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April 27, 2022

Mr. Steve Kahl
Director of Administration/Executive Secretary
North Dakota Public Service Commission
600 East Boulevard, Dept. 408
Bismarck, ND 58505-0480

**Re: In the Matter of Otter Tail Power Company's Reliability Report
Case No. PU-22-
Annual Report**

Dear Mr. Kahl:

Otter Tail Power Company (Otter Tail) submits this Annual Report pursuant to ND Admin. Code § 69-09-02-06, Subd. 5 and 6. This Annual Report presents our North Dakota reliability statistics for the year 2021 and includes a detailed breakdown of each major event day.

The institute of electrical and electronics engineers (IEEE) standard 1366 indices system average interruption frequency index (SAIFI), system average interruption duration index (SAIDI), customer average interruption duration index (CAIDI), and momentary average interruption duration index (MAIFI), by state, customer service center, and feeder are included in the attached Excel spreadsheet (Attachment 1).

Otter Tail Power Company's Reliability Monitoring Process

Otter Tail Power Company utilizes an Interruption Monitoring System (IMS) which deploys Itron automated meter infrastructure (AMI) meters in a "bellwether" configuration, i.e. one single phase meter per phase per feeder-or-one three phase meter per feeder after the feeder breaker, thus, Otter Tail currently monitors reliability at the feeder level.

Regarding the 2021 interruption and IEEE indices report, Otter Tail will be upgrading and improving reliability monitoring processes in the future. In late 2022, Otter Tail plans to implement an outage management system (OMS). Also, Otter Tail plans to implement automated meter infrastructure (AMI) meters throughout the system with completion planned in 2024. With these reliability monitoring improvements, we will see increases to our future number of interruptions recorded and the IEEE indices reported. As we move reliability monitoring downstream below the feeder breaker to the customer level, increasing monitoring granularity, our future indices and interruption counts recorded will increase. To state another way, the change in future indices will be a result of increased granularity in monitoring and reporting and not a sign of decreasing reliability observed by customers.

Otter Tail Power Company’s Interruption Normalization Process

As discussed above, Otter Tail has been utilizing an Interruption Monitoring System (IMS) provided by Itron with system installs starting in 2016. The Itron IMS incorporates the IEEE 2.5 beta method process to normalize reliability data. Otter Tail’s 2.5 Beta process is based on the following assumptions:

- Itron calculates annual system T_{med} (SAIDI/Day threshold) based on all historic data available, 2016 - 2020.
- The system T_{med} is utilized to run our indices for North Dakota and individual North Dakota Customer Service Centers (CSCs).

For 2022 data, the 2.5 beta parameter assumptions are as follows:

2.5 Beta Parameters:

Alpha	Beta	Major Event Day
-1.93	1.57	7.43

After applying 2.5 Beta Parameters for 2021 across Otter Tail’s system, two days met the criteria to be considered an MED, 10/9/21 and 11/29/21.

- 10/09/21 – A downed 115KV structure (lightning) north of Fergus Falls caused 4–5 hour interruption durations to much of Fergus Falls. Ogema and Ashby also experienced long duration interruptions due to weather. The SAIDI/day accumulation was 8.09 minutes.
- 11/29/21 – The substation transformer serving Harvey ND failed and the city experienced an 18 hour and 51-minute interruption resulting in 9.07 minutes of SAIDI/day accumulation.

Below is a table showing 2021 North Dakota Normalized results for the state and our four Customer Service Centers along with Otter Tail’s Key Performance Indicator Goals for our entire service territory. For a complete view of all our feeders, see the Attachment 1 spreadsheet.

2.5 Normalized Results:

2021 State/Customer Service Center	SAIFI	SAIDI (minutes)	CAIDI (minutes)	MAIFI	Sustained Customer Minutes
North Dakota	1.554571	97.85	62.94	5.613739	6471207
Devils Lake	2.976045	174.97	58.79	7.382834	1979481
Jamestown	1.411473	105.89	75.02	7.294664	1984453
Rugby	1.128549	47.64	42.21	3.731581	770064
Wahpeton	0.98437	69.26	70.36	3.842848	1134434
OTP System KPI Goals	1.3	95	69	5.5	NA

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An electronic copy of this filing is being sent to the North Dakota Public Service Commission at ndpsc@nd.gov.

If you have any questions regarding this filing, please contact me at 218-739-8552 or at rjensen@otpc.com.

Sincerely,

/s/ ROD JENSEN
Rod Jensen
Senior Reliability Engineer

tlk
Enclosures

2.5 Normalized Results:

2021 State/Customer Service Center	SAIFI	SAIDI (minutes)	CAIDI (minutes)	MAIFI	Total Sustained Customer Minutes
ND	1.554571	97.85	62.94	5.613739	6471207
Devils_Lake	2.976045	174.97	58.79	7.382834	1979481
Jamestown	1.411473	105.89	75.02	7.294664	1984453
Rugby	1.128549	47.64	42.21	3.731581	770064
Wahpeton	0.98437	69.26	70.36	3.842848	1134434
2021 OTP System KPI Goals	1.3	95	69	5.5	NA

2.5 Normalized Results:

2021 ND Feeders	SAIFI	SAIDI (minutes)	CAIDI (minutes)	MAIFI
Abercrombie_MainFeeder	1	5.2	5.2	9.004348
Absaraka_MainFeeder	1.173913	95.81	81.61	1.152174
Adams_Milton_AdamsFeeder	9	362.33	40.26	13.44654
Adams_Milton_MiltonFeeder	13.022727	1074.49	82.51	15.125
Alice_MainFeeder	1.921569	165.17	85.95	1.431373
Amenia_MainFeeder	4	413.65	103.41	5
Anamoose_MainFeeder	3	165.03	55.01	9
Anamoose_Rural_MainFeeder	5	397.23	79.45	8
Aneta_MainFeeder	0.070588	6.49	91.96	0.247059
Angus_Roan_MainFeeder	2	105.88	52.94	7.580645
Antler_Kuroki_MainFeeder	1	97.27	97.27	1
Ardoch_Beet_Dump_MainFeeder	1	227.17	227.17	9
Ardoch_Beet_Dump_MainFeeder	1	227.17	227.17	9
Ardoch_MainFeeder	0	0	0	9.0625
Ardoch_MainFeeder	0	0	0	9.0625
Argyle_NorthFeeder	1	49.67	49.67	3
Argyle_SouthFeeder	1	49.67	49.67	3
Ayr_MainFeeder_Ayr_and_Rural	1	97.54	97.54	0.981132
Badger_MainFeeder	1.161417	282.29	243.06	3.484252
Balfour_BalfourFeeder	0	0	0	3.035714
Balfour_Butte_and_KiefFeeder	0.007092	1.15	161.93	3.262411
Barney_MainFeeder	1	13.46	13.46	4.147541
Bartlett_MainFeeder	3	780.53	260.18	7
Barton_MainFeeder	0.043478	2.21	50.92	0.217391
Belcourt_BIAFeeder	1	31.07	31.07	7.00637
Belcourt_MainFeeder	3	154.18	51.39	10.0073
Belcourt_West_OjibwaFeeder	3	154.12	51.37	10
Belcourt_West_Skydancer_WestFeeder	1	31.18	31.18	6.25
Beltrami_and_LockhartFeeder	0	0	0	2
Beltrami_Junction_Beltrami_Rural_EastF	0	0	0	0.363636
Beltrami_Junction_Beltrami_Rural_Nort	0	0	0	1
Benedict_MainFeeder	0	0	0	1.365079
Bergen_MainFeeder	0	0	0	2.052632
Berlin_MainFeeder	2	106.98	53.49	10.06897
Berwick_MainFeeder	1	91.22	91.22	0
Binford_Jesse_MainFeeder	1.036145	48.89	47.18	17.80121
Bordulac_MainBordulac_and_Melville	3	86.07	28.69	8
Bottineau_Downtown_EastFeeder	2	25.53	12.77	8.010417
Bottineau_Downtown_WestFeeder	0	0	0	6
Bottineau_South_SouthwestFeeder	0	0	0	1
Bowdon_MainFeeder	2	36.43	18.22	7.007194
Brinsmade_MainFeeder	4.208333	244.79	58.17	8.791667
Brinsmade_Rural_MainFeeder	5.941176	367.51	61.86	11.23529
Brooks_MainFeeder	0	0	0	1
Buffalo_MainFeeder	1	49.85	49.85	4
Calvin_Jct_MainFeeder	12	706.01	58.83	22.01539
Carbury_MainFeeder	1	8.17	8.17	9
Carrington_North_EastFeeder	1	18.42	18.42	5.018518
Carrington_North_WestFeeder	0.001681	0.04	23.07	0
Carrington_South_EastFeeder	0	0	0	9
Carrington_South_WestFeeder	0	0	0	10.14474
Casselton_115_RuralFeeder	1	5.25	5.25	2
Casselton_NEFeeder	1.355172	58.34	43.05	7.013793

Casselton_NWFeeder	1	14.2	14.2	8
Casselton_RuralFeeder	0.045455	1.99	43.88	5.863636
Cathay_MainFeeder	2	129.48	64.74	4.269231
Cathay_Rural_MainFeeder	1	36.88	36.88	4
Cayuga_MainFeeder	0.210526	15.48	73.54	0.447368
Christine_MainFeeder	1.666667	264.72	158.83	4.166667
Churchs_Ferry_MainFeeder	4.571429	215.86	47.22	9.285714
Cleveland_MainFeeder	5	250.39	50.08	16.05319
Climax_MainFeeder	0	0	0	7.39
Cogswell_MainFeeder	1.041096	106.37	102.17	0.041096
Colgate_ColgateFeeder	1	97.3	97.3	1
Cooperstown_NorthFeeder	2	18.2	9.1	19.0033
Cooperstown_SouthFeeder	1.482375	16.7	11.27	13.52134
Courtenay_Wimbledon_MainFeeder	1.75	215.84	123.34	7.535714
Courtenay_Wimbledon_WimbledonFeeder	6.009852	785.56	130.71	7.014778
Crary_MainFeeder	3	120.35	40.12	8
Crookston_Barrette_St_NorthFeeder	0.677358	41.04	60.59	4.681132
Crookston_Barrette_St_SouthFeeder	0	0	0	2
Crookston_Crystal_Sugar_MainFeeder	0	0	0	1
Crookston_Enbridge_MainFeeder	0	0	0	2
Crookston_Parkview_U_of_M_Feeder	0	0	0	1
Crookston_Parkview_West_East_and_Sc	1	14.95	14.95	2.000807
Crookston_South_Main_American_Cryst	0	0	0	1
Crookston_South_Main_CrescentFeeder	0	0	0	4
Crookston_South_Main_DahlgrensFeeder	0	0	0	5.007067
Crookston_South_Main_HospitalFeeder	0	0	0	1
Crookston_South_Main_Industrial_Park	0	0	0	2
Crystal_MainFeeder	1	260.02	260.02	7.025862
Davenport_MainFeeder	1	79.94	79.94	5
Dazey_Farms_MainFeeder	2	47.46	23.73	15.14286
Dazey_MainFeeder	1.4	32.93	23.52	11.22105
Deering_MainFeeder	1.470588	140.82	95.76	2.22549
Denhoff_MainFeeder	3.157895	123.39	39.07	3.736842
Devils_Lake_Downtown_West_and_Nor	0	0	0	5.00207
Devils_Lake_Northeast_NorthFeeder	1	24.5	24.5	0
Devils_Lake_Northeast_SouthFeeder	1	24.52	24.52	5
Devils_Lake_Northwest_CollegeFeeder	1	15.52	15.52	1
Devils_Lake_Northwest_SouthFeeder	1	15.53	15.53	1
Devils_Lake_Southeast_EastFeeder	1	24.48	24.48	0
Devils_Lake_Southeast_WestFeeder	1	24.52	24.52	0
Devils_Lake_Southwest_East_and_South	0.007673	0.07	8.86	0.033248
Donaldson_MainFeeder	1.0625	156.25	147.06	2
Douglas_MainFeeder	2	63.15	31.57	12.02985
Doyon_MainFeeder	2	39.53	19.77	9
Drake_MainFeeder	3	212.37	70.79	9
Drayton_NorthFeeder	1	12.43	12.43	6
Drayton_NorthFeeder	1	12.43	12.43	6
Drayton_SouthFeeder	1	12.43	12.43	5
Drayton_SouthFeeder	1	12.43	12.43	5
Dresden_MainFeeder	10	1579.14	157.91	16.03371
Dunning_MainFeeder	1	302.58	302.58	6
Dunseith_MainFeeder	0	0	0	3.002315
Dwight_MainFeeder	3	175.26	58.42	7.017857
Eckelson_MainFeeder	2	105.72	52.86	5
Edgeley_NorthwestFeeder	0.016	0.13	8.03	0.008
Edgeley_SoutheastFeeder	0.027972	0.23	8.07	0.013986
Edinburg_MainFeeder	0	0	0	7.012346
Edmore_MainFeeder	9.011976	512.96	56.92	17.05389
Eldred_MainFeeder	0	0	0	7.052631
Eldridge_MainFeeder	3	86.14	28.71	15.06522
Emrick_MainFeeder	0.8	30.09	37.62	2.4
Emrick_Rural_MainFeeder	1.142857	51.4	44.97	3
Enderlin_115kv_EastFeeder	2.330579	122.46	52.55	5.975206
Enderlin_115kv_SheldonLine	2	118.57	59.28	11
Enderlin_115kv_WestFeeder	2.998574	115.41	38.49	12.00428

Erie_MainFeeder	2.108696	434.95	206.27	2.5
Esmond_MainFeeder	0	0	0	5
Fairdale_MainFeeder	11.130435	710.22	63.81	10.95652
Fairmount_City_and_SonoraFeeder	1.014388	34.56	34.07	5.05036
Fairmount_WhiteRock_and_RuralFeeder	1	32.6	32.6	8
Falkirk_MainFeeder	2	84.88	42.44	0.032258
Fanny_Rural_MainFeeder	2	100.35	50.17	6.055555
Fessenden_Hamberg_EastFeeder	1	52.25	52.25	5.004149
Fessenden_Hamberg_WestFeeder	2	195.13	97.57	8.004717
Fessenden_Rural_MainFeeder	3	103.75	34.58	3
Fingal_Rural_MainFeeder	6	645.03	107.51	22.01163
Finley_EastFeeder	3	54.92	18.31	9.012345
Finley_WestFeeder	4	130.9	32.72	10.04237
Fisher_MainFeeder	1	52.65	52.65	10.01271
Fordville_FordvilleFeeder	1	42.98	42.98	9
Fordville_Lankin_and_Pisek	0	0	0	9.005882
Forest_River_MainFeeder	0	0	0	9
Forest_River_MainFeeder	0	0	0	9
Forman_MainFeeder	0	0	0	5
Fort_Totten_NorthFeeder	1	7.5	7.5	7.666667
Fort_Totten_Rural_MainFeeder	1	76.85	76.85	6.666667
Fort_Totten_WestFeeder	1	7.58	7.58	6.128205
Gackle_MainFeeder	5.714286	249.91	43.73	52.39721
Gackle_Rural_EastFeeder	8	439.86	54.98	34.66667
Gackle_Rural_MainFeeder	7.1	381.46	53.73	32.6
Galchutt_MainFeeder	1	5.2	5.2	8
Galesburg_Clifford_MainFeeder	1.028736	99.95	97.16	1.729885
Gardena_MainFeeder	3	71.63	23.88	2
Garrison_CentralFeeder	1.356796	78.29	57.71	1.684466
Garrison_EastFeeder	2	82.98	41.49	1
Garrison_Stone_Inn_MainFeeder	2	690.5	345.25	1
Garrison_WestFeeder	2	83.07	41.53	3
Garske_MainFeeder	0.2	49.14	245.68	0.4
Geneseo_MainFeeder	1.393939	79.58	57.09	7.969697
Gilby_Orr_Jct_MainFeeder	0.465839	46.23	99.25	6.26087
Gilby_Orr_Jct_MainFeeder	0.465839	46.23	99.25	6.26087
Glenburn_MainFeeder	0	0	0	16.84211
Goodrich_MainFeeder	3	77.43	25.81	4.016
Grand_Rapids_Jct_MainFeeder	10	1262.34	126.23	32.4263
Granville_MainFeeder	1.319372	92.86	70.38	0.015707
GreatBend_Mantador_GreatBendFeeder	0.064516	8.02	124.23	2.193548
GreatBend_Mantador_GreatBendFeeder	0.064516	8.02	124.23	2.193548
GreatBend_Mantador_MainFeeder	0.005102	0.25	48.58	1.454082
Greenbush_EastFeeder	2	186.35	93.17	7.015544
Greenbush_WestFeeder	1	86.44	86.44	7.043668
Gwinner_MainFeeder	2.5	219.11	87.64	2.5
Hallock_Northwest_NorthFeeder	0	0	0	2.002174
Hallock_Northwest_SouthFeeder	0	0	0	2
Halma_MainFeeder	1.425532	93.83	65.82	4.617021
Hamar_MainFeeder	4	234.32	58.58	14.66667
Hamberg_MainFeeder	3	310.52	103.51	5.041667
Hamilton_Bathgate_BathgateFeeder	0.111111	15.24	137.19	1
Hampden_Jct_MainFeeder	2.615385	737.81	282.1	6.615385
Hankinson_NorthFeeder	0.00939	0.97	103.69	4.023474
Hankinson_SouthFeeder	0	0	0	5
HankinsonCasino_MainFeeder	0	0	0	1
Hannaford_MainFeeder	3.119658	202.3	64.85	15.46154
Harold_MainFeeder	0	0	0	3
Harvey_North_EastFeeder	1	6.12	6.12	0
Harvey_North_SouthFeeder	0	0	0	1.016129
Harvey_North_WestFeeder	1	6.15	6.15	2
Havana_MainFeeder	1	73.66	73.66	2.652174
Heaton_MainFeeder	3	70.77	23.59	6
Hensel_MainFeeder	0	0	0	7.384615
Holt_Junction_MainFeeder	2.914063	457.41	156.97	6.597656

Hoople_MainFeeder	2	124.7	62.35	7.005405
Hoople_MainFeeder	2	124.7	62.35	7.005405
HovingJct_MainFeeder	2	147.18	73.59	2
Humboldt_MainFeeder	0	0	0	3
Hurdsfield_MainFeeder	2.988764	41.51	13.89	4.033708
Inkster_MainFeeder	0	0	0	9.086957
Inkster_MainFeeder	0	0	0	9.086957
Jamestown_Downtown_NortheastFeeder	1.004692	280.81	279.5	6.028151
Jamestown_Downtown_NorthwestFeeder	1	279.5	279.5	6
Jamestown_NE_Switching_Station_West	0	0	0	13.00071
Jamestown_North_NorthFeeder	2	195.33	97.67	4
Jamestown_North_SouthFeeder	0.345098	35.08	101.65	0
Jamestown_Peaking_Plant_NorthFeeder	2	80.47	40.23	1
Jamestown_Peaking_Plant_SouthFeeder	1.000896	113.03	112.93	0.000896
Jamestown_Radio_Station_MainFeeder	1.596491	18.2	11.4	8.561403
Jamestown_Southwest_EastFeeder	1	25.48	25.48	3
Jamestown_Southwest_NorthFeeder	0	0	0	3
Jamestown_Southwest_SouthFeeder	1	86.25	86.25	1
Jud_MainFeeder	3.564103	165.89	46.54	20
Karlsruhe_MainFeeder	1	60.2	60.2	3
Karlstad_NorthFeeder	2.117924	152.96	72.22	4.45283
Karlstad_SouthFeeder	1.031532	118.5	114.88	5.126126
Kennedy_MainFeeder	0	0	0	3.007042
Kensal_MainFeeder	2	246.6	123.3	8
Kindred_MainFeeder	4.612335	393.67	85.35	6.008811
Kloten_MainFeeder	3	222.2	74.07	11.12903
Knox_KnoxFeeder	0.068182	2.16	31.63	1.363636
Knox_WolfordFeeder	2.069767	104.09	50.29	6.418605
Kramer_Upham_KramerFeeder	3	85.22	28.41	2
Kramer_Upham_UphamFeeder	3.013889	85.76	28.46	2.659722
Lake_Bronson_MainFeeder	2	139.18	69.59	4.005465
Lakewood_MainFeeder	7.417476	427.48	57.63	2.004854
LaMoire_NorthFeeder	4	204.12	51.03	10.00232
LaMoire_SouthFeeder	2	107.02	53.51	9
Lancaster_MainFeeder	1	91.33	91.33	4
Landa_MainFeeder	1.96875	127.41	64.72	5.25
Langdon_Downtown_EastFeeder	6	302.03	50.34	6.003345
Langdon_Downtown_WestFeeder	6	348.75	58.13	5.003788
Langdon_East_Rural_MainFeeder	4	277.73	69.43	5
Langdon_North_EastFeeder	4.673913	274.61	58.75	4.581522
Langdon_North_HighSchoolFeeder	5	338.05	67.61	4
Langdon_North_WestFeeder	6.698745	384.24	57.36	5.682008
Lansford_MainFeeder	0	0	0	12.09677
Lawton_Jct_MainFeeder	9.960784	511.22	51.32	12.05882
Leeds_MainFeeder	0.996815	32.36	32.46	4.015924
Lidgerwood_EastFeeder	2	71.93	35.97	13
Lidgerwood_WestFeeder	1	48.57	48.57	9
Lisbon_EastFeeder	1	73.85	73.85	4
Lisbon_NorthFeeder	0.001873	0.14	73.85	0.005618
Lisbon_SouthFeeder	1	73.82	73.82	4
Lisbon_WestFeeder	1	73.92	73.92	2
Litchville_MainFeeder	0.219858	17.24	78.41	0.879433
Makoti_MainFeeder	0	0	0	10.02985
Manfred_MainFeeder	1.466667	81.99	55.9	1.466667
Mapes_MainFeeder	1.555556	390.98	251.35	5.888889
Mapes_Rural_MainFeeder	1	18.27	18.27	7
Mapleton_MainFeeder	0	0	0	0.025052
Mapleton_South_and_West_RuralFeeder	0	0	0	2
Martin_MainFeeder	3.097222	178.56	57.65	8.055555
Max_MainFeeder	3	129.58	43.19	12.00985
Maxbass_MainFeeder	0	0	0	5.793103
McCanna_MainFeeder	1.038462	31.66	30.48	13.07692
McClusky_MainFeeder	3.996795	50.18	12.56	4.009615
McVille_EastArea	2.693799	154.44	57.33	13.10078
McVille_WestArea	3	180.68	60.23	10.02685

Medina_MainFeeder	5.663083	327.71	57.87	26.21864
Mercer_MainFeeder	1.122449	91.1	81.16	1.877551
Michigan_MainFeeder	1	19.69	19.69	14
Millerton_Montpelier_MainFeeder	1.369565	15.74	11.5	11.01087
Milnor_MainFeeder	4	300.03	75.01	3
Minnewaukan_MainFeeder	6.996154	376.48	53.81	12.01154
Minto_MainFeeder	1	140.52	140.52	12
Minto_MainFeeder	1	140.52	140.52	12
Mooreton_MainFeeder	0	0	0	3.686813
Mooreton_RuralFeeder	0	0	0	1.481481
Mountain_MainFeeder	1	76.48	76.48	0
Munich_MainFeeder	3.195652	974.69	305	10.8913
Neche_MainFeeder	5	498.21	99.64	2.010989
Neche_MainFeeder	5	498.21	99.64	2.010989
Nekoma_MainFeeder	10	424.55	42.46	11.17647
New_Effington_MainFeeder	0	0	0	3.395122
New_Effington_Rural_MainFeeder	1	29.95	29.95	1
New_Folden_MainFeeder	1	114.88	114.88	4
New_Rockford_North_EastFeeder	1	82.17	82.17	7.005465
New_Rockford_North_WestFeeder	1	82.18	82.18	8.007772
New_Rockford_South_NorthFeeder	1.718121	103.19	60.06	7.064877
New_Rockford_South_SouthFeeder	0.763889	62.78	82.18	5.305555
Newark_Brampton_MainFeeder	1	73.6	73.6	3.125
Newburg_MainFeeder	0.017699	76.46	4320	0
Niagara_MainFeeder	1.063492	33.25	31.27	12.12699
Northcote_EastFeeder	0.222222	1110.48	4997.17	1.777778
Northcote_WestFeeder	0	0	0	2.2
Nortonville_MainFeeder	2.5	189.94	75.97	5.45
Norwich_MainFeeder	2	147.39	73.7	5.282051
Oakes_North_SouthFeeder	0	0	0	5
Oakes_South_EastFeeder	0	0	0	5.002994
Oakes_South_SouthFeeder	0.005	0.71	141.83	9.94
Oakes_South_WestFeeder	2	109.15	54.58	5
Oberon_MainFeeder	0.01	0.82	82.2	0.07
Oriska_MainFeeder	0.686047	34.22	49.88	3.395349
Oslo_MainFeeder	0	0	0	0.010309
Oslo_Manvel	0.006849	0.38	55.67	0.133562
Osnabrock_Jct_MainFeeder	11.052631	622.79	56.35	11.63158
Page_Nolan_and_RuralFeeder	0.030303	2.95	97.3	0.121212
Page_PageFeeder	1	97.32	97.32	1
Parshall_EastFeeder	1	8.27	8.27	10
Parshall_WestFeeder	1	8.27	8.27	11.0044
Pekin_MainFeeder	3.642105	168.14	46.17	15.09474
Pembina_EastFeeder	1.005769	25.31	25.16	4.182693
Pembina_EastFeeder	1.005769	25.31	25.16	4.182693
Pembina_WestFeeder	1	84.02	84.02	2
Pembina_WestFeeder	1	84.02	84.02	2
Penn_MainFeeder	8.961538	551.05	61.49	8.153846
Petersburg_East_Rural_MainFeeder	3	185.97	61.99	12
Petersburg_MainFeeder	1	31.27	31.27	14.00559
Red_Lake_Falls_East_NorthFeeder	0	0	0	2
Red_Lake_Falls_East_StHilaireFeeder	2	470.58	235.29	0
Red_Lake_Falls_SW_SoutheastFeeder	0	0	0	1
Regan_MainFeeder	2.782609	113.78	40.89	2.826087
Rock_Lake_MainFeeder	11.10978	650.95	58.59	14.68663
Rogers_Leal_Leal_and_RuralFeeder	1.575	209.81	133.21	7.975
Rogers_Leal_RogersFeeder	1.76087	233.56	132.64	8.847826
Rolette_MainFeeder	3.42723	374.14	109.17	11.02347
Rolla_Northwest_St_JohnFeeder	1	21.13	21.13	13.00402
Rolla_Southeast_EastFeeder	2	43.57	21.78	16.00363
Rolla_Southeast_WestFeeder	1	20.97	20.97	13.00376
Rosholt_MainFeeder	1	17.2	17.2	5.007143
Ross_Rural_MainFeeder	0.394737	20.75	52.57	2.842105
Roth_MainFeeder	1.2	32.83	27.35	2.6
Rugby_NorthWest_EastFeeder	0	0	0	4

Rugby_NorthWest_WestFeeder	0	0	0	0.008086
Rugby_South_EastFeeder	0	0	0	1
Rugby_South_WestFeeder	0	0	0	1
RutlandND_MainFeeder	1	292.53	292.53	3
Ryder_MainFeeder	0.735537	5.41	7.35	14.23967
Sanborn_MainFeeder	2.006993	106.94	53.28	2
Sardis_Brocket_MainFeeder	2	43.29	21.65	8.421875
Sawyer_MainFeeder	1	58.98	58.98	6.029914
Selz_MainFeeder	1.508475	324.24	214.95	2.576271
Shepard_Main_and_RuralFeeder	1.714286	40.53	23.64	13.28571
Sheyenne_GravelPit_MainFeeder	3	208.8	69.6	7.666667
Sheyenne_MainFeeder	1	82.18	82.18	7.010526
Simcoe_MainFeeder	1.714286	124.27	72.49	3
Souris_MainFeeder	1.421053	21.57	15.18	5.710526
Spiritwood_MainFeeder	1	24.82	24.82	1
St_Michaels_Mission_MainFeeder	4.071429	203.1	49.88	14.82143
St_Thomas_SouthEastFeeder	0	0	0	7.273913
St_Thomas_SouthEastFeeder	0	0	0	7.273913
St_Thomas_SouthWestFeeder	0	0	0	4.803738
St_Thomas_SouthWestFeeder	0	0	0	4.803738
Starkweather_MainFeeder	1	67.28	67.28	0
Stephen_Rural_MainFeeder	1	49.72	49.72	3
Strandquist_MainFeeder	2	166.55	83.27	6.014706
Streeter_MainFeeder	5.135593	102.57	19.97	31.67797
Surrey_MainFeeder	2	190.78	95.39	4
Sweetwater_MainFeeder	1	441.35	441.35	4
Sykeston_MainFeeder	2	225.9	112.95	3
Tokio_MainFeeder	0.388889	17.59	45.22	2.055556
Tower_City_MainFeeder	0	0	0	3.005102
Turtle_Lake_MainFeeder	3	241.46	80.49	5.014634
Tuttle_MainFeeder	4.05036	166.73	41.16	4.093525
Tyler_MainFeeder	1.51282	54.78	36.21	3.666667
Urbana_MainFeeder	1	95.12	95.12	2
Velva_EastFeeder	3	133.81	44.6	4.002833
Velva_WestFeeder	3	133.9	44.63	5.006186
Verona_MainFeeder	3	278.42	92.81	10
Victor_NorthFeeder	2	77.15	38.58	2
Victor_SouthFeeder	0.021277	1.31	61.6	0.06383
Viking_MainFeeder	2.05102	197.61	96.35	0
Voltaire_MainFeeder	0	0	0	3
Wabek_Plaza_MainFeeder	1	8.3	8.3	12.00453
Wahpeton_N_115_BobcatFeeder	1	52.77	52.77	0
Wahpeton_N_115_Masonite	1	52.77	52.77	0
Wahpeton_N_115_NEWahpeton_and V	1	52.72	52.72	0
Wahpeton_N_115_SouthFeeder	1	53.1	53.1	0
Wahpeton_N_115_WellLine	0.03125	1.65	52.77	0
Wahpeton_NW_EastFeeder	0.002862	0.09	32.58	0.309097
Wahpeton_NW_IndianSchool_CollegeFe	0.026504	2.09	78.89	0.005097
Wahpeton_NW_NorthRiser	0.222222	11.73	52.78	0.111111
Wahpeton_NW_NorthwestFeeder	0.004808	0.52	107.24	0
Wahpeton_NW_SchoolsFeeder	0.59364	41.58	70.04	1.194346
Wahpeton_NW_SouthFeeder	0.008425	1.15	136.46	0.497894
Wahpeton_SE_Beijo_Estates_SE_Wahpe	1	63.98	63.98	4.002227
Wahpeton_SE_SouthwestFeeder	0	0	0	9.449168
Wahpeton_SE_WestFeeder	0	0	0	3.581818
Walcott_MainFeeder	2	281.94	140.97	6
Walhalla_EastFeeder	1	60.98	60.98	6
Walhalla_EastFeeder	1	60.98	60.98	6
Walhalla_NorthMainFeeder	3	121.45	40.48	4
Walhalla_NorthMainFeeder	3	121.45	40.48	4
Walum_Jct_Walum_Sibley_Luverne_Kar	3	168.85	56.28	17.0354
Walum_Karnak_Sibley_Luverne_MainFe	3	208.54	69.51	17.0354
Warwick_MainFeeder	7	500.48	71.5	17
Warwick_Wells_MainFeeder	4	311.65	77.91	16
Washburn_NorthwestFeeder	3	93.18	31.06	4

Washburn_SoutheastFeeder	3	93.25	31.08	4
Webster_MainFeeder	1	441.48	441.48	6
Westhope_EastFeeder	0	0	0	2
Wheatland_MainFeeder	2	264.51	132.26	0.018868
Willow_City_MainFeeder	3.08	110.65	35.93	5.115
WiltonND_Rural_MainFeeder	3.6	419.92	116.64	2.4
Windsor_MainFeeder	4.68421	184.47	39.38	19.89474
Wing_MainFeeder	3.689394	123.67	33.52	3.69697
Wyndmere_MainFeeder	2	132.15	66.07	8.034483
York_MainFeeder	1	32.45	32.45	6.039216

Equipment ID	Equipment Type	Customers	Outage Start	Outage End	Duration	Cause	Notes
Abercrombie_McCauleyville_Kent	Substation	230	2021-01-15T10:14:23	2021-01-15T10:14:31	0:00:08	Weather	We had heavy frost and some ice along with strong winds and lines were galloping.
Abercrombie_McCauleyville_Kent	Substation	230	2021-03-24T03:17:09	2021-03-24T03:18:08	0:00:59	Unknown	Something caused 1 phase to drop to under 100 volts then it rebounded back, the other 2 phases maintained proper voltage.
Abercrombie_McCauleyville_Kent	Substation	230	2021-03-29T13:45:50	2021-03-29T13:45:59	0:00:09	Vegetation	tree was into the line and caused 1 phase to lock out
Abercrombie_McCauleyville_Kent	Substation	230	2021-06-07T22:46:21	2021-06-07T22:51:06	0:04:45	Weather	Storms traveled through the area with winds heavy rain and lots of lightning.
Abercrombie_McCauleyville_Kent	Substation	230	2021-07-11T04:10:20	2021-07-11T04:10:43	0:00:23	Equip Fail Arrester	High Side arrester was blown in Christine Sub. line was patrolled and nothing was found.
Abercrombie_McCauleyville_Kent	Substation	230	2021-07-24T00:57:53	2021-07-24T00:58:01	0:00:08	Weather	Strong thunder storms in the whole area, had to isolate and restore by areas. Christine sub had damage so it took longer to restore that town.
Abercrombie_McCauleyville_Kent	Substation	230	2021-07-24T01:32:46	2021-07-24T01:37:58	0:05:12	Weather	Strong thunder storms in the whole area, had to isolate and restore by areas. Christine sub had damage so it took longer to restore that town.
Abercrombie_McCauleyville_Kent	Substation	230	2021-08-24T02:44:04	2021-08-24T02:44:12	0:00:08	Weather	Thunder storms in the area with a lot of lightning and strong winds.
Abercrombie_McCauleyville_Kent	Substation	230	2021-08-24T03:58:38	2021-08-24T03:58:47	0:00:09	Weather	Thunder storms in the area with a lot of lightning and strong winds.
Abercrombie_McCauleyville_Kent	Substation	230	2021-09-19T21:21:49	2021-09-19T21:21:55	0:00:06	Equip Fail Insulator	Cracked insulator was allowing tracking to the cross arm.
Absaraka	Substation	28	2021-05-01T09:04:01	2021-05-01T09:05:01	0:01:00	Unknown	SEL is 13.0 miles from Buffalo 745. Patrolled but cause not known.
Absaraka	Substation	28	2021-06-09T13:00:04	2021-06-09T14:05:32	1:05:28	Planned	Replace substation transformer.
Absaraka	Substation	28	2021-09-02T03:18:33	2021-09-02T03:19:33	0:01:00	Weather	Lightning/rain in the area.
Alice	Substation	31	2021-06-07T21:36:25	2021-06-07T23:09:26	1:33:01	Weather	Storms traveled through the area with winds heavy rain and lots of lightning.
Alice	Substation	31	2021-06-09T13:35:23	2021-06-09T14:06:34	0:31:11	Weather	Broken pole on the 115 line
Alice	Substation	31	2021-08-08T05:34:41	2021-08-08T05:35:05	0:00:24	Unknown	115 tripped out no cause found
Alice	Substation	41	2021-09-02T18:26:01	2021-09-02T20:57:25	2:31:24	Equip Fail Arrester	High side arrestors in Alice sub failed line was patrolled and nothing was found.
Alice	Substation	31	2021-10-09T13:32:20	2021-10-09T13:32:53	0:00:33	Weather	Thunder storms and lightning in the area.
Alice	Substation	31	2021-10-15T12:45:46	2021-10-15T12:46:00	0:00:14	Unknown	115 blinked out line was patrolled and no cause found.
Amenia	Substation	70	2021-06-07T21:58:55	2021-06-07T21:59:03	0:00:08	Weather	Storms traveled through the area with winds heavy rain and lots of lightning.
Amenia	Substation	70	2021-06-07T22:00:05	2021-06-08T00:09:16	2:09:11	Weather	AMB audited 6/28/21 - Storms traveled through the area with winds heavy rain and lots of lightning.
Amenia	Substation	70	2021-08-22T15:26:39	2021-08-22T18:08:25	2:41:46	Vegetation	AMB audited 8/27/21 - Storm caused some tree damage we had to cut out trees to get towns back on.
Amenia	Substation	70	2021-08-26T03:54:52	2021-08-26T03:55:04	0:00:12	Weather	Strong storms with lightning and strong winds caused numerous outages.
Amenia	Substation	70	2021-10-20T15:12:45	2021-10-20T15:12:51	0:00:06	Equip Fail Conductor	Splice failed and conductor hit the ground.
Amenia	Substation	70	2021-10-21T16:24:08	2021-10-21T16:10:15	1:46:07	Equip Fail Conductor	Splice failed and conductor hit the ground.
Amenia	Substation	70	2021-10-26T14:14:51	2021-10-26T14:31:26	0:16:35	Vegetation	Tree branch fell across all 3 phases tripping out the breaker.
Amenia	Substation	70	2021-10-27T12:12:03	2021-10-27T12:12:07	0:00:04	Vegetation	Tree branch fell across all 3 phases tripping out the breaker.
Amenia	Substation	70	2021-12-07T10:53:45	2021-12-07T10:53:51	0:00:06	Vehicle Accident	KPH made contact with our 41.6 line while doing backhoe work causing breaker to trip.

Anamoose	Substation	183	2021-05-22T07:59:10	2021-05-22T07:59:18	0:00:08	Unknown	SRep could not find an issue
Anamoose	Substation	183	2021-06-11T03:54:19	2021-06-11T05:41:24	1:47:05	Equip Fail Arrester	Lightning arrester failed due to early morning lightning.
Anamoose	Substation	183	2021-08-09T14:27:44	2021-08-09T14:27:51	0:00:07	Lightning	storm came through causing Lightning, Hail and rain
Anamoose	Substation	183	2021-08-22T09:49:31	2021-08-22T09:49:38	0:00:07	Weather	Windy rainy weather was happening when this blink occurred. SRep believes this was the cause
Anamoose	Substation	183	2021-08-22T09:54:30	2021-08-22T09:55:52	0:01:22	Weather	Windy rainy weather was happening when this blink occurred. SRep believes this was the cause
Anamoose	Substation	183	2021-09-15T06:20:40	2021-09-15T07:07:38	0:46:58	Equip Fail Arrester	Arrester blew. cause unknown
Anamoose	Substation	183	2021-09-18T11:03:05	2021-09-18T11:03:14	0:00:09	other	Unknown cause at this time. Working with SRep and Collin Kremerier to troubleshoot the ongoing blinks in the area. Thinking it's possibly a bad
Anamoose	Substation	183	2021-09-18T11:04:26	2021-09-18T11:04:33	0:00:07	other	Unknown cause at this time. Working with SRep and Collin Kremerier to troubleshoot the ongoing blinks in the area. Thinking it's possibly a bad
Anamoose	Substation	183	2021-09-20T12:32:07	2021-09-20T12:32:16	0:00:09	other	Unknown cause at this time. Working with SRep and Collin Kremerier to troubleshoot the ongoing blinks in the area. Thinking it's possibly a bad
Anamoose	Substation	183	2021-10-10T11:04:02	2021-10-10T11:04:08	0:00:06	Unknown	SRep patrolled line the next day and could not find anything. Blink has not occurred like this since.
Anamoose	Substation	183	2021-12-31T23:44:38	2021-12-31T23:55:37	0:10:59		
Anamoose	Substation	183	2021-12-31T23:56:10	2021-12-31T23:58:23	0:02:13		
Anamoose_Rural	Substation	1	2021-05-07T14:05:06	2021-05-07T15:19:43	1:14:37	Planned	AMB audited 5/25/21 - Per Nick: repair of crossarm brace scheduled outage
Anamoose_Rural	Substation	1	2021-06-09T10:34:56	2021-06-09T11:29:25	0:54:29	Planned	Planned outage to repair a X-arm brace
Anamoose_Rural	Substation	1	2021-06-11T03:54:29	2021-06-11T07:24:40	3:30:11	Equip Fail Arrester	Lightning arrester failed due to early morning lightning.
Anamoose_Rural	Substation	1	2021-08-09T14:27:55	2021-08-09T14:28:02	0:00:07	Lightning	storm came through causing Lightning, Hail and rain
Anamoose_Rural	Substation	1	2021-08-22T09:49:41	2021-08-22T09:49:48	0:00:07	Weather	Windy rainy weather was happening when this blink occurred. SRep believes this was the cause
Anamoose_Rural	Substation	1	2021-08-22T09:54:41	2021-08-22T09:56:03	0:01:22	Weather	Windy rainy weather was happening when this blink occurred. SRep believes this was the cause
Anamoose_Rural	Substation	1	2021-09-15T06:20:57	2021-09-15T07:07:55	0:46:58	Equip Fail Arrester	Arrester blew. cause unknown
Anamoose_Rural	Substation	1	2021-09-18T11:03:23	2021-09-18T11:03:31	0:00:08	other	Unknown cause at this time. Working with SRep and Collin Kremerier to troubleshoot the ongoing blinks in the area. Thinking it's possibly a bad
Anamoose_Rural	Substation	1	2021-09-18T11:04:43	2021-09-18T11:04:51	0:00:08	other	Unknown cause at this time. Working with SRep and Collin Kremerier to troubleshoot the ongoing blinks in the area. Thinking it's possibly a bad
Anamoose_Rural	Substation	1	2021-09-20T12:32:23	2021-09-20T12:32:34	0:00:11	other	Unknown cause at this time. Working with SRep and Collin Kremerier to troubleshoot the ongoing blinks in the area. Thinking it's possibly a bad
Anamoose_Rural	Substation	1	2021-10-10T11:04:11	2021-10-10T11:04:22	0:00:11	Unknown	SRep patrolled line the next day and could not find anything. Blink has not occurred like this since.
Anamoose_Rural	Substation	1	2021-12-31T23:44:31	2021-12-31T23:55:30	0:10:59		
Anamoose_Rural	Substation	1	2021-12-31T23:56:03	2021-12-31T23:58:17	0:02:14		
Antler_Kuroki	Substation	203	2021-10-13T12:47:38	2021-10-13T12:47:51	0:00:13		
Antler_Kuroki	Substation	203	2021-12-09T23:04:48	2021-12-10T00:42:04	1:37:16		
Ardoch	Substation	42	2021-01-14T12:07:18	2021-01-14T12:07:36	0:00:18		
Ardoch	Substation	42	2021-05-19T20:31:18	2021-05-19T20:31:31	0:00:13		

Ardoch	Substation	42	2021-08-02T08:02:39	2021-08-02T08:02:53	0:00:14		
Ardoch	Substation	42	2021-08-09T15:36:16	2021-08-09T15:36:29	0:00:13		
Ardoch	Substation	42	2021-08-23T09:41:38	2021-08-23T09:41:52	0:00:14		
Ardoch	Substation	42	2021-09-20T17:06:23	2021-09-20T17:06:41	0:00:18		
Ardoch	Substation	42	2021-10-22T11:23:04	2021-10-22T11:24:06	0:01:02		
Ardoch	Substation	28	2021-11-24T01:53:12	2021-11-24T01:53:24	0:00:12		
Ardoch	Substation	14	2021-11-24T01:53:25	2021-11-24T01:53:31	0:00:06		
Ardoch	Substation	42	2021-11-24T11:23:23	2021-11-24T11:23:40	0:00:17		
Ardoch_Beet_Dump	Substation	4	2021-01-14T12:07:24	2021-01-14T12:07:33	0:00:09		
Ardoch_Beet_Dump	Substation	4	2021-03-03T12:59:16	2021-03-03T16:46:26	3:47:10	Planned	AMB audited 3/30/21 - replace substation transformer
Ardoch_Beet_Dump	Substation	4	2021-05-19T20:31:24	2021-05-19T20:31:31	0:00:07		
Ardoch_Beet_Dump	Substation	4	2021-08-02T08:02:42	2021-08-02T08:02:53	0:00:11		
Ardoch_Beet_Dump	Substation	4	2021-08-09T15:36:22	2021-08-09T15:36:28	0:00:06		
Ardoch_Beet_Dump	Substation	4	2021-08-23T09:41:46	2021-08-23T09:41:52	0:00:06		
Ardoch_Beet_Dump	Substation	4	2021-09-20T17:06:34	2021-09-20T17:06:41	0:00:07		
Ardoch_Beet_Dump	Substation	4	2021-10-22T11:23:16	2021-10-22T11:23:23	0:00:07		
Ardoch_Beet_Dump	Substation	4	2021-11-24T01:53:18	2021-11-24T01:53:25	0:00:07		
Ardoch_Beet_Dump	Substation	4	2021-11-24T11:23:25	2021-11-24T11:23:34	0:00:09		
Ayr	Substation	51	2021-05-01T09:04:01	2021-05-01T09:04:34	0:00:33	Unknown	SEL is 13.0 miles from Buffalo 745. Patrolled but cause not known.
Ayr	Substation	53	2021-12-09T23:04:44	2021-12-10T00:42:20	1:37:36	Equip Fail Substation	SEL 12.8 miles from Buffalo 345 kv sub breaker 745. Found failed PT on the 41.6 kv bay in the sub.
Balfour_BalfourFeeder	Feeder	28	2021-02-16T07:34:10	2021-02-16T07:35:34	0:01:24	other	This was due to the Storms that hit Texas that caused major switching incidence up in our region. No fault of OTP
Balfour_BalfourFeeder	Feeder	28	2021-06-08T15:22:39	2021-06-08T15:22:51	0:00:12	Weather	SRep stated a thin line storm with Lightning passed through causing a blink. SRep patrolled after and could not find anything specific.
Balfour_BalfourFeeder	Feeder	28	2021-10-10T11:03:58	2021-10-10T11:04:20	0:00:22	Unknown	SRep patrolled line the next day and could not find anything. Blink has not occurred like this since.
Balfour_Butte_and_KiefFeeder	Feeder	141	2021-02-16T07:34:10	2021-02-16T07:35:37	0:01:27	other	This was due to the Storms that hit Texas that caused major switching incidence up in our region. No fault of OTP
Balfour_Butte_and_KiefFeeder	Feeder	141	2021-06-08T15:22:23	2021-06-08T15:23:30	0:01:07	Weather	SRep stated a thin line storm with Lightning passed through causing a blink. SRep patrolled after and could not find anything specific.
Balfour_Butte_and_KiefFeeder	Feeder	141	2021-10-10T11:04:00	2021-10-10T11:04:22	0:00:22	Unknown	SRep patrolled line the next day and could not find anything. Blink has not occurred like this since.
Balfour_Butte_and_KiefFeeder	Feeder	36	2021-11-04T08:15:04	2021-11-04T08:15:11	0:00:07		
Barney	Substation	60	2021-07-05T02:12:14	2021-07-05T02:12:21	0:00:07	Unknown	41.6 line issue we will patrol and update if we find something.
Barney	Substation	61	2021-09-17T17:06:17	2021-09-17T17:06:48	0:00:31	Vehicle Accident	Farmer tore down 41.6 kva line west of Wahpeton

Barney	Substation	61	2021-10-13T16:41:58	2021-10-13T16:42:52	0:00:54	Weather	Severe storm was rolling through the area with strong winds and heavy rain.
Barney	Substation	61	2021-10-25T09:55:54	2021-10-25T09:58:05	0:02:11	Equip Fail Substation	Regulator failed so we had to take outages to take out of service
Barney	Substation	61	2021-10-25T10:00:04	2021-10-25T10:13:34	0:13:30	Equip Fail Substation	Regulator failed so we had to take outages to take out of service
Bartlett	Substation	4	2021-05-17T14:52:53	2021-05-17T14:53:01	0:00:08	other	Switch flashed over due to loading when dispatch opened it.
Bartlett	Substation	4	2021-05-29T17:27:35	2021-05-29T17:45:49	0:18:14	Equip Fail Insulator	Pole top insulator tracked across burning pole top off
Bartlett	Substation	4	2021-06-26T17:04:01	2021-06-26T17:04:07	0:00:06	Unknown	Unknown
Bartlett	Substation	4	2021-06-27T16:03:12	2021-06-27T16:03:19	0:00:07	Unknown	Unknown
Bartlett	Substation	4	2021-07-28T07:36:22	2021-07-28T19:11:51	11:35:29	Planned	AMB audited 8/27/21 - Contractor work on replacing 41.6kv line - switching and work.
Bartlett	Substation	4	2021-08-09T15:36:17	2021-08-09T15:36:24	0:00:07	Weather	Severe storm moved through the area
Bartlett	Substation	4	2021-08-18T08:02:39	2021-08-18T09:09:28	1:06:49	Planned	Planned outage for transmission work
Bartlett	Substation	4	2021-08-20T08:05:02	2021-08-20T08:05:08	0:00:06	Unknown	Unknown
Bartlett	Substation	4	2021-08-27T10:57:52	2021-08-27T10:57:58	0:00:06	Unknown	Unknown. Weather moved through the area
Bartlett	Substation	4	2021-09-20T17:06:29	2021-09-20T17:06:37	0:00:08	Unknown	Unknown
Belcourt	Substation	294	2021-03-23T15:45:24	2021-03-23T16:16:34	0:31:10	Equip Fail Insulator	Insulator tracked across the 69kv line and burnt top of the pole off between Belcourt and Rolla
Belcourt	Substation	294	2021-04-13T15:35:05	2021-04-13T15:35:36	0:00:31	Vehicle Accident	Semi slid off the road breaking 69kv pole with distribution.
Belcourt	Substation	294	2021-06-11T03:44:44	2021-06-11T03:45:02	0:00:18	Weather	Severe Weather moved through the area
Belcourt	Substation	294	2021-08-04T10:02:16	2021-08-04T10:02:37	0:00:21	Weather	Storm moved through
Belcourt	Substation	294	2021-08-09T06:52:27	2021-08-09T06:52:44	0:00:17	Weather	Storm cell moved through area
Belcourt	Substation	294	2021-08-09T07:06:59	2021-08-09T07:07:18	0:00:19	Weather	Storm cell moved through area
Belcourt_BIAFeeder	Feeder	157	2021-01-20T12:59:19	2021-01-20T12:59:26	0:00:07	Equip Fail Conductor	Conductor broke and on hanging low.
Belcourt_BIAFeeder	Feeder	157	2021-03-29T18:38:48	2021-03-29T18:38:56	0:00:08	Unknown	Unknown. High winds moving through the area.
Belcourt_MainFeeder	Feeder	137	2021-06-14T10:05:25	2021-06-14T10:05:31	0:00:06	Unknown	Unknown
Belcourt_MainFeeder	Feeder	137	2021-08-22T15:21:18	2021-08-22T17:08:00	1:46:42	Equip Fail Insulator	Double dead end Risor Pole burnt off during storm.
Belcourt_MainFeeder	Feeder	137	2021-08-23T03:00:54	2021-08-23T03:17:20	0:16:26	Equip Fail Insulator	Dead End Risor Pole burnt off during storm
Belcourt_MainFeeder	Feeder	137	2021-10-03T12:14:58	2021-10-03T12:15:05	0:00:07	Unknown	Unknown
Belcourt_MainFeeder	Feeder	137	2021-11-07T08:26:42	2021-11-07T08:26:49	0:00:07	Unknown	Unknown
Belcourt_MainFeeder	Feeder	137	2021-11-11T19:21:49	2021-11-11T19:21:56	0:00:07	Unknown	Unknown
Belcourt_MainFeeder	Feeder	137	2021-12-04T20:57:37	2021-12-04T20:57:47	0:00:10	Unknown	Unknown
Belcourt_West	Substation	7	2021-03-23T15:45:26	2021-03-23T16:16:40	0:31:14	Equip Fail Insulator	Insulator tracked across the 69kv line and burnt top of the pole off between Belcourt and Rolla

Belcourt_West	Substation	7	2021-04-13T15:35:09	2021-04-13T15:35:41	0:00:32	Vehicle Accident	Semi slid off the road breaking 69kv pole with distribution.
Belcourt_West	Substation	7	2021-06-11T03:44:48	2021-06-11T03:45:05	0:00:17	Weather	Severe Weather moved through the area
Belcourt_West	Substation	7	2021-08-04T10:02:21	2021-08-04T10:02:41	0:00:20	Weather	Storm moved through
Belcourt_West	Substation	7	2021-08-09T06:52:31	2021-08-09T06:52:48	0:00:17	Weather	Storm cell moved through area
Belcourt_West	Substation	7	2021-08-09T07:07:03	2021-08-09T07:07:22	0:00:19	Weather	Storm cell moved through area
Belcourt_West_OjibwaFeeder	Feeder	3	2021-06-14T10:05:27	2021-06-14T10:05:34	0:00:07	Unknown	Unknown
Belcourt_West_OjibwaFeeder	Feeder	3	2021-08-22T15:21:27	2021-08-22T17:08:04	1:46:37	Equip Fail Insulator	Double dead end Risor Pole burnt off during storm.
Belcourt_West_OjibwaFeeder	Feeder	3	2021-08-23T03:00:59	2021-08-23T03:17:24	0:16:25	Equip Fail Insulator	Double dead end Risor Pole burnt off during storm.
Belcourt_West_OjibwaFeeder	Feeder	3	2021-10-03T12:14:53	2021-10-03T12:14:59	0:00:06	Unknown	Unknown
Belcourt_West_OjibwaFeeder	Feeder	3	2021-11-07T08:26:35	2021-11-07T08:26:43	0:00:08	Unknown	Unknown
Belcourt_West_OjibwaFeeder	Feeder	3	2021-11-11T19:22:03	2021-11-11T19:22:10	0:00:07	Unknown	Unknown
Belcourt_West_OjibwaFeeder	Feeder	3	2021-12-04T20:57:35	2021-12-04T20:57:40	0:00:05	Unknown	Unknown
Belcourt_West_Skydancer_WestFeeder	Feeder	4	2021-11-16T13:45:56	2021-11-16T13:46:21	0:00:25	Planned	Electrical contractor working on casino addition
Benedict	Substation	43	2021-07-16T07:44:24	2021-07-16T07:44:41	0:00:17	Unknown	SRep could not find a reason for blink
Benedict	Substation	43	2021-09-02T09:40:31	2021-09-02T09:40:43	0:00:12	Weather	Rain and lightning were occurring throughout the region.
Bergen	Substation	17	2021-02-16T07:34:10	2021-02-16T07:35:37	0:01:27	other	This was due to the Storms that hit Texas that caused major switching incidence up in our region. No fault of OTP
Bergen	Substation	17	2021-06-08T15:22:27	2021-06-08T15:22:43	0:00:16	Weather	SRep stated a thin line storm with Lightning passed through causing a blink. SRep patrolled after and could not find anything specific.
Bergen	Substation	17	2021-10-10T11:03:56	2021-10-10T11:04:08	0:00:12	Unknown	SRep patrolled line the next day and could not find anything. Blink has not occurred like this since.
Berlin	Substation	29	2021-04-11T21:15:55	2021-04-11T21:17:05	0:01:10	Equip Fail Insulator	Insulator failed and tracked causing pole to burn off.
Berlin	Substation	29	2021-05-23T07:20:25	2021-05-23T07:20:33	0:00:08	Unknown	Unknown and not patrolled.
Berlin	Substation	29	2021-06-07T21:56:04	2021-06-07T22:53:03	0:56:59	Equip Fail Pole	4 broken poles on the ground between LaMoure and Verona.
Berlin	Substation	29	2021-06-07T23:34:13	2021-06-07T23:34:51	0:00:38	Weather	Storm in the area.
Berlin	Substation	29	2021-06-08T02:39:52	2021-06-08T02:40:40	0:00:48	Equip Fail Substation	Failed regulator in Grand Rapids Jct sub.
Berlin	Substation	29	2021-06-11T03:43:01	2021-06-11T03:43:07	0:00:06	Weather	Storm in the area.
Berlin	Substation	29	2021-06-11T03:56:19	2021-06-11T03:56:25	0:00:06	Weather	Storm in the area.
Berlin	Substation	29	2021-06-11T09:39:06	2021-06-11T10:29:06	0:50:00	Weather	Storm in the area.
Berlin	Substation	29	2021-06-14T14:08:31	2021-06-14T14:08:35	0:00:04	Equip Fail Pole	Replaced downed poles due to storm in the area.
Berlin	Substation	29	2021-08-07T20:25:16	2021-08-07T20:25:20	0:00:04	Weather	Storm in the area.
Berlin	Substation	29	2021-08-28T07:44:56	2021-08-28T07:45:02	0:00:06	Weather	Storm in the area.

Berlin	Substation	29	2021-11-04T10:11:05	2021-11-04T10:11:11	0:00:06	Unknown	Edgeley 415/465 & Oakes 815/825 operated. SEL 6.6 miles from Edgeley and 40.0 miles from Oakes. Clear day. Cause unknown and AMB audited 3/1/21 - Cutout had blown during very cold stretch of weather. No cause was found but Service Rep thinks it was due to Heavy Frost on the Lines
Berwick	Substation	12	2021-02-06T17:55:50	2021-02-06T19:27:03	1:31:13	Equip Fail Cutout	
Binford_Jesse	Substation	166	2021-01-30T03:16:06	2021-01-30T03:21:07	0:05:01	Weather	
Binford_Jesse	Substation	166	2021-02-02T20:17:54	2021-02-02T20:18:06	0:00:12	Weather	6 - 8 inch frost with windy conditions causing phases to slap together
Binford_Jesse	Substation	166	2021-02-03T20:19:28	2021-02-03T20:19:45	0:00:17	Weather	Heavy Frost and wind
Binford_Jesse	Substation	166	2021-02-03T21:45:24	2021-02-03T21:45:42	0:00:18	Weather	Heavy Frost and wind causing phases to slap together.
Binford_Jesse	Substation	166	2021-02-03T22:24:24	2021-02-03T22:24:41	0:00:17	Weather	Heavy Frost and wind causing phases to slap together.
Binford_Jesse	Substation	166	2021-02-03T23:46:27	2021-02-03T23:46:46	0:00:19	Weather	Heavy Frost and wind causing phases to slap together.
Binford_Jesse	Substation	166	2021-02-04T00:32:22	2021-02-04T00:33:16	0:00:54	Weather	Heavy Frost and wind causing phases to slap together.
Binford_Jesse	Substation	166	2021-02-04T00:36:23	2021-02-04T00:36:40	0:00:17	Weather	Heavy Frost and wind causing phases to slap together.
Binford_Jesse	Substation	166	2021-04-14T21:52:59	2021-04-14T21:53:14	0:00:15	Unknown	Unknown
Binford_Jesse	Substation	166	2021-05-02T13:11:03	2021-05-02T13:11:20	0:00:17	Unknown	Unknown
Binford_Jesse	Substation	166	2021-05-19T19:27:12	2021-05-19T19:27:55	0:00:43	Weather	Storm Front moving through the area
Binford_Jesse	Substation	166	2021-05-24T15:24:12	2021-05-24T15:24:32	0:00:20	Equip Fail Insulator	Broken Insulator on the 41.6kv line near Cooperstown.
Binford_Jesse	Substation	166	2021-05-24T15:25:06	2021-05-24T16:12:30	0:47:24	Equip Fail Insulator	Broken Insulator on the 41.6kv line near Cooperstown.
Binford_Jesse	Substation	76	2021-07-07T14:32:07	2021-07-07T14:35:18	0:03:11	Unknown	Unknown
Binford_Jesse	Substation	76	2021-07-07T14:46:03	2021-07-07T14:47:57	0:01:54	Unknown	Unknown
Binford_Jesse	Substation	76	2021-07-07T14:50:21	2021-07-07T14:51:40	0:01:19	Unknown	Unknown
Binford_Jesse	Substation	166	2021-07-19T13:22:59	2021-07-19T13:23:56	0:00:57	Weather	Weather moved through the area. Lots of Momentaries - Lightning
Binford_Jesse	Substation	166	2021-07-26T08:52:32	2021-07-26T08:52:51	0:00:19	Unknown	Unknown
Binford_Jesse	Substation	166	2021-09-02T19:43:20	2021-09-02T19:43:39	0:00:19	Unknown	unknown
Binford_Jesse	Substation	166	2021-10-05T08:36:19	2021-10-05T08:36:42	0:00:23	Unknown	Unknown
Bisbee_FeederSection	FeederSection	1	2021-05-13T14:20:57	2021-05-13T14:21:05	0:00:08		
Bisbee_FeederSection	FeederSection	1	2021-06-01T16:04:50	2021-06-01T16:04:57	0:00:07	Unknown	Unknown
Bisbee_FeederSection	FeederSection	1	2021-08-09T09:48:04	2021-08-09T09:48:10	0:00:06	Weather	Severe storm moved through the area
Bisbee_FeederSection	FeederSection	1	2021-10-27T15:58:33	2021-10-27T15:58:39	0:00:06	Unknown	Unknown
Bisbee_FeederSection	FeederSection	3	2021-11-15T06:08:07	2021-11-15T07:20:38	1:12:31	Equip Fail Insulator	Insulator tracked across burning pole off with recloser on it.
Bisbee_FeederSection	FeederSection	3	2021-12-29T22:08:40	2021-12-29T23:52:19	1:43:39	Equip Fail Conductor	Broken splice on conductor
Bisbee_FeederSection	FeederSection	3	2021-12-29T23:53:22	2021-12-30T02:04:02	2:10:40	Equip Fail Conductor	Broken splice on conductor

Bordulac	Substation	49	2021-02-03T10:28:22	2021-02-03T10:28:32	0:00:10	Weather	Heavy frost on the conductors caused momentary and sustained outages when the wind blew..
Bordulac	Substation	49	2021-02-03T16:30:39	2021-02-03T16:31:08	0:00:29	Weather	Heavy frost on the conductors caused momentary and sustained outages when the wind blew..
Bordulac	Substation	49	2021-02-03T16:34:03	2021-02-03T16:34:17	0:00:14	Weather	Heavy frost on the conductors caused momentary and sustained outages when the wind blew..
Bordulac	Substation	49	2021-02-03T18:22:55	2021-02-03T18:23:09	0:00:14	Weather	Heavy frost on the conductors caused momentary and sustained outages when the wind blew..
Bordulac	Substation	49	2021-02-03T18:28:10	2021-02-03T18:28:19	0:00:09	Weather	Heavy frost on the conductors caused momentary and sustained outages when the wind blew..
Bordulac	Substation	49	2021-02-24T15:47:07	2021-02-24T16:11:58	0:24:51	Equip Fail Pole	Burned pole due to an insulator tracking 1.5 miles north of Kensal.
Bordulac	Substation	49	2021-03-02T07:52:31	2021-03-02T07:52:37	0:00:06	other	Interruption occurred when attempting to switch transmission line due to higher load flow than what the switch could break.
Bordulac	Substation	49	2021-03-30T00:22:32	2021-03-30T01:08:53	0:46:21	Equip Fail Conductor	Broken conductor, broken crossarms, broken insulators between Bordulac to Kensal due to strong winds. Line switched out for the night.
Bordulac	Substation	49	2021-04-01T05:49:37	2021-04-01T05:49:41	0:00:04	Unknown	Unknown and not investigated.
Bordulac	Substation	49	2021-06-30T08:26:40	2021-06-30T08:31:28	0:04:48	Planned	Outage taken to allow the electrician to work on the CT cabinet.
Bordulac	Substation	49	2021-07-16T13:47:34	2021-07-16T14:02:26	0:14:52	Planned	De-energized transformer to allow electrician to work in the CT cabinet.
Bottineau_Downtown	Substation	423	2021-08-10T07:34:37	2021-08-10T07:34:51	0:00:14	Equip Fail Arrester	failed lightning arrester.
Bottineau_Downtown	Substation	423	2021-09-03T17:50:19	2021-09-03T17:50:32	0:00:13	Unknown	SRep could not determine the cause at this time.
Bottineau_Downtown	Substation	423	2021-09-16T23:08:44	2021-09-16T23:08:59	0:00:15	Unknown	no cause found for blink.
Bottineau_Downtown	Substation	423	2021-09-17T06:54:33	2021-09-17T06:55:34	0:01:01	Unknown	SRep could not see a reason for the slight outage.
Bottineau_Downtown	Substation	423	2021-09-21T10:36:37	2021-09-21T10:36:52	0:00:15	Unknown	SRep could not determine a reason for the blink.
Bottineau_Downtown	Substation	423	2021-11-14T12:38:17	2021-11-14T12:38:29	0:00:12		
Bottineau_Downtown_EastFeeder	Feeder	96	2021-08-19T13:39:18	2021-08-19T13:41:05	0:01:47	Unknown	Bott. SRep did not find a cause for the blink, but states its holding now.
Bottineau_Downtown_EastFeeder	Feeder	96	2021-08-19T13:47:31	2021-08-19T13:49:08	0:01:37	Unknown	Bott. SRep did not find a cause for the blink, but states its holding now.
Bottineau_Downtown_EastFeeder	Feeder	96	2021-12-01T12:02:21	2021-12-01T12:17:52	0:15:31		
Bottineau_Downtown_EastFeeder	Feeder	96	2021-12-01T12:20:29	2021-12-01T12:30:30	0:10:01		
Bottineau_South_SouthwestFeeder	Feeder	371	2021-07-17T13:03:53	2021-07-17T13:04:00	0:00:07	Animal	Squirrel
Bowdon	Substation	139	2021-02-02T01:57:52	2021-02-02T01:58:54	0:01:02	Unknown	SRep could not find a reason for outage
Bowdon	Substation	139	2021-02-02T15:47:18	2021-02-02T15:47:27	0:00:09	Unknown	SRep could not find an exact cause of blink
Bowdon	Substation	139	2021-02-22T15:24:35	2021-02-22T15:51:49	0:27:14	Equip Fail Insulator	Insulator failed and burned the pole as well. SReps were able to fix.
Bowdon	Substation	139	2021-03-21T00:03:27	2021-03-21T00:03:38	0:00:11	Unknown	SRep could not find a reason for the blink
Bowdon	Substation	139	2021-07-09T04:02:32	2021-07-09T04:11:44	0:09:12	other	Central Power had as issue in their substation which feeds ours - this was a Central Power issue not ours.
Bowdon	Substation	139	2021-08-13T05:19:49	2021-08-13T05:19:58	0:00:09	Bird	SRep stated a bird had been found in the sub.
Bowdon	Substation	139	2021-10-27T15:20:15	2021-10-27T15:20:20	0:00:05		

Bowdon	Substation	139	2021-10-27T17:46:27	2021-10-27T17:46:34	0:00:07		
Bowdon	Substation	139	2021-11-24T01:07:22	2021-11-24T01:07:28	0:00:06		
Brinsmade	Substation	17	2021-03-12T20:06:41	2021-03-12T21:20:49	1:14:08	other	Farmers burning ditches/sloughs burnt two transmission poles.
Brinsmade	Substation	17	2021-04-30T11:45:31	2021-04-30T11:45:51	0:00:20	Unknown	Unknown
Brinsmade	Substation	17	2021-05-21T09:31:17	2021-05-21T09:31:49	0:00:32	Equip Fail Insulator	Insulator failed on 41.6kv line west of Leeds
Brinsmade	Substation	17	2021-05-21T09:32:59	2021-05-21T09:33:32	0:00:33	Equip Fail Insulator	Insulator failed on 41.6kv line west of Leeds
Brinsmade	Substation	17	2021-05-21T09:42:57	2021-05-21T09:43:05	0:00:08	Equip Fail Insulator	Insulator failed on 41.6kv line west of Leeds
Brinsmade	Substation	17	2021-05-21T09:44:27	2021-05-21T09:49:43	0:05:16	Equip Fail Insulator	Insulator failed on 41.6kv line west of Leeds
Brinsmade	Substation	17	2021-05-29T22:32:11	2021-05-29T22:32:18	0:00:07	Weather	Storm moved through - Lots of Lightning
Brinsmade	Substation	17	2021-06-06T02:35:04	2021-06-06T04:05:13	1:30:09	Weather	Severe storm moved through with high winds. Broken insulators and failed breaker in SW.
Brinsmade	Substation	17	2021-06-06T08:59:25	2021-06-06T09:01:49	0:02:24	Weather	Severe storm moved through with high winds. Broken insulators and failed breaker in SW.
Brinsmade	Substation	17	2021-06-11T03:51:54	2021-06-11T04:00:43	0:08:49	Weather	Severe weather moved through the area with high winds and lightning
Brinsmade	Substation	17	2021-06-11T10:17:25	2021-06-11T10:20:15	0:02:50	Equip Fail Insulator	Insulator tracked across and burnt pole top off on 41.6kv line
Brinsmade	Substation	17	2021-06-11T10:24:14	2021-06-11T11:08:03	0:43:49	Equip Fail Insulator	Insulator tracked across and burnt pole top off on 41.6kv line
Brinsmade	Substation	17	2021-08-02T04:35:16	2021-08-02T04:35:25	0:00:09	Unknown	Unknown
Brinsmade	Substation	17	2021-08-02T04:56:52	2021-08-02T04:57:00	0:00:08	Unknown	Unknown
Brinsmade	Substation	17	2021-08-02T04:57:36	2021-08-02T04:57:41	0:00:05	Unknown	Unknown
Brinsmade	Substation	17	2021-08-20T19:18:52	2021-08-20T21:18:55	2:00:03	Weather	Storm cell moved through area
Brinsmade	Substation	17	2021-09-17T00:52:00	2021-09-17T00:52:17	0:00:17	Unknown	Unknown
Brinsmade	Substation	17	2021-11-19T13:15:16	2021-11-19T13:16:18	0:01:02	Unknown	Unknown
Brinsmade_Rural	Substation	17	2021-03-12T20:06:52	2021-03-12T21:20:45	1:13:53	other	Farmers burning ditches/sloughs burnt two transmission poles.
Brinsmade_Rural	Substation	17	2021-04-30T11:45:32	2021-04-30T11:45:51	0:00:19	Unknown	Unknown
Brinsmade_Rural	Substation	17	2021-05-21T09:31:16	2021-05-21T09:31:46	0:00:30	Equip Fail Insulator	Insulator failed on 41.6kv line west of Leeds
Brinsmade_Rural	Substation	17	2021-05-21T09:32:57	2021-05-21T09:33:29	0:00:32	Equip Fail Insulator	Insulator failed on 41.6kv line west of Leeds
Brinsmade_Rural	Substation	17	2021-05-21T09:42:55	2021-05-21T09:43:01	0:00:06	Equip Fail Insulator	Insulator failed on 41.6kv line west of Leeds
Brinsmade_Rural	Substation	17	2021-05-21T09:44:25	2021-05-21T09:49:39	0:05:14	Equip Fail Insulator	Insulator failed on 41.6kv line west of Leeds
Brinsmade_Rural	Substation	17	2021-05-29T22:32:11	2021-05-29T22:32:15	0:00:04	Weather	Storm moved through. Lots of lightning
Brinsmade_Rural	Substation	17	2021-06-06T02:35:02	2021-06-06T04:31:09	1:56:07	Weather	Severe storm moved through with high winds. Broken insulators and failed breaker in SW.
Brinsmade_Rural	Substation	17	2021-06-11T03:51:51	2021-06-11T04:00:39	0:08:48	Weather	Severe Storm moved through area with high winds and lightning

Brinsmade_Rural	Substation	17	2021-06-11T10:17:23	2021-06-11T10:20:10	0:02:47	Equip Fail Insulator	Insulator tracked across and burnt pole top off on 41.6kv line
Brinsmade_Rural	Substation	17	2021-06-11T10:24:11	2021-06-11T11:07:59	0:43:48	Equip Fail Insulator	Insulator tracked across and burnt pole top off on 41.6kv line
Brinsmade_Rural	Substation	17	2021-08-02T04:35:17	2021-08-02T04:35:21	0:00:04	Unknown	Unknown
Brinsmade_Rural	Substation	17	2021-08-02T04:56:50	2021-08-02T04:56:57	0:00:07	Unknown	Unknown
Brinsmade_Rural	Substation	17	2021-08-02T04:57:33	2021-08-02T04:57:38	0:00:05	Unknown	Unknown
Brinsmade_Rural	Substation	17	2021-08-20T19:18:51	2021-08-20T21:18:50	1:59:59	Weather	Storm cell moved through area
Brinsmade_Rural	Substation	17	2021-09-17T00:52:00	2021-09-17T00:52:08	0:00:08	Unknown	Unknown
Brinsmade_Rural	Substation	17	2021-11-19T13:15:17	2021-11-19T13:16:18	0:01:01	Unknown	Unknown
Buffalo	Substation	178	2021-03-25T14:41:41	2021-03-25T14:41:49	0:00:08	Equip Fail Pole	Transmission pole sheered off by the ice on Sanborn Lake along old Hwy 10, east of Hwy 1.
Buffalo	Substation	178	2021-06-07T21:33:53	2021-06-07T21:34:00	0:00:07	Weather	Storm in the area.
Buffalo	Substation	178	2021-08-24T01:54:13	2021-08-24T01:54:19	0:00:06	Weather	Storm in the area.
Buffalo	Substation	178	2021-10-04T15:37:12	2021-10-04T15:37:39	0:00:27	Unknown	Investigated, cause unknown. SEL mileage south of Buffalo. A lot of hawk activity as crops are being harvested.
Buffalo	Substation	178	2021-12-09T23:04:44	2021-12-10T01:47:53	2:43:09	Equip Fail Substation	SEL 12.8 miles from Buffalo 345 kv sub breaker 745. Found failed PT on the 41.6 kv bay in the sub.
Buffalo	Substation	178	2021-12-15T12:29:39	2021-12-15T13:19:30	0:49:51	Equip Fail Arrester	Blown arrester caused high side cutout to crack in the Tower City Sub.
Calvin_Jct	Substation	130	2021-01-10T12:00:10	2021-01-10T12:47:48	0:47:38	Equip Fail Pole	4 poles in a row broke off due to heavy frost coupled with 25 mile an hour winds. One pole appeared rotten and another was damaged by Guy Wire attachment on 41.6kv iine rusted off and broke under cold temperatures/tension falling into the distribution.
Calvin_Jct	Substation	130	2021-01-26T09:10:25	2021-01-26T10:18:09	1:07:44	Equip Fail Other	Two Disconnects failed in the Rock Lake Substation
Calvin_Jct	Substation	130	2021-01-29T08:35:37	2021-01-29T08:36:08	0:00:31	Equip Fail Substation	Two Disconnects failed in the Rock Lake Substation
Calvin_Jct	Substation	130	2021-01-29T08:37:59	2021-01-29T08:38:12	0:00:13	Equip Fail Substation	Two Disconnects failed in the Rock Lake Substation
Calvin_Jct	Substation	130	2021-01-29T08:39:27	2021-01-29T08:39:33	0:00:06	Equip Fail Substation	Two Disconnects failed in the Rock Lake Substation
Calvin_Jct	Substation	130	2021-01-29T08:40:32	2021-01-29T08:40:44	0:00:12	Equip Fail Substation	Two Disconnects failed in the Rock Lake Substation
Calvin_Jct	Substation	130	2021-01-29T08:41:25	2021-01-29T09:16:38	0:35:13	Equip Fail Substation	Two Disconnects failed in the Rock Lake Substation
Calvin_Jct	Substation	130	2021-02-02T07:23:03	2021-02-02T07:23:12	0:00:09	Weather	Heavy Frost on the lines and wind is picking up causing momentaries
Calvin_Jct	Substation	130	2021-02-02T07:40:31	2021-02-02T07:40:40	0:00:09	Weather	Heavy Frost on the lines and wind is picking up causing momentaries
Calvin_Jct	Substation	130	2021-02-02T12:10:53	2021-02-02T12:10:59	0:00:06	Weather	Heavy frost and wind causing phases to sag and slap together on east west line sections
Calvin_Jct	Substation	130	2021-02-03T20:33:21	2021-02-03T21:06:15	0:32:54	Equip Fail Substation	Breaker that feeds towns to the south Langdon was open due to Frost and wind. When dispatched attempted to close several times, breaker Severe thunder storm with 60 - 70 mile hour wind gust broke 4 41.6kv poles off on feed to dresden jct.
Calvin_Jct	Substation	130	2021-06-05T19:15:58	2021-06-05T19:16:06	0:00:08	Weather	Severe thunder storm with 60 - 70 mile hour wind gust broke 4 41.6kv poles off on feed to dresden jct.
Calvin_Jct	Substation	130	2021-06-05T19:24:22	2021-06-05T20:59:10	1:34:48	Weather	Severe storm moved through breaking poles, cross arms, and insulators.
Calvin_Jct	Substation	130	2021-06-06T09:25:37	2021-06-06T09:26:09	0:00:32	Weather	Severe storm moved through breaking poles, cross arms, and insulators.
Calvin_Jct	Substation	130	2021-06-06T09:52:32	2021-06-06T09:59:24	0:06:52	Weather	Severe storm moved through breaking poles, cross arms, and insulators.

Calvin_Jct	Substation	130	2021-06-06T16:02:42	2021-06-06T16:58:42	0:56:00	Equip Fail Insulator	Damaged insulator from storm broke burning pole top off.
Calvin_Jct	Substation	130	2021-06-09T01:10:10	2021-06-09T01:10:21	0:00:11	Vegetation	Storm moved through breaking large tree off falling and breaking off distribution tranformer pole.
Calvin_Jct	Substation	130	2021-06-13T23:15:58	2021-06-14T00:37:56	1:21:58	Vegetation	Large cottonwood fell through distribution line
Calvin_Jct	Substation	130	2021-07-03T16:19:06	2021-07-03T18:25:30	2:06:24	Equip Fail Substation	AMB audited 8/2/21 - Storm moved through and Minnkota has issues in their 115kv Sub which is the OTP source in the area.
Calvin_Jct	Substation	130	2021-07-19T19:42:34	2021-07-19T19:42:41	0:00:07	Weather	Weather moved through the area. Lots of Momentaries - Lightning
Calvin_Jct	Substation	130	2021-08-09T09:46:56	2021-08-09T09:47:04	0:00:08	Weather	Severe storm moved through the area
Calvin_Jct	Substation	130	2021-08-09T20:48:42	2021-08-09T20:48:46	0:00:04	Weather	Severe Storm system with rotation moved through the area.
Calvin_Jct	Substation	130	2021-08-20T15:57:19	2021-08-20T15:57:23	0:00:04	Weather	Storm cell moved through area
Calvin_Jct	Substation	130	2021-08-24T07:08:42	2021-08-24T07:08:50	0:00:08	Unknown	Weather moved through the area.
Calvin_Jct	Substation	130	2021-09-17T09:13:30	2021-09-17T09:13:37	0:00:07	Equip Fail Conductor	Broken conductor on 41.6kv transmission line
Calvin_Jct	Substation	130	2021-09-17T09:25:09	2021-09-17T10:19:46	0:54:37	Equip Fail Conductor	Broken conductor on 41.6kv transmission line
Calvin_Jct	Substation	130	2021-10-14T05:20:34	2021-10-14T05:20:38	0:00:04	Vegetation	tree Branch
Calvin_Jct	Substation	130	2021-11-08T21:52:38	2021-11-08T21:52:42	0:00:04	Vehicle Accident	Truck Broke Minnkota Power Pole causing service to be lost to the area.
Calvin_Jct	Substation	130	2021-11-08T23:15:32	2021-11-08T23:17:29	0:01:57	Vehicle Accident	Truck Broke Minnkota 115kv/69kv pole causing service to be lost to the area until switching could be done to move source to the 41.6kv.
Calvin_Jct	Substation	130	2021-11-08T23:18:28	2021-11-08T23:44:55	0:26:27	Vehicle Accident	Truck Broke Minnkota 115kv/69kv pole causing service to be lost to the area until switching could be done to move source to the 41.6kv.
Calvin_Jct	Substation	130	2021-12-15T13:12:20	2021-12-15T13:12:28	0:00:08	Unknown	Unknown
Calvin_Jct	Substation	130	2021-12-15T15:21:02	2021-12-15T15:21:08	0:00:06	Unknown	Unknown
Calvin_Jct	Substation	130	2021-12-15T16:22:40	2021-12-15T16:22:45	0:00:05	Unknown	Unknown
Calvin_Jct	Substation	130	2021-12-29T02:39:10	2021-12-29T03:54:36	1:15:26	Equip Fail Conductor	Conductor on 41.6 broke in the extreme cold. 27 below.
Carbury	Substation	1	2021-04-11T23:21:54	2021-04-11T23:23:28	0:01:34	Equip Fail Pole	Blink caused by the pole that caught fire between Landa and Roth
Carbury	Substation	1	2021-07-06T13:16:09	2021-07-06T13:24:19	0:08:10	other	Sub Tech inadvertently caused outage again.
Carbury	Substation	1	2021-07-07T11:04:59	2021-07-07T11:06:10	0:01:11	other	Sub tech inadvertently caused a momentary outage.
Carbury	Substation	1	2021-07-18T01:49:10	2021-07-18T01:49:16	0:00:06	Animal	SRep could not find anything, but they believe it's animal related.
Carbury	Substation	1	2021-07-20T00:53:51	2021-07-20T00:54:54	0:01:03	Animal	SRep could not find exact cause, but believe it was an animal caused outage.
Carbury	Substation	1	2021-07-20T01:16:15	2021-07-20T01:16:21	0:00:06	Animal	SRep could not find anything, but they believe it's animal related.
Carbury	Substation	1	2021-08-09T17:44:54	2021-08-09T17:45:00	0:00:06	Lightning	storm came through causing Lightning, Hail and rain
Carbury	Substation	1	2021-08-16T13:12:30	2021-08-16T13:12:37	0:00:07	Unknown	SRep did not have a reason for the blink. Did not find anything when patrolling.
Carbury	Substation	1	2021-09-20T19:47:12	2021-09-20T19:47:18	0:00:06	Equip Fail Fuse unknown cause	Blink caused by blown fuse on same feeder.
Carrington_North_EastFeeder	Feeder	54	2021-02-02T18:10:37	2021-02-02T18:10:53	0:00:16	Weather	Heavy frost on the conductors caused momentary and sustained outages when the wind blew..

Carrington_North_EastFeeder	Feeder	54	2021-02-02T19:30:04	2021-02-02T19:30:13	0:00:09	Weather	Heavy frost on the conductors caused momentary and sustained outages when the wind blew..
Carrington_North_EastFeeder	Feeder	54	2021-05-05T03:29:36	2021-05-05T03:29:53	0:00:17	Equip Fail Cutout	Failed cutout caused phase to burn down.
Carrington_North_EastFeeder	Feeder	54	2021-08-31T12:37:04	2021-08-31T12:55:29	0:18:25	Bird	Bird caused phase to phase fault in the sub and damaged the OCR in the North sub.
Carrington_North_EastFeeder	Feeder	54	2021-10-07T16:26:41	2021-10-07T16:26:49	0:00:08	Unknown	Investigated, but cause unknown.
Carrington_North_EastFeeder	Feeder	54	2021-11-16T16:33:29	2021-11-16T16:33:37	0:00:08	Unknown	Unknown and not investigated.
Carrington_South	Substation	455	2021-02-03T10:28:16	2021-02-03T10:28:35	0:00:19	Weather	Heavy frost on the conductors caused momentary and sustained outages when the wind blew..
Carrington_South	Substation	455	2021-02-03T16:30:30	2021-02-03T16:31:11	0:00:41	Weather	Heavy frost on the conductors caused momentary and sustained outages when the wind blew..
Carrington_South	Substation	455	2021-02-03T16:33:58	2021-02-03T16:34:21	0:00:23	Weather	Heavy frost on the conductors caused momentary and sustained outages when the wind blew..
Carrington_South	Substation	455	2021-02-03T18:22:55	2021-02-03T18:23:15	0:00:20	Weather	Heavy frost on the conductors caused momentary and sustained outages when the wind blew..
Carrington_South	Substation	455	2021-02-03T18:28:04	2021-02-03T18:28:22	0:00:18	Weather	Heavy frost on the conductors caused momentary and sustained outages when the wind blew..
Carrington_South	Substation	455	2021-02-24T15:46:53	2021-02-24T15:51:57	0:05:04	Equip Fail Pole	Burned pole due to an insulator tracking 1.5 miles north of Kensal.
Carrington_South	Substation	455	2021-03-02T07:52:21	2021-03-02T07:53:07	0:00:46	other	Interruption occurred when attempting to switch transmission line due to higher load flow than what the switch could break.
Carrington_South	Substation	455	2021-03-30T00:22:27	2021-03-30T00:26:59	0:04:32	Equip Fail Conductor	Broken conductor, broken crossarms, broken insulators between Bordulac to Kensal due to strong winds. Line switched out for the night.
Carrington_South	Substation	455	2021-04-01T05:49:29	2021-04-01T05:50:37	0:01:08	Unknown	Unknown and not investigated.
Carrington_South_WestFeeder	Feeder	151	2021-08-31T12:59:41	2021-08-31T13:00:08	0:00:27	Bird	Bird caused phase to phase fault in the sub and damaged the OCR in the North sub.
Casselton_115	Substation	1	2021-06-02T13:30:48	2021-06-02T13:31:40	0:00:52		
Casselton_115	Substation	1	2021-06-02T13:45:38	2021-06-02T13:45:50	0:00:12		
Casselton_115	Substation	1	2021-06-02T14:04:25	2021-06-02T14:09:40	0:05:15		
Casselton_NEFeeder	Feeder	103	2021-01-13T10:22:25	2021-01-13T11:02:34	0:40:09	Animal	Squirrel in the line caused outage.
Casselton_NEFeeder	Feeder	290	2021-06-04T21:12:27	2021-06-04T21:56:43	0:44:16	Weather	Storms traveled through the area with winds heavy rain and lots of lightning.
Casselton_NEFeeder	Feeder	290	2021-06-07T21:59:02	2021-06-07T21:59:16	0:00:14	Weather	Storms traveled through the area with winds heavy rain and lots of lightning.
Casselton_NEFeeder	Feeder	290	2021-06-07T22:00:09	2021-06-07T22:03:18	0:03:09	Weather	Storms traveled through the area with winds heavy rain and lots of lightning.
Casselton_NEFeeder	Feeder	290	2021-06-27T07:12:57	2021-06-27T07:13:13	0:00:16	Equip Fail Cutout	Found bad cutout with pole top burnt off.
Casselton_NEFeeder	Feeder	289	2021-08-26T03:54:57	2021-08-26T03:55:19	0:00:22	Weather	Strong storms with lightning and strong winds caused numerous outages.
Casselton_NEFeeder	Feeder	289	2021-09-25T10:34:39	2021-09-25T10:34:56	0:00:17	Unknown	No customer calls
Casselton_NEFeeder	Feeder	290	2021-10-20T15:12:44	2021-10-20T15:12:56	0:00:12	Equip Fail Conductor	Splice failed and conductor hit the ground.
Casselton_NEFeeder	Feeder	289	2021-12-07T10:53:29	2021-12-07T10:54:33	0:01:04	Vehicle Accident	KPH made contact with our 41.6 line while doing backhoe work causing breaker to trip.
Casselton_NWFeeder	Feeder	304	2021-04-11T18:56:31	2021-04-11T18:56:36	0:00:05	Equip Fail Conductor	Jumper was burning off at customer tap.
Casselton_NWFeeder	Feeder	304	2021-06-07T21:59:08	2021-06-07T21:59:16	0:00:08	Weather	Storms traveled through the area with winds heavy rain and lots of lightning.

Casselton_NWFeeder	Feeder	304	2021-06-07T22:00:07	2021-06-07T22:03:19	0:03:12	Weather	Storms traveled through the area with winds heavy rain and lots of lightning.
Casselton_NWFeeder	Feeder	304	2021-08-19T03:03:01	2021-08-19T03:03:10	0:00:09	Equip Fail Underground	UG fault
Casselton_NWFeeder	Feeder	304	2021-08-19T04:02:23	2021-08-19T04:02:29	0:00:06	Equip Fail Underground	UG fault
Casselton_NWFeeder	Feeder	304	2021-08-26T03:55:10	2021-08-26T03:55:17	0:00:07	Weather	Strong storms with lightning and strong winds caused numerous outages.
Casselton_NWFeeder	Feeder	304	2021-10-20T15:12:44	2021-10-20T15:12:50	0:00:06	Equip Fail Conductor	Splice failed and conductor hit the ground.
Casselton_NWFeeder	Feeder	304	2021-11-04T09:36:55	2021-11-04T09:51:07	0:14:12	Planned	Outage was caused by cut over on a new service.
Casselton_NWFeeder	Feeder	304	2021-12-07T10:53:45	2021-12-07T10:53:51	0:00:06	Vehicle Accident	KPH made contact with our 41.6 line while doing backhoe work causing breaker to trip.
Casselton_RuralFeeder	Feeder	22	2021-06-07T21:58:52	2021-06-07T21:59:18	0:00:26	Weather	Storms traveled through the area with winds heavy rain and lots of lightning.
Casselton_RuralFeeder	Feeder	22	2021-06-07T21:59:53	2021-06-07T22:03:21	0:03:28	Weather	Storms traveled through the area with winds heavy rain and lots of lightning.
Casselton_RuralFeeder	Feeder	22	2021-08-26T03:54:50	2021-08-26T03:54:59	0:00:09	Weather	Strong storms with lightning and strong winds caused numerous outages.
Casselton_RuralFeeder	Feeder	22	2021-10-20T15:12:41	2021-10-20T15:12:48	0:00:07	Equip Fail Conductor	Splice failed and conductor hit the ground.
Casselton_RuralFeeder	Feeder	22	2021-12-07T10:53:36	2021-12-07T10:53:51	0:00:15	Vehicle Accident	KPH made contact with our 41.6 line while doing backhoe work causing breaker to trip.
Cathay	Substation	52	2021-02-02T15:47:18	2021-02-02T15:47:40	0:00:22	Weather	Heavy frost on the conductors caused momentary and sustained outages when the wind blew..
Cathay	Substation	52	2021-02-22T15:24:27	2021-02-22T16:01:22	0:36:55	Equip Fail Pole	Burned pole due to an insulator tracking 1.5 miles east of Sykeston.
Cathay	Substation	52	2021-04-14T11:22:26	2021-04-14T11:25:30	0:03:04	Equip Fail Other	Switch 756 center phase arcing horn burned and ready to break off. Outage due to switching.
Cathay	Substation	14	2021-08-22T22:37:52	2021-08-22T22:39:13	0:01:21	Animal	Raccoon got into the regulator bypass and jumpers causing blown high side fuse.
Cathay	Substation	52	2021-10-26T09:00:17	2021-10-26T10:32:51	1:32:34	Equip Fail Substation	Replaced failed regulator bypasses in Cathay sub.
Cathay	Substation	52	2021-10-27T15:20:16	2021-10-27T15:20:20	0:00:04	Bird	SEL. 3.1 miles from Carrington. Bird got between phase and grounded pole top bracket.
Cathay	Substation	52	2021-10-27T17:46:26	2021-10-27T17:46:32	0:00:06	Unknown	Patrolled line but no interruption cause found. Suspect bird activity.
Cathay_Rural	Substation	3	2021-02-02T15:47:21	2021-02-02T15:47:30	0:00:09	Weather	Heavy frost on the conductors caused momentary and sustained outages when the wind blew..
Cathay_Rural	Substation	3	2021-02-22T15:24:38	2021-02-22T16:01:31	0:36:53	Equip Fail Pole	Burned pole due to an insulator tracking 1.5 miles east of Sykeston.
Cathay_Rural	Substation	3	2021-04-14T11:22:47	2021-04-14T11:25:55	0:03:08	Equip Fail Other	Switch 756 center phase arcing horn burned and ready to break off. Outage due to switching.
Cathay_Rural	Substation	3	2021-10-27T15:20:17	2021-10-27T15:20:21	0:00:04	Bird	SEL. 3.1 miles from Carrington. Bird got between phase and grounded pole top bracket.
Cathay_Rural	Substation	3	2021-10-27T17:46:26	2021-10-27T17:46:33	0:00:07	Unknown	Patrolled line but no interruption cause found. Suspect bird activity.
Cayuga	Substation	8	2021-07-23T23:47:31	2021-07-24T01:01:05	1:13:34	Weather	Thunder storm with lots of lightning. 2 broken cross arms near Brampton had to be replaced.
Cayuga	Substation	8	2021-08-26T11:11:52	2021-08-26T11:12:02	0:00:10	Weather	Strong storms with lightning and strong winds caused numerous outages.
Cayuga	Substation	8	2021-08-29T13:30:42	2021-08-29T13:30:52	0:00:10	Unknown	Lines will be patrolled lots of birds in the area i will update if cause is found.
Cemetary_Riser_FeederSection	FeederSection	11	2021-06-17T07:40:18	2021-06-17T07:40:46	0:00:28	Animal	Bird in a transformer
Cemetary_Riser_FeederSection	FeederSection	1	2021-09-15T13:10:12	2021-09-15T13:10:30	0:00:18	Planned	UG cut over to new cable

Cemetary_Riser_FeederSection	FeederSection	1	2021-09-17T09:05:39	2021-09-17T11:52:09	2:46:30	Planned	UG cut over to new cable
Cemetary_Riser_FeederSection	FeederSection	9	2021-09-17T17:06:22	2021-09-17T17:06:28	0:00:06	Vehicle Accident	Farmer tore down 41.6 kva line west of Wahpeton
Cemetary_Riser_FeederSection	FeederSection	9	2021-09-22T08:47:07	2021-09-22T11:00:14	2:13:07	Planned	Cut over to new UG
Cemetary_Riser_FeederSection	FeederSection	1	2021-09-23T14:11:16	2021-09-23T14:11:31	0:00:15	Planned	Switching back after work was completed.
Christine	Substation	80	2021-01-15T10:14:26	2021-01-15T10:14:44	0:00:18	Weather	We had heavy frost and some ice along with strong winds and lines were galloping.
Christine	Substation	80	2021-07-11T04:10:19	2021-07-11T05:33:29	1:23:10	Equip Fail Arrester	High Side arrester was blown in Christine Sub. line was patrolled and nothing was found.
Christine	Substation	80	2021-07-24T00:58:02	2021-07-24T00:58:13	0:00:11	Weather	Strong thunder storms in the whole area, had to isolate and restore by areas. Christine sub had damage so it took longer to restore that town.
Christine	Substation	80	2021-07-24T01:32:55	2021-07-24T05:27:30	3:54:35	Weather	AMB audited 7/27/21 - Strong thunder storms in the whole area, had to isolate and restore by areas. Christine sub had damage so it took
Christine	Substation	80	2021-08-24T02:44:12	2021-08-24T02:44:22	0:00:10	Weather	Thunder storms in the area with a lot of lightning and strong winds.
Christine	Substation	80	2021-08-24T03:58:46	2021-08-24T03:58:56	0:00:10	Weather	Thunder storms in the area with a lot of lightning and strong winds.
Christine	Substation	80	2021-09-19T21:22:05	2021-09-19T21:22:12	0:00:07	Equip Fail Insulator	Cracked insulator was allowing tracking to the cross arm.
Churchs_Ferry	Substation	11	2021-03-12T20:06:40	2021-03-12T20:41:17	0:34:37	other	Farmers burning ditches/sloughs burnt two transmission poles.
Churchs_Ferry	Substation	11	2021-04-30T11:45:29	2021-04-30T11:45:38	0:00:09	Unknown	Unknown
Churchs_Ferry	Substation	11	2021-05-21T09:31:02	2021-05-21T09:31:48	0:00:46	Equip Fail Insulator	Insulator failed on 41.6kv line west of Leeds
Churchs_Ferry	Substation	11	2021-05-21T09:32:44	2021-05-21T09:33:32	0:00:48	Equip Fail Insulator	Insulator failed on 41.6kv line west of Leeds
Churchs_Ferry	Substation	11	2021-05-21T09:42:42	2021-05-21T09:43:04	0:00:22	Equip Fail Insulator	Insulator failed on 41.6kv line west of Leeds
Churchs_Ferry	Substation	11	2021-05-21T09:44:09	2021-05-21T09:49:42	0:05:33	Equip Fail Insulator	Insulator failed on 41.6kv line west of Leeds
Churchs_Ferry	Substation	11	2021-05-29T22:32:12	2021-05-29T22:32:22	0:00:10	Weather	Storm moved through - Lots of Lightning
Churchs_Ferry	Substation	11	2021-06-06T02:35:02	2021-06-06T03:34:39	0:59:37	Weather	Severe storm moved through with high winds. Broken insulators and failed breaker in SW.
Churchs_Ferry	Substation	11	2021-06-11T03:51:54	2021-06-11T04:00:47	0:08:53	Weather	Severe weather moved through the area with high winds and lightning
Churchs_Ferry	Substation	11	2021-06-11T10:17:25	2021-06-11T10:20:18	0:02:53	Equip Fail Insulator	Insulator tracked across and burnt pole top off on 41.6kv line
Churchs_Ferry	Substation	11	2021-06-11T10:24:13	2021-06-11T11:08:07	0:43:54	Equip Fail Insulator	Insulator tracked across and burnt pole top off on 41.6kv line
Churchs_Ferry	Substation	11	2021-08-02T04:35:16	2021-08-02T04:35:29	0:00:13	Unknown	Unknown
Churchs_Ferry	Substation	11	2021-08-02T04:56:52	2021-08-02T04:57:05	0:00:13	Unknown	Unknown
Churchs_Ferry	Substation	11	2021-08-02T04:57:36	2021-08-02T04:57:47	0:00:11	Unknown	Unknown
Churchs_Ferry	Substation	11	2021-08-20T19:18:39	2021-08-20T21:18:54	2:00:15	Weather	Storm cell moved through area
Churchs_Ferry	Substation	11	2021-09-17T00:52:10	2021-09-17T00:52:20	0:00:10	Unknown	Unknown
Churchs_Ferry	Substation	11	2021-11-19T13:15:22	2021-11-19T13:15:34	0:00:12	Unknown	Unknown
Cleveland	Substation	94	2021-02-01T13:56:33	2021-02-01T13:56:39	0:00:06	Weather	Heavy frost on the conductors caused momentary and sustained outages when the wind blew..

Cleveland	Substation	94	2021-02-01T15:03:17	2021-02-01T15:03:25	0:00:08	Weather	Heavy frost on the conductors caused momentary and sustained outages when the wind blew..
Cleveland	Substation	94	2021-02-02T07:26:51	2021-02-02T07:27:01	0:00:10	Equip Fail Conductor	Heavy frost on the conductors broke a CPEC line in the Gackle area.
Cleveland	Substation	94	2021-02-02T19:02:36	2021-02-02T19:03:10	0:00:34	Weather	Heavy frost on the conductors caused momentary and sustained outages when the wind blew..
Cleveland	Substation	94	2021-02-02T19:04:57	2021-02-02T19:17:22	0:12:25	Weather	Heavy frost on the conductors caused momentary and sustained outages when the wind blew..
Cleveland	Substation	94	2021-02-03T00:27:11	2021-02-03T00:29:07	0:01:56	Weather	Heavy frost on the conductors caused momentary and sustained outages when the wind blew..
Cleveland	Substation	94	2021-02-03T00:32:36	2021-02-03T00:32:50	0:00:14	Weather	Heavy frost on the conductors caused momentary and sustained outages when the wind blew..
Cleveland	Substation	94	2021-02-03T07:34:22	2021-02-03T07:34:28	0:00:06	Weather	Heavy frost on the conductors caused momentary and sustained outages when the wind blew..
Cleveland	Substation	94	2021-02-03T08:38:39	2021-02-03T08:38:47	0:00:08	Weather	Heavy frost on the conductors caused momentary and sustained outages when the wind blew..
Cleveland	Substation	94	2021-02-03T11:03:31	2021-02-03T11:03:41	0:00:10	Weather	Heavy frost on the conductors caused momentary and sustained outages when the wind blew..
Cleveland	Substation	94	2021-02-03T12:31:22	2021-02-03T12:42:11	0:10:49	Weather	Heavy frost on the conductors caused momentary and sustained outages when the wind blew..
Cleveland	Substation	94	2021-02-03T15:56:15	2021-02-03T16:51:29	0:55:14	Weather	Heavy frost on the conductors caused momentary and sustained outages when the wind blew..
Cleveland	Substation	94	2021-02-03T16:52:29	2021-02-03T16:56:35	0:04:06	Weather	Heavy frost on the conductors caused momentary and sustained outages when the wind blew..
Cleveland	Substation	94	2021-02-03T17:31:53	2021-02-03T19:01:52	1:29:59	Weather	Heavy frost on the conductors caused momentary and sustained outages when the wind blew..
Cleveland	Substation	94	2021-02-03T19:12:33	2021-02-03T19:12:45	0:00:12	Weather	Heavy frost on the conductors caused momentary and sustained outages when the wind blew..
Cleveland	Substation	94	2021-05-19T23:37:35	2021-05-19T23:59:33	1:21:58	Equip Fail Conductor	AMB audited 5/25/21 - Broken center phase mid span on transmission line approximately 1.25 miles west of Windsor I-94 exit.
Cleveland	Substation	94	2021-06-04T20:09:03	2021-06-04T20:09:11	0:00:08	Weather	Storm in the area.
Cleveland	Substation	94	2021-06-07T18:48:16	2021-06-07T18:48:22	0:00:06	Weather	Storm in the area.
Cleveland	Substation	94	2021-06-08T01:46:42	2021-06-08T01:46:51	0:00:09	Weather	Storm in the area.
Cleveland	Substation	94	2021-06-08T09:29:42	2021-06-08T09:29:46	0:00:04	Weather	Storm in the area.
Cleveland	Substation	94	2021-09-25T09:55:04	2021-09-25T09:55:11	0:00:07	Unknown	Unknown and not investigated. No SEL data.
Cogswell	Substation	73	2021-06-11T04:16:23	2021-06-11T05:58:42	1:42:19	Weather	Storm in the area.
Colgate_ColgateFeeder	Feeder	31	2021-05-01T09:04:07	2021-05-01T09:04:38	0:00:31	Unknown	SEL is 13.0 miles from Buffalo 745. Patrolled but cause not known.
Colgate_ColgateFeeder	Feeder	31	2021-12-09T23:04:44	2021-12-10T00:42:02	1:37:18	Equip Fail Substation	SEL 12.8 miles from Buffalo 345 kv sub breaker 745. Found failed PT on the 41.6 kv bay in the sub.
College_VFI_FeederSection	FeederSection	6	2021-07-28T03:36:31	2021-07-28T04:54:31	1:18:00	Weather	Lightning strike between 1st and 2nd Street on the 300 block caused damage to arrestor.
Cooperstown	Substation	1145	2021-01-30T03:16:06	2021-01-30T03:21:29	0:05:23	Equip Fail Pole	Transmission pole top broke off. Pole had been damaged by lightning years earlier.
Cooperstown	Substation	1145	2021-02-02T20:17:55	2021-02-02T20:18:49	0:00:54		
Cooperstown	Substation	1145	2021-02-03T20:19:28	2021-02-03T20:20:22	0:00:54		
Cooperstown	Substation	1128	2021-02-03T21:45:24	2021-02-03T21:46:19	0:00:55		
Cooperstown	Substation	1128	2021-02-03T22:24:24	2021-02-03T22:25:19	0:00:55		

Cooperstown	Substation	1145	2021-02-03T23:46:27	2021-02-03T23:47:23	0:00:56		
Cooperstown	Substation	1145	2021-02-04T00:32:22	2021-02-04T00:33:31	0:01:09		
Cooperstown	Substation	1145	2021-02-04T00:36:24	2021-02-04T00:37:30	0:01:06	Weather	Heavy frost on the conductors caused momentary and sustained outages when the wind blew..
Cooperstown	Substation	1099	2021-04-14T21:52:57	2021-04-14T21:54:01	0:01:04	Unknown	Interruption put location closer to Cooperstown. Line patrolled. Nothing found.
Cooperstown	Substation	1136	2021-05-02T13:11:01	2021-05-02T13:11:57	0:00:56	Unknown	SEL is 2.5 miles north of Sanborn. Patrolled but cause not known.
Cooperstown	Substation	1145	2021-05-19T19:27:15	2021-05-19T19:28:26	0:01:11	Weather	Thunderstorms and lightning in the area.
Cooperstown	Substation	1145	2021-07-26T08:52:26	2021-07-26T08:53:28	0:01:02	Equip Fail Insulator	Squirrel made contact in the sub and caused damage to a bus insulator.
Cooperstown	Substation	1145	2021-07-27T05:29:03	2021-07-27T05:43:28	0:14:25	Planned	Planned outage in Cooperstown sub to replace blown arrester.
Cooperstown	Substation	1145	2021-09-02T19:43:19	2021-09-02T19:44:29	0:01:10	Weather	Rain/lightning in the area.
Cooperstown	Substation	1145	2021-10-05T08:36:24	2021-10-05T08:37:27	0:01:03	Unknown	Investigated but cause unknown. SEL mileage by Sanborn.
Cooperstown_NorthFeeder	Feeder	606	2021-03-30T02:17:16	2021-03-30T02:17:27	0:00:11	Unknown	Unknown and not investigated. Strong winds in the area.
Cooperstown_NorthFeeder	Feeder	606	2021-06-14T07:26:38	2021-06-14T07:26:46	0:00:08	Weather	Storm in the area.
Cooperstown_NorthFeeder	Feeder	606	2021-07-01T21:26:25	2021-07-01T21:26:29	0:00:04	Equip Fail Transformer	Replace failed overhead transformer.
Cooperstown_NorthFeeder	Feeder	606	2021-07-14T12:14:14	2021-07-14T12:14:19	0:00:05	Animal	Blown fuse west of the OTP shop.
Cooperstown_NorthFeeder	Feeder	606	2021-09-20T03:29:48	2021-09-20T03:29:52	0:00:04	Equip Fail Cutout	Broken cutout.
Cooperstown_NorthFeeder	Feeder	606	2021-09-20T03:30:25	2021-09-20T03:30:55	0:00:30	Equip Fail Cutout	Broken cutout.
Cottonwood_Ct_Tap_FeederSection	FeederSection	21	2021-07-14T11:24:01	2021-07-14T11:24:09	0:00:08		
Courtenay_Wimbleton	Substation	230	2021-02-03T16:30:28	2021-02-03T16:31:13	0:00:45	Weather	Heavy frost on the conductors caused momentary and sustained outages when the wind blew..
Courtenay_Wimbleton	Substation	239	2021-02-03T16:33:56	2021-02-03T16:34:22	0:00:26	Weather	Heavy frost on the conductors caused momentary and sustained outages when the wind blew..
Courtenay_Wimbleton	Substation	251	2021-02-03T18:22:55	2021-02-03T18:23:17	0:00:22	Weather	Heavy frost on the conductors caused momentary and sustained outages when the wind blew..
Courtenay_Wimbleton	Substation	240	2021-02-03T18:28:02	2021-02-03T18:28:24	0:00:22	Weather	Heavy frost on the conductors caused momentary and sustained outages when the wind blew..
Courtenay_Wimbleton	Substation	238	2021-02-24T15:46:54	2021-02-24T15:52:33	0:05:39	Equip Fail Pole	Burned pole due to an insulator tracking 1.5 miles north of Kensal.
Courtenay_Wimbleton	Substation	250	2021-03-02T07:52:23	2021-03-02T07:52:48	0:00:25	other	Interruption occurred when attempting to switch transmission line due to higher load flow than what the switch could break.
Courtenay_Wimbleton	Substation	228	2021-03-30T00:22:26	2021-03-30T00:26:07	0:03:41	Equip Fail Conductor	Broken conductor, broken crossarms, broken insulators between Bordulac to Kensal due to strong winds. Line switched out for the night.
Courtenay_Wimbleton	Substation	241	2021-03-30T02:52:56	2021-03-30T06:54:21	4:01:25	Equip Fail Insulator	AMB audited 4/27/21: Broken insulator 5 spans south of Courtenay Jct caused pole to burn. Line was already switched out from Bordulac to Unknown and not investigated.
Courtenay_Wimbleton	Substation	239	2021-04-01T05:49:24	2021-04-01T05:50:35	0:01:11	Unknown	
Courtenay_Wimbleton_MainFeeder	Feeder	49	2021-02-03T10:28:15	2021-02-03T10:28:37	0:00:22	Weather	AMB audited 2/26/21 - Heavy frost on the conductors caused momentary and sustained outages when the wind blew..
Courtenay_Wimbleton_MainFeeder	Feeder	28	2021-04-30T14:40:13	2021-04-30T14:40:19	0:00:06	Unknown	SEL is 13.0 miles from Buffalo 745. Patrolled but cause not known.
Courtenay_Wimbleton_WimbletonFeeder	Feeder	197	2021-01-29T18:18:52	2021-01-29T19:09:07	0:50:15	Equip Fail Conductor	Splice failed causing downed conductor in town.

Courtenay_Wimbledon_WimbledonFeeder	Feeder	199	2021-02-03T08:18:37	2021-02-03T11:33:19	3:14:42	Weather	AMB audited 2/26/21 - Heavy frost on the conductors caused momentary and sustained outages when the wind blew..
Courtenay_Wimbledon_WimbledonFeeder	Feeder	19	2021-02-03T16:30:31	2021-02-03T16:31:14	0:00:43	Weather	Heavy frost on the conductors caused momentary and sustained outages when the wind blew..
Courtenay_Wimbledon_WimbledonFeeder	Feeder	7	2021-02-03T16:34:11	2021-02-03T16:34:24	0:00:13	Weather	Heavy frost on the conductors caused momentary and sustained outages when the wind blew..
Courtenay_Wimbledon_WimbledonFeeder	Feeder	26	2021-02-03T18:22:55	2021-02-03T18:23:19	0:00:24	Weather	Heavy frost on the conductors caused momentary and sustained outages when the wind blew..
Courtenay_Wimbledon_WimbledonFeeder	Feeder	5	2021-02-03T18:28:19	2021-02-03T18:28:26	0:00:07	Weather	Heavy frost on the conductors caused momentary and sustained outages when the wind blew..
Courtenay_Wimbledon_WimbledonFeeder	Feeder	8	2021-02-24T15:46:59	2021-02-24T15:52:23	0:05:24	Equip Fail Pole	Burned pole due to an insulator tracking 1.5 miles north of Kensal.
Courtenay_Wimbledon_WimbledonFeeder	Feeder	26	2021-03-02T07:52:23	2021-03-02T07:52:49	0:00:26	other	Interruption occurred when attempting to switch transmission line due to higher load flow than what the switch could break.
Courtenay_Wimbledon_WimbledonFeeder	Feeder	20	2021-03-30T00:22:25	2021-03-30T00:25:55	0:03:30	Equip Fail Conductor	Broken conductor, broken crossarms, broken insulators between Bordulac to Kensal due to strong winds. Line switched out for the night.
Courtenay_Wimbledon_WimbledonFeeder	Feeder	8	2021-03-30T02:53:07	2021-03-30T06:54:08	4:01:01	Equip Fail Insulator	AMB audited 4/27/21: Broken insulator 5 spans south of Courtenay Jct caused pole to burn. Line was already switched out from Bordulac to
Courtenay_Wimbledon_WimbledonFeeder	Feeder	7	2021-04-01T05:49:29	2021-04-01T05:50:36	0:01:07	Unknown	Unknown and not investigated.
Courtenay_Wimbledon_WimbledonFeeder	Feeder	195	2021-06-20T14:28:01	2021-06-20T15:58:25	1:30:24	Equip Fail Arrester	Blown arrester on Out St.
Courtenay_Wimbledon_WimbledonFeeder	Feeder	199	2021-06-20T17:16:12	2021-06-20T20:40:29	3:24:17	Equip Fail Arrester	AMB audited 8/2/21 - 2 blown arresters on power bank at the elevator.
Crary	Substation	65	2021-02-02T17:28:45	2021-02-02T18:21:43	0:52:58	Weather	Heavy Frost with windy conditions causing phases to sag and slap together
Crary	Substation	65	2021-02-02T19:15:14	2021-02-02T20:04:23	0:49:09	Weather	Heavy Frost with windy conditions causing phases to sag and slap together
Crary	Substation	65	2021-05-17T14:52:52	2021-05-17T14:52:56	0:00:04	other	Switch flashed over due to loading when dispatch opened it.
Crary	Substation	65	2021-05-29T17:27:30	2021-05-29T17:45:44	0:18:14	Equip Fail Insulator	Pole Top insulator failed causing top of pole to burn off.
Crary	Substation	65	2021-06-26T17:03:59	2021-06-26T17:04:02	0:00:03	Unknown	Unknown
Crary	Substation	65	2021-06-27T16:03:08	2021-06-27T16:03:14	0:00:06	Unknown	Unknown
Crary	Substation	65	2021-07-19T19:59:56	2021-07-19T20:00:03	0:00:07	Weather	Weather moved through the area. Lots of Momentaries - Lightning
Crary	Substation	65	2021-07-26T09:11:07	2021-07-26T09:11:13	0:00:06	Planned	Contractor work on replacing 41.6kv line - switching and work.
Crary	Substation	65	2021-08-20T08:04:59	2021-08-20T08:05:03	0:00:04	Unknown	Unknown
Crary	Substation	65	2021-08-27T10:57:35	2021-08-27T10:57:51	0:00:16	Unknown	Unknown. Weather moved through the area
Crary	Substation	65	2021-09-20T17:06:17	2021-09-20T17:06:24	0:00:07	Unknown	Unknown
Davenport	Substation	142	2021-06-07T21:59:04	2021-06-07T21:59:16	0:00:12	Weather	Storms traveled through the area with winds heavy rain and lots of lightning.
Davenport	Substation	142	2021-07-24T00:57:58	2021-07-24T00:58:11	0:00:13	Weather	Strong thunder storms in the whole area, had to isolate and restore by areas. Christine sub had damage so it took longer to restore that town.
Davenport	Substation	142	2021-07-24T01:32:52	2021-07-24T02:52:52	1:20:00	Weather	Strong thunder storms in the whole area, had to isolate and restore by areas. Christine sub had damage so it took longer to restore that town.
Davenport	Substation	142	2021-08-26T03:55:02	2021-08-26T03:55:14	0:00:12	Weather	Strong storms with lightning and strong winds caused numerous outages.
Davenport	Substation	27	2021-10-20T15:12:44	2021-10-20T15:12:50	0:00:06	Unknown	Line was patrolled and nothing was found
Davenport	Substation	115	2021-10-20T15:12:51	2021-10-20T15:12:59	0:00:08	Unknown	Line was patrolled and nothing was found

Davenport	Substation	142	2021-12-07T10:53:33	2021-12-07T10:53:51	0:00:18	Vehicle Accident	KPH made contact with our 41.6 line while doing backhoe work causing breaker to trip.
Dazey	Substation	66	2021-01-30T03:16:06	2021-01-30T03:57:01	0:40:55	Equip Fail Pole	Transmission pole top broke off. Pole had been damaged by lightning years earlier.
Dazey	Substation	66	2021-02-02T20:17:54	2021-02-02T20:18:08	0:00:14	Weather	Heavy frost on the conductors caused momentary and sustained outages when the wind blew..
Dazey	Substation	66	2021-02-03T20:19:28	2021-02-03T20:19:46	0:00:18	Weather	Heavy frost on the conductors caused momentary and sustained outages when the wind blew..
Dazey	Substation	66	2021-02-03T21:45:24	2021-02-03T21:45:43	0:00:19	Weather	Heavy frost on the conductors caused momentary and sustained outages when the wind blew..
Dazey	Substation	66	2021-02-03T22:24:24	2021-02-03T22:24:43	0:00:19	Weather	Heavy frost on the conductors caused momentary and sustained outages when the wind blew..
Dazey	Substation	66	2021-02-03T23:46:27	2021-02-03T23:46:47	0:00:20	Weather	Heavy frost on the conductors caused momentary and sustained outages when the wind blew..
Dazey	Substation	66	2021-02-04T00:32:22	2021-02-04T00:33:17	0:00:55	Weather	Heavy frost on the conductors caused momentary and sustained outages when the wind blew..
Dazey	Substation	66	2021-02-04T00:36:27	2021-02-04T00:36:42	0:00:15	Weather	Heavy frost on the conductors caused momentary and sustained outages when the wind blew..
Dazey	Substation	66	2021-02-05T14:24:32	2021-02-05T14:25:47	0:01:15	Planned	Outage needed to switch transmission line. A failed insulator needed to be replaced between Hannaford and Walum.
Dazey	Substation	66	2021-04-14T21:53:03	2021-04-14T21:53:13	0:00:10	Unknown	Interruption put location closer to Cooperstown. Line patrolled. Nothing found.
Dazey	Substation	66	2021-05-02T13:11:07	2021-05-02T13:11:18	0:00:11	Unknown	SEL is 2.5 miles north of Sanborn. Patrolled but cause not known.
Dazey	Substation	66	2021-05-19T19:27:15	2021-05-19T19:27:50	0:00:35	Weather	Thunderstorms and lightning in the area.
Dazey	Substation	66	2021-05-24T15:24:16	2021-05-24T15:24:28	0:00:12	Equip Fail Insulator	Broken transmission insulator approximately 1 mile north of Cooperstown in the slough.
Dazey	Substation	66	2021-05-24T15:25:09	2021-05-24T15:31:41	0:06:32	Equip Fail Insulator	Broken transmission insulator approximately 1 mile north of Cooperstown in the slough.
Dazey	Substation	66	2021-07-19T13:22:53	2021-07-19T13:23:44	0:00:51	Weather	Storm in the Finley area tripped Pickert 925.
Dazey	Substation	36	2021-07-26T08:52:32	2021-07-26T08:52:40	0:00:08	Equip Fail Insulator	Squirrel made contact in the sub and caused damage to a bus insulator.
Dazey	Substation	30	2021-07-26T08:52:43	2021-07-26T08:52:54	0:00:11	Equip Fail Insulator	Squirrel made contact in the sub and caused damage to a bus insulator.
Dazey	Substation	66	2021-09-02T19:43:25	2021-09-02T19:43:35	0:00:10	Weather	Rain/lightning in the area.
Dazey	Substation	66	2021-10-05T08:36:26	2021-10-05T08:36:38	0:00:12	Unknown	Investigated but cause unknown. SEL mileage by Sanborn.
Dazey_Farms	Substation	21	2021-01-30T03:16:06	2021-01-30T03:57:08	0:41:02	Equip Fail Pole	Transmission pole top broke off. Pole had been damaged by lightning years earlier.
Dazey_Farms	Substation	21	2021-02-02T20:17:54	2021-02-02T20:18:15	0:00:21	Weather	Heavy frost on the conductors caused momentary and sustained outages when the wind blew..
Dazey_Farms	Substation	21	2021-02-03T20:19:28	2021-02-03T20:19:51	0:00:23	Weather	Heavy frost on the conductors caused momentary and sustained outages when the wind blew..
Dazey_Farms	Substation	21	2021-02-03T21:45:24	2021-02-03T21:45:48	0:00:24	Weather	Heavy frost on the conductors caused momentary and sustained outages when the wind blew..
Dazey_Farms	Substation	21	2021-02-03T22:24:24	2021-02-03T22:24:48	0:00:24	Weather	Heavy frost on the conductors caused momentary and sustained outages when the wind blew..
Dazey_Farms	Substation	21	2021-02-03T23:46:27	2021-02-03T23:46:52	0:00:25	Weather	Heavy frost on the conductors caused momentary and sustained outages when the wind blew..
Dazey_Farms	Substation	21	2021-02-04T00:32:21	2021-02-04T00:33:05	0:00:44	Weather	Heavy frost on the conductors caused momentary and sustained outages when the wind blew..
Dazey_Farms	Substation	21	2021-02-04T00:36:16	2021-02-04T00:36:29	0:00:13	Weather	Heavy frost on the conductors caused momentary and sustained outages when the wind blew..
Dazey_Farms	Substation	21	2021-04-14T21:52:54	2021-04-14T21:54:00	0:01:06	Unknown	Interruption put location closer to Cooperstown. Line patrolled. Nothing found.

Dazey_Farms	Substation	21	2021-05-02T13:10:59	2021-05-02T13:11:04	0:00:05	Unknown	SEL is 2.5 miles north of Sanborn. Patrolled but cause not known.
Dazey_Farms	Substation	21	2021-05-19T19:27:33	2021-05-19T19:28:01	0:00:28	Weather	Thunderstorms and lightning in the area.
Dazey_Farms	Substation	21	2021-05-24T15:24:33	2021-05-24T15:24:39	0:00:06	Equip Fail Insulator	Broken transmission insulator approximately 1 mile north of Cooperstown in the slough.
Dazey_Farms	Substation	21	2021-05-24T15:25:25	2021-05-24T15:31:52	0:06:27	Equip Fail Insulator	Broken transmission insulator approximately 1 mile north of Cooperstown in the slough.
Dazey_Farms	Substation	21	2021-07-19T13:23:11	2021-07-19T13:23:56	0:00:45	Weather	Storm in the Finley area tripped Pickert 925.
Dazey_Farms	Substation	21	2021-07-26T08:52:43	2021-07-26T08:52:51	0:00:08	Equip Fail Insulator	Squirrel made contact in the sub and caused damage to a bus insulator.
Dazey_Farms	Substation	21	2021-09-02T19:43:19	2021-09-02T19:43:24	0:00:05	Weather	Rain/lightning in the area.
Dazey_Farms	Substation	21	2021-10-05T08:36:20	2021-10-05T08:36:27	0:00:07	Unknown	Investigated but cause unknown. SEL mileage by Sanborn.
Deering	Substation	75	2021-02-16T06:56:03	2021-02-16T07:02:23	0:06:20	other	This was due to the Storms that hit Texas that caused major switching incidence up in our region. No fault of OTP
Deering	Substation	75	2021-07-12T05:10:01	2021-07-12T05:10:06	0:00:05	Weather	Rain and high gusts during the morning caused multiple blinks throughout the region
Deering	Substation	75	2021-07-12T05:14:44	2021-07-12T05:14:51	0:00:07	Weather	Rain and high gusts during the morning caused multiple blinks throughout the region
Deering	Substation	75	2021-08-24T05:21:01	2021-08-24T05:21:28	0:00:27	Weather	no exact cause found, but it was windy and raining during the blink.
Deering	Substation	75	2021-09-05T22:45:45	2021-09-06T01:50:59	3:05:14	other	AMB 9/28/21 - SRep found Mylar balloon tangled on one of our pieces of equipment which caused the fault.
Denhoff	Substation	16	2021-02-22T15:24:40	2021-02-22T15:51:56	0:27:16	Equip Fail Insulator	Insulator failed and burned the pole as well. SReps were able to fix.
Denhoff	Substation	16	2021-04-04T20:46:53	2021-04-04T20:47:30	0:00:37	Unknown	SRep in the area could not find anything to directly cause blink.
Denhoff	Substation	16	2021-04-16T22:42:35	2021-04-16T22:42:50	0:00:15	Bird	SRep believes a bird caused the blink
Denhoff	Substation	16	2021-05-22T01:22:08	2021-05-22T01:22:15	0:00:07	Weather	Storm rolled through the area during the night and into the day. SReps couldn't find any specific issues.
Denhoff	Substation	16	2021-06-06T03:04:13	2021-06-06T03:04:22	0:00:09	Weather	Storms were moving across north and central ND causing blinks
Denhoff	Substation	16	2021-07-09T00:19:09	2021-07-09T01:00:03	0:40:54	other	Central Power had as issue in their substation which feeds ours - this was a Central Power issue not ours.
Denhoff	Substation	16	2021-07-09T04:02:37	2021-07-09T04:11:51	0:09:14	other	Central Power had as issue in their substation which feeds ours - this was a Central Power issue not ours.
Denhoff	Substation	12	2021-12-15T15:56:07	2021-12-15T17:40:40	1:44:33		
Devils_Lake_Downtown_West_and_NorthFeeder	Feeder	483	2021-08-30T16:04:18	2021-08-30T16:05:27	0:01:09	Equip Fail Substation	Regulator failure in NE sub caused us to shift load to the downtown sub which was unable to carry the additional load once temperatures
Devils_Lake_Downtown_West_and_NorthFeeder	Feeder	483	2021-08-30T16:16:19	2021-08-30T16:16:25	0:00:06	Equip Fail Substation	Regulator failure in NE sub caused us to shift load to the downtown sub which was unable to carry the additional load once temperatures
Devils_Lake_Downtown_West_and_NorthFeeder	Feeder	483	2021-08-30T16:24:43	2021-08-30T16:24:50	0:00:07	Equip Fail Substation	Regulator failure in NE sub caused us to shift load to the downtown sub which was unable to carry the additional load once temperatures
Devils_Lake_Downtown_West_and_NorthFeeder	Feeder	483	2021-08-30T16:55:06	2021-08-30T16:55:12	0:00:06	Equip Fail Substation	Regulator failure in NE sub caused us to shift load to the downtown sub which was unable to carry the additional load once temperatures
Devils_Lake_Downtown_West_and_NorthFeeder	Feeder	483	2021-08-30T17:04:44	2021-08-30T17:04:51	0:00:07	Equip Fail Substation	Regulator failure in NE sub caused us to shift load to the downtown sub which was unable to carry the additional load once temperatures
Devils_Lake_Northeast	Substation	1289	2021-10-17T16:24:00	2021-10-17T16:48:40	0:24:40	Equip Fail Underground	Terminator on underground 41.6kv cable failed
Devils_Lake_Northeast_SouthFeeder	Feeder	547	2021-08-30T16:04:34	2021-08-30T16:04:38	0:00:04	Equip Fail Substation	Regulator failure in NE sub caused us to shift load to the downtown sub which was unable to carry the additional load once temperatures
Devils_Lake_Northeast_SouthFeeder	Feeder	547	2021-08-30T16:16:34	2021-08-30T16:16:41	0:00:07	Equip Fail Substation	Regulator failure in NE sub caused us to shift load to the downtown sub which was unable to carry the additional load once temperatures

Devils_Lake_Northeast_SouthFeeder	Feeder	547	2021-08-30T16:24:58	2021-08-30T16:25:05	0:00:07	Equip Fail Substation	Regulator failure in NE sub caused us to shift load to the downtown sub which was unable to carry the additional load once temperatures
Devils_Lake_Northeast_SouthFeeder	Feeder	547	2021-08-30T16:55:21	2021-08-30T16:55:27	0:00:06	Equip Fail Substation	Regulator failure in NE sub caused us to shift load to the downtown sub which was unable to carry the additional load once temperatures
Devils_Lake_Northeast_SouthFeeder	Feeder	547	2021-08-30T17:05:00	2021-08-30T17:05:06	0:00:06	Equip Fail Substation	Regulator failure in NE sub caused us to shift load to the downtown sub which was unable to carry the additional load once temperatures
Devils_Lake_Northwest	Substation	904	2021-10-17T16:23:56	2021-10-17T16:39:39	0:15:43	Equip Fail Underground	Terminator on underground 41.6kv cable failed
Devils_Lake_Northwest	Substation	904	2021-12-28T07:58:32	2021-12-28T07:58:53	0:00:21	Unknown	Unknown - winter storm in area.
Devils_Lake_Southeast	Substation	968	2021-10-17T16:23:50	2021-10-17T16:48:21	0:24:31	Equip Fail Underground	Terminator on underground 41.6kv cable failed
Douglas	Substation	67	2021-01-14T03:43:16	2021-01-14T03:43:23	0:00:07	Weather	High wind and moisture caused conductors to gallop and caused phases to slap together on the 41.6 line by Max ND.
Douglas	Substation	67	2021-01-14T04:06:23	2021-01-14T04:06:47	0:00:24	Weather	High wind and moisture caused conductors to gallop and caused phases to slap together on the 41.6 line by Max ND.
Douglas	Substation	67	2021-01-14T04:20:23	2021-01-14T04:20:53	0:00:30	Weather	High wind and moisture caused conductors to gallop and caused phases to slap together on the 41.6 line by Max ND.
Douglas	Substation	67	2021-01-14T04:38:17	2021-01-14T04:38:28	0:00:11	Weather	High wind and moisture caused conductors to gallop and caused phases to slap together on the 41.6 line by Max ND.
Douglas	Substation	67	2021-01-14T05:20:49	2021-01-14T05:20:56	0:00:07	Weather	High wind and moisture caused conductors to gallop and caused phases to slap together on the 41.6 line by Max ND.
Douglas	Substation	67	2021-01-14T05:30:26	2021-01-14T05:30:35	0:00:09	Weather	High wind and moisture caused conductors to gallop and caused phases to slap together on the 41.6 line by Max ND.
Douglas	Substation	67	2021-01-14T05:32:24	2021-01-14T05:32:33	0:00:09	Weather	High wind and moisture caused conductors to gallop and caused phases to slap together on the 41.6 line by Max ND.
Douglas	Substation	67	2021-01-14T05:33:40	2021-01-14T05:34:11	0:00:31	Weather	High wind and moisture caused conductors to gallop and caused phases to slap together on the 41.6 line by Max ND.
Douglas	Substation	67	2021-02-23T04:36:16	2021-02-23T04:43:37	0:07:21	other	I was told by Dispatch that WAPA had trouble on their 115 kv line so they switched to the CEPEC Mallard station for source to supply power
Douglas	Substation	67	2021-06-06T01:37:43	2021-06-06T01:37:53	0:00:10	Weather	Storms were moving across north and central ND causing blinks
Douglas	Substation	67	2021-06-29T13:32:21	2021-06-29T14:28:09	0:55:48	Planned	Planned outage with the Crew
Douglas	Substation	67	2021-08-04T07:52:22	2021-08-04T07:52:32	0:00:10	Unknown	SRep could not find a reason for blink after patrolling.
Douglas	Substation	67	2021-08-09T02:57:13	2021-08-09T02:57:18	0:00:05	Lightning	storm came through causing Lightning, Hail and rain
Douglas	Substation	67	2021-09-15T11:42:19	2021-09-15T11:42:24	0:00:05	Unknown	Cause unknown. SRep patrolled the following day and didnt find any direct cause.
Doyon	Substation	33	2021-04-17T21:25:17	2021-04-17T21:25:22	0:00:05	Unknown	Unknown
Doyon	Substation	33	2021-05-17T14:52:42	2021-05-17T14:52:49	0:00:07	other	Switch flashed over due to loading when dispatch opened it.
Doyon	Substation	33	2021-05-29T17:27:42	2021-05-29T17:45:58	0:18:16	Equip Fail Insulator	Pole Top insulator failed causing top of pole to burn off.
Doyon	Substation	33	2021-06-26T17:04:02	2021-06-26T17:04:13	0:00:11	Unknown	Unknown
Doyon	Substation	33	2021-06-27T16:03:14	2021-06-27T16:03:24	0:00:10	Unknown	Unknown
Doyon	Substation	33	2021-07-19T20:00:06	2021-07-19T20:00:13	0:00:07	Weather	Weather moved through the area. Lots of lightning
Doyon	Substation	33	2021-07-26T09:11:16	2021-07-26T09:11:24	0:00:08	Planned	Contractor work on replacing 41.6kv line - switching and work.
Doyon	Substation	33	2021-07-27T12:24:24	2021-07-27T12:45:40	0:21:16	Planned	Contractor work on replacing 41.6kv line - switching and work.
Doyon	Substation	33	2021-08-20T08:05:07	2021-08-20T08:05:13	0:00:06	Unknown	Unknown

Doyon	Substation	33	2021-08-27T10:57:36	2021-08-27T10:57:41	0:00:05	Unknown	Unknown. Weather moved through the area
Doyon	Substation	33	2021-09-20T17:06:34	2021-09-20T17:06:41	0:00:07	Unknown	Unknown
Drake	Substation	253	2021-06-11T03:54:31	2021-06-11T06:28:58	2:34:27	Equip Fail Arrester	Lightning arrester failed due to early morning lightning.
Drake	Substation	253	2021-08-09T14:27:57	2021-08-09T14:28:03	0:00:06	Lightning	storm came through causing Lightning, Hail and rain
Drake	Substation	253	2021-08-22T09:49:41	2021-08-22T09:49:50	0:00:09	Weather	Windy rainy weather was happening when this blink occurred. SRep believes this was the cause
Drake	Substation	253	2021-08-22T09:54:43	2021-08-22T09:56:04	0:01:21	Weather	Windy rainy weather was happening when this blink occurred. SRep believes this was the cause
Drake	Substation	253	2021-08-22T15:28:16	2021-08-22T15:28:21	0:00:05	Lightning	SRep stated that lightning was still occurring in the area during this blink.
Drake	Substation	253	2021-09-15T06:20:59	2021-09-15T07:07:56	0:46:57	Equip Fail Arrester	Arrester blew. cause unknown
Drake	Substation	253	2021-09-18T11:03:24	2021-09-18T11:03:32	0:00:08	other	Unknown cause at this time. Working with SRep and Collin Kremerier to troubleshoot the ongoing blinks in the area. Thinking it's possibly a bad
Drake	Substation	253	2021-09-18T11:04:45	2021-09-18T11:04:51	0:00:06	other	Unknown cause at this time. Working with SRep and Collin Kremerier to troubleshoot the ongoing blinks in the area. Thinking it's possibly a bad
Drake	Substation	253	2021-09-20T12:32:06	2021-09-20T12:32:14	0:00:08	other	Unknown cause at this time. Working with SRep and Collin Kremerier to troubleshoot the ongoing blinks in the area. Thinking it's possibly a bad
Drake	Substation	253	2021-10-10T11:03:59	2021-10-10T11:04:06	0:00:07	Unknown	SRep patrolled line the next day and could not find anything. Blink has not occurred like this since.
Drake	Substation	253	2021-12-31T23:44:37	2021-12-31T23:55:35	0:10:58		
Drake	Substation	253	2021-12-31T23:56:08	2021-12-31T23:58:22	0:02:14		
Drayton	Substation	507	2021-05-13T09:25:28	2021-05-13T09:38:00	0:12:32		
Drayton	Substation	507	2021-05-30T14:04:18	2021-05-30T14:04:30	0:00:12		
Drayton	Substation	507	2021-06-22T17:40:47	2021-06-22T17:40:57	0:00:10		
Drayton_NorthFeeder	Feeder	339	2021-04-25T09:59:30	2021-04-25T09:59:37	0:00:07	Animal	Squirrel on transformer, rolled breaker before opening up fuse
Drayton_NorthFeeder	Feeder	339	2021-08-13T07:06:36	2021-08-13T07:06:44	0:00:08		
Drayton_NorthFeeder	Feeder	339	2021-08-29T09:11:41	2021-08-29T09:11:48	0:00:07		
Drayton_NorthFeeder	Feeder	339	2021-09-11T10:33:53	2021-09-11T10:34:00	0:00:07		
Drayton_SouthFeeder	Feeder	168	2021-06-13T01:49:43	2021-06-13T01:49:50	0:00:07		
Drayton_SouthFeeder	Feeder	168	2021-06-14T09:23:11	2021-06-14T09:23:18	0:00:07		
Drayton_SouthFeeder	Feeder	168	2021-06-30T19:37:40	2021-06-30T19:37:50	0:00:10		
Dresden_Wales_Hannah	Substation	89	2021-01-10T12:00:04	2021-01-10T18:33:26	6:33:22	Equip Fail Pole	AMB audited 1/28/21 - 4 poles in a row broke off due to heavy frost coupled with 25 mile an hour winds. One pole appeared rotten and
Dresden_Wales_Hannah	Substation	89	2021-01-29T08:35:35	2021-01-29T08:36:06	0:00:31	Equip Fail Substation	Two Disconnects failed in the Rock Lake Substation
Dresden_Wales_Hannah	Substation	89	2021-01-29T08:37:56	2021-01-29T08:38:10	0:00:14	Equip Fail Substation	Two Disconnects failed in the Rock Lake Substation
Dresden_Wales_Hannah	Substation	89	2021-01-29T08:39:24	2021-01-29T08:39:33	0:00:09	Equip Fail Substation	Two Disconnects failed in the Rock Lake Substation
Dresden_Wales_Hannah	Substation	89	2021-01-29T08:40:29	2021-01-29T08:40:42	0:00:13	Equip Fail Substation	Two Disconnects failed in the Rock Lake Substation

Dresden_Wales_Hannah	Substation	89	2021-01-29T08:41:23	2021-01-29T09:16:37	0:35:14	Equip Fail Substation	Two Disconnects failed in the Rock Lake Substation
Dresden_Wales_Hannah	Substation	89	2021-02-03T20:33:18	2021-02-03T21:06:12	0:32:54	Equip Fail Substation	Breaker that feeds towns to the south Langdon was open due to Frost and wind. When dispatched attempted to close several times, breaker
Dresden_Wales_Hannah	Substation	89	2021-06-05T19:15:54	2021-06-05T19:16:02	0:00:08	Weather	Severe thunder storm with 60 - 70 mile hour wind gust broke 4 41.6kv poles off on feed to dresden jct.
Dresden_Wales_Hannah	Substation	89	2021-06-05T19:24:18	2021-06-06T04:55:35	9:31:17	Weather	AMB audited 6/28/21 - Severe thunder storm with 60 - 70 mile hour wind gust broke 4 41.6kv poles off on feed to dresden jct.
Dresden_Wales_Hannah	Substation	89	2021-06-06T09:25:33	2021-06-06T09:26:02	0:00:29	Weather	Severe storm moved through breaking poles, cross arms, and insulators.
Dresden_Wales_Hannah	Substation	89	2021-06-06T09:52:25	2021-06-06T09:59:17	0:06:52	Weather	Severe storm moved through breaking poles, cross arms, and insulators.
Dresden_Wales_Hannah	Substation	89	2021-06-06T16:02:34	2021-06-06T19:38:13	3:35:39	Equip Fail Insulator	AMB audited 6/28/21 - Damaged insulator from storm broke burning pole top off.
Dresden_Wales_Hannah	Substation	89	2021-07-03T16:19:27	2021-07-03T18:25:51	2:06:24	Equip Fail Substation	AMB audited 8/2/21 - Storm moved through and Minnkota has issues in their 115kv Sub which is the OTP source in the area.
Dresden_Wales_Hannah	Substation	89	2021-07-19T18:04:04	2021-07-19T18:04:10	0:00:06	Weather	Weather moved through the area. Lots of lightning
Dresden_Wales_Hannah	Substation	89	2021-07-19T18:17:03	2021-07-19T18:17:06	0:00:03	Weather	Weather moved through the area. Lots of lightning
Dresden_Wales_Hannah	Substation	89	2021-07-19T19:42:35	2021-07-19T19:42:42	0:00:07	Weather	Weather moved through the area. Lots of lightning
Dresden_Wales_Hannah	Substation	89	2021-08-09T09:46:57	2021-08-09T09:47:04	0:00:07	Weather	Severe storm moved through the area
Dresden_Wales_Hannah	Substation	89	2021-08-09T20:48:42	2021-08-09T20:48:47	0:00:05	Weather	Severe Storm system with rotation moved through the area.
Dresden_Wales_Hannah	Substation	89	2021-08-20T15:57:20	2021-08-20T15:57:24	0:00:04	Weather	Storm cell moved through area
Dresden_Wales_Hannah	Substation	89	2021-08-24T07:08:43	2021-08-24T07:08:51	0:00:08	Unknown	Weather moved through the area.
Dresden_Wales_Hannah	Substation	89	2021-09-17T09:13:38	2021-09-17T09:14:07	0:00:29	Equip Fail Conductor	Broken conductor on 41.6kv transmission line
Dresden_Wales_Hannah	Substation	89	2021-09-17T09:25:16	2021-09-17T10:19:53	0:54:37	Equip Fail Conductor	Broken conductor on 41.6kv transmission line
Dresden_Wales_Hannah	Substation	89	2021-11-08T21:52:25	2021-11-08T21:52:30	0:00:05	Vehicle Accident	Truck Broke Minnkota 115kv/69kv pole causing service to be lost to the area until switching could be done to move source to the 41.6kv.
Dresden_Wales_Hannah	Substation	89	2021-11-08T23:15:19	2021-11-08T23:17:16	0:01:57	Vehicle Accident	Truck Broke Minnkota 115kv/69kv pole causing service to be lost to the area until switching could be done to move source to the 41.6kv.
Dresden_Wales_Hannah	Substation	89	2021-11-08T23:18:15	2021-11-08T23:44:43	0:26:28	Vehicle Accident	Truck Broke Minnkota 115kv/69kv pole causing service to be lost to the area until switching could be done to move source to the 41.6kv.
Dresden_Wales_Hannah	Substation	89	2021-12-29T02:39:15	2021-12-29T04:35:37	1:56:22	Equip Fail Conductor	Conductor on 41.6 broke in the extreme cold. 27 below.
Dunning	Substation	2	2021-06-06T00:39:53	2021-06-06T00:40:01	0:00:08	Weather	Storms were moving across north and central ND causing blinks
Dunning	Substation	2	2021-06-11T02:06:59	2021-06-11T07:09:34	5:02:35	Weather	storms were rolling through the region causing multiple blinks throughout the Rugby CSC
Dunning	Substation	2	2021-07-14T20:49:24	2021-07-14T20:49:38	0:00:14	Lightning	Lightning storm was traveling through the area and caused a few blinks on its way through
Dunning	Substation	2	2021-08-09T16:04:48	2021-08-09T16:04:55	0:00:07	Lightning	storm came through causing Lightning, Hail and rain
Dunning	Substation	2	2021-09-02T08:11:40	2021-09-02T08:11:48	0:00:08	Weather	Rain and lightning were occurring throughout the region.
Dunning	Substation	2	2021-09-11T15:50:23	2021-09-11T15:50:31	0:00:08	Unknown	SRep could not find a reason for the blink.
Dunning	Substation	2	2021-09-12T07:35:50	2021-09-12T07:35:58	0:00:08	Weather	Windy and rainy weather was passing through the area. No direct cause could be found
Dunseith	Substation	432	2021-05-14T13:27:37	2021-05-14T13:28:37	0:01:00	Lightning	Storm traveled through area with lightning

Dunseith	Substation	432	2021-11-11T17:31:11	2021-11-11T17:31:17	0:00:06		
Dunseith	Substation	432	2021-11-21T22:09:29	2021-11-21T22:09:37	0:00:08		
Dunseith	Substation	432	2021-11-29T14:03:37	2021-11-29T14:03:48	0:00:11		
Dwight	Substation	56	2021-06-07T22:46:23	2021-06-07T22:51:21	0:04:58	Weather	Storms traveled through the area with winds heavy rain and lots of lightning.
Dwight	Substation	56	2021-06-11T12:33:11	2021-06-11T15:01:05	2:27:54	Planned	AMB audited 6/28/21 - We took outage to change out the transformers in the substation.
Dwight	Substation	56	2021-06-11T15:03:13	2021-06-11T15:25:14	0:22:01	Planned	We took outage to change out the transformers in the substation.
Dwight	Substation	56	2021-07-11T04:10:20	2021-07-11T04:10:54	0:00:34	Equip Fail Arrester	High Side arrestor was blown in Christine Sub. line was patrolled and nothing was found.
Dwight	Substation	56	2021-08-24T02:44:08	2021-08-24T02:44:23	0:00:15	Weather	Thunder storms in the area with a lot of lightning and strong winds.
Dwight	Substation	56	2021-08-24T03:58:41	2021-08-24T03:58:58	0:00:17	Weather	Thunder storms in the area with a lot of lightning and strong winds.
Dwight	Substation	56	2021-09-19T21:21:53	2021-09-19T21:22:12	0:00:19	Equip Fail Insulator	Cracked insulator was allowing tracking to the cross arm.
Eckelson	Substation	38	2021-02-02T20:38:45	2021-02-02T20:38:51	0:00:06	Weather	Heavy frost on the conductors caused momentary and sustained outages when the wind blew..
Eckelson	Substation	38	2021-02-02T22:22:40	2021-02-02T22:23:01	0:00:21	Weather	Heavy frost on the conductors caused momentary and sustained outages when the wind blew..
Eckelson	Substation	38	2021-02-03T06:56:46	2021-02-03T07:23:45	0:26:59	Weather	Heavy frost on the conductors caused momentary and sustained outages when the wind blew..
Eckelson	Substation	38	2021-02-03T09:23:54	2021-02-03T09:24:02	0:00:08	Weather	Heavy frost on the conductors caused momentary and sustained outages when the wind blew..
Eckelson	Substation	38	2021-02-03T21:25:57	2021-02-03T21:26:03	0:00:06	Weather	Heavy frost on the conductors caused momentary and sustained outages when the wind blew..
Eckelson	Substation	38	2021-06-11T08:52:33	2021-06-11T10:11:17	1:18:44	Weather	Storm in the area.
Eckelson	Substation	38	2021-09-03T16:35:34	2021-09-03T16:35:43	0:00:09	Unknown	SEL 9.2 miles from Spiritwood Breaker 415. Cause unknown.
Edinburg	Substation	162	2021-02-02T14:51:32	2021-02-02T14:51:59	0:00:27	Weather	Heavy Frost with windy conditions causing phases to sag and slap together on east west lines.
Edinburg	Substation	162	2021-06-25T22:50:23	2021-06-25T22:50:32	0:00:09	Unknown	Unknown
Edinburg	Substation	162	2021-06-26T16:11:40	2021-06-26T16:11:48	0:00:08	Unknown	Unknown
Edinburg	Substation	162	2021-07-19T11:16:52	2021-07-19T11:16:58	0:00:06	Weather	Weather moved through the area. Lots of lightning
Edinburg	Substation	162	2021-08-03T01:06:34	2021-08-03T01:06:41	0:00:07	Unknown	Unknown
Edinburg	Substation	162	2021-08-27T11:53:03	2021-08-27T11:53:09	0:00:06	Unknown	Unknown. Weather moved through the area
Edinburg	Substation	162	2021-09-01T07:16:09	2021-09-01T07:17:14	0:01:05	Unknown	unknown
Edmore	Substation	167	2021-01-14T16:26:30	2021-01-14T16:26:48	0:00:18	Weather	High winds with icing of lines causing phases to slap together.
Edmore	Substation	167	2021-01-14T17:21:04	2021-01-14T17:21:22	0:00:18	Weather	High winds with icing of lines causing phases to slap together.
Edmore	Substation	167	2021-01-14T21:40:40	2021-01-14T21:40:57	0:00:17	Equip Fail Substation	Regulator disconnect in substation burnt up causing issues.
Edmore	Substation	167	2021-01-14T21:45:22	2021-01-14T21:45:30	0:00:08	Equip Fail Substation	Regulator disconnect in substation burnt up causing issues.
Edmore	Substation	167	2021-01-14T23:27:29	2021-01-14T23:27:46	0:00:17	Equip Fail Substation	Regulator disconnect in substation burnt up causing issues.

Edmore	Substation	167	2021-01-14T23:32:56	2021-01-14T23:35:00	0:02:04	Equip Fail Substation	Disconnect on regulator connection in substation burned up causing issues.
Edmore	Substation	167	2021-02-02T06:40:58	2021-02-02T08:06:46	1:25:48	Equip Fail Insulator	AMB audited 3/30/21 - Insulator on the 41.6kv line near Fairdale broke in part due to heavy frost on the lines and wind picking up.
Edmore	Substation	167	2021-02-02T14:06:33	2021-02-02T14:06:38	0:00:05	Weather	Heavy Frost with windy conditions causing phases to sag and slap together on east west lines.
Edmore	Substation	167	2021-02-02T14:22:56	2021-02-02T14:23:42	0:00:46	Weather	Heavy Frost with windy conditions causing phases to sag and slap together on east west lines.
Edmore	Substation	167	2021-02-02T14:24:32	2021-02-02T15:16:24	0:51:52	Weather	Heavy Frost with windy conditions causing phases to sag and slap together on east west lines.
Edmore	Substation	167	2021-02-03T18:46:44	2021-02-03T18:50:03	0:03:19	Weather	Heavy Frost and wind causing phases to slap together. crews worked on beating ice off the lines for breaker to hold.
Edmore	Substation	167	2021-02-03T18:51:29	2021-02-03T18:52:07	0:00:38	Weather	Heavy Frost and wind causing phases to slap together. Crews worked on knocking ice of to restore service
Edmore	Substation	167	2021-02-03T19:06:07	2021-02-03T19:51:08	0:45:01	Weather	Heavy Frost and wind causing phases to slap together. Crews worked on knocking ice of to restore service
Edmore	Substation	167	2021-02-03T19:59:15	2021-02-03T20:13:04	0:13:49	Weather	Heavy Frost and wind causing phases to slap together. Crews worked on knocking ice of to restore service
Edmore	Substation	167	2021-02-03T20:17:37	2021-02-03T20:17:50	0:00:13	Weather	Heavy Frost and wind causing phases to slap together. Crews worked on knocking ice of to restore service
Edmore	Substation	167	2021-02-03T20:18:32	2021-02-03T20:25:32	0:07:00	Weather	Due to heavy frost and windy conditions, phases slapping together causing momentaries/outages. Field personnel knocked ice off in worst
Edmore	Substation	167	2021-02-03T20:26:10	2021-02-03T21:07:45	0:41:35	Weather	Due to heavy frost and windy conditions, phases slapping together causing momentaries/outages. Field personnel knocked ice off in worst
Edmore	Substation	167	2021-07-03T16:19:27	2021-07-03T17:53:50	1:34:23	Equip Fail Substation	Stormed moved through and Minnkota has issues in their 115kv Sub which is the OTP source in the area.
Edmore	Substation	167	2021-07-19T19:47:47	2021-07-19T19:47:51	0:00:04	Weather	Weather moved through the area. Lots of lightning
Edmore	Substation	167	2021-08-04T10:00:28	2021-08-04T11:28:41	1:28:13	Planned	Planned outage to replace substation Disconnects
Edmore	Substation	167	2021-08-28T21:36:21	2021-08-28T21:36:26	0:00:05	Unknown	Unknown. Weather moved through the area
Edmore	Substation	167	2021-09-01T07:16:09	2021-09-01T07:16:16	0:00:07	Unknown	Unknown
Edmore	Substation	167	2021-11-08T21:52:43	2021-11-08T21:52:48	0:00:05	Vehicle Accident	Truck Broke Minnkota 115kv/69kv pole causing service to be lost to the area until switching could be done to move source to the 41.6kv.
Edmore	Substation	167	2021-11-08T23:15:38	2021-11-08T23:17:33	0:01:55	Vehicle Accident	Truck Broke Minnkota 115kv/69kv pole causing service to be lost to the area until switching could be done to move source to the 41.6kv.
Edmore	Substation	167	2021-11-08T23:18:37	2021-11-09T00:43:56	1:25:19	Vehicle Accident	Truck Broke Minnkota 115kv/69kv pole causing service to be lost to the area until switching could be done to move source to the 41.6kv.
Edmore	Substation	167	2021-11-23T08:49:46	2021-11-23T08:49:53	0:00:07	Unknown	Unknown
Eldridge	Substation	46	2021-02-01T13:56:26	2021-02-01T13:57:29	0:01:03	Weather	Heavy frost on the conductors caused momentary and sustained outages when the wind blew..
Eldridge	Substation	46	2021-02-01T15:03:07	2021-02-01T15:03:13	0:00:06	Weather	Heavy frost on the conductors caused momentary and sustained outages when the wind blew..
Eldridge	Substation	46	2021-02-02T07:26:47	2021-02-02T07:26:51	0:00:04	Equip Fail Conductor	Heavy frost on the conductors broke a CPEC line in the Gackle area.
Eldridge	Substation	46	2021-02-02T11:34:39	2021-02-02T11:34:44	0:00:05	Weather	Heavy frost on the conductors caused momentary and sustained outages when the wind blew..
Eldridge	Substation	46	2021-02-02T19:02:36	2021-02-02T19:17:11	0:14:35	Weather	Heavy frost on the conductors caused momentary and sustained outages when the wind blew..
Eldridge	Substation	46	2021-02-03T00:27:08	2021-02-03T00:28:57	0:01:49	Weather	Heavy frost on the conductors caused momentary and sustained outages when the wind blew..
Eldridge	Substation	46	2021-02-03T00:32:26	2021-02-03T00:32:40	0:00:14	Weather	Heavy frost on the conductors caused momentary and sustained outages when the wind blew..
Eldridge	Substation	46	2021-02-03T07:34:11	2021-02-03T07:34:18	0:00:07	Weather	Heavy frost on the conductors caused momentary and sustained outages when the wind blew..

Eldridge	Substation	46	2021-02-03T08:38:32	2021-02-03T08:38:36	0:00:04	Weather	Heavy frost on the conductors caused momentary and sustained outages when the wind blew..
Eldridge	Substation	46	2021-02-03T11:03:21	2021-02-03T11:03:29	0:00:08	Weather	Heavy frost on the conductors caused momentary and sustained outages when the wind blew..
Eldridge	Substation	46	2021-02-03T12:31:18	2021-02-03T12:42:07	0:10:49	Weather	Heavy frost on the conductors caused momentary and sustained outages when the wind blew..
Eldridge	Substation	46	2021-05-19T22:37:45	2021-05-19T23:38:34	1:00:49	Equip Fail Conductor	AMB audited 5/25/21 - Broken center phase mid span on transmission line approximately 1.25 miles west of Windsor I-94 exit.
Eldridge	Substation	46	2021-06-04T20:09:15	2021-06-04T20:09:22	0:00:07	Weather	Storm in the area.
Eldridge	Substation	46	2021-06-07T18:48:27	2021-06-07T18:49:13	0:00:46	Weather	Storm in the area.
Eldridge	Substation	46	2021-06-08T01:46:53	2021-06-08T01:47:03	0:00:10	Weather	Storm in the area.
Eldridge	Substation	46	2021-06-08T09:29:46	2021-06-08T09:29:58	0:00:12	Weather	Storm in the area.
Eldridge	Substation	46	2021-09-25T09:54:58	2021-09-25T09:55:07	0:00:09	Unknown	Unknown and not investigated. No SEL data.
Eldridge	Substation	46	2021-09-29T17:38:54	2021-09-29T17:39:50	0:00:56	Weather	Rain with a lot of lightning in the area.
Emrick	Substation	4	2021-02-02T15:47:18	2021-02-02T15:48:12	0:00:54	Unknown	SRep could not find a reason for outage
Emrick	Substation	4	2021-02-22T15:24:25	2021-02-22T16:02:02	0:37:37	Equip Fail Insulator	Insulator failed and burned the pole as well. SReps were able to fix.
Emrick	Substation	4	2021-10-27T15:20:23	2021-10-27T15:21:15	0:00:52		
Emrick	Substation	4	2021-10-27T17:46:35	2021-10-27T17:47:30	0:00:55		
Emrick_Rural	Substation	7	2021-02-02T15:47:23	2021-02-02T15:47:34	0:00:11	Unknown	SRep could not find an exact cause of blink
Emrick_Rural	Substation	7	2021-02-22T15:24:40	2021-02-22T16:01:36	0:36:56	Equip Fail Insulator	Insulator failed and burned the pole as well. SReps were able to fix.
Emrick_Rural	Substation	7	2021-10-27T15:20:18	2021-10-27T15:20:28	0:00:10		
Emrick_Rural	Substation	7	2021-10-27T17:46:31	2021-10-27T17:46:40	0:00:09		
Enderlin_115kv	Substation	825	2021-03-04T03:00:24	2021-03-04T04:14:28	1:14:04	Equip Fail Conductor	AMB audited 4/28/21: A splice on the 115 North of Gwinner burnt up and the line made contact with the ground causing the line to trip out.
Enderlin_115kv	Substation	825	2021-06-07T21:36:13	2021-06-07T21:41:24	0:05:11	Weather	Storms traveled through the area with winds heavy rain and lots of lightning.
Enderlin_115kv	Substation	825	2021-06-07T22:24:52	2021-06-07T22:25:19	0:00:27	Weather	Storms traveled through the area with winds heavy rain and lots of lightning.
Enderlin_115kv	Substation	825	2021-06-09T13:35:21	2021-06-09T13:39:05	0:03:44	Weather	Broken pole on the 115 line
Enderlin_115kv	Substation	825	2021-08-08T05:34:38	2021-08-08T05:35:02	0:00:24	Unknown	115 tripped out no cause found
Enderlin_115kv	Substation	825	2021-09-02T18:26:00	2021-09-02T18:26:28	0:00:28	Equip Fail Arrester	High side arrestors in Alice sub failed line was patrolled and nothing was found.
Enderlin_115kv	Substation	825	2021-10-09T13:32:25	2021-10-09T13:32:49	0:00:24	Weather	Thunder storms and lightning in the area.
Enderlin_115kv	Substation	825	2021-10-15T12:45:32	2021-10-15T12:45:56	0:00:24	Unknown	115 blinked out line was patrolled and no cause found.
Enderlin_115kv_Bank1	SubstationBank	124	2021-05-14T10:11:55	2021-05-14T10:56:46	0:44:51	Weather	Lightning cause high side arrester in the sub to fail, all will be changed out in the near future.
Enderlin_115kv_Bank2	SubstationBank	701	2021-02-21T11:42:48	2021-02-21T11:43:16	0:00:28	Animal	Squirrel in the line caused blink in power.
Enderlin_115kv_Bank2	SubstationBank	701	2021-05-25T15:51:11	2021-05-25T15:51:17	0:00:06	Unknown	Did not find cause after driving the line.

Enderlin_115kv_Bank2	SubstationBank	701	2021-05-30T17:44:34	2021-05-30T18:21:00	0:36:26	Vegetation	Large tree over all three phases had to take outage to clear the line.
Enderlin_115kv_Bank2	SubstationBank	701	2021-06-11T08:35:44	2021-06-11T08:35:50	0:00:06	Weather	Broken pole on the 115 line
Enderlin_115kv_Bank2	SubstationBank	701	2021-06-25T11:05:29	2021-06-25T11:05:39	0:00:10	Animal	Squirrel in the line.
Enderlin_115kv_Bank2	SubstationBank	701	2021-08-03T08:50:17	2021-08-03T08:50:26	0:00:09	Animal	Squirrel on transformer.
Enderlin_115kv_Bank2	SubstationBank	701	2021-08-24T01:45:05	2021-08-24T01:45:13	0:00:08	Weather	Thunder storms in the area with a lot of lightning and strong winds.
Enderlin_115kv_Bank2	SubstationBank	701	2021-08-24T01:47:29	2021-08-24T01:47:37	0:00:08	Weather	Thunder storms in the area with a lot of lightning and strong winds.
Enderlin_115kv_SheldonLine	Feeder	3	2021-06-07T21:58:45	2021-06-07T21:59:04	0:00:19	Weather	Storms traveled through the area with winds heavy rain and lots of lightning.
Enderlin_115kv_SheldonLine	Feeder	3	2021-06-26T06:54:06	2021-06-26T06:54:26	0:00:20	Unknown	We patrolled and could not find anything
Enderlin_115kv_SheldonLine	Feeder	3	2021-06-30T12:47:20	2021-06-30T12:47:39	0:00:19	Equip Fail Arrester	Found a bad arrester in Sheldon
Erie	Substation	38	2021-05-01T09:04:12	2021-05-01T09:04:40	0:00:28	Unknown	SEL is 13.0 miles from Buffalo 745. Patrolled but cause not known.
Erie	Substation	21	2021-08-05T09:09:40	2021-08-05T11:37:18	2:27:38	Planned	AMB audited 8/27/21 - Planned outage to replace 10 spans of steel conductor with 10R.
Erie	Substation	38	2021-08-24T13:26:17	2021-08-24T13:26:27	0:00:10	other	Underground cable was not located on the south side of the pole and contractor trenched through the cable.
Erie	Substation	38	2021-09-15T17:28:57	2021-09-15T17:29:53	0:00:56	Unknown	Investigated but nothing found.
Erie	Substation	38	2021-10-05T08:59:40	2021-10-05T14:47:22	5:47:42	Planned	AMB audit 11/2/21 - Erie substation conversion and cutover.
Erie	Substation	38	2021-12-09T23:04:47	2021-12-10T00:42:06	1:37:19	Equip Fail Substation	SEL 12.8 miles from Buffalo 345 kv sub breaker 745. Found failed PT on the 41.6 kv bay in the sub.
Esmond	Substation	146	2021-04-03T10:31:49	2021-04-03T10:32:08	0:00:19	Equip Fail Arrester	Arrester fail
Esmond	Substation	146	2021-07-12T06:59:56	2021-07-12T07:01:54	0:01:58	Lightning	115 poles were hit by lightning. poles to be changed out.
Esmond	Substation	146	2021-07-14T17:39:12	2021-07-14T17:39:17	0:00:05	Lightning	Lightning storm was traveling through the area and caused a few blinks on its way through
Esmond	Substation	146	2021-10-27T12:33:35	2021-10-27T12:35:20	0:01:45		
Esmond	Substation	146	2021-10-27T12:41:41	2021-10-27T12:43:14	0:01:33		
Fairdale	Substation	46	2021-02-02T06:40:58	2021-02-02T08:19:26	1:38:28	Equip Fail Insulator	AMB audited 3/30/21 - Insulator on the 41.6kv line near Fairdale broke in part due to heavy frost on the lines and wind picking up.
Fairdale	Substation	46	2021-02-02T14:06:16	2021-02-02T14:06:38	0:00:22	Weather	Heavy frost and wind causing phases to sag and slap together on east west lines
Fairdale	Substation	46	2021-02-02T14:22:57	2021-02-02T14:23:41	0:00:44	Weather	Heavy Frost with windy conditions causing phases to sag and slap together on east west lines.
Fairdale	Substation	46	2021-02-02T14:24:25	2021-02-02T15:16:22	0:51:57	Weather	Heavy Frost with windy conditions causing phases to sag and slap together on east west lines.
Fairdale	Substation	46	2021-02-03T18:46:44	2021-02-03T18:50:04	0:03:20	Weather	Heavy Frost and wind causing phases to slap together. crews worked on beating ice off the lines for breaker to hold.
Fairdale	Substation	46	2021-02-03T18:51:21	2021-02-03T18:52:24	0:01:03	Weather	Heavy Frost and wind causing phases to slap together. crews worked on beating ice off the lines for breaker to hold.
Fairdale	Substation	75	2021-02-03T19:06:07	2021-02-03T19:51:08	0:45:01	Weather	Heavy Frost and wind causing phases to slap together. Crews worked on knocking ice of to restore service
Fairdale	Substation	46	2021-02-03T19:59:07	2021-02-03T20:13:03	0:13:56	Weather	Heavy Frost and wind causing phases to slap together. Crews worked on knocking ice of to restore service
Fairdale	Substation	46	2021-02-03T20:17:28	2021-02-03T20:17:49	0:00:21	Weather	Heavy Frost and wind causing phases to slap together. Crews worked on knocking ice of to restore service

Fairdale	Substation	46	2021-02-03T20:18:24	2021-02-03T20:25:31	0:07:07	Weather	Heavy Frost and wind causing phases to slap together. Crews worked on knocking ice off to restore service
Fairdale	Substation	46	2021-02-03T20:26:01	2021-02-03T21:16:05	0:50:04	Weather	Due to heavy frost and windy conditions, phases slapping together causing momentaries/outages. Field personnel knocked ice off in worst
Fairdale	Substation	46	2021-04-26T04:00:08	2021-04-26T07:27:30	3:27:22	Equip Fail Insulator	AMB audited 4/28/21 - Insulator failed causing pole top to burn off.
Fairdale	Substation	46	2021-04-26T15:59:19	2021-04-26T16:30:29	0:31:10	Equip Fail Conductor	Repairing a down phase
Fairdale	Substation	46	2021-07-03T16:19:14	2021-07-03T17:53:48	1:34:34	Equip Fail Substation	Stormed moved through and Minnkota has issues in their 115kv Sub which is the OTP source in the area.
Fairdale	Substation	46	2021-07-19T19:47:30	2021-07-19T19:47:49	0:00:19	Weather	Weather moved through the area. Lots of lightning
Fairdale	Substation	46	2021-08-28T21:36:17	2021-08-28T21:37:25	0:01:08	Unknown	Unknown. Weather moved through the area
Fairdale	Substation	46	2021-09-01T07:16:12	2021-09-01T07:17:15	0:01:03	Unknown	unknown
Fairdale	Substation	46	2021-11-08T21:52:26	2021-11-08T21:53:28	0:01:02	Vehicle Accident	Truck Broke Minnkota 115kv/69kv pole causing service to be lost to the area until switching could be done to move source to the 41.6kv.
Fairdale	Substation	45	2021-11-08T23:15:19	2021-11-08T23:17:23	0:02:04	Vehicle Accident	Truck Broke Minnkota 115kv/69kv pole causing service to be lost to the area until switching could be done to move source to the 41.6kv.
Fairdale	Substation	45	2021-11-08T23:18:18	2021-11-09T00:43:46	1:25:28	Vehicle Accident	Truck Broke Minnkota 115kv/69kv pole causing service to be lost to the area until switching could be done to move source to the 41.6kv.
Fairmount	Substation	57	2021-06-30T06:26:17	2021-06-30T06:59:10	0:32:53	Equip Fail Substation	Outage caused by problem at Dome Substation near Wheaton MN not an OTP issue
Fairmount	Substation	57	2021-07-19T19:56:49	2021-07-19T19:57:16	0:00:27	Weather	Small thunder storm in the area with a lightning strike opened breakers.
Fairmount	Substation	57	2021-07-20T15:29:53	2021-07-20T15:31:27	0:01:34	Lightning	Lightning from previous night took out regulator for we had to take a flash outage to take regulator out of service.
Fairmount	Substation	57	2021-07-24T00:24:59	2021-07-24T00:25:21	0:00:22	Weather	Strong thunder storms in the whole area, had to isolate and restore by areas. Christine sub had damage so it took longer to restore that town.
Fairmount	Substation	57	2021-07-25T12:04:06	2021-07-25T12:05:40	0:01:34	Equip Fail Pole	2 rotten poles on 115 South of Dumont fell over sometime after Friday storm and they finally tripped the system as line was approx. 18 inches
Fairmount	Substation	57	2021-07-26T02:31:34	2021-07-26T02:32:00	0:00:26	Unknown	We patrolled and could not find anything the SEL was the same area as the 2 broken poles.
Fairmount_City_and_SonoraFeeder	Feeder	249	2021-06-30T06:26:17	2021-06-30T06:59:10	0:32:53	Equip Fail Substation	Outage caused by problem at Dome Substation near Wheaton MN not an OTP issue
Fairmount_City_and_SonoraFeeder	Feeder	249	2021-07-19T19:56:49	2021-07-19T19:57:16	0:00:27	Weather	Small thunder storm in the area with a lightning strike opened breakers.
Fairmount_City_and_SonoraFeeder	Feeder	249	2021-07-20T15:29:53	2021-07-20T15:31:27	0:01:34	Lightning	Lightning from previous night took out regulator for we had to take a flash outage to take regulator out of service.
Fairmount_City_and_SonoraFeeder	Feeder	249	2021-07-24T00:24:59	2021-07-24T00:25:21	0:00:22	Weather	Strong thunder storms in the whole area, had to isolate and restore by areas. Christine sub had damage so it took longer to restore that town.
Fairmount_City_and_SonoraFeeder	Feeder	249	2021-07-25T12:04:06	2021-07-25T12:05:40	0:01:34	Equip Fail Pole	2 rotten poles on 115 South of Dumont fell over sometime after Friday storm and they finally tripped the system as line was approx. 18 inches
Fairmount_City_and_SonoraFeeder	Feeder	225	2021-07-26T02:31:45	2021-07-26T02:32:00	0:00:15	Unknown	We patrolled and could not find anything the SEL was the same area as the 2 broken poles.
Fairmount_WhiteRock_and_RuralFeeder	Feeder	1	2021-08-10T08:19:29	2021-08-10T08:19:38	0:00:09	Unknown	No customer calls
Falkirk	Substation	31	2021-06-08T21:52:08	2021-06-08T22:32:28	0:40:20	Weather	Lightning storm passed through the area causing multiple area's to have a blink.
Falkirk	Substation	31	2021-09-29T12:56:46	2021-09-29T13:41:19	0:44:33	Lightning	2 poles struck by lightning on the 41.6kv. Poles have been changed out and should be good now.
Fessenden_Hamberg	Substation	453	2021-05-16T02:56:27	2021-05-16T02:56:51	0:00:24	Unknown	SRep could not find a cause when patrolling
Fessenden_Hamberg	Substation	453	2021-07-12T06:40:36	2021-07-12T06:40:42	0:00:06	Weather	Rain and high gusts during the morning caused multiple blinks throughout the region
Fessenden_Hamberg	Substation	453	2021-08-20T00:57:22	2021-08-20T00:57:47	0:00:25	Lightning	Lightning blew an arrester in the substation

Fessenden_Hamberg	Substation	453	2021-11-13T15:06:21	2021-11-13T15:06:42	0:00:21		
Fessenden_Hamberg	Substation	453	2021-11-13T15:11:23	2021-11-13T15:11:46	0:00:23		
Fessenden_Hamberg	Substation	453	2021-12-31T23:44:31	2022-01-01T00:36:51	0:52:20		
Fessenden_Hamberg_WestFeeder	Feeder	212	2021-12-08T23:43:04	2021-12-08T23:43:10	0:00:06		
Fessenden_Hamberg_WestFeeder	Feeder	212	2021-12-08T23:50:45	2021-12-08T23:50:52	0:00:07		
Fessenden_Hamberg_WestFeeder	Feeder	212	2021-12-08T23:54:17	2021-12-08T23:54:24	0:00:07		
Fessenden_Hamberg_WestFeeder	Feeder	212	2021-12-08T23:55:28	2021-12-09T02:18:22	2:22:54		
Fessenden_Rural	Substation	2	2021-02-02T15:47:18	2021-02-02T15:47:34	0:00:16	Unknown	SRep could not find an exact cause of blink
Fessenden_Rural	Substation	2	2021-02-22T15:24:41	2021-02-22T16:01:35	0:36:54	Equip Fail Insulator	Insulator failed and burned the pole as well. SReps were able to fix.
Fessenden_Rural	Substation	2	2021-10-27T15:20:22	2021-10-27T15:20:27	0:00:05		
Fessenden_Rural	Substation	2	2021-10-27T17:46:33	2021-10-27T17:46:39	0:00:06		
Fessenden_Rural	Substation	2	2021-11-15T10:35:57	2021-11-15T11:14:07	0:38:10	Planned	Planned outage to prep for the full substation cutover outage coming up
Fessenden_Rural	Substation	2	2021-11-17T15:37:10	2021-11-17T16:05:51	0:28:41	Planned	this was a planned outage to cut over to the new substation we are building.
Fingal_Rural	Substation	258	2021-01-06T09:47:20	2021-01-06T09:47:37	0:00:17	Animal	Squirrel
Fingal_Rural	Substation	258	2021-02-02T21:28:38	2021-02-02T21:29:02	0:00:24	Weather	Frost and ice along with 40 plus MPH winds caused galloping lines and broken wires between spans.
Fingal_Rural	Substation	258	2021-02-02T21:38:37	2021-02-02T21:38:48	0:00:11	Weather	Frost and ice along with 40 plus MPH winds caused galloping lines and broken wires between spans.
Fingal_Rural	Substation	258	2021-02-03T18:42:25	2021-02-03T18:42:37	0:00:12	Weather	Frost and ice along with high winds
Fingal_Rural	Substation	258	2021-02-03T18:43:18	2021-02-03T21:48:17	3:04:59	Weather	AMB audited 2/26/21 - Frost and ice along with high winds caused several outages in this area.
Fingal_Rural	Substation	258	2021-02-18T12:39:16	2021-02-18T12:59:23	0:20:07	Planned	Had to replace power source to this meter no customers were out.
Fingal_Rural	Substation	258	2021-03-25T14:41:33	2021-03-25T14:42:34	0:01:01	Unknown	We do not believe there was an outage as there were no customer calls
Fingal_Rural	Substation	258	2021-04-25T20:07:43	2021-04-25T20:08:04	0:00:21	Equip Fail Insulator	Cracked insulator caused pole top fire causing outage.
Fingal_Rural	Substation	258	2021-05-12T23:35:52	2021-05-12T23:35:56	0:00:04	Unknown	No customer reported the outage.
Fingal_Rural	Substation	258	2021-06-24T08:08:55	2021-06-24T08:09:04	0:00:09	Unknown	No customer calls and line was patrolled and nothing was found.
Fingal_Rural	Substation	258	2021-08-05T06:58:28	2021-08-05T06:58:36	0:00:08	Animal	Squirrel on transformer
Fingal_Rural	Substation	258	2021-08-16T05:57:49	2021-08-16T05:57:55	0:00:06	Unknown	No customer calls.
Fingal_Rural	Substation	258	2021-08-24T01:32:38	2021-08-24T01:32:44	0:00:06	Weather	Thunder storms in the area with a lot of lightning and strong winds.
Fingal_Rural	Substation	258	2021-08-24T01:54:11	2021-08-24T01:54:17	0:00:06	Weather	Thunder storms in the area with a lot of lightning and strong winds.
Fingal_Rural	Substation	258	2021-08-28T10:04:13	2021-08-28T10:04:18	0:00:05	Unknown	Lines will be patrolled lots of birds in the area i will update if cause is found.
Fingal_Rural	Substation	258	2021-08-29T09:08:39	2021-08-29T11:08:21	1:59:42	Unknown	Lines will be patrolled lots of birds in the area i will update if cause is found.

Fingal_Rural	Substation	258	2021-09-24T04:25:25	2021-09-24T04:25:29	0:00:04	Unknown	No customer calls
Fingal_Rural	Substation	258	2021-10-02T13:45:52	2021-10-02T16:19:44	2:33:52	Equip Fail Conductor	AMB audit 10/25/21 - Hot line clamp burnt off causing the outage.
Fingal_Rural	Substation	258	2021-10-04T15:37:11	2021-10-04T15:37:38	0:00:27	Unknown	No customer calls
Fingal_Rural	Substation	258	2021-10-09T15:28:18	2021-10-09T15:28:24	0:00:06	Weather	Thunder storms and lightning in the area.
Fingal_Rural	Substation	258	2021-10-30T14:11:16	2021-10-30T14:11:23	0:00:07	Unknown	No customer calls
Fingal_Rural	Substation	258	2021-11-03T07:09:42	2021-11-03T07:09:49	0:00:07	Unknown	Line was patrolled and no cause found
Fingal_Rural	Substation	258	2021-11-17T09:12:21	2021-11-17T09:12:28	0:00:07	Equip Fail Insulator	Floater on the Minn Kota 69kv line caused multiple bumps
Fingal_Rural	Substation	258	2021-11-17T09:22:44	2021-11-17T09:22:51	0:00:07	Equip Fail Insulator	Floater on the Minn Kota 69kv line caused multiple bumps
Fingal_Rural	Substation	258	2021-11-17T09:24:46	2021-11-17T09:24:53	0:00:07	Equip Fail Insulator	Floater on the Minn Kota 69kv line caused multiple bumps
Fingal_Rural	Substation	258	2021-11-17T09:40:23	2021-11-17T09:41:01	0:00:38	Equip Fail Insulator	Floater on the Minn Kota 69kv line caused multiple bumps
Fingal_Rural	Substation	258	2021-12-02T13:38:03	2021-12-02T13:38:10	0:00:07	Planned	Switching over so we can work the line.
Fingal_Rural	Substation	258	2021-12-09T23:04:40	2021-12-10T01:01:10	1:56:30	Equip Fail Substation	PT in substation failed.
Fingal_Rural	Substation	258	2021-12-15T12:29:37	2021-12-15T13:19:29	0:49:52	Equip Fail Substation	High side disconnect failed in sub
Finley	Substation	280	2021-02-07T19:13:44	2021-02-07T19:14:25	0:00:41	Equip Fail Conductor	41.6kv phase burned down mid span south of Pekin. McVilleville Breaker communication did not work and McVilleville Jct Motor Operator switch
Finley	Substation	280	2021-02-07T19:15:05	2021-02-07T19:30:48	0:15:43	Equip Fail Conductor	41.6kv phase burned down mid span south of Pekin. McVilleville Breaker communication did not work and McVilleville Jct Motor Operator switch
Finley	Substation	280	2021-03-23T20:39:41	2021-03-23T20:56:06	0:16:25	Equip Fail Insulator	Broken Insulator on 41.6kv line between Aneta and Finley
Finley	Substation	280	2021-05-02T13:11:01	2021-05-02T13:11:14	0:00:13	Unknown	Unknown
Finley	Substation	280	2021-05-30T12:25:15	2021-05-30T12:25:37	0:00:22	Unknown	Unknown
Finley	Substation	280	2021-06-26T17:03:54	2021-06-26T17:04:12	0:00:18	Unknown	Unknown
Finley	Substation	280	2021-06-27T16:03:07	2021-06-27T16:04:10	0:01:03	Unknown	Unknown
Finley	Substation	280	2021-07-19T13:22:55	2021-07-19T13:23:52	0:00:57	Weather	Weather moved through the area. Lots of lightning
Finley	Substation	280	2021-08-09T21:06:31	2021-08-09T21:06:49	0:00:18	Vegetation	Severe storm moved through causing tree to fall into 41.6kv line
Finley	Substation	280	2021-08-20T08:04:56	2021-08-20T08:05:57	0:01:01	Unknown	Unknown
Finley	Substation	280	2021-08-31T16:14:03	2021-08-31T16:14:19	0:00:16	Unknown	Unknown
Finley	Substation	280	2021-12-31T08:51:56	2021-12-31T09:15:06	0:23:10	Equip Fail Conductor	Broken splice on conductor
Finley_WestFeeder	Feeder	118	2021-06-11T04:23:32	2021-06-11T05:39:35	1:16:03	Equip Fail Pole	41.6kv broke in storm
Finley_WestFeeder	Feeder	118	2021-07-19T13:17:57	2021-07-19T13:18:07	0:00:10	Weather	Weather moved through the area. Lots of Momentaries - Lightning
Fordville	Substation	331	2021-01-14T12:07:14	2021-01-14T12:07:36	0:00:22	Weather	High winds with icing of lines causing phases to slap together.
Fordville	Substation	331	2021-05-19T20:31:07	2021-05-19T20:31:33	0:00:26	Weather	Storm Front moving through the area

Fordville	Substation	331	2021-08-02T08:02:33	2021-08-02T08:03:36	0:01:03	Unknown	Unknown
Fordville	Substation	331	2021-08-09T15:36:07	2021-08-09T15:36:31	0:00:24	Weather	Severe storm moved through the area
Fordville	Substation	331	2021-08-23T09:41:30	2021-08-23T09:41:54	0:00:24	Unknown	Unknown
Fordville	Substation	331	2021-09-20T17:06:14	2021-09-20T17:06:41	0:00:27	Unknown	Unknown
Fordville	Substation	331	2021-10-22T11:23:00	2021-10-22T11:23:28	0:00:28	Unknown	unknown
Fordville	Substation	331	2021-11-24T01:53:16	2021-11-24T01:53:31	0:00:15	Unknown	Unknown
Fordville	Substation	331	2021-11-24T11:23:25	2021-11-24T11:23:40	0:00:15	Unknown	Unknown
Fordville_FordvilleFeeder	Feeder	161	2021-12-14T15:59:15	2021-12-14T16:42:14	0:42:59	Planned	Planned outage for installation of new motor operators
Forest_River	Substation	84	2021-01-14T12:07:17	2021-01-14T12:07:21	0:00:04		
Forest_River	Substation	84	2021-05-19T20:31:08	2021-05-19T20:31:17	0:00:09		
Forest_River	Substation	84	2021-08-02T08:02:31	2021-08-02T08:02:39	0:00:08		
Forest_River	Substation	84	2021-08-09T15:36:09	2021-08-09T15:36:15	0:00:06		
Forest_River	Substation	84	2021-08-23T09:41:34	2021-08-23T09:41:38	0:00:04		
Forest_River	Substation	84	2021-09-20T17:06:15	2021-09-20T17:06:22	0:00:07		
Forest_River	Substation	84	2021-10-22T11:23:02	2021-10-22T11:23:08	0:00:06		
Forest_River	Substation	84	2021-11-24T01:53:26	2021-11-24T01:53:32	0:00:06		
Forest_River	Substation	84	2021-11-24T11:23:37	2021-11-24T11:23:42	0:00:05		
Forman	Substation	351	2021-07-20T08:59:06	2021-07-20T08:59:15	0:00:09	Animal	Squirrel on a transformer caused the blink
Forman	Substation	351	2021-08-24T13:11:15	2021-08-24T13:11:25	0:00:10	Unknown	Patrol found nothing.
Forman	Substation	351	2021-08-26T10:10:21	2021-08-26T10:10:49	0:00:28	Weather	Strong storms with lightning and strong winds caused numerous outages.
Forman	Substation	351	2021-08-26T10:14:16	2021-08-26T10:14:23	0:00:07	Weather	Strong storms with lightning and strong winds caused numerous outages.
Forman	Substation	351	2021-10-10T10:36:05	2021-10-10T10:36:19	0:00:14	Equip Fail Cutout	Burnt up cut out.
Fort_Totten	Substation	42	2021-06-05T17:31:21	2021-06-05T17:39:07	0:07:46	Equip Fail Insulator	Insulator tracked across burning pole top off
Fort_Totten	Substation	42	2021-06-06T08:59:09	2021-06-06T09:01:51	0:02:42	Weather	Severe storm moved through with high winds. Broken insulators and failed breaker in SW.
Fort_Totten	Substation	42	2021-06-11T03:37:38	2021-06-11T03:38:24	0:00:46	Weather	Severe Storm moved through the area.
Fort_Totten	Substation	42	2021-08-17T08:10:42	2021-08-17T08:11:05	0:00:23	Unknown	Unknown
Fort_Totten	Substation	42	2021-08-20T02:15:56	2021-08-20T02:17:00	0:01:04	Unknown	Unknown
Fort_Totten	Substation	42	2021-09-13T12:39:44	2021-09-13T12:40:06	0:00:22	Unknown	Unknown
Fort_Totten	Substation	42	2021-09-20T19:18:46	2021-09-20T19:19:13	0:00:27	Unknown	Unknown

Fort_Totten_NorthFeeder	Feeder	3	2021-06-11T03:40:41	2021-06-11T03:40:48	0:00:07	Weather	Severe Storm moved through the area.
Fort_Totten_Rural	Substation	6	2021-06-05T17:31:20	2021-06-05T18:48:12	1:16:52	Equip Fail Insulator	Insulator tracked across burning pole top off
Fort_Totten_Rural	Substation	6	2021-06-06T08:59:08	2021-06-06T09:01:37	0:02:29	Weather	Severe storm moved through with high winds. Broken insulators and failed breaker in SW.
Fort_Totten_Rural	Substation	6	2021-06-11T03:37:37	2021-06-11T03:38:10	0:00:33	Weather	Severe Storm moved through the area.
Fort_Totten_Rural	Substation	6	2021-08-17T08:10:42	2021-08-17T08:10:49	0:00:07	Unknown	Unknown
Fort_Totten_Rural	Substation	6	2021-08-20T02:15:56	2021-08-20T02:17:00	0:01:04	Unknown	Unknown
Fort_Totten_Rural	Substation	6	2021-09-13T12:39:39	2021-09-13T12:39:46	0:00:07	Unknown	Unknown
Fort_Totten_Rural	Substation	6	2021-09-20T19:18:45	2021-09-20T19:18:53	0:00:08	Unknown	Unknown
Gackle	Substation	286	2021-01-14T11:54:11	2021-01-14T11:54:22	0:00:11	Equip Fail Insulator	Broken insulator approximately 3 miles west of Gackle. Strong wind gusts 50-60 mph.
Gackle	Substation	287	2021-02-02T07:29:22	2021-02-02T09:46:20	2:16:58	Weather	AMB audited 2/26/21 - Heavy frost on the conductors caused momentary and sustained outages when the wind blew..
Gackle	Substation	287	2021-02-02T20:51:00	2021-02-02T20:51:12	0:00:12	Weather	Heavy frost on the conductors caused momentary and sustained outages when the wind blew..
Gackle	Substation	287	2021-02-02T21:03:04	2021-02-02T21:03:16	0:00:12	Weather	Heavy frost on the conductors caused momentary and sustained outages when the wind blew..
Gackle	Substation	287	2021-02-03T00:29:49	2021-02-03T00:30:01	0:00:12	Weather	Heavy frost on the conductors caused momentary and sustained outages when the wind blew..
Gackle	Substation	287	2021-02-03T06:33:59	2021-02-03T06:34:11	0:00:12	Weather	Heavy frost on the conductors caused momentary and sustained outages when the wind blew..
Gackle	Substation	287	2021-02-03T08:02:27	2021-02-03T08:02:40	0:00:13	Weather	Heavy frost on the conductors caused momentary and sustained outages when the wind blew..
Gackle	Substation	287	2021-02-03T09:29:17	2021-02-03T09:30:16	0:00:59	Weather	Heavy frost on the conductors caused momentary and sustained outages when the wind blew..
Gackle	Substation	287	2021-02-03T11:03:21	2021-02-03T11:03:39	0:00:18	Weather	Heavy frost on the conductors caused momentary and sustained outages when the wind blew..
Gackle	Substation	287	2021-02-03T12:31:22	2021-02-03T12:43:37	0:12:15	Weather	Heavy frost on the conductors caused momentary and sustained outages when the wind blew..
Gackle	Substation	287	2021-02-03T15:56:12	2021-02-03T16:51:30	0:55:18	Weather	Heavy frost on the conductors caused momentary and sustained outages when the wind blew..
Gackle	Substation	287	2021-02-03T16:52:24	2021-02-03T16:56:34	0:04:10	Weather	Heavy frost on the conductors caused momentary and sustained outages when the wind blew..
Gackle	Substation	287	2021-02-03T17:31:47	2021-02-03T17:40:51	0:09:04	Weather	Heavy frost on the conductors caused momentary and sustained outages when the wind blew..
Gackle	Substation	287	2021-02-03T17:51:29	2021-02-03T17:51:46	0:00:17	Weather	Heavy frost on the conductors caused momentary and sustained outages when the wind blew..
Gackle	Substation	287	2021-02-03T21:00:14	2021-02-03T21:00:29	0:00:15		
Gackle	Substation	287	2021-02-03T21:12:20	2021-02-03T21:12:36	0:00:16	Weather	Heavy frost on the conductors caused momentary and sustained outages when the wind blew..
Gackle	Substation	287	2021-02-04T00:05:08	2021-02-04T00:05:25	0:00:17	Weather	Heavy frost on the conductors caused momentary and sustained outages when the wind blew..
Gackle	Substation	287	2021-02-04T00:18:33	2021-02-04T00:18:50	0:00:17	Weather	Heavy frost on the conductors caused momentary and sustained outages when the wind blew..
Gackle	Substation	287	2021-02-04T00:35:36	2021-02-04T00:36:19	0:00:43	Weather	Heavy frost on the conductors caused momentary and sustained outages when the wind blew..
Gackle	Substation	287	2021-02-04T00:41:55	2021-02-04T00:42:54	0:00:59	Weather	Heavy frost on the conductors caused momentary and sustained outages when the wind blew..
Gackle	Substation	561	2021-02-04T00:44:01	2021-02-04T00:45:00	0:00:59	Weather	Heavy frost on the conductors caused momentary and sustained outages when the wind blew..

Gackle	Substation	287	2021-02-04T00:45:39	2021-02-04T00:46:59	0:01:20	Weather	Heavy frost on the conductors caused momentary and sustained outages when the wind blew..
Gackle	Substation	287	2021-02-04T00:47:29	2021-02-04T00:49:00	0:01:31	Weather	Heavy frost on the conductors caused momentary and sustained outages when the wind blew..
Gackle	Substation	287	2021-02-04T00:49:32	2021-02-04T00:52:17	0:02:45	Weather	Heavy frost on the conductors caused momentary and sustained outages when the wind blew..
Gackle	Substation	287	2021-02-04T00:55:11	2021-02-04T00:55:29	0:00:18	Weather	Heavy frost on the conductors caused momentary and sustained outages when the wind blew..
Gackle	Substation	287	2021-02-04T01:06:34	2021-02-04T01:06:51	0:00:17	Weather	Heavy frost on the conductors caused momentary and sustained outages when the wind blew..
Gackle	Substation	287	2021-02-04T01:22:25	2021-02-04T01:22:42	0:00:17	Weather	Heavy frost on the conductors caused momentary and sustained outages when the wind blew..
Gackle	Substation	287	2021-02-21T11:06:23	2021-02-21T11:06:47	0:00:24	Unknown	Unknown and not investigated.
Gackle	Substation	287	2021-03-30T00:58:04	2021-03-30T00:58:17	0:00:13	Equip Fail Insulator	Broken center phase tie caused conductor to float during extremely high winds.
Gackle	Substation	287	2021-03-30T10:20:34	2021-03-30T10:20:49	0:00:15	Equip Fail Insulator	Broken center phase tie caused conductor to float during extremely high winds.
Gackle	Substation	287	2021-03-30T10:23:38	2021-03-30T10:23:50	0:00:12	Equip Fail Insulator	Broken center phase tie caused conductor to float during extremely high winds.
Gackle	Substation	287	2021-04-11T21:15:54	2021-04-11T21:16:26	0:00:32	Equip Fail Insulator	Insulator failed and tracked causing pole to burn off.
Gackle	Substation	287	2021-05-09T14:22:07	2021-05-09T14:22:21	0:00:14	Vehicle Accident	Farmer rolling beans broke transmission pole approximately .8 mile north of the Nortonville Sub.
Gackle	Substation	287	2021-05-14T21:26:12	2021-05-14T21:26:28	0:00:16	Unknown	Unknown and not patrolled.
Gackle	Substation	287	2021-05-19T23:14:49	2021-05-19T23:15:12	0:00:23	Equip Fail Conductor	Broken center phase mid span on transmission line approximately 1.25 miles west of Windsor I-94 exit.
Gackle	Substation	169	2021-05-22T13:21:33	2021-05-22T13:21:46	0:00:13	Weather	Lightning in the area.
Gackle	Substation	119	2021-05-22T13:21:50	2021-05-22T13:21:56	0:00:06	Weather	Lightning in the area.
Gackle	Substation	287	2021-06-04T20:50:45	2021-06-04T21:16:45	0:26:00	Equip Fail Conductor	Conductor burned down approximately 4 miles north of the Edgeley Switching Station (Ring Bus Sub).
Gackle	Substation	287	2021-06-07T18:58:44	2021-06-07T18:59:50	0:01:06	Weather	Storm in the area.
Gackle	Substation	286	2021-06-07T19:36:14	2021-06-07T19:36:37	0:00:23	Weather	Storm in the area.
Gackle	Substation	287	2021-06-07T19:44:53	2021-06-07T19:45:17	0:00:24	Weather	Storm in the area.
Gackle	Substation	287	2021-06-07T19:51:36	2021-06-07T19:51:59	0:00:23	Weather	Storm in the area.
Gackle	Substation	287	2021-06-11T03:24:43	2021-06-11T03:25:05	0:00:22	Weather	Storm in the area.
Gackle	Substation	287	2021-06-11T03:45:14	2021-06-11T03:45:36	0:00:22	Weather	Storm in the area.
Gackle	Substation	287	2021-06-26T18:20:18	2021-06-26T18:21:21	0:01:03	Weather	Storm in the area.
Gackle	Substation	132	2021-08-06T16:53:30	2021-08-06T16:57:31	0:04:01	Weather	Storm in the area.
Gackle	Substation	287	2021-08-07T19:50:10	2021-08-07T19:50:31	0:00:21	Weather	Storm in the area.
Gackle	Substation	287	2021-08-07T20:22:50	2021-08-07T20:23:10	0:00:20	Weather	Storm in the area.
Gackle	Substation	132	2021-08-08T08:31:34	2021-08-08T08:35:31	0:03:57	Unknown	Unknown and not patrolled.
Gackle	Substation	169	2021-08-24T03:30:39	2021-08-24T03:30:50	0:00:11	Weather	Storm in the area.

Gackle	Substation	121	2021-08-24T03:30:52	2021-08-24T03:31:00	0:00:08	Weather	Storm in the area.
Gackle	Substation	287	2021-09-09T15:06:12	2021-09-09T15:06:38	0:00:26	Unknown	Unknown and not investigated.
Gackle	Substation	287	2021-09-13T12:49:08	2021-09-13T12:49:33	0:00:25	Weather	Lightning, rain in the area.
Gackle	Substation	287	2021-09-19T09:25:34	2021-09-19T09:26:00	0:00:26	Unknown	Unknown and not investigated.
Gackle	Substation	132	2021-09-24T12:01:05	2021-09-24T12:07:56	0:06:51	Unknown	Unknown and not investigated.
Gackle	Substation	287	2021-09-29T16:41:38	2021-09-29T16:41:52	0:00:14	Weather	Rain with a lot of lightning in the area.
Gackle	Substation	287	2021-09-29T16:42:54	2021-09-29T16:43:10	0:00:16	Weather	Rain with a lot of lightning in the area.
Gackle	Substation	50	2021-10-06T12:45:08	2021-10-06T13:13:26	0:28:18	other	Electrician working at a customer residence. Only 1 customer impacted.
Gackle	Substation	132	2021-10-11T16:36:28	2021-10-11T16:39:37	0:03:09	other	Electrician working on electrical panel at fire department.
Gackle	Substation	287	2021-11-12T01:59:51	2021-11-12T02:00:04	0:00:13	Unknown	Service Rep checked with a 3-phase customer in Gackle. They did not notice an interruption.
Gackle	Substation	287	2021-11-13T16:47:50	2021-11-13T16:48:03	0:00:13	Unknown	Service Rep checked with a 3-phase customer in Gackle. They did not notice an interruption.
Gackle_Rural_EastFeeder	Feeder	6	2021-02-01T13:56:30	2021-02-01T13:56:35	0:00:05	Weather	Heavy frost on the conductors caused momentary and sustained outages when the wind blew..
Gackle_Rural_EastFeeder	Feeder	6	2021-02-01T15:03:14	2021-02-01T15:03:19	0:00:05	Weather	Heavy frost on the conductors caused momentary and sustained outages when the wind blew..
Gackle_Rural_EastFeeder	Feeder	6	2021-02-02T07:26:51	2021-02-02T07:26:57	0:00:06	Equip Fail Conductor	Heavy frost on the conductors broke a CPEC line in the Gackle area.
Gackle_Rural_EastFeeder	Feeder	6	2021-02-02T19:02:30	2021-02-02T20:36:51	1:34:21	Weather	Heavy frost on the conductors caused momentary and sustained outages when the wind blew..
Gackle_Rural_EastFeeder	Feeder	6	2021-02-02T20:50:56	2021-02-02T20:51:07	0:00:11	Weather	Heavy frost on the conductors caused momentary and sustained outages when the wind blew..
Gackle_Rural_EastFeeder	Feeder	6	2021-02-02T21:03:06	2021-02-02T21:03:12	0:00:06	Weather	Heavy frost on the conductors caused momentary and sustained outages when the wind blew..
Gackle_Rural_EastFeeder	Feeder	6	2021-02-03T00:27:09	2021-02-03T00:29:03	0:01:54	Weather	Heavy frost on the conductors caused momentary and sustained outages when the wind blew..
Gackle_Rural_EastFeeder	Feeder	6	2021-02-03T00:32:08	2021-02-03T00:32:44	0:00:36	Weather	Heavy frost on the conductors caused momentary and sustained outages when the wind blew..
Gackle_Rural_EastFeeder	Feeder	6	2021-02-03T07:34:16	2021-02-03T07:34:23	0:00:07	Weather	Heavy frost on the conductors caused momentary and sustained outages when the wind blew..
Gackle_Rural_EastFeeder	Feeder	6	2021-02-03T08:38:35	2021-02-03T08:38:42	0:00:07	Weather	Heavy frost on the conductors caused momentary and sustained outages when the wind blew..
Gackle_Rural_EastFeeder	Feeder	6	2021-02-03T09:10:45	2021-02-03T09:10:50	0:00:05	Weather	Heavy frost on the conductors caused momentary and sustained outages when the wind blew..
Gackle_Rural_EastFeeder	Feeder	6	2021-02-03T11:03:27	2021-02-03T11:03:35	0:00:08	Weather	Heavy frost on the conductors caused momentary and sustained outages when the wind blew..
Gackle_Rural_EastFeeder	Feeder	6	2021-02-03T12:31:24	2021-02-03T12:43:33	0:12:09	Weather	Heavy frost on the conductors caused momentary and sustained outages when the wind blew..
Gackle_Rural_EastFeeder	Feeder	6	2021-02-03T15:56:13	2021-02-03T16:51:26	0:55:13	Weather	Heavy frost on the conductors caused momentary and sustained outages when the wind blew..
Gackle_Rural_EastFeeder	Feeder	12	2021-02-03T16:52:25	2021-02-03T17:40:48	0:48:23	Weather	Heavy frost on the conductors caused momentary and sustained outages when the wind blew..
Gackle_Rural_EastFeeder	Feeder	6	2021-02-03T17:51:30	2021-02-03T17:51:42	0:00:12	Weather	Heavy frost on the conductors caused momentary and sustained outages when the wind blew..
Gackle_Rural_EastFeeder	Feeder	6	2021-02-03T21:00:19	2021-02-03T21:00:25	0:00:06	Weather	Heavy frost on the conductors caused momentary and sustained outages when the wind blew..
Gackle_Rural_EastFeeder	Feeder	6	2021-02-03T21:12:24	2021-02-03T21:12:31	0:00:07	Weather	Heavy frost on the conductors caused momentary and sustained outages when the wind blew..

Gackle_Rural_EastFeeder	Feeder	6	2021-02-04T00:05:14	2021-02-04T00:05:21	0:00:07	Weather	Heavy frost on the conductors caused momentary and sustained outages when the wind blew..
Gackle_Rural_EastFeeder	Feeder	6	2021-02-04T00:18:33	2021-02-04T00:18:46	0:00:13	Weather	Heavy frost on the conductors caused momentary and sustained outages when the wind blew..
Gackle_Rural_EastFeeder	Feeder	6	2021-02-04T00:35:36	2021-02-04T00:36:15	0:00:39	Weather	Heavy frost on the conductors caused momentary and sustained outages when the wind blew..
Gackle_Rural_EastFeeder	Feeder	6	2021-02-04T00:41:57	2021-02-04T00:42:50	0:00:53	Weather	Heavy frost on the conductors caused momentary and sustained outages when the wind blew..
Gackle_Rural_EastFeeder	Feeder	12	2021-02-04T00:44:08	2021-02-04T00:45:02	0:00:54	Weather	Heavy frost on the conductors caused momentary and sustained outages when the wind blew..
Gackle_Rural_EastFeeder	Feeder	18	2021-02-04T00:45:41	2021-02-04T00:52:13	0:06:32	Weather	Heavy frost on the conductors caused momentary and sustained outages when the wind blew..
Gackle_Rural_EastFeeder	Feeder	6	2021-02-04T00:55:14	2021-02-04T00:55:25	0:00:11	Weather	Heavy frost on the conductors caused momentary and sustained outages when the wind blew..
Gackle_Rural_EastFeeder	Feeder	6	2021-02-04T01:06:34	2021-02-04T01:06:47	0:00:13	Weather	Heavy frost on the conductors caused momentary and sustained outages when the wind blew..
Gackle_Rural_EastFeeder	Feeder	6	2021-02-04T01:22:25	2021-02-04T01:22:38	0:00:13	Weather	Heavy frost on the conductors caused momentary and sustained outages when the wind blew..
Gackle_Rural_EastFeeder	Feeder	6	2021-03-25T13:02:49	2021-03-25T15:30:41	2:27:52	Planned	Planned outage to replace 3 poles at Delmer Sukut, 5634 Hwy 46.
Gackle_Rural_EastFeeder	Feeder	6	2021-05-17T13:35:36	2021-05-17T14:37:35	1:01:59	Planned	AMB audited 5/25/21 - Planned outage to cutover underground to the new overhead line east of the Gackle Rural sub.
Gackle_Rural_EastFeeder	Feeder	6	2021-05-19T22:37:29	2021-05-19T22:46:14	0:08:45	Equip Fail Conductor	Broken center phase mid span on transmission line approximately 1.25 miles west of Windsor I-94 exit.
Gackle_Rural_EastFeeder	Feeder	6	2021-05-19T23:14:48	2021-05-19T23:14:55	0:00:07	Equip Fail Conductor	Broken center phase mid span on transmission line approximately 1.25 miles west of Windsor I-94 exit.
Gackle_Rural_EastFeeder	Feeder	6	2021-06-04T20:09:00	2021-06-04T20:09:08	0:00:08	Weather	Storm in the area.
Gackle_Rural_EastFeeder	Feeder	6	2021-06-07T18:48:12	2021-06-07T18:48:18	0:00:06	Weather	Storm in the area.
Gackle_Rural_EastFeeder	Feeder	6	2021-06-08T01:46:38	2021-06-08T01:46:48	0:00:10	Weather	Storm in the area.
Gackle_Rural_EastFeeder	Feeder	6	2021-06-08T09:29:39	2021-06-08T09:30:41	0:01:02	Weather	Storm in the area.
Gackle_Rural_EastFeeder	Feeder	6	2021-09-25T09:55:01	2021-09-25T09:55:08	0:00:07	Unknown	Unknown and not investigated. No SEL data.
Gackle_Rural_EastFeeder	Feeder	6	2021-12-13T11:01:32	2021-12-13T11:52:44	0:51:12	Planned	Replaced Gackle Rural substation transformer.
Gackle_Rural_MainFeeder	Feeder	10	2021-02-01T13:56:33	2021-02-01T13:56:47	0:00:14	Weather	Heavy frost on the conductors caused momentary and sustained outages when the wind blew..
Gackle_Rural_MainFeeder	Feeder	10	2021-02-01T15:03:17	2021-02-01T15:03:30	0:00:13	Weather	Heavy frost on the conductors caused momentary and sustained outages when the wind blew..
Gackle_Rural_MainFeeder	Feeder	10	2021-02-02T07:26:51	2021-02-02T07:27:08	0:00:17	Equip Fail Conductor	Heavy frost on the conductors broke a CPEC line in the Gackle area.
Gackle_Rural_MainFeeder	Feeder	10	2021-02-02T19:02:31	2021-02-02T20:37:02	1:34:31	Weather	Heavy frost on the conductors caused momentary and sustained outages when the wind blew..
Gackle_Rural_MainFeeder	Feeder	10	2021-02-02T20:51:00	2021-02-02T20:51:19	0:00:19	Weather	Heavy frost on the conductors caused momentary and sustained outages when the wind blew..
Gackle_Rural_MainFeeder	Feeder	10	2021-02-02T21:03:05	2021-02-02T21:03:23	0:00:18	Weather	Heavy frost on the conductors caused momentary and sustained outages when the wind blew..
Gackle_Rural_MainFeeder	Feeder	10	2021-02-03T00:27:19	2021-02-03T00:29:14	0:01:55	Weather	Heavy frost on the conductors caused momentary and sustained outages when the wind blew..
Gackle_Rural_MainFeeder	Feeder	10	2021-02-03T00:32:11	2021-02-03T00:32:55	0:00:44	Weather	Heavy frost on the conductors caused momentary and sustained outages when the wind blew..
Gackle_Rural_MainFeeder	Feeder	10	2021-02-03T07:34:16	2021-02-03T07:34:34	0:00:18	Weather	Heavy frost on the conductors caused momentary and sustained outages when the wind blew..
Gackle_Rural_MainFeeder	Feeder	10	2021-02-03T08:38:35	2021-02-03T08:38:53	0:00:18	Weather	Heavy frost on the conductors caused momentary and sustained outages when the wind blew..

Gackle_Rural_MainFeeder	Feeder	10	2021-02-03T09:10:43	2021-02-03T09:11:01	0:00:18	Weather	Heavy frost on the conductors caused momentary and sustained outages when the wind blew..
Gackle_Rural_MainFeeder	Feeder	10	2021-02-03T11:03:26	2021-02-03T11:03:46	0:00:20	Weather	Heavy frost on the conductors caused momentary and sustained outages when the wind blew..
Gackle_Rural_MainFeeder	Feeder	10	2021-02-03T12:31:22	2021-02-03T12:43:44	0:12:22	Weather	Heavy frost on the conductors caused momentary and sustained outages when the wind blew..
Gackle_Rural_MainFeeder	Feeder	10	2021-02-03T15:56:16	2021-02-03T16:51:37	0:55:21	Weather	Heavy frost on the conductors caused momentary and sustained outages when the wind blew..
Gackle_Rural_MainFeeder	Feeder	10	2021-02-03T16:52:36	2021-02-03T17:40:58	0:48:22	Weather	Heavy frost on the conductors caused momentary and sustained outages when the wind blew..
Gackle_Rural_MainFeeder	Feeder	10	2021-02-03T17:51:30	2021-02-03T17:51:53	0:00:23	Weather	Heavy frost on the conductors caused momentary and sustained outages when the wind blew..
Gackle_Rural_MainFeeder	Feeder	10	2021-02-03T21:00:14	2021-02-03T21:00:37	0:00:23	Weather	Heavy frost on the conductors caused momentary and sustained outages when the wind blew..
Gackle_Rural_MainFeeder	Feeder	10	2021-02-03T21:12:20	2021-02-03T21:12:43	0:00:23	Weather	Heavy frost on the conductors caused momentary and sustained outages when the wind blew..
Gackle_Rural_MainFeeder	Feeder	10	2021-02-04T00:05:08	2021-02-04T00:05:32	0:00:24	Weather	Heavy frost on the conductors caused momentary and sustained outages when the wind blew..
Gackle_Rural_MainFeeder	Feeder	10	2021-02-04T00:18:33	2021-02-04T00:18:57	0:00:24	Weather	Heavy frost on the conductors caused momentary and sustained outages when the wind blew..
Gackle_Rural_MainFeeder	Feeder	10	2021-02-04T00:35:36	2021-02-04T00:36:26	0:00:50	Weather	Heavy frost on the conductors caused momentary and sustained outages when the wind blew..
Gackle_Rural_MainFeeder	Feeder	10	2021-02-04T00:42:07	2021-02-04T00:43:01	0:00:54	Weather	Heavy frost on the conductors caused momentary and sustained outages when the wind blew..
Gackle_Rural_MainFeeder	Feeder	20	2021-02-04T00:44:14	2021-02-04T00:45:08	0:00:54	Weather	Heavy frost on the conductors caused momentary and sustained outages when the wind blew..
Gackle_Rural_MainFeeder	Feeder	30	2021-02-04T00:45:51	2021-02-04T00:52:24	0:06:33	Weather	Heavy frost on the conductors caused momentary and sustained outages when the wind blew..
Gackle_Rural_MainFeeder	Feeder	10	2021-02-04T00:55:25	2021-02-04T00:55:36	0:00:11	Weather	Heavy frost on the conductors caused momentary and sustained outages when the wind blew..
Gackle_Rural_MainFeeder	Feeder	10	2021-02-04T01:06:34	2021-02-04T01:06:58	0:00:24	Weather	Heavy frost on the conductors caused momentary and sustained outages when the wind blew..
Gackle_Rural_MainFeeder	Feeder	10	2021-02-04T01:22:25	2021-02-04T01:22:49	0:00:24	Weather	Heavy frost on the conductors caused momentary and sustained outages when the wind blew..
Gackle_Rural_MainFeeder	Feeder	10	2021-05-19T22:37:37	2021-05-19T22:46:23	0:08:46	Equip Fail Conductor	Broken center phase mid span on transmission line approximately 1.25 miles west of Windsor I-94 exit.
Gackle_Rural_MainFeeder	Feeder	10	2021-05-19T23:14:57	2021-05-19T23:15:04	0:00:07	Equip Fail Conductor	Broken center phase mid span on transmission line approximately 1.25 miles west of Windsor I-94 exit.
Gackle_Rural_MainFeeder	Feeder	10	2021-06-04T20:09:08	2021-06-04T20:09:16	0:00:08	Weather	Storm in the area.
Gackle_Rural_MainFeeder	Feeder	10	2021-06-07T18:48:20	2021-06-07T18:48:28	0:00:08	Weather	Storm in the area.
Gackle_Rural_MainFeeder	Feeder	10	2021-06-08T01:46:52	2021-06-08T01:46:58	0:00:06	Weather	Storm in the area.
Gackle_Rural_MainFeeder	Feeder	10	2021-06-08T09:29:46	2021-06-08T09:29:53	0:00:07	Weather	Storm in the area.
Gackle_Rural_MainFeeder	Feeder	10	2021-09-25T09:55:09	2021-09-25T09:55:17	0:00:08	Unknown	Unknown and not investigated. No SEL data.
Gackle_Rural_MainFeeder	Feeder	10	2021-12-08T12:40:40	2021-12-08T14:32:31	1:51:51	Planned	Replaced riser pole at Rivinius farm. Only 1 customer affected.
Gackle_Rural_MainFeeder	Feeder	10	2021-12-09T11:04:24	2021-12-09T15:54:33	4:50:09	Planned	Repole, reconductor and cutover iron primary & neutral to 1/0 ACSR for Rivinius farm.
Gackle_Rural_MainFeeder	Feeder	10	2021-12-13T11:01:30	2021-12-13T11:52:31	0:51:01	Planned	Replaced Gackle Rural substation transformer.
Galchutt	Substation	29	2021-01-07T11:44:22	2021-01-07T11:44:29	0:00:07	Unknown	line was patrolled and no cause was found
Galchutt	Substation	29	2021-01-15T10:14:21	2021-01-15T10:14:31	0:00:10	Weather	We had heavy frost and some ice along with strong winds and lines were galloping.

Galchutt	Substation	29	2021-06-07T22:46:14	2021-06-07T22:51:04	0:04:50	Weather	Storms traveled through the area with winds heavy rain and lots of lightning.
Galchutt	Substation	29	2021-07-11T04:10:34	2021-07-11T04:11:00	0:00:26	Equip Fail Arrestor	High Side arrestor was blown in Christine Sub. line was patrolled and nothing was found.
Galchutt	Substation	29	2021-07-24T00:57:49	2021-07-24T00:57:58	0:00:09	Weather	Strong thunder storms in the whole area, had to isolate and restore by areas. Christine sub had damage so it took longer to restore that town.
Galchutt	Substation	29	2021-07-24T01:32:43	2021-07-24T01:37:55	0:05:12	Weather	Strong thunder storms in the whole area, had to isolate and restore by areas. Christine sub had damage so it took longer to restore that town.
Galchutt	Substation	29	2021-08-24T02:43:59	2021-08-24T02:44:08	0:00:09	Weather	Thunder storms in the area with a lot of lightning and strong winds.
Galchutt	Substation	29	2021-08-24T03:58:34	2021-08-24T03:58:43	0:00:09	Weather	Thunder storms in the area with a lot of lightning and strong winds.
Galchutt	Substation	29	2021-09-19T21:21:46	2021-09-19T21:21:52	0:00:06	Equip Fail Insulator	Cracked insulator was allowing tracking to the cross arm.
Galesburg_Clifford	Substation	174	2021-05-01T09:03:58	2021-05-01T09:04:42	0:00:44	Unknown	SEL is 13.0 miles from Buffalo 745. Patrolled but cause not known.
Galesburg_Clifford	Substation	124	2021-07-10T06:43:11	2021-07-10T06:43:28	0:00:17	Unknown	Unknown and not investigated.
Galesburg_Clifford	Substation	174	2021-12-09T23:04:59	2021-12-10T00:42:17	1:37:18	Equip Fail Substation	SEL 12.8 miles from Buffalo 345 kv sub breaker 745. Found failed PT on the 41.6 kv bay in the sub.
Gardena	Substation	28	2021-05-24T17:35:35	2021-05-24T18:13:14	0:37:39	Equip Fail Insulator	Broken insulator
Gardena	Substation	28	2021-07-06T13:16:21	2021-07-06T13:24:44	0:08:23	other	Sub Tech inadvertently caused outage again.
Gardena	Substation	28	2021-08-28T13:39:27	2021-08-28T13:39:31	0:00:04	Unknown	SRep could not find any cause, but due to the area is pretty sure a squirrel is the cause but unconfirmed.
Gardena	Substation	28	2021-09-29T08:54:54	2021-09-29T09:20:30	0:25:36	other	T2 line ended up getting shot at from what the crew could tell and broke one of the 2 wires which caused them to unwrap and slap
Gardena	Substation	28	2021-10-22T14:33:20	2021-10-22T14:33:27	0:00:07		
Garrison	Substation	892	2021-02-02T03:15:01	2021-02-02T03:15:18	0:00:17	Equip Fail Insulator	pole top and cross arm burned from failed insulator. Guy wire pulled trough burning pole and fell on energized phase and bumped the
Garrison	Substation	892	2021-02-02T14:01:06	2021-02-02T15:16:49	1:15:43	Equip Fail Insulator	AMB audited 3/1/21 - Failed insulators caused pole top and cross arm to burn. Took a planned outage to make repairs.
Garrison	Substation	892	2021-02-23T04:36:11	2021-02-23T04:43:44	0:07:33	other	I was told by Dispatch that WAPA had trouble on their 115 kv line so they switched to the CEPEC Mallard station for source to supply power
Garrison_Stone_Inn	Substation	1	2021-02-02T03:15:03	2021-02-02T03:15:07	0:00:04	Unknown	SRep could not find an exact cause of blink
Garrison_Stone_Inn	Substation	1	2021-02-02T04:14:55	2021-02-02T15:38:04	11:23:09	Equip Fail Pole	AMB audited 3/1/21 - Pole caught on fire due to heavy frost build up. Had to be out until the pole that had caught on fire was fixed.
Garrison_Stone_Inn	Substation	1	2021-02-23T04:36:22	2021-02-23T04:43:43	0:07:21	Equip Fail Insulator	Insulator failure causing a pole fire.
Garrison_WestFeeder	Feeder	119	2021-12-22T16:19:24	2021-12-22T16:19:31	0:00:07		
Garrison_WestFeeder	Feeder	119	2021-12-27T13:25:01	2021-12-27T13:25:07	0:00:06		
Geneseo	Substation	29	2021-06-10T00:37:34	2021-06-10T01:26:08	0:48:34	Equip Fail Insulator	Broken insulator near Rutland so we had to switch this out.
Geneseo	Substation	29	2021-08-16T12:52:41	2021-08-16T12:52:49	0:00:08	Unknown	Transmission issue line patrol was done but we did not find anything.
Geneseo	Substation	29	2021-08-20T07:13:30	2021-08-20T07:13:44	0:00:14	Unknown	Transmission issue patrol was done.
Geneseo	Substation	29	2021-08-24T02:03:29	2021-08-24T02:03:46	0:00:17	Weather	Thunder storms in the area with a lot of lightning and strong winds.
Geneseo	Substation	29	2021-08-24T02:20:38	2021-08-24T02:20:47	0:00:09	Weather	Thunder storms in the area with a lot of lightning and strong winds.
Geneseo	Substation	29	2021-08-26T08:07:16	2021-08-26T08:07:45	0:00:29	Weather	Strong storms with lightning and strong winds caused numerous outages.

Geneseo	Substation	29	2021-08-29T18:36:50	2021-08-29T18:38:00	0:01:10	Unknown	Lines will be patrolled lots of birds in the area i will update if cause is found.
Geneseo	Substation	29	2021-09-03T12:39:50	2021-09-03T12:39:57	0:00:07	Unknown	Transmission issue hit 3 different towns miles apart.
Geneseo	Substation	29	2021-10-13T16:08:14	2021-10-13T16:08:22	0:00:08	Weather	Severe storm was rolling through the area with strong winds and heavy rain.
Geneseo	Substation	29	2021-10-13T16:19:25	2021-10-13T16:19:35	0:00:10	Weather	Severe storm was rolling through the area with strong winds and heavy rain.
Geneseo	Substation	15	2021-12-08T12:43:45	2021-12-08T13:51:12	1:07:27	Planned	Working on the substation.
Gilby_Orr_Jct	Substation	96	2021-01-14T12:07:12	2021-01-14T12:07:24	0:00:12		
Gilby_Orr_Jct	Substation	96	2021-05-19T20:31:12	2021-05-19T20:31:33	0:00:21		
Gilby_Orr_Jct	Substation	96	2021-07-15T14:09:42	2021-07-15T14:10:00	0:00:18		
Gilby_Orr_Jct	Substation	96	2021-08-02T08:02:34	2021-08-02T08:02:54	0:00:20		
Gilby_Orr_Jct	Substation	96	2021-08-09T15:36:10	2021-08-09T15:36:29	0:00:19		
Gilby_Orr_Jct	Substation	96	2021-08-23T09:41:34	2021-08-23T09:41:52	0:00:18		
Gilby_Orr_Jct	Substation	96	2021-09-20T17:06:12	2021-09-20T17:06:23	0:00:11		
Gilby_Orr_Jct	Substation	96	2021-10-22T11:23:01	2021-10-22T11:24:07	0:01:06		
Gilby_Orr_Jct	Substation	96	2021-10-30T14:57:50	2021-10-30T16:37:05	1:39:15		
Gilby_Orr_Jct	Substation	96	2021-11-24T01:53:06	2021-11-24T01:53:31	0:00:25		
Gilby_Orr_Jct	Substation	96	2021-11-24T11:23:17	2021-11-24T11:24:20	0:01:03	Vandalism	Tractor hit pole and broke it off
Glenburn	Substation	340	2021-01-14T03:22:46	2021-01-14T03:23:03	0:00:17	Weather	High wind and moisture caused conductors to gallop and slap together throughout the region
Glenburn	Substation	340	2021-01-14T03:55:04	2021-01-14T03:55:23	0:00:19	Weather	High wind and moisture caused conductors to gallop and slap together throughout the region
Glenburn	Substation	340	2021-01-14T04:27:42	2021-01-14T04:28:01	0:00:19	Weather	High wind and moisture caused conductors to gallop and slap together throughout the region
Glenburn	Substation	340	2021-01-14T05:26:00	2021-01-14T05:26:19	0:00:19	Weather	High wind and moisture caused conductors to gallop and slap together throughout the region
Glenburn	Substation	340	2021-01-14T05:38:19	2021-01-14T05:38:37	0:00:18	Weather	High wind and moisture caused conductors to gallop and slap together throughout the region
Glenburn	Substation	340	2021-01-14T06:06:26	2021-01-14T06:06:45	0:00:19	Unknown	SRep could not find a cause
Glenburn	Substation	128	2021-06-06T00:39:39	2021-06-06T00:39:47	0:00:08	Weather	Storms were moving across north and central ND causing blinks
Glenburn	Substation	222	2021-06-06T00:39:48	2021-06-06T00:40:00	0:00:12	Weather	Storms were moving across north and central ND causing blinks
Glenburn	Substation	128	2021-06-11T02:07:04	2021-06-11T02:07:09	0:00:05	Weather	A storm with higher than normal wind gusts passed through the region causing blinks
Glenburn	Substation	222	2021-06-11T02:07:11	2021-06-11T02:07:21	0:00:10	Weather	A storm with higher than normal wind gusts passed through the region causing blinks
Glenburn	Substation	128	2021-06-11T02:22:35	2021-06-11T02:22:42	0:00:07	Weather	A storm with higher than normal wind gusts passed through the region causing blinks
Glenburn	Substation	223	2021-06-11T02:22:45	2021-06-11T02:22:54	0:00:09	Weather	A storm with higher than normal wind gusts passed through the region causing blinks
Glenburn	Substation	340	2021-07-14T20:49:14	2021-07-14T20:49:35	0:00:21	Lightning	Lightning storm was traveling through the area and caused a few blinks on its way through

Glenburn	Substation	340	2021-08-09T16:04:33	2021-08-09T16:04:55	0:00:22	Lightning	storm came through causing Lightning, Hail and rain
Glenburn	Substation	340	2021-09-02T08:11:39	2021-09-02T08:11:56	0:00:17	Weather	Rain and lightning were occurring throughout the region.
Glenburn	Substation	127	2021-09-11T15:50:11	2021-09-11T15:50:18	0:00:07	Unknown	SRep could not find a reason for the blink.
Glenburn	Substation	213	2021-09-11T15:50:21	2021-09-11T15:50:31	0:00:10	Unknown	SRep could not find a reason for the blink.
Glenburn	Substation	340	2021-09-12T07:35:42	2021-09-12T07:36:46	0:01:04	Weather	Windy and rainy weather was passing through the area. No direct cause could be found
Glenburn	Substation	127	2021-09-22T09:54:54	2021-09-22T09:55:23	0:00:29	Unknown	SRep could not determine a reason for the blink.
Goodrich	Substation	125	2021-02-22T15:24:33	2021-02-22T15:51:47	0:27:14	Equip Fail Insulator	Insulator failed and burned the pole as well. SReps were able to fix.
Goodrich	Substation	125	2021-04-04T20:47:01	2021-04-04T20:47:26	0:00:25	Unknown	SRep in the area could not find anything to directly cause blink.
Goodrich	Substation	125	2021-04-16T22:42:35	2021-04-16T22:42:41	0:00:06	Bird	SRep believes a bird caused the blink
Goodrich	Substation	125	2021-05-22T01:22:02	2021-05-22T01:22:06	0:00:04	Weather	Storm rolled through the area during the night and into the day. SReps couldn't find any specific issues.
Goodrich	Substation	125	2021-06-06T03:04:04	2021-06-06T03:04:13	0:00:09	Weather	Storms were moving across north and central ND causing blinks
Goodrich	Substation	125	2021-07-09T00:19:12	2021-07-09T01:00:14	0:41:02	other	Central Power had as issue in their substation which feeds ours - this was a Central Power issue not ours.
Goodrich	Substation	125	2021-07-09T04:02:50	2021-07-09T04:12:02	0:09:12	other	Central Power had as issue in their substation which feeds ours - this was a Central Power issue not ours.
Grand_Rapids_Jct	Substation	251	2021-02-02T18:14:35	2021-02-02T18:14:54	0:00:19	Weather	Heavy frost on the conductors caused momentary and sustained outages when the wind blew..
Grand_Rapids_Jct	Substation	251	2021-02-02T21:05:08	2021-02-02T21:05:26	0:00:18	Weather	Heavy frost on the conductors caused momentary and sustained outages when the wind blew..
Grand_Rapids_Jct	Substation	251	2021-02-02T21:06:59	2021-02-02T22:26:46	1:19:47	Equip Fail Conductor	Heavy frost on the conductors caused the line down on the Dickey tap.
Grand_Rapids_Jct	Substation	251	2021-02-03T01:56:16	2021-02-03T02:44:28	0:48:12	Weather	Heavy frost on the conductors caused momentary and sustained outages when the wind blew..
Grand_Rapids_Jct	Substation	251	2021-02-03T08:22:57	2021-02-03T08:23:11	0:00:14	Weather	Heavy frost on the conductors caused momentary and sustained outages when the wind blew..
Grand_Rapids_Jct	Substation	251	2021-02-03T09:42:27	2021-02-03T09:42:47	0:00:20	Weather	Heavy frost on the conductors caused momentary and sustained outages when the wind blew..
Grand_Rapids_Jct	Substation	251	2021-02-03T09:43:38	2021-02-03T09:43:55	0:00:17	Weather	Heavy frost on the conductors caused momentary and sustained outages when the wind blew..
Grand_Rapids_Jct	Substation	251	2021-02-03T17:41:38	2021-02-03T17:42:02	0:00:24	Weather	Heavy frost on the conductors caused momentary and sustained outages when the wind blew..
Grand_Rapids_Jct	Substation	251	2021-02-03T17:57:38	2021-02-03T17:58:02	0:00:24	Weather	Heavy frost on the conductors caused momentary and sustained outages when the wind blew..
Grand_Rapids_Jct	Substation	251	2021-02-03T18:00:15	2021-02-03T19:54:57	1:54:42	Equip Fail Conductor	AMB audited 2/26/21 - Heavy frost on the conductors caused the line down on the Dickey tap.
Grand_Rapids_Jct	Substation	251	2021-04-11T21:15:46	2021-04-11T21:16:12	0:00:26	Equip Fail Insulator	Insulator failed and tracked causing pole to burn off.
Grand_Rapids_Jct	Substation	251	2021-05-23T07:20:29	2021-05-23T07:20:36	0:00:07	Unknown	Unknown and not patrolled.
Grand_Rapids_Jct	Substation	251	2021-06-07T20:38:27	2021-06-07T20:38:33	0:00:06	Weather	Storm in the area.
Grand_Rapids_Jct	Substation	251	2021-06-07T21:12:03	2021-06-07T21:12:10	0:00:07	Weather	Storm in the area.
Grand_Rapids_Jct	Substation	251	2021-06-07T21:15:07	2021-06-07T21:15:14	0:00:07	Weather	Storm in the area.
Grand_Rapids_Jct	Substation	251	2021-06-07T21:18:09	2021-06-07T21:18:16	0:00:07	Weather	Storm in the area.

Grand_Rapids_Jct	Substation	251	2021-06-07T21:31:38	2021-06-07T21:31:51	0:00:13	Weather	Storm in the area.
Grand_Rapids_Jct	Substation	251	2021-06-07T21:33:02	2021-06-07T21:33:14	0:00:12	Weather	Storm in the area.
Grand_Rapids_Jct	Substation	251	2021-06-07T21:34:28	2021-06-07T21:34:43	0:00:15	Weather	Storm in the area.
Grand_Rapids_Jct	Substation	251	2021-06-07T21:37:38	2021-06-08T00:00:27	2:22:49	Weather	AMB audited 8/2/21 - Storm in the area.
Grand_Rapids_Jct	Substation	251	2021-06-08T00:09:32	2021-06-08T00:09:39	0:00:07	Weather	Storm in the area.
Grand_Rapids_Jct	Substation	251	2021-06-08T00:11:19	2021-06-08T00:11:26	0:00:07	Weather	Storm in the area.
Grand_Rapids_Jct	Substation	251	2021-06-08T00:36:10	2021-06-08T00:36:17	0:00:07	Weather	Storm in the area.
Grand_Rapids_Jct	Substation	251	2021-06-08T00:43:11	2021-06-08T00:43:17	0:00:06	Weather	Storm in the area.
Grand_Rapids_Jct	Substation	251	2021-06-08T02:33:43	2021-06-08T02:33:47	0:00:04	Equip Fail Substation	Failed regulator in Grand Rapids Jct sub.
Grand_Rapids_Jct	Substation	251	2021-06-08T02:39:48	2021-06-08T09:59:05	7:19:17	Equip Fail Substation	AMB audited 8/2/21 - Failed regulator in Grand Rapids Jct sub.
Grand_Rapids_Jct	Substation	251	2021-06-10T09:54:32	2021-06-10T09:54:41	0:00:09	Unknown	Unknown and not investigated.
Grand_Rapids_Jct	Substation	251	2021-06-11T03:56:20	2021-06-11T03:56:25	0:00:05	Weather	Storm in the area.
Grand_Rapids_Jct	Substation	251	2021-06-11T09:39:06	2021-06-11T10:29:06	0:50:00	Weather	Storm in the area.
Grand_Rapids_Jct	Substation	251	2021-06-12T19:20:46	2021-06-12T20:54:17	1:33:31	Unknown	Investigated by cause was unknown
Grand_Rapids_Jct	Substation	251	2021-06-14T13:07:16	2021-06-14T14:08:36	1:01:20	Equip Fail Pole	Replaced downed poles due to storm in the area.
Grand_Rapids_Jct	Substation	251	2021-07-28T06:42:47	2021-07-28T06:42:54	0:00:07	Unknown	Unknown and not investigated.
Grand_Rapids_Jct	Substation	251	2021-08-07T20:25:14	2021-08-07T20:25:21	0:00:07	Weather	Storm in the area.
Grand_Rapids_Jct	Substation	251	2021-08-09T10:21:36	2021-08-09T10:21:43	0:00:07	Planned	Planned outage to replace the regulator at the Grand Rapids Jct sub.
Grand_Rapids_Jct	Substation	251	2021-08-11T10:02:49	2021-08-11T11:45:53	1:43:04	Planned	Planned outage to replace the regulator at the Grand Rapids Jct sub.
Grand_Rapids_Jct	Substation	251	2021-08-18T06:40:00	2021-08-18T06:40:07	0:00:07	Animal	Bird contacted a jumper in Grand Rapids Park.
Grand_Rapids_Jct	Substation	251	2021-08-24T00:48:16	2021-08-24T00:48:23	0:00:07	Equip Fail Fuse unknown cause	Blown fuse on tap at Jerry Moen, south of Grand Rapids.
Grand_Rapids_Jct	Substation	251	2021-08-28T07:45:15	2021-08-28T07:45:24	0:00:09	Weather	Storm in the area.
Grand_Rapids_Jct	Substation	102	2021-10-12T14:47:17	2021-10-12T14:47:39	0:00:22	Equip Fail Substation	Failed high side cutout in Grand Rapids Jct sub.
Grand_Rapids_Jct	Substation	251	2021-10-12T16:01:51	2021-10-12T18:11:30	2:09:39	Equip Fail Substation	AMB audit 11/2/21 - Failed high side cutout in Grand Rapids Jct sub.
Grand_Rapids_Jct	Substation	251	2021-11-04T10:11:02	2021-11-04T10:11:07	0:00:05	Unknown	Edgeley 415/465 & Oakes 815/825 operated. SEL 6.6 miles from Edgeley and 40.0 miles from Oakes. Clear day. Cause unknown and
Grand_Rapids_Jct	Substation	251	2021-11-17T09:12:30	2021-11-17T09:12:36	0:00:06	Equip Fail Insulator	Broken center phase insulator between Grand Rapids and Dickey. Also replaced lightning damaged pole at the same location.
Grand_Rapids_Jct	Substation	251	2021-11-17T09:22:53	2021-11-17T09:22:59	0:00:06	Equip Fail Insulator	Broken center phase insulator between Grand Rapids and Dickey. Also replaced lightning damaged pole at the same location.
Granville	Substation	126	2021-12-14T13:00:03	2021-12-14T14:45:33	1:45:30		
Granville	Substation	126	2021-12-16T13:00:02	2021-12-16T13:35:46	0:35:44		

Great Bend	FeederSection	1	2021-06-17T07:40:21	2021-06-17T07:40:30	0:00:09	Animal	Bird in a transformer
Great Bend	FeederSection	1	2021-07-14T11:24:05	2021-07-14T11:24:11	0:00:06		
Great Bend	FeederSection	9	2021-08-18T10:52:23	2021-08-18T10:52:46	0:00:23	Unknown	Patrolled and could not find anything.
Great Bend	FeederSection	9	2021-08-20T07:22:14	2021-08-20T07:22:35	0:00:21	Unknown	No customer calls but revolution also showed problem we will be patrolling to see if we can find anything.
Great Bend	FeederSection	3	2021-08-20T07:22:18	2021-08-20T07:23:19	0:01:01	Unknown	No customer calls but revolution also showed problem we will be patrolling to see if we can find anything.
Great Bend	FeederSection	14	2021-09-17T17:06:13	2021-09-17T17:06:31	0:00:18	Vehicle Accident	Farmer tore down 41.6 kva line west of Wahpeton
GreatBend_Mantador_MainFeeder	Feeder	135	2021-08-20T07:22:15	2021-08-20T07:22:35	0:00:20	Unknown	No customer calls but revolution also showed problem we will be patrolling to see if we can find anything.
Gwinner_Bank2	SubstationBank	2	2021-03-04T03:00:28	2021-03-04T03:25:02	0:24:34	Equip Fail Conductor	A splice on the 115 North of Gwinner burnt up and the line made contact with the ground causing the line to trip out.
Gwinner_Bank2	SubstationBank	2	2021-05-01T17:13:26	2021-05-01T18:57:46	1:44:20		
Hamar	Substation	9	2021-02-07T19:13:43	2021-02-07T21:06:58	1:53:15	Equip Fail Conductor	AMB audited 2/26/21 - 41.6kv phase burned down mid span south of Pekin. McVilleville Breaker communication did not work and McVilleville Jct Broken Insulator on 41.6kv line between Aneta and Finley
Hamar	Substation	9	2021-03-23T20:39:42	2021-03-23T20:57:06	0:17:24	Equip Fail Insulator	
Hamar	Substation	9	2021-04-23T10:29:38	2021-04-23T10:29:59	0:00:21	other	Some one lit a grass fire and it burned several 41.6kv poles.
Hamar	Substation	9	2021-05-02T13:11:02	2021-05-02T13:11:18	0:00:16	Unknown	Unknown
Hamar	Substation	9	2021-05-30T12:25:19	2021-05-30T12:25:39	0:00:20	Unknown	Unknown
Hamar	Substation	9	2021-06-11T04:33:23	2021-06-11T04:33:43	0:00:20	Equip Fail Pole	41.6kv broke in storm
Hamar	Substation	9	2021-06-26T17:03:47	2021-06-26T17:04:05	0:00:18	Unknown	Unknown
Hamar	Substation	9	2021-06-27T16:02:57	2021-06-27T16:04:10	0:01:13	Unknown	Unknown
Hamar	Substation	9	2021-07-19T13:23:00	2021-07-19T13:23:59	0:00:59	Weather	Weather moved through the area. Lots of lightning
Hamar	Substation	9	2021-07-19T20:37:30	2021-07-19T20:37:54	0:00:24	Weather	Weather moved through the area. Lots of lightning
Hamar	Substation	9	2021-08-09T13:07:45	2021-08-09T14:32:41	1:24:56	Weather	Severe storm moved through the area
Hamar	Substation	9	2021-08-09T15:36:05	2021-08-09T15:37:22	0:01:17	Weather	Severe storm moved through area
Hamar	Substation	9	2021-08-09T20:23:34	2021-08-09T20:27:37	0:04:03	Vegetation	Tree fell into 41.6kv line due to severe storm
Hamar	Substation	9	2021-08-09T21:06:30	2021-08-09T21:07:42	0:01:12	Vegetation	Severe storm moved through causing tree to fall into 41.6kv line
Hamar	Substation	9	2021-08-20T08:04:49	2021-08-20T08:05:06	0:00:17	Unknown	Unknown
Hamar	Substation	9	2021-08-31T16:14:08	2021-08-31T16:14:24	0:00:16	Unknown	Unknown
Hamar	Substation	9	2021-09-20T17:06:13	2021-09-20T17:06:41	0:00:28	Unknown	Unknown
Hamar	Substation	9	2021-12-31T08:51:47	2021-12-31T09:11:26	0:19:39	Equip Fail Conductor	Broken splice on conductor
Hamberg	Substation	72	2021-04-03T12:27:12	2021-04-03T14:02:44	1:35:32	Equip Fail Underground	AMB audited 5/25/21 - Underground fault
Hamberg	Substation	72	2021-05-16T02:56:31	2021-05-16T02:57:41	0:01:10	Unknown	SRep could not find a cause when patrolling

Hamberg	Substation	72	2021-07-12T06:40:38	2021-07-12T06:40:44	0:00:06	Weather	Rain and high gusts during the morning caused multiple blinks throughout the region
Hamberg	Substation	73	2021-08-20T00:57:22	2021-08-20T00:58:18	0:00:56	Lightning	Lightning blew an arrester in the substation
Hamberg	Substation	72	2021-08-20T03:08:13	2021-08-20T05:50:59	2:42:46	Equip Fail Arrester	AMB audited 9-1-21 - Lightning strike blew a substation lightning arrester and cutout. SRep had to dump town to fix properly.
Hamberg	Substation	72	2021-11-13T15:06:34	2021-11-13T15:06:41	0:00:07		
Hamberg	Substation	72	2021-11-13T15:11:37	2021-11-13T15:11:44	0:00:07		
Hamberg	Substation	72	2021-12-31T23:44:31	2022-01-01T00:36:44	0:52:13		
Hampden_Jct	Substation	52	2021-02-02T12:56:54	2021-02-02T16:19:55	3:23:01	Equip Fail Insulator	AMB audited 2/26/21 - Due to heavy frost and windy conditions lines sagging and slapping together breaking an insulator and a cross arm
Hampden_Jct	Substation	52	2021-06-06T03:21:45	2021-06-06T11:20:50	7:59:05	Weather	AMB audited 6/28/21 - Severe storm with high winds moved through breaking poles, insulators, and failed breaker in SW
Hampden_Jct	Substation	52	2021-08-09T19:35:45	2021-08-09T19:36:15	0:00:30	Weather	Severe Storm system with rotation moved through the area.
Hampden_Jct	Substation	14	2021-08-09T19:54:03	2021-08-09T19:57:19	0:03:16	Weather	Severe Storm system with rotation moved through the area.
Hampden_Jct	Substation	14	2021-08-09T20:03:26	2021-08-09T20:11:27	0:08:01	Weather	Severe Storm system with rotation moved through the area.
Hampden_Jct	Substation	14	2021-08-09T21:21:18	2021-08-09T21:24:40	0:03:22	Vegetation	Severe Storm moved through causing tree to fall into lines.
Hampden_Jct	Substation	14	2021-08-09T22:25:41	2021-08-09T22:28:02	0:02:21	Vegetation	Severe Storm moved through causing tree to fall into lines.
Hampden_Jct	Substation	14	2021-08-09T22:28:39	2021-08-09T22:30:42	0:02:03	Vegetation	Severe Storm moved through causing tree to fall into lines.
Hampden_Jct	Substation	14	2021-08-09T22:31:18	2021-08-09T22:35:07	0:03:49	Vegetation	Severe Storm moved through causing tree to fall into lines.
Hampden_Jct	Substation	14	2021-08-09T22:35:48	2021-08-09T22:39:58	0:04:10	Vegetation	Severe Storm moved through causing tree to fall into lines.
Hampden_Jct	Substation	52	2021-08-09T22:42:12	2021-08-10T00:05:41	1:23:29	Vegetation	Severe Storm moved through causing tree to fall into lines.
Hampden_Jct	Substation	52	2021-09-29T18:35:17	2021-09-29T18:35:28	0:00:11	Unknown	Unknown
Hampden_Jct	Substation	52	2021-09-30T14:49:39	2021-09-30T14:50:50	0:01:11	Unknown	Unknown
Hampden_Jct	Substation	52	2021-12-28T07:58:42	2021-12-28T07:58:59	0:00:17	Unknown	Unknown - winter storm in area.
Hankinson	Substation	642	2021-06-01T03:00:41	2021-06-01T03:01:00	0:00:19	Unknown	Could not find cause after driving the line.
Hankinson_NorthFeeder	Feeder	213	2021-01-01T16:29:28	2021-01-01T16:30:28	0:01:00	Equip Fail Conductor	UG fault took the breaker.
Hankinson_NorthFeeder	Feeder	213	2021-06-25T08:51:11	2021-06-25T08:51:31	0:00:20	Animal	Squirrel in the line
Hankinson_NorthFeeder	Feeder	213	2021-07-07T15:55:52	2021-07-07T15:56:18	0:00:26	Animal	Squirrel in the line
Hankinson_SouthFeeder	Feeder	429	2021-07-24T00:22:21	2021-07-24T00:22:36	0:00:15	Weather	Strong thunder storms in the whole area, had to isolate and restore by areas. Christine sub had damage so it took longer to restore that town.
Hankinson_SouthFeeder	Feeder	429	2021-07-24T00:26:58	2021-07-24T00:27:04	0:00:06	Weather	Strong thunder storms in the whole area, had to isolate and restore by areas. Christine sub had damage so it took longer to restore that town.
Hankinson_SouthFeeder	Feeder	429	2021-08-18T13:37:35	2021-08-18T13:37:42	0:00:07	Unknown	No customer calls
Hankinson_SouthFeeder	Feeder	429	2021-11-13T19:37:58	2021-11-13T19:38:05	0:00:07	Vegetation	Large tree fell on line and broke off 2 poles.
HankinsonCasino	Substation	15	2021-09-02T05:12:13	2021-09-02T05:12:20	0:00:07	Unknown	Line patrol was done and SEL put it at the switches but we could not find any reason for outage.

Hannafor	Substation	117	2021-01-30T03:16:03	2021-01-30T03:56:58	0:40:55	Equip Fail Pole	Transmission pole top broke off. Pole had been damaged by lightning years earlier.
Hannafor	Substation	117	2021-02-02T20:17:51	2021-02-02T20:18:05	0:00:14	Weather	Heavy frost on the conductors caused momentary and sustained outages when the wind blew..
Hannafor	Substation	117	2021-02-03T20:19:28	2021-02-03T20:19:43	0:00:15	Weather	Heavy frost on the conductors caused momentary and sustained outages when the wind blew..
Hannafor	Substation	117	2021-02-03T21:45:24	2021-02-03T21:45:40	0:00:16	Weather	Heavy frost on the conductors caused momentary and sustained outages when the wind blew..
Hannafor	Substation	117	2021-02-03T22:24:24	2021-02-03T22:24:40	0:00:16	Weather	Heavy frost on the conductors caused momentary and sustained outages when the wind blew..
Hannafor	Substation	117	2021-02-03T23:46:27	2021-02-03T23:46:44	0:00:17	Weather	Heavy frost on the conductors caused momentary and sustained outages when the wind blew..
Hannafor	Substation	117	2021-02-04T00:32:22	2021-02-04T00:33:14	0:00:52	Weather	Heavy frost on the conductors caused momentary and sustained outages when the wind blew..
Hannafor	Substation	117	2021-02-04T00:36:21	2021-02-04T00:36:39	0:00:18	Weather	Heavy frost on the conductors caused momentary and sustained outages when the wind blew..
Hannafor	Substation	117	2021-03-29T23:24:07	2021-03-30T01:53:05	2:28:58	Equip Fail Pole	AMB audited 4/28/21: Rotten transformer pole feeding the railroad signals at grid 018414171915 blew over in the strong winds.
Hannafor	Substation	117	2021-04-14T21:52:54	2021-04-14T21:53:59	0:01:05	Unknown	Interruption put location closer to Cooperstown. Line patrolled. Nothing found.
Hannafor	Substation	117	2021-05-02T13:11:03	2021-05-02T13:11:24	0:00:21	Unknown	SEL is 2.5 miles north of Sanborn. Patrolled but cause not known.
Hannafor	Substation	117	2021-05-19T19:27:13	2021-05-19T19:27:56	0:00:43	Weather	Thunderstorms and lightning in the area.
Hannafor	Substation	117	2021-05-24T15:24:15	2021-05-24T15:24:33	0:00:18	Equip Fail Insulator	Broken transmission insulator approximately 1 mile north of Cooperstown in the slough.
Hannafor	Substation	117	2021-05-24T15:25:07	2021-05-24T15:31:47	0:06:40	Equip Fail Insulator	Broken transmission insulator approximately 1 mile north of Cooperstown in the slough.
Hannafor	Substation	117	2021-07-19T13:22:54	2021-07-19T13:23:59	0:01:05	Weather	Storm in the Finley area tripped Pickert 925.
Hannafor	Substation	117	2021-07-26T08:52:26	2021-07-26T08:52:55	0:00:29	Equip Fail Insulator	Squirrel made contact in the sub and caused damage to a bus insulator.
Hannafor	Substation	117	2021-09-02T19:43:25	2021-09-02T19:43:37	0:00:12	Weather	Rain/lightning in the area.
Hannafor	Substation	117	2021-10-05T08:36:21	2021-10-05T08:37:30	0:01:09	Unknown	Investigated but cause unknown. SEL mileage by Sanborn.
Harvey_North_EastFeeder	Feeder	543	2021-12-31T23:44:31	2021-12-31T23:50:48	0:06:17		
Harvey_North_SouthFeeder	Feeder	160	2021-01-14T11:06:10	2021-01-14T11:06:27	0:00:17	Unknown	SRep could not find a cause
Harvey_North_WestFeeder	Feeder	529	2021-11-13T14:33:48	2021-11-13T14:33:54	0:00:06		
Harvey_North_WestFeeder	Feeder	529	2021-11-13T14:41:10	2021-11-13T14:41:17	0:00:07		
Harvey_North_WestFeeder	Feeder	529	2021-11-29T09:56:35	2021-11-30T04:48:24	18:51:49		
Harvey_North_WestFeeder	Feeder	529	2021-12-31T23:44:31	2021-12-31T23:50:40	0:06:09		
Havana	Substation	65	2021-07-23T23:47:19	2021-07-24T01:01:09	1:13:50	Weather	Thunder storm with lots of lightning. 2 broken cross arms near Brampton had to be replaced.
Havana	Substation	39	2021-08-24T01:47:39	2021-08-24T01:47:56	0:00:17	Weather	Thunder storms in the area with a lot of lightning and strong winds.
Havana	Substation	68	2021-08-26T11:11:30	2021-08-26T11:12:01	0:00:31	Weather	Strong storms with lightning and strong winds caused numerous outages.
Havana	Substation	68	2021-08-29T13:30:41	2021-08-29T13:31:06	0:00:25	Unknown	Lines will be patrolled lots of birds in the area i will update if cause is found.
Heaton	Substation	8	2021-02-02T01:57:50	2021-02-02T01:58:56	0:01:06	Weather	Heavy frost on the conductors caused momentary and sustained outages when the wind blew..

Heaton	Substation	8	2021-02-02T15:47:18	2021-02-02T15:47:30	0:00:12	Weather	Heavy frost on the conductors caused momentary and sustained outages when the wind blew..
Heaton	Substation	8	2021-02-22T15:24:36	2021-02-22T15:51:52	0:27:16	Equip Fail Pole	Burned pole due to an insulator tracking 1.5 miles east of Sykeston.
Heaton	Substation	8	2021-03-21T00:03:29	2021-03-21T00:03:38	0:00:09	Unknown	Unknown and not patrolled.
Heaton	Substation	8	2021-06-29T10:06:14	2021-06-29T10:40:30	0:34:16	Planned	House move.
Heaton	Substation	8	2021-07-09T04:02:32	2021-07-09T04:11:46	0:09:14	Unknown	Unknown and not investigated.
Heaton	Substation	8	2021-10-27T15:20:16	2021-10-27T15:20:22	0:00:06	Bird	SEL. 3.1 miles from Carrington. Bird got between phase and grounded pole top bracket.
Heaton	Substation	8	2021-10-27T17:46:28	2021-10-27T17:46:34	0:00:06	Unknown	Patrolled line but no interruption cause found. Suspect bird activity.
Heaton	Substation	8	2021-11-24T01:07:23	2021-11-24T01:07:30	0:00:07	Unknown	Unknown and not investigated.
High_School_VFI_South	FeederSection	28	2021-09-17T17:06:10	2021-09-17T17:06:17	0:00:07	Vehicle Accident	Farmer tore down 41.6 kva line west of Wahpeton
Hoople	Substation	243	2021-02-02T14:51:30	2021-02-02T14:51:57	0:00:27		
Hoople	Substation	185	2021-06-09T06:34:35	2021-06-09T08:29:50	1:55:15		
Hoople	Substation	185	2021-06-25T22:50:21	2021-06-25T22:50:25	0:00:04		
Hoople	Substation	185	2021-06-26T16:11:36	2021-06-26T16:11:41	0:00:05		
Hoople	Substation	185	2021-07-19T11:16:44	2021-07-19T11:17:44	0:01:00		
Hoople	Substation	185	2021-08-03T01:06:28	2021-08-03T01:07:20	0:00:52		
Hoople	Substation	185	2021-08-03T14:33:34	2021-08-03T14:43:01	0:09:27		
Hoople	Substation	185	2021-08-27T11:52:56	2021-08-27T11:53:37	0:00:41		
Hoople	Substation	185	2021-09-01T07:16:19	2021-09-01T07:16:26	0:00:07		
HovingJct	Substation	1	2021-03-04T03:00:18	2021-03-04T03:11:22	0:11:04	Equip Fail Conductor	A splice on the 115 North of Gwinner burnt up and the line made contact with the ground causing the line to trip out.
HovingJct	Substation	1	2021-06-07T22:24:54	2021-06-07T22:25:06	0:00:12	Weather	Storms traveled through the area with winds heavy rain and lots of lightning.
HovingJct	Substation	1	2021-07-23T23:33:17	2021-07-23T23:35:17	0:02:00	Weather	Thunder storm with lots of lightning. 2 broken cross arms near Brampton had to be replaced.
HovingJct	Substation	1	2021-10-12T08:45:36	2021-10-12T11:01:43	2:16:07	Planned	Had to do maintenance in the area.
Hurdsfield	Substation	103	2021-02-22T15:24:35	2021-02-22T15:51:49	0:27:14	Equip Fail Insulator	Insulator failed and burned the pole as well. SReps were able to fix.
Hurdsfield	Substation	89	2021-04-04T20:46:59	2021-04-04T20:47:26	0:00:27	Unknown	SRep in the area could not find anything to directly cause blink.
Hurdsfield	Substation	89	2021-04-16T22:42:32	2021-04-16T22:42:41	0:00:09	Bird	SRep believes a bird caused the blink
Hurdsfield	Substation	89	2021-05-22T01:22:03	2021-05-22T01:22:07	0:00:04	Weather	Storm rolled through the area during the night and into the day. SReps couldn't find any specific issues.
Hurdsfield	Substation	89	2021-06-06T03:04:06	2021-06-06T03:04:14	0:00:08	Weather	Storms were moving across north and central ND causing blinks
Hurdsfield	Substation	89	2021-07-09T00:19:04	2021-07-09T00:24:11	0:05:07	other	Central Power had as issue in their substation which feeds ours - this was a Central Power issue not ours.
Hurdsfield	Substation	89	2021-07-09T04:02:30	2021-07-09T04:11:43	0:09:13	other	Central Power had as issue in their substation which feeds ours - this was a Central Power issue not ours.

Inkster	Substation	46	2021-01-14T12:07:16	2021-01-14T12:07:36	0:00:20		
Inkster	Substation	46	2021-05-19T20:31:10	2021-05-19T20:31:30	0:00:20		
Inkster	Substation	46	2021-08-02T08:02:31	2021-08-02T08:02:52	0:00:21		
Inkster	Substation	46	2021-08-09T15:36:07	2021-08-09T15:36:27	0:00:20		
Inkster	Substation	46	2021-08-23T09:41:33	2021-08-23T09:42:34	0:01:01		
Inkster	Substation	28	2021-09-20T17:06:13	2021-09-20T17:06:29	0:00:16		
Inkster	Substation	18	2021-09-20T17:06:34	2021-09-20T17:06:42	0:00:08		
Inkster	Substation	46	2021-10-22T11:22:58	2021-10-22T11:24:07	0:01:09		
Inkster	Substation	46	2021-11-24T01:53:13	2021-11-24T01:53:30	0:00:17		
Inkster	Substation	46	2021-11-24T11:23:22	2021-11-24T11:23:40	0:00:18		
Jamestown_Downtown_NortheastFeeder	Feeder	351	2021-01-14T11:29:52	2021-01-14T11:30:00	0:00:08		
Jamestown_Downtown_NortheastFeeder	Feeder	351	2021-01-20T14:06:49	2021-01-20T14:07:00	0:00:11		
Jamestown_Downtown_NortheastFeeder	Feeder	351	2021-02-03T20:31:47	2021-02-03T20:32:01	0:00:14		
Jamestown_Downtown_NortheastFeeder	Feeder	351	2021-03-30T02:51:42	2021-03-30T02:52:13	0:00:31		
Jamestown_Downtown_NortheastFeeder	Feeder	351	2021-07-07T06:01:09	2021-07-07T06:01:16	0:00:07		
Jamestown_Downtown_NortheastFeeder	Feeder	351	2021-07-11T17:39:42	2021-07-11T17:39:48	0:00:06		
Jamestown_Downtown_NortheastFeeder	Feeder	351	2021-10-16T14:16:51	2021-10-16T18:56:21	4:39:30	Equip Fail Underground	AMB audit 11/2/21 - Underground cable fault on the 750 mcm on the north side of the Post Office parking lot in the driveway.
Jamestown_Downtown_SouthwestFeeder	Feeder	610	2021-10-09T06:57:35	2021-10-09T06:57:57	0:00:22	Equip Fail Cutout	Broken cutout at Middle School. The School was the only customer affected.
Jamestown_Downtown_SouthwestFeeder	Feeder	610	2021-10-09T18:40:29	2021-10-09T19:04:14	0:23:45	Equip Fail Cutout	Broken cutout at Middle School. The School was the only customer affected.
Jamestown_NE_Switching_Station_WestFeeder	Feeder	1416	2021-02-21T12:18:40	2021-02-21T12:18:54	0:00:14	Animal	Blown fuse on underground riser on yellow phase feeding Island Park caused by a squirrel.
Jamestown_NE_Switching_Station_WestFeeder	Feeder	1416	2021-05-25T16:37:46	2021-05-25T16:37:50	0:00:04	Unknown	Unknown and not patrolled. It was a windy day.
Jamestown_NE_Switching_Station_WestFeeder	Feeder	1416	2021-06-11T03:29:35	2021-06-11T03:29:39	0:00:04	Weather	Storm in the area.
Jamestown_NE_Switching_Station_WestFeeder	Feeder	1416	2021-08-03T07:54:24	2021-08-03T07:54:31	0:00:07	Unknown	Unknown and not investigated.
Jamestown_NE_Switching_Station_WestFeeder	Feeder	1416	2021-08-04T19:12:38	2021-08-04T19:13:25	0:00:47	Unknown	Unknown and not investigated.
Jamestown_NE_Switching_Station_WestFeeder	Feeder	1416	2021-08-26T11:07:06	2021-08-26T11:07:13	0:00:07	Unknown	Unknown and not investigated.
Jamestown_NE_Switching_Station_WestFeeder	Feeder	1416	2021-09-19T22:34:16	2021-09-19T22:34:20	0:00:04	Equip Fail Underground	Underground primary fault on a radial feed behind 905 8th Ave NE.
Jamestown_NE_Switching_Station_WestFeeder	Feeder	1416	2021-09-19T23:39:23	2021-09-19T23:39:29	0:00:06	Equip Fail Underground	Underground primary fault on a radial feed behind 905 8th Ave NE.
Jamestown_NE_Switching_Station_WestFeeder	Feeder	1416	2021-09-20T01:55:30	2021-09-20T01:55:35	0:00:05	Equip Fail Underground	Underground primary fault on a radial feed behind 905 8th Ave NE.
Jamestown_NE_Switching_Station_WestFeeder	Feeder	1416	2021-09-20T02:38:35	2021-09-20T02:38:41	0:00:06	Equip Fail Underground	Underground primary fault on a radial feed behind 905 8th Ave NE.

Jamestown_NE_Switching_Station_WestFeeder	Feeder	1416	2021-12-15T21:01:25	2021-12-15T21:01:31	0:00:06	Equip Fail Other	Guy broke off at ground level and was contacting a phase between 8th Ave NW & 10th Ave NW and south of 19th St NW.
Jamestown_NE_Switching_Station_WestFeeder	Feeder	1416	2021-12-15T22:14:01	2021-12-15T22:14:08	0:00:07	Equip Fail Other	Guy broke off at ground level and was contacting a phase between 8th Ave NW & 10th Ave NW and south of 19th St NW.
Jamestown_NE_Switching_Station_WestFeeder	Feeder	1416	2021-12-16T02:24:03	2021-12-16T02:24:11	0:00:08	Equip Fail Other	Guy broke off at ground level and was contacting a phase between 8th Ave NW & 10th Ave NW and south of 19th St NW.
Jamestown_North_NorthFeeder	Feeder	22	2021-01-14T08:37:23	2021-01-14T08:37:31	0:00:08	Unknown	Unknown and not investigated. Strong wind gusts 50-60 mph.
Jamestown_North_NorthFeeder	Feeder	22	2021-06-11T23:14:00	2021-06-12T01:26:21	2:12:21	Equip Fail Underground	AMB audited 8/2/21 - Underground primary fault at the north end of the airport
Jamestown_North_NorthFeeder	Feeder	22	2021-09-30T22:21:22	2021-09-30T23:24:21	1:02:59	Unknown	Closed breaker, held for about 3 minutes and operated again. Suspect an underground fault.
Jamestown_North_NorthFeeder	Feeder	22	2021-09-30T23:27:29	2021-09-30T23:27:35	0:00:06	Unknown	Closed breaker, held for about 3 minutes and operated again. Suspect an underground fault.
Jamestown_North_NorthFeeder	Feeder	22	2021-10-04T17:56:21	2021-10-04T17:56:31	0:00:10	Equip Fail Underground	Underground primary fault at the Airport serving the Vortec building.
Jamestown_North_NorthFeeder	Feeder	22	2021-10-04T17:59:47	2021-10-04T17:59:53	0:00:06	Equip Fail Underground	Underground primary fault at the Airport serving the Vortec building.
Jamestown_North_SouthFeeder	Feeder	264	2021-07-22T19:09:00	2021-07-22T20:50:39	1:41:39	Equip Fail Transformer	Failed padmount transformer at 1813 8th Ave NE.
Jamestown_Peaking_Plant	Substation	2535	2021-07-13T09:51:24	2021-07-13T11:44:26	1:53:02	Vehicle Accident	AMB audited 8/27/21 - Vehicle contacted down guy and caused line to gallop. Center phase burned down causing a differential in the Peaking
Jamestown_Peaking_Plant_NorthFeeder	Feeder	1419	2021-06-19T06:47:04	2021-06-19T06:47:30	0:00:26	Unknown	Unknown and not investigated.
Jamestown_Radio_Station	Substation	37	2021-02-03T17:34:09	2021-02-03T17:40:48	0:06:39	Weather	Heavy frost on the conductors caused momentary and sustained outages when the wind blew..
Jamestown_Radio_Station	Substation	38	2021-02-21T11:06:23	2021-02-21T11:06:44	0:00:21	Unknown	Unknown and not investigated.
Jamestown_Radio_Station	Substation	35	2021-04-11T21:15:51	2021-04-11T21:16:24	0:00:33	Equip Fail Insulator	Insulator failed and tracked causing pole to burn off.
Jamestown_Radio_Station	Substation	38	2021-05-09T14:22:06	2021-05-09T14:22:17	0:00:11	Vehicle Accident	Farmer rolling beans broke transmission pole approximately .8 mile north of the Nortonville Sub.
Jamestown_Radio_Station	Substation	36	2021-05-14T21:26:12	2021-05-14T21:26:24	0:00:12	Unknown	Unknown and not patrolled.
Jamestown_Radio_Station	Substation	35	2021-06-04T20:50:46	2021-06-04T21:07:30	0:16:44	Equip Fail Conductor	Conductor burned down approximately 4 miles north of the Edgeley Switching Station (Ring Bus Sub).
Jamestown_Radio_Station	Substation	38	2021-06-07T19:44:50	2021-06-07T19:45:03	0:00:13	Weather	Storm in the area.
Jamestown_Radio_Station	Substation	35	2021-06-07T19:51:32	2021-06-07T19:51:45	0:00:13	Weather	Storm in the area.
Jamestown_Radio_Station	Substation	35	2021-06-11T03:24:39	2021-06-11T03:24:50	0:00:11	Weather	Storm in the area.
Jamestown_Radio_Station	Substation	38	2021-06-26T18:20:12	2021-06-26T18:20:24	0:00:12	Weather	Storm in the area.
Jamestown_Radio_Station	Substation	38	2021-07-13T09:51:25	2021-07-13T09:51:52	0:00:27	Vehicle Accident	Vehicle contacted down guy and caused line to gallop. Center phase burned down causing a differential in the Peaking plant sub, locking out
Jamestown_Radio_Station	Substation	38	2021-08-07T20:22:48	2021-08-07T20:23:13	0:00:25	Weather	Storm in the area.
Jamestown_Radio_Station	Substation	38	2021-09-13T12:49:08	2021-09-13T12:49:33	0:00:25	Weather	Lightning, rain in the area.
Jamestown_Radio_Station	Substation	15	2021-09-13T16:41:09	2021-09-13T16:51:24	0:10:15	Weather	Lightning, rain in the area.
Jamestown_Radio_Station	Substation	38	2021-09-19T09:25:36	2021-09-19T09:26:01	0:00:25	Unknown	Unknown and not investigated.
Jamestown_Radio_Station	Substation	15	2021-10-26T00:10:00	2021-10-26T00:10:06	0:00:06	Equip Fail Underground	Underground cable fault on a radial fed transformer at 8283 41st St SE.
Jamestown_Radio_Station	Substation	15	2021-10-26T01:39:59	2021-10-26T01:40:05	0:00:06	Equip Fail Underground	Underground cable fault on a radial fed transformer at 8283 41st St SE.

Jamestown_Southwest	Substation	1528	2021-09-25T09:55:00	2021-09-25T09:55:22	0:00:22	Unknown	Unknown and not investigated. No SEL data.
Jamestown_Southwest_EastFeeder	Feeder	639	2021-03-30T14:12:16	2021-03-30T14:37:45	0:25:29	Vegetation	Tree fell into the line on the east side of Arbys drive-through due to high winds.
Jamestown_Southwest_EastFeeder	Feeder	639	2021-05-23T08:34:30	2021-05-23T08:34:36	0:00:06	Equip Fail Fuse unknown cause	Blown cutout fuse behind Two Rivers Inn around the 400 block of 10th St SW.
Jamestown_Southwest_EastFeeder	Feeder	639	2021-06-11T03:30:07	2021-06-11T03:30:11	0:00:04	Weather	Storm in the area.
Jamestown_Southwest_NorthFeeder	Feeder	465	2021-03-30T14:12:16	2021-03-30T14:12:32	0:00:16	Vegetation	Tree fell into the line on the east side of Arbys drive-through due to high winds.
Jamestown_Southwest_NorthFeeder	Feeder	465	2021-06-03T21:32:22	2021-06-03T21:32:26	0:00:04	Equip Fail Arrester	Blown arrester at 11th Ave SW & 13th St SW 4/0 riser pole.
Jamestown_Southwest_SouthFeeder	Feeder	424	2021-04-11T22:20:39	2021-04-11T23:46:54	1:26:15	Equip Fail Cutout	AMB audited 5/25/21 - Cutout broke on power bank between My Place Hotel & Macs.
Jud	Substation	55	2021-01-30T15:56:11	2021-01-30T16:02:01	0:05:50	Equip Fail Conductor	Splice failed and when conductor fell, it broke the crossarm on 14.4 kv line.
Jud	Substation	55	2021-02-02T07:29:18	2021-02-02T09:46:13	2:16:55	Equip Fail Conductor	AMB audited 2/26/21 - Heavy frost on the conductors broke a CPEC line in the Gackle area.
Jud	Substation	55	2021-02-02T20:51:00	2021-02-02T20:51:06	0:00:06	Weather	Heavy frost on the conductors caused momentary and sustained outages when the wind blew..
Jud	Substation	55	2021-02-02T21:03:02	2021-02-02T21:03:10	0:00:08	Weather	Heavy frost on the conductors caused momentary and sustained outages when the wind blew..
Jud	Substation	55	2021-02-03T00:29:48	2021-02-03T00:29:55	0:00:07	Weather	Heavy frost on the conductors caused momentary and sustained outages when the wind blew..
Jud	Substation	55	2021-02-03T06:33:58	2021-02-03T06:34:04	0:00:06	Weather	Heavy frost on the conductors caused momentary and sustained outages when the wind blew..
Jud	Substation	55	2021-02-03T08:02:26	2021-02-03T08:02:33	0:00:07	Weather	Heavy frost on the conductors caused momentary and sustained outages when the wind blew..
Jud	Substation	55	2021-02-03T09:29:16	2021-02-03T09:30:10	0:00:54	Weather	Heavy frost on the conductors caused momentary and sustained outages when the wind blew..
Jud	Substation	55	2021-02-03T15:56:14	2021-02-03T16:51:23	0:55:09	Weather	Heavy frost on the conductors caused momentary and sustained outages when the wind blew..
Jud	Substation	55	2021-02-03T16:52:22	2021-02-03T16:56:31	0:04:09	Weather	Heavy frost on the conductors caused momentary and sustained outages when the wind blew..
Jud	Substation	55	2021-02-03T17:34:05	2021-02-03T17:40:44	0:06:39	Weather	Heavy frost on the conductors caused momentary and sustained outages when the wind blew..
Jud	Substation	55	2021-02-21T11:06:23	2021-02-21T11:06:40	0:00:17	Unknown	Unknown and not investigated.
Jud	Substation	55	2021-04-11T21:15:52	2021-04-11T21:16:19	0:00:27	Equip Fail Insulator	Insulator failed and tracked causing pole to burn off.
Jud	Substation	55	2021-05-09T14:22:06	2021-05-09T14:22:11	0:00:05	Vehicle Accident	Farmer rolling beans broke transmission pole approximately .8 mile north of the Nortonville Sub.
Jud	Substation	55	2021-05-14T21:26:12	2021-05-14T21:26:19	0:00:07	Unknown	Unknown and not patrolled.
Jud	Substation	55	2021-05-19T23:15:01	2021-05-19T23:15:14	0:00:13	Equip Fail Conductor	Broken center phase mid span on transmission line approximately 1.25 miles west of Windsor I-94 exit.
Jud	Substation	55	2021-05-22T13:21:49	2021-05-22T13:21:58	0:00:09	Weather	Lightning in the area.
Jud	Substation	55	2021-06-04T20:51:02	2021-06-04T21:16:47	0:25:45		
Jud	Substation	55	2021-06-07T18:58:38	2021-06-07T18:59:49	0:01:11	Weather	Storm in the area.
Jud	Substation	55	2021-06-07T19:36:11	2021-06-07T19:36:19	0:00:08	Weather	Storm in the area.
Jud	Substation	55	2021-06-07T19:44:50	2021-06-07T19:44:59	0:00:09	Weather	Storm in the area.
Jud	Substation	55	2021-06-07T19:51:33	2021-06-07T19:51:41	0:00:08	Weather	Storm in the area.

Jud	Substation	55	2021-06-11T03:24:39	2021-06-11T03:25:53	0:01:14	Weather	Storm in the area.
Jud	Substation	55	2021-06-11T03:45:10	2021-06-11T03:45:18	0:00:08	Weather	Storm in the area.
Jud	Substation	55	2021-06-26T18:20:12	2021-06-26T18:20:20	0:00:08	Weather	Storm in the area.
Jud	Substation	55	2021-08-07T19:50:09	2021-08-07T19:51:12	0:01:03	Weather	Storm in the area.
Jud	Substation	55	2021-08-07T20:22:47	2021-08-07T20:22:53	0:00:06	Weather	Storm in the area.
Jud	Substation	55	2021-08-24T03:30:35	2021-08-24T03:31:02	0:00:27	Weather	Storm in the area.
Jud	Substation	55	2021-09-09T15:06:30	2021-09-09T15:06:39	0:00:09	Unknown	Unknown and not investigated.
Jud	Substation	55	2021-09-13T12:49:27	2021-09-13T12:49:34	0:00:07	Weather	Lightning, rain in the area.
Jud	Substation	35	2021-09-19T09:25:34	2021-09-19T09:25:40	0:00:06	Unknown	Unknown and not investigated.
Jud	Substation	20	2021-09-19T09:25:50	2021-09-19T09:26:01	0:00:11	Unknown	SEL put the disturbance on CPEC line.
Jud	Substation	55	2021-09-29T16:41:42	2021-09-29T16:41:47	0:00:05	Weather	Rain with a lot of lightning in the area.
Jud	Substation	55	2021-09-29T16:42:58	2021-09-29T16:43:06	0:00:08	Weather	Rain with a lot of lightning in the area.
Karlsruhe	Substation	122	2021-02-16T07:34:09	2021-02-16T07:35:23	0:01:14	other	This was due to the Storms that hit Texas that caused major switching incidence up in our region. No fault of OTP
Karlsruhe	Substation	122	2021-03-25T11:58:36	2021-03-25T12:58:48	1:00:12	other	Switch failure
Karlsruhe	Substation	122	2021-06-08T15:22:33	2021-06-08T15:22:39	0:00:06	Weather	SRep stated a thin line storm with Lightning passed through causing a blink. SRep patrolled after and could not find anything specific.
Karlsruhe	Substation	122	2021-10-10T11:04:07	2021-10-10T11:04:14	0:00:07	Unknown	SRep patrolled line the next day and could not find anything. Blink has not occurred like this since.
Kensal	Substation	166	2021-02-03T10:28:26	2021-02-03T10:28:36	0:00:10	Weather	Heavy frost on the conductors caused momentary and sustained outages when the wind blew..
Kensal	Substation	166	2021-02-03T16:30:31	2021-02-03T16:31:12	0:00:41	Weather	Heavy frost on the conductors caused momentary and sustained outages when the wind blew..
Kensal	Substation	166	2021-02-03T16:34:07	2021-02-03T16:34:21	0:00:14	Weather	Heavy frost on the conductors caused momentary and sustained outages when the wind blew..
Kensal	Substation	166	2021-02-03T18:22:55	2021-02-03T18:23:13	0:00:18	Weather	Heavy frost on the conductors caused momentary and sustained outages when the wind blew..
Kensal	Substation	166	2021-02-03T18:28:14	2021-02-03T18:28:20	0:00:06	Weather	Heavy frost on the conductors caused momentary and sustained outages when the wind blew..
Kensal	Substation	166	2021-02-24T15:46:52	2021-02-24T15:52:16	0:05:24	Equip Fail Pole	Burned pole due to an insulator tracking 1.5 miles north of Kensal.
Kensal	Substation	166	2021-03-02T07:52:23	2021-03-02T07:52:42	0:00:19	other	Interruption occurred when attempting to switch transmission line due to higher load flow than what the switch could break.
Kensal	Substation	166	2021-03-30T00:22:29	2021-03-30T00:26:06	0:03:37	Equip Fail Conductor	Broken conductor, broken crossarms, broken insulators between Bordulac to Kensal due to strong winds. Line switched out for the night.
Kensal	Substation	166	2021-03-30T02:53:07	2021-03-30T06:54:19	4:01:12	Equip Fail Insulator	AMB audited 4/27/21: Broken insulator 5 spans south of Courtenay Jct caused pole to burn. Line was already switched out from Bordulac to
Kensal	Substation	166	2021-04-01T05:49:38	2021-04-01T05:49:47	0:00:09	Unknown	Unknown and not investigated.
Kindred	Substation	447	2021-06-07T21:58:51	2021-06-07T21:59:19	0:00:28	Weather	Storms traveled through the area with winds heavy rain and lots of lightning.
Kindred	Substation	454	2021-06-07T21:59:55	2021-06-07T22:41:15	0:41:20	Weather	Storms traveled through the area with winds heavy rain and lots of lightning.
Kindred	Substation	447	2021-06-07T22:46:14	2021-06-08T01:52:42	3:06:28	Weather	AMB audited 6/28/21 - Storms traveled through the area with winds heavy rain and lots of lightning.

Kindred	Substation	447	2021-06-08T01:59:49	2021-06-08T02:00:27	0:00:38	Weather	Storm with wind traveled across the area.
Kindred	Substation	273	2021-06-08T03:03:04	2021-06-08T03:13:02	0:09:58	Weather	Storm with wind traveled across the area.
Kindred	Substation	454	2021-07-24T00:57:54	2021-07-24T00:58:17	0:00:23	Weather	Strong thunder storms in the whole area, had to isolate and restore by areas. Christine sub had damage so it took longer to restore that town.
Kindred	Substation	453	2021-07-24T01:32:55	2021-07-24T03:19:40	1:46:45	Weather	Strong thunder storms in the whole area, had to isolate and restore by areas. Christine sub had damage so it took longer to restore that town.
Kindred	Substation	454	2021-08-10T06:00:01	2021-08-10T06:53:19	0:53:18	Planned	We had to take outage to replace the interrupters.
Kindred	Substation	454	2021-08-26T03:54:53	2021-08-26T03:55:14	0:00:21	Weather	Strong storms with lightning and strong winds caused numerous outages.
Kindred	Substation	452	2021-10-20T15:12:41	2021-10-20T15:13:06	0:00:25	Unknown	Line was patrolled and nothing was found
Kindred	Substation	454	2021-12-07T10:53:35	2021-12-07T10:53:50	0:00:15	Vehicle Accident	KPH made contact with our 41.6 line while doing backhoe work causing breaker to trip.
Kloten	Substation	31	2021-02-07T19:13:39	2021-02-07T20:34:36	1:20:57	Equip Fail Conductor	41.6kv phase burned down mid span south of Pekin. McVilleville Breaker communication did not work and McVilleville Jct Motor Operator switch
Kloten	Substation	31	2021-03-23T20:39:43	2021-03-23T21:22:21	0:42:38	Equip Fail Insulator	Broken Insulator on 41.6kv line between Aneta and Finley
Kloten	Substation	31	2021-05-02T13:11:02	2021-05-02T13:11:08	0:00:06	Unknown	Unknown
Kloten	Substation	31	2021-05-30T12:25:27	2021-05-30T12:25:36	0:00:09	Unknown	Unknown
Kloten	Substation	31	2021-06-26T17:04:08	2021-06-26T17:04:14	0:00:06	Unknown	Unknown
Kloten	Substation	31	2021-06-27T16:03:19	2021-06-27T16:03:25	0:00:06	Unknown	Unknown
Kloten	Substation	31	2021-07-19T13:18:13	2021-07-19T13:18:19	0:00:06	Weather	Weather moved through the area. Lots of lightning
Kloten	Substation	31	2021-07-19T13:23:09	2021-07-19T13:23:55	0:00:46	Weather	Weather moved through the area. Lots of lightning
Kloten	Substation	31	2021-08-09T15:36:23	2021-08-09T15:36:30	0:00:07	Weather	Severe storm moved through area
Kloten	Substation	31	2021-08-09T21:06:44	2021-08-09T21:06:52	0:00:08	Vegetation	Severe storm moved through causing tree to fall into 41.6kv line
Kloten	Substation	31	2021-08-20T08:05:02	2021-08-20T08:05:14	0:00:12	Unknown	Unknown
Kloten	Substation	31	2021-08-31T16:14:04	2021-08-31T16:14:10	0:00:06	Unknown	Unknown
Kloten	Substation	31	2021-09-20T17:06:30	2021-09-20T17:06:37	0:00:07	Unknown	Unknown
Kloten	Substation	31	2021-12-31T08:51:53	2021-12-31T10:30:37	1:38:44	Equip Fail Conductor	Broken splice on conductor
Knox	Substation	86	2021-08-09T18:23:02	2021-08-09T18:23:15	0:00:13	Lightning	storm came through causing Lightning, Hail and rain
Knox_WolfordFeeder	Feeder	24	2021-02-02T04:14:51	2021-02-02T04:15:00	0:00:09	Equip Fail Arrester	Arrester failure
Knox_WolfordFeeder	Feeder	25	2021-02-02T04:38:23	2021-02-02T04:39:06	0:00:43	Equip Fail Arrester	Arrester failure
Knox_WolfordFeeder	Feeder	24	2021-02-02T05:40:24	2021-02-02T05:40:33	0:00:09	Equip Fail Arrester	Arrester failure
Knox_WolfordFeeder	Feeder	65	2021-02-02T06:00:41	2021-02-02T07:34:42	1:34:01	Equip Fail Arrester	AMB audited 3/1/21 - arrester failed
Knox_WolfordFeeder	Feeder	43	2021-05-21T09:31:04	2021-05-21T09:31:49	0:00:45	Equip Fail Insulator	6 insulators failed 15 miles east of Rugby, SRep fixed all six. no cause on why all 6 failed. But held after changeouts.
Knox_WolfordFeeder	Feeder	43	2021-05-21T09:32:45	2021-05-21T09:33:32	0:00:47	Equip Fail Insulator	6 insulators failed 15 miles east of Rugby, SRep fixed all six. no cause on why all 6 failed. But held after changeouts.

Knox_WolfordFeeder	Feeder	43	2021-05-21T09:42:43	2021-05-21T09:43:05	0:00:22	Equip Fail Insulator	6 insulators failed 15 miles east of Rugby, SRep fixed all six. no cause on why all 6 failed. But held after changeouts.
Knox_WolfordFeeder	Feeder	43	2021-05-21T09:44:14	2021-05-21T10:16:57	0:32:43	Equip Fail Insulator	6 insulators failed 15 miles east of Rugby, SRep fixed all six. no cause on why all 6 failed. But held after changeouts.
Kramer_Upham	Substation	179	2021-05-24T17:35:15	2021-05-24T18:13:15	0:38:00	Equip Fail Insulator	Broken insulator
Kramer_Upham	Substation	179	2021-07-06T13:16:09	2021-07-06T13:24:47	0:08:38	other	Sub Tech inadvertently caused outage
Kramer_Upham	Substation	179	2021-08-28T13:39:24	2021-08-28T13:39:43	0:00:19	Unknown	SRep could not find any cause, but due to the area is pretty sure a squirrel is the cause but unconfirmed.
Kramer_Upham	Substation	179	2021-09-29T08:54:48	2021-09-29T09:34:09	0:39:21	other	T2 line ended up getting shot at from what the crew could tell and broke one of the 2 wires which caused them to unwrap and slap
Kramer_Upham	Substation	179	2021-10-22T14:33:06	2021-10-22T14:33:27	0:00:21		
Kramer_Upham_UphamFeeder	Feeder	80	2021-04-23T09:56:25	2021-04-23T09:56:36	0:00:11	Unknown	SRep could not find reason at this time
Kramer_Upham_UphamFeeder	Feeder	15	2021-06-25T11:54:55	2021-06-25T11:55:02	0:00:07	Unknown	SRep could not find a reason for this blink
Lakewood	Substation	206	2021-04-05T13:01:58	2021-04-05T14:15:10	1:13:12	Planned	AMB audited 5/25/21 - Working on WAPA Sub Project which requires taking an outage on the 115kv line which is the source for this area.
Lakewood	Substation	206	2021-04-05T14:21:41	2021-04-05T15:00:49	0:39:08	Planned	Working on WAPA Sub Project which requires taking an outage on the 115kv line which is the source for this area.
Lakewood	Substation	206	2021-04-12T09:04:46	2021-04-12T09:52:31	0:47:45	Planned	Working on the WAPA Sub project
Lakewood	Substation	206	2021-04-19T10:00:09	2021-04-19T10:18:51	0:18:42	Planned	Planned outage for work on WAPA sub
Lakewood	Substation	206	2021-05-21T08:59:38	2021-05-21T10:14:31	1:14:53	Planned	AMB audited 5/25/21 - WAPA working under our lines with large equipment.
Lakewood	Substation	206	2021-06-03T20:46:47	2021-06-03T20:47:46	0:00:59	Unknown	Unknown
Lakewood	Substation	206	2021-08-13T10:00:20	2021-08-13T11:23:44	1:23:24	Planned	Planned outage - WAPA requesting outage to work on their 115kv sub again.
Lakewood	Substation	206	2021-09-13T15:52:26	2021-09-13T15:52:32	0:00:06	Unknown	Unknown
Lakewood	Substation	206	2021-09-16T08:53:18	2021-09-16T10:09:58	1:16:40	Animal	Squirrel blew a fuse
Lakewood	Substation	86	2021-09-29T08:56:20	2021-09-29T09:29:16	0:32:56	Animal	Squirrel
LaMoure	Substation	522	2021-04-11T21:15:52	2021-04-11T21:16:24	0:00:32	Equip Fail Insulator	Insulator failed and tracked causing pole to burn off.
LaMoure	Substation	522	2021-05-23T07:20:22	2021-05-23T07:21:24	0:01:02	Unknown	Unknown and not patrolled.
LaMoure	Substation	522	2021-06-07T21:55:57	2021-06-07T22:53:11	0:57:14	Equip Fail Pole	4 broken poles on the ground between LaMoure and Verona.
LaMoure	Substation	522	2021-06-07T23:34:05	2021-06-07T23:34:59	0:00:54	Weather	Storm in the area.
LaMoure	Substation	522	2021-06-08T02:39:45	2021-06-08T02:40:48	0:01:03	Equip Fail Substation	Failed regulator in Grand Rapids Jct sub.
LaMoure	Substation	522	2021-06-11T03:56:12	2021-06-11T03:56:33	0:00:21	Weather	Storm in the area.
LaMoure	Substation	522	2021-06-11T09:38:58	2021-06-11T10:29:14	0:50:16	Weather	Storm in the area.
LaMoure	Substation	522	2021-06-14T14:08:24	2021-06-14T14:08:43	0:00:19	Equip Fail Pole	Replaced downed poles due to storm in the area.
LaMoure	Substation	522	2021-08-07T20:25:06	2021-08-07T20:25:29	0:00:23	Weather	Storm in the area.
LaMoure	Substation	522	2021-08-28T07:45:01	2021-08-28T07:45:15	0:00:14	Weather	Storm in the area.

LaMoire	Substation	522	2021-11-04T10:10:50	2021-11-04T10:11:07	0:00:17	Unknown	Edgeley 415/465 & Oakes 815/825 operated. SEL 6.6 miles from Edgeley and 40.0 miles from Oakes. Clear day. Cause unknown and AMB audited 5/25/21 - Failed arrester in the LaMoire Sub.
LaMoire_NorthFeeder	Feeder	431	2021-04-04T13:15:26	2021-04-04T14:42:21	1:26:55	Equip Fail Arrester	Failed arrester in the LaMoire Sub.
LaMoire_NorthFeeder	Feeder	431	2021-04-04T14:46:55	2021-04-04T14:48:53	0:01:58	Equip Fail Arrester	Failed arrester in the LaMoire Sub.
LaMoire_NorthFeeder	Feeder	431	2021-08-20T12:36:44	2021-08-20T12:46:56	0:10:12	Equip Fail Cutout	Broken cutout at Larson Grain #2. This was the only customer out of power.
Landa	Substation	24	2021-04-11T23:21:48	2021-04-12T00:07:30	0:45:42	Equip Fail Pole	Pole started on fire between Landa and Roth on the 41.6kv
Landa	Substation	24	2021-07-06T13:16:20	2021-07-06T13:24:35	0:08:15	other	Sub Tech inadvertently caused outage.
Landa	Substation	24	2021-07-07T11:05:10	2021-07-07T11:06:27	0:01:17	Equip Fail Arrester	SRep stated that an arrester blew.
Landa	Substation	24	2021-07-18T01:49:19	2021-07-18T01:49:33	0:00:14	Unknown	SRep could not find a reason
Landa	Substation	24	2021-07-20T00:53:57	2021-07-20T00:54:12	0:00:15	Animal	SRep could not find exact cause, but believe it was an animal caused outage.
Landa	Substation	24	2021-07-20T01:16:26	2021-07-20T01:16:39	0:00:13	Animal	SRep could not find exact cause, but believes it was an animal caused outage.
Landa	Substation	24	2021-08-09T17:44:49	2021-08-09T17:45:13	0:00:24	Lightning	storm came through causing Lightning, Hail and rain
Landa	Substation	24	2021-08-16T13:12:26	2021-08-16T13:12:49	0:00:23	Unknown	SRep did not have a reason for the blink. Did not find anything when patrolling.
Landa	Substation	24	2021-09-20T19:47:25	2021-09-20T19:47:38	0:00:13	Equip Fail Fuse unknown cause	Blink caused by blown fuse on same feeder.
Landa	Substation	13	2021-10-28T09:01:49	2021-10-28T12:07:29	3:05:40	Planned	AMB audit 11/30/21 - Outage was to convert Landa from Corner ground Delta to a Wye system.
Langdon_Downtown	Substation	563	2021-02-03T20:33:18	2021-02-03T21:06:15	0:32:57	Equip Fail Substation	Breaker that feeds towns to the south Langdon was open due to Frost and wind. When dispatched attempted to close several times, breaker
Langdon_Downtown	Substation	563	2021-07-03T16:19:13	2021-07-03T18:25:39	2:06:26	Equip Fail Substation	AMB audited 8/2/21 - Storm moved through and Minnkota has issues in their 115kV Sub which is the OTP source in the area.
Langdon_Downtown	Substation	563	2021-07-19T19:42:22	2021-07-19T19:42:48	0:00:26	Weather	Weather moved through the area. Lots of lightning
Langdon_Downtown	Substation	563	2021-08-20T15:57:06	2021-08-20T15:57:12	0:00:06	Weather	Storm cell moved through area
Langdon_Downtown	Substation	563	2021-09-17T09:13:18	2021-09-17T09:13:50	0:00:32	Equip Fail Conductor	Broken conductor on 41.6kv transmission line
Langdon_Downtown	Substation	563	2021-09-17T09:24:58	2021-09-17T09:47:52	0:22:54	Equip Fail Conductor	Broken conductor on 41.6kv transmission line
Langdon_Downtown	Substation	563	2021-09-17T09:49:23	2021-09-17T10:00:28	0:11:05	Equip Fail Conductor	Broken conductor on 41.6kv transmission line
Langdon_Downtown	Substation	563	2021-11-08T21:52:27	2021-11-08T21:52:33	0:00:06	Vehicle Accident	Truck Broke Minnkota 115/69 pole causing service to be lost the Langdon area.
Langdon_Downtown	Substation	563	2021-11-08T23:15:21	2021-11-08T23:17:18	0:01:57	Vehicle Accident	Truck Broke Minnkota 115kv/69kv pole causing service to be lost to the area until switching could be done to move source to the 41.6kv.
Langdon_Downtown	Substation	563	2021-11-08T23:18:14	2021-11-08T23:44:45	0:26:31	Vehicle Accident	Truck Broke Minnkota 115kv/69kv pole causing service to be lost to the area until switching could be done to move source to the 41.6kv.
Langdon_Downtown_EastFeeder	Feeder	299	2021-03-02T14:32:49	2021-03-02T15:55:12	1:22:23	Equip Fail Substation	AMB audited 3/30/21 - Low Side Disconnect in substation broke causing it to move in the wind. Crew replaced broken disconnect.
Langdon_Downtown_EastFeeder	Feeder	299	2021-10-26T13:51:45	2021-10-26T13:51:54	0:00:09	Unknown	Unknown
Langdon_Downtown_WestFeeder	Feeder	264	2021-02-09T16:44:56	2021-02-09T18:53:59	2:09:03	Vehicle Accident	AMB audited 2/26/21 - Vehicle hit a distribution pole and broke it off at the ground line.
Langdon_East_Rural	Substation	77	2021-02-03T20:33:18	2021-02-03T21:06:26	0:33:08	Equip Fail Substation	Breaker that feeds towns to the south Langdon was open due to Frost and wind. When dispatched attempted to close several times, breaker
Langdon_East_Rural	Substation	77	2021-06-11T17:34:17	2021-06-11T17:34:26	0:00:09	Vegetation	Due to high winds, trees fell through distribution lines

Langdon_East_Rural	Substation	77	2021-07-03T16:19:27	2021-07-03T18:25:51	2:06:24	Equip Fail Substation	AMB audited 8/2/21 - Storm moved through and Minnkota has issues in their 115kV Sub which is the OTP source in the area.
Langdon_East_Rural	Substation	77	2021-07-19T19:42:35	2021-07-19T19:42:42	0:00:07	Weather	Weather moved through the area. Lots of lightning
Langdon_East_Rural	Substation	77	2021-08-20T15:57:17	2021-08-20T15:57:24	0:00:07	Weather	Storm cell moved through area
Langdon_East_Rural	Substation	77	2021-09-17T09:13:36	2021-09-17T10:45:20	1:31:44	Equip Fail Conductor	Broken conductor on 41.6kv transmission line
Langdon_East_Rural	Substation	77	2021-11-08T21:52:38	2021-11-08T21:52:43	0:00:05	Vehicle Accident	Truck Broke Minnkota 115kv/69kv pole causing service to be lost to the area until switching could be done to move source to the 41.6kv.
Langdon_East_Rural	Substation	77	2021-11-08T23:15:32	2021-11-08T23:17:28	0:01:56	Vehicle Accident	Truck Broke Minnkota 115kv/69kv pole causing service to be lost to the area until switching could be done to move source to the 41.6kv.
Langdon_East_Rural	Substation	77	2021-11-08T23:18:26	2021-11-08T23:44:54	0:26:28	Vehicle Accident	Truck Broke Minnkota 115kv/69kv pole causing service to be lost to the area until switching could be done to move source to the 41.6kv.
Langdon_North	Substation	667	2021-02-03T20:33:18	2021-02-03T21:06:27	0:33:09	Equip Fail Substation	Breaker that feeds towns to the south Langdon was open due to Frost and wind. When dispatched attempted to close several times, breaker
Langdon_North	Substation	667	2021-07-03T16:19:11	2021-07-03T18:25:53	2:06:42	Equip Fail Substation	AMB audited 8/2/21 - Storm moved through and Minnkota has issues in their 115kV Sub which is the OTP source in the area.
Langdon_North	Substation	664	2021-07-19T19:42:20	2021-07-19T19:42:45	0:00:25	Weather	weather moved through the area.
Langdon_North	Substation	667	2021-08-20T15:57:05	2021-08-20T15:57:27	0:00:22	Weather	Storm cell moved through area
Langdon_North	Substation	667	2021-09-17T09:13:16	2021-09-17T10:45:05	1:31:49	Equip Fail Conductor	Broken conductor on 41.6kv transmission line
Langdon_North	Substation	662	2021-11-08T21:52:26	2021-11-08T21:52:48	0:00:22	Vehicle Accident	Minnkota Pole broken by truck causing outage to the area
Langdon_North	Substation	663	2021-11-08T23:15:21	2021-11-08T23:17:31	0:02:10	Vehicle Accident	Truck Broke Minnkota 115/69 pole causing service to be lost the Langdon area.
Langdon_North	Substation	663	2021-11-08T23:18:14	2021-11-08T23:44:58	0:26:44	Vehicle Accident	Truck broke Minnekota 115/69 pole causing outage to the area.
Langdon_North_HighSchoolFeeder	Feeder	5	2021-07-29T11:00:18	2021-07-29T12:00:46	1:00:28	Planned	Substation work
Langdon_North_WestFeeder	Feeder	478	2021-06-06T11:42:17	2021-06-06T12:34:18	0:52:01	Weather	Severe storm moved through breaking poles, cross arms, and insulators.
Langdon_North_WestFeeder	Feeder	478	2021-06-11T15:19:48	2021-06-11T15:20:07	0:00:19	Vegetation	Due to high winds, trees fell through distribution lines
Langdon_North_WestFeeder	Feeder	478	2021-07-29T11:00:09	2021-07-29T12:01:33	1:01:24	Planned	Substation work
Lansford	Substation	85	2021-01-14T03:58:33	2021-01-14T03:58:40	0:00:07	Weather	High wind and moisture caused conductors to gallop and slap together throughout the region
Lansford	Substation	151	2021-01-14T04:19:04	2021-01-14T04:19:27	0:00:23	Weather	High wind and moisture caused conductors to gallop and slap together throughout the region
Lansford	Substation	85	2021-01-14T04:56:49	2021-01-14T04:56:56	0:00:07	Weather	High wind and moisture caused conductors to gallop and slap together throughout the region
Lansford	Substation	85	2021-01-14T05:06:27	2021-01-14T05:06:33	0:00:06	Weather	High wind and moisture caused conductors to gallop and slap together throughout the region
Lansford	Substation	85	2021-01-14T05:09:08	2021-01-14T05:09:14	0:00:06	Weather	High wind and moisture caused conductors to gallop and slap together throughout the region
Lansford	Substation	85	2021-01-14T05:11:35	2021-01-14T05:11:41	0:00:06	Weather	High wind and moisture caused conductors to gallop and slap together throughout the region
Lansford	Substation	85	2021-01-14T05:14:05	2021-01-14T05:14:12	0:00:07	Weather	High wind and moisture caused conductors to gallop and slap together throughout the region
Lansford	Substation	85	2021-01-14T05:51:44	2021-01-14T05:51:56	0:00:12	Weather	High wind and moisture caused conductors to gallop and slap together throughout the region
Lansford	Substation	85	2021-01-14T06:01:05	2021-01-14T06:01:11	0:00:06	Weather	high winds and gusts caused momentaries throughout the region
Lansford	Substation	85	2021-06-06T00:39:35	2021-06-06T00:39:44	0:00:09	Weather	Storms were moving across north and central ND causing blinks

Lansford	Substation	133	2021-06-06T00:39:50	2021-06-06T00:40:01	0:00:11	Weather	Storms were moving across north and central ND causing blinks
Lansford	Substation	217	2021-06-11T02:06:58	2021-06-11T02:07:20	0:00:22	Lightning	Lightning from a storm in the area. caused multiple blinks
Lansford	Substation	217	2021-06-11T02:22:29	2021-06-11T02:22:53	0:00:24	Weather	A storm with higher than normal wind gusts passed through the region causing blinks
Lansford	Substation	217	2021-07-14T20:49:24	2021-07-14T20:49:40	0:00:16	Lightning	Lightning storm was traveling through the area and caused a few blinks on its way through
Lansford	Substation	217	2021-08-09T16:04:32	2021-08-09T16:04:52	0:00:20	Lightning	storm came through causing Lightning, Hail and rain
Lansford	Substation	217	2021-09-02T08:11:38	2021-09-02T08:11:56	0:00:18	Weather	Rain and lightning were occurring throughout the region.
Lansford	Substation	217	2021-09-11T15:50:10	2021-09-11T15:50:37	0:00:27	Unknown	SRep could not find a reason for the blink.
Lansford	Substation	217	2021-09-12T07:35:41	2021-09-12T07:36:45	0:01:04	Weather	Windy and rainy weather was passing through the area. No direct cause could be found
Lawton_Jct	Substation	61	2021-02-02T06:40:54	2021-02-02T08:06:43	1:25:49	Equip Fail Insulator	AMB audited 3/30/21 - Insulator on the 41.6kv line near Fairdale broke in part due to heavy frost on the lines and wind picking up.
Lawton_Jct	Substation	62	2021-02-02T14:06:15	2021-02-02T14:06:35	0:00:20	Weather	Heavy frost and wind causing phases to sag and slap together on east west lines
Lawton_Jct	Substation	61	2021-02-02T14:22:53	2021-02-02T14:23:39	0:00:46	Weather	Heavy Frost with windy conditions causing phases to sag and slap together on east west lines.
Lawton_Jct	Substation	60	2021-02-02T14:24:15	2021-02-02T15:16:19	0:52:04	Weather	Heavy Frost with windy conditions causing phases to sag and slap together on east west lines.
Lawton_Jct	Substation	62	2021-02-03T18:46:39	2021-02-03T18:50:01	0:03:22	Weather	Heavy Frost and wind causing phases to slap together. crews worked on beating ice off the lines for breaker to hold.
Lawton_Jct	Substation	62	2021-02-03T18:51:11	2021-02-03T18:52:16	0:01:05	Weather	Heavy Frost and wind causing phases to slap together. crews worked on beating ice off the lines for breaker to hold.
Lawton_Jct	Substation	138	2021-02-03T19:06:01	2021-02-03T19:51:04	0:45:03	Weather	Heavy Frost and wind causing phases to slap together. Crews worked on knocking ice of to restore service
Lawton_Jct	Substation	62	2021-02-03T19:58:56	2021-02-03T20:13:00	0:14:04	Weather	Heavy Frost and wind causing phases to slap together. Crews worked on knocking ice of to restore service
Lawton_Jct	Substation	176	2021-02-03T20:17:18	2021-02-03T21:07:43	0:50:25	Weather	Heavy Frost and wind causing phases to slap together. Crews worked on knocking ice of to restore service
Lawton_Jct	Substation	51	2021-07-03T16:19:22	2021-07-03T17:53:52	1:34:30	Equip Fail Substation	Stormed moved through and Minnkota has issues in their 115kv Sub which is the OTP source in the area.
Lawton_Jct	Substation	13	2021-07-19T19:47:39	2021-07-19T19:47:47	0:00:08	Weather	Weather moved through the area. lightning
Lawton_Jct	Substation	13	2021-08-09T21:05:23	2021-08-09T21:05:48	0:00:25	Weather	Severe Storm system with rotation moved through the area.
Lawton_Jct	Substation	13	2021-08-09T21:06:21	2021-08-09T21:06:26	0:00:05	Weather	Severe Storm system with rotation moved through the area.
Lawton_Jct	Substation	51	2021-08-28T21:36:20	2021-08-28T21:36:43	0:00:23	Unknown	Unknown. Weather moved through the area
Lawton_Jct	Substation	51	2021-09-01T07:16:10	2021-09-01T07:17:14	0:01:04	Unknown	Unknown
Lawton_Jct	Substation	23	2021-09-21T13:30:27	2021-09-21T13:30:32	0:00:05	Unknown	Unknown
Lawton_Jct	Substation	51	2021-11-01T13:02:28	2021-11-01T14:30:19	1:27:51	Planned	Planned outage to replace breaker in the sub
Lawton_Jct	Substation	51	2021-11-08T21:52:26	2021-11-08T21:52:45	0:00:19	Vehicle Accident	Truck Broke Minnkota 115kv/69kv pole causing service to be lost to the area until switching could be done to move source to the 41.6kv.
Lawton_Jct	Substation	51	2021-11-08T23:15:19	2021-11-08T23:17:30	0:02:11	Vehicle Accident	Truck Broke Minnkota 115kv/69kv pole causing service to be lost to the area until switching could be done to move source to the 41.6kv.
Lawton_Jct	Substation	51	2021-11-08T23:18:19	2021-11-09T00:43:54	1:25:35	Vehicle Accident	Truck Broke Minnkota 115kv/69kv pole causing service to be lost to the area until switching could be done to move source to the 41.6kv.
Leeds	Substation	314	2021-05-21T09:31:17	2021-05-21T09:31:50	0:00:33	Equip Fail Insulator	6 insulators failed 15 miles east of Rugby, SRep fixed all six. no cause on why all 6 failed. But held after changeouts.

Leeds	Substation	314	2021-05-21T09:32:59	2021-05-21T09:33:31	0:00:32	Equip Fail Insulator	6 insulators failed 15 miles east of Rugby, SRep fixed all six. no cause on why all 6 failed. But held after changeouts.
Leeds	Substation	314	2021-05-21T09:42:56	2021-05-21T09:43:04	0:00:08	Equip Fail Insulator	6 insulators failed 15 miles east of Rugby, SRep fixed all six. no cause on why all 6 failed. But held after changeouts.
Leeds	Substation	314	2021-05-21T09:44:27	2021-05-21T10:16:55	0:32:28	Equip Fail Insulator	6 insulators failed 15 miles east of Rugby, SRep fixed all six. no cause on why all 6 failed. But held after changeouts.
Leeds	Substation	314	2021-08-09T18:23:00	2021-08-09T18:23:09	0:00:09	Lightning	storm came through causing Lightning, Hail and rain
Lidgerwood	Substation	457	2021-06-10T00:37:25	2021-06-10T01:26:02	0:48:37		
Lidgerwood	Substation	457	2021-08-16T12:52:34	2021-08-16T12:52:42	0:00:08	Planned	We had a planned outage to cut over to new UG
Lidgerwood	Substation	457	2021-08-20T07:13:30	2021-08-20T07:13:38	0:00:08	Unknown	Transmission issue patrol was done.
Lidgerwood	Substation	457	2021-08-24T02:03:29	2021-08-24T02:03:40	0:00:11	Weather	Thunder storms in the area with a lot of lightning and strong winds.
Lidgerwood	Substation	457	2021-08-24T02:20:31	2021-08-24T02:20:40	0:00:09	Weather	Thunder storms in the area with a lot of lightning and strong winds.
Lidgerwood	Substation	457	2021-08-26T08:07:16	2021-08-26T08:07:39	0:00:23	Weather	Strong storms with lightning and strong winds caused numerous outages.
Lidgerwood	Substation	457	2021-08-29T18:36:46	2021-08-29T18:37:10	0:00:24	Unknown	Lines will be patrolled lots of birds in the area i will update if cause is found.
Lidgerwood	Substation	457	2021-09-03T12:39:38	2021-09-03T12:39:54	0:00:16	Unknown	Transmission issue hit 3 different towns miles apart.
Lidgerwood	Substation	457	2021-10-13T16:08:24	2021-10-13T16:08:37	0:00:13	Weather	Severe storm was rolling through the area with strong winds and heavy rain.
Lidgerwood	Substation	457	2021-10-13T16:19:36	2021-10-13T16:19:50	0:00:14	Weather	Severe storm was rolling through the area with strong winds and heavy rain.
Lidgerwood_EastFeeder	Feeder	258	2021-03-30T13:11:57	2021-03-30T13:35:20	0:23:23	Vegetation	Tree fell onto the line so we had to take outage to remove the tree.
Lidgerwood_EastFeeder	Feeder	258	2021-06-05T14:54:45	2021-06-05T14:54:54	0:00:09	Planned	We had to take a flash outage on this meter bank to open a transformer for electrician.
Lidgerwood_EastFeeder	Feeder	258	2021-06-05T15:03:05	2021-06-05T15:03:13	0:00:08	Weather	Storms traveled through the area with winds heavy rain and lots of lightning.
Lidgerwood_EastFeeder	Feeder	258	2021-07-17T17:30:02	2021-07-17T17:30:10	0:00:08	Animal	Line was tripped out by slough where geese hit the lines.
Lidgerwood_EastFeeder	Feeder	258	2021-10-12T17:35:46	2021-10-12T17:35:52	0:00:06	Unknown	Line was patrolled and no cause was found
Lisbon_EastFeeder	Feeder	363	2021-03-04T03:00:27	2021-03-04T04:14:18	1:13:51	Equip Fail Conductor	AMB audited 4/28/21: A splice on the 115 North of Gwinner burnt up and the line made contact with the ground causing the line to trip out.
Lisbon_EastFeeder	Feeder	363	2021-06-07T22:24:56	2021-06-07T22:25:13	0:00:17	Weather	Storms traveled through the area with winds heavy rain and lots of lightning.
Lisbon_EastFeeder	Feeder	363	2021-07-23T23:33:03	2021-07-23T23:33:18	0:00:15	Weather	Thunder storm with lots of lightning. 2 broken cross arms near Brampton had to be replaced.
Lisbon_EastFeeder	Feeder	363	2021-10-16T00:00:13	2021-10-16T00:00:20	0:00:07	Equip Fail Underground	UG fault
Lisbon_EastFeeder	Feeder	363	2021-10-16T01:10:39	2021-10-16T01:10:46	0:00:07	Equip Fail Underground	UG fault
Lisbon_SouthFeeder	Feeder	49	2021-02-14T14:20:25	2021-02-14T14:20:34	0:00:09	Equip Fail Underground	UG fault caused brief outage for customers a couple customers were out for several hours.
Lisbon_SouthFeeder	Feeder	49	2021-03-04T03:00:20	2021-03-04T04:14:09	1:13:49	Equip Fail Conductor	AMB audited 4/28/21: A splice on the 115 North of Gwinner burnt up and the line made contact with the ground causing the line to trip out.
Lisbon_SouthFeeder	Feeder	49	2021-06-07T22:25:04	2021-06-07T22:25:22	0:00:18	Weather	Storms traveled through the area with winds heavy rain and lots of lightning.
Lisbon_SouthFeeder	Feeder	49	2021-07-23T23:33:10	2021-07-23T23:33:26	0:00:16	Weather	Thunder storm with lots of lightning. 2 broken cross arms near Brampton had to be replaced.
Lisbon_SouthFeeder	Feeder	49	2021-10-30T06:06:46	2021-10-30T06:06:53	0:00:07	Equip Fail Underground	UG fault

Lisbon_WestFeeder	Feeder	403	2021-03-04T03:00:29	2021-03-04T04:14:24	1:13:55	Equip Fail Conductor	AMB audited 4/28/21: A splice on the 115 North of Gwinner burnt up and the line made contact with the ground causing the line to trip out.
Lisbon_WestFeeder	Feeder	403	2021-06-07T22:25:02	2021-06-07T22:25:18	0:00:16	Weather	Storms traveled through the area with winds heavy rain and lots of lightning.
Lisbon_WestFeeder	Feeder	403	2021-07-23T23:33:03	2021-07-23T23:33:23	0:00:20	Weather	Thunder storm with lots of lightning. 2 broken cross arms near Brampton had to be replaced.
Makoti	Substation	94	2021-01-14T03:43:11	2021-01-14T03:43:29	0:00:18	Weather	High wind and moisture caused conductors to gallop and slap together throughout the region
Makoti	Substation	94	2021-01-14T04:06:18	2021-01-14T04:06:50	0:00:32	Weather	High winds and gusts throughout the area caused multiple momentaries throughout the region.
Makoti	Substation	94	2021-01-14T04:20:23	2021-01-14T04:20:58	0:00:35	Weather	High winds and gusts throughout the area caused multiple momentaries throughout the region.
Makoti	Substation	94	2021-01-14T04:38:16	2021-01-14T04:38:33	0:00:17	Weather	High wind and moisture caused conductors to gallop and slap together throughout the region
Makoti	Substation	94	2021-01-14T05:20:44	2021-01-14T05:21:01	0:00:17	Weather	High wind and moisture caused conductors to gallop and slap together throughout the region
Makoti	Substation	94	2021-01-14T05:30:18	2021-01-14T05:30:38	0:00:20	Weather	High wind and moisture caused conductors to gallop and slap together throughout the region
Makoti	Substation	94	2021-01-14T05:32:12	2021-01-14T05:32:36	0:00:24	Weather	High wind and moisture caused conductors to gallop and slap together throughout the region
Makoti	Substation	94	2021-01-14T05:33:33	2021-01-14T05:34:16	0:00:43	Weather	High winds and gusts throughout the area caused multiple momentaries throughout the region.
Makoti	Substation	94	2021-02-23T04:36:19	2021-02-23T04:36:34	0:00:15	other	WAPA had trouble on their 115 kv line so they switched to CEPEC Mallard sub to supply power to Max CEPEC 115 sub that provides OTP
Makoti	Substation	94	2021-06-06T01:37:48	2021-06-06T01:38:02	0:00:14	Weather	Storms were moving across north and central ND causing blinks
Makoti	Substation	94	2021-08-04T07:52:11	2021-08-04T07:52:36	0:00:25	Unknown	SRep could not find a reason for blink after patrolling.
Makoti	Substation	94	2021-08-09T02:57:00	2021-08-09T02:57:21	0:00:21	Lightning	storm came through causing Lightning, Hail and rain
Makoti	Substation	94	2021-09-15T11:42:25	2021-09-15T11:42:34	0:00:09	Unknown	Cause unknown. SRep patrolled the following day and didnt find any direct cause.
Makoti	Substation	52	2021-09-26T16:44:24	2021-09-26T16:45:12	0:00:48	Unknown	SRep could not determine a reason for the blink.
Makoti	Substation	52	2021-10-05T15:21:46	2021-10-05T15:21:52	0:00:06	Unknown	SRep did not know why the blink happened, and could not find a cause when driving the area the next day
Manfred	Substation	11	2021-05-16T02:56:28	2021-05-16T02:56:33	0:00:05	Unknown	SRep could not find a cause when patrolling
Manfred	Substation	11	2021-07-12T06:40:36	2021-07-12T06:40:43	0:00:07	Weather	Rain and high gusts during the morning caused multiple blinks throughout the region
Manfred	Substation	11	2021-07-13T10:09:26	2021-07-13T11:08:56	0:59:30	Planned	Planned outage to fix Cutout
Manfred	Substation	11	2021-12-31T23:44:31	2022-01-01T00:36:53	0:52:22		
MantadorFeederSection	FeederSection	63	2021-08-20T07:22:31	2021-08-20T07:22:39	0:00:08	Unknown	No customer calls but revolution also showed problem we will be patrolling to see if we can find anything.
Mapes	Substation	7	2021-05-05T08:00:15	2021-05-05T16:04:56	8:04:41	Planned	AMB audited 5/25/21 - Substation work. Rewired town from 3 phase to single phase. Installed sub metering.
Mapes	Substation	7	2021-05-17T14:52:52	2021-05-17T14:53:10	0:00:18	other	Switch flashed over due to loading when dispatch opened it.
Mapes	Substation	7	2021-05-29T17:27:41	2021-05-29T17:45:58	0:18:17	Equip Fail Insulator	Pole Top insulator failed causing top of pole to burn off.
Mapes	Substation	7	2021-06-26T17:03:51	2021-06-26T17:04:57	0:01:06	Unknown	Unknown
Mapes	Substation	7	2021-06-27T16:03:02	2021-06-27T16:04:10	0:01:08	Unknown	Unknown
Mapes	Substation	7	2021-08-09T15:36:05	2021-08-09T15:36:30	0:00:25	Weather	Severe storm moved through the area

Mapes	Substation	7	2021-08-20T08:04:52	2021-08-20T08:05:57	0:01:05	Unknown	Unknown
Mapes	Substation	7	2021-08-27T10:57:35	2021-08-27T10:57:45	0:00:10	Unknown	Unknown. Weather moved through the area
Mapes	Substation	7	2021-09-20T17:06:33	2021-09-20T17:06:41	0:00:08	Unknown	Unknown
Mapes_Rural	Substation	1	2021-05-17T14:52:50	2021-05-17T14:52:57	0:00:07	other	Switch flashed over due to loading when dispatch opened it.
Mapes_Rural	Substation	1	2021-05-29T17:27:30	2021-05-29T17:45:46	0:18:16	Equip Fail Insulator	Pole Top insulator failed causing top of pole to burn off.
Mapes_Rural	Substation	1	2021-06-26T17:04:00	2021-06-26T17:04:04	0:00:04	Unknown	Unknown
Mapes_Rural	Substation	1	2021-06-27T16:03:11	2021-06-27T16:03:15	0:00:04	Unknown	Unknown
Mapes_Rural	Substation	1	2021-08-09T15:36:15	2021-08-09T15:36:19	0:00:04	Weather	Severe storm moved through the area
Mapes_Rural	Substation	1	2021-08-20T08:04:58	2021-08-20T08:05:04	0:00:06	Unknown	Unknown
Mapes_Rural	Substation	1	2021-08-27T10:57:35	2021-08-27T10:57:53	0:00:18	Unknown	Unknown. Weather moved through the area
Mapes_Rural	Substation	1	2021-09-20T17:06:19	2021-09-20T17:06:26	0:00:07	Unknown	Unknown
Mapleton_South_and_West_RuralFeeder	Feeder	22	2021-03-22T10:08:02	2021-03-22T10:08:09	0:00:07	Unknown	We don't believe there was an outage due to no one called in.
Mapleton_South_and_West_RuralFeeder	Feeder	22	2021-06-10T14:47:45	2021-06-10T14:48:02	0:00:17	Unknown	All transformers outages no customers were not effected.
Martin	Substation	72	2021-06-11T03:54:12	2021-06-11T05:41:33	1:47:21	Equip Fail Arrester	Lightning arrestor failed due to early morning lightning.
Martin	Substation	72	2021-08-09T14:27:47	2021-08-09T14:28:03	0:00:16	Lightning	storm came through causing Lightning, Hail and rain
Martin	Substation	72	2021-08-22T09:49:33	2021-08-22T09:49:50	0:00:17	Weather	Windy rainy weather was happening when this blink occurred. SRep believes this was the cause
Martin	Substation	72	2021-08-22T09:54:33	2021-08-22T09:56:04	0:01:31	Weather	Windy rainy weather was happening when this blink occurred. SRep believes this was the cause
Martin	Substation	72	2021-09-15T06:20:44	2021-09-15T07:11:03	0:50:19	Equip Fail Arrester	Arrester blew. cause unknown
Martin	Substation	32	2021-09-18T11:03:10	2021-09-18T11:03:17	0:00:07	other	Unknown cause at this time. Working with SRep and Collin Kremerier to troubleshoot the ongoing blinks in the area. Thinking it's possibly a bad
Martin	Substation	40	2021-09-18T11:03:19	2021-09-18T11:03:30	0:00:11	other	Unknown cause at this time. Working with SRep and Collin Kremerier to troubleshoot the ongoing blinks in the area. Thinking it's possibly a bad
Martin	Substation	32	2021-09-18T11:04:29	2021-09-18T11:04:37	0:00:08	other	Unknown cause at this time. Working with SRep and Collin Kremerier to troubleshoot the ongoing blinks in the area. Thinking it's possibly a bad
Martin	Substation	40	2021-09-18T11:04:38	2021-09-18T11:04:50	0:00:12	other	Unknown cause at this time. Working with SRep and Collin Kremerier to troubleshoot the ongoing blinks in the area. Thinking it's possibly a bad
Martin	Substation	72	2021-09-20T12:32:09	2021-09-20T12:32:33	0:00:24	other	Unknown cause at this time. Working with SRep and Collin Kremerier to troubleshoot the ongoing blinks in the area. Thinking it's possibly a bad
Martin	Substation	32	2021-10-10T11:04:05	2021-10-10T11:04:11	0:00:06	Unknown	SRep patrolled line the next day and could not find anything. Blink has not occurred like this since.
Martin	Substation	41	2021-10-10T11:04:13	2021-10-10T11:04:20	0:00:07	Unknown	SRep patrolled line the next day and could not find anything. Blink has not occurred like this since.
Martin	Substation	72	2021-12-31T23:44:21	2021-12-31T23:55:28	0:11:07		
Martin	Substation	31	2021-12-31T23:55:52	2021-12-31T23:55:52	0:00:00		
Martin	Substation	41	2021-12-31T23:56:00	2021-12-31T23:58:14	0:02:14		
Max	Substation	203	2021-01-14T03:43:15	2021-01-14T03:43:19	0:00:04	Weather	High wind and moisture caused conductors to gallop and caused phases to slap together on the 41.6 line by Max ND.

Max	Substation	203	2021-01-14T04:06:19	2021-01-14T04:06:43	0:00:24	Weather	High wind and moisture caused conductors to gallop and caused phases to slap together on the 41.6 line by Max ND.
Max	Substation	203	2021-01-14T04:20:26	2021-01-14T04:20:49	0:00:23	Weather	High wind and moisture caused conductors to gallop and caused phases to slap together on the 41.6 line by Max ND.
Max	Substation	203	2021-01-14T04:38:19	2021-01-14T04:38:24	0:00:05	Weather	High wind and moisture caused conductors to gallop and caused phases to slap together on the 41.6 line by Max ND.
Max	Substation	203	2021-01-14T05:20:45	2021-01-14T05:20:52	0:00:07	Weather	High wind and moisture caused conductors to gallop and slap together on the 41.6 kv line by Max ND.
Max	Substation	203	2021-01-14T05:30:23	2021-01-14T05:30:31	0:00:08	Weather	High wind and moisture caused conductors to gallop and slap together on the 41.6 kv line by Max ND.
Max	Substation	203	2021-01-14T05:32:21	2021-01-14T05:32:29	0:00:08	Weather	High wind and moisture caused conductors to gallop and slap together on the 41.6 kv line by Max ND.
Max	Substation	203	2021-01-14T05:33:37	2021-01-14T05:34:07	0:00:30	Weather	High wind and moisture caused conductors to gallop and slap together on the 41.6 kv line by Max ND.
Max	Substation	203	2021-02-23T04:36:10	2021-02-23T04:43:31	0:07:21	other	I was told by Dispatch that WAPA had trouble on their 115 kv line so they switched to the CEPEC Mallard station for source to supply power
Max	Substation	203	2021-03-08T08:20:53	2021-03-08T09:05:53	0:45:00	Equip Fail Conductor	Overhead primary conductor on main distribution feeder broke at an old compression splice and fell to the ground. It caused single phase
Max	Substation	203	2021-06-06T01:37:38	2021-06-06T01:37:45	0:00:07	Weather	Storms were moving across north and central ND causing blinks
Max	Substation	203	2021-06-09T14:00:17	2021-06-09T15:17:31	1:17:14	Planned	AMB audited 6/29/21 - Per Nick, planned outage to add regulator to line for Max/Biota pumping station temp power.
Max	Substation	203	2021-08-04T07:52:16	2021-08-04T07:52:24	0:00:08	Unknown	SRep could not find a reason for blink after patrolling.
Max	Substation	203	2021-08-09T02:57:06	2021-08-09T02:57:10	0:00:04	Lightning	storm came through causing Lightning, Hail and rain
Max	Substation	203	2021-09-15T11:42:12	2021-09-15T11:42:16	0:00:04	Unknown	Cause unknown. SRep patrolled the following day and didnt find any direct cause.
Maxbass	Substation	63	2021-06-06T00:39:51	2021-06-06T00:40:00	0:00:09	Weather	Storms were moving across north and central ND causing blinks
Maxbass	Substation	63	2021-06-11T02:07:16	2021-06-11T02:07:21	0:00:05	Weather	A storm with higher than normal wind gusts passed through the region causing blinks
Maxbass	Substation	63	2021-06-11T02:22:48	2021-06-11T02:22:54	0:00:06	Weather	A storm with higher than normal wind gusts passed through the region causing blinks
Maxbass	Substation	63	2021-07-14T20:49:24	2021-07-14T20:49:34	0:00:10	Lightning	Lightning storm was traveling through the area and caused a few blinks on its way through
Maxbass	Substation	63	2021-08-09T16:04:45	2021-08-09T16:04:54	0:00:09	Lightning	storm came through causing Lightning, Hail and rain
Maxbass	Substation	63	2021-09-02T08:11:38	2021-09-02T08:11:47	0:00:09	Weather	Rain and lightning were occurring throughout the region.
Maxbass	Substation	63	2021-09-11T15:50:21	2021-09-11T15:50:30	0:00:09	Unknown	SRep could not find a reason for the blink.
Maxbass	Substation	63	2021-09-12T07:35:50	2021-09-12T07:35:57	0:00:07	Weather	Windy and rainy weather was passing through the area. No direct cause could be found
McCanna	Substation	26	2021-05-29T17:27:31	2021-05-29T17:30:21	0:02:50	Equip Fail Insulator	Pole Top insulator failed causing top of pole to burn off.
McCanna	Substation	14	2021-06-11T09:19:13	2021-06-11T09:21:25	0:02:12	Vegetation	Trees in the line due to high winds
McCanna	Substation	14	2021-06-11T09:28:16	2021-06-11T09:30:07	0:01:51	Vegetation	Trees in the line due to high winds
McCanna	Substation	26	2021-06-20T09:59:55	2021-06-20T10:31:16	0:31:21	Equip Fail Insulator	Pole Top insulator failed tracking across burning pole top off.
McCanna	Substation	26	2021-06-26T17:04:01	2021-06-26T17:04:13	0:00:12	Unknown	Unknown
McCanna	Substation	26	2021-06-27T16:03:14	2021-06-27T16:03:24	0:00:10	Unknown	Unknown
McCanna	Substation	26	2021-08-02T08:02:39	2021-08-02T08:02:53	0:00:14	Unknown	Unknown

McCanna	Substation	25	2021-08-09T15:36:16	2021-08-09T15:36:29	0:00:13	Weather	Severe storm moved through the area
McCanna	Substation	26	2021-08-20T08:05:02	2021-08-20T08:05:13	0:00:11	Unknown	Unknown
McCanna	Substation	26	2021-08-21T18:47:09	2021-08-21T18:47:22	0:00:13	Unknown	Unknown
McCanna	Substation	26	2021-08-23T09:41:38	2021-08-23T09:41:52	0:00:14	Unknown	Unknown
McCanna	Substation	26	2021-08-27T10:57:34	2021-08-27T10:57:58	0:00:24	Unknown	Unknown. Weather moved through the area
McCanna	Substation	26	2021-09-13T18:02:46	2021-09-13T18:02:57	0:00:11	Equip Fail Fuse unknown cause	Blown Fuse
McCanna	Substation	25	2021-09-20T17:06:15	2021-09-20T17:06:41	0:00:26	Unknown	Unknown
McCanna	Substation	26	2021-10-02T10:50:44	2021-10-02T10:50:53	0:00:09	Unknown	Unknown
McClusky	Substation	312	2021-02-22T15:24:34	2021-02-22T15:51:48	0:27:14	Equip Fail Insulator	Insulator failed and burned the pole as well. SReps were able to fix.
McClusky	Substation	312	2021-04-04T20:46:55	2021-04-04T20:47:27	0:00:32	Unknown	SRep in the area could not find anything to directly cause blink.
McClusky	Substation	312	2021-04-16T22:42:35	2021-04-16T22:42:42	0:00:07	Bird	SRep believes a bird caused the blink
McClusky	Substation	312	2021-05-22T01:22:04	2021-05-22T01:22:09	0:00:05	Weather	Storm rolled through the area during the night and into the day. SReps couldn't find any specific issues.
McClusky	Substation	312	2021-06-06T03:04:06	2021-06-06T03:04:16	0:00:10	Weather	Storms were moving across north and central ND causing blinks
McClusky	Substation	312	2021-07-09T00:19:06	2021-07-09T00:24:11	0:05:05	other	Central Power had as issue in their substation which feeds ours - this was a Central Power issue not ours.
McClusky	Substation	312	2021-07-09T00:51:16	2021-07-09T00:59:56	0:08:40	other	Central Power had as issue in their substation which feeds ours - this was a Central Power issue not ours.
McClusky	Substation	312	2021-07-09T04:02:32	2021-07-09T04:11:45	0:09:13	other	Central Power had as issue in their substation which feeds ours - this was a Central Power issue not ours.
McVille	Substation	407	2021-02-07T19:13:47	2021-02-07T20:34:52	1:21:05	Equip Fail Conductor	41.6kv phase burned down mid span south of Pekin. McVille Breaker communication did not work and McVille Jct Motor Operator switch Broken Insulator on 41.6kv line between Aneta and Finley
McVille	Substation	407	2021-03-23T20:39:34	2021-03-23T21:22:31	0:42:57	Equip Fail Insulator	
McVille	Substation	407	2021-05-02T13:11:01	2021-05-02T13:11:21	0:00:20	Unknown	Unknown
McVille	Substation	407	2021-05-30T12:25:19	2021-05-30T12:25:32	0:00:13	Unknown	Unknown
McVille	Substation	407	2021-06-26T17:03:59	2021-06-26T17:04:10	0:00:11	Unknown	Unknown
McVille	Substation	407	2021-06-27T16:03:12	2021-06-27T16:03:22	0:00:10	Unknown	Unknown
McVille	Substation	407	2021-07-19T13:23:02	2021-07-19T13:23:51	0:00:49	Weather	Weather moved through the area. Lots of lightning
McVille	Substation	407	2021-08-09T15:36:16	2021-08-09T15:36:26	0:00:10	Weather	Severe storm moved through area
McVille	Substation	407	2021-08-09T21:06:37	2021-08-09T21:06:48	0:00:11	Vegetation	Severe storm moved through causing tree to fall into 41.6kv line
McVille	Substation	407	2021-08-20T08:05:00	2021-08-20T08:05:10	0:00:10	Unknown	Unknown
McVille	Substation	407	2021-08-31T16:14:00	2021-08-31T16:14:25	0:00:25	Unknown	Unknown
McVille	Substation	407	2021-09-20T17:06:12	2021-09-20T17:06:41	0:00:29	Unknown	Unknown
McVille	Substation	407	2021-12-31T08:51:48	2021-12-31T09:48:57	0:57:09	Equip Fail Conductor	Broken splice on conductor

McVille_EastArea	Feeder	258	2021-03-31T14:11:34	2021-03-31T14:12:42	0:01:08	other	Contractor dug into primary cable feeding football field causing momentary.
McVille_EastArea	Feeder	258	2021-08-16T08:31:41	2021-08-16T08:31:52	0:00:11	Animal	Squirrel blew fuse on XFMR
Medina	Substation	193	2021-01-14T05:59:25	2021-01-14T08:01:46	2:02:21	Unknown	AMB audited 1/28/21 - Unknown and not investigated. Strong wind gusts 50-60 mph.
Medina	Substation	193	2021-02-01T13:56:27	2021-02-01T13:57:28	0:01:01	Weather	Heavy frost on the conductors caused momentary and sustained outages when the wind blew..
Medina	Substation	193	2021-02-01T15:03:11	2021-02-01T15:04:12	0:01:01	Weather	Heavy frost on the conductors caused momentary and sustained outages when the wind blew..
Medina	Substation	193	2021-02-02T07:26:49	2021-02-02T07:27:01	0:00:12	Equip Fail Conductor	Heavy frost on the conductors broke a CPEC line in the Gackle area.
Medina	Substation	364	2021-02-02T19:02:35	2021-02-02T19:17:21	0:14:46	Weather	Heavy frost on the conductors caused momentary and sustained outages when the wind blew..
Medina	Substation	193	2021-02-03T00:27:09	2021-02-03T00:29:07	0:01:58	Weather	Heavy frost on the conductors caused momentary and sustained outages when the wind blew..
Medina	Substation	193	2021-02-03T00:32:28	2021-02-03T00:32:48	0:00:20	Weather	Heavy frost on the conductors caused momentary and sustained outages when the wind blew..
Medina	Substation	193	2021-02-03T07:34:12	2021-02-03T07:34:26	0:00:14	Weather	Heavy frost on the conductors caused momentary and sustained outages when the wind blew..
Medina	Substation	193	2021-02-03T08:38:30	2021-02-03T08:38:45	0:00:15	Weather	Heavy frost on the conductors caused momentary and sustained outages when the wind blew..
Medina	Substation	193	2021-02-03T11:03:23	2021-02-03T11:03:39	0:00:16	Weather	Heavy frost on the conductors caused momentary and sustained outages when the wind blew..
Medina	Substation	193	2021-02-03T12:31:19	2021-02-03T12:43:37	0:12:18	Weather	Heavy frost on the conductors caused momentary and sustained outages when the wind blew..
Medina	Substation	193	2021-02-03T15:56:15	2021-02-03T16:51:30	0:55:15	Weather	Heavy frost on the conductors caused momentary and sustained outages when the wind blew..
Medina	Substation	193	2021-02-03T16:52:26	2021-02-03T16:56:35	0:04:09	Weather	Heavy frost on the conductors caused momentary and sustained outages when the wind blew..
Medina	Substation	193	2021-02-03T17:31:45	2021-02-03T17:49:08	0:17:23	Weather	Heavy frost on the conductors caused momentary and sustained outages when the wind blew..
Medina	Substation	193	2021-02-03T17:51:26	2021-02-03T17:51:45	0:00:19	Weather	Heavy frost on the conductors caused momentary and sustained outages when the wind blew..
Medina	Substation	193	2021-02-03T21:00:14	2021-02-03T21:00:29	0:00:15		
Medina	Substation	193	2021-02-03T21:12:20	2021-02-03T21:12:35	0:00:15	Weather	Heavy frost on the conductors caused momentary and sustained outages when the wind blew..
Medina	Substation	193	2021-02-04T00:05:08	2021-02-04T00:05:25	0:00:17	Weather	Heavy frost on the conductors caused momentary and sustained outages when the wind blew..
Medina	Substation	193	2021-02-04T00:18:33	2021-02-04T00:18:50	0:00:17	Weather	Heavy frost on the conductors caused momentary and sustained outages when the wind blew..
Medina	Substation	193	2021-02-04T00:35:36	2021-02-04T00:36:18	0:00:42	Weather	Heavy frost on the conductors caused momentary and sustained outages when the wind blew..
Medina	Substation	193	2021-02-04T00:41:52	2021-02-04T00:42:53	0:01:01	Weather	Heavy frost on the conductors caused momentary and sustained outages when the wind blew..
Medina	Substation	364	2021-02-04T00:43:59	2021-02-04T00:45:01	0:01:02	Weather	Heavy frost on the conductors caused momentary and sustained outages when the wind blew..
Medina	Substation	535	2021-02-04T00:45:36	2021-02-04T00:52:16	0:06:40	Weather	Heavy frost on the conductors caused momentary and sustained outages when the wind blew..
Medina	Substation	193	2021-02-04T00:55:09	2021-02-04T00:55:29	0:00:20	Weather	Heavy frost on the conductors caused momentary and sustained outages when the wind blew..
Medina	Substation	193	2021-02-04T01:06:34	2021-02-04T01:06:50	0:00:16	Weather	Heavy frost on the conductors caused momentary and sustained outages when the wind blew..
Medina	Substation	193	2021-02-04T01:22:25	2021-02-04T01:22:42	0:00:17	Weather	Heavy frost on the conductors caused momentary and sustained outages when the wind blew..
Medina	Substation	108	2021-03-30T14:04:44	2021-03-30T14:04:48	0:00:04	Unknown	High winds in the area. Cause unknown.

Medina	Substation	87	2021-03-30T14:04:49	2021-03-30T14:04:53	0:00:04	Unknown	High winds in the area. Cause unknown.
Medina	Substation	193	2021-04-05T14:56:31	2021-04-05T14:56:51	0:00:20	Unknown	Unknown and not investigated.
Medina	Substation	193	2021-05-13T14:36:23	2021-05-13T14:36:38	0:00:15	Equip Fail Arrester	Blown arrester caused by lightning near 112 7th Ave NE, Medina.
Medina	Substation	364	2021-05-14T13:31:14	2021-05-14T15:36:16	2:05:02	other	AMB audited 5/25/21 - Contractor attempted to remove a tree by the Cenex gas station when the cable broke and swung over the primary
Medina	Substation	193	2021-05-19T22:37:26	2021-05-19T22:46:17	0:08:51	Equip Fail Conductor	Broken center phase mid span on transmission line approximately 1.25 miles west of Windsor I-94 exit.
Medina	Substation	193	2021-05-19T23:14:46	2021-05-19T23:14:58	0:00:12	Equip Fail Conductor	Broken center phase mid span on transmission line approximately 1.25 miles west of Windsor I-94 exit.
Medina	Substation	193	2021-06-04T20:08:59	2021-06-04T20:09:10	0:00:11	Weather	Storm in the area.
Medina	Substation	193	2021-06-07T18:48:10	2021-06-07T18:48:22	0:00:12	Weather	Storm in the area.
Medina	Substation	192	2021-06-08T01:46:37	2021-06-08T01:46:52	0:00:15	Weather	Storm in the area.
Medina	Substation	193	2021-06-08T07:30:34	2021-06-08T07:31:16	0:00:42	Equip Fail Pole	Broken pole north of Medina on tap to old city well.
Medina	Substation	193	2021-06-08T07:33:35	2021-06-08T07:33:46	0:00:11	Equip Fail Pole	Broken pole north of Medina on tap to old city well.
Medina	Substation	193	2021-06-08T07:34:38	2021-06-08T07:34:52	0:00:14	Equip Fail Pole	Broken pole north of Medina on tap to old city well.
Medina	Substation	193	2021-06-08T07:35:23	2021-06-08T10:55:55	3:20:32	Equip Fail Pole	AMB audited 8/2/21 - Broken pole north of Medina on tap to old city well.
Medina	Substation	279	2021-09-25T09:55:01	2021-09-25T09:55:12	0:00:11	Unknown	Unknown and not investigated. No SEL data.
Mercer	Substation	36	2021-01-14T05:59:38	2021-01-14T05:59:59	0:00:21	Weather	High wind and moisture caused conductors to gallop and slap together throughout the region
Mercer	Substation	36	2021-01-16T00:45:48	2021-01-16T02:09:20	1:23:32	Equip Fail Cutout	AMB audited 3/1/21 - High side disconnect burned up and needed to be replace.
Mercer	Substation	36	2021-02-22T15:24:30	2021-02-22T15:51:50	0:27:20	Equip Fail Insulator	Insulator failed and burned the pole as well. SReps were able to fix.
Mercer	Substation	36	2021-04-04T20:46:55	2021-04-04T20:47:25	0:00:30	Unknown	SRep in the area could not find anything to directly cause blink.
Mercer	Substation	36	2021-04-16T22:42:33	2021-04-16T22:42:42	0:00:09	Bird	SRep believes a bird caused the blink
Mercer	Substation	36	2021-05-22T01:22:00	2021-05-22T01:22:23	0:00:23	Weather	Storm rolled through the area during the night and into the day. SReps couldn't find any specific issues.
Mercer	Substation	36	2021-06-06T03:04:04	2021-06-06T03:04:30	0:00:26	Weather	Storms were moving across north and central ND causing blinks
Michigan	Substation	331	2021-02-24T18:39:56	2021-02-24T18:40:08	0:00:12	Unknown	Unknown.
Michigan	Substation	332	2021-05-29T17:27:24	2021-05-29T17:30:23	0:02:59	Weather	Storm moved through. Lots of lightning
Michigan	Substation	332	2021-06-20T09:59:44	2021-06-20T10:19:41	0:19:57	Equip Fail Insulator	Pole Top insulator failed tracking across burning pole top off.
Michigan	Substation	331	2021-06-20T16:45:33	2021-06-20T16:46:07	0:00:34	Equip Fail Insulator	Insulator failed burning top of pole off by Mapes.
Michigan	Substation	332	2021-06-26T17:03:50	2021-06-26T17:04:13	0:00:23	Unknown	Unknown
Michigan	Substation	332	2021-06-27T16:03:01	2021-06-27T16:03:25	0:00:24	Unknown	Unknown
Michigan	Substation	332	2021-08-02T08:02:29	2021-08-02T08:02:53	0:00:24	Unknown	Unknown
Michigan	Substation	332	2021-08-09T15:36:08	2021-08-09T15:36:28	0:00:20	Weather	Severe storm moved through the area

Michigan	Substation	331	2021-08-20T08:04:53	2021-08-20T08:05:13	0:00:20	Unknown	Unknown
Michigan	Substation	332	2021-08-21T18:47:01	2021-08-21T18:47:22	0:00:21	Unknown	Unknown
Michigan	Substation	331	2021-08-23T09:41:31	2021-08-23T09:41:52	0:00:21	Unknown	Unknown
Michigan	Substation	129	2021-08-27T10:57:34	2021-08-27T10:57:41	0:00:07	Unknown	Unknown. Weather moved through the area
Michigan	Substation	203	2021-08-27T10:57:42	2021-08-27T10:57:51	0:00:09	Unknown	Unknown. Weather moved through the area
Michigan	Substation	332	2021-09-13T18:02:29	2021-09-13T18:02:47	0:00:18	Equip Fail Fuse unknown cause	Blown Fuse
Michigan	Substation	332	2021-09-20T17:06:14	2021-09-20T17:06:33	0:00:19	Unknown	Unknown
Michigan	Substation	332	2021-10-02T10:50:46	2021-10-02T10:51:04	0:00:18	Unknown	Unknown
Millerton_Montpelier	Substation	63	2021-02-03T16:59:14	2021-02-03T16:59:26	0:00:12	Weather	Heavy frost on the conductors caused momentary and sustained outages when the wind blew..
Millerton_Montpelier	Substation	63	2021-02-03T17:34:09	2021-02-03T17:40:47	0:06:38	Weather	Heavy frost on the conductors caused momentary and sustained outages when the wind blew..
Millerton_Montpelier	Substation	63	2021-02-21T11:06:23	2021-02-21T11:06:41	0:00:18	Unknown	Unknown and not investigated.
Millerton_Montpelier	Substation	63	2021-04-11T21:15:52	2021-04-11T21:16:21	0:00:29	Equip Fail Insulator	Insulator failed and tracked causing pole to burn off.
Millerton_Montpelier	Substation	63	2021-05-09T14:22:06	2021-05-09T14:22:13	0:00:07	Vehicle Accident	Farmer rolling beans broke transmission pole approximately .8 mile north of the Nortonville Sub.
Millerton_Montpelier	Substation	63	2021-05-14T21:26:10	2021-05-14T21:26:20	0:00:10	Unknown	Unknown and not patrolled.
Millerton_Montpelier	Substation	63	2021-06-04T20:51:01	2021-06-04T21:07:29	0:16:28	Equip Fail Conductor	Conductor burned down approximately 4 miles north of the Edgeley Switching Station (Ring Bus Sub).
Millerton_Montpelier	Substation	63	2021-06-07T19:44:49	2021-06-07T19:44:58	0:00:09	Weather	Storm in the area.
Millerton_Montpelier	Substation	63	2021-06-07T19:51:32	2021-06-07T19:51:40	0:00:08	Weather	Storm in the area.
Millerton_Montpelier	Substation	63	2021-06-11T03:24:40	2021-06-11T03:25:51	0:01:11	Weather	Storm in the area.
Millerton_Montpelier	Substation	33	2021-06-25T06:36:03	2021-06-25T06:36:09	0:00:06	Unknown	Unknown and not investigated.
Millerton_Montpelier	Substation	63	2021-06-26T18:20:11	2021-06-26T18:20:20	0:00:09	Weather	Storm in the area.
Millerton_Montpelier	Substation	63	2021-08-07T20:22:46	2021-08-07T20:23:13	0:00:27	Weather	Storm in the area.
Millerton_Montpelier	Substation	62	2021-09-13T12:49:23	2021-09-13T12:49:33	0:00:10	Weather	Lightning, rain in the area.
Millerton_Montpelier	Substation	62	2021-09-19T09:25:34	2021-09-19T09:25:57	0:00:23	Unknown	Unknown and not investigated.
Millerton_Montpelier	Substation	33	2021-11-13T16:11:45	2021-11-13T16:11:51	0:00:06	Unknown	Unknown and not investigated. Strong winds.
Millerton_Montpelier	Substation	30	2021-11-13T16:12:00	2021-11-13T16:12:07	0:00:07	Unknown	Unknown and not investigated. Strong winds.
Millerton_Montpelier	Substation	33	2021-11-13T17:32:04	2021-11-13T17:32:10	0:00:06	Unknown	Unknown and not investigated. Strong winds.
Millerton_Montpelier	Substation	30	2021-11-13T17:32:20	2021-11-13T17:32:27	0:00:07	Unknown	Unknown and not investigated. Strong winds.
Millerton_Montpelier	Substation	33	2021-11-13T17:36:14	2021-11-13T17:36:21	0:00:07	Unknown	Unknown and not investigated. Strong winds.
Millerton_Montpelier	Substation	63	2021-11-17T17:57:24	2021-11-17T17:57:34	0:00:10	Unknown	Unknown and not investigated.

Milnor	Substation	554	2021-03-04T03:00:26	2021-03-04T03:11:27	0:11:01	Equip Fail Conductor	A splice on the 115 North of Gwinner burnt up and the line made contact with the ground causing the line to trip out.
Milnor	Substation	554	2021-04-26T21:20:58	2021-04-26T21:21:10	0:00:12	Equip Fail Arrester	Arrestor burnt up causing primary to fall to the ground.
Milnor	Substation	554	2021-04-26T21:39:57	2021-04-26T23:30:43	1:50:46	Equip Fail Arrester	AMB audited 4/28/21: Arrestor burnt up causing primary to fall to the ground.
Milnor	Substation	554	2021-05-22T09:46:22	2021-05-22T11:18:09	1:31:47	Equip Fail Arrester	AMB audited 5/25/21 - Arrestor failed and took down the whole town.
Milnor	Substation	554	2021-06-07T22:24:59	2021-06-07T22:25:11	0:00:12	Weather	Storms traveled through the area with winds heavy rain and lots of lightning.
Milnor	Substation	554	2021-07-20T07:00:39	2021-07-20T08:27:07	1:26:28	Planned	We had to inspect the transformer that has the itron meter on it. 1 customer was effected.
Milnor	Substation	554	2021-07-23T23:33:03	2021-07-23T23:35:01	0:01:58	Weather	Thunder storm with lots of lightning. 2 broken cross arms near Brampton had to be replaced.
Minnewaukan	Substation	260	2021-03-12T20:06:43	2021-03-12T21:20:34	1:13:51	other	Farmers burning ditches/sloughs burnt two transmission poles.
Minnewaukan	Substation	260	2021-04-30T11:45:32	2021-04-30T11:45:39	0:00:07	Unknown	Unknown
Minnewaukan	Substation	260	2021-05-21T09:31:03	2021-05-21T09:31:36	0:00:33	Equip Fail Insulator	Insulator failed on 41.6kv line west of Leeds
Minnewaukan	Substation	260	2021-05-21T09:32:44	2021-05-21T09:33:17	0:00:33	Equip Fail Insulator	Insulator failed on 41.6kv line west of Leeds
Minnewaukan	Substation	260	2021-05-21T09:42:43	2021-05-21T09:42:49	0:00:06	Equip Fail Insulator	Insulator failed on 41.6kv line west of Leeds
Minnewaukan	Substation	260	2021-05-21T09:44:13	2021-05-21T09:49:27	0:05:14	Equip Fail Insulator	Insulator failed on 41.6kv line west of Leeds
Minnewaukan	Substation	260	2021-05-29T22:32:19	2021-05-29T22:32:23	0:00:04	Weather	Storm moved through. Lots of lightning
Minnewaukan	Substation	260	2021-06-06T02:35:09	2021-06-06T04:05:18	1:30:09	Weather	Severe storm moved through with high winds. Broken insulators and failed breaker in SW.
Minnewaukan	Substation	260	2021-06-06T08:59:32	2021-06-06T09:01:53	0:02:21	Weather	Severe storm moved through with high winds. Broken insulators and failed breaker in SW.
Minnewaukan	Substation	260	2021-06-11T03:52:00	2021-06-11T04:00:47	0:08:47	Equip Fail Insulator	Insulator tracked across burning pole top off on 41.6kv line
Minnewaukan	Substation	260	2021-06-11T10:17:31	2021-06-11T10:20:19	0:02:48	Equip Fail Insulator	Insulator tracked across and burnt pole top off on 41.6kv line
Minnewaukan	Substation	260	2021-06-11T10:24:20	2021-06-11T11:08:07	0:43:47	Equip Fail Insulator	Insulator tracked across and burnt pole top off on 41.6kv line
Minnewaukan	Substation	260	2021-07-22T09:47:01	2021-07-22T10:46:05	0:59:04	Planned	Inspection of the Wag Transformer. Only one customer out.
Minnewaukan	Substation	260	2021-08-02T04:35:19	2021-08-02T04:35:27	0:00:08	Unknown	Unknown
Minnewaukan	Substation	260	2021-08-02T04:56:56	2021-08-02T04:57:03	0:00:07	Unknown	Unknown
Minnewaukan	Substation	260	2021-08-02T04:57:40	2021-08-02T04:57:44	0:00:04	Unknown	Unknown
Minnewaukan	Substation	260	2021-08-20T19:18:54	2021-08-20T20:54:32	1:35:38	Weather	Storm cell moved through area
Minnewaukan	Substation	260	2021-09-17T00:52:05	2021-09-17T00:52:15	0:00:10	Unknown	Unknown
Minnewaukan	Substation	260	2021-11-19T13:15:21	2021-11-19T13:15:26	0:00:05	Unknown	Unknown
Minto	Substation	451	2021-01-14T12:07:16	2021-01-14T12:07:20	0:00:04		
Minto	Substation	451	2021-03-22T19:00:37	2021-03-22T21:21:08	2:20:31	Equip Fail Substation	AMB audited 3/30/21 - Scheduled outage, changed high side arrestors and Fused cutouts. Issues were identified during substation inspections
Minto	Substation	451	2021-05-19T20:31:08	2021-05-19T20:31:15	0:00:07		

Minto	Substation	451	2021-07-24T13:01:49	2021-07-24T13:01:52	0:00:03		
Minto	Substation	451	2021-07-27T10:22:36	2021-07-27T10:24:04	0:01:28		
Minto	Substation	451	2021-07-27T10:30:09	2021-07-27T10:31:10	0:01:01		
Minto	Substation	451	2021-08-02T08:02:48	2021-08-02T08:02:56	0:00:08		
Minto	Substation	451	2021-08-09T15:36:24	2021-08-09T15:36:31	0:00:07		
Minto	Substation	451	2021-08-23T09:41:49	2021-08-23T09:41:55	0:00:06		
Minto	Substation	451	2021-09-20T17:06:34	2021-09-20T17:06:41	0:00:07		
Minto	Substation	451	2021-10-22T11:23:16	2021-10-22T11:23:23	0:00:07		
Minto	Substation	451	2021-11-24T01:53:19	2021-11-24T01:53:25	0:00:06		
Minto	Substation	451	2021-11-24T11:23:25	2021-11-24T11:23:34	0:00:09		
Mooreton	Substation	80	2021-07-05T02:11:58	2021-07-05T02:12:09	0:00:11	Unknown	41.6 line issue we will patrol and update if we find something.
Mooreton	Substation	67	2021-09-17T17:06:04	2021-09-17T17:06:48	0:00:44	Vehicle Accident	Farmer tore down 41.6 kva line west of Wahpeton
Mooreton	Substation	67	2021-10-13T16:41:51	2021-10-13T16:41:58	0:00:07	Weather	Severe storm was rolling through the area with strong winds and heavy rain.
Mooreton_MainFeeder	Feeder	126	2021-07-05T02:11:58	2021-07-05T02:12:20	0:00:22	Unknown	41.6 line issue we will patrol and update if we find something.
Mooreton_MainFeeder	Feeder	126	2021-09-17T17:06:20	2021-09-17T17:06:48	0:00:28	Vehicle Accident	Farmer tore down 41.6 kva line west of Wahpeton
Mooreton_MainFeeder	Feeder	126	2021-10-13T16:41:46	2021-10-13T16:41:55	0:00:09	Weather	Severe storm was rolling through the area with strong winds and heavy rain.
Mooreton_MainFeeder	Feeder	125	2021-11-27T14:09:58	2021-11-27T14:10:13	0:00:15	Equip Fail Other	Street light pole fell over and caused outage
Mooreton_RuralFeeder	Feeder	10	2021-07-26T16:24:43	2021-07-26T16:24:48	0:00:05	Animal	Squirrel on transformer in Mooreton
Mooreton_RuralFeeder	Feeder	10	2021-10-09T19:45:45	2021-10-09T19:45:52	0:00:07	Weather	Thunder storms and lightning in the area.
Munich	Substation	46	2021-02-02T13:20:52	2021-02-02T17:47:47	4:26:55	Equip Fail Insulator	AMB audited 2/26/21 - Due to heavy frost and windy conditions lines sagging and slapping together breaking an insulator and a cross arm
Munich	Substation	46	2021-02-02T18:02:09	2021-02-02T18:02:33	0:00:24	Weather	heavy frost and wind causing phases to sag and slap together
Munich	Substation	46	2021-04-11T08:08:54	2021-04-11T08:10:03	0:01:09	Unknown	no known cause
Munich	Substation	46	2021-06-06T03:13:45	2021-06-06T03:14:11	0:00:26	Weather	Severe storm with high winds moved through breaking poles, insulators, and failed breaker in SW
Munich	Substation	46	2021-06-06T03:21:46	2021-06-06T13:07:05	9:45:19	Weather	AMB audited 6/28/21 - Severe storm moved through breaking poles, cross arms, and insulators.
Munich	Substation	46	2021-06-06T16:02:23	2021-06-06T16:58:42	0:56:19	Equip Fail Insulator	Damaged insulator from storm broke burning pole top off.
Munich	Substation	46	2021-07-05T08:05:05	2021-07-05T08:06:00	0:00:55	Unknown	Unknown
Munich	Substation	46	2021-08-09T19:35:45	2021-08-09T19:36:15	0:00:30	Weather	Severe Storm system with rotation moved through the area.
Munich	Substation	46	2021-09-29T18:35:19	2021-09-29T18:36:22	0:01:03	Unknown	Unknown
Munich	Substation	46	2021-09-30T14:49:41	2021-09-30T14:50:51	0:01:10	Unknown	Unknown

Munich	Substation	46	2021-10-14T16:49:03	2021-10-14T16:49:29	0:00:26	Unknown	Unknown
Munich	Substation	46	2021-10-14T17:21:20	2021-10-14T17:21:49	0:00:29	Unknown	Unknown
Munich	Substation	46	2021-12-28T07:58:34	2021-12-28T07:58:59	0:00:25	Unknown	Unknown - winter storm in area.
Mylo_FeederSection	FeederSection	2	2021-06-06T00:27:26	2021-06-06T07:14:17	6:46:51	Weather	AMB audited 6/28/21 - Severe Storm moved through with high winds. multiple issues - insulators & cross arms broken Equipment tore down wire.
Mylo_FeederSection	FeederSection	2	2021-07-21T10:46:25	2021-07-21T12:20:06	1:33:41	Vehicle Accident	
Mylo_FeederSection	FeederSection	2	2021-08-24T11:17:59	2021-08-24T13:50:29	2:32:30	Equip Fail Insulator	AMB audited 8/27/21 - Insulator tracked across burning pole off
Mylo_FeederSection	FeederSection	1	2021-10-26T14:04:09	2021-10-26T15:42:23	1:38:14	Vehicle Accident	Trailer house being moved out and connection from the trailer was not disconnected from the pedestal causing fault when connection yanked Large branch went through line and took the conductor with it
Neche	Substation	364	2021-04-05T15:47:07	2021-04-05T16:21:48	0:34:41	Vegetation	
Neche	Substation	364	2021-04-05T16:22:26	2021-04-05T17:06:51	0:44:25	Vegetation	Large branch went through line and took the conductor with it
Neche	Substation	364	2021-06-05T20:27:36	2021-06-06T00:58:48	4:31:12	Weather	AMB audited 7/27/21 - Trees took down primary along with other widespread outages
Neche	Substation	364	2021-06-06T01:10:26	2021-06-06T01:53:40	0:43:14	Weather	storm damage broke 8 poles in the neche distribution
Neche	Substation	364	2021-06-20T12:29:31	2021-06-20T12:29:38	0:00:07		
Neche	Substation	364	2021-07-22T14:00:10	2021-07-22T15:44:51	1:44:41	Planned	AMB audited 8/27/21 - Neche sub was taken out to straighten sub poles and re-rock poles, over due maintenance
Neche	Substation	364	2021-10-10T03:52:48	2021-10-10T03:53:47	0:00:59		
Nekoma	Substation	68	2021-02-02T06:40:59	2021-02-02T07:49:28	1:08:29	Equip Fail Insulator	Insulator on the 41.6kv line near Fairdale broke in part due to heavy frost on the lines and wind picking up.
Nekoma	Substation	68	2021-02-02T14:06:15	2021-02-02T14:06:30	0:00:15	Weather	Heavy frost and wind causing phases to sag and slap together on east west lines
Nekoma	Substation	68	2021-02-02T14:23:02	2021-02-02T14:23:32	0:00:30	Weather	Heavy Frost with windy conditions causing phases to sag and slap together on east west lines.
Nekoma	Substation	68	2021-02-02T14:24:24	2021-02-02T15:16:13	0:51:49	Weather	Heavy Frost with windy conditions causing phases to sag and slap together on east west lines.
Nekoma	Substation	68	2021-02-02T16:53:01	2021-02-02T16:53:17	0:00:16	Weather	Heavy Frost with windy conditions causing phases to sag and slap together on east west lines.
Nekoma	Substation	68	2021-02-03T18:46:44	2021-02-03T18:49:54	0:03:10	Weather	Heavy Frost and wind causing phases to slap together. crews worked on beating ice off the lines for breaker to hold.
Nekoma	Substation	68	2021-02-03T18:51:20	2021-02-03T18:52:24	0:01:04	Weather	Heavy Frost and wind causing phases to slap together. crews worked on beating ice off the lines for breaker to hold.
Nekoma	Substation	68	2021-02-03T19:06:09	2021-02-03T19:17:59	0:11:50	Weather	Heavy Frost and wind causing phases to slap together. Crews worked on knocking ice of to restore service
Nekoma	Substation	68	2021-02-03T19:18:38	2021-02-03T19:50:58	0:32:20	Weather	Heavy Frost and wind causing phases to slap together. Crews worked on knocking ice of to restore service
Nekoma	Substation	68	2021-02-03T19:59:05	2021-02-03T20:12:52	0:13:47	Weather	Heavy Frost and wind causing phases to slap together. Crews worked on knocking ice of to restore service
Nekoma	Substation	68	2021-02-03T20:17:26	2021-02-03T20:17:40	0:00:14	Weather	Heavy Frost and wind causing phases to slap together. Crews worked on knocking ice of to restore service
Nekoma	Substation	68	2021-02-03T20:18:22	2021-02-03T20:25:22	0:07:00	Weather	Heavy Frost and wind causing phases to slap together. Crews worked on knocking ice of to restore service
Nekoma	Substation	68	2021-02-03T20:26:00	2021-02-03T20:33:39	0:07:39	Weather	Due to heavy frost and windy conditions, phases slapping together causing momentaries/outages. Field personnel knocked ice off in worst
Nekoma	Substation	68	2021-02-03T21:24:19	2021-02-03T22:16:22	0:52:03	Weather	Due to heavy frost and windy conditions, phases slapping together causing momentaries/outages. Field personnel knocked ice off in worst
Nekoma	Substation	68	2021-07-03T16:19:13	2021-07-03T17:53:36	1:34:23	Equip Fail Substation	Stormed moved through and Minnkota has issues in their 115kv Sub which is the OTP source in the area.

Nekoma	Substation	68	2021-07-19T19:47:33	2021-07-19T19:48:40	0:01:07	Weather	Weather moved through the area. Lots of lightning
Nekoma	Substation	68	2021-08-28T21:36:28	2021-08-28T21:36:34	0:00:06	Unknown	Unknown. Weather moved through the area
Nekoma	Substation	68	2021-09-01T07:16:19	2021-09-01T07:16:25	0:00:06	Unknown	Unknown
Nekoma	Substation	68	2021-11-08T21:52:25	2021-11-08T21:52:30	0:00:05	Vehicle Accident	Truck Broke Minnkota 115kv/69kv pole causing service to be lost to the area until switching could be done to move source to the 41.6kv.
Nekoma	Substation	68	2021-11-08T23:15:19	2021-11-08T23:17:15	0:01:56	Vehicle Accident	Truck Broke Minnkota 115kv/69kv pole causing service to be lost to the area until switching could be done to move source to the 41.6kv.
Nekoma	Substation	68	2021-11-08T23:18:19	2021-11-09T00:43:37	1:25:18	Vehicle Accident	Truck Broke Minnkota 115kv/69kv pole causing service to be lost to the area until switching could be done to move source to the 41.6kv.
New_Effington	Substation	205	2021-06-28T23:23:19	2021-06-28T23:23:28	0:00:09	Unknown	No customer calls
New_Effington	Substation	73	2021-09-07T17:52:43	2021-09-07T17:52:50	0:00:07		
New_Effington	Substation	205	2021-11-03T16:27:11	2021-11-03T16:27:25	0:00:14	Unknown	patrolled my 41.6 and didn't find anything
New_Effington	Substation	204	2021-11-16T14:54:31	2021-11-16T14:55:21	0:00:50	Vehicle Accident	Farmer made contact with our line opening the breaker in New Effington.
New_Effington_Rural	Substation	8	2021-08-09T17:18:49	2021-08-09T17:18:57	0:00:08		
New_Effington_Rural	Substation	8	2021-08-30T15:03:58	2021-08-30T15:33:55	0:29:57		
New_Rockford_North	Substation	569	2021-05-14T15:22:27	2021-05-14T15:22:47	0:00:20	Unknown	SEL 6.5 miles from Devils Lake SW 115 breaker 645. Cause unknown.
New_Rockford_North	Substation	569	2021-06-05T17:31:27	2021-06-05T18:53:40	1:22:13	Equip Fail Pole	Devils Lake Breaker 645 went to lock out due to pole fire north of Oberon approximately 3 miles.
New_Rockford_North	Substation	569	2021-06-06T08:59:13	2021-06-06T09:01:51	0:02:38	other	Sysop was having trouble getting Devils Lake breaker 615 to hold and the breaker went to lockout.
New_Rockford_North	Substation	569	2021-06-11T03:37:42	2021-06-11T03:38:23	0:00:41	Weather	Storm in the area.
New_Rockford_North	Substation	569	2021-08-17T08:10:44	2021-08-17T08:11:03	0:00:19	Unknown	SEL 18.8 miles from Devils Lake SW sub Breaker 645, which would put it around Fort Totten area. Cause unknown.
New_Rockford_North	Substation	569	2021-08-20T02:15:58	2021-08-20T02:17:00	0:01:02	Weather	Devils Lake breaker 645 and Carrington breaker 515 operated. Lightning in the area.
New_Rockford_North	Substation	569	2021-09-13T12:39:39	2021-09-13T12:40:06	0:00:27	Weather	SEL 48.6 miles from Devils Lake 645. Lightning & rain in the New Rockford area.
New_Rockford_North	Substation	569	2021-09-20T19:18:49	2021-09-20T19:19:13	0:00:24	Unknown	No SEL data. Line patrolled but no cause was found.
New_Rockford_North_WestFeeder	Feeder	386	2021-02-02T17:12:24	2021-02-02T17:12:39	0:00:15	Weather	Heavy frost on the conductors caused momentary and sustained outages when the wind blew..
New_Rockford_South	Substation	344	2021-05-14T15:22:28	2021-05-14T15:22:48	0:00:20	Unknown	SEL 6.5 miles from Devils Lake SW 115 breaker 645. Cause unknown.
New_Rockford_South	Substation	347	2021-06-05T17:31:32	2021-06-05T18:53:54	1:22:22	Equip Fail Pole	Devils Lake Breaker 645 went to lock out due to pole fire north of Oberon approximately 3 miles.
New_Rockford_South	Substation	348	2021-06-06T08:59:18	2021-06-06T09:01:56	0:02:38	other	Sysop was having trouble getting Devils Lake breaker 615 to hold and the breaker went to lockout.
New_Rockford_South	Substation	355	2021-06-11T03:37:36	2021-06-11T03:38:26	0:00:50	Weather	Storm in the area.
New_Rockford_South	Substation	345	2021-08-17T08:10:41	2021-08-17T08:11:05	0:00:24	Unknown	SEL 18.8 miles from Devils Lake SW sub Breaker 645, which would put it around Fort Totten area. Cause unknown.
New_Rockford_South	Substation	343	2021-08-20T02:15:54	2021-08-20T02:16:58	0:01:04	Weather	Devils Lake breaker 645 and Carrington breaker 515 operated. Lightning in the area.
New_Rockford_South	Substation	342	2021-09-13T12:39:47	2021-09-13T12:40:07	0:00:20	Weather	SEL 48.6 miles from Devils Lake 645. Lightning & rain in the New Rockford area.
New_Rockford_South	Substation	355	2021-09-20T19:18:46	2021-09-20T19:19:53	0:01:07	Unknown	No SEL data. Line patrolled but no cause was found.

New_Rockford_South_NorthFeeder	Feeder	158	2021-04-06T10:10:00	2021-04-06T10:47:35	0:37:35	Planned	Opened transformer for safety in climbing pole to work on secondaries.
New_Rockford_South_NorthFeeder	Feeder	148	2021-05-14T15:22:36	2021-05-14T15:22:43	0:00:07	Unknown	Ittron meter on the transformer pole. SEL 6.5 miles from Devils Lake SW 115 breaker 645. Cause unknown.
New_Rockford_South_NorthFeeder	Feeder	158	2021-06-05T17:31:25	2021-06-05T18:53:37	1:22:12	Equip Fail Pole	Devils Lake Breaker 645 went to lock out due to pole fire north of Oberon approximately 3 miles.
New_Rockford_South_NorthFeeder	Feeder	158	2021-06-06T08:59:12	2021-06-06T09:01:38	0:02:26	other	Sysop was having trouble getting Devils Lake breaker 615 to hold and the breaker went to lockout.
New_Rockford_South_NorthFeeder	Feeder	146	2021-06-11T03:37:42	2021-06-11T03:38:11	0:00:29	Weather	Storm in the area.
New_Rockford_South_NorthFeeder	Feeder	158	2021-08-13T17:34:41	2021-08-13T17:53:55	0:19:14	Equip Fail Conductor	Broken neutral jumper made contact with the phase and welded to it. Approximately 5-10 customers.
New_Rockford_South_NorthFeeder	Feeder	146	2021-08-17T08:10:44	2021-08-17T08:10:51	0:00:07	Unknown	SEL 18.8 miles from Devils Lake SW sub Breaker 645, which would put it around Fort Totten area. Cause unknown.
New_Rockford_South_NorthFeeder	Feeder	146	2021-08-20T02:15:58	2021-08-20T02:17:00	0:01:02	Weather	Devils Lake breaker 645 and Carrington breaker 515 operated. Lightning in the area.
New_Rockford_South_NorthFeeder	Feeder	158	2021-09-13T12:39:37	2021-09-13T12:39:48	0:00:11	Weather	SEL 48.6 miles from Devils Lake 645. Lightning & rain in the New Rockford area.
New_Rockford_South_NorthFeeder	Feeder	146	2021-09-20T19:18:47	2021-09-20T19:18:55	0:00:08	Unknown	No SEL data. Line patrolled but no cause was found.
Newark_Brampton	Substation	16	2021-06-14T23:50:50	2021-06-14T23:50:55	0:00:05		
Newark_Brampton	Substation	16	2021-07-23T23:47:21	2021-07-24T01:00:58	1:13:37	Weather	Thunder storm with lots of lightning. 2 broken cross arms near Brampton had to be replaced.
Newark_Brampton	Substation	16	2021-08-26T11:11:46	2021-08-26T11:11:56	0:00:10	Weather	Strong storms with lightning and strong winds caused numerous outages.
Newark_Brampton	Substation	16	2021-08-29T13:30:38	2021-08-29T13:31:49	0:01:11		
Niagara	Substation	63	2021-05-29T17:27:32	2021-05-29T17:30:18	0:02:46	Equip Fail Insulator	Pole top insulator tracked across burning pole top off
Niagara	Substation	63	2021-06-20T09:59:52	2021-06-20T10:31:13	0:31:21	Equip Fail Insulator	Pole Top insulator failed tracking across burning pole top off.
Niagara	Substation	63	2021-06-26T17:03:58	2021-06-26T17:04:10	0:00:12	Unknown	Unknown
Niagara	Substation	63	2021-06-27T16:03:09	2021-06-27T16:03:21	0:00:12	Unknown	Unknown
Niagara	Substation	63	2021-08-02T08:02:37	2021-08-02T08:02:50	0:00:13	Unknown	Unknown
Niagara	Substation	63	2021-08-09T15:36:12	2021-08-09T15:36:25	0:00:13	Weather	Severe storm moved through the area
Niagara	Substation	63	2021-08-20T08:04:58	2021-08-20T08:05:10	0:00:12	Unknown	Unknown
Niagara	Substation	63	2021-08-21T18:47:05	2021-08-21T18:47:19	0:00:14	Unknown	Unknown
Niagara	Substation	63	2021-08-23T09:41:37	2021-08-23T09:41:49	0:00:12	Unknown	Unknown
Niagara	Substation	63	2021-08-27T10:57:32	2021-08-27T10:58:00	0:00:28	Unknown	Unknown. Weather moved through the area
Niagara	Substation	23	2021-09-13T18:02:34	2021-09-13T18:02:42	0:00:08	Equip Fail Fuse unknown cause	Unknown
Niagara	Substation	40	2021-09-13T18:02:45	2021-09-13T18:02:56	0:00:11	Equip Fail Fuse unknown cause	Blown Fuse
Niagara	Substation	63	2021-09-20T17:06:19	2021-09-20T17:06:42	0:00:23	Unknown	Unknown
Niagara	Substation	43	2021-10-02T10:50:42	2021-10-02T10:50:59	0:00:17	Unknown	Unknown
Niagara	Substation	0	2021-10-02T10:50:57	2021-10-02T10:51:06	0:00:09	Unknown	Unknown

North_15th_Ave_Tap_FeederSection	FeederSection	15	2021-07-14T11:24:01	2021-07-14T11:24:07	0:00:06		
Nortonville	Substation	25	2021-02-03T17:34:08	2021-02-03T17:40:52	0:06:44	Weather	Heavy frost on the conductors caused momentary and sustained outages when the wind blew..
Nortonville	Substation	25	2021-02-21T11:06:23	2021-02-21T11:06:47	0:00:24	Unknown	Unknown and not investigated.
Nortonville	Substation	25	2021-03-29T14:14:50	2021-03-29T14:15:07	0:00:17	other	Fire burned pole between Jud and the Jud sub.
Nortonville	Substation	25	2021-03-29T15:32:01	2021-03-29T19:08:54	3:36:53	other	AMB audited 4/28/21: Fire burned pole between Jud and the Jud sub.
Nortonville	Substation	25	2021-04-11T21:15:46	2021-04-11T21:16:19	0:00:33	Equip Fail Insulator	Insulator failed and tracked causing pole to burn off.
Nortonville	Substation	25	2021-05-09T14:21:59	2021-05-09T14:23:03	0:01:04	Vehicle Accident	Farmer rolling beans broke transmission pole approximately .8 mile north of the Nortonville Sub.
Nortonville	Substation	25	2021-05-14T21:26:11	2021-05-14T21:26:32	0:00:21	Unknown	Unknown and not patrolled.
Nortonville	Substation	25	2021-06-04T20:50:55	2021-06-04T22:44:22	1:53:27	Equip Fail Conductor	Conductor burned down approximately 4 miles north of the Edgeley Switching Station (Ring Bus Sub).
Nortonville	Substation	25	2021-06-07T19:45:01	2021-06-07T19:45:17	0:00:16	Weather	Storm in the area.
Nortonville	Substation	25	2021-06-07T19:51:45	2021-06-07T19:51:58	0:00:13	Weather	Storm in the area.
Nortonville	Substation	25	2021-06-11T03:24:53	2021-06-11T03:25:04	0:00:11	Weather	Storm in the area.
Nortonville	Substation	25	2021-06-26T18:20:25	2021-06-26T18:20:37	0:00:12	Weather	Storm in the area.
Nortonville	Substation	25	2021-08-07T20:22:57	2021-08-07T20:23:10	0:00:13	Equip Fail Cutout	Replace broken cutout. Took the entire town out to replace the cutout due to 14.4 kv.
Nortonville	Substation	25	2021-08-07T22:08:31	2021-08-07T22:54:28	0:45:57	Weather	Storm in the area.
Nortonville	Substation	25	2021-08-24T00:27:35	2021-08-24T00:27:48	0:00:13	Vegetation	Lightning hit a tree, which split and fell, located behind the church on the west side of town.
Nortonville	Substation	25	2021-08-24T07:41:27	2021-08-24T08:34:15	0:52:48	Planned	Planned outage to repair line torn down when lightning hit a tree, which split and fell, located behind the church on the west side of Lightning, rain in the area.
Nortonville	Substation	25	2021-09-13T12:49:15	2021-09-13T12:49:34	0:00:19	Weather	
Nortonville	Substation	25	2021-09-19T09:25:41	2021-09-19T09:26:01	0:00:20	Unknown	SEL put the disturbance on CPEC line.
Nortonville	Substation	25	2021-09-21T11:06:49	2021-09-21T11:26:55	0:20:06	Equip Fail Arrester	Blown arrester at south end of Solinger Lumber on the west side.
Norwich	Substation	39	2021-01-14T04:23:16	2021-01-14T04:24:18	0:01:02	Weather	high gusting winds throughout the region caused phases to slap together.
Norwich	Substation	39	2021-01-14T04:58:01	2021-01-14T04:59:02	0:01:01	Weather	high gusting winds throughout the region caused phases to slap together.
Norwich	Substation	39	2021-02-16T06:56:03	2021-02-16T07:02:23	0:06:20	other	This was due to the Storms that hit Texas that caused major switching incidence up in our region. No fault of OTP
Norwich	Substation	39	2021-07-12T05:09:57	2021-07-12T05:10:06	0:00:09	Weather	Rain and high gusts during the morning caused multiple blinks throughout the region
Norwich	Substation	39	2021-07-12T05:14:39	2021-07-12T05:14:51	0:00:12	Weather	Rain and high gusts during the morning caused multiple blinks throughout the region
Norwich	Substation	39	2021-08-24T05:21:10	2021-08-24T05:21:27	0:00:17	Weather	no exact cause found, but it was windy and raining during the blink.
Norwich	Substation	39	2021-09-05T22:45:37	2021-09-06T01:06:51	2:21:14	other	AMB 9/28/21 - SRep found Mylar balloon tangled on one of our pieces of equipment which caused the fault.
Oakes_North_SouthFeeder	Feeder	352	2021-07-10T10:35:19	2021-07-10T10:35:25	0:00:06	Unknown	Unknown and not investigated.
Oakes_North_SouthFeeder	Feeder	352	2021-07-17T06:30:22	2021-07-17T06:30:30	0:00:08	Unknown	Unknown and not investigated.

Oakes_North_SouthFeeder	Feeder	352	2021-08-30T22:24:50	2021-08-30T22:24:58	0:00:08	Equip Fail Underground	Primary underground fault on 15th Ave N radial north of 88th St SE.
Oakes_North_SouthFeeder	Feeder	352	2021-10-05T13:10:57	2021-10-05T13:11:04	0:00:07	Unknown	Unknown but seeing a lot of bird activity.
Oakes_North_SouthFeeder	Feeder	352	2021-11-04T10:10:54	2021-11-04T10:10:59	0:00:05	Unknown	Edgeley 415/465 & Oakes 815/825 operated. SEL 6.6 miles from Edgeley and 40.0 miles from Oakes. Clear day. Cause unknown and Unknown and not investigated.
Oakes_South	Substation	639	2021-07-10T10:35:23	2021-07-10T10:35:35	0:00:12	Unknown	Unknown and not investigated.
Oakes_South	Substation	639	2021-07-17T06:30:23	2021-07-17T06:30:40	0:00:17	Unknown	Unknown and not investigated.
Oakes_South	Substation	639	2021-10-05T13:10:47	2021-10-05T13:11:07	0:00:20	Unknown	Unknown but seeing a lot of bird activity.
Oakes_South	Substation	639	2021-11-04T10:10:49	2021-11-04T10:11:14	0:00:25	Unknown	Edgeley 415/465 & Oakes 815/825 operated. SEL 6.6 miles from Edgeley and 40.0 miles from Oakes. Clear day. Cause unknown and Unknown and not investigated.
Oakes_South_EastFeeder	Feeder	118	2021-07-10T10:35:30	2021-07-10T10:35:35	0:00:05	Unknown	Unknown and not investigated.
Oakes_South_EastFeeder	Feeder	118	2021-07-17T06:30:35	2021-07-17T06:30:40	0:00:05	Unknown	Unknown and not investigated.
Oakes_South_EastFeeder	Feeder	118	2021-10-05T13:10:52	2021-10-05T13:10:58	0:00:06	Unknown	Unknown but seeing a lot of bird activity.
Oakes_South_EastFeeder	Feeder	334	2021-10-27T20:56:25	2021-10-27T20:57:28	0:01:03	Equip Fail Arrester	Blown arrester.
Oakes_South_EastFeeder	Feeder	118	2021-11-04T10:11:09	2021-11-04T10:11:14	0:00:05	Unknown	Edgeley 415/465 & Oakes 815/825 operated. SEL 6.6 miles from Edgeley and 40.0 miles from Oakes. Clear day. Cause unknown and Tree fell and broke cutout and arrester at James Valley Grain, Oakes.
Oakes_South_SouthFeeder	Feeder	149	2021-05-24T15:40:09	2021-05-24T15:40:22	0:00:13	Vegetation	Underground primary fault on radial fed cable near 106 S 5th St.
Oakes_South_SouthFeeder	Feeder	149	2021-07-04T14:24:06	2021-07-04T14:24:20	0:00:14	Equip Fail Underground	Underground primary fault on radial fed cable near 106 S 5th St.
Oakes_South_SouthFeeder	Feeder	149	2021-07-04T16:10:54	2021-07-04T16:11:04	0:00:10	Equip Fail Underground	Underground primary fault on radial fed cable near 106 S 5th St.
Oakes_South_SouthFeeder	Feeder	149	2021-07-04T16:33:20	2021-07-04T16:33:32	0:00:12	Equip Fail Underground	Underground primary fault on radial fed cable near 106 S 5th St.
Oakes_South_SouthFeeder	Feeder	149	2021-08-27T06:40:12	2021-08-27T06:40:35	0:00:23	Equip Fail Underground	Underground primary fault by Four Star AG/Vistows.
Oakes_South_SouthFeeder	Feeder	149	2021-08-27T08:22:12	2021-08-27T08:22:36	0:00:24	Equip Fail Underground	Underground primary fault by Four Star AG/Vistows.
Oakes_South_SouthFeeder	Feeder	149	2021-09-11T02:06:56	2021-09-11T02:07:12	0:00:16	Equip Fail Underground	Underground primary fault on radial fed cable by 4 Star Ag.
Oakes_South_SouthFeeder	Feeder	149	2021-09-11T10:37:38	2021-09-11T10:38:41	0:01:03	Equip Fail Underground	Underground primary fault on radial fed cable by 4 Star Ag.
Oakes_South_SouthFeeder	Feeder	149	2021-09-14T13:51:07	2021-09-14T13:51:25	0:00:18	other	Underground cable dug into while installing new cable to replace faulted cable.
Oakes_South_WestFeeder	Feeder	368	2021-05-27T09:20:04	2021-05-27T09:41:02	0:20:58	Equip Fail Cutout	Broken cutout at city shop on 2nd St S & Ivy.
Oakes_South_WestFeeder	Feeder	368	2021-06-11T03:56:17	2021-06-11T05:24:28	1:28:11	Weather	Storm in the area.
Oakes_South_WestFeeder	Feeder	159	2021-07-10T10:35:23	2021-07-10T10:35:29	0:00:06	Unknown	Unknown and not investigated.
Oakes_South_WestFeeder	Feeder	159	2021-07-17T06:30:23	2021-07-17T06:30:34	0:00:11	Unknown	Unknown and not investigated.
Oakes_South_WestFeeder	Feeder	368	2021-08-19T18:34:20	2021-08-19T18:34:28	0:00:08	Animal	Squirrel caused fault blowing cutout fuse on the transformer.
Oakes_South_WestFeeder	Feeder	159	2021-10-05T13:11:01	2021-10-05T13:11:07	0:00:06	Unknown	Unknown but seeing a lot of bird activity.
Oakes_South_WestFeeder	Feeder	159	2021-11-04T10:10:57	2021-11-04T10:11:03	0:00:06	Unknown	Edgeley 415/465 & Oakes 815/825 operated. SEL 6.6 miles from Edgeley and 40.0 miles from Oakes. Clear day. Cause unknown and Broken insulator on the 12.5kv line
Olmstead_EgelandFeederSection	FeederSection	3	2021-02-22T16:47:02	2021-02-22T17:20:10	0:33:08	Equip Fail Insulator	

Olmstead_EgelandFeederSection	FeederSection	1	2021-04-21T05:55:47	2021-04-21T05:56:51	0:01:04	Unknown	Unknown
Olmstead_EgelandFeederSection	FeederSection	1	2021-04-27T23:56:59	2021-04-27T23:57:03	0:00:04	Unknown	Unknown
Olmstead_EgelandFeederSection	FeederSection	1	2021-06-01T16:05:02	2021-06-01T16:05:09	0:00:07	Unknown	Unknown
Olmstead_EgelandFeederSection	FeederSection	1	2021-06-16T03:17:49	2021-06-16T03:17:59	0:00:10	Unknown	Unknown
Olmstead_EgelandFeederSection	FeederSection	1	2021-06-23T22:27:45	2021-06-23T22:27:53	0:00:08	Unknown	Unknown
Olmstead_EgelandFeederSection	FeederSection	1	2021-08-09T09:48:12	2021-08-09T09:48:19	0:00:07	Weather	Severe storm moved through the area
Olmstead_EgelandFeederSection	FeederSection	1	2021-08-24T10:52:32	2021-08-24T10:52:39	0:00:07	Lightning	Storm moved through and lightning blew a number of fuses in the sub.
Olmstead_EgelandFeederSection	FeederSection	2	2021-08-24T10:52:49	2021-08-24T15:13:12	4:20:23	Lightning	AMB audited 8/27/21 - Storm moved through and lightning blew a number of fuses in the sub.
Olmstead_EgelandFeederSection	FeederSection	1	2021-10-27T15:58:47	2021-10-27T15:58:52	0:00:05	Unknown	Unknown
Olmstead_EgelandFeederSection	FeederSection	3	2021-11-15T06:07:59	2021-11-15T06:22:58	0:14:59	Equip Fail Insulator	Insulator tracked across burning pole off with recloser on it.
Olmstead_EgelandFeederSection	FeederSection	3	2021-12-29T02:39:14	2021-12-29T03:54:44	1:15:30	Equip Fail Conductor	Conductor on 41.6 broke in the extreme cold. 27 below.
Oriska	Substation	86	2021-03-25T14:41:37	2021-03-25T14:41:54	0:00:17	Equip Fail Pole	Transmission pole sheered off by the ice on Sanborn Lake along old Hwy 10, east of Hwy 1.
Oriska	Substation	86	2021-08-24T01:54:04	2021-08-24T01:54:21	0:00:17	Weather	Storm in the area.
Oriska	Substation	30	2021-09-14T11:40:17	2021-09-14T11:40:24	0:00:07	Unknown	Cause unknown.
Oriska	Substation	59	2021-10-04T15:37:06	2021-10-04T15:37:39	0:00:33	Unknown	Investigated, cause unknown. SEL mileage south of Buffalo. A lot of hawk activity as crops are being harvested.
Oriska	Substation	31	2021-12-08T09:57:39	2021-12-08T09:57:50	0:00:11	Equip Fail Fuse unknown cause	Boiler failure at the old school in Oriska caused OCR to operate.
Oriska	Substation	59	2021-12-09T23:04:42	2021-12-10T01:48:09	2:43:27	Equip Fail Substation	Refused bayonet, a different bayonet fuse blew causing OCR to SEL 12.8 miles from Buffalo 345 kv sub breaker 745. Found failed PT on the 41.6 kv bay in the sub.
Oriska	Substation	59	2021-12-15T12:29:38	2021-12-15T13:19:46	0:50:08	Equip Fail Arrester	Blown arrester caused high side cutout to crack in the Tower City Sub.
Osnabrock_Jct	Substation	19	2021-02-02T06:40:58	2021-02-02T07:49:37	1:08:39	Equip Fail Insulator	Insulator on the 41.6kv line near Fairdale broke in part due to heavy frost on the lines and wind picking up.
Osnabrock_Jct	Substation	19	2021-02-02T14:06:23	2021-02-02T14:06:39	0:00:16	Weather	Heavy frost and wind causing phases to sag and slap together on east west lines
Osnabrock_Jct	Substation	19	2021-02-02T14:23:10	2021-02-02T14:23:41	0:00:31	Weather	Heavy Frost with windy conditions causing phases to sag and slap together on east west lines.
Osnabrock_Jct	Substation	19	2021-02-02T14:24:32	2021-02-02T15:16:22	0:51:50	Weather	Heavy Frost with windy conditions causing phases to sag and slap together on east west lines.
Osnabrock_Jct	Substation	19	2021-02-03T18:46:44	2021-02-03T18:50:04	0:03:20	Weather	Heavy Frost and wind causing phases to slap together. crews worked on beating ice off the lines for breaker to hold.
Osnabrock_Jct	Substation	19	2021-02-03T18:51:28	2021-02-03T18:52:31	0:01:03	Weather	Heavy Frost and wind causing phases to slap together. crews worked on beating ice off the lines for breaker to hold.
Osnabrock_Jct	Substation	19	2021-02-03T19:06:07	2021-02-03T19:51:07	0:45:00	Weather	Heavy Frost and wind causing phases to slap together. Crews worked on knocking ice of to restore service
Osnabrock_Jct	Substation	19	2021-02-03T19:59:14	2021-02-03T20:13:01	0:13:47	Weather	Heavy Frost and wind causing phases to slap together. Crews worked on knocking ice of to restore service
Osnabrock_Jct	Substation	19	2021-02-03T20:17:35	2021-02-03T20:17:48	0:00:13	Weather	Heavy Frost and wind causing phases to slap together. Crews worked on knocking ice of to restore service
Osnabrock_Jct	Substation	19	2021-02-03T20:18:31	2021-02-03T20:25:29	0:06:58		
Osnabrock_Jct	Substation	19	2021-02-03T20:26:08	2021-02-03T20:33:47	0:07:39	Weather	Due to heavy frost and windy conditions, phases slapping together causing momentaries/outages. Field personnel knocked ice off in worst

Osnabrock_Jct	Substation	19	2021-02-03T21:24:28	2021-02-03T21:45:45	0:21:17	Weather	Due to heavy frost and windy conditions, phases slapping together causing momentaries/outages. Field personnel knocked ice off in worst
Osnabrock_Jct	Substation	19	2021-06-29T18:47:12	2021-06-29T19:29:29	0:42:17	Bird	Two fuses blown in the sub and two dead birds
Osnabrock_Jct	Substation	19	2021-07-03T16:19:27	2021-07-03T17:53:50	1:34:23	Equip Fail Substation	Stormed moved through and Minnkota has issues in their 115kv Sub which is the OTP source in the area.
Osnabrock_Jct	Substation	19	2021-07-19T19:47:42	2021-07-19T19:47:51	0:00:09	Weather	Weather moved through the area. Lots of lightning
Osnabrock_Jct	Substation	19	2021-08-28T21:36:22	2021-08-28T21:37:22	0:01:00	Unknown	Unknown. Weather moved through the area
Osnabrock_Jct	Substation	19	2021-09-01T07:16:13	2021-09-01T07:17:15	0:01:02	Unknown	Unknown
Osnabrock_Jct	Substation	19	2021-11-08T21:52:40	2021-11-08T21:52:44	0:00:04	Vehicle Accident	Truck broke Minnekota 115/69 pole causing outage to the area.
Osnabrock_Jct	Substation	19	2021-11-08T23:15:35	2021-11-08T23:17:31	0:01:56	Vehicle Accident	Truck Broke Minnkota 115kv/69kv pole causing service to be lost to the area until switching could be done to move source to the 41.6kv.
Osnabrock_Jct	Substation	19	2021-11-08T23:18:35	2021-11-09T00:43:54	1:25:19	Vehicle Accident	Truck Broke Minnkota 115kv/69kv pole causing service to be lost to the area until switching could be done to move source to the 41.6kv.
Osnabrock_Jct	Substation	19	2021-11-23T08:49:45	2021-11-23T08:49:51	0:00:06	Equip Fail Pole	Several lightning damaged pole found in remote area.
Osnabrock_Jct	Substation	19	2021-11-26T09:11:28	2021-11-26T12:17:26	3:05:58	Equip Fail Pole	AMB audit 11/30/21 - Replaced 4 distribution poles damaged by lightning in remote area.
Page_PageFeeder	Feeder	113	2021-05-01T09:04:02	2021-05-01T09:04:28	0:00:26	Unknown	SEL is 13.0 miles from Buffalo 745. Patrolled but cause not known.
Page_PageFeeder	Feeder	113	2021-12-09T23:04:52	2021-12-10T00:42:11	1:37:19	Equip Fail Substation	SEL 12.8 miles from Buffalo 345 kv sub breaker 745. Found failed PT on the 41.6 kv bay in the sub.
Parshall	Substation	715	2021-01-14T03:43:06	2021-01-14T03:43:18	0:00:12	Weather	High wind and moisture caused conductors to gallop and slap together throughout the region
Parshall	Substation	715	2021-01-14T04:06:16	2021-01-14T04:06:38	0:00:22	Weather	High wind and moisture caused conductors to gallop and slap together throughout the region
Parshall	Substation	715	2021-01-14T04:20:21	2021-01-14T04:20:45	0:00:24	Weather	High wind and moisture caused conductors to gallop and slap together throughout the region
Parshall	Substation	715	2021-01-14T04:38:14	2021-01-14T04:38:23	0:00:09	Weather	High wind and moisture caused conductors to gallop and slap together throughout the region
Parshall	Substation	715	2021-02-23T04:36:25	2021-02-23T04:44:41	0:08:16	other	WAPA had trouble on their 115 kv line so they switched to CEPEC Mallard sub to supply power to Max CEPEC 115 sub that provides OTP
Parshall	Substation	715	2021-06-06T01:37:35	2021-06-06T01:38:01	0:00:26	Weather	Storms were moving across north and central ND causing blinks
Parshall	Substation	715	2021-08-04T07:52:12	2021-08-04T07:52:39	0:00:27	Unknown	SRep could not find a reason for blink after patrolling.
Parshall	Substation	715	2021-08-09T02:57:04	2021-08-09T02:57:25	0:00:21	Lightning	storm came through causing Lightning, Hail and rain
Parshall	Substation	715	2021-09-15T11:42:08	2021-09-15T11:42:35	0:00:27	Unknown	Cause unknown. SRep patrolled the following day and didnt find any direct cause.
Parshall_EastFeeder	Feeder	260	2021-05-23T22:40:47	2021-05-23T22:40:54	0:00:07	Weather	SRep believes the storm that rolled through the area caused a blink.
Parshall_EastFeeder	Feeder	260	2021-05-23T22:47:31	2021-05-23T22:47:38	0:00:07	Weather	SRep believes the storm that rolled through the area caused a blink.
Parshall_WestFeeder	Feeder	455	2021-01-14T03:30:43	2021-01-14T03:30:49	0:00:06	Weather	High wind and moisture caused conductors to gallop and slap together throughout the region
Parshall_WestFeeder	Feeder	455	2021-01-14T04:04:54	2021-01-14T04:05:02	0:00:08	Weather	High wind and moisture caused conductors to gallop and slap together throughout the region
Parshall_WestFeeder	Feeder	455	2021-10-29T00:00:22	2021-10-29T00:00:30	0:00:08	Equip Fail Insulator	Insulator pin pulled out of rotten cross arm and faulted to pole and cross arm
Pekin	Substation	154	2021-02-07T19:13:41	2021-02-07T21:06:57	1:53:16	Equip Fail Conductor	AMB audited 2/26/21 - 41.6kv phase burned down mid span south of Pekin. McVilleville Breaker communication did not work and McVilleville Jct
Pekin	Substation	95	2021-03-23T20:39:40	2021-03-23T20:57:03	0:17:23	Equip Fail Insulator	Broken Insulator on 41.6kv line between Aneta and Finley

Pekin	Substation	95	2021-04-23T10:29:41	2021-04-23T10:29:55	0:00:14	other	Some one lit a grass fire and it burned several 41.6kv poles.
Pekin	Substation	95	2021-05-02T13:11:00	2021-05-02T13:11:15	0:00:15	Unknown	Unknown
Pekin	Substation	95	2021-05-30T12:25:15	2021-05-30T12:25:38	0:00:23	Unknown	Unknown
Pekin	Substation	36	2021-06-11T04:33:25	2021-06-11T04:33:30	0:00:05	Equip Fail Pole	41.6kv broke in storm
Pekin	Substation	59	2021-06-11T04:33:37	2021-06-11T04:33:45	0:00:08	Equip Fail Pole	Pole Broke in Severe Storm with High winds
Pekin	Substation	95	2021-06-26T17:03:55	2021-06-26T17:04:13	0:00:18	Unknown	Unknown
Pekin	Substation	95	2021-06-27T16:03:08	2021-06-27T16:04:09	0:01:01	Unknown	Unknown
Pekin	Substation	95	2021-07-19T13:22:56	2021-07-19T13:23:54	0:00:58	Weather	Weather moved through the area. Lots of lightning
Pekin	Substation	95	2021-07-19T20:37:26	2021-07-19T20:37:48	0:00:22	Weather	Weather moved through the area. Lots of lightning
Pekin	Substation	95	2021-08-09T13:07:50	2021-08-09T14:07:23	0:59:33	Weather	Severe storm moved through the area
Pekin	Substation	95	2021-08-09T15:36:10	2021-08-09T15:36:30	0:00:20	Weather	Severe storm moved through area
Pekin	Substation	95	2021-08-09T20:23:39	2021-08-09T20:27:46	0:04:07	Vegetation	Tree fell into 41.6kv line due to severe storm
Pekin	Substation	35	2021-08-09T21:06:32	2021-08-09T21:06:39	0:00:07	Vegetation	Severe storm moved through causing tree to fall into 41.6kv line
Pekin	Substation	60	2021-08-09T21:06:44	2021-08-09T21:06:52	0:00:08	Vegetation	Severe storm moved through causing tree to fall into 41.6kv line
Pekin	Substation	95	2021-08-20T08:04:57	2021-08-20T08:05:59	0:01:02	Unknown	Unknown
Pekin	Substation	65	2021-08-31T16:14:03	2021-08-31T16:14:12	0:00:09	Unknown	Unknown
Pekin	Substation	30	2021-08-31T16:14:13	2021-08-31T16:14:20	0:00:07	Unknown	Unknown
Pekin	Substation	95	2021-09-20T17:06:15	2021-09-20T17:06:41	0:00:26	Unknown	Uknown
Pekin	Substation	95	2021-12-31T08:51:56	2021-12-31T09:11:27	0:19:31	Equip Fail Conductor	Broken splice on conductor
Pembina	Substation	283	2021-10-10T03:52:33	2021-10-10T03:53:49	0:01:16		
Pembina_EastFeeder	Feeder	93	2021-07-01T20:38:04	2021-07-01T20:38:54	0:00:50		
Pembina_EastFeeder	Feeder	93	2021-08-10T10:24:15	2021-08-10T10:49:31	0:25:16	Vegetation	Large branch feel across 3 phases
Pembina_EastFeeder	Feeder	93	2021-08-29T02:08:38	2021-08-29T02:09:48	0:01:10		
Pembina_EastFeeder	Feeder	93	2021-09-03T16:26:57	2021-09-03T16:27:18	0:00:21		
Pembina_StVincentFeederSection	FeederSection	90	2021-08-10T10:01:19	2021-08-10T10:01:26	0:00:07	Vegetation	Large branch feel across 3 phases
Pembina_WestFeeder	Feeder	190	2021-08-10T10:01:20	2021-08-10T11:25:21	1:24:01	Vegetation	Large branch feel across 3 phases
Pembina_WestFeeder	Feeder	190	2021-08-13T09:16:36	2021-08-13T09:16:42	0:00:06		
Penn	Substation	26	2021-03-12T20:06:53	2021-03-12T20:41:10	0:34:17	other	Farmers burning ditches/sloughs burnt two transmission poles.
Penn	Substation	26	2021-04-30T11:45:41	2021-04-30T11:45:49	0:00:08	Unknown	Unknown

Penn	Substation	26	2021-05-07T09:14:43	2021-05-07T09:36:55	0:22:12	Equip Fail Substation	Broken disconnect in the sub.
Penn	Substation	26	2021-05-21T09:31:14	2021-05-21T09:31:46	0:00:32	Equip Fail Insulator	Insulator failed on 41.6kv line west of Leeds
Penn	Substation	26	2021-05-21T09:32:55	2021-05-21T09:33:27	0:00:32	Equip Fail Insulator	Insulator failed on 41.6kv line west of Leeds
Penn	Substation	26	2021-05-21T09:42:53	2021-05-21T09:43:00	0:00:07	Equip Fail Insulator	Insulator failed on 41.6kv line west of Leeds
Penn	Substation	26	2021-05-21T09:44:24	2021-05-21T09:49:37	0:05:13	Equip Fail Insulator	Insulator failed on 41.6kv line west of Leeds
Penn	Substation	26	2021-05-29T22:32:09	2021-05-29T22:32:14	0:00:05	Weather	Storm moved through - Lots of Lightning
Penn	Substation	26	2021-06-06T02:35:01	2021-06-06T03:34:34	0:59:33	Weather	Severe storm moved through with high winds. Broken insulators and failed breaker in SW.
Penn	Substation	26	2021-06-07T18:06:23	2021-06-07T20:46:23	2:40:00	Equip Fail Fuse unknown cause	AMB audited 6/28/21 - Two high side fuses blown - no cause found.
Penn	Substation	26	2021-06-11T03:51:50	2021-06-11T04:00:37	0:08:47	Weather	Severe Storm moved through area with high winds and lightning
Penn	Substation	26	2021-06-11T10:17:22	2021-06-11T10:20:09	0:02:47	Equip Fail Insulator	Insulator tracked across and burnt pole top off on 41.6kv line
Penn	Substation	26	2021-06-11T10:24:10	2021-06-11T11:07:57	0:43:47	Equip Fail Insulator	Insulator tracked across and burnt pole top off on 41.6kv line
Penn	Substation	26	2021-08-02T04:35:11	2021-08-02T06:12:37	1:37:26	Unknown	Unknown
Penn	Substation	26	2021-08-20T19:18:48	2021-08-20T21:18:48	2:00:00	Weather	Storm cell moved through area
Penn	Substation	26	2021-09-17T00:52:01	2021-09-17T00:53:02	0:01:01	Unknown	Unknown
Penn	Substation	26	2021-11-19T13:15:14	2021-11-19T13:15:19	0:00:05	Unknown	Unknown
Petersburg	Substation	179	2021-05-29T17:27:34	2021-05-29T17:30:15	0:02:41	Equip Fail Insulator	Bad pole top insulator
Petersburg	Substation	179	2021-06-20T09:59:54	2021-06-20T10:31:10	0:31:16	Equip Fail Insulator	Pole Top insulator failed tracking across burning pole top off.
Petersburg	Substation	179	2021-06-26T17:04:02	2021-06-26T17:04:07	0:00:05	Unknown	Unknown
Petersburg	Substation	179	2021-06-27T16:03:12	2021-06-27T16:03:18	0:00:06	Unknown	Unknown
Petersburg	Substation	179	2021-08-02T08:02:40	2021-08-02T08:02:47	0:00:07	Unknown	Unknown
Petersburg	Substation	179	2021-08-09T15:36:16	2021-08-09T15:36:22	0:00:06	Weather	Severe storm moved through the area
Petersburg	Substation	179	2021-08-20T08:05:01	2021-08-20T08:05:07	0:00:06	Unknown	Unknown
Petersburg	Substation	179	2021-08-21T18:47:08	2021-08-21T18:47:16	0:00:08	Unknown	Unknown
Petersburg	Substation	179	2021-08-23T09:41:38	2021-08-23T09:41:46	0:00:08	Unknown	Unknown
Petersburg	Substation	179	2021-08-27T10:57:50	2021-08-27T10:57:58	0:00:08	Unknown	Unknown. Weather moved through the area
Petersburg	Substation	179	2021-09-13T18:02:37	2021-09-13T18:02:44	0:00:07	Equip Fail Fuse unknown cause	Blown Fuse
Petersburg	Substation	179	2021-09-20T17:06:22	2021-09-20T17:06:29	0:00:07	Unknown	Unknown
Petersburg	Substation	179	2021-10-01T09:35:13	2021-10-01T09:35:22	0:00:09	Unknown	Unknown
Petersburg	Substation	179	2021-10-02T10:50:54	2021-10-02T10:51:01	0:00:07	Unknown	Unknown

Petersburg	Substation	179	2021-10-15T13:30:00	2021-10-15T13:30:58	0:00:58	Planned	Planned outage to change XFMR out.
Petersburg_East_Rural	Substation	1	2021-04-21T13:27:34	2021-04-21T14:54:47	1:27:13	Equip Fail Other	AMB audited 5/25/21 - Replaced rotten broke cross arm
Petersburg_East_Rural	Substation	1	2021-05-29T17:27:36	2021-05-29T17:30:19	0:02:43	Equip Fail Insulator	Bad pole top insulator
Petersburg_East_Rural	Substation	1	2021-06-20T09:59:57	2021-06-20T10:31:14	0:31:17	Equip Fail Insulator	Pole Top insulator failed tracking across burning pole top off.
Petersburg_East_Rural	Substation	1	2021-06-26T17:04:05	2021-06-26T17:04:11	0:00:06	Unknown	Unknown
Petersburg_East_Rural	Substation	1	2021-06-27T16:03:15	2021-06-27T16:03:21	0:00:06	Unknown	Unknown
Petersburg_East_Rural	Substation	1	2021-08-02T08:02:42	2021-08-02T08:02:51	0:00:09	Unknown	Uknown
Petersburg_East_Rural	Substation	1	2021-08-09T15:36:19	2021-08-09T15:36:26	0:00:07	Weather	Severe storm moved through the area
Petersburg_East_Rural	Substation	1	2021-08-20T08:05:02	2021-08-20T08:05:11	0:00:09	Unknown	Unknown
Petersburg_East_Rural	Substation	1	2021-08-21T18:47:12	2021-08-21T18:47:19	0:00:07	Unknown	Unknown
Petersburg_East_Rural	Substation	1	2021-08-23T09:41:43	2021-08-23T09:41:50	0:00:07	Unknown	Unknown
Petersburg_East_Rural	Substation	1	2021-08-27T10:57:54	2021-08-27T10:58:02	0:00:08	Unknown	Unknown. Weather moved through the area
Petersburg_East_Rural	Substation	1	2021-09-13T18:02:46	2021-09-13T18:02:53	0:00:07	Equip Fail Fuse unknown cause	Blown Fuse
Petersburg_East_Rural	Substation	1	2021-09-20T17:06:31	2021-09-20T17:06:38	0:00:07	Unknown	Unknown
Petersburg_East_Rural	Substation	1	2021-10-02T10:50:41	2021-10-02T10:50:48	0:00:07	Unknown	Unknown
Petersburg_East_Rural	Substation	1	2021-12-02T09:42:58	2021-12-02T10:50:26	1:07:28	Planned	House Move
Pizza_Ranch_Riser_FeederSection	FeederSection	115	2021-06-17T07:40:17	2021-06-17T07:40:45	0:00:28	Animal	Bird in a transformer
Post_Office_Tap_FeederSection	FeederSection	6	2021-06-17T07:40:38	2021-06-17T07:40:47	0:00:09	Animal	Bird in a transformer
Prantes_Riser_FeederSection	FeederSection	12	2021-06-07T10:01:23	2021-06-07T10:54:10	0:52:47	Vehicle Accident	Farm sprayer raised into the 230 line near Mooreton ND
Regan	Substation	32	2021-02-02T01:42:23	2021-02-02T03:52:08	2:09:45	Equip Fail Pole	AMB audited 3/1/21 - insulator and Xarm on different poles broke on the same stretch of line causing line to gallop and ground out.
Regan	Substation	32	2021-02-03T15:51:20	2021-02-03T15:51:32	0:00:12	Unknown	SRep could not find an exact cause of blink
Regan	Substation	32	2021-05-22T00:19:28	2021-05-22T00:19:51	0:00:23	Weather	Storm rolled through the area during the night and into the day. SReps couldn't find any specific issues.
Regan	Substation	32	2021-06-08T21:52:05	2021-06-08T22:04:17	0:12:12	Weather	Lightning storm passed through the area causing multiple area's to have a blink.
Regan	Substation	32	2021-07-05T23:16:25	2021-07-05T23:30:59	0:14:34	Equip Fail Pole	Pole fire caused outage. was fixed on the 7th of the month
Regan	Substation	32	2021-07-16T11:34:16	2021-07-16T11:34:23	0:00:07	Unknown	Momentary blink throughout the area. Unknown cause as of now.
Regan	Substation	32	2021-07-16T11:37:08	2021-07-16T11:37:17	0:00:09	Unknown	Momentary blink throughout the area. Unknown cause as of now.
Regan	Substation	32	2021-09-29T12:56:44	2021-09-29T13:03:52	0:07:08	Lightning	2 poles struck by lightning on the 41.6kv. Poles have been changed out and should be good now.
Rock_Lake	Substation	6	2021-01-10T12:00:04	2021-01-10T12:48:02	0:47:58	Equip Fail Pole	4 Poles in a row broke off due to heavy frost and 25 mile an hours winds.
Rock_Lake	Substation	6	2021-01-29T08:35:32	2021-01-29T08:36:17	0:00:45	Equip Fail Substation	Two Disconnects failed in the Rock Lake Substation

Rock_Lake	Substation	6	2021-01-29T08:37:53	2021-01-29T08:38:19	0:00:26	Equip Fail Substation	Two Disconnects failed in the Rock Lake Substation
Rock_Lake	Substation	6	2021-01-29T08:39:21	2021-01-29T08:39:43	0:00:22	Equip Fail Substation	Two Disconnects failed in the Rock Lake Substation
Rock_Lake	Substation	10	2021-01-29T08:40:25	2021-01-29T10:28:26	1:48:01	Equip Fail Substation	Two Disconnects failed in the Rock Lake Substation
Rock_Lake	Substation	6	2021-02-03T20:33:17	2021-02-03T21:06:22	0:33:05	Equip Fail Substation	Breaker that feeds towns to the south Langdon was open due to Frost and wind. When dispatched attempted to close several times, breaker
Rock_Lake	Substation	2	2021-05-13T14:20:50	2021-05-13T14:21:58	0:01:08		
Rock_Lake	Substation	6	2021-06-05T19:15:38	2021-06-05T19:16:05	0:00:27	Weather	Severe thunder storm with 60 - 70 mile hour wind gust broke 4 41.6kv poles off on feed to dresden jct.
Rock_Lake	Substation	6	2021-06-05T19:24:02	2021-06-05T20:29:42	1:05:40	Weather	Severe thunder storm with 60 - 70 mile hour wind gust broke 4 41.6kv poles off on feed to dresden jct.
Rock_Lake	Substation	6	2021-06-06T09:25:17	2021-06-06T09:26:07	0:00:50	Weather	Severe storm moved through breaking poles, cross arms, and insulators.
Rock_Lake	Substation	6	2021-06-06T09:52:12	2021-06-06T09:59:23	0:07:11	Weather	Severe storm moved through breaking poles, cross arms, and insulators.
Rock_Lake	Substation	6	2021-06-06T16:02:20	2021-06-06T16:58:41	0:56:21	Equip Fail Insulator	Damaged insulator from storm broke burning pole top off.
Rock_Lake	Substation	6	2021-06-09T05:09:49	2021-06-09T06:23:36	1:13:47	Weather	Storm Moved through causing several outages.
Rock_Lake	Substation	6	2021-06-09T10:12:02	2021-06-09T10:56:47	0:44:45	Weather	Storm Moved through causing several outages.
Rock_Lake	Substation	6	2021-07-03T16:19:10	2021-07-03T18:25:52	2:06:42	Equip Fail Substation	AMB audited 8/2/21 - Storm moved through and Minnkota has issues in their 115kV Sub which is the OTP source in the area.
Rock_Lake	Substation	6	2021-07-19T19:42:18	2021-07-19T19:42:45	0:00:27	Weather	weather moved through the area.
Rock_Lake	Substation	6	2021-08-09T09:46:43	2021-08-09T09:49:11	0:02:28	Weather	Severe storm moved through the area
Rock_Lake	Substation	6	2021-08-09T20:48:26	2021-08-09T20:49:38	0:01:12	Weather	Severe Storm system with rotation moved through the area.
Rock_Lake	Substation	6	2021-08-20T15:57:03	2021-08-20T15:57:25	0:00:22	Weather	Storm cell moved through area
Rock_Lake	Substation	6	2021-08-24T07:08:26	2021-08-24T07:08:52	0:00:26	Unknown	Weather moved through the area.
Rock_Lake	Substation	6	2021-09-17T09:13:22	2021-09-17T09:14:07	0:00:45	Equip Fail Conductor	Broken conductor on 41.6kv transmission line
Rock_Lake	Substation	6	2021-09-17T09:25:03	2021-09-17T10:19:54	0:54:51	Equip Fail Conductor	Broken conductor on 41.6kv transmission line
Rock_Lake	Substation	6	2021-11-08T21:52:22	2021-11-08T21:53:27	0:01:05	Vehicle Accident	Truck broke Minnkota Pole
Rock_Lake	Substation	6	2021-11-08T23:15:16	2021-11-08T23:17:30	0:02:14	Vehicle Accident	Truck Broke Minnkota 115/69 pole causing service to be lost the Langdon area.
Rock_Lake	Substation	6	2021-11-08T23:18:10	2021-11-08T23:44:57	0:26:47	Vehicle Accident	Truck broke Minnkota Pole causing outage to the area.
Rogers_Leal	Substation	48	2021-01-30T03:16:06	2021-01-30T04:23:22	1:07:16	Equip Fail Pole	Transmission pole top broke off. Pole had been damaged by lightning years earlier.
Rogers_Leal	Substation	48	2021-02-02T20:17:54	2021-02-02T20:18:09	0:00:15	Weather	Heavy frost on the conductors caused momentary and sustained outages when the wind blew..
Rogers_Leal	Substation	48	2021-02-03T20:19:28	2021-02-03T20:19:47	0:00:19	Weather	Heavy frost on the conductors caused momentary and sustained outages when the wind blew..
Rogers_Leal	Substation	48	2021-02-03T21:45:24	2021-02-03T21:45:44	0:00:20	Weather	Heavy frost on the conductors caused momentary and sustained outages when the wind blew..
Rogers_Leal	Substation	48	2021-02-03T22:24:24	2021-02-03T22:24:44	0:00:20	Weather	Heavy frost on the conductors caused momentary and sustained outages when the wind blew..
Rogers_Leal	Substation	48	2021-02-03T23:46:27	2021-02-03T23:46:48	0:00:21	Weather	Heavy frost on the conductors caused momentary and sustained outages when the wind blew..

Rogers_Leal	Substation	48	2021-02-04T00:32:22	2021-02-04T00:33:18	0:00:56	Weather	Heavy frost on the conductors caused momentary and sustained outages when the wind blew..
Rogers_Leal	Substation	48	2021-02-04T00:36:24	2021-02-04T00:36:43	0:00:19	Weather	Heavy frost on the conductors caused momentary and sustained outages when the wind blew..
Rogers_Leal	Substation	48	2021-04-14T21:52:54	2021-04-14T21:53:59	0:01:05	Unknown	Interruption put location closer to Cooperstown. Line patrolled. Nothing found.
Rogers_Leal	Substation	48	2021-05-02T13:11:06	2021-05-02T13:11:24	0:00:18	Unknown	SEL is 2.5 miles north of Sanborn. Patrolled but cause not known.
Rogers_Leal	Substation	48	2021-05-19T19:27:17	2021-05-19T19:27:57	0:00:40	Weather	Thunderstorms and lightning in the area.
Rogers_Leal	Substation	48	2021-05-24T15:24:16	2021-05-24T15:24:34	0:00:18	Equip Fail Insulator	Broken transmission insulator approximately 1 mile north of Cooperstown in the slough.
Rogers_Leal	Substation	48	2021-05-24T15:25:10	2021-05-24T15:31:48	0:06:38	Equip Fail Insulator	Broken transmission insulator approximately 1 mile north of Cooperstown in the slough.
Rogers_Leal	Substation	48	2021-07-19T13:22:55	2021-07-19T13:23:50	0:00:55	Weather	Storm in the Finley area tripped Pickert 925.
Rogers_Leal	Substation	48	2021-07-26T08:52:28	2021-07-26T08:52:46	0:00:18	Equip Fail Insulator	Squirrel made contact in the sub and caused damage to a bus insulator.
Rogers_Leal	Substation	48	2021-09-02T19:43:15	2021-09-02T19:43:31	0:00:16	Weather	Rain/lightning in the area.
Rogers_Leal	Substation	48	2021-09-17T07:50:06	2021-09-17T13:16:02	5:25:56	Planned	AMB 9/28/21 - Cutover and conversion of the Rogers substation from corner grounded delta to wye.
Rogers_Leal	Substation	48	2021-10-05T08:36:26	2021-10-05T08:37:29	0:01:03	Unknown	Investigated but cause unknown. SEL mileage by Sanborn.
Rolette_Mylo_Perth	Substation	2	2021-03-23T15:45:26	2021-03-23T16:16:42	0:31:16	Equip Fail Insulator	Insulator tracked across the 69kv line and burnt top of the pole off between Belcourt and Rolla
Rolette_Mylo_Perth	Substation	2	2021-04-01T15:32:14	2021-04-01T15:39:07	0:06:53	Equip Fail Other	Rotten cross arm fell into transformer bank.
Rolette_Mylo_Perth	Substation	2	2021-04-13T15:35:11	2021-04-13T15:35:42	0:00:31	Vehicle Accident	Semi slid off the road breaking 69kv pole with distribution.
Rolette_Mylo_Perth	Substation	2	2021-05-28T19:22:48	2021-05-28T19:23:12	0:00:24	Unknown	Unknown
Rolette_Mylo_Perth	Substation	0	2021-06-06T01:59:58	2021-06-06T07:03:17	5:03:19	Weather	AMB audited 6/28/21 - Severe Storm moved through with high winds.
Rolette_Mylo_Perth	Substation	2	2021-06-11T03:32:48	2021-06-11T03:33:11	0:00:23	Vegetation	multiple issues - insulators & cross arms broken Tree fell through line from Severe weather
Rolette_Mylo_Perth	Substation	2	2021-06-11T03:44:38	2021-06-11T03:45:00	0:00:22	Vegetation	Tree fell through line from Severe weather
Rolette_Mylo_Perth	Substation	2	2021-06-11T14:31:51	2021-06-11T18:02:52	3:31:01	Vegetation	AMB audited 6/28/21 - Due to high winds, large tree fell through distribution line
Rolette_Mylo_Perth	Substation	2	2021-07-02T11:32:25	2021-07-02T11:32:48	0:00:23	Vegetation	Tree issue in town.
Rolette_Mylo_Perth	Substation	2	2021-07-02T12:48:12	2021-07-02T12:48:36	0:00:24	Vegetation	Tree issue in town.
Rolette_Mylo_Perth	Substation	2	2021-08-04T10:02:20	2021-08-04T10:02:40	0:00:20	Weather	Storm moved through
Rolette_Mylo_Perth	Substation	2	2021-08-09T06:52:28	2021-08-09T06:52:47	0:00:19	Weather	Storm cell moved through area
Rolette_Mylo_Perth	Substation	2	2021-08-09T07:07:01	2021-08-09T07:07:21	0:00:20	Weather	Storm cell moved through area
Rolette_Mylo_Perth	Substation	2	2021-08-20T20:31:37	2021-08-20T20:31:59	0:00:22	Weather	Storm cell moved through area
Rolette_Mylo_Perth	Substation	2	2021-08-24T10:52:37	2021-08-24T10:52:58	0:00:21	Lightning	Storm moved through and lightning blew a number of fuses in the sub.
Rolla_Northwest_St_JohnFeeder	Feeder	249	2021-02-02T07:21:25	2021-02-02T07:21:36	0:00:11	Weather	Heavy Frost on the lines and wind is picking up causing momentaries
Rolla_Northwest_St_JohnFeeder	Feeder	249	2021-02-02T11:58:50	2021-02-02T11:58:59	0:00:09	Weather	Heavy frost and wind causing phases to sag and slap together on east west line sections

Rolla_Northwest_St_JohnFeeder	Feeder	249	2021-02-02T12:11:40	2021-02-02T12:11:54	0:00:14	Weather	Heavy frost and wind causing phases to sag and slap together on east west line sections
Rolla_Northwest_St_JohnFeeder	Feeder	249	2021-03-23T15:45:28	2021-03-23T16:06:36	0:21:08	Equip Fail Insulator	Insulator tracked across the 69kv line and burnt top of the pole off between Belcourt and Rolla
Rolla_Northwest_St_JohnFeeder	Feeder	249	2021-04-13T15:35:18	2021-04-13T15:35:43	0:00:25	Vehicle Accident	Semi slid off the road breaking 69kv pole with distribution.
Rolla_Northwest_St_JohnFeeder	Feeder	249	2021-06-06T02:18:35	2021-06-06T02:18:42	0:00:07	Weather	Severe thunderstorm moved through causing damage and momentaries throughout the system.
Rolla_Northwest_St_JohnFeeder	Feeder	249	2021-06-11T03:44:52	2021-06-11T03:44:56	0:00:04	Equip Fail Pole	Broken XFMR Pole due to severe storm and high winds
Rolla_Northwest_St_JohnFeeder	Feeder	249	2021-07-19T18:32:02	2021-07-19T18:32:10	0:00:08	Weather	Weather moved through the area. Lots of Momentaries - Lightning
Rolla_Northwest_St_JohnFeeder	Feeder	249	2021-07-19T23:22:54	2021-07-19T23:23:03	0:00:09	Weather	Weather moved through the area. Lots of Momentaries - Lightning
Rolla_Northwest_St_JohnFeeder	Feeder	249	2021-07-19T23:24:37	2021-07-19T23:24:43	0:00:06	Weather	Weather moved through the area. Lots of Momentaries - Lightning
Rolla_Northwest_St_JohnFeeder	Feeder	249	2021-08-04T10:02:25	2021-08-04T10:02:32	0:00:07	Weather	Storm moved through
Rolla_Northwest_St_JohnFeeder	Feeder	249	2021-08-09T06:52:33	2021-08-09T06:52:39	0:00:06	Weather	Storm cell moved through area
Rolla_Northwest_St_JohnFeeder	Feeder	249	2021-08-09T07:07:06	2021-08-09T07:07:12	0:00:06	Weather	Storm cell moved through area
Rolla_Northwest_St_JohnFeeder	Feeder	249	2021-08-17T13:49:03	2021-08-17T13:49:07	0:00:04	Equip Fail Fuse unknown cause	Blown XFMR Fuse
Rolla_Southeast	Substation	817	2021-03-23T15:45:20	2021-03-23T16:06:20	0:21:00	Equip Fail Insulator	Insulator tracked across the 69kv line and burnt top of the pole off between Belcourt and Rolla
Rolla_Southeast	Substation	817	2021-04-13T15:35:02	2021-04-13T15:35:27	0:00:25	Vehicle Accident	Semi slid off the road breaking 69kv pole with distribution.
Rolla_Southeast	Substation	817	2021-06-11T03:44:56	2021-06-11T03:45:01	0:00:05	Equip Fail Pole	Broken XFMR Pole due to high winds
Rolla_Southeast	Substation	817	2021-08-04T10:02:29	2021-08-04T10:02:37	0:00:08	Weather	Storm Moved Through
Rolla_Southeast	Substation	817	2021-08-09T06:52:37	2021-08-09T06:52:45	0:00:08	Weather	Storm cell moved through area
Rolla_Southeast	Substation	817	2021-08-09T07:07:11	2021-08-09T07:07:18	0:00:07	Weather	Storm cell moved through area
Rolla_Southeast_EastFeeder	Feeder	551	2021-05-28T17:36:38	2021-05-28T17:36:45	0:00:07	Unknown	Unknown
Rolla_Southeast_EastFeeder	Feeder	551	2021-06-11T03:43:51	2021-06-11T03:43:55	0:00:04	Equip Fail Pole	Broken XFMR Pole due to high winds
Rolla_Southeast_EastFeeder	Feeder	551	2021-06-11T03:46:31	2021-06-11T03:46:43	0:00:12	Equip Fail Pole	Broken XFMR Pole due to high winds
Rolla_Southeast_EastFeeder	Feeder	551	2021-07-06T12:12:28	2021-07-06T12:12:34	0:00:06	Unknown	Unknown
Rolla_Southeast_EastFeeder	Feeder	551	2021-08-04T18:36:00	2021-08-04T18:58:36	0:22:36	Weather	Storm moved through
Rolla_Southeast_EastFeeder	Feeder	551	2021-08-29T13:23:15	2021-08-29T13:23:21	0:00:06	Unknown	Unknown. Weather moved through the area
Rolla_Southeast_EastFeeder	Feeder	551	2021-09-02T15:11:34	2021-09-02T15:11:38	0:00:04	Equip Fail Fuse unknown cause	Blown Dist Fuse
Rolla_Southeast_EastFeeder	Feeder	551	2021-09-14T04:56:39	2021-09-14T04:56:48	0:00:09	Unknown	Unknown
Rolla_Southeast_EastFeeder	Feeder	551	2021-09-23T12:15:32	2021-09-23T12:15:39	0:00:07	Unknown	Unknown
Rolla_Southeast_EastFeeder	Feeder	551	2021-11-01T12:43:50	2021-11-01T12:43:59	0:00:09	Unknown	Unknown
Rolla_Southeast_EastFeeder	Feeder	551	2021-11-06T11:05:54	2021-11-06T11:06:05	0:00:11	Unknown	Unknown

Rolla_Southeast_EastFeeder	Feeder	551	2021-11-23T12:56:28	2021-11-23T12:56:34	0:00:06	Unknown	Unknown
Rolla_Southeast_WestFeeder	Feeder	266	2021-02-02T13:00:17	2021-02-02T13:00:35	0:00:18	Weather	Heavy frost and wind causing phases to sag and slap together on east west line sections
Rolla_Southeast_WestFeeder	Feeder	266	2021-02-02T14:48:09	2021-02-02T14:48:27	0:00:18	Weather	Heavy frost with windy conditions causing phases to sag and slap together on east west lines.
Rolla_Southeast_WestFeeder	Feeder	266	2021-02-02T15:33:23	2021-02-02T15:33:41	0:00:18	Weather	Heavy frost with windy conditions causing phases to sag and slap together on east west lines.
Rolla_Southeast_WestFeeder	Feeder	266	2021-02-02T18:13:04	2021-02-02T18:13:23	0:00:19	Weather	Heavy frost with windy conditions causing phases to sag and slap together on east west lines.
Rolla_Southeast_WestFeeder	Feeder	266	2021-06-11T03:47:09	2021-06-11T03:47:16	0:00:07	Equip Fail Pole	Broken XFMR Pole due to severe storm and high winds
Rolla_Southeast_WestFeeder	Feeder	266	2021-09-08T11:52:50	2021-09-08T11:53:03	0:00:13	Unknown	Unknown
Rolla_Southeast_WestFeeder	Feeder	266	2021-11-07T17:34:04	2021-11-07T17:34:14	0:00:10	Unknown	Unknown
Rolla_Southeast_WestFeeder	Feeder	266	2021-11-07T18:41:12	2021-11-07T18:41:19	0:00:07	Unknown	Unknown
Rosholt	Substation	280	2021-06-09T00:06:52	2021-06-09T00:07:09	0:00:17	Animal	Family of Racoons on power pole.
Rosholt	Substation	280	2021-06-09T01:52:32	2021-06-09T02:09:44	0:17:12	Animal	Family of Racoons on power pole.
Rosholt	Substation	280	2021-06-11T09:03:02	2021-06-11T09:03:08	0:00:06		
Rosholt	Substation	280	2021-06-11T09:04:48	2021-06-11T09:05:04	0:00:16		
Rosholt	Substation	280	2021-08-21T11:31:16	2021-08-21T11:32:23	0:01:07	Vehicle Accident	Something tore line down, no one took responsibility for damage.
Rosholt	Substation	280	2021-09-02T05:12:10	2021-09-02T05:12:17	0:00:07	Unknown	Line patrol was done and SEL put it at the switches but we could not find any reason for outage.
Roth	Substation	4	2021-04-11T23:21:45	2021-04-12T00:06:35	0:44:50	Equip Fail Pole	Pole started on fire between Landa and Roth on the 41.6kv
Roth	Substation	4	2021-07-06T13:16:06	2021-07-06T13:24:32	0:08:26	other	Sub Tech inadvertently caused outage.
Roth	Substation	4	2021-07-07T11:05:02	2021-07-07T11:06:23	0:01:21	Equip Fail Arrester	SRep stated that an arrester blew.
Roth	Substation	4	2021-07-18T01:49:10	2021-07-18T01:49:29	0:00:19	Unknown	SRep could not find a reason
Roth	Substation	4	2021-07-20T00:53:45	2021-07-20T00:54:09	0:00:24	Animal	SRep could not find exact cause, but believe it was an animal caused outage.
Roth	Substation	4	2021-07-20T01:16:15	2021-07-20T01:16:35	0:00:20	Animal	SRep could not find exact cause, but believes it was an animal caused outage.
Roth	Substation	4	2021-08-09T17:44:53	2021-08-09T17:45:14	0:00:21	Lightning	storm came through causing Lightning, Hail and rain
Roth	Substation	4	2021-08-16T13:12:32	2021-08-16T13:12:50	0:00:18	Unknown	SRep did not have a reason for the blink. Did not find anything when patrolling.
Roth	Substation	4	2021-09-20T19:47:10	2021-09-20T20:16:18	0:29:08	Equip Fail Fuse unknown cause	SRep found a blown fuse. believes it was animal related.
Rugby_NorthWest_EastFeeder	Feeder	1074	2021-04-02T08:41:10	2021-04-02T08:41:16	0:00:06	Unknown	SRep could not find a reason for the blink
Rugby_NorthWest_EastFeeder	Feeder	1074	2021-07-27T12:54:11	2021-07-27T12:54:19	0:00:08	Animal	SRep stated he thinks a bird or animal tripped the beaker
Rugby_NorthWest_EastFeeder	Feeder	1074	2021-08-08T09:05:37	2021-08-08T09:05:45	0:00:08	Unknown	Jeff Olsen drove line and could not find reason. Believe it could be an arrester, but havent found anything yet
Rugby_NorthWest_EastFeeder	Feeder	1074	2021-08-20T15:48:31	2021-08-20T15:48:36	0:00:05	Weather	Windy and lightning out. possible lightning strike is the cause according to the SRep
Rugby_South	Substation	728	2021-06-11T03:26:26	2021-06-11T03:26:46	0:00:20	Weather	A storm with higher than normal wind gusts passed through the region causing blinks

RutlandND	Substation	213	2021-07-23T23:47:23	2021-07-24T04:39:55	4:52:32		
RutlandND	Substation	213	2021-08-26T11:11:43	2021-08-26T11:12:03	0:00:20		
RutlandND	Substation	213	2021-08-29T13:30:42	2021-08-29T13:31:03	0:00:21		
RutlandND	Substation	213	2021-11-02T00:11:27	2021-11-02T00:11:45	0:00:18		
Ryder	Substation	86	2021-01-14T03:25:56	2021-01-14T03:26:10	0:00:14	Weather	High wind and moisture caused conductors to gallop and slap together throughout the region
Ryder	Substation	121	2021-01-14T03:43:10	2021-01-14T03:43:28	0:00:18	Weather	High wind and moisture caused conductors to gallop and slap together throughout the region
Ryder	Substation	121	2021-01-14T04:06:17	2021-01-14T04:06:50	0:00:33	Weather	High winds and gusts throughout the area caused multiple momentaries throughout the region.
Ryder	Substation	121	2021-01-14T04:20:25	2021-01-14T04:20:56	0:00:31	Weather	heavy winds and gusts caused multiple momentary's throughout the region.
Ryder	Substation	121	2021-01-14T04:38:18	2021-01-14T04:38:33	0:00:15	Weather	High wind and moisture caused conductors to gallop and slap together throughout the region
Ryder	Substation	121	2021-01-14T05:20:43	2021-01-14T05:21:01	0:00:18	Weather	High wind and moisture caused conductors to gallop and slap together throughout the region
Ryder	Substation	121	2021-01-14T05:30:21	2021-01-14T05:30:38	0:00:17	Weather	High wind and moisture caused conductors to gallop and slap together throughout the region
Ryder	Substation	121	2021-01-14T05:32:18	2021-01-14T05:32:36	0:00:18	Weather	High wind and moisture caused conductors to gallop and slap together throughout the region
Ryder	Substation	121	2021-01-14T05:33:34	2021-01-14T05:34:15	0:00:41	Weather	High winds and gusts throughout the area caused multiple momentaries throughout the region.
Ryder	Substation	121	2021-02-23T04:36:10	2021-02-23T04:43:44	0:07:34	other	WAPA had trouble on their 115 kv line so they switched to CEPEC Mallard sub to supply power to Max CEPEC 115 sub that provides OTP
Ryder	Substation	121	2021-06-06T01:37:37	2021-06-06T01:37:58	0:00:21	Weather	Storms were moving across north and central ND causing blinks
Ryder	Substation	121	2021-08-04T07:52:16	2021-08-04T07:52:38	0:00:22	Unknown	SRep could not find a reason for blink after patrolling.
Ryder	Substation	121	2021-08-09T02:57:06	2021-08-09T02:58:14	0:01:08	Lightning	storm came through causing Lightning, Hail and rain
Ryder	Substation	50	2021-09-01T18:06:28	2021-09-01T18:06:33	0:00:05	Unknown	No cause was found.
Ryder	Substation	50	2021-09-15T11:42:11	2021-09-15T11:42:16	0:00:05	Unknown	Cause unknown. SRep patrolled the following day and didnt find any direct cause.
Ryder	Substation	75	2021-09-15T11:42:27	2021-09-15T11:42:34	0:00:07	Unknown	Cause unknown. SRep patrolled the following day and didnt find any direct cause.
Sanborn	Substation	142	2021-02-03T06:56:54	2021-02-03T06:57:17	0:00:23	Weather	Heavy frost on the conductors caused momentary and sustained outages when the wind blew..
Sanborn	Substation	143	2021-06-11T08:52:23	2021-06-11T09:45:04	0:52:41	Weather	Storm in the area.
Sanborn	Substation	143	2021-07-20T06:15:41	2021-07-20T07:09:50	0:54:09	Planned	Planned outage to replace the jumpers on bypass 103 in the Sanborn Sub.
Sanborn	Substation	54	2021-09-03T16:35:21	2021-09-03T16:35:31	0:00:10	Unknown	SEL 9.2 miles from Spiritwood Breaker 415. Cause unknown.
Sanborn	Substation	89	2021-09-03T16:35:33	2021-09-03T16:35:43	0:00:10	Unknown	SEL 9.2 miles from Spiritwood Breaker 415. Cause unknown.
Sardis_Brocket	Substation	64	2021-05-17T14:52:49	2021-05-17T14:53:09	0:00:20	other	Switch flashed over due to loading when dispatch opened it.
Sardis_Brocket	Substation	64	2021-05-29T17:27:28	2021-05-29T17:45:57	0:18:29	Equip Fail Insulator	Pole top insulator tracked across burning pole top off
Sardis_Brocket	Substation	64	2021-06-26T17:03:59	2021-06-26T17:04:15	0:00:16	Unknown	Unknown
Sardis_Brocket	Substation	23	2021-06-27T16:03:07	2021-06-27T16:03:15	0:00:08	Unknown	Unknown

Sardis_Brocket	Substation	41	2021-06-27T16:03:17	2021-06-27T16:03:26	0:00:09	Unknown	Unknown
Sardis_Brocket	Substation	64	2021-08-09T15:36:11	2021-08-09T15:36:32	0:00:21	Weather	Severe storm moved through the area
Sardis_Brocket	Substation	64	2021-08-20T08:04:59	2021-08-20T08:05:16	0:00:17	Unknown	Unknown
Sardis_Brocket	Substation	63	2021-08-27T10:57:35	2021-08-27T10:57:52	0:00:17	Unknown	Unknown. Weather moved through the area
Sardis_Brocket	Substation	23	2021-09-13T18:13:22	2021-09-13T18:13:31	0:00:09	Equip Fail Fuse unknown cause	Blown Fuse
Sardis_Brocket	Substation	64	2021-09-13T18:44:50	2021-09-13T19:10:05	0:25:15	Equip Fail Fuse unknown cause	Blown Fuse
Sardis_Brocket	Substation	44	2021-09-20T17:06:12	2021-09-20T17:06:25	0:00:13	Unknown	Uknown
Sardis_Brocket	Substation	20	2021-09-20T17:06:34	2021-09-20T17:06:42	0:00:08	Unknown	Unknown
Sardis_Brocket	Substation	44	2021-10-02T10:50:46	2021-10-02T10:50:56	0:00:10	Unknown	Unknown
Sardis_Brocket	Substation	23	2021-11-07T09:17:02	2021-11-07T09:17:09	0:00:07	Unknown	Unknown
Sawyer	Substation	233	2021-01-14T02:50:26	2021-01-14T02:51:04	0:00:38	Weather	High winds and gusts throughout the area caused multiple momentaries throughout the region.
Sawyer	Substation	233	2021-01-14T02:54:40	2021-01-14T02:55:10	0:00:30	Weather	High wind and moisture caused conductors to gallop and slap together throughout the region
Sawyer	Substation	233	2021-01-14T02:59:46	2021-01-14T03:00:27	0:00:41	Weather	High winds and gusts throughout the area caused multiple momentaries throughout the region.
Sawyer	Substation	232	2021-01-14T03:52:13	2021-01-14T03:53:00	0:00:47	Weather	High winds and gusts throughout the area caused multiple momentaries throughout the region.
Sawyer	Substation	234	2021-01-14T03:54:29	2021-01-14T03:55:15	0:00:46	Weather	High winds and gusts throughout the area caused multiple momentaries throughout the region.
Sawyer	Substation	457	2021-01-14T03:58:00	2021-01-14T04:58:36	1:00:36	other	AMB audited 3/1/21 - Lost our feed from Central power. Very high winds.
Selz	Substation	42	2021-04-03T10:31:48	2021-04-03T10:32:05	0:00:17	Equip Fail Arrester	Arrester fail
Selz	Substation	24	2021-06-20T09:23:41	2021-06-20T09:25:05	0:01:24	Equip Fail Pole	A pole with a 3 phase riser and high side metering burned in two.
Selz	Substation	42	2021-06-20T09:26:01	2021-06-20T14:20:09	4:54:08	Equip Fail Pole	Pole started on fire. SRep and ALC had to temporary the top of the pole to get power back on .
Selz	Substation	42	2021-07-12T06:59:43	2021-07-12T07:01:52	0:02:09	Weather	Rain and high gusts during the morning caused multiple blinks throughout the region
Selz	Substation	42	2021-07-12T11:29:53	2021-07-12T14:01:04	2:31:11	Planned	AMB audit 7/29/21 - Per Nick: planned outage to fix a pole that had fire damage.
Selz	Substation	42	2021-07-14T17:38:57	2021-07-14T17:39:15	0:00:18	Lightning	Lightning storm was traveling through the area and caused a few blinks on its way through
Sewer_Lift_Tap_FeederSection	FeederSection	63	2021-07-14T11:23:59	2021-07-14T11:24:14	0:00:15		
Shepard	Substation	12	2021-01-30T03:16:06	2021-01-30T03:57:04	0:40:58	Equip Fail Pole	Transmission pole top broke off. Pole had been damaged by lightning years earlier.
Shepard	Substation	12	2021-02-02T20:17:54	2021-02-02T20:18:11	0:00:17	Weather	Heavy frost on the conductors caused momentary and sustained outages when the wind blew..
Shepard	Substation	12	2021-02-03T20:19:27	2021-02-03T20:19:49	0:00:22	Weather	Heavy frost on the conductors caused momentary and sustained outages when the wind blew..
Shepard	Substation	12	2021-02-03T21:45:24	2021-02-03T21:45:46	0:00:22	Weather	Heavy frost on the conductors caused momentary and sustained outages when the wind blew..
Shepard	Substation	12	2021-02-03T22:24:24	2021-02-03T22:24:46	0:00:22	Weather	Heavy frost on the conductors caused momentary and sustained outages when the wind blew..
Shepard	Substation	12	2021-02-03T23:46:27	2021-02-03T23:46:50	0:00:23	Weather	Heavy frost on the conductors caused momentary and sustained outages when the wind blew..

Shepard	Substation	12	2021-02-04T00:32:22	2021-02-04T00:33:20	0:00:58	Weather	Heavy frost on the conductors caused momentary and sustained outages when the wind blew..
Shepard	Substation	11	2021-02-04T00:36:27	2021-02-04T00:36:45	0:00:18	Weather	Heavy frost on the conductors caused momentary and sustained outages when the wind blew..
Shepard	Substation	12	2021-04-14T21:52:51	2021-04-14T21:54:00	0:01:09	Unknown	Interruption put location closer to Cooperstown. Line patrolled. Nothing found.
Shepard	Substation	12	2021-05-02T13:11:02	2021-05-02T13:11:22	0:00:20	Unknown	SEL is 2.5 miles north of Sanborn. Patrolled but cause not known.
Shepard	Substation	12	2021-05-19T19:27:17	2021-05-19T19:27:53	0:00:36	Weather	Thunderstorms and lightning in the area.
Shepard	Substation	12	2021-05-24T15:24:16	2021-05-24T15:24:31	0:00:15	Equip Fail Insulator	Broken transmission insulator approximately 1 mile north of Cooperstown in the slough.
Shepard	Substation	12	2021-05-24T15:25:10	2021-05-24T15:31:44	0:06:34	Equip Fail Insulator	Broken transmission insulator approximately 1 mile north of Cooperstown in the slough.
Shepard	Substation	11	2021-07-19T13:22:57	2021-07-19T13:23:47	0:00:50	Weather	Storm in the Finley area tripped Pickert 925.
Shepard	Substation	12	2021-07-26T08:52:31	2021-07-26T08:53:17	0:00:46	Equip Fail Insulator	Squirrel made contact in the sub and caused damage to a bus insulator.
Shepard	Substation	12	2021-09-02T19:43:24	2021-09-02T19:43:38	0:00:14	Weather	Rain/lightning in the area.
Shepard	Substation	12	2021-10-05T08:36:26	2021-10-05T08:36:41	0:00:15	Unknown	Investigated but cause unknown. SEL mileage by Sanborn.
Sheyenne	Substation	190	2021-05-14T15:22:38	2021-05-14T15:22:44	0:00:06	Unknown	SEL 6.5 miles from Devils Lake SW 115 breaker 645. Cause unknown.
Sheyenne	Substation	190	2021-06-05T17:31:25	2021-06-05T18:53:36	1:22:11	Equip Fail Pole	Devils Lake Breaker 645 went to lock out due to pole fire north of Oberon approximately 3 miles.
Sheyenne	Substation	190	2021-06-06T08:59:12	2021-06-06T09:01:38	0:02:26	other	Sysop was having trouble getting Devils Lake breaker 615 to hold and the breaker went to lockout.
Sheyenne	Substation	190	2021-06-11T03:37:41	2021-06-11T03:38:11	0:00:30	Weather	Storm in the area.
Sheyenne	Substation	190	2021-08-17T08:10:43	2021-08-17T08:10:50	0:00:07	Unknown	SEL 18.8 miles from Devils Lake SW sub Breaker 645, which would put it around Fort Totten area. Cause unknown.
Sheyenne	Substation	190	2021-08-20T02:15:57	2021-08-20T02:16:59	0:01:02	Weather	Devils Lake breaker 645 and Carrington breaker 515 operated. Lightning in the area.
Sheyenne	Substation	190	2021-09-13T12:39:41	2021-09-13T12:39:47	0:00:06	Weather	SEL 48.6 miles from Devils Lake 645. Lightning & rain in the New Rockford area.
Sheyenne	Substation	190	2021-09-20T19:18:47	2021-09-20T19:18:54	0:00:07	Unknown	No SEL data. Line patrolled but no cause was found.
Sheyenne_GravelPit	Substation	3	2021-01-29T09:33:19	2021-01-29T11:34:30	2:01:11	Planned	AMB audited 2/26/21 - Replaced grasshopper disconnects in the sub.
Sheyenne_GravelPit	Substation	3	2021-03-04T13:51:40	2021-03-04T13:57:07	0:05:27	Planned	Removed 100 amp slugged cutouts.
Sheyenne_GravelPit	Substation	3	2021-05-14T15:22:33	2021-05-14T15:22:40	0:00:07	Unknown	SEL 6.5 miles from Devils Lake SW 115 breaker 645. Cause unknown.
Sheyenne_GravelPit	Substation	3	2021-06-05T17:31:23	2021-06-05T18:53:33	1:22:10	Equip Fail Pole	Devils Lake Breaker 645 went to lock out due to pole fire north of Oberon approximately 3 miles.
Sheyenne_GravelPit	Substation	3	2021-06-06T08:59:08	2021-06-06T09:01:35	0:02:27	other	Sysop was having trouble getting Devils Lake breaker 615 to hold and the breaker went to lockout.
Sheyenne_GravelPit	Substation	3	2021-06-11T03:37:38	2021-06-11T03:38:08	0:00:30	Weather	Storm in the area.
Sheyenne_GravelPit	Substation	3	2021-08-17T08:10:39	2021-08-17T08:10:47	0:00:08	Unknown	SEL 18.8 miles from Devils Lake SW sub Breaker 645, which would put it around Fort Totten area. Cause unknown.
Sheyenne_GravelPit	Substation	3	2021-08-20T02:15:53	2021-08-20T02:16:58	0:01:05	Weather	Devils Lake breaker 645 and Carrington breaker 515 operated. Lightning in the area.
Sheyenne_GravelPit	Substation	3	2021-09-13T12:39:59	2021-09-13T12:40:05	0:00:06	Weather	SEL 48.6 miles from Devils Lake 645. Lightning & rain in the New Rockford area.
Sheyenne_GravelPit	Substation	3	2021-09-20T19:19:04	2021-09-20T19:19:12	0:00:08	Unknown	No SEL data. Line patrolled but no cause was found.

Simcoe	Substation	6	2021-02-16T06:56:03	2021-02-16T07:33:31	0:37:28	other	This was due to the Storms that hit Texas that caused major switching incidence up in our region. No fault of OTP
Simcoe	Substation	6	2021-07-12T05:10:01	2021-07-12T05:10:09	0:00:08	Weather	Rain and high gusts during the morning caused multiple blinks throughout the region
Simcoe	Substation	6	2021-07-12T05:14:47	2021-07-12T05:14:54	0:00:07	Weather	Rain and high gusts during the morning caused multiple blinks throughout the region
Simcoe	Substation	6	2021-08-24T05:21:02	2021-08-24T05:22:06	0:01:04	Weather	no exact cause found, but it was windy and raining during the blink.
Simcoe	Substation	6	2021-09-05T22:45:45	2021-09-06T00:33:31	1:47:46	other	AMB 9/28/21 - SRep found Mylar balloon tangled on one of our pieces of equipment which caused the fault.
Smith_Motors_VFI_FeederSection	FeederSection	2	2021-06-17T07:40:42	2021-06-17T07:40:51	0:00:09	Animal	Bird in a transformer
Souris	Substation	54	2021-04-11T23:21:48	2021-04-11T23:23:23	0:01:35	Equip Fail Pole	Blink caused by the pole that caught fire between Landa and Roth
Souris	Substation	54	2021-04-12T14:01:51	2021-04-12T14:24:02	0:22:11	Planned	SRep could not find reason for outage.
Souris	Substation	54	2021-07-06T13:16:22	2021-07-06T13:24:35	0:08:13	other	Sub tech inadvertently caused outage
Souris	Substation	54	2021-07-07T11:05:10	2021-07-07T11:06:26	0:01:16	other	Sub tech inadvertently caused outage.
Souris	Substation	54	2021-07-18T01:49:23	2021-07-18T01:49:33	0:00:10	Unknown	SRep could not find reason.
Souris	Substation	54	2021-07-20T00:54:01	2021-07-20T00:54:11	0:00:10	Animal	SRep could not find exact cause, but believe it was an animal caused outage.
Souris	Substation	54	2021-07-20T01:16:30	2021-07-20T01:16:38	0:00:08	Animal	SRep could not find exact cause, but believe it was an animal caused outage.
Souris	Substation	54	2021-08-09T17:45:08	2021-08-09T17:45:17	0:00:09	Lightning	storm came through causing Lightning, Hail and rain
Souris	Substation	54	2021-08-16T13:12:45	2021-08-16T13:12:53	0:00:08	Unknown	SRep did not have a reason for the blink. Did not find anything when patrolling.
Souris	Substation	54	2021-09-20T19:47:25	2021-09-20T19:47:37	0:00:12	Equip Fail Fuse unknown cause	Blink caused by blown fuse on same feeder.
Spiritwood	Substation	40	2021-06-29T14:59:24	2021-06-29T15:24:13	0:24:49	other	Attempting to close cutouts to pick up the temporary service to ADM. Too much load on the town recloser so we had drop other load to pick
Spiritwood	Substation	40	2021-06-29T15:47:31	2021-06-29T15:47:45	0:00:14	other	Attempting to close cutouts to pick up the temporary service to ADM. Too much load on the town recloser so we had drop other load to pick
St_Michaels_Mission	Substation	28	2021-02-07T19:13:51	2021-02-07T20:31:07	1:17:16	Equip Fail Conductor	41.6kv phase burned down mid span south of Pekin. McVilleville Breaker communication did not work and McVilleville Motor Operator switch
St_Michaels_Mission	Substation	28	2021-03-23T20:39:40	2021-03-23T20:56:56	0:17:16	Equip Fail Insulator	Broken Insulator on 41.6kv line between Aneta and Finley
St_Michaels_Mission	Substation	28	2021-04-23T10:29:41	2021-04-23T10:29:48	0:00:07	other	Some one lit a grass fire and it burned several 41.6kv poles.
St_Michaels_Mission	Substation	28	2021-05-02T13:11:01	2021-05-02T13:11:08	0:00:07	Unknown	Unknown
St_Michaels_Mission	Substation	28	2021-05-30T12:25:28	2021-05-30T12:25:36	0:00:08	Unknown	Unknown
St_Michaels_Mission	Substation	28	2021-06-11T04:33:39	2021-06-11T04:33:44	0:00:05	Equip Fail Pole	Pole broke on the transmission
St_Michaels_Mission	Substation	28	2021-06-26T17:04:05	2021-06-26T17:04:13	0:00:08	Unknown	Unknown
St_Michaels_Mission	Substation	28	2021-06-27T16:03:14	2021-06-27T16:03:25	0:00:11	Unknown	Unknown
St_Michaels_Mission	Substation	19	2021-07-19T13:18:11	2021-07-19T13:18:18	0:00:07	Weather	Weather moved through the area. Lots of Momentaries - Lightning
St_Michaels_Mission	Substation	28	2021-07-19T13:23:08	2021-07-19T13:23:54	0:00:46	Weather	Weather moved through the area. Lots of Lightning
St_Michaels_Mission	Substation	28	2021-07-19T20:37:38	2021-07-19T20:37:48	0:00:10	Weather	Weather moved through the area. Lots of Lightning

St_Michaels_Mission	Substation	28	2021-08-09T13:08:00	2021-08-09T14:32:49	1:24:49	Weather	Severe storm moved through the area
St_Michaels_Mission	Substation	28	2021-08-09T15:36:22	2021-08-09T15:36:29	0:00:07	Weather	Severe storm moved through area
St_Michaels_Mission	Substation	28	2021-08-09T20:23:51	2021-08-09T20:27:46	0:03:55	Vegetation	Tree fell into 41.6kv line due to severe storm
St_Michaels_Mission	Substation	28	2021-08-09T21:06:44	2021-08-09T21:06:51	0:00:07	Vegetation	Severe storm moved through causing tree to fall into 41.6kv line
St_Michaels_Mission	Substation	28	2021-08-20T08:05:06	2021-08-20T08:05:14	0:00:08	Unknown	Unknown
St_Michaels_Mission	Substation	28	2021-08-31T16:14:05	2021-08-31T16:14:11	0:00:06	Unknown	Unknown
St_Michaels_Mission	Substation	28	2021-09-20T17:06:17	2021-09-20T17:07:23	0:01:06	Unknown	Unknown
St_Michaels_Mission	Substation	28	2021-12-31T08:51:55	2021-12-31T09:11:26	0:19:31	Equip Fail Conductor	Broken splice on conductor
St_Thomas	Substation	234	2021-02-02T14:51:22	2021-02-02T14:51:59	0:00:37		
St_Thomas	Substation	233	2021-06-25T22:50:14	2021-06-25T22:50:34	0:00:20		
St_Thomas	Substation	234	2021-06-26T16:11:32	2021-06-26T16:12:36	0:01:04		
St_Thomas	Substation	234	2021-07-19T11:16:44	2021-07-19T11:17:07	0:00:23		
St_Thomas	Substation	233	2021-08-03T01:06:21	2021-08-03T01:06:43	0:00:22		
St_Thomas	Substation	233	2021-08-27T11:52:44	2021-08-27T11:53:05	0:00:21		
St_Thomas	Substation	234	2021-09-01T07:16:09	2021-09-01T07:17:16	0:01:07		
St_Thomas_SouthEastFeeder	Feeder	97	2021-02-02T14:51:23	2021-02-02T14:51:56	0:00:33		
St_Thomas_SouthEastFeeder	Feeder	80	2021-06-25T22:50:18	2021-06-25T22:50:37	0:00:19		
St_Thomas_SouthEastFeeder	Feeder	77	2021-06-26T16:11:36	2021-06-26T16:11:53	0:00:17		
St_Thomas_SouthEastFeeder	Feeder	97	2021-07-19T11:16:44	2021-07-19T11:17:04	0:00:20		
St_Thomas_SouthEastFeeder	Feeder	79	2021-08-03T01:06:26	2021-08-03T01:06:47	0:00:21		
St_Thomas_SouthEastFeeder	Feeder	97	2021-08-27T11:52:44	2021-08-27T11:53:01	0:00:17		
St_Thomas_SouthEastFeeder	Feeder	73	2021-09-01T07:16:10	2021-09-01T07:16:26	0:00:16		
Starkweather	Substation	137	2021-04-13T13:07:25	2021-04-13T14:14:42	1:07:17	Unknown	AMB audited 5/25/21 - Unknown cause
Streeter	Substation	236	2021-02-01T13:56:29	2021-02-01T13:56:42	0:00:13	Weather	Heavy frost on the conductors caused momentary and sustained outages when the wind blew..
Streeter	Substation	236	2021-02-01T15:03:13	2021-02-01T15:03:25	0:00:12	Weather	Heavy frost on the conductors caused momentary and sustained outages when the wind blew..
Streeter	Substation	236	2021-02-02T07:26:51	2021-02-02T07:27:03	0:00:12	Equip Fail Conductor	Heavy frost on the conductors broke a CPEC line in the Gackle area.
Streeter	Substation	382	2021-02-02T19:02:31	2021-02-02T19:18:31	0:16:00	Weather	Heavy frost on the conductors caused momentary and sustained outages when the wind blew..
Streeter	Substation	236	2021-02-03T00:27:09	2021-02-03T00:29:09	0:02:00	Weather	Heavy frost on the conductors caused momentary and sustained outages when the wind blew..
Streeter	Substation	236	2021-02-03T00:32:29	2021-02-03T00:32:50	0:00:21	Weather	Heavy frost on the conductors caused momentary and sustained outages when the wind blew..

Streeter	Substation	236	2021-02-03T07:34:14	2021-02-03T07:34:29	0:00:15	Weather	Heavy frost on the conductors caused momentary and sustained outages when the wind blew..
Streeter	Substation	236	2021-02-03T08:38:33	2021-02-03T08:38:48	0:00:15	Weather	Heavy frost on the conductors caused momentary and sustained outages when the wind blew..
Streeter	Substation	236	2021-02-03T11:03:24	2021-02-03T11:03:41	0:00:17	Weather	Heavy frost on the conductors caused momentary and sustained outages when the wind blew..
Streeter	Substation	236	2021-02-03T12:31:21	2021-02-03T12:43:39	0:12:18	Weather	Heavy frost on the conductors caused momentary and sustained outages when the wind blew..
Streeter	Substation	236	2021-02-03T15:56:11	2021-02-03T16:51:32	0:55:21	Weather	Heavy frost on the conductors caused momentary and sustained outages when the wind blew..
Streeter	Substation	236	2021-02-03T16:52:24	2021-02-03T16:56:36	0:04:12	Weather	Heavy frost on the conductors caused momentary and sustained outages when the wind blew..
Streeter	Substation	236	2021-02-03T17:31:47	2021-02-03T17:40:53	0:09:06	Weather	Heavy frost on the conductors caused momentary and sustained outages when the wind blew..
Streeter	Substation	236	2021-02-03T17:51:28	2021-02-03T17:51:48	0:00:20	Weather	Heavy frost on the conductors caused momentary and sustained outages when the wind blew..
Streeter	Substation	236	2021-02-03T21:00:14	2021-02-03T21:00:31	0:00:17	Weather	Heavy frost on the conductors caused momentary and sustained outages when the wind blew..
Streeter	Substation	236	2021-02-03T21:12:20	2021-02-03T21:12:37	0:00:17	Weather	Heavy frost on the conductors caused momentary and sustained outages when the wind blew..
Streeter	Substation	236	2021-02-04T00:05:08	2021-02-04T00:05:27	0:00:19	Weather	Heavy frost on the conductors caused momentary and sustained outages when the wind blew..
Streeter	Substation	236	2021-02-04T00:18:33	2021-02-04T00:18:52	0:00:19	Weather	Heavy frost on the conductors caused momentary and sustained outages when the wind blew..
Streeter	Substation	236	2021-02-04T00:35:36	2021-02-04T00:36:21	0:00:45	Weather	Heavy frost on the conductors caused momentary and sustained outages when the wind blew..
Streeter	Substation	236	2021-02-04T00:41:54	2021-02-04T00:42:55	0:01:01	Weather	Heavy frost on the conductors caused momentary and sustained outages when the wind blew..
Streeter	Substation	472	2021-02-04T00:44:01	2021-02-04T00:45:02	0:01:01	Weather	Heavy frost on the conductors caused momentary and sustained outages when the wind blew..
Streeter	Substation	472	2021-02-04T00:45:38	2021-02-04T00:49:02	0:03:24	Weather	Heavy frost on the conductors caused momentary and sustained outages when the wind blew..
Streeter	Substation	236	2021-02-04T00:49:32	2021-02-04T00:52:19	0:02:47	Weather	Heavy frost on the conductors caused momentary and sustained outages when the wind blew..
Streeter	Substation	236	2021-02-04T00:55:11	2021-02-04T00:55:31	0:00:20	Weather	Heavy frost on the conductors caused momentary and sustained outages when the wind blew..
Streeter	Substation	236	2021-02-04T01:06:34	2021-02-04T01:06:53	0:00:19	Weather	Heavy frost on the conductors caused momentary and sustained outages when the wind blew..
Streeter	Substation	236	2021-02-04T01:22:25	2021-02-04T01:22:44	0:00:19	Weather	Heavy frost on the conductors caused momentary and sustained outages when the wind blew..
Streeter	Substation	236	2021-05-19T22:37:37	2021-05-19T22:46:33	0:08:56	Equip Fail Conductor	Broken center phase mid span on transmission line approximately 1.25 miles west of Windsor I-94 exit.
Streeter	Substation	236	2021-05-19T23:14:56	2021-05-19T23:15:14	0:00:18	Equip Fail Conductor	Broken center phase mid span on transmission line approximately 1.25 miles west of Windsor I-94 exit.
Streeter	Substation	236	2021-06-04T20:09:08	2021-06-04T20:09:26	0:00:18	Weather	Storm in the area.
Streeter	Substation	90	2021-06-07T18:48:18	2021-06-07T18:48:26	0:00:08	Weather	Storm in the area.
Streeter	Substation	154	2021-06-07T18:48:29	2021-06-07T18:48:37	0:00:08	Weather	Storm in the area.
Streeter	Substation	236	2021-06-08T01:46:46	2021-06-08T01:47:07	0:00:21	Weather	Storm in the area.
Streeter	Substation	236	2021-06-08T09:29:45	2021-06-08T09:30:02	0:00:17	Weather	Storm in the area.
Streeter	Substation	89	2021-07-29T18:58:26	2021-07-29T18:58:30	0:00:04	Unknown	Unknown and not investigated.
Streeter	Substation	236	2021-09-25T09:54:59	2021-09-25T09:55:15	0:00:16	Unknown	Unknown and not investigated. No SEL data.

Surrey	Substation	543	2021-02-16T06:56:03	2021-02-16T07:02:15	0:06:12	other	This was due to the Storms that hit Texas that caused major switching incidence up in our region. No fault of OTP
Surrey	Substation	365	2021-07-12T05:09:51	2021-07-12T05:10:00	0:00:09	Weather	Rain and high gusts during the morning caused multiple blinks throughout the region
Surrey	Substation	180	2021-07-12T05:10:00	2021-07-12T05:10:04	0:00:04	Weather	Rain and high gusts during the morning caused multiple blinks throughout the region
Surrey	Substation	543	2021-07-12T05:14:35	2021-07-12T05:14:49	0:00:14	Weather	Rain and high gusts during the morning caused multiple blinks throughout the region
Surrey	Substation	543	2021-08-24T05:21:11	2021-08-24T05:21:26	0:00:15	Weather	no exact cause found, but it was windy and raining during the blink.
Surrey	Substation	543	2021-09-05T22:45:33	2021-09-06T01:50:58	3:05:25	other	AMB 9/28/21 - SRep found Mylar balloon tangled on one of our pieces of equipment which caused the fault.
SW_Farmline_FeederSection	FeederSection	18	2021-04-23T00:33:43	2021-04-23T00:34:03	0:00:20	Equip Fail Arrester	Arrestor at a cap bank burnt up in South Wahpeton
SW_Farmline_FeederSection	FeederSection	18	2021-04-23T00:46:00	2021-04-23T00:46:17	0:00:17	Equip Fail Arrester	Arrestor at a cap bank burnt up in South Wahpeton
SW_Farmline_FeederSection	FeederSection	18	2021-04-23T00:55:56	2021-04-23T00:56:03	0:00:07	Equip Fail Arrester	Arrestor at a cap bank burnt up in South Wahpeton
SW_Farmline_FeederSection	FeederSection	18	2021-04-23T01:16:27	2021-04-23T01:16:45	0:00:18	Equip Fail Arrester	Had arrestor on a cap bank in South Wahpeton burn up.
SW_Farmline_FeederSection	FeederSection	18	2021-04-23T01:31:18	2021-04-23T01:31:36	0:00:18	Equip Fail Arrester	Had arrestor on a cap bank in South Wahpeton burn up.
SW_Farmline_FeederSection	FeederSection	18	2021-06-11T05:16:20	2021-06-11T05:16:46	0:00:26	Vegetation	Rain storm and lots of burning trees on feeders
SW_Farmline_FeederSection	FeederSection	18	2021-07-24T00:25:10	2021-07-24T00:25:18	0:00:08	Weather	Strong thunder storms in the whole area, had to isolate and restore by areas. Christine sub had damage so it took longer to restore that town.
SW_Farmline_FeederSection	FeederSection	18	2021-07-24T00:31:54	2021-07-24T00:31:59	0:00:05	Weather	Strong thunder storms in the whole area, had to isolate and restore by areas. Christine sub had damage so it took longer to restore that town.
SW_Farmline_FeederSection	FeederSection	1	2021-08-26T11:22:24	2021-08-26T11:22:31	0:00:07	Weather	Strong storms with lightning and strong winds caused numerous outages.
SW_Farmline_FeederSection	FeederSection	1	2021-08-26T15:33:46	2021-08-26T15:33:52	0:00:06	Weather	Strong storms with lightning and strong winds caused numerous outages.
SW_Farmline_FeederSection	FeederSection	18	2021-08-26T15:34:06	2021-08-26T15:34:12	0:00:06	Weather	Strong storms with lightning and strong winds caused numerous outages.
Sweetwater	Substation	4	2021-06-06T03:21:54	2021-06-06T10:43:15	7:21:21	Weather	AMB audited 6/28/21 - Severe storm moved through breaking poles, cross arms, and insulators.
Sweetwater	Substation	4	2021-08-09T19:35:55	2021-08-09T19:36:06	0:00:11	Weather	Severe Storm system with rotation moved through the area.
Sweetwater	Substation	4	2021-09-29T18:35:30	2021-09-29T18:35:36	0:00:06	Unknown	Unknown
Sweetwater	Substation	4	2021-09-30T14:49:52	2021-09-30T14:49:59	0:00:07	Unknown	Unknown
Sweetwater	Substation	4	2021-12-28T07:58:35	2021-12-28T07:58:45	0:00:10	Unknown	Unknown - winter storm in area.
Sykeston	Substation	146	2021-02-02T15:47:18	2021-02-02T15:47:37	0:00:19	Weather	Heavy frost on the conductors caused momentary and sustained outages when the wind blew..
Sykeston	Substation	146	2021-02-22T15:24:24	2021-02-22T16:13:25	0:49:01	Equip Fail Pole	Burned pole due to an insulator tracking 1.5 miles east of Sykeston.
Sykeston	Substation	146	2021-06-29T07:58:33	2021-06-29T10:55:26	2:56:53	Planned	AMB audited 8/2/21 - House move.
Sykeston	Substation	146	2021-10-27T15:20:16	2021-10-27T15:20:20	0:00:04	Bird	SEL. 3.1 miles from Carrington. Bird got between phase and grounded pole top bracket.
Sykeston	Substation	146	2021-10-27T17:46:27	2021-10-27T17:46:34	0:00:07	Unknown	Patrolled line but no interruption cause found. Suspect bird activity.
Tower_City	Substation	196	2021-03-25T14:41:35	2021-03-25T14:42:33	0:00:58	Equip Fail Pole	Transmission pole sheered off by the ice on Sanborn Lake along old Hwy 10, east of Hwy 1.
Tower_City	Substation	196	2021-08-24T01:54:21	2021-08-24T01:54:28	0:00:07	Weather	Storm in the area.

Tower_City	Substation	196	2021-10-04T15:37:06	2021-10-04T15:37:34	0:00:28	Unknown	Investigated, cause unknown. SEL mileage south of Buffalo. A lot of hawk activity as crops are being harvested.
Tower_City	Substation	196	2021-12-09T23:04:57	2021-12-10T01:48:08	2:43:11	Equip Fail Substation	SEL 12.8 miles from Buffalo 345 kv sub breaker 745. Found failed PT on the 41.6 kv bay in the sub.
Tower_City	Substation	196	2021-12-15T12:29:54	2021-12-15T15:04:13	2:34:19	Equip Fail Arrester	Blown arrester caused high side cutout to crack in the Tower City Sub.
Turtle_Lake	Substation	205	2021-04-04T20:46:54	2021-04-04T20:47:26	0:00:32	Unknown	SRep in the area could not find anything to directly cause blink.
Turtle_Lake	Substation	205	2021-04-16T22:42:34	2021-04-16T22:42:44	0:00:10	Bird	SRep believes a bird caused the blink
Turtle_Lake	Substation	205	2021-05-22T01:22:01	2021-05-22T01:22:07	0:00:06	Weather	Storm rolled through the area during the night and into the day. SReps couldn't find any specific issues.
Turtle_Lake	Substation	205	2021-06-06T03:04:04	2021-06-06T03:04:13	0:00:09	Weather	Storms were moving across north and central ND causing blinks
Turtle_Lake	Substation	205	2021-07-09T00:19:04	2021-07-09T00:24:12	0:05:08	other	Central Power had as issue in their substation which feeds ours - this was a Central Power issue not ours.
Turtle_Lake	Substation	205	2021-07-09T00:51:14	2021-07-09T03:56:22	3:05:08	other	AMB audit 7/29/21 - Per Nick: Central Power had an issue in their substation which feeds ours - this was a Central Power issues not us.
Turtle_Lake	Substation	205	2021-11-16T22:33:19	2021-11-16T22:33:26	0:00:07		
Turtle_Lake	Substation	205	2021-11-17T09:43:43	2021-11-17T10:34:56	0:51:13	Weather	High winds caused a phase on the distribution in town to break and fall. this has been repaired.
Tuttle	Substation	139	2021-02-02T01:42:28	2021-02-02T03:52:24	2:09:56	Equip Fail Pole	AMB audited 3/1/21 - insulator and Xarm on different poles broke on the same stretch of line causing line to gallop and ground out.
Tuttle	Substation	139	2021-02-03T15:51:21	2021-02-03T15:51:48	0:00:27	Unknown	SRep could not find an exact cause of blink
Tuttle	Substation	139	2021-05-22T00:19:46	2021-05-22T00:19:53	0:00:07	Weather	Storm rolled through the area during the night and into the day. SReps couldn't find any specific issues.
Tuttle	Substation	139	2021-06-08T21:52:04	2021-06-08T22:04:18	0:12:14	Weather	Lightning storm passed through the area causing multiple area's to have a blink.
Tuttle	Substation	139	2021-07-05T23:16:26	2021-07-05T23:31:00	0:14:34	Equip Fail Pole	Pole fire caused outage. was fixed on the 7th of the month
Tuttle	Substation	139	2021-07-16T11:34:16	2021-07-16T11:34:25	0:00:09	Unknown	Momentary blink throughout the area. Unknown cause as of now.
Tuttle	Substation	139	2021-07-16T11:37:09	2021-07-16T11:37:18	0:00:09	Unknown	Momentary blink throughout the area. Unknown cause as of now.
Tuttle	Substation	138	2021-09-29T12:56:46	2021-09-29T13:03:54	0:07:08	Lightning	2 poles struck by lightning on the 41.6kv. Poles have been changed out and should be good now.
Tyler	Substation	39	2021-06-30T06:26:16	2021-06-30T06:58:58	0:32:42	Equip Fail Substation	Outage caused by problem at Dome Substation near Wheaton MN not an OTP issue
Tyler	Substation	39	2021-07-19T19:56:52	2021-07-19T19:57:18	0:00:26	Weather	Small thunder storm in the area with a lightning strike opened breakers.
Tyler	Substation	39	2021-07-24T00:24:59	2021-07-24T00:25:22	0:00:23	Weather	Strong thunder storms in the whole area, had to isolate and restore by areas. Christine sub had damage so it took longer to restore that town.
Tyler	Substation	39	2021-07-25T12:04:09	2021-07-25T12:47:55	0:43:46	Equip Fail Pole	2 rotten poles on 115 South of Dumont fell over sometime after Friday storm and they finally tripped the system as line was approx. 18 inches
Tyler	Substation	39	2021-07-26T02:31:35	2021-07-26T02:32:45	0:01:10	Unknown	We patrolled and could not find anything the SEL was the same area as the 2 broken poles.
Urbana	Substation	10	2021-02-03T06:56:55	2021-02-03T06:57:08	0:00:13	Weather	Heavy frost on the conductors caused momentary and sustained outages when the wind blew..
Urbana	Substation	10	2021-06-11T08:52:19	2021-06-11T10:27:26	1:35:07	Weather	Storm in the area.
Urbana	Substation	10	2021-09-03T16:35:18	2021-09-03T16:35:27	0:00:09	Unknown	SEL 9.2 miles from Spiritwood Breaker 415. Cause unknown.
Velva	Substation	838	2021-02-16T06:56:02	2021-02-16T07:33:25	0:37:23	other	This was due to the Storms that hit Texas that caused major switching incidence up in our region. No fault of OTP
Velva	Substation	838	2021-07-12T05:09:47	2021-07-12T05:10:05	0:00:18	Weather	Rain and high gusts during the morning caused multiple blinks throughout the region

Velva	Substation	838	2021-07-12T05:14:32	2021-07-12T05:14:50	0:00:18	Weather	Rain and high gusts during the morning caused multiple blinks throughout the region
Velva	Substation	838	2021-08-24T05:21:09	2021-08-24T05:21:27	0:00:18	Weather	no exact cause found, but it was windy and raining during the blink.
Velva	Substation	838	2021-09-05T22:45:30	2021-09-05T23:37:24	0:51:54	other	AMB 9/28/21 - SRep found Mylar balloon tangled on one of our pieces of equipment which caused the fault.
Velva	Substation	838	2021-09-06T01:31:44	2021-09-06T02:16:51	0:45:07	Equip Fail Fuse unknown cause	Fuse blew in sub. SRep doesn't know why, but replaced it and it held
Velva_EastFeeder	Feeder	353	2021-12-08T12:51:58	2021-12-08T12:52:07	0:00:09		
Velva_WestFeeder	Feeder	485	2021-04-15T11:52:31	2021-04-15T11:53:37	0:01:06	Equip Fail Underground	Underground fault
Velva_WestFeeder	Feeder	485	2021-04-15T12:27:40	2021-04-15T12:28:45	0:01:05	Equip Fail Underground	Underground fault
Verona	Substation	92	2021-04-11T21:15:56	2021-04-11T21:16:25	0:00:29	Equip Fail Insulator	Insulator failed and tracked causing pole to burn off.
Verona	Substation	92	2021-05-21T06:41:41	2021-05-21T06:41:45	0:00:04	Equip Fail Fuse unknown cause	Blown riser pole fuse caused by lightning at 7365 109th Ave SE, Verona. Only customer out of power.
Verona	Substation	92	2021-05-23T07:20:20	2021-05-23T07:20:28	0:00:08	Unknown	Unknown and not patrolled.
Verona	Substation	92	2021-06-07T21:55:57	2021-06-07T23:24:39	1:28:42	Equip Fail Pole	4 broken poles on the ground between LaMoure and Verona.
Verona	Substation	92	2021-06-11T03:56:15	2021-06-11T03:56:20	0:00:05	Weather	Storm in the area.
Verona	Substation	92	2021-06-11T09:39:00	2021-06-11T10:52:00	1:13:00	Weather	Storm in the area.
Verona	Substation	92	2021-06-14T14:08:25	2021-06-14T14:08:29	0:00:04	Equip Fail Pole	Replaced downed poles due to storm in the area.
Verona	Substation	92	2021-06-16T11:29:38	2021-06-16T11:31:01	0:01:23	Unknown	Unknown and not investigated.
Verona	Substation	92	2021-06-16T11:38:22	2021-06-16T11:39:41	0:01:19	Unknown	Unknown and not investigated.
Verona	Substation	92	2021-08-07T20:25:08	2021-08-07T20:25:14	0:00:06	Weather	Storm in the area.
Verona	Substation	92	2021-08-28T07:45:10	2021-08-28T07:45:17	0:00:07	Weather	Storm in the area.
Verona	Substation	92	2021-10-17T17:51:48	2021-10-17T19:48:31	1:56:43	Equip Fail Conductor	Failed conductor burned down from years of trees in the line.
Verona	Substation	92	2021-11-04T10:10:51	2021-11-04T10:10:57	0:00:06	Unknown	Edgeley 415/465 & Oakes 815/825 operated. SEL 6.6 miles from Edgeley and 40.0 miles from Oakes. Clear day. Cause unknown and UG fault on primary line. working on rebuilding OH.
Victor_NorthFeeder	Feeder	106	2021-01-13T10:58:55	2021-01-13T11:27:09	0:28:14	Equip Fail Underground	
Victor_NorthFeeder	Feeder	106	2021-05-30T09:09:03	2021-05-30T09:09:11	0:00:08	Unknown	Could not find cause after driving the line.
Victor_NorthFeeder	Feeder	106	2021-08-26T09:09:41	2021-08-26T09:58:36	0:48:55	Weather	Strong storms with lightning and strong winds caused numerous outages.
Victor_NorthFeeder	Feeder	106	2021-09-02T05:12:12	2021-09-02T05:12:19	0:00:07	Unknown	Line patrol was done and SEL put it at the switches but we could not find any reason for outage.
Voltaire	Substation	48	2021-02-16T07:34:10	2021-02-16T07:35:38	0:01:28	other	This was due to the Storms that hit Texas that caused major switching incidence up in our region. No fault of OTP
Voltaire	Substation	48	2021-06-08T15:22:28	2021-06-08T15:22:34	0:00:06	Weather	SRep stated a thin line storm with Lightning passed through causing a blink. SRep patrolled after and could not find anything specific.
Voltaire	Substation	48	2021-10-10T11:04:02	2021-10-10T11:04:09	0:00:07	Unknown	SRep patrolled line the next day and could not find anything. Blink has not occurred like this since.
Wabek_Plaza	Substation	221	2021-01-14T03:43:15	2021-01-14T03:43:22	0:00:07	Weather	High wind and moisture caused conductors to gallop and slap together throughout the region
Wabek_Plaza	Substation	221	2021-01-14T04:06:22	2021-01-14T04:06:46	0:00:24	Weather	High wind and moisture caused conductors to gallop and slap together throughout the region

Wabek_Plaza	Substation	221	2021-01-14T04:20:22	2021-01-14T04:20:52	0:00:30	Weather	High wind and moisture caused conductors to gallop and slap together throughout the region
Wabek_Plaza	Substation	221	2021-01-14T04:38:16	2021-01-14T04:38:27	0:00:11	Weather	High wind and moisture caused conductors to gallop and slap together throughout the region
Wabek_Plaza	Substation	221	2021-01-14T05:20:48	2021-01-14T05:20:55	0:00:07	Weather	High wind and moisture caused conductors to gallop and slap together throughout the region
Wabek_Plaza	Substation	221	2021-01-14T05:30:26	2021-01-14T05:30:34	0:00:08	Weather	High wind and moisture caused conductors to gallop and slap together throughout the region
Wabek_Plaza	Substation	221	2021-01-14T05:32:24	2021-01-14T05:32:32	0:00:08	Weather	High wind and moisture caused conductors to gallop and slap together throughout the region
Wabek_Plaza	Substation	221	2021-01-14T05:33:40	2021-01-14T05:34:10	0:00:30	Weather	High wind and moisture caused conductors to gallop and slap together throughout the region
Wabek_Plaza	Substation	221	2021-02-23T04:36:12	2021-02-23T04:44:30	0:08:18	other	WAPA had trouble on their 115 kv line so they switched to CEPEC Mallard sub to supply power to Max CEPEC 115 sub that provides OTP
Wabek_Plaza	Substation	221	2021-06-06T01:37:44	2021-06-06T01:37:51	0:00:07	Weather	Storms were moving across north and central ND causing blinks
Wabek_Plaza	Substation	221	2021-08-04T07:52:23	2021-08-04T07:52:30	0:00:07	Unknown	SRep could not find a reason for blink after patrolling.
Wabek_Plaza	Substation	221	2021-08-09T02:57:11	2021-08-09T02:57:16	0:00:05	Lightning	storm came through causing Lightning, Hail and rain
Wabek_Plaza	Substation	221	2021-09-15T11:42:17	2021-09-15T11:42:22	0:00:05	Unknown	Cause unknown. SRep patrolled the following day and didnt find any direct cause.
Wahpeton_N_115_Bank1	SubstationBank	7	2021-06-07T10:01:05	2021-06-07T10:54:01	0:52:56	Vehicle Accident	Farm sprayer raised into the 230 line near Mooreton ND
Wahpeton_N_115_NEWahpeton_and_WestRural	Feeder	31	2021-06-07T10:01:24	2021-06-07T10:54:07	0:52:43	Vehicle Accident	Farm sprayer raised into the 230 line near Mooreton ND
Wahpeton_N_115_SouthFeeder	Feeder	325	2021-06-07T10:01:06	2021-06-07T10:54:12	0:53:06	Vehicle Accident	Farm sprayer raised into the 230 line near Mooreton ND
Wahpeton_NW_SchoolsFeeder	Feeder	48	2021-07-07T19:55:19	2021-07-07T20:20:46	0:25:27	Equip Fail Underground	UG fault opened the breaker there was only 4 customers out for the duration of outage most customers only saw blink longer outage was
Wahpeton_SE_Bejio_Estates_SE_Wahpeton	Feeder	898	2021-06-11T09:16:43	2021-06-11T09:16:52	0:00:09	Vegetation	Rain storm and lots of burning trees on feeders
Wahpeton_SE_Bejio_Estates_SE_Wahpeton	Feeder	898	2021-07-28T03:36:29	2021-07-28T03:36:39	0:00:10	Weather	Lightning strike between 1st and 2nd Street on the 300 block caused damage to arrester.
Wahpeton_SE_Bejio_Estates_SE_Wahpeton	Feeder	898	2021-09-23T20:27:03	2021-09-23T20:28:03	0:01:00	Equip Fail Underground	UG fault
Wahpeton_SE_SouthwestFeeder	Feeder	391	2021-08-04T14:10:18	2021-08-04T14:11:40	0:01:22	Unknown	We did not get any calls so we do not believe there was an outage.
Wahpeton_SE_SouthwestFeeder	Feeder	391	2021-08-04T14:18:17	2021-08-04T14:20:13	0:01:56	Unknown	We did not get any calls so we do not believe there was an outage.
Walcott	Substation	171	2021-01-15T10:14:26	2021-01-15T10:14:43	0:00:17	Weather	We had heavy frost and some ice along with strong winds and lines were galloping.
Walcott	Substation	172	2021-06-07T22:46:24	2021-06-08T01:52:38	3:06:14	Weather	AMB audited 6/28/21 - Storms traveled through the area with winds heavy rain and lots of lightning.
Walcott	Substation	172	2021-07-11T04:10:20	2021-07-11T04:10:51	0:00:31	Equip Fail Arrester	High Side arrester was blown in Christine Sub. line was patrolled and nothing was found.
Walcott	Substation	172	2021-07-24T00:57:54	2021-07-24T00:58:10	0:00:16	Weather	Strong thunder storms in the whole area, had to isolate and restore by areas. Christine sub had damage so it took longer to restore that town.
Walcott	Substation	172	2021-07-24T01:32:50	2021-07-24T03:08:39	1:35:49	Weather	Strong thunder storms in the whole area, had to isolate and restore by areas. Christine sub had damage so it took longer to restore that town.
Walcott	Substation	172	2021-08-24T02:44:06	2021-08-24T02:44:19	0:00:13	Weather	Thunder storms in the area with a lot of lightning and strong winds.
Walcott	Substation	172	2021-08-24T03:58:41	2021-08-24T03:58:55	0:00:14	Weather	Thunder storms in the area with a lot of lightning and strong winds.
Walcott	Substation	172	2021-09-19T21:21:52	2021-09-19T21:22:06	0:00:14	Equip Fail Insulator	Cracked insulator was allowing tracking to the cross arm.
Walhalla_EastFeeder	Feeder	4	2021-06-05T13:32:20	2021-06-05T13:32:40	0:00:20		

Walhalla_EastFeeder	Feeder	4	2021-06-05T20:03:12	2021-06-05T21:04:11	1:00:59		
Walhalla_EastFeeder	Feeder	4	2021-07-03T16:19:28	2021-07-03T16:23:00	0:03:32		
Walhalla_EastFeeder	Feeder	4	2021-07-03T16:29:12	2021-07-03T16:33:02	0:03:50		
Walhalla_EastFeeder	Feeder	4	2021-09-06T04:01:31	2021-09-06T04:02:00	0:00:29		
Walhalla_EastFeeder	Feeder	4	2021-11-08T17:01:01	2021-11-08T17:21:23	0:20:22	Equip Fail Conductor	Minnkota's transmission line had issues
Walhalla_NorthMainFeeder	Feeder	295	2021-06-04T12:40:20	2021-06-04T13:20:43	0:40:23		
Walhalla_NorthMainFeeder	Feeder	295	2021-06-05T13:32:08	2021-06-05T13:32:26	0:00:18		
Walhalla_NorthMainFeeder	Feeder	295	2021-06-05T20:02:58	2021-06-05T21:03:57	1:00:59		
Walhalla_NorthMainFeeder	Feeder	295	2021-07-03T16:19:14	2021-07-03T16:22:46	0:03:32		
Walhalla_NorthMainFeeder	Feeder	295	2021-07-03T16:28:57	2021-07-03T16:32:48	0:03:51		
Walhalla_NorthMainFeeder	Feeder	295	2021-09-06T04:01:24	2021-09-06T04:01:41	0:00:17		
Walhalla_NorthMainFeeder	Feeder	295	2021-11-08T17:01:01	2021-11-08T17:21:06	0:20:05	Equip Fail Conductor	Minnkota's transmission line had issues
Walum_Jct	Substation	113	2021-01-30T03:16:06	2021-01-30T03:57:02	0:40:56	Equip Fail Pole	Transmission pole top broke off. Pole had been damaged by lightning years earlier.
Walum_Jct	Substation	113	2021-02-02T20:17:54	2021-02-02T20:18:07	0:00:13	Weather	Heavy frost on the conductors caused momentary and sustained outages when the wind blew..
Walum_Jct	Substation	113	2021-02-03T20:19:28	2021-02-03T20:19:48	0:00:20	Weather	Heavy frost on the conductors caused momentary and sustained outages when the wind blew..
Walum_Jct	Substation	113	2021-02-03T21:45:24	2021-02-03T21:45:43	0:00:19	Weather	Heavy frost on the conductors caused momentary and sustained outages when the wind blew..
Walum_Jct	Substation	113	2021-02-03T22:24:24	2021-02-03T22:24:43	0:00:19	Weather	Heavy frost on the conductors caused momentary and sustained outages when the wind blew..
Walum_Jct	Substation	113	2021-02-03T23:46:27	2021-02-03T23:46:47	0:00:20	Weather	Heavy frost on the conductors caused momentary and sustained outages when the wind blew..
Walum_Jct	Substation	113	2021-02-04T00:32:22	2021-02-04T00:33:19	0:00:57	Weather	Heavy frost on the conductors caused momentary and sustained outages when the wind blew..
Walum_Jct	Substation	113	2021-02-04T00:36:30	2021-02-04T00:36:43	0:00:13	Weather	Heavy frost on the conductors caused momentary and sustained outages when the wind blew..
Walum_Jct	Substation	113	2021-02-05T14:24:32	2021-02-05T14:25:47	0:01:15	Planned	Outage needed to switch transmission line. A failed insulator needed to be replaced between Hannaford and Walum.
Walum_Jct	Substation	113	2021-04-14T21:53:06	2021-04-14T21:53:15	0:00:09	Unknown	Interruption put location closer to Cooperstown. Line patrolled. Nothing found.
Walum_Jct	Substation	113	2021-05-02T13:11:03	2021-05-02T13:11:20	0:00:17	Unknown	SEL is 2.5 miles north of Sanborn. Patrolled but cause not known.
Walum_Jct	Substation	113	2021-05-19T19:27:24	2021-05-19T19:27:54	0:00:30	Weather	Thunderstorms and lightning in the area.
Walum_Jct	Substation	113	2021-05-24T15:24:25	2021-05-24T15:24:31	0:00:06	Equip Fail Insulator	Broken transmission insulator approximately 1 mile north of Cooperstown in the slough.
Walum_Jct	Substation	113	2021-05-24T15:25:17	2021-05-24T15:31:44	0:06:27	Equip Fail Insulator	Broken transmission insulator approximately 1 mile north of Cooperstown in the slough.
Walum_Jct	Substation	113	2021-07-19T13:23:02	2021-07-19T13:23:47	0:00:45	Weather	Storm in the Finley area tripped Pickert 925.
Walum_Jct	Substation	113	2021-07-26T08:52:38	2021-07-26T08:53:38	0:01:00	Equip Fail Insulator	Squirrel made contact in the sub and caused damage to a bus insulator.
Walum_Jct	Substation	113	2021-09-02T19:43:14	2021-09-02T19:43:18	0:00:04	Weather	Rain/lightning in the area.

Walum_Jct	Substation	113	2021-10-05T08:36:38	2021-10-05T08:36:45	0:00:07	Unknown	Investigated but cause unknown. SEL mileage by Sanborn.
Walum_Jct	Substation	113	2021-11-17T05:02:14	2021-11-17T07:03:42	2:01:28	Unknown	AMB audit 11/30/21 - Strong winds. Patrolled line, cause unknown.
Walum_Jct	Substation	113	2021-11-17T07:40:54	2021-11-17T07:43:21	0:02:27	Unknown	Strong winds. Patrolled line, cause unknown.
Walum_Karnak_Sibley_Luverne	Substation	113	2021-01-30T03:16:06	2021-01-30T03:57:06	0:41:00	Equip Fail Pole	Transmission pole top broke off. Pole had been damaged by lightning years earlier.
Walum_Karnak_Sibley_Luverne	Substation	113	2021-02-02T20:17:54	2021-02-02T20:18:13	0:00:19	Weather	Heavy frost on the conductors caused momentary and sustained outages when the wind blew..
Walum_Karnak_Sibley_Luverne	Substation	113	2021-02-03T20:19:28	2021-02-03T20:19:52	0:00:24	Weather	Heavy frost on the conductors caused momentary and sustained outages when the wind blew..
Walum_Karnak_Sibley_Luverne	Substation	113	2021-02-03T21:45:24	2021-02-03T21:45:48	0:00:24	Weather	Heavy frost on the conductors caused momentary and sustained outages when the wind blew..
Walum_Karnak_Sibley_Luverne	Substation	113	2021-02-03T22:24:24	2021-02-03T22:24:48	0:00:24	Weather	Heavy frost on the conductors caused momentary and sustained outages when the wind blew..
Walum_Karnak_Sibley_Luverne	Substation	113	2021-02-03T23:46:26	2021-02-03T23:46:35	0:00:09	Weather	Heavy frost on the conductors caused momentary and sustained outages when the wind blew..
Walum_Karnak_Sibley_Luverne	Substation	113	2021-02-04T00:32:21	2021-02-04T00:33:05	0:00:44	Weather	Heavy frost on the conductors caused momentary and sustained outages when the wind blew..
Walum_Karnak_Sibley_Luverne	Substation	113	2021-02-04T00:36:16	2021-02-04T00:36:29	0:00:13	Weather	Heavy frost on the conductors caused momentary and sustained outages when the wind blew..
Walum_Karnak_Sibley_Luverne	Substation	113	2021-02-05T14:24:24	2021-02-05T14:25:33	0:01:09	Planned	Outage needed to switch transmission line. A failed insulator needed to be replaced between Hannaford and Walum.
Walum_Karnak_Sibley_Luverne	Substation	113	2021-04-14T21:52:54	2021-04-14T21:54:01	0:01:07	Unknown	Interruption put location closer to Cooperstown. Line patrolled. Nothing found.
Walum_Karnak_Sibley_Luverne	Substation	113	2021-05-02T13:11:03	2021-05-02T13:11:23	0:00:20	Unknown	SEL is 2.5 miles north of Sanborn. Patrolled but cause not known.
Walum_Karnak_Sibley_Luverne	Substation	113	2021-05-19T19:27:29	2021-05-19T19:27:58	0:00:29	Weather	Thunderstorms and lightning in the area.
Walum_Karnak_Sibley_Luverne	Substation	113	2021-05-24T15:24:29	2021-05-24T15:24:36	0:00:07	Equip Fail Insulator	Broken transmission insulator approximately 1 mile north of Cooperstown in the slough.
Walum_Karnak_Sibley_Luverne	Substation	113	2021-05-24T15:25:22	2021-05-24T15:31:49	0:06:27	Equip Fail Insulator	Broken transmission insulator approximately 1 mile north of Cooperstown in the slough.
Walum_Karnak_Sibley_Luverne	Substation	113	2021-07-19T13:23:07	2021-07-19T13:23:52	0:00:45	Weather	Storm in the Finley area tripped Pickert 925.
Walum_Karnak_Sibley_Luverne	Substation	113	2021-07-26T08:52:39	2021-07-26T08:52:47	0:00:08	Equip Fail Insulator	Squirrel made contact in the sub and caused damage to a bus insulator.
Walum_Karnak_Sibley_Luverne	Substation	113	2021-08-05T09:51:12	2021-08-05T09:51:17	0:00:05	Unknown	Unknown and not investigated.
Walum_Karnak_Sibley_Luverne	Substation	113	2021-09-02T19:43:16	2021-09-02T19:43:22	0:00:06	Weather	Rain/lightning in the area.
Walum_Karnak_Sibley_Luverne	Substation	113	2021-10-05T08:36:26	2021-10-05T08:36:32	0:00:06	Unknown	Investigated but cause unknown. SEL mileage by Sanborn.
Walum_Karnak_Sibley_Luverne	Substation	113	2021-11-17T05:02:21	2021-11-17T07:43:27	2:41:06	Unknown	AMB audit 11/30/21 - Strong winds. Patrolled line, cause unknown.
Warwick	Substation	70	2021-02-07T19:13:55	2021-02-07T20:31:07	1:17:12	Equip Fail Conductor	41.6kv phase burned down mid span south of Pekin. McVile Breaker communication did not work and McVile Jct Motor Operator switch
Warwick	Substation	70	2021-03-13T18:11:19	2021-03-13T21:37:00	3:25:41	other	AMB audited 3/30/21 - Farmers burning slough burnt poles off feeding town.
Warwick	Substation	70	2021-03-23T20:39:40	2021-03-23T20:56:54	0:17:14	Equip Fail Insulator	Broken Insulator on 41.6kv line between Aneta and Finley
Warwick	Substation	70	2021-04-23T10:29:41	2021-04-23T10:29:47	0:00:06	other	Some one lit a grass fire and it burned several 41.6kv poles.
Warwick	Substation	70	2021-05-02T13:10:58	2021-05-02T13:11:07	0:00:09	Unknown	Unknown
Warwick	Substation	70	2021-05-30T12:25:29	2021-05-30T12:25:34	0:00:05	Unknown	Unknown

Warwick	Substation	70	2021-06-11T04:33:36	2021-06-11T04:33:42	0:00:06	Equip Fail Pole	Pole Broke in Severe Storm with High winds
Warwick	Substation	70	2021-06-26T17:04:01	2021-06-26T17:04:13	0:00:12	Unknown	Unknown
Warwick	Substation	70	2021-06-27T16:03:14	2021-06-27T16:03:24	0:00:10	Unknown	Unknown
Warwick	Substation	70	2021-07-01T23:50:48	2021-07-01T23:59:19	0:08:31	other	Trailer House Fire - Rep open breaker to allow fire department to put the fire out. Primary was to close to the fire.
Warwick	Substation	70	2021-07-02T02:33:07	2021-07-02T04:00:37	1:27:30	other	Trailer House Fire - Rep open breaker to allow fire department to put the fire out. Primary was to close to the fire.
Warwick	Substation	70	2021-07-12T14:04:21	2021-07-12T14:06:07	0:01:46	Unknown	Unknown
Warwick	Substation	70	2021-07-12T14:12:34	2021-07-12T14:14:23	0:01:49	Unknown	Unknown
Warwick	Substation	70	2021-07-19T13:18:12	2021-07-19T13:18:19	0:00:07	Weather	Weather moved through the area. Lots of Lightning
Warwick	Substation	70	2021-07-19T13:23:09	2021-07-19T13:23:55	0:00:46	Weather	Weather moved through the area. Lots of Lightning
Warwick	Substation	70	2021-07-19T20:37:41	2021-07-19T20:37:49	0:00:08	Weather	Weather moved through the area. Lots of Lightning
Warwick	Substation	70	2021-08-09T13:08:01	2021-08-09T14:32:50	1:24:49	Weather	Severe storm moved through the area
Warwick	Substation	70	2021-08-09T15:36:24	2021-08-09T15:36:31	0:00:07	Weather	Severe storm moved through area
Warwick	Substation	70	2021-08-09T20:23:53	2021-08-09T20:27:47	0:03:54	Vegetation	Tree fell into 41.6kv line due to severe storm
Warwick	Substation	70	2021-08-09T21:06:46	2021-08-09T21:06:52	0:00:06	Vegetation	Severe storm moved through causing tree to fall into 41.6kv line
Warwick	Substation	70	2021-08-20T08:05:09	2021-08-20T08:05:15	0:00:06	Unknown	Unknown
Warwick	Substation	70	2021-08-31T16:14:04	2021-08-31T16:14:11	0:00:07	Unknown	Unknown
Warwick	Substation	70	2021-09-20T17:06:34	2021-09-20T17:06:41	0:00:07	Unknown	Unknown
Warwick	Substation	70	2021-12-31T08:51:54	2021-12-31T09:11:26	0:19:32	Equip Fail Conductor	Broken splice on conductor
Warwick_Wells	Substation	2	2021-02-07T19:13:46	2021-02-07T19:14:14	0:00:28	Equip Fail Conductor	41.6kv phase burned down mid span south of Pekin. McVilleville Breaker communication did not work and McVilleville Jct Motor Operator switch
Warwick_Wells	Substation	2	2021-02-07T19:15:06	2021-02-07T19:17:19	0:02:13	Equip Fail Conductor	41.6kv phase burned down mid span south of Pekin. McVilleville Breaker communication did not work and McVilleville Jct Motor Operator switch
Warwick_Wells	Substation	2	2021-03-23T20:39:47	2021-03-23T20:57:01	0:17:14	Equip Fail Insulator	Broken Insulator on 41.6kv line between Aneta and Finley
Warwick_Wells	Substation	2	2021-03-30T17:42:48	2021-03-30T20:52:59	3:10:11	other	AMB audited 4/28/21 - High Winds and Grass fire burnt off two Transmission poles with underbuild on it.
Warwick_Wells	Substation	2	2021-04-23T10:29:41	2021-04-23T10:29:56	0:00:15	other	Some one lit a grass fire and it burned several 41.6kv poles.
Warwick_Wells	Substation	2	2021-05-02T13:11:03	2021-05-02T13:11:16	0:00:13	Unknown	Unknown
Warwick_Wells	Substation	2	2021-05-30T12:25:16	2021-05-30T12:25:25	0:00:09	Unknown	Unknown
Warwick_Wells	Substation	2	2021-06-11T04:33:28	2021-06-11T04:33:32	0:00:04	Equip Fail Pole	Pole Broke in Severe Storm with High winds
Warwick_Wells	Substation	2	2021-06-26T17:03:59	2021-06-26T17:04:03	0:00:04	Unknown	Unknown
Warwick_Wells	Substation	2	2021-06-27T16:03:08	2021-06-27T16:03:14	0:00:06	Unknown	Unknown
Warwick_Wells	Substation	2	2021-07-19T13:22:59	2021-07-19T13:23:44	0:00:45	Weather	Weather moved through the area. Lots of Lightning

Warwick_Wells	Substation	2	2021-07-19T20:37:28	2021-07-19T20:37:38	0:00:10	Weather	Weather moved through the area. Lