0.125+j2.144	23.28	27.49	0.569+j3.722	0.129+j2.116
EL HIGO DOS	HGD-115	115.0	2.32	1.34	6.031+j28.008	20.888+j88.886	2.55	1.48	6.036+j28.016	20.873+j88.795
EL MIRADOR	MIO-115	115.0	28.08	20.39	0.469+j2.317	0.981+j4.950	32.88	23.38	0.384+j2.188	0.965+j4.838
EL PORVENIR	EPR-138	138.0	7.66	7.03	2.296+j10.140	1.946+j13.199	8.95	8.04	2.047+j9.581	1.924+j13.064
EL REGIONMONTANO	RGM-400	400.0	18.79	16.87	2.101+j12.108	2.728+j16.318	24.91	21.00	1.202+j10.125	2.697+j15.730
EL REGIONMONTANO	RGM-115	115.0	28.30	27.19	0.315+j2.325	0.251+j2.627	33.56	31.46	0.230+j2.164	0.249+j2.608
EL SARAPE	SRP-230	230.0	11.89	11.82	1.964+j10.992	1.954+j11.231	14.03	13.67	1.574+j10.294	1.944+j11.079
ELECTRICIDAD ÁGUILA ALTAMIRA	EAA-400	400.0	21.81	23.65	0.890+j10.549	0.984+j8.270	35.31	41.25	0.402+j7.184	0.462+j4.867
ELENA	ELN-115	115.0	14.46	13.27	0.803+j4.522	1.106+j5.766	17.39	16.46	0.689+j4.143	0.888+j4.879
EMERSON	EMR-138	138.0	10.51	8.06	1.772+j7.369	3.018+j14.284	13.28	9.88	1.333+j6.462	2.815+j13.279
EMERSON DOS	EMD-138	138.0	13.32	9.82	1.428+j5.807	2.868+j12.134	16.38	11.51	1.133+j5.228	2.810+j11.886
EMPALME	EML-138	138.0	7.06	4.91	2.983+j10.877	6.144+j25.551	8.36	5.69	2.623+j10.153	5.980+j24.689
ENERGÍA MK KF	KAF-115	115.0	19.19	15.26	0.616+j3.404	1.049+j6.081	22.96	19.32	0.547+j3.133	0.797+j4.956
ENERTEK	ETK-115	115.0	19.65	16.14	0.573+j3.329	1.044+j5.524	23.59	20.21	0.502+j3.056	0.822+j4.618
EÓLICA CIUDAD VICTORIA	ECV-115	115.0	13.11	13.46	0.660+j5.022	0.863+j4.601	14.57	14.97	0.627+j4.975	0.869+j4.550
EÓLICA GUADALUPE MANIOBRAS	EGM-400	400.0	8.78	8.64	2.820+j26.138	3.491+j27.486	10.20	9.86	2.282+j24.805	3.492+j27.372
EÓLICA LA MESA	ELM-115	115.0	6.37	6.02	1.825+j10.260	1.969+j12.074	7.03	6.60	1.798+j10.231	2.023+j12.253
EÓLICA TRES MESAS	EMS-115	115.0	5.00	3.36	0.204+j13.288	8.087+j32.150	5.60	3.75	0.172+j13.045	8.080+j31.784
ÉOLICA TRES MESAS FASE CUATRO	EMC-115	115.0	3.84	3.71	1.182+j17.238	1.003+j19.087	4.37	4.20	1.076+j16.683	1.000+j18.723
ESCOBEDO	ESC-400	400.0	25.93	26.69	1.962+j8.689	1.231+j8.061	36.33	34.73	1.092+j6.906	1.230+j7.862
ESCOBEDO	ESC-230	230.0	20.32	18.72	1.045+j6.452	1.243+j8.133	24.64	22.19	0.737+j5.881	1.175+j7.824
ESCOBEDO	ESC-115	115.0	51.09	52.44	0.243+j1.277	0.112+j1.201	62.65	62.36	0.165+j1.154	0.112+j1.180
ESPERANZAS	ESP-115	115.0	2.16	1.61	7.320+j29.782	14.373+j60.981	2.49	1.81	6.769+j28.565	14.358+j60.731
ESTANZUELA (1)	ETZ-115	115.0	17.26	13.23	0.602+j3.799	1.349+j7.244	19.70	14.97	0.516+j3.671	1.325+j7.106
ESTANZUELA (2)	ETZ-115B	115.0	21.32	14.76	0.620+j3.053	1.395+j7.135	24.57	16.76	0.534+j2.924	1.371+j6.996
ESTRELLA	ELL-115	115.0	7.03	5.01	1.490+j9.333	4.416+j20.412	7.77	5.53	1.457+j9.287	4.417+j20.361
FALCÓN MEXICANO	FAM-138	138.0	5.15	3.01	4.330+j14.861	12.525+j46.787	6.36	5.26	3.436+j13.352	2.951+j22.304
FARO	FAR-115	115.0	18.25	11.87	0.701+j3.570	1.779+j9.340	20.90	13.34	0.616+j3.440	1.772+j9.266
FÉLIX U. GÓMEZ	FUG-115	115.0	27.76	20.44	0.465+j2.346	0.878+j4.887	32.40	23.26	0.381+j2.222	0.872+j4.835
FINSA	FIT-115	115.0	14.48	10.06	0.810+j4.512	2.256+j10.402	16.44	11.25	0.736+j4.382	2.250+j10.365
FINSA	FIS-115	115.0	16.09	13.73	0.657+j4.073	1.338+j6.124	18.83	15.72	0.543+j3.841	1.337+j6.055
FINSA GUADALUPE	FIG-115	115.0	17.80	12.79	0.648+j3.674	1.538+j7.966	19.72	14.06	0.609+j3.654	1.541+j8.024
FINSA LAREDO	FIL-138	138.0	7.22	7.32	3.140+j10.578	2.337+j10.389	9.15	8.86	2.367+j9.280	2.340+j10.274
FIRESTONE	FRS-115	115.0	12.66	7.51	1.090+j5.131	3.528+j15.651	14.29	8.35	1.003+j5.012	3.527+j15.633
FLEX AMÉRICAS	FME-115	115.0	15.05	9.86	0.542+j4.378	2.319+j11.194	17.64	11.81	0.480+j4.112	2.061+j10.117
FOMERREY	FOM-115	115.0	11.12	7.44	1.148+j5.862	2.938+j14.528	12.58	8.29	1.053+j5.711	2.937+j14.518
FREIGHTLINER	FRI-115	115.0	11.13	8.66	1.099+j5.864	2.613+j10.766	12.67	9.71	1.003+j5.675	2.610+j10.749
FRISA	FSA-115	115.0	19.81	17.24	0.472+j3.318	0.813+j4.767	22.18	19.24	0.426+j3.264	0.806+j4.721



**Niveles de cortocircuito de la Red Nacional de Transmisión
Gerencia de Control Regional Noreste**

Subestación Eléctrica	Acrónimo	Tensión (kV)	Corriente de cortocircuito (kA) e impedancias de Thévenin secuencias positiva y cero (Ω)							
			NCC mínimo 2026				NCC máximo 2026			
			3F	1F	ZTH(+)	ZTH(0)	3F	1F	ZTH(+)	ZTH(0)
FRONTERA	FRO-400	400.0	9.57	9.75	3.917+j23.817	2.466+j23.572	13.19	12.54	2.124+j19.138	2.534+j22.715
FRONTERA	FRO-230	230.0	10.83	12.78	1.834+j12.123	0.483+j6.872	13.51	15.54	1.229+j10.741	0.479+j6.692
FRONTERA	FRO-115	115.0	11.80	14.20	0.776+j5.571	0.134+j2.836	13.98	16.62	0.607+j5.190	0.130+j2.768
FUENTES	FTE-138	138.0	8.56	8.44	1.871+j9.113	1.673+j9.590	11.71	10.81	1.215+j7.385	1.643+j9.139
FUNDICIÓN	FDC-115	115.0	18.81	15.10	0.526+j3.490	1.225+j6.028	23.06	18.23	0.386+j3.144	1.156+j5.581
FUNDIDORA	FUN-115	115.0	25.89	19.46	0.487+j2.518	0.917+j5.027	30.33	23.04	0.397+j2.375	0.789+j4.630
G. E. PLASTIC	GEP-115	115.0	9.06	5.70	1.353+j7.198	4.227+j19.910	10.36	6.59	1.285+j6.928	3.973+j18.776
GALVASID	GLS-115	115.0	22.47	16.54	0.542+j2.905	1.166+j6.028	28.17	19.37	0.427+j2.558	1.137+j6.024
GARCIA	GAC-115	115.0	9.86	8.02	0.869+j6.675	2.186+j11.171	10.95	8.87	0.820+j6.619	2.182+j11.138
GENERACIÓN ELÉCTRICA HUINALA	GEH-115	115.0	7.72	7.81	0.779+j8.561	0.745+j8.283	8.50	8.70	0.751+j8.562	0.696+j7.971
GENERAL MOTOR	GMO-115	115.0	12.21	9.38	1.038+j5.339	2.239+j10.123	14.05	10.59	0.923+j5.114	2.239+j10.059
GIRASOLES	GRS-115	115.0	21.16	15.85	0.517+j3.096	1.148+j6.189	24.32	17.83	0.437+j2.971	1.148+j6.182
GOLLEK	GOK-115	115.0	4.63	3.46	2.177+j14.182	6.148+j28.172	5.35	4.30	1.941+j13.506	4.237+j23.310
GP BIENES INMUEBLES	GPI-115	115.0	17.58	12.33	0.754+j3.700	1.655+j8.444	20.51	13.95	0.663+j3.498	1.645+j8.427
GRANJAS	GRA-115	115.0	7.96	5.85	1.459+j8.215	3.520+j17.037	9.28	6.63	1.265+j7.771	3.516+j16.966
GUADALUPE	GDL-115	115.0	22.96	15.66	0.593+j2.830	1.372+j6.805	26.14	17.30	0.522+j2.745	1.395+j6.941
GUILLFORD MILLS	GUI-115	115.0	14.62	10.59	0.746+j4.480	1.879+j9.587	16.86	12.10	0.697+j4.276	1.831+j9.318
GÜEMEZ	GUE-400	400.0	13.51	13.16	1.977+j16.981	2.187+j18.401	16.22	15.44	1.528+j15.586	2.175+j18.094
GÜEMEZ	GUE-115	115.0	16.10	17.67	0.404+j4.103	0.217+j3.027	17.94	19.77	0.370+j4.054	0.211+j2.947
H.C. INDUSTRIAS	HCI-115	115.0	13.22	9.74	1.135+j4.891	2.359+j10.145	15.25	11.00	1.024+j4.677	2.358+j10.081
HIDALGO	HID-115	115.0	7.83	5.27	2.306+j8.164	8.075+j19.298	8.75	5.84	2.227+j8.044	8.075+j19.277
HIDALGO	HDG-115	115.0	15.76	13.05	0.729+j4.150	1.916+j6.648	18.16	14.82	0.683+j3.964	1.905+j6.551
HUASTECA	HST-115	115.0	3.68	2.24	4.672+j17.418	12.792+j51.187	4.05	2.47	4.658+j17.399	12.793+j51.141
HUEJUTLA II	HJD-115	115.0	3.97	3.27	3.961+j16.244	8.044+j26.337	4.38	3.61	3.944+j16.211	8.038+j26.238
HUERTAS	HUS-115	115.0	7.14	6.27	1.211+j9.215	2.875+j12.893	8.04	7.00	1.132+j9.013	2.874+j12.860
HUICHIHUAYAN	HUH-115	115.0	3.26	1.95	5.884+j19.519	15.162+j59.265	3.59	2.15	5.862+j19.465	15.172+j59.218
HUINALA	HUI-400	400.0	27.20	30.22	1.891+j8.278	0.541+j6.006	42.10	45.41	0.857+j5.973	0.379+j4.747
HUINALA	HUI-230	230.0	21.91	25.39	0.995+j5.978	0.284+j3.588	31.56	36.07	0.491+j4.602	0.226+j2.939
HUINALA	HUI-115	115.0	26.48	31.43	0.310+j2.488	0.071+j1.328	36.41	44.25	0.158+j2.000	0.046+j0.977
HUINALÁ (BUS B)	HUI-230B	230.0	22.11	25.44	0.974+j5.926	0.321+j3.661	31.85	36.18	0.476+j4.561	0.251+j2.990
HUINALÁ (BUS B)	HUI-115B	115.0	23.15	28.21	0.363+j2.845	0.071+j1.330	31.68	39.42	0.194+j2.297	0.046+j0.979
HUINALA DOS	HUO-400	400.0	27.06	30.04	1.889+j8.324	0.546+j6.051	41.89	45.29	0.853+j6.004	0.367+j4.734
HYLSA MANIOBRAS	HYM-400	400.0	24.31	23.60	2.336+j9.207	1.650+j10.284	34.23	30.61	1.422+j7.284	1.629+j9.947
HYLSA NORTE	EHN-230	230.0	14.33	11.11	1.605+j9.124	4.085+j16.868	17.64	13.06	1.196+j8.193	4.046+j16.566
IBERDROLA COGENERACIÓN ALTAMIRA	IBC-115	115.0	19.60	18.77	0.505+j3.350	0.450+j3.856	22.75	21.62	0.468+j3.177	0.447+j3.736
IMIS	IMI-115	115.0	9.90	7.67	1.381+j6.561	3.109+j12.189	11.31	8.64	1.261+j6.335	3.097+j12.068
IMSA	INM-115	115.0	10.56	11.20	0.929+j6.219	0.689+j5.217	12.60	13.10	0.736+j5.750	0.678+j5.116
IMSA PARTICULARES	IMO-115	115.0	18.71	12.60	0.691+j3.480	1.712+j8.551	21.35	14.08	0.611+j3.366	1.711+j8.548
INDUSTRIA VIDRIERA DE COAHUILA	IVC-138	138.0	7.52	6.42	2.295+j10.347	3.114+j15.735	9.97	7.89	1.667+j8.627	3.107+j15.363
INFONAVIT	INV-138	138.0	9.65	8.17	1.768+j8.062	2.308+j12.762	11.13	9.22	1.571+j7.716	2.303+j12.715



Niveles de cortocircuito de la Red Nacional de Transmisión Gerencia de Control Regional Noreste

Subestación Eléctrica	Acrónimo	Tensión (kV)	Corriente de cortocircuito (kA) e impedancias de Thévenin secuencias positiva y cero (Ω)							
			NCC mínimo 2026				NCC máximo 2026			
			3F	1F	ZTH(+)	ZTH(0)	3F	1F	ZTH(+)	ZTH(0)
INFONAVIT	INF-115	115.0	15.74	13.26	0.718+j4.156	1.987+j6.378	18.14	15.06	0.672+j3.970	1.978+j6.291
INGENIO SAN MIGUEL EL NARANJO	MGN-115	115.0	2.56	2.61	8.745+j24.384	3.406+j24.570	3.11	3.40	7.233+j22.381	2.382+j17.562
INTERNACIONAL REGIOMONTANA DE ACERO	IRG-115	115.0	18.95	13.98	0.595+j3.453	1.459+j7.097	23.23	16.36	0.472+j3.109	1.447+j6.965
INTERPUERTO	IPR-115	115.0	16.95	7.94	0.628+j3.868	3.238+j16.947	19.34	8.84	0.542+j3.738	3.237+j16.927
IQUISA NORESTE	IQN-115	115.0	14.98	11.13	0.609+j4.391	1.887+j8.828	16.76	12.37	0.554+j4.321	1.883+j8.800
JABIL	JAB-138	138.0	10.63	8.24	1.754+j7.284	2.922+j13.842	13.40	10.05	1.328+j6.402	2.746+j12.943
JARACHINA	JRA-138	138.0	16.15	14.81	1.104+j4.808	1.172+j6.264	20.39	18.15	0.806+j4.221	1.063+j5.868
JARDÍN DOS	JAD-138	138.0	11.82	10.53	1.609+j6.547	1.654+j9.278	13.86	12.06	1.393+j6.167	1.645+j9.178
JERÓNIMO POTENCIA	JEP-400	400.0	19.57	19.05	2.324+j11.571	1.801+j12.721	25.28	23.22	1.427+j9.948	1.801+j12.633
JERÓNIMO POTENCIA	JEP-115	115.0	34.75	31.56	0.335+j1.881	0.245+j2.486	40.83	36.04	0.259+j1.770	0.246+j2.494
JERÓNIMO POTENCIA (BUS B)	JEP-115B	115.0	32.66	30.12	0.348+j2.003	0.240+j2.544	38.46	34.46	0.266+j1.880	0.241+j2.553
JIMÉNEZ	JIM-115	115.0	1.58	1.07	13.130+j39.921	41.579+j94.211	1.74	1.17	13.098+j39.878	41.571+j94.127
JOHNSON AND CONTROL	JCC-115	115.0	10.70	6.64	1.148+j6.096	3.823+j17.178	12.03	7.38	1.061+j5.975	3.822+j17.160
JOHNSON CONTROL	JHC-115	115.0	14.87	11.94	0.597+j4.426	1.415+j7.619	16.59	13.26	0.549+j4.368	1.411+j7.586
JOSEFA ZOZAYA	JZO-115	115.0	15.16	9.60	0.832+j4.299	2.403+j11.751	16.80	10.52	0.789+j4.275	2.419+j11.885
JUÁREZ	JUZ-138	138.0	17.55	17.42	0.996+j4.430	0.912+j4.643	22.38	21.26	0.711+j3.851	0.897+j4.521
JUÁREZ NORTE	JNO-115	115.0	13.76	10.85	0.771+j4.763	1.669+j8.561	17.14	13.00	0.597+j4.218	1.643+j8.209
KALOS GUADALUPE	KGP-115	115.0	16.26	12.25	0.562+j4.045	1.773+j7.917	19.80	14.38	0.428+j3.665	1.769+j7.702
KEMET	KMM-138	138.0	8.20	6.37	2.042+j9.502	3.391+j17.984	9.38	7.15	1.845+j9.157	3.386+j17.938
KEMET	KMT-115	115.0	19.30	13.64	0.637+j3.380	1.759+j7.525	24.68	16.07	0.508+j2.916	1.717+j7.531
KEMET VICTORIA	KWM-115	115.0	6.93	5.41	1.704+j9.427	5.312+j16.941	7.66	5.97	1.671+j9.384	5.321+j16.916
KIKAPU	KIK-115	115.0	2.01	1.44	7.764+j32.126	17.076+j70.331	2.30	1.62	7.219+j30.894	17.060+j70.081
KRAFT	KRA-115	115.0	31.46	22.77	0.429+j2.067	0.888+j4.441	35.69	24.49	0.367+j2.013	0.943+j4.762
KRAFT FOODS DE MÉXICO	KRF-115	115.0	16.07	10.01	0.768+j4.059	2.541+j11.352	18.27	11.18	0.685+j3.939	2.540+j11.333
LA ESFERA	LEF-115	115.0	13.41	9.54	1.019+j4.846	2.690+j10.657	15.18	10.71	0.933+j4.719	2.666+j10.518
LA FE	LAF-115	115.0	33.41	24.79	0.391+j1.949	0.723+j3.998	41.25	28.42	0.306+j1.744	0.741+j4.105
LA ROSITA	RSI-115	115.0	4.08	2.94	4.771+j15.558	14.164+j32.493	4.52	3.24	4.731+j15.432	14.178+j32.442
LA SILLA (1)	SLL-115	115.0	15.70	10.29	0.775+j4.157	2.311+j10.664	16.36	10.43	0.757+j4.400	2.584+j11.812
LA SILLA (2)	SLL-115B	115.0	15.66	10.25	0.777+j4.168	2.321+j10.708	16.39	10.45	0.757+j4.390	2.580+j11.791
LADRILLERA	LDA-115	115.0	3.78	2.67	3.407+j17.243	8.130+j38.505	4.20	2.96	3.325+j17.086	8.129+j38.487
LADRILLERA REVOLUCIÓN	LRR-115	115.0	22.43	16.57	0.581+j2.903	1.065+j6.009	25.98	19.03	0.494+j2.767	1.016+j5.803
LAGO	LAO-138	138.0	6.89	6.75	3.199+j11.112	2.607+j12.069	8.67	8.10	2.434+j9.817	2.611+j11.956
LAGUNA	LGA-115	115.0	3.34	2.68	7.803+j18.304	12.796+j32.229	3.82	3.09	7.267+j17.667	12.568+j30.132
LAGUNA DEL CONEJO	LDC-115	115.0	21.65	18.23	0.513+j3.024	0.852+j4.757	26.19	23.38	0.443+j2.753	0.617+j3.787
LAGUNAS DE MIRALTA	LGM-115	115.0	16.77	13.18	0.662+j3.903	1.713+j7.073	19.39	14.96	0.616+j3.716	1.706+j6.988
LAJAS	LAJ-400	400.0	11.55	10.48	2.539+j19.828	4.115+j25.848	13.83	12.16	1.869+j18.277	4.127+j25.693
LAJAS	LAJ-115	115.0	9.27	12.10	0.612+j7.134	0.090+j2.148	10.50	13.68	0.533+j6.932	0.089+j2.115
LAMOSA	LMS-115	115.0	14.94	11.05	0.661+j4.395	2.131+j8.907	18.04	12.89	0.528+j4.015	2.126+j8.693
LAMOSA LAREDO	LAL-138	138.0	7.12	7.08	3.167+j10.728	2.528+j11.133	9.01	8.55	2.393+j9.432	2.531+j11.015
LAMPAZOS	LAM-400	400.0	8.77	6.25	3.797+j26.070	12.854+j56.958	12.61	8.26	1.801+j20.058	11.956+j50.960



Subestación Eléctrica	Acrónimo	Tensión (kV)	Corriente de cortocircuito (kA) e impedancias de Thévenin secuencias positiva y cero (Ω)							
			NCC mínimo 2026				NCC máximo 2026			
			3F	1F	ZTH(+)	ZTH(0)	3F	1F	ZTH(+)	ZTH(0)
LAREDO PONIENTE	LAP-138	138.0	6.16	5.63	3.409+j12.476	3.032+j16.410	7.64	6.66	2.629+j11.162	3.023+j16.267
LAS BRISAS	BRI-115	115.0	17.86	15.40	0.804+j3.630	0.964+j5.423	20.91	17.64	0.693+j3.424	0.961+j5.357
LAS CRUCES	CRU-115	115.0	1.51	1.19	14.438+j41.446	26.806+j74.952	1.80	1.54	12.208+j38.604	19.863+j58.508
LAS GLORIAS	GLO-400	400.0	20.18	17.04	2.026+j11.265	2.593+j17.656	26.87	21.13	1.127+j9.389	2.539+j17.021
LAS GLORIAS	GLO-115	115.0	33.99	31.31	0.320+j1.927	0.277+j2.445	40.02	35.98	0.244+j1.808	0.275+j2.429
LAS LOMAS	LLM-138	138.0	12.01	10.01	1.627+j6.430	2.236+j10.494	16.05	13.60	1.128+j5.344	1.783+j8.415
LAS MESAS	MES-115	115.0	11.27	11.40	0.614+j5.859	0.370+j5.656	12.33	12.55	0.610+j5.891	0.364+j5.582
LAS NORIAS	NOI-115	115.0	0.96	0.59	23.851+j65.224	67.669+j188.169	1.05	0.65	23.827+j65.186	67.660+j188.083
LAS PALMAS	PLM-115	115.0	8.09	6.67	1.292+j8.105	2.841+j13.149	8.95	7.36	1.260+j8.064	2.855+j13.161
LAS TORRES	LTO-138	138.0	10.71	10.29	1.626+j7.261	1.352+j8.457	12.40	11.72	1.430+j6.921	1.339+j8.367
LAURO VILLAR	LVI-230	230.0	8.29	9.05	3.382+j15.656	1.710+j12.511	9.74	10.45	2.866+j14.724	1.673+j12.301
LAURO VILLAR	LVI-138	138.0	11.70	13.02	1.465+j6.649	0.519+j4.948	13.61	15.00	1.270+j6.312	0.495+j4.810
LECHUGAL	LEC-115	115.0	14.88	10.35	0.843+j4.383	2.046+j10.115	16.99	11.58	0.744+j4.234	2.046+j10.110
LEGO REAL ESTATE	LGR-115	115.0	11.16	6.03	1.239+j5.817	4.678+j20.603	12.56	6.69	1.152+j5.699	4.678+j20.585
LEONA	LEO-115	115.0	14.21	9.87	0.918+j4.581	2.132+j10.634	16.58	11.15	0.769+j4.338	2.133+j10.635
LERMAS	LER-115	115.0	19.76	14.22	0.488+j3.324	1.448+j7.150	22.04	15.47	0.435+j3.285	1.487+j7.399
LG	LGE-115	115.0	17.69	12.24	0.756+j3.675	1.716+j8.604	20.79	13.89	0.660+j3.450	1.704+j8.589
LIBERTAD (MONTEMORELOS)	LBT-115	115.0	7.48	7.89	0.978+j8.827	2.313+j7.242	8.42	8.84	0.900+j8.625	2.311+j7.209
LIBERTAD (VICTORIA)	LBT-115	115.0	7.68	6.10	1.445+j8.528	4.371+j14.804	8.49	6.73	1.412+j8.485	4.380+j14.779
LIBRAMIENTO	LBR-115	115.0	2.66	1.70	8.225+j23.561	17.816+j64.828	3.06	2.00	7.585+j22.651	15.286+j59.848
LINARES	LSN-115	115.0	3.81	2.68	2.927+j17.165	8.660+j38.578	4.32	3.10	2.745+j16.676	7.678+j36.031
LINDA VISTA	LDV-115	115.0	4.97	3.04	2.386+j13.145	8.063+j37.969	5.54	3.38	2.341+j12.965	8.012+j37.757
LLANO GRANDE	LLG-230	230.0	9.06	10.17	3.127+j14.317	1.339+j10.422	10.70	11.80	2.618+j13.393	1.318+j10.254
LLANO GRANDE	LLG-138	138.0	12.51	14.26	1.397+j6.215	0.410+j4.247	14.62	16.41	1.201+j5.875	0.403+j4.189
LLERA DE CANALES	LLC-400	400.0	9.32	6.44	2.621+j24.645	11.375+j57.072	11.00	7.40	2.202+j22.991	11.290+j56.125
LOMA LARGA	LOL-115	115.0	30.24	23.81	0.438+j2.151	0.617+j3.932	35.58	27.46	0.353+j2.022	0.602+j3.830
LOS NOVILLOS	LNV-230	230.0	5.51	5.43	4.016+j23.750	4.020+j24.983	7.46	7.13	2.537+j19.415	3.522+j21.946
LOS NOVILLOS	LNV-138	138.0	6.61	7.06	2.035+j11.878	1.128+j9.701	8.89	9.50	1.334+j9.769	0.969+j7.861
LUVATA	LUV-115	115.0	17.38	12.35	0.665+j3.761	1.629+j8.332	19.26	13.57	0.625+j3.740	1.633+j8.396
MABE	MAB-115	115.0	17.02	13.38	0.802+j3.817	1.543+j6.933	20.07	15.35	0.685+j3.574	1.536+j6.835
MAGNA FORMEX SALTILLO	MFS-115	115.0	26.64	26.07	0.437+j2.454	0.374+j2.645	34.75	35.05	0.291+j2.081	0.272+j2.040
MAGNA POWER TRAIN	MGP-115	115.0	24.29	24.25	0.489+j2.690	0.400+j2.733	30.98	31.92	0.346+j2.332	0.301+j2.137
MAGNÉTICOS DE MÉXICO	MME-138	138.0	7.11	7.22	3.090+j10.766	2.303+j10.504	9.01	8.74	2.321+j9.448	2.306+j10.392
MALE PISTONES	MPI-115	115.0	21.41	19.02	0.587+j3.046	0.785+j4.209	26.46	23.35	0.450+j2.723	0.727+j3.805
MANIOBRAS DULCES NOMBRES II	MDU-115	115.0	23.19	21.73	0.453+j2.827	0.351+j3.421	25.62	24.00	0.421+j2.819	0.342+j3.407
MANIOBRAS PARQUE EOLICO EL MEZQUITE	MMQ-230	230.0	7.02	6.30	2.886+j18.703	6.266+j24.675	7.94	7.07	2.627+j18.203	6.256+j24.557
MANIOBRAS RANCHO NORTE	MRN-400	400.0	7.95	5.67	3.761+j28.806	14.797+j63.126	10.74	8.13	2.128+j23.559	10.141+j45.913
MANIOBRAS TRACTEBEL ENERGÍA DE PANUCO	ENP-115	115.0	16.80	14.75	0.777+j3.875	0.942+j5.646	19.38	16.73	0.736+j3.696	0.945+j5.613
MANNESMANN SACH	MSC-115	115.0	21.10	18.57	0.596+j3.090	0.821+j4.368	26.04	22.74	0.458+j2.767	0.763+j3.963
MANTE	MAN-115	115.0	1.39	1.57	17.440+j44.571	4.912+j31.731	1.73	1.90	13.710+j39.870	4.808+j31.242



**Niveles de cortocircuito de la Red Nacional de Transmisión
Gerencia de Control Regional Noreste**

Subestación Eléctrica	Acrónimo	Tensión (kV)	Corriente de cortocircuito (kA) e impedancias de Thévenin secuencias positiva y cero (Ω)							
			NCC mínimo 2026				NCC máximo 2026			
			3F	1F	ZTH(+)	ZTH(0)	3F	1F	ZTH(+)	ZTH(0)
MANUEL	MUL-115	115.0	6.92	2.98	2.540+j9.258	12.098+j46.030	7.78	3.34	2.465+j9.060	11.821+j45.442
MATAMOROS	MTM-138	138.0	12.40	11.03	1.574+j6.231	1.653+j8.862	14.70	12.74	1.343+j5.810	1.639+j8.715
MATAMOROS	MTM-69	69.0	4.47	4.76	0.540+j8.889	0.147+j7.331	4.97	5.27	0.483+j8.801	0.147+j7.349
MATAMOROS POTENCIA	MMP-230	230.0	11.21	12.01	2.162+j11.648	1.621+j10.007	13.48	14.04	1.699+j10.706	1.618+j9.913
MATAMOROS POTENCIA	MMP-138	138.0	12.85	14.68	1.221+j6.079	0.411+j4.089	15.05	16.91	1.030+j5.732	0.406+j4.062
MATRIMAR	MTR-115	115.0	3.22	2.27	5.594+j19.831	15.630+j43.970	3.59	2.51	5.414+j19.595	15.616+j44.018
MAXITILE	MAX-138	138.0	6.35	6.01	3.278+j12.121	2.526+j14.500	7.91	7.16	2.500+j10.795	2.514+j14.347
MAYTAG	MYG-138	138.0	10.54	8.11	1.769+j7.347	2.992+j14.159	13.31	9.92	1.334+j6.449	2.798+j13.190
MESAS	MES-400	400.0	24.33	24.89	0.670+j9.469	0.509+j8.243	27.79	28.42	0.515+j9.128	0.490+j7.969
METALDYNE SINTERED COMPONENTS MÉXICO S. DE R.L. DE C.V.	MST-115	115.0	22.74	22.96	0.533+j2.871	0.426+j2.819	28.56	29.76	0.392+j2.527	0.329+j2.232
METALSA	MSA-115	115.0	24.84	19.16	0.477+j2.630	0.913+j4.968	31.97	22.80	0.359+j2.256	0.880+j4.967
METRO CUAUHTÉMOC	MCU-115	115.0	20.02	13.57	0.635+j3.256	1.580+j7.897	22.95	15.24	0.552+j3.134	1.577+j7.862
METRO LINCOLN	MLI-115	115.0	18.19	11.84	0.680+j3.586	1.906+j9.327	21.13	13.34	0.576+j3.408	1.906+j9.324
MEXICHEM FLUOR	MEF-138	138.0	9.46	7.47	2.117+j8.150	3.299+j14.978	11.01	8.50	1.886+j7.730	3.285+j14.831
MÉXICO	MEX-138	138.0	14.56	13.30	1.240+j5.330	1.502+j6.956	18.28	16.00	0.946+j4.699	1.486+j6.773
MEZQUITAL	MZQ-115	115.0	13.63	8.87	0.878+j4.792	2.733+j12.434	15.43	9.88	0.807+j4.665	2.731+j12.418
MEZQUITAL PROVISIONAL	MZP-115	115.0	nan	nan	nan+jnan	nan+jnan	15.29	9.60	0.814+j4.708	2.862+j12.964
MICARE	MCR-138	138.0	9.01	9.46	1.820+j8.654	1.286+j7.496	12.50	12.40	1.177+j6.913	1.251+j7.006
MICARE DOS	MDS-138	138.0	9.63	10.85	1.356+j8.158	0.637+j5.492	14.10	15.12	0.669+j6.180	0.558+j4.852
MIGUEL ALEMÁN	MIG-138	138.0	5.20	3.03	4.346+j14.687	12.476+j46.669	6.23	4.49	3.679+j13.580	5.936+j29.892
MINA TAYAHUA	MTU-115	115.0	1.28	0.75	16.878+j48.894	43.124+j155.404	1.42	0.83	16.702+j48.620	43.111+j155.352
MINERA	MIE-115	115.0	3.38	3.79	3.176+j19.403	1.800+j13.156	3.98	4.41	2.642+j18.152	1.785+j12.907
MINERA AUTLÁN	MIA-230	230.0	6.63	4.71	3.128+j19.775	10.729+j43.563	7.50	5.26	2.981+j19.250	10.714+j43.409
MIRAMAR	MID-115	115.0	18.41	15.40	0.580+j3.560	1.008+j5.674	21.61	18.22	0.527+j3.339	0.923+j5.229
MIRAMAR DOS	MMD-230	230.0	15.49	16.52	0.880+j8.528	0.824+j7.464	17.99	19.02	0.786+j8.083	0.801+j7.261
MIRAVALLE	MAV-115	115.0	23.36	18.19	0.501+j2.798	1.390+j5.092	26.81	20.45	0.427+j2.690	1.391+j5.098
MISIONES	MSI-115	115.0	10.29	6.92	1.487+j6.279	4.314+j15.288	11.57	7.73	1.400+j6.154	4.290+j15.149
MITRAS	MIT-115B2	115.0	25.29	18.72	0.454+j2.586	1.093+j5.280	29.07	21.06	0.383+j2.483	1.093+j5.268
MODELO	MOD-115	115.0	21.33	13.07	0.587+j3.057	1.846+j8.830	24.43	14.62	0.512+j2.945	1.846+j8.824
MODINE	MNE-138	138.0	7.17	7.22	3.166+j10.653	2.433+j10.672	9.07	8.72	2.394+j9.358	2.436+j10.556
MOLANGO	MOL-115	115.0	1.56	1.10	12.683+j40.618	35.790+j88.418	1.72	1.22	12.667+j40.587	35.783+j88.317
MOLINO	MLN-115	115.0	2.75	1.52	4.649+j23.696	18.784+j80.971	3.02	1.68	4.670+j23.742	18.759+j80.856
MONCLOVA	MON-230	230.0	10.11	10.90	2.103+j12.962	1.265+j10.408	12.48	13.06	1.510+j11.609	1.239+j10.182
MONCLOVA	MON-115	115.0	11.66	13.78	0.817+j5.635	0.213+j3.117	14.04	16.36	0.625+j5.165	0.202+j3.016
MONTE KRISTAL	MKL-115	115.0	9.51	5.79	1.324+j6.858	4.332+j19.944	10.41	6.27	1.274+j6.900	4.449+j20.426
MONTEMORELOS	MTN-115	115.0	3.59	2.54	3.695+j18.137	9.000+j40.483	3.98	2.80	3.612+j17.981	8.999+j40.466
MONTERREY	MTY-115	115.0	36.83	16.59	0.325+j1.773	1.525+j8.267	54.54	19.78	0.205+j1.323	1.483+j8.273
MONTERREY POTENCIA SF6	MTP-400	400.0	26.28	27.63	2.105+j8.531	0.832+j7.532	38.49	37.71	1.158+j6.498	0.764+j7.007
MONTERREY POTENCIA SF6	MTP-115	115.0	40.06	38.77	0.300+j1.630	0.146+j1.826	57.11	51.74	0.194+j1.264	0.130+j1.679
MONTERREY POTENCIA SF6 (BUS B)	MTP-115B	115.0	37.79	36.73	0.316+j1.728	0.146+j1.913	56.51	48.72	0.196+j1.277	0.103+j1.919



Niveles de cortocircuito de la Red Nacional de Transmisión
Gerencia de Control Regional Noreste

Subestación Eléctrica	Acrónimo	Tensión (kV)	Corriente de cortocircuito (kA) e impedancias de Thévenin secuencias positiva y cero (Ω)							
			NCC mínimo 2026				NCC máximo 2026			
			3F	1F	ZTH(+)	ZTH(0)	3F	1F	ZTH(+)	ZTH(0)
MONTOI	MTI-115	115.0	19.77	9.44	0.618+j3.301	2.988+j14.067	22.66	10.54	0.539+j3.178	2.980+j14.028
MORELOS	MRL-115	115.0	11.12	8.28	0.971+j5.890	2.531+j11.875	12.83	9.41	0.844+j5.630	2.500+j11.664
MÚNICH	MUN-115	115.0	16.25	11.19	0.649+j4.035	1.905+j9.443	18.65	12.55	0.553+j3.877	1.906+j9.442
MUSEO	MSO-115	115.0	10.05	7.88	1.385+j6.459	3.164+j11.701	11.27	8.79	1.336+j6.339	3.204+j11.593
NARANJOS	NRJ-115	115.0	3.26	1.98	5.117+j19.730	22.689+j55.863	3.63	2.19	5.035+j19.479	22.673+j55.767
NARCISO MENDOZA	NMZ-138	138.0	6.27	5.68	3.417+j12.249	3.298+j16.401	7.78	6.72	2.642+j10.956	3.298+j16.279
NAVA	NAV-230	230.0	8.83	9.44	2.826+j14.765	1.917+j12.094	16.03	15.55	1.005+j9.059	1.696+j9.621
NAVA	NAV-138	138.0	8.88	10.08	1.594+j8.833	0.665+j5.778	12.65	13.79	0.896+j6.870	0.584+j5.108
NAVIDAD	NVD-115	115.0	1.71	1.79	12.035+j37.021	7.353+j32.915	2.10	2.13	9.707+j33.421	7.283+j32.488
NAVISTAR	NAS-115	115.0	15.46	9.55	0.805+j4.218	2.543+j12.010	17.56	10.65	0.727+j4.095	2.543+j11.990
NEMAK	NEK-115	115.0	15.88	12.61	0.590+j4.139	1.472+j7.284	17.77	14.03	0.538+j4.075	1.467+j7.247
NGM CERÁMICA	NGM-115	115.0	10.86	6.36	1.252+j5.982	4.229+j18.624	12.22	7.06	1.166+j5.864	4.228+j18.606
NOGALAR	NOG-115	115.0	37.35	33.71	0.360+j1.741	0.331+j2.335	44.02	38.50	0.282+j1.635	0.332+j2.352
NOKIA	NOK-138	138.0	14.71	10.72	1.252+j5.269	2.599+j11.264	18.33	12.67	0.955+j4.685	2.525+j10.969
NORTE	NRE-138	138.0	10.11	7.26	1.924+j7.639	3.959+j16.807	12.04	8.40	1.632+j7.095	3.832+j16.343
NUEVA CASTILLA	NUC-115	115.0	11.89	5.94	1.031+j5.489	4.565+j21.921	13.40	6.59	0.951+j5.367	4.549+j21.862
NUEVA ESCOBEDO	NUE-115	115.0	28.13	21.97	0.415+j2.323	0.692+j4.295	32.80	24.95	0.337+j2.201	0.691+j4.274
NUEVA ROSITA	NUR-230	230.0	5.45	5.69	4.867+j23.886	2.445+j21.339	7.42	7.26	3.197+j19.427	2.445+j20.714
NUEVA ROSITA	NUR-115	115.0	4.91	5.88	1.926+j13.394	0.374+j6.874	5.98	7.05	1.399+j12.134	0.359+j6.625
NUEVO LAREDO	NUL-138	138.0	7.35	7.52	3.105+j10.388	2.245+j9.897	9.34	9.13	2.331+j9.093	2.248+j9.780
NUEVO PROGRESO	NVP-138	138.0	9.24	6.93	2.206+j8.336	3.952+j16.932	11.64	8.67	1.732+j7.327	3.552+j15.041
NUEVO SANTANDER	NST-115	115.0	6.98	6.39	1.589+j9.379	2.112+j11.946	7.71	7.02	1.560+j9.346	2.150+j12.084
NUTEC FIBRATEC S.A. DE C.V.	NUF-115	115.0	17.94	14.61	0.779+j3.618	1.473+j6.070	21.34	16.91	0.658+j3.359	1.464+j5.946
OBISPADO	OBI-115	115.0	19.46	0.97	0.615+j3.355	45.120+j192.303	22.23	1.07	0.538+j3.241	45.120+j192.306
OBRA DE TOMA	ODT-115	115.0	1.76	1.19	12.790+j35.411	31.949+j85.703	1.94	1.31	12.760+j35.379	31.989+j85.844
OJO CALIENTE	OJC-138	138.0	6.56	6.12	3.222+j11.708	2.828+j14.546	8.19	7.29	2.451+j10.416	2.829+j14.428
OLIVO	OVO-115	115.0	9.58	8.15	1.013+j6.853	2.498+j10.333	10.62	9.01	0.979+j6.808	2.503+j10.297
ORIENTE	OTE-138	138.0	11.90	11.89	1.539+j6.516	1.040+j6.861	13.90	13.63	1.335+j6.164	1.029+j6.771
ORIÓN	ORN-115	115.0	24.35	13.54	0.495+j2.681	2.130+j9.015	28.13	15.16	0.416+j2.563	2.131+j9.024
ORIZATLAN	ORZ-138	138.0	12.00	9.63	1.508+j6.468	2.336+j11.399	15.19	11.73	1.120+j5.661	2.222+j10.771
OXFORD	OXF-115	115.0	15.03	11.22	0.748+j4.354	1.770+j8.761	18.13	13.40	0.599+j3.983	1.665+j8.142
OZULUAMA	OZL-115	115.0	3.29	2.16	5.277+j19.457	19.999+j48.283	3.66	2.39	5.222+j19.274	19.972+j48.154
P. IND. COLONIAL	PIC-138	138.0	10.58	8.12	1.759+j7.324	2.988+j14.177	13.38	9.96	1.319+j6.414	2.782+j13.158
P. IND. PUENTE	PIP-138	138.0	9.63	7.23	2.099+j8.006	3.989+j16.126	11.88	8.62	1.711+j7.176	3.855+j15.392
P.I. DEL NORTE	INO1-138	138.0	13.55	9.95	1.403+j5.712	2.831+j12.029	16.69	11.68	1.107+j5.132	2.769+j11.769
P.I. SANTA MARÍA	PSM-115	115.0	21.59	19.51	0.492+j3.035	0.693+j4.013	27.19	24.88	0.345+j2.664	0.589+j3.394
PANUCO	PAN-115	115.0	4.93	2.50	2.113+j13.292	11.552+j52.500	5.39	2.75	2.153+j13.390	11.515+j52.344
PARQUE DE INVESTIGACIONES E INNOVACIÓN TECNOLÓGICA	IIT-115	115.0	9.94	7.44	0.854+j6.624	2.644+j13.178	11.83	8.63	0.701+j6.136	2.619+j12.826
PARQUE EÓLICO VICENTE GUERRERO	VIG-115	115.0	7.22	7.74	1.374+j9.088	0.779+j7.309	7.98	8.63	1.343+j9.055	0.741+j7.072
PARQUE IND. ACUÑA	PIU-138	138.0	5.74	5.76	2.462+j13.668	1.886+j13.653	7.67	7.67	1.657+j11.300	1.632+j11.262



Niveles de cortocircuito de la Red Nacional de Transmisión Gerencia de Control Regional Noreste

Subestación Eléctrica	Acrónimo	Tensión (kV)	Corriente de cortocircuito (kA) e impedancias de Thévenin secuencias positiva y cero (Ω)							
			NCC mínimo 2026				NCC máximo 2026			
			3F	1F	ZTH(+)	ZTH(0)	3F	1F	ZTH(+)	ZTH(0)
PARQUE INDL. ESTRELLA	EST-115	115.0	12.74	7.55	1.088+j5.096	3.515+j15.590	14.38	8.39	1.001+j4.978	3.514+j15.572
PARQUE INDUSTRIAL	PAI-138	138.0	13.20	11.39	1.335+j5.885	1.658+j8.871	16.84	13.96	0.967+j5.115	1.586+j8.394
PARQUE INDUSTRIAL AMISTAD-AEROPUERTO	PIA-115	115.0	10.48	7.32	1.096+j6.238	3.006+j14.250	12.16	8.34	0.958+j5.927	2.973+j13.956
PARQUE INDUSTRIAL APODACA TECHNOLOGY PARK	PQT-115	115.0	12.14	8.05	0.891+j5.398	3.003+j13.491	13.68	8.96	0.813+j5.277	3.000+j13.470
PARQUE INDUSTRIAL DEL NORTE	INO2-138	138.0	13.54	9.95	1.403+j5.713	2.831+j12.030	16.69	11.67	1.107+j5.134	2.770+j11.770
PARQUE INDUSTRIAL ESCOBEDO	PIE-115	115.0	21.28	16.15	0.504+j3.079	1.131+j5.995	24.47	18.18	0.423+j2.954	1.131+j5.981
PARQUE INDUSTRIAL LA SILLA	SIA-115	115.0	13.11	9.05	0.858+j4.993	2.600+j11.609	15.58	10.39	0.723+j4.632	2.589+j11.453
PARQUE INDUSTRIAL MONTERREY - APODACA	PMA-115	115.0	17.62	12.25	0.761+j3.691	1.699+j8.564	20.63	13.88	0.667+j3.477	1.688+j8.548
PARQUE INDUSTRIAL ORADEL	PIO-138	138.0	6.89	7.09	3.077+j11.144	1.840+j10.486	8.70	8.59	2.300+j9.809	1.824+j10.327
PARQUE INDUSTRIAL SALTILLO RAMOS ARIZPE	ISR1-115	115.0	21.69	20.28	0.574+j3.006	0.642+j3.656	26.92	25.38	0.436+j2.678	0.565+j3.165
PARQUE INDUSTRIAL SALTILLO RAMOS ARIZPE	ISR2-115	115.0	16.73	13.14	0.588+j3.925	1.564+j7.066	20.05	15.38	0.455+j3.613	1.534+j6.819
PEMEX	PEM-115	115.0	43.96	37.55	0.312+j1.478	0.390+j2.254	49.97	38.88	0.255+j1.439	0.465+j2.675
PEMEX CADEREYTA	PCD-230	230.0	8.61	6.91	2.679+j15.181	5.999+j26.149	11.04	8.29	1.928+j13.089	5.973+j25.749
PEMEX CRIOGÉNICA	PXC-138	138.0	7.48	5.03	2.223+j10.414	5.435+j25.713	9.06	6.67	1.797+j9.510	3.311+j19.873
PEMEX NARANJOS	PMX-115	115.0	3.13	1.90	5.349+j20.538	23.535+j57.785	3.48	2.11	5.266+j20.287	23.519+j57.689
PEMEX-REFINERÍA	PRF-115	115.0	8.00	4.01	1.407+j8.180	8.583+j31.947	9.93	5.86	1.105+j7.268	4.206+j22.292
PERFILES	PFS-115	115.0	24.40	18.69	0.486+j2.678	0.953+j5.127	31.25	22.18	0.369+j2.308	0.921+j5.126
PESQUERÍA	PQA-115	115.0	16.69	12.92	0.641+j3.926	1.423+j7.329	18.93	14.50	0.574+j3.815	1.414+j7.265
PETROCEL	GPT-115	115.0	14.60	11.36	0.918+j4.455	2.344+j8.150	17.29	14.20	0.828+j4.143	1.833+j6.791
PETROLERA	PER-138	138.0	13.89	12.65	1.232+j5.603	1.419+j7.383	17.05	14.91	0.950+j5.050	1.412+j7.293
PEÑOLES	PÑL-115	115.0	18.16	14.88	0.771+j3.574	1.437+j5.912	21.62	17.24	0.649+j3.315	1.428+j5.787
PHEPS DODGE	PHD-115	115.0	10.45	5.64	1.314+j6.214	5.000+j22.027	11.74	6.26	1.227+j6.096	4.999+j22.009
PIEDRAS NEGRAS	PNE-138	138.0	8.68	8.59	1.833+j8.993	1.510+j9.379	11.92	11.02	1.175+j7.260	1.484+j8.967
PIEDRAS NEGRAS POTENCIA	PNG-230	230.0	8.06	8.30	2.993+j16.210	2.288+j14.937	13.27	12.32	1.257+j10.935	2.200+j13.197
PIEDRAS NEGRAS POTENCIA	PNG-138	138.0	9.81	10.83	1.502+j7.978	0.678+j5.835	13.93	14.54	0.849+j6.234	0.647+j5.401
PLANTA	PTA-138	138.0	11.77	10.29	1.637+j6.567	1.800+j9.743	13.84	11.80	1.415+j6.171	1.790+j9.627
PLANTA BOMBEO DOS	PBD-115	115.0	4.53	4.37	2.036+j14.510	3.856+j15.910	5.10	4.89	1.868+j14.212	3.833+j15.753
PLANTA BOMBEO UNO	PBU-115	115.0	3.52	3.07	2.952+j18.605	8.340+j26.084	3.94	3.42	2.783+j18.311	8.317+j25.927
PLANTA DE AGUAS RESIDUALES NORTE	RNO-115	115.0	20.10	13.18	0.534+j3.260	1.557+j8.369	23.04	14.78	0.455+j3.137	1.552+j8.350
PLANTA DE BOMBEO 0	PB0-115	115.0	2.22	1.69	5.297+j29.448	19.775+j54.867	2.47	1.87	5.125+j29.157	19.752+j54.709
PLANTA DE BOMBEO LA SILLA	PBS-115	115.0	14.55	9.39	0.836+j4.486	2.502+j11.834	16.30	10.36	0.767+j4.416	2.525+j11.926
PLANTA DE BOMBEO SAN ROQUE DE AYD	PBR-115	115.0	14.16	9.10	0.858+j4.610	2.607+j12.233	15.74	9.96	0.797+j4.570	2.656+j12.448
PLANTA DE BOMBEO SANTA ROSA APODACA	PBA-115	115.0	12.84	8.61	0.830+j5.106	2.785+j12.490	14.49	9.59	0.753+j4.984	2.782+j12.469
PLANTA DUPONT	DUT-115	115.0	16.63	14.60	0.784+j3.914	0.941+j5.710	19.18	16.55	0.742+j3.735	0.945+j5.678
PLANTA EL SALTO	STO-115	115.0	2.36	2.08	9.770+j26.388	10.633+j38.316	2.96	3.07	7.560+j23.504	3.726+j21.907
PLANTA FALCÓN	PFA-115	115.0	4.12	4.95	3.264+j15.769	0.283+j8.139	4.77	5.64	2.717+j15.064	0.293+j8.346
PLAYA	PLY-115	115.0	7.90	5.06	1.180+j8.318	4.976+j22.085	9.15	5.89	1.063+j7.907	4.631+j20.779
PLAZA SF6	PZA-400	400.0	18.98	18.54	2.405+j11.930	1.684+j12.992	24.52	22.66	1.489+j10.254	1.668+j12.845
PLAZA SF6	PZA-115	115.0	36.79	29.22	0.362+j1.768	0.379+j3.195	43.91	33.89	0.278+j1.640	0.372+j3.121
POLARIS	POI-115	115.0	16.18	13.38	0.566+j4.064	1.259+j6.566	20.29	16.24	0.413+j3.576	1.234+j6.214



Subestación Eléctrica	Acrónimo	Tensión (kV)	Corriente de cortocircuito (kA) e impedancias de Thévenin secuencias positiva y cero (Ω)							
			NCC mínimo 2026				NCC máximo 2026			
			3F	1F	ZTH(+)	ZTH(0)	3F	1F	ZTH(+)	ZTH(0)
POLICYD	PLC-115	115.0	18.48	15.51	0.656+j3.532	1.153+j5.592	21.37	17.65	0.617+j3.361	1.145+j5.513
POLVORÍN	POL-115	115.0	16.74	13.83	0.706+j3.903	1.323+j6.382	20.69	17.36	0.577+j3.482	1.082+j5.504
POSCO DE MÉXICO	PCO-115	115.0	20.95	14.20	0.439+j3.139	1.438+j7.585	25.28	18.93	0.375+j2.864	0.916+j5.771
PRAX AIR	PAX-115	115.0	27.24	20.68	0.499+j2.385	0.855+j4.684	31.55	23.32	0.419+j2.276	0.855+j4.690
PRIMEX	PRX-115	115.0	20.01	15.79	0.571+j3.269	1.077+j5.913	24.15	20.82	0.496+j2.983	0.689+j4.466
PROEZA GREDE	PGR-115	115.0	22.17	17.24	0.562+j2.942	1.903+j5.271	25.53	19.46	0.484+j2.820	1.902+j5.251
PROLAMSA	POM-115	115.0	17.81	8.61	0.668+j3.667	3.146+j15.374	20.33	9.60	0.588+j3.544	3.131+j15.316
PROLEC	PLE-115	115.0	16.82	11.61	0.723+j3.880	2.017+j9.048	19.15	12.98	0.643+j3.760	2.016+j9.033
PROLEC PARTICULAR	PLP-115	115.0	22.82	16.92	0.531+j2.861	1.125+j5.851	28.71	19.86	0.415+j2.510	1.095+j5.848
PROLOGIS	POG-138	138.0	10.94	8.60	1.701+j7.084	2.732+j13.051	13.78	10.48	1.287+j6.226	2.581+j12.252
PROLOGIS-APODACA	PLG-115	115.0	18.94	14.06	0.634+j3.448	1.372+j7.025	21.81	15.85	0.556+j3.302	1.367+j7.000
PROPARK	PPK-115	115.0	6.20	3.87	2.011+j10.517	6.969+j29.304	7.07	4.33	1.874+j10.158	6.958+j29.149
PROPASA	PDP-115	115.0	19.20	13.55	0.641+j3.398	1.774+j7.588	24.55	15.96	0.510+j2.930	1.731+j7.594
PTA BOMBEO CUATRO	PBC-115	115.0	2.12	1.61	5.723+j30.754	18.670+j58.164	2.36	1.79	5.550+j30.466	18.646+j58.006
PTA DE TRATAMIENTO DE AGUAS RESIDUALES NORESTE	RNE-115	115.0	11.33	7.42	0.957+j5.784	3.281+j14.775	12.75	8.25	0.879+j5.662	3.278+j14.754
PTA. BOMBEO TRES	PBT-115	115.0	2.67	2.14	4.378+j24.505	14.950+j41.070	2.97	2.37	4.206+j24.215	14.927+j40.913
PUENTE INTERNACIONAL	PUI-138	138.0	7.79	6.84	2.039+j10.028	2.739+j14.260	10.41	8.49	1.379+j8.303	2.710+j13.820
PUENTES (1)	PTS-115B2	115.0	16.58	8.17	0.714+j3.940	3.287+j16.038	20.48	9.33	0.598+j3.516	3.245+j16.044
PUENTES (2)	PTS-115B1	115.0	15.98	10.52	0.762+j4.085	2.018+j10.440	19.20	12.11	0.660+j3.745	2.001+j10.292
PUERTO	PUO-115	115.0	24.72	17.03	0.325+j2.667	1.120+j6.255	30.05	21.87	0.270+j2.416	0.850+j5.136
PUERTO ALTAMIRA ELÉCTRICA	PAE-400	400.0	22.41	24.95	0.842+j10.269	0.776+j7.326	36.44	43.75	0.366+j6.962	0.339+j4.217
PUERTO ALTAMIRA ELÉCTRICA	PAE-115	115.0	26.30	18.29	0.287+j2.508	1.007+j5.787	32.15	23.75	0.233+j2.260	0.737+j4.675
QUÍMICA FLUOR	QFL-138	138.0	9.46	7.48	2.118+j8.150	3.299+j14.978	11.02	8.50	1.886+j7.729	3.285+j14.831
RAMOS ARIZPE	RRA-115	115.0	21.21	18.50	0.612+j3.070	0.870+j4.434	25.94	22.15	0.480+j2.774	0.836+j4.185
RAMOS ARIZPE POTENCIA	RAP-400	400.0	22.03	19.86	1.880+j10.312	2.534+j13.765	28.25	24.38	1.120+j8.922	2.259+j13.123
RAMOS ARIZPE POTENCIA	RAP-115	115.0	28.42	29.45	0.400+j2.301	0.232+j2.096	37.70	41.29	0.254+j1.920	0.118+j1.439
RASSINI	RNI-138	138.0	7.05	5.60	2.428+j11.045	4.097+j19.645	9.24	6.80	1.767+j9.316	4.071+j19.233
RAYÓN	RAY-115	115.0	2.44	1.60	7.892+j26.011	24.449+j65.497	2.70	1.77	7.837+j25.903	24.489+j65.387
REAL DE PALMAS	RDP-115	115.0	15.43	10.07	0.756+j4.235	2.393+j10.931	17.56	11.25	0.668+j4.105	2.392+j10.913
REBOMBEO I	RBV-115	115.0	2.84	1.99	7.842+j22.061	17.099+j50.382	3.12	2.19	7.813+j22.029	17.138+j50.523
REBOMBEO II	RBD-115	115.0	4.15	3.15	4.510+j15.356	9.099+j29.950	4.57	3.46	4.481+j15.323	9.137+j30.090
REFINERÍA MADERO	RMA-115	115.0	12.43	8.89	0.964+j5.255	2.442+j11.505	15.87	11.81	0.736+j4.542	1.739+j9.230
REGIDORES	RGS-115	115.0	9.03	6.56	1.206+j7.254	3.124+j15.384	10.54	7.44	1.026+j6.852	3.121+j15.321
REYNOSA	REY-138	138.0	15.08	13.68	1.156+j5.155	1.245+j6.889	18.69	16.31	0.870+j4.608	1.213+j6.702
REYNOSA CENTRO	RYC-138	138.0	11.28	9.27	1.580+j6.885	2.522+j11.473	13.60	10.74	1.300+j6.314	2.518+j11.384
RHEEM	RHM-138	138.0	7.17	7.22	3.166+j10.653	2.433+j10.672	9.07	8.72	2.394+j9.358	2.436+j10.556
RICSA	RIS-138	138.0	10.19	7.74	1.965+j7.565	3.675+j14.912	12.52	9.16	1.611+j6.812	3.582+j14.363
RIEL	RIE-115	115.0	28.12	19.57	0.466+j2.315	1.063+j5.356	32.30	21.66	0.394+j2.227	1.082+j5.489
RIO	RIO-115	115.0	19.98	12.89	0.659+j3.256	1.570+j8.673	22.95	14.51	0.575+j3.130	1.563+j8.599
RIO BRAVO	RIB-230	230.0	12.84	12.16	1.982+j10.151	2.337+j12.184	18.54	19.63	1.043+j7.809	0.729+j6.713



Niveles de cortocircuito de la Red Nacional de Transmisión
Gerencia de Control Regional Noreste

Subestación Eléctrica	Acrónimo	Tensión (kV)	Corriente de cortocircuito (kA) e impedancias de Thévenin secuencias positiva y cero (Ω)							
			NCC mínimo 2026				NCC máximo 2026			
			3F	1F	ZTH(+)	ZTH(0)	3F	1F	ZTH(+)	ZTH(0)
RIO BRAVO	RIB-138	138.0	15.20	14.89	1.214+j5.100	0.815+j5.640	22.04	24.32	0.677+j3.918	0.243+j3.071
RIO BRAVO III	RBT-400	400.0	10.87	12.95	2.826+j21.051	0.872+j12.639	16.10	19.56	1.303+j15.726	0.442+j8.307
RIO BRAVO IV	RBC-400	400.0	10.95	13.08	2.807+j20.903	0.816+j12.458	16.08	19.56	1.305+j15.746	0.442+j8.307
RIO BRAVO PONIENTE	RBP-138	138.0	11.48	9.01	1.560+j6.764	2.304+j12.558	15.05	11.74	1.074+j5.723	1.903+j10.765
RIO ESCONDIDO	REC-400	400.0	8.37	8.31	5.012+j27.137	3.443+j28.356	22.77	26.50	0.712+j11.135	0.451+j6.781
RIO ESCONDIDO	REC-230	230.0	10.47	12.62	2.363+j12.461	0.575+j6.298	22.63	27.56	0.516+j6.433	0.118+j2.783
RIO ESCONDIDO	REC-138	138.0	9.93	11.71	1.267+j7.920	0.290+j4.406	14.68	16.68	0.581+j5.940	0.209+j3.756
RIO SALADO	SDO-138	138.0	3.61	2.46	6.002+j21.250	13.670+j51.056	4.23	3.69	5.302+j20.044	5.225+j29.439
RÍO VERDE	RVE-115	115.0	2.21	1.38	8.782+j28.661	26.926+j80.050	2.45	1.52	8.726+j28.557	26.965+j79.939
ROCKWELL	ROW-115	115.0	16.99	12.01	0.681+j3.848	1.683+j8.597	18.82	13.21	0.642+j3.828	1.686+j8.657
SABINAS	SAB-115	115.0	3.64	3.14	3.440+j17.936	5.484+j26.417	4.38	3.65	2.768+j16.430	5.469+j26.168
SABINAS HIDALGO	SAH-115	115.0	1.97	2.07	10.328+j32.124	2.799+j29.093	2.18	2.30	10.223+j31.981	2.724+j28.559
SALITRILLO	SLT-115	115.0	4.28	3.53	2.830+j15.255	8.290+j24.129	4.77	3.92	2.751+j15.053	8.289+j24.096
SALITRILLOS	SLT-138	138.0	5.70	7.03	1.857+j13.862	0.977+j6.022	6.52	7.99	1.619+j13.348	0.991+j5.993
SALTILLO	SAL-230	230.0	12.37	13.54	1.856+j10.569	0.911+j7.969	14.58	15.70	1.485+j9.910	0.907+j7.857
SALTILLO	SAL-115	115.0	23.85	25.90	0.546+j2.729	0.221+j2.128	28.46	30.37	0.439+j2.529	0.220+j2.079
SAN AGUSTÍN	AUS-115	115.0	26.40	18.86	0.485+j2.467	1.003+j5.446	30.77	21.48	0.401+j2.340	0.993+j5.364
SAN BARTOLO	SBT-115	115.0	1.11	0.89	14.134+j58.160	41.402+j97.004	1.23	0.98	13.995+j57.815	41.384+j96.874
SAN BERNABÉ	BER-115	115.0	16.78	10.99	0.732+j3.888	2.130+j9.991	19.03	12.26	0.659+j3.781	2.129+j9.978
SAN CARLOS POTENCIA	SCP-400	400.0	8.64	7.59	2.868+j26.589	5.638+j37.405	10.02	8.67	2.333+j25.256	5.560+j36.950
SAN CRISTOBAL	CRB-138	138.0	10.21	7.59	1.683+j7.617	3.350+j15.645	12.46	9.49	1.332+j6.907	2.559+j13.477
SAN FERNANDO	FDO-115	115.0	0.82	0.49	28.576+j75.250	78.867+j230.091	0.91	0.54	28.556+j75.213	78.858+j230.005
SAN JORGE	JOR-115	115.0	20.36	13.53	0.614+j3.202	1.576+j8.051	23.64	15.24	0.516+j3.046	1.577+j8.051
SAN JUAN	JAN-115	115.0	6.18	4.06	2.076+j10.541	6.870+j26.791	7.18	4.60	1.898+j10.000	6.845+j26.438
SAN MARCOS	MCO-115	115.0	7.46	4.97	1.588+j8.754	4.903+j21.745	8.77	5.68	1.411+j8.212	4.878+j21.392
SAN MARTIN	SMA-115	115.0	12.18	7.99	0.854+j5.385	2.299+j13.847	13.73	8.89	0.774+j5.261	2.298+j13.829
SAN NICOLÁS	NIC-400	400.0	24.11	23.89	2.202+j9.320	1.538+j9.758	33.48	30.69	1.305+j7.474	1.540+j9.548
SAN NICOLÁS	NIC-115	115.0	34.11	31.14	0.333+j1.918	0.215+j2.503	40.27	35.68	0.255+j1.796	0.217+j2.508
SAN NICOLÁS (BUS B)	NIC-115B	115.0	29.86	28.59	0.337+j2.198	0.213+j2.518	34.89	32.62	0.258+j2.077	0.215+j2.525
SAN ROBERTO	RBO-115	115.0	0.89	0.95	33.791+j66.579	20.639+j56.579	1.06	1.11	30.061+j62.149	20.534+j56.088
SAN ROQUE	ROQ-115B	115.0	18.48	12.52	0.656+j3.532	1.831+j8.532	20.32	13.40	0.609+j3.542	1.925+j8.961
SANDOVAL	SDV-138	138.0	8.04	6.85	2.597+j9.558	3.348+j14.918	9.43	7.86	2.307+j9.003	3.316+j14.674
SANTA AMALIA TAMAULIPAS	AAT-115	115.0	20.08	19.18	0.486+j3.271	0.446+j3.794	23.35	22.13	0.448+j3.096	0.440+j3.668
SANTA CATARINA	CAT-115	115.0	11.43	7.62	1.101+j5.704	2.870+j14.215	12.89	8.48	1.016+j5.575	2.869+j14.206
SANTA CRUZ	STZ-115	115.0	20.95	15.49	0.533+j3.125	1.245+j6.401	23.29	16.98	0.489+j3.098	1.258+j6.507
SANTA ELENA	STE-115	115.0	10.60	6.69	0.940+j6.192	3.745+j16.837	11.92	7.44	0.856+j6.064	3.744+j16.821
SANTANDER	SNT-138	138.0	16.15	15.65	1.029+j4.824	0.876+j5.433	20.26	18.88	0.742+j4.262	0.847+j5.276
SANTO DOMINGO	DON-400	400.0	24.78	24.58	2.297+j9.031	1.398+j9.506	35.23	32.26	1.374+j7.079	1.369+j9.126
SANTO DOMINGO	DON-115	115.0	41.45	42.44	0.325+j1.569	0.113+j1.498	49.54	49.34	0.245+j1.454	0.112+j1.495
SANTO DOMINGO VIEJO PROVISIONAL	DVP-115	115.0	21.36	15.56	0.577+j3.055	1.508+j6.417	27.73	18.49	0.450+j2.595	1.466+j6.422



**Niveles de cortocircuito de la Red Nacional de Transmisión
Gerencia de Control Regional Noreste**

Subestación Eléctrica	Acrónimo	Tensión (kV)	Corriente de cortocircuito (kA) e impedancias de Thévenin secuencias positiva y cero (Ω)							
			NCC mínimo 2026				NCC máximo 2026			
			3F	1F	ZTH(+)	ZTH(0)	3F	1F	ZTH(+)	ZTH(0)
SELLO ROJO	SER-115	115.0	4.32	3.15	2.368+j15.182	7.097+j31.726	4.98	3.87	2.132+j14.507	5.192+j26.880
SENDERO NACIONAL	SEN-138	138.0	10.43	8.54	1.791+j7.427	2.404+j12.692	12.18	9.73	1.566+j7.025	2.394+j12.578
SERVER	SVR-115	115.0	10.07	7.71	1.268+j6.471	3.506+j12.182	11.61	8.80	1.135+j6.189	3.459+j11.874
SIDERÚRGICA	SIG-138	138.0	11.38	9.79	1.641+j6.807	1.943+j10.438	13.37	11.22	1.417+j6.399	1.932+j10.319
SIDERÚRGICA DEL GOLFO S.A.	SGA-230	230.0	9.54	7.85	2.418+j13.715	4.793+j22.724	12.73	10.87	1.470+j11.382	3.185+j17.252
SIECOR	SIE-138	138.0	13.83	10.13	1.363+j5.598	2.775+j11.852	17.09	11.91	1.067+j5.017	2.709+j11.581
SINAÍ	SIN-138	138.0	12.54	10.06	1.393+j6.199	2.252+j10.913	15.48	12.37	1.072+j5.559	1.879+j9.819
SOLIDARIDAD	SRD-115	115.0	16.04	10.45	0.756+j4.070	2.275+j10.551	18.17	11.65	0.682+j3.961	2.275+j10.537
SORIANA CEDIS	SOC-115	115.0	13.35	7.97	0.993+j4.873	3.320+j14.689	15.09	8.87	0.907+j4.754	3.319+j14.670
SOTO LA MARINA	SOT-115	115.0	1.05	0.70	20.655+j59.571	58.817+j145.502	1.16	0.77	20.625+j59.540	58.858+j145.644
SPARTECH	SEH-115	115.0	14.66	10.83	0.769+j4.464	1.860+j9.156	17.64	12.90	0.621+j4.093	1.755+j8.538
STIVA	STV-115	115.0	16.67	12.27	0.679+j3.925	1.805+j8.078	20.36	14.36	0.541+j3.546	1.794+j7.904
TAMALIN	TLN-115	115.0	2.99	1.87	5.808+j21.466	23.041+j57.672	3.32	2.07	5.742+j21.257	23.020+j57.567
TAMAULIPAS	TAM-115	115.0	14.21	10.77	0.867+j4.591	2.301+j8.912	16.75	12.64	0.787+j4.289	2.211+j8.384
TAMAZUNCHALE 115	TZE-115	115.0	6.80	5.23	1.817+j9.592	3.783+j18.157	7.46	5.75	1.813+j9.624	3.777+j18.083
TAMAZUNCHALE 400	TMH-400	400.0	24.07	24.82	0.677+j9.569	0.440+j8.098	27.45	28.32	0.526+j9.239	0.420+j7.813
TAMBACA	TBC-115	115.0	3.39	2.33	5.399+j18.825	16.598+j43.495	3.75	2.57	5.347+j18.711	16.637+j43.386
TAMOS	TMO-400	400.0	17.45	14.74	1.255+j13.178	4.132+j20.369	23.45	19.37	0.816+j10.805	3.564+j17.613
TAMOS	TMO-115	115.0	20.45	18.34	0.484+j3.211	0.757+j4.358	23.86	21.33	0.440+j3.029	0.706+j4.147
TAMPICO	TPC-230	230.0	15.29	15.28	0.993+j8.626	1.404+j9.002	17.92	17.63	0.870+j8.105	1.387+j8.824
TAMPICO	TPC-115	115.0	25.73	27.64	0.376+j2.553	0.261+j2.105	30.56	32.44	0.332+j2.367	0.255+j2.034
TAMPIQUITO	TPQ-115	115.0	25.60	18.43	0.449+j2.554	0.922+j5.549	29.60	20.74	0.371+j2.439	0.923+j5.557
TANCOL	TCL-115	115.0	16.52	14.11	0.671+j3.963	1.858+j5.890	19.08	16.05	0.625+j3.777	1.849+j5.808
TECHNOCAST	THC-115	115.0	14.17	10.22	0.766+j4.622	2.061+j9.933	17.03	12.15	0.617+j4.243	1.947+j9.276
TECNOLÓGICO POTENCIA SF6	TEC-400	400.0	18.45	17.64	2.514+j12.259	1.857+j14.216	23.85	21.56	1.575+j10.536	1.825+j13.969
TECNOLÓGICO POTENCIA SF6	TEC-115	115.0	40.02	37.12	0.338+j1.624	0.210+j2.048	48.20	44.33	0.254+j1.494	0.186+j1.909
TEKSID	TKS-115	115.0	8.61	7.84	1.131+j7.632	1.779+j9.887	9.98	8.92	0.961+j7.252	1.776+j9.819
TELEFLEX	TLX-138	138.0	6.93	6.73	2.798+j11.146	2.096+j12.396	8.72	8.08	2.038+j9.842	2.099+j12.283
TEMPOAL II	TED-115	115.0	2.45	1.52	6.021+j26.418	17.954+j74.555	2.70	1.68	6.013+j26.399	17.946+j74.473
TERNIUM MANIOBRAS	TNM-400	400.0	11.81	8.73	2.543+j19.393	7.776+j39.669	15.83	11.83	1.344+j15.987	5.970+j31.980
TEXTILERAS	TXE-115	115.0	15.69	11.68	0.687+j4.174	1.652+j8.488	18.17	13.39	0.638+j3.970	1.604+j8.219
TIERRA NUEVA	TNA-115	115.0	6.15	4.49	3.398+j10.249	7.353+j21.560	6.80	4.96	3.364+j10.201	7.347+j21.480
TOPO CHICO	THO-115	115.0	21.22	16.28	0.592+j3.072	1.031+j5.890	24.41	18.32	0.511+j2.948	1.031+j5.890
TOSHIBA	TOS-115	115.0	10.45	5.64	1.313+j6.215	5.000+j22.027	11.74	6.26	1.226+j6.097	4.999+j22.009
TRANE	TNE-115	115.0	16.67	12.27	0.679+j3.925	1.805+j8.078	20.36	14.36	0.541+j3.546	1.794+j7.904
TRES MESAS MANIOBRAS	TMS-400	400.0	9.34	6.59	2.490+j24.595	11.831+j54.716	10.97	7.54	2.082+j23.053	11.780+j54.016
TRIARA II	TII-115	115.0	18.06	13.36	0.706+j3.607	1.367+j7.440	20.91	15.08	0.622+j3.437	1.361+j7.420
TRICO COMPTS.	TCO-138	138.0	10.72	8.95	1.711+j7.233	2.226+j11.841	12.54	10.21	1.488+j6.827	2.216+j11.728
TUBACERO MONTERREY	TBM-115	115.0	20.17	14.47	0.610+j3.235	1.640+j7.002	25.98	17.11	0.480+j2.770	1.598+j7.008
UCAR	UCA-230	230.0	14.61	12.15	1.566+j8.952	3.406+j14.242	18.25	14.53	1.134+j7.924	3.362+j13.820



Subestación Eléctrica	Acrónimo	Tensión (kV)	Corriente de cortocircuito (kA) e impedancias de Thévenin secuencias positiva y cero (Ω)							
			NCC mínimo 2026				NCC máximo 2026			
			3F	1F	ZTH(+)	ZTH(0)	3F	1F	ZTH(+)	ZTH(0)
UNIDAD DEPORTIVA	UDP-138	138.0	6.77	6.56	3.267+j11.314	3.288+j12.472	8.51	7.88	2.490+j9.998	3.283+j12.336
UNIVERSIDAD	UNI-115	115.0	19.91	13.31	0.618+j3.276	1.644+j8.132	23.50	15.11	0.500+j3.068	1.644+j8.129
UNIVERSIDAD SACH	UNT-115	115.0	15.73	12.07	0.736+j4.158	1.628+j7.954	18.88	14.38	0.635+j3.817	1.490+j7.409
VALADECES	VDL-138	138.0	6.60	4.15	3.278+j11.622	8.395+j32.385	7.74	5.09	2.887+j10.951	6.832+j28.197
VALLE	VLL-115	115.0	26.84	25.68	0.450+j2.433	0.335+j2.797	31.14	29.17	0.371+j2.316	0.336+j2.804
VALLE ALTO	VAL-115	115.0	12.15	10.24	1.057+j5.361	1.980+j8.326	13.70	11.49	1.008+j5.236	2.023+j8.208
VALLE DEL ROBLE	VRO-115	115.0	9.25	6.24	1.183+j7.081	3.676+j17.173	10.68	7.12	1.062+j6.755	3.604+j16.718
VALLE HERMOSO	VHE-138	138.0	3.17	2.69	7.824+j23.909	9.474+j37.509	3.59	3.04	7.429+j23.247	9.309+j36.646
VALLE ORIENTE	VOT-115	115.0	35.77	27.96	0.377+j1.818	0.434+j3.393	42.60	32.37	0.294+j1.689	0.427+j3.317
VALLE PONIENTE	VAP-115	115.0	15.23	11.59	0.831+j4.278	1.586+j8.320	17.64	13.08	0.707+j4.080	1.586+j8.324
VALLE SOLEADO DEFINITIVO	VSL-115	115.0	20.85	13.51	0.634+j3.120	1.677+j8.211	23.25	14.63	0.583+j3.086	1.727+j8.519
VALLE SUR	VSR-138	138.0	3.61	3.40	6.812+j20.966	6.431+j25.664	4.12	3.87	6.421+j20.297	6.265+j24.801
VALLES	VES-115	115.0	12.25	10.26	1.037+j5.321	1.962+j8.386	13.79	11.48	0.991+j5.204	2.000+j8.288
VENTIKA MANIOBRAS	VKM-230	230.0	6.56	7.09	3.384+j19.954	2.439+j15.677	7.47	8.00	3.033+j19.311	2.432+j15.555
VERDE CO.	VEC-138	138.0	9.59	7.13	2.107+j8.035	4.076+j16.541	11.87	8.56	1.710+j7.185	3.892+j15.591
VICTORIA	VRA-115	115.0	7.72	6.15	1.444+j8.477	3.893+j14.749	8.54	6.78	1.411+j8.435	3.906+j14.738
VIDRIERA MONTERREY	VMO-115	115.0	23.21	16.67	0.545+j2.809	1.176+j6.116	26.78	18.81	0.462+j2.688	1.173+j6.087
VILLA DE CASAS	VDC-115	115.0	2.29	1.56	10.371+j27.118	23.199+j65.867	2.52	1.71	10.341+j27.086	23.239+j66.008
VILLA DE GARCIA	VDG-400	400.0	27.50	27.98	1.703+j8.224	1.347+j7.923	37.29	35.41	0.920+j6.750	1.345+j7.832
VILLA DE GARCIA	VDG-230	230.0	23.82	27.53	0.834+j5.513	0.298+j3.338	28.87	32.58	0.552+j5.029	0.298+j3.337
VILLA DE GARCIA	VDG-115	115.0	27.14	31.24	0.410+j2.411	0.103+j1.482	31.04	35.42	0.348+j2.327	0.103+j1.473
VILLA DE JUÁREZ DOS	VJD-115	115.0	10.61	7.31	1.066+j6.168	3.085+j14.424	12.82	8.51	0.889+j5.629	3.060+j14.071
VILLA DE SANTIAGO	VDS-115	115.0	9.11	5.86	1.692+j7.090	5.442+j18.677	10.22	6.52	1.604+j6.967	5.418+j18.537
VILLA FLORIDA	VLf-138	138.0	15.34	13.98	1.097+j5.077	1.170+j6.699	19.15	16.81	0.805+j4.506	1.114+j6.461
VISTEON	VIS-115	115.0	15.53	10.99	0.748+j4.210	1.952+j9.372	17.66	12.31	0.674+j4.080	1.946+j9.335
WHIRLPOOL	WHI-115	115.0	14.30	10.47	0.790+j4.574	1.949+j9.552	17.18	12.44	0.642+j4.203	1.845+j8.933
WHIRLPOOL APODACA	WHA-115	115.0	23.98	18.26	0.495+j2.724	0.992+j5.284	30.58	21.60	0.378+j2.359	0.960+j5.282
XICOTENCATL II	XID-115	115.0	1.73	1.10	12.102+j36.391	34.699+j99.350	1.94	1.24	11.650+j35.763	32.858+j96.013
XOCHIPILLI	XOC-115	115.0	9.12	7.76	1.217+j7.178	2.073+j10.947	10.80	8.92	1.014+j6.689	2.066+j10.861
YESOS INDUSTRIALES DEL NORTE	YIN-115	115.0	32.31	10.59	0.454+j2.004	5.588+j13.643	38.05	11.84	0.376+j1.882	5.587+j13.622
ZACUALTIPÁN	ZAC-115	115.0	1.12	0.74	18.032+j56.416	50.469+j143.522	1.23	0.81	18.016+j56.386	50.463+j143.421
ZAPALINAME	ZPL-115	115.0	12.52	9.83	0.970+j5.213	1.914+j9.475	14.44	11.15	0.850+j4.986	1.903+j9.354
ZINC NACIONAL	ZNA-115	115.0	25.77	13.35	0.477+j2.532	1.942+j9.575	29.85	14.95	0.402+j2.413	1.942+j9.572

Gerencia de Control Regional Baja California

Sistema Interconectado Baja California



Regresar a mapa del SEN



Subestación Eléctrica	Acrónimo	Tensión (kV)	Corriente de cortocircuito (kA) e impedancias de Thévenin secuencias positiva y cero (Ω)							
			NCC mínimo 2026				NCC máximo 2026			
			3F	1F	ZTH(+)	ZTH(0)	3F	1F	ZTH(+)	ZTH(0)
ACUEDUCTO	ACU-115	115.0	3.47	2.64	3.103+j18.858	10.454+j35.808	4.13	3.05	2.770+j17.458	10.435+j35.129
AEROPUERTO DOS	APD-230	230.0	11.67	9.16	1.428+j11.292	3.749+j20.362	13.29	10.28	1.348+j10.905	3.787+j20.278
AGUAS DE ENSENADA	AUE-115	115.0	7.90	8.22	1.505+j8.274	1.403+j7.389	10.07	10.26	1.157+j7.162	1.338+j6.815
ALAMAR	ALA-69	69.0	20.00	15.85	0.335+j1.963	0.642+j3.507	23.32	18.06	0.303+j1.855	0.638+j3.477
BAJA RECYCLING	B.REC	69.0	14.40	13.20	0.404+j2.738	0.642+j3.467	16.47	14.90	0.376+j2.634	0.643+j3.460
BAJÍO	BAJ-69	69.0	6.23	2.16	2.073+j6.053	10.721+j41.304	6.96	2.38	2.041+j5.955	10.718+j41.280
CACHANILLA	KCH-161	161.0	17.85	14.46	0.586+j5.174	1.795+j8.687	20.58	16.51	0.529+j4.941	1.761+j8.475
CÁRDENAS	CNA-69	69.0	14.96	10.58	0.520+j2.611	1.155+j5.865	17.53	12.06	0.466+j2.456	1.151+j5.811
CARRANZA	CNZ-161	161.0	16.96	14.16	0.635+j5.443	1.739+j8.540	19.31	16.00	0.592+j5.262	1.719+j8.406
CAÑÓN	KON-115	115.0	2.59	1.99	7.769+j24.481	10.810+j47.498	2.96	2.25	7.374+j23.510	10.768+j47.156
CEMENTOS	CEC-115	115.0	7.48	6.77	1.628+j8.726	5.870+j10.629	9.42	8.22	1.286+j7.644	5.779+j10.100
CENTENARIO	CNT-230	230.0	16.07	12.14	0.949+j8.209	3.663+j15.901	19.00	14.17	0.835+j7.644	3.595+j15.171
CENTINELA	CTA-69	69.0	2.61	3.04	3.730+j14.813	11.348+j4.907	2.87	3.35	3.719+j14.791	11.347+j4.889
CENTRO	CRO-230	230.0	18.70	15.24	0.809+j7.054	1.801+j11.787	22.19	17.85	0.700+j6.545	1.768+j11.248
CENTRO	CRO-161	161.0	21.60	20.30	0.478+j4.276	0.705+j5.064	25.20	23.51	0.419+j4.036	0.684+j4.876
CERRO PRIETO CUATRO	CPC-161	161.0	14.15	14.12	0.696+j6.534	0.795+j6.536	15.76	15.69	0.678+j6.453	0.797+j6.504
CERRO PRIETO DOS	CPD-230	230.0	21.22	20.77	0.649+j6.223	0.869+j6.563	25.10	24.82	0.565+j5.792	0.774+j5.934
CERRO PRIETO TRES	CPT-230	230.0	21.01	20.17	0.678+j6.285	0.991+j6.989	25.13	24.91	0.577+j5.783	0.752+j5.883
CERRO PRIETO UNO	CPU-161	161.0	13.48	12.31	0.794+j6.848	1.338+j8.736	15.07	13.73	0.770+j6.742	1.327+j8.654
CESPT	CPT-69	69.0	13.75	9.38	0.462+j2.861	1.382+j6.815	15.84	10.59	0.423+j2.734	1.376+j6.763
CETYS	CTY-230	230.0	11.61	9.24	1.407+j11.348	3.499+j19.909	13.24	10.36	1.323+j10.950	3.560+j19.902
CETYS	CTY-161	161.0	19.77	18.09	0.551+j4.670	0.928+j5.918	22.74	20.68	0.503+j4.468	0.898+j5.754
CHAPULTEPEC	CHQ-230	230.0	10.70	7.71	1.534+j12.320	6.364+j26.060	12.05	8.64	1.476+j12.035	6.332+j25.733
CICLO COMBINADO MEXICALI	CCM-230	230.0	27.02	22.04	0.493+j4.889	1.248+j8.159	35.87	36.43	0.336+j4.059	0.333+j3.892
CIPRÉS	CIP-230	230.0	5.83	5.90	3.843+j22.446	2.572+j22.326	7.39	7.32	2.922+j19.561	2.277+j20.658
CIPRÉS	CIP-115	115.0	8.77	10.27	1.331+j7.450	0.401+j4.345	11.44	13.36	0.979+j6.311	0.317+j3.707
COLONET	COE-115	115.0	1.90	1.31	11.227+j33.096	19.489+j79.502	2.15	1.47	10.809+j32.152	19.446+j79.156
COMISIÓN ESTATAL DE SERVICIOS PÚBLICOS DE TIJUANA	CES-69	69.0	18.06	14.40	0.341+j2.180	0.714+j3.835	21.55	16.69	0.288+j2.013	0.710+j3.771
CUCAPAH	CUC-400	400.0	4.23	3.65	3.083+j54.508	3.582+j80.507	5.08	4.44	2.475+j49.975	4.997+j71.346
CUCAPAH	CUC-230	230.0	20.15	17.61	0.724+j6.551	1.615+j9.276	24.32	20.91	0.607+j5.976	1.594+j8.796
DURAZNO	DRA-69	69.0	12.64	9.49	0.562+j3.102	1.056+j6.206	14.55	10.76	0.518+j2.966	1.038+j6.124
DYNAMIC PLASTICS	PLA-69	69.0	16.34	14.29	0.425+j2.400	0.594+j3.445	19.03	16.37	0.381+j2.271	0.590+j3.390
ENCINAL	ENL-69	69.0	4.39	3.92	1.475+j8.956	1.992+j12.186	4.88	4.37	1.448+j8.869	1.936+j11.983
ENSENADA	EDA-115	115.0	7.76	7.94	1.557+j8.416	1.660+j7.887	9.78	9.75	1.228+j7.369	1.620+j7.448
FÁBRICAS MONTERREY	FAM-115	115.0	7.50	7.39	1.617+j8.701	2.061+j9.121	9.43	9.02	1.283+j7.641	2.019+j8.669
FEVISA	FEV-161	161.0	12.16	9.30	1.057+j7.569	2.954+j14.398	13.80	10.45	1.001+j7.341	2.933+j14.247
FLORIDO	FLO-69	69.0	14.10	9.32	0.522+j2.776	1.611+j7.003	16.14	10.45	0.489+j2.671	1.610+j6.981
FRANCISCO VILLA	FCO-69	69.0	13.50	10.13	0.502+j2.907	1.486+j5.719	15.48	11.42	0.464+j2.793	1.484+j5.689
FRONTERA	FTA-69	69.0	16.89	12.04	0.411+j2.323	1.076+j5.102	19.50	13.60	0.378+j2.215	1.074+j5.077
GALLO	GLL-115	115.0	7.81	7.89	1.558+j8.352	1.991+j8.097	9.90	9.73	1.219+j7.279	1.948+j7.607



Subestación Eléctrica	Acrónimo	Tensión (kV)	Corriente de cortocircuito (kA) e impedancias de Thévenin secuencias positiva y cero (Ω)							
			NCC mínimo 2026				NCC máximo 2026			
			3F	1F	ZTH(+)	ZTH(0)	3F	1F	ZTH(+)	ZTH(0)
GONZÁLEZ ORTEGA	GOR-161	161.0	18.35	15.65	0.571+j5.032	1.459+j7.520	20.81	17.63	0.536+j4.883	1.448+j7.417
GUERRERO	GER-69	69.0	16.93	12.23	0.455+j2.308	0.971+j4.979	19.97	14.00	0.402+j2.158	0.968+j4.930
HIDALGO	HGO-161	161.0	9.70	9.04	1.178+j9.507	1.970+j11.456	10.73	10.02	1.160+j9.455	1.953+j11.355
HIPÓDROMO	HMO-69	69.0	26.95	21.25	0.294+j1.449	0.581+j2.613	32.83	24.82	0.247+j1.312	0.580+j2.584
HUNTER	HTR-69	69.0	16.68	11.31	0.423+j2.351	1.219+j5.669	19.55	12.85	0.377+j2.210	1.218+j5.642
HYUNDAI	HIU-69	69.0	27.01	17.65	0.272+j1.449	0.635+j3.777	32.38	20.34	0.237+j1.333	0.629+j3.719
INDUSTRIAL	INA-69	69.0	24.71	18.06	0.289+j1.586	0.704+j3.328	29.46	20.75	0.250+j1.466	0.704+j3.306
JATAY	JAT-115	115.0	3.69	2.78	2.932+j17.765	9.839+j34.379	4.38	3.20	2.610+j16.488	9.821+j33.842
JOYA	JOY-115	115.0	7.92	8.43	1.027+j8.322	1.381+j6.768	13.13	13.66	0.589+j5.533	1.290+j4.812
KENWORTH	KEN-230	230.0	6.49	7.84	2.372+j20.328	1.782+j9.667	7.30	8.85	2.274+j19.870	1.769+j9.322
LA ENCANTADA	ENA-69	69.0	17.33	17.96	0.403+j2.263	0.356+j2.033	20.10	20.69	0.368+j2.149	0.351+j1.980
LA HERRADURA	HRA-230	230.0	21.50	20.11	0.783+j6.126	1.257+j7.416	28.72	25.40	0.530+j5.058	1.278+j7.112
LA HERRADURA	HRA-69	69.0	26.71	29.70	0.200+j1.478	0.083+j1.046	31.52	34.53	0.171+j1.380	0.083+j1.039
LA JOVITA	JOV-230	230.0	7.64	8.48	1.947+j17.281	0.887+j13.104	9.09	9.97	1.664+j15.978	0.873+j12.679
LA MESA	LMS-69	69.0	22.14	16.83	0.347+j1.765	0.704+j3.438	26.35	19.37	0.301+j1.636	0.703+j3.406
LA ROSITA	ROA-230	230.0	31.70	27.38	0.432+j4.167	0.995+j6.096	41.08	38.54	0.309+j3.543	0.657+j4.230
LAGO	LGO-69	69.0	15.14	11.49	0.508+j2.582	1.003+j5.043	17.54	13.05	0.463+j2.455	1.000+j4.998
LIBRAMIENTO	LIB-230	230.0	13.11	12.16	1.051+j10.077	2.260+j12.172	14.56	13.53	1.032+j9.979	2.247+j11.981
LOMAS	LOS-230	230.0	5.93	5.66	3.694+j22.093	3.354+j25.774	7.51	6.95	2.809+j19.255	3.160+j24.345
LOMAS	LOS-115	115.0	8.20	9.39	1.397+j7.971	0.482+j5.109	10.37	11.70	1.090+j6.961	0.443+j4.710
LOMAS	LOS-69	69.0	2.58	2.72	2.931+j15.177	0.634+j13.079	3.20	3.41	2.360+j13.493	0.515+j11.268
MABAMEX	MAB-69	69.0	17.07	10.99	0.395+j2.299	1.012+j6.130	19.78	12.42	0.360+j2.186	1.007+j6.089
MANEADERO	MND-115	115.0	5.96	5.12	2.111+j10.940	3.127+j16.389	7.32	6.10	1.747+j9.818	3.046+j15.788
MANIOBRAS GONZÁLEZ ORTEGA	MGO-230	230.0	20.45	20.29	0.708+j6.455	0.794+j6.537	23.81	23.52	0.640+j6.102	0.779+j6.265
MANIOBRAS GONZÁLEZ ORTEGA	MGO-161	161.0	17.65	13.50	0.564+j5.237	1.268+j9.983	19.90	15.18	0.535+j5.111	1.237+j9.797
MANIOBRAS PARQUE INDUSTRIAL SUR	MIS-230	230.0	16.16	13.48	1.163+j8.133	2.744+j12.928	21.73	17.05	0.811+j6.672	2.716+j12.181
MANIOBRAS PUERTO PEÑASCO	PPF-400	400.0	1.52	0.96	8.938+j151.311	80.167+j414.631	2.18	2.54	5.363+j116.658	2.888+j66.046
MANIOBRAS SAN LUIS	ESL-230	230.0	15.32	16.71	0.832+j8.630	0.586+j6.303	16.98	18.64	0.819+j8.564	0.570+j6.109
MANIOBRAS SANTA CLARA	MSC-400	400.0	2.28	1.58	5.836+j101.061	37.140+j233.262	2.97	2.54	4.170+j85.478	21.803+j126.945
MATRIX	MATRIX-69	69.0	10.91	6.40	0.864+j3.547	2.475+j11.104	12.43	7.15	0.824+j3.427	2.475+j11.082
MESA INDUSTRIAL GROUP	MGI-69	69.0	15.24	9.85	0.574+j2.550	1.483+j6.749	17.61	11.10	0.534+j2.430	1.483+j6.727
METRÓPOLI POTENCIA	MEP-230	230.0	21.69	21.50	0.815+j6.068	1.014+j6.285	31.10	29.48	0.495+j4.670	0.996+j5.577
METRÓPOLI POTENCIA	MEP-69	69.0	31.31	31.69	0.176+j1.260	0.119+j1.229	38.05	37.96	0.141+j1.143	0.113+j1.172
MEXICALI DOS	MXI-230	230.0	24.55	22.41	0.618+j5.374	1.065+j6.841	29.58	26.65	0.519+j4.911	1.045+j6.470
MEXICALI DOS	MXI-161	161.0	24.96	24.62	0.393+j3.703	0.482+j3.827	29.68	28.99	0.325+j3.430	0.461+j3.651
MEXICALI ORIENTE	MOE-161	161.0	15.04	13.38	0.728+j6.136	1.428+j8.342	17.04	15.09	0.687+j5.962	1.403+j8.194
MÉXICO	MXC-69	69.0	16.41	11.09	0.502+j2.375	1.224+j5.801	19.26	12.62	0.450+j2.230	1.220+j5.759
MINERA	MIN-115	115.0	0.76	0.64	28.905+j82.026	36.657+j134.930	0.85	0.70	28.616+j81.420	36.657+j134.847
MISIÓN	MSN-115	115.0	3.41	2.67	3.119+j19.230	10.146+j34.431	4.08	3.10	2.773+j17.685	10.122+j33.568
MONTECITO	MUE-69	69.0	17.23	13.04	0.431+j2.271	0.905+j4.461	20.13	14.86	0.387+j2.142	0.903+j4.423



Subestación Eléctrica	Acrónimo	Tensión (kV)	Corriente de cortocircuito (kA) e impedancias de Thévenin secuencias positiva y cero (Ω)							
			NCC mínimo 2026				NCC máximo 2026			
			3F	1F	ZTH(+)	ZTH(0)	3F	1F	ZTH(+)	ZTH(0)
NACUZARI	NZI-161	161.0	15.73	12.26	0.751+j5.862	1.933+j10.739	17.94	13.85	0.701+j5.655	1.906+j10.575
OJOS NEGROS	ONG-69	69.0	1.24	0.94	11.299+j30.172	16.463+j60.679	1.44	1.08	10.705+j28.494	16.344+j58.865
ÓPTICA	OPT-69	69.0	23.42	16.79	0.273+j1.679	0.771+j3.645	27.69	19.19	0.238+j1.564	0.771+j3.623
ORIZABA	OZA-230	230.0	20.51	16.19	0.754+j6.429	2.024+j11.466	24.48	19.00	0.647+j5.932	1.991+j10.960
P. I. VALLE SUR	VAL-69	69.0	14.72	9.67	0.536+j2.652	1.359+j6.819	17.18	10.96	0.483+j2.505	1.356+j6.775
PACÍFICO	PAF-69	69.0	23.77	17.63	0.264+j1.655	0.698+j3.367	28.92	20.52	0.216+j1.500	0.696+j3.330
PACKARD	PKD-161	161.0	20.36	18.16	0.541+j4.533	1.064+j6.113	23.70	20.89	0.481+j4.288	1.045+j5.951
PANAMERICANA FRACCIONAMIENTO	PNM-115	115.0	6.36	5.48	1.343+j10.357	3.464+j15.146	9.57	7.61	0.890+j7.579	3.381+j13.217
PANAMERICANA POTENCIA	PAP-230	230.0	17.57	18.16	1.087+j7.480	0.876+j6.883	25.94	25.82	0.626+j5.597	0.849+j5.905
PANAMERICANA POTENCIA	PAP-69	69.0	36.56	41.96	0.153+j1.079	0.047+j0.679	47.05	52.80	0.107+j0.925	0.046+j0.648
PAREDONES	PAR-161	161.0	7.93	4.76	1.538+j11.624	7.890+j34.215	8.85	5.28	1.493+j11.453	7.873+j34.114
PARQUE INDUSTRIAL	PID-230	230.0	14.96	15.91	0.872+j8.832	0.806+j7.079	16.59	17.74	0.858+j8.761	0.791+j6.890
PARQUE INDUSTRIAL LOS OLIVOS	POL-69	69.0	17.50	18.80	0.398+j2.241	0.284+j1.789	20.32	21.71	0.363+j2.126	0.279+j1.734
PARQUE INDUSTRIAL PACÍFICO	PFCO	69.0	15.11	12.44	0.453+j2.597	0.862+j4.256	17.69	14.22	0.405+j2.444	0.861+j4.225
PLANTA DE BOMBEO UNO	PB1-69	69.0	12.52	6.78	0.694+j3.105	2.617+j10.958	14.48	7.62	0.642+j2.957	2.613+j10.908
POPOPOTLA	POP-115	115.0	4.84	4.26	1.916+j13.584	5.718+j18.691	6.46	5.42	1.496+j11.198	5.674+j17.117
PRESIDENTE JUÁREZ	PJZ-230	230.0	19.62	22.01	0.966+j6.698	0.542+j4.685	33.78	41.93	0.403+j4.305	0.169+j2.122
PRESIDENTE JUÁREZ	PJZ-115	115.0	9.03	10.46	0.706+j7.315	0.202+j4.385	16.13	19.15	0.276+j4.519	0.109+j2.425
PUERTO NUEVO	PNU-115	115.0	3.96	3.79	2.494+j16.586	5.636+j18.386	4.97	4.67	2.107+j14.544	5.594+j16.855
PUNTA CHINA	PCH-115	115.0	2.15	1.84	8.043+j29.836	10.993+j45.065	2.45	2.08	7.663+j28.751	10.921+j44.524
RÍO	RII-69	69.0	21.49	16.16	0.378+j1.815	0.742+j3.622	25.69	18.64	0.328+j1.674	0.739+j3.584
RÍO NUEVO	RIN-161	161.0	18.60	15.55	0.589+j4.962	1.476+j7.789	21.50	17.80	0.531+j4.725	1.450+j7.586
RSI HOME PRODUCTS	RSI-69	69.0	24.77	20.85	0.251+j1.588	0.478+j2.479	29.45	24.21	0.216+j1.472	0.473+j2.425
RUBÍ	RUB-230	230.0	13.71	13.64	1.384+j9.590	1.481+j9.861	19.95	19.17	0.816+j7.277	1.426+j8.416
RUBÍ	RUB-69	69.0	27.88	28.58	0.188+j1.417	0.130+j1.329	34.97	35.10	0.135+j1.246	0.125+j1.259
RUIZ CORTINEZ	RZC-230	230.0	11.63	10.99	1.423+j11.332	1.873+j13.142	13.01	12.28	1.385+j11.145	1.862+j12.966
RUIZ CORTINEZ	RZC-161	161.0	11.85	12.67	0.864+j7.797	0.604+j6.243	13.12	14.07	0.847+j7.745	0.588+j6.143
RUMOROSA	RUM-230	230.0	9.96	8.46	1.593+j13.235	2.731+j20.242	11.47	9.65	1.459+j12.648	2.726+j19.776
RUMOROSA	RUM-69	69.0	10.16	13.47	0.355+j3.904	0.051+j1.035	11.25	14.93	0.344+j3.881	0.050+j1.017
SAMSUNG	SAM-230	230.0	19.18	17.72	0.923+j6.860	1.527+j8.581	26.58	23.30	0.602+j5.463	1.509+j7.873
SAN FELIPE	SAF-115	115.0	0.77	0.67	27.610+j81.110	26.695+j124.450	0.86	0.74	27.320+j80.492	26.694+j124.367
SAN LUIS REY	SRY-230	230.0	11.09	9.19	1.351+j11.902	4.335+j18.847	12.36	10.23	1.321+j11.746	4.321+j18.640
SAN MATÍAS	SMT-115	115.0	1.18	1.43	17.703+j53.575	0.976+j27.744	1.31	1.59	17.426+j52.945	0.975+j27.662
SAN QUINTÍN	SQN-115	115.0	1.18	0.73	19.820+j52.427	39.890+j154.394	1.33	0.82	19.359+j51.541	39.845+j154.043
SAN SIMÓN	SMN-115	115.0	0.96	0.58	22.992+j65.220	50.890+j201.251	1.07	0.64	22.522+j64.346	50.844+j200.898
SAN VICENTE	SVE-115	115.0	2.59	1.92	7.419+j24.556	12.072+j50.972	2.97	2.17	7.026+j23.553	12.023+j50.582
SÁNCHEZ TABOADA	STB-230	230.0	21.75	19.34	0.714+j6.063	1.461+j8.230	25.91	22.70	0.618+j5.605	1.448+j7.886
SANTA ISABEL	SIS-230	230.0	25.35	21.51	0.580+j5.207	1.378+j7.917	31.19	26.72	0.467+j4.660	1.263+j6.934
SANTA ISABEL	SIS-161	161.0	24.64	24.30	0.360+j3.756	0.539+j3.879	28.81	28.39	0.307+j3.535	0.490+j3.670
SAUZAL	SAZ-115	115.0	3.34	2.59	3.400+j19.576	9.982+j35.960	3.95	2.98	3.035+j18.218	9.943+j35.381



Subestación Eléctrica	Acónimo	Tensión (kV)	Corriente de cortocircuito (kA) e impedancias de Thévenin secuencias positiva y cero (Ω)							
			NCC mínimo 2026				NCC máximo 2026			
			3F	1F	ZTH(+)	ZTH(0)	3F	1F	ZTH(+)	ZTH(0)
SEMINARIO	SIO-69	69.0	15.16	8.99	0.481+j2.583	1.724+j7.869	17.53	10.11	0.439+j2.461	1.722+j7.836
SHARP	SHA-115	115.0	8.25	8.77	0.831+j8.009	0.699+j6.618	13.96	14.42	0.397+j5.216	0.622+j4.729
SIDERÚRGICA	CSC-230	230.0	14.88	11.48	1.155+j8.849	3.285+j16.498	17.29	13.23	1.057+j8.384	3.200+j15.907
SKYWORKS	SKW-161	161.0	17.54	14.85	0.654+j5.260	1.329+j8.046	20.08	16.87	0.606+j5.056	1.300+j7.880
SONY	SON-69	69.0	11.03	6.17	0.695+j3.545	2.562+j11.886	12.60	6.90	0.649+j3.418	2.559+j11.841
TAYCO	TYC-69	69.0	16.13	12.61	0.453+j2.428	0.877+j4.458	18.76	14.36	0.409+j2.300	0.874+j4.414
TECATE DOS	TCD-69	69.0	7.69	5.49	0.904+j5.102	2.235+j11.201	8.62	6.13	0.875+j5.008	2.193+j11.068
TECATE UNO	TCU-69	69.0	8.74	3.60	0.976+j4.451	6.079+j23.335	9.84	3.99	0.945+j4.354	6.071+j23.300
TECNOLÓGICO	TEK-230	230.0	17.94	15.04	0.886+j7.351	2.307+j11.429	20.89	17.26	0.801+j6.948	2.298+j11.153
TECOLOTE	TEE-69	69.0	15.93	10.67	0.377+j2.472	1.290+j6.074	18.81	12.18	0.326+j2.307	1.287+j6.027
TECRA	TCR-69	69.0	8.42	3.39	1.046+j4.614	6.506+j24.963	9.46	3.76	1.015+j4.518	6.498+j24.928
TENSHO	TSHO-115	115.0	8.47	9.24	0.793+j7.802	0.532+j5.883	14.55	15.63	0.360+j5.007	0.455+j3.996
THOMSOM	THO-230	230.0	18.25	14.97	0.876+j7.225	2.263+j11.822	21.44	17.30	0.780+j6.767	2.250+j11.478
TIJUANA I	TJI-230	230.0	24.74	27.02	0.707+j5.320	0.482+j4.054	35.59	37.33	0.422+j4.082	0.500+j3.664
TIJUANA I	TJI-69	69.0	39.04	45.51	0.125+j1.013	0.038+j0.592	48.25	55.40	0.094+j0.903	0.038+j0.572
TIJUANA I	TJI-69A	69.0	18.46	20.58	0.353+j2.129	0.097+j1.502	21.66	24.06	0.309+j2.000	0.091+j1.436
TOREO	TOR-69	69.0	16.95	12.79	0.479+j2.301	0.837+j4.580	19.92	14.64	0.428+j2.158	0.828+j4.526
TOYOTA	TOY-230	230.0	15.49	12.71	1.104+j8.499	2.597+j14.038	19.70	15.33	0.837+j7.368	2.612+j13.668
TRINIDAD	TRI-115	115.0	1.52	1.42	13.460+j41.456	10.396+j52.586	1.71	1.58	13.119+j40.658	10.390+j52.447
UNIVERSIDAD	UND-69	69.0	17.35	11.47	0.440+j2.253	1.265+j5.696	20.26	12.99	0.396+j2.127	1.265+j5.671
VALLE DE GUADALUPE	VLP-69	69.0	2.25	1.53	6.169+j16.610	11.136+j41.327	2.63	1.75	5.826+j15.603	11.092+j40.610
VALLE DE LAS PALMAS	VPM-69	69.0	3.22	2.19	5.177+j11.249	7.011+j29.369	3.62	2.43	5.095+j10.976	7.020+j29.258
VALLE DE PUEBLA	VPA-230	230.0	18.66	17.32	0.819+j7.070	1.348+j8.601	21.65	19.94	0.746+j6.706	1.335+j8.332
VALLE DORADO	VLD-115	115.0	7.39	7.09	1.619+j8.842	3.158+j9.776	9.32	8.69	1.272+j7.732	3.069+j9.196
VALLE POTENCIA	VPO-230	230.0	10.65	9.28	1.492+j12.379	3.314+j17.575	11.87	10.32	1.461+j12.223	3.306+j17.410
VALLECITOS	VLC-69	69.0	2.45	1.63	6.627+j14.845	10.867+j39.515	2.79	1.83	6.460+j14.328	10.862+j39.212
VICTORIA POTENCIA	VIC-230	230.0	7.52	5.06	2.277+j17.513	10.527+j42.090	8.41	5.64	2.218+j17.229	10.495+j41.763
VIGOBITE	VIB-69	69.0	20.38	13.02	0.362+j1.921	1.137+j5.150	24.02	14.80	0.320+j1.796	1.137+j5.127
WISTERIA	WIS-230	230.0	25.13	21.87	0.605+j5.250	1.286+j7.515	30.52	26.20	0.501+j4.760	1.254+j7.040
XOCHIMILCO	XCO-230	230.0	22.49	18.61	0.680+j5.864	1.689+j9.429	26.95	21.91	0.578+j5.388	1.663+j9.011

Gerencia de Control Regional Baja California

Sistema Interconectado Baja California Sur



Regresar a mapa del SEN



Subestación Eléctrica	Acrónimo	Tensión (kV)	Corriente de cortocircuito (kA) e impedancias de Thévenin secuencias positiva y cero (Ω)							
			NCC mínimo 2026				NCC máximo 2026			
			3F	1F	ZTH(+)	ZTH(0)	3F	1F	ZTH(+)	ZTH(0)
AEROPUERTO SAN JOSÉ	ASJ-115	115.0	1.92	1.97	18.957+j28.841	8.427+j32.005	4.04	3.20	4.314+j17.572	8.387+j31.130
AURA SOLAR	ASU-115	115.0	2.84	3.63	10.364+j20.912	1.026+j8.472	8.38	8.76	1.190+j8.635	1.169+j7.475
BLEDALES	BLE-115	115.0	2.80	3.20	10.704+j21.170	2.991+j15.026	8.37	7.45	1.349+j8.623	2.774+j11.643
BUENA VISTA	BUV-115	115.0	1.62	1.26	19.352+j36.047	18.836+j75.797	2.81	1.72	6.662+j25.093	18.286+j73.339
CABO BELLO	CAB-115	115.0	2.03	2.37	18.751+j26.875	4.013+j19.158	5.20	4.89	3.102+j13.691	3.788+j16.297
CABO DEL SOL	CAS-115	115.0	2.02	2.37	18.699+j26.974	3.813+j19.317	4.99	4.65	3.256+j14.272	3.750+j17.489
CABO FALSO	CAF-115	115.0	2.09	2.54	18.260+j26.058	2.686+j15.708	6.09	6.28	2.483+j11.743	2.227+j10.683
CABO REAL	CRE-115	115.0	2.11	2.68	18.128+j25.696	2.334+j12.274	5.35	5.62	3.047+j13.310	2.325+j11.453
CABO SAN LUCAS DOS	CAD-115	115.0	2.13	2.66	18.217+j25.380	2.261+j13.402	6.24	6.61	2.519+j11.440	1.870+j9.555
CAMINO REAL	CAR-115	115.0	2.05	1.53	14.078+j29.140	12.001+j65.121	4.67	2.46	3.423+j15.273	10.331+j56.720
CENTRAL TURBOGÁS LOS CABOS	TCB-230	230.0	1.12	1.52	66.775+j97.581	2.526+j29.001	3.40	4.00	7.459+j42.373	1.878+j23.596
COROMUEL	COR-230	230.0	1.67	2.29	34.480+j71.455	0.798+j16.206	4.56	5.72	2.951+j31.917	0.613+j12.551
EL PALMAR	ELP-230	230.0	1.16	1.58	65.405+j93.626	2.501+j26.674	3.52	4.14	7.660+j40.819	2.329+j22.680
EL PALMAR	ELP-115	115.0	2.23	3.10	17.611+j24.083	0.412+j5.282	6.25	7.87	2.562+j11.409	0.402+j4.456
EL RECREO	RCO-115	115.0	2.82	3.27	10.621+j21.048	2.599+j13.957	8.39	7.60	1.295+j8.607	2.523+j11.157
EL TRIUNFO	ETR-115	115.0	1.89	1.41	16.002+j31.242	14.814+j71.199	3.79	2.07	4.619+j18.715	13.600+j65.869
ERENDIRA	ERE-115	115.0	2.78	3.21	10.893+j21.273	2.467+j14.605	11.25	12.88	0.702+j6.454	0.525+j3.988
GENERAL AGUSTÍN OLACHEA	GAO-115	115.0	1.35	1.68	15.246+j46.851	1.600+j20.780	3.29	4.18	2.607+j22.054	0.306+j8.032
INSURGENTES	INS-115	115.0	1.24	1.38	21.048+j49.183	12.318+j35.789	2.67	2.69	6.113+j26.700	7.533+j25.593
LA PAZ	LPZ-115	115.0	2.56	2.70	11.632+j23.132	4.827+j21.881	7.17	5.87	1.905+j10.013	4.158+j16.429
LAS PILAS	LAP-115	115.0	1.68	1.59	14.975+j36.572	13.784+j44.249	3.29	2.60	4.727+j21.667	11.338+j38.480
LORETO	LRO-115	115.0	0.62	0.45	39.705+j99.079	54.169+j221.170	0.90	0.58	23.597+j77.639	49.094+j210.599
LOS FILOS	LF1-115	115.0	2.00	1.70	12.143+j30.974	13.160+j49.085	3.68	2.51	3.939+j19.450	12.613+j45.785
MONTE REAL	MOR-115	115.0	1.97	2.11	18.838+j27.910	7.053+j27.496	4.29	3.56	4.075+j16.535	7.025+j26.648
OLAS ALTAS	OLA-230	230.0	1.63	2.16	38.160+j72.218	2.721+j22.141	4.69	5.37	3.293+j30.953	2.738+j19.148
OLAS ALTAS	OLA-115	115.0	3.01	4.03	10.148+j19.606	0.477+j5.635	9.82	11.36	0.987+j7.370	0.601+j4.379
PALMILLA	PAA-115	115.0	2.50	2.62	11.571+j23.897	5.238+j22.818	6.97	5.78	1.784+j10.322	4.330+j16.399
PALMILLA	PML-115	115.0	1.99	2.28	18.707+j27.613	4.995+j21.105	4.54	4.13	3.650+j15.675	4.985+j20.288
PUERTO ESCONDIDO	PES-115	115.0	0.68	0.51	36.581+j90.545	47.004+j189.925	1.02	0.67	20.585+j68.931	41.938+j179.365
PUNTA PRIETA	PUP-115	115.0	2.83	3.42	10.693+j20.857	1.912+j11.614	11.71	15.08	0.635+j6.206	0.182+j2.044
PUNTA PRIETA II	PUP-115B	115.0	2.82	3.40	10.684+j20.976	1.893+j11.796	11.53	15.03	0.652+j6.299	0.127+j1.908
REFORMAS AGRARIAS	REA-115	115.0	1.87	1.59	12.813+j33.136	14.860+j52.454	3.32	2.31	4.508+j21.504	14.159+j48.903
ROFOMEX	RFO-115	115.0	1.04	0.85	30.516+j56.205	30.446+j102.124	1.50	1.10	20.902+j43.806	29.287+j98.702
SAN JOSÉ DEL CABO	SJC-115	115.0	2.08	2.44	18.538+j26.048	4.222+j18.366	4.92	4.59	3.560+j14.398	4.208+j17.547
SANTIAGO	SNT-115	115.0	1.65	1.35	19.705+j35.096	17.868+j65.677	2.89	1.87	6.305+j24.444	17.544+j64.071
SANTO DOMINGO	DOM-115	115.0	1.11	1.12	22.492+j55.200	16.987+j57.085	2.17	1.89	7.418+j32.861	12.186+j46.868
TURBOGÁS LOS CABOS	TCB-115	115.0	2.14	2.76	17.612+j25.584	0.948+j11.226	7.10	8.87	1.799+j10.125	0.186+j4.167
VILLA CONSTITUCIÓN	VIO-115	115.0	1.43	1.59	17.666+j43.009	8.160+j31.775	3.52	3.92	3.654+j20.447	1.943+j14.235

Gerencia de Control Regional Baja California

Sistema Interconectado Mulegé



Regresar a mapa del SEN



Niveles de cortocircuito de la Red Nacional de Transmisión

Gerencia de Control Regional Mulege

Subestación Eléctrica	Acrónimo	Tensión (kV)	Corriente de cortocircuito (kA) e impedancias de Thévenin secuencias positiva y cero (Ω)							
			NCC mínimo 2026				NCC máximo 2026			
			3F	1F	ZTH(+)	ZTH(0)	3F	1F	ZTH(+)	ZTH(0)
BAHÍA ASUNCIÓN	BAS-115	115.0	0.35	0.44	46.405+j183.835	7.789+j61.295	0.57	0.69	34.954+j123.314	7.601+j60.277
MEZQUITAL	MEZ-115	115.0	0.51	0.65	18.475+j130.032	6.443+j37.220	1.19	1.36	4.950+j60.927	6.407+j36.670
SANTA ROSALÍA	SRI-115	115.0	0.47	0.62	22.095+j139.232	2.738+j29.402	1.18	1.42	4.975+j61.955	2.632+j28.554
TRES VÍRGENES	GLV-115	115.0	0.51	0.64	16.620+j128.768	6.636+j44.690	1.09	1.22	6.144+j66.680	6.608+j44.232
VIZCAÍNO	VIZ-115	115.0	0.51	0.61	17.745+j129.433	7.579+j49.385	1.08	1.17	6.563+j67.479	7.502+j48.906

Gerencia de Control Regional Peninsular



[Regresar a mapa del SEN](#)



Subestación Eléctrica	Acrónimo	Tensión (kV)	Corriente de cortocircuito (kA) e impedancias de Thévenin secuencias positiva y cero (Ω)							
			NCC mínimo 2026				NCC máximo 2026			
			3F	1F	ZTH(+)	ZTH(0)	3F	1F	ZTH(+)	ZTH(0)
AH KIM PECH	AKI-115	115.0	4.68	4.02	4.145+j13.578	6.473+j20.211	5.94	4.87	3.303+j11.850	6.440+j19.391
AK TUNCHEN	AUC-115	115.0	8.40	6.90	1.883+j7.678	3.078+j12.694	10.10	7.99	1.507+j7.069	3.075+j12.598
AKBAL	AKL-115	115.0	2.70	2.63	7.471+j23.441	3.582+j26.586	3.08	2.98	7.038+j22.675	3.450+j25.990
AKUMAL II	AKD-115	115.0	7.06	5.40	2.307+j9.115	4.366+j17.508	8.37	6.19	1.926+j8.510	4.363+j17.405
ALOM	ALO-115	115.0	16.16	14.31	0.785+j4.034	1.307+j5.814	19.34	16.46	0.664+j3.718	1.306+j5.804
API SEYBA PLAYA	API-115	115.0	4.22	3.20	4.062+j15.182	6.740+j30.085	5.30	3.80	3.212+j13.405	6.706+j29.357
AVENTURA PALACE	AVP-115	115.0	8.49	7.53	1.819+j7.605	2.496+j10.506	10.23	8.76	1.443+j6.995	2.494+j10.409
BALAM	BLM-230	230.0	6.34	7.15	4.976+j20.357	1.061+j13.895	8.74	9.38	2.807+j16.475	1.013+j13.251
BALAM	BLM-115	115.0	13.52	17.00	1.355+j4.722	0.187+j1.901	19.62	23.81	0.765+j3.644	0.177+j1.747
BICENTERARIO	BIN-115	115.0	13.18	11.74	1.100+j4.917	2.092+j6.838	15.64	13.47	0.961+j4.570	2.089+j6.807
BONAMPAK	BNP-115	115.0	12.17	14.72	1.554+j5.230	0.436+j2.587	17.69	20.61	0.883+j4.033	0.392+j2.338
BONFIL	BNI-115	115.0	9.74	8.75	1.764+j6.583	2.173+j8.860	13.69	11.52	1.034+j5.234	1.931+j8.125
CALICA	CLC-115	115.0	8.87	8.47	1.795+j7.268	2.333+j8.206	10.91	10.02	1.360+j6.553	2.333+j8.164
CALKINI II	CKD-115	115.0	3.30	2.07	5.663+j19.293	18.492+j52.875	3.76	2.32	5.336+j18.652	18.479+j52.709
CANCUN	CNC-115	115.0	12.06	13.04	1.541+j5.286	0.877+j4.178	18.19	19.77	0.807+j3.932	0.457+j3.013
CANDELARIA II	CAS-115	115.0	1.79	1.24	9.140+j36.047	33.925+j80.021	2.03	1.38	8.638+j34.930	33.921+j79.937
CANEK	CEK-115	115.0	11.66	11.69	1.584+j5.471	1.255+j5.502	16.36	15.42	0.970+j4.356	1.163+j5.145
CAPTACIÓN	CAP-115	115.0	5.68	4.08	2.921+j11.318	5.964+j24.720	6.79	4.68	2.478+j10.469	5.956+j24.586
CAUCEL POTENCIA	CCP-230	230.0	11.23	12.85	1.732+j11.702	1.000+j7.901	14.87	16.18	1.158+j9.755	1.003+j7.759
CAUCEL POTENCIA	CCP-115	115.0	18.74	22.28	0.622+j3.489	0.196+j2.086	22.93	26.45	0.491+j3.147	0.197+j2.079
CAYAL	CYL-115	115.0	2.42	1.63	7.396+j26.437	18.305+j65.014	2.86	1.86	6.508+j24.652	18.273+j64.233
CD. DEL CARMEN	CRE-115	115.0	3.64	4.23	3.579+j17.876	1.842+j10.543	5.34	6.45	1.946+j13.542	0.847+j7.213
CEMENTOS MAYA	CMY-115	115.0	13.01	11.06	1.095+j4.986	2.073+j7.827	15.18	12.55	0.994+j4.708	2.067+j7.805
CENTRO	CNO-115	115.0	15.98	13.14	0.922+j4.052	1.673+j6.860	19.16	15.11	0.793+j3.729	1.672+j6.836
CHAAC	HAA-115	115.0	10.03	11.60	1.890+j6.346	0.827+j3.835	13.97	15.41	1.193+j5.089	0.809+j3.668
CHAMPOTON	CMO-115	115.0	3.90	2.70	4.329+j16.452	9.816+j38.560	4.72	3.12	3.631+j15.038	9.793+j38.194
CHANKANAAB	CHB-115	115.0	6.49	4.86	3.314+j9.680	6.727+j19.341	8.26	5.74	2.484+j8.490	6.732+j19.338
CHANKANAAB II	CHS-115	115.0	6.68	5.77	3.236+j9.401	5.271+j13.646	8.52	6.90	2.417+j8.225	5.277+j13.643
CHEMAX	CEX-115	115.0	3.11	2.10	5.065+j20.704	15.975+j49.915	3.78	2.42	4.498+j18.795	15.933+j49.266
CHETUMAL NORTE	CTE-115	115.0	3.19	3.12	6.446+j19.821	4.905+j21.619	4.75	4.20	3.684+j14.932	4.847+j20.660
CHICBUL	CBU-115	115.0	2.97	1.99	5.216+j21.757	14.097+j53.571	3.46	2.25	4.687+j20.601	14.094+j53.465
CHOLUL	HOL-115	115.0	13.43	11.67	1.140+j4.810	2.359+j7.044	15.95	13.39	1.000+j4.469	2.355+j7.010
CHUBURNA	CBR-115	115.0	13.17	10.91	1.122+j4.914	2.001+j8.192	15.63	12.48	0.983+j4.568	1.997+j8.161
CONCORDIA	CNR-115	115.0	3.30	3.38	4.235+j19.675	3.989+j18.296	4.69	4.79	2.576+j15.372	2.993+j14.965
DZITAS	DZI-115	115.0	3.54	2.62	4.425+j18.207	11.232+j37.046	4.28	3.03	3.973+j16.582	11.213+j36.518
DZITNUP	DZT-400	400.0	10.39	12.43	2.651+j22.068	0.738+j10.707	12.28	14.52	1.685+j20.610	0.732+j10.573
DZYTIA	DYT-115	115.0	13.11	10.71	0.883+j4.985	2.028+j8.676	15.53	12.24	0.744+j4.643	2.021+j8.632
ENVASES UNIVERSALES DE MEXICO	EUM-115	115.0	4.03	2.82	3.349+j16.113	9.779+j36.717	4.54	3.13	3.205+j15.778	9.778+j36.701
ESCÁRCEGA	ESA-400	400.0	5.88	6.39	5.646+j38.863	1.980+j30.219	7.63	7.92	3.175+j33.143	1.919+j29.657
ESCÁRCEGA	ESA-230	230.0	6.49	8.02	3.473+j20.175	0.544+j8.888	9.31	11.04	1.729+j15.592	0.518+j8.460



Subestación Eléctrica	Acrónimo	Tensión (kV)	Corriente de cortocircuito (kA) e impedancias de Thévenin secuencias positiva y cero (Ω)							
			NCC mínimo 2026				NCC máximo 2026			
			3F	1F	ZTH(+)	ZTH(0)	3F	1F	ZTH(+)	ZTH(0)
ESCÁRCEGA	ESA-115	115.0	7.25	8.94	1.199+j9.074	0.090+j4.035	9.16	11.03	0.719+j7.942	0.087+j3.952
HECELCHACAN	HCE-115	115.0	3.10	1.83	6.067+j20.572	14.921+j64.141	3.59	2.06	5.568+j19.571	14.908+j63.798
HÉROES	HRO-115	115.0	13.81	12.05	1.126+j4.676	2.387+j6.722	16.38	13.82	0.994+j4.347	2.384+j6.692
HIDROGENADORA YUCATECA	HRA-115	115.0	18.10	19.69	0.703+j3.600	0.522+j3.036	21.64	22.88	0.603+j3.321	0.515+j3.010
HOLPECHEN	HOP-115	115.0	1.24	0.79	15.379+j51.355	43.576+j139.317	1.39	0.87	14.855+j50.381	43.561+j138.970
HUNABKU	HBK-115	115.0	10.30	12.10	1.872+j6.170	0.730+j3.488	14.38	16.16	1.184+j4.939	0.710+j3.314
HUNUCMA	HNC-115	115.0	5.08	3.56	2.434+j12.837	7.645+j29.156	5.75	3.96	2.291+j12.502	7.644+j29.141
HUXECTAMAN	HUX-115	115.0	13.44	11.83	1.046+j4.827	1.728+j7.042	15.75	13.46	0.941+j4.542	1.722+j7.019
IBEROESTAR	IBR-115	115.0	8.08	6.97	1.672+j8.044	2.651+j11.829	9.94	8.22	1.180+j7.250	2.633+j11.661
INSURGENTES	INS-115	115.0	3.21	3.18	6.352+j19.683	4.467+j20.915	4.80	4.30	3.597+j14.786	4.410+j19.958
ISLA DE TRIS	ILT-115	115.0	3.66	4.14	3.496+j17.802	2.569+j11.586	5.28	5.98	1.943+j13.708	2.141+j9.340
ITZAES	IZE-115	115.0	14.59	12.44	0.998+j4.440	1.616+j6.979	17.26	14.21	0.882+j4.140	1.613+j6.960
ITZIMNA	IZI-115	115.0	13.36	12.65	1.097+j4.846	2.215+j5.685	15.88	14.58	0.955+j4.499	2.209+j5.643
IXCHEL	IXC-115	115.0	7.22	6.24	2.773+j8.763	6.112+j12.191	9.12	7.46	2.165+j7.707	6.101+j12.035
IZAMAL	IZL-115	115.0	3.24	3.14	5.742+j19.688	2.868+j22.554	3.69	3.55	5.491+j19.002	2.825+j22.222
KABAH	KAB-115	115.0	10.69	12.68	1.807+j5.941	0.651+j3.225	15.06	17.09	1.123+j4.719	0.631+j3.048
KALA	KAL-115	115.0	5.49	5.11	3.219+j11.666	4.013+j14.252	7.24	6.44	2.314+j9.822	3.975+j13.378
KAMBUL	KBL-115	115.0	2.76	2.88	6.382+j23.226	2.215+j21.199	3.33	3.37	5.280+j21.300	2.218+j21.192
KANASÍN POTENCIA	KNP-230	230.0	12.32	12.81	1.694+j10.644	1.717+j9.911	16.07	15.75	1.159+j9.018	1.725+j9.824
KANASÍN POTENCIA	KNP-115	115.0	18.10	25.50	0.676+j3.605	0.093+j0.652	22.15	31.16	0.537+j3.253	0.091+j0.556
KANTENÁH	KTH-400	400.0	4.87	5.57	10.074+j46.381	2.424+j29.333	6.21	6.89	6.361+j40.384	2.385+j28.583
KANTENÁH	KTH-115	115.0	11.41	13.70	1.204+j5.691	0.182+j2.905	14.21	16.73	0.834+j5.071	0.180+j2.804
KAY	KAY-115	115.0	8.04	6.82	1.767+j8.066	3.239+j12.285	10.49	8.27	1.117+j6.875	3.227+j12.151
KEEH	KEE-115	115.0	9.35	8.45	1.778+j6.875	2.233+j9.101	13.01	10.82	1.053+j5.514	2.148+j8.761
KEKEN	KEK-115	115.0	12.07	13.28	1.403+j5.319	0.951+j3.877	16.62	17.32	0.851+j4.311	0.948+j3.740
KINICH AHAU	KAH-230	230.0	4.36	5.11	5.186+j30.011	1.858+j17.079	7.68	8.70	1.961+j18.924	1.331+j12.302
KOHUNLICH	KHN-115	115.0	12.02	12.33	1.359+j5.354	1.050+j5.000	16.21	15.70	0.859+j4.422	1.040+j4.833
KOPTE	KOP-115	115.0	4.76	3.45	3.559+j13.500	9.873+j28.334	5.33	3.83	3.473+j13.266	9.869+j28.293
KUKULKAN	KUK-115	115.0	11.00	10.61	1.691+j5.792	1.323+j6.581	15.35	13.83	1.054+j4.641	1.231+j6.197
LAGUNA DE TÉRMINOS	LTE-115	115.0	3.32	3.39	4.214+j19.543	4.027+j18.329	4.73	4.81	2.556+j15.239	3.031+j14.998
LÁZARO CÁRDENAS	LAC-115	115.0	2.37	1.90	8.812+j26.582	14.234+j46.793	3.07	2.28	6.695+j22.819	14.189+j46.156
LEE	LEE-115	115.0	8.55	4.31	1.244+j7.663	9.829+j29.330	9.87	4.82	1.103+j7.317	9.825+j29.274
LEONA VICARIO	LEV-400	400.0	5.05	5.65	9.639+j44.709	2.965+j30.846	6.56	7.08	5.768+j38.281	2.969+j29.852
LEONA VICARIO	LEV-115	115.0	13.47	15.62	1.177+j4.785	0.318+j2.887	18.46	20.50	0.701+j3.893	0.315+j2.751
LERMA	LRA-230	230.0	3.70	4.27	8.046+j34.936	1.146+j22.054	5.05	5.77	4.830+j28.519	0.887+j18.420
LERMA	LRA-115	115.0	7.06	8.99	2.259+j9.129	0.152+j3.456	10.09	12.99	1.318+j7.117	0.112+j2.496
MAHAHUAL	MHH-115	115.0	1.20	0.72	17.869+j52.503	50.682+j157.062	1.43	0.82	15.716+j48.748	50.632+j156.413
MALECON CANCÚN	MLN-115	115.0	11.77	12.88	1.564+j5.417	0.870+j4.097	17.32	18.42	0.856+j4.130	0.646+j3.388
MANIOBRAS CHUNHUHUB	MAN-115	115.0	4.07	1.93	3.376+j15.949	18.762+j68.221	5.07	2.20	2.391+j14.219	18.784+j68.075
MANIOBRAS EÓLICA PROGRESO	MEP-115	115.0	6.18	6.93	1.738+j10.610	0.925+j9.160	7.03	7.82	1.599+j10.260	0.904+j9.020



Subestación Eléctrica	Acrónimo	Tensión (kV)	Corriente de cortocircuito (kA) e impedancias de Thévenin secuencias positiva y cero (Ω)							
			NCC mínimo 2026				NCC máximo 2026			
			3F	1F	ZTH(+)	ZTH(0)	3F	1F	ZTH(+)	ZTH(0)
MAXCANU	MAX-115	115.0	5.06	3.31	3.733+j12.575	12.085+j31.911	5.78	3.70	3.515+j12.139	12.080+j31.838
MAYA KOBÁ	MYK-115	115.0	8.00	7.13	1.820+j8.092	2.509+j11.033	9.90	8.42	1.296+j7.266	2.507+j10.978
MÉRIDA II	MDA-115	115.0	20.61	27.04	0.570+j3.171	0.134+j1.215	24.93	32.10	0.469+j2.892	0.128+j1.192
MÉRIDA IV	MDC-115	115.0	20.37	27.35	0.581+j3.208	0.049+j1.079	24.53	32.33	0.491+j2.937	0.049+j1.067
MÉRIDA ORIENTE	MDN-115	115.0	13.88	11.56	1.071+j4.660	2.063+j7.589	16.54	13.27	0.933+j4.317	2.061+j7.536
MÉRIDA POTENCIA	MDP-230	230.0	11.68	14.73	1.556+j11.265	0.232+j4.848	16.04	19.52	0.948+j9.058	0.205+j4.550
METROPOLITANA	MTO-115	115.0	14.80	13.15	0.957+j4.382	1.698+j6.201	17.52	15.06	0.843+j4.083	1.696+j6.180
MOON PALACE	MPA-115	115.0	7.53	5.97	1.918+j8.611	4.029+j15.199	9.52	7.09	1.323+j7.558	4.015+j15.051
MUNA	MNA-115	115.0	5.94	4.64	2.628+j10.856	7.396+j19.411	6.80	5.21	2.441+j10.455	7.388+j19.328
NACHI COCOM	NCM-230	230.0	9.72	7.88	2.139+j13.498	5.176+j23.301	12.14	9.25	1.602+j11.927	5.178+j23.209
NACHI COCOM	NCM-115	115.0	20.11	19.44	0.664+j3.235	1.035+j3.706	24.81	22.94	0.527+j2.897	1.034+j3.675
NICHUPTE	NCT-115	115.0	11.22	13.52	1.716+j5.661	0.525+j2.864	15.79	18.27	1.066+j4.500	0.506+j2.689
NICTE HA	NIH-115	115.0	9.94	11.11	1.826+j6.428	0.977+j4.451	13.94	14.72	1.112+j5.120	0.961+j4.295
NIZUC	NIZ-230	230.0	6.89	7.39	4.508+j18.748	1.892+j15.235	9.53	9.83	2.449+j15.139	1.616+j13.789
NIZUC	NIZ-115	115.0	12.53	17.30	1.423+j5.106	0.100+j0.910	19.33	26.35	0.701+j3.713	0.084+j0.748
NORTE	NTE-230	230.0	10.72	11.46	1.934+j12.239	1.512+j10.538	13.80	14.01	1.378+j10.498	1.502+j10.433
NORTE	NTE-115	115.0	18.32	21.58	0.705+j3.556	0.272+j2.236	22.45	25.77	0.564+j3.204	0.262+j2.184
OXTANKAH	OXT-115	115.0	3.06	2.76	6.839+j20.575	9.024+j27.444	4.51	3.62	4.075+j15.691	8.966+j26.485
PESCADORES	PSD-115	115.0	7.82	6.89	2.038+j8.243	2.737+j11.573	9.60	8.09	1.544+j7.447	2.742+j11.555
PHOTOEMERIS SUSTENTABLE	PHS-115	115.0	2.68	2.86	6.547+j23.929	1.880+j20.236	3.23	3.35	5.413+j21.940	1.883+j20.230
PLAYA CAR	PLY-115	115.0	10.35	9.15	1.652+j6.202	1.732+j8.753	13.44	11.07	1.107+j5.320	1.738+j8.750
PLAYA DEL CARMEN	PCN-230	230.0	5.80	6.36	5.029+j22.343	1.989+j16.699	7.49	7.87	3.132+j19.248	2.021+j16.547
PLAYA DEL CARMEN	PCN-115	115.0	10.85	13.02	1.564+j5.918	0.277+j3.058	14.22	16.43	1.020+j5.035	0.283+j3.055
PLAYA MUJERES	PMU-115	115.0	8.64	7.84	2.101+j7.390	2.256+j9.779	11.23	9.57	1.495+j6.332	2.245+j9.623
POKTAPOK	PKP-115	115.0	11.66	14.12	1.662+j5.447	0.484+j2.677	16.75	19.46	0.989+j4.246	0.461+j2.492
POLYUC	PYU-230	230.0	2.84	1.84	10.802+j45.470	40.577+j116.841	3.68	2.18	7.130+j39.090	40.358+j115.073
POLYUC	PYU-115	115.0	3.97	1.93	3.516+j16.332	18.412+j67.638	4.93	2.20	2.533+j14.607	18.434+j67.498
PONIENTE	PTE-115	115.0	16.47	16.27	0.784+j3.955	0.855+j4.333	19.90	18.95	0.648+j3.612	0.855+j4.317
POPOLNAH	PPH-115	115.0	2.88	2.00	5.710+j22.366	13.193+j52.181	3.26	2.23	5.427+j21.715	13.189+j52.100
PUERTO JUÁREZ	PJU-115	115.0	12.91	14.96	1.423+j4.943	0.487+j2.992	18.56	20.48	0.821+j3.847	0.458+j2.784
PUERTO MORELOS	PMO-115	115.0	9.65	8.72	1.422+j6.732	1.821+j8.886	12.22	10.56	0.931+j5.903	1.788+j8.613
PUERTO PROGRESO	PPO-115	115.0	5.00	4.89	2.465+j13.036	3.221+j15.864	5.66	5.47	2.325+j12.687	3.201+j15.725
PUERTO REAL	PTR-230	230.0	2.73	3.66	9.243+j47.727	0.351+j11.760	3.78	4.99	5.413+j38.313	0.393+j11.629
PUERTO REAL	PTR-115	115.0	4.50	6.37	2.672+j14.524	0.038+j1.808	6.34	8.98	1.504+j11.424	0.049+j1.774
PUNTA SAM	PSA-115	115.0	10.59	9.43	1.646+j6.049	1.838+j8.386	14.35	11.77	1.046+j4.982	1.828+j8.231
RIVIERA MAYA	RMY-400	400.0	4.96	5.92	10.811+j45.247	2.036+j23.960	6.58	7.59	6.407+j38.094	1.929+j22.929
RIVIERA MAYA	RMY-230	230.0	7.07	8.68	4.200+j18.293	0.504+j8.401	9.43	11.25	2.428+j15.296	0.466+j7.948
RIVIERA MAYA	RMY-115	115.0	12.07	13.11	1.198+j5.367	0.359+j4.192	15.73	16.64	0.734+j4.584	0.319+j3.867
SABANCUY	SBY-115	115.0	2.59	1.67	6.291+j24.858	17.334+j65.677	3.00	1.88	5.728+j23.665	17.327+j65.530
SAMULA	SAM-115	115.0	5.43	5.19	3.179+j11.803	3.549+j13.559	7.22	6.59	2.239+j9.866	3.508+j12.637



Subestación Eléctrica	Acrónimo	Tensión (kV)	Corriente de cortocircuito (kA) e impedancias de Thévenin secuencias positiva y cero (Ω)							
			NCC mínimo 2026				NCC máximo 2026			
			3F	1F	ZTH(+)	ZTH(0)	3F	1F	ZTH(+)	ZTH(0)
SAMULA II	SAD-115	115.0	4.98	4.80	3.413+j12.886	3.145+j14.558	6.50	6.02	2.480+j10.963	3.105+j13.628
SAN IGNACIO	IGN-115	115.0	6.91	7.18	1.415+j9.501	1.483+j9.986	7.91	8.11	1.274+j9.147	1.469+j9.870
SAN PEDRO	SAE-115	115.0	2.16	1.37	5.177+j30.282	26.619+j79.857	2.58	1.57	4.583+j27.912	26.618+j79.010
SANTA LUCIA	SLC-230	230.0	4.82	4.98	4.805+j27.121	4.380+j24.643	8.92	10.03	1.634+j16.289	0.860+j10.969
SANTO DOMINGO	SDM-115	115.0	3.78	3.94	3.616+j17.212	2.649+j15.399	4.20	4.39	3.583+j17.009	2.596+j15.136
SIHOCHAC	SHC-115	115.0	2.92	1.90	5.978+j21.943	13.762+j57.787	3.47	2.17	5.209+j20.367	13.733+j57.259
SUBESTACIÓN ELÉCTRICA DE TRACCIÓN DEL TREN MAYA 1	SET1-115	115.0	3.30	3.41	5.613+j19.293	1.549+j18.607	3.76	3.86	5.372+j18.642	1.501+j18.260
SUBESTACIÓN ELÉCTRICA DE TRACCIÓN DEL TREN MAYA 2	SET2-115	115.0	5.76	5.08	2.178+j11.322	4.423+j15.648	7.97	6.51	1.598+j9.027	4.376+j14.750
SUBESTACIÓN ELÉCTRICA DE TRACCIÓN DEL TREN MAYA 3	SET3-115	115.0	2.55	1.63	6.667+j25.162	21.940+j66.353	2.97	1.85	6.107+j23.798	21.920+j66.084
SUBESTACIÓN ELÉCTRICA DE TRACCIÓN DEL TREN MAYA 4	SET4-115	115.0	7.55	6.02	1.922+j8.577	3.987+j14.993	9.58	7.16	1.320+j7.506	3.973+j14.849
SUBESTACIÓN ELÉCTRICA DE TRACCIÓN DEL TREN MAYA 5	SET5-115	115.0	5.64	4.20	2.927+j11.403	5.730+j23.127	6.59	4.77	2.542+j10.792	5.726+j22.998
SUBESTACIÓN ELÉCTRICA DE TRACCIÓN DEL TREN MAYA 6	SET6-115	115.0	2.16	1.09	6.241+j30.098	29.617+j116.915	2.53	1.23	5.236+j28.377	29.639+j116.767
SUBESTACIÓN ELÉCTRICA DE TRACCIÓN DEL TREN MAYA 7	SET7-115	115.0	2.46	2.03	8.492+j25.605	12.671+j42.186	3.23	2.47	6.303+j21.691	12.624+j41.510
SUCILA	SUC-115	115.0	3.81	3.19	3.906+j16.989	8.277+j26.990	4.30	3.56	3.810+j16.553	8.265+j26.867
SUR	SUR-115	115.0	17.76	17.56	0.786+j3.655	1.165+j3.923	21.48	20.49	0.660+j3.336	1.164+j3.890
TEKAX II	TKD-115	115.0	3.66	2.48	4.696+j17.539	9.111+j43.283	4.22	2.78	4.292+j16.783	9.106+j43.234
TEMAX II	TXS-115	115.0	3.93	3.58	3.583+j16.512	5.888+j21.177	4.36	3.97	3.559+j16.379	5.875+j21.062
TICUL I	TIU-115	115.0	8.92	8.50	1.623+j7.261	2.121+j8.350	10.39	9.72	1.450+j6.877	2.108+j8.245
TICUL II	TIC-400	400.0	7.93	8.19	4.219+j28.802	3.049+j26.271	9.87	9.88	2.640+j25.606	2.845+j25.493
TICUL II	TIC-230	230.0	12.26	14.03	1.653+j10.702	0.663+j6.854	15.49	17.33	1.054+j9.369	0.592+j6.467
TICUL II	TIC-115	115.0	12.18	14.13	0.719+j5.403	0.134+j3.257	14.47	16.58	0.546+j5.018	0.121+j3.152
TIXMEHUAC	TXM-115	115.0	2.21	1.40	6.671+j29.331	20.378+j80.054	2.50	1.55	6.267+j28.575	20.373+j80.005
TIZIMIN	TZM-115	115.0	4.95	4.46	2.766+j13.137	4.683+j18.097	5.71	5.05	2.623+j12.524	4.680+j17.979
TULUM	TUM-115	115.0	3.29	2.98	6.283+j19.146	5.227+j26.251	3.79	3.38	5.851+j18.378	5.140+j25.858
UCU	UCU-115	115.0	9.93	7.97	1.258+j6.569	2.884+j11.508	11.54	9.01	1.120+j6.228	2.883+j11.492
UMAN	UMA-115	115.0	7.51	4.50	2.524+j8.469	8.635+j25.300	8.61	5.03	2.378+j8.140	8.635+j25.270
VALLADOLID	VAD-230	230.0	9.58	11.70	1.424+j13.783	0.183+j6.399	13.47	16.27	0.678+j10.824	0.123+j5.208
VALLADOLID	VAD-115	115.0	8.47	10.71	1.077+j7.763	0.108+j3.011	14.04	17.76	0.449+j5.181	0.044+j1.931
VALLADOLID DISTRIBUCIÓN	VDD-115	115.0	7.17	6.07	1.554+j9.132	6.272+j13.280	10.69	8.05	0.975+j6.760	6.272+j12.439
XCALACOCO	XLC-115	115.0	8.20	7.06	1.653+j7.927	2.463+j11.726	10.10	8.34	1.162+j7.138	2.444+j11.534
XCUNYA	XCN-115	115.0	9.82	7.59	1.090+j6.672	3.089+j13.115	11.40	8.57	0.952+j6.334	3.083+j13.065
XPUJIL	XPU-115	115.0	1.71	1.31	6.557+j38.333	18.704+j72.074	2.03	1.50	5.075+j35.615	18.682+j71.690
XUL HA	XUL-230	230.0	2.28	2.84	16.181+j55.869	1.071+j24.540	3.56	4.23	7.351+j40.406	0.771+j21.145
XUL HA	XUL-115	115.0	4.12	5.52	4.627+j15.449	0.132+j3.963	6.88	9.00	1.976+j10.427	0.076+j3.011
YAXCHE	YXE-115	115.0	11.33	11.16	1.415+j5.684	1.205+j6.005	15.21	14.03	0.892+j4.719	1.204+j5.877
YAXKIN	YXN-115	115.0	9.54	9.87	1.777+j6.729	1.546+j6.058	12.10	11.96	1.265+j5.902	1.550+j6.048
ZAC NICTÉ	ZNE-115	115.0	8.94	8.23	1.712+j7.228	1.396+j9.249	11.27	9.83	1.175+j6.372	1.401+j9.219
ZAMA	ZMA-115	115.0	3.54	3.01	5.698+j17.883	6.865+j27.904	4.07	3.41	5.280+j17.171	6.807+j27.595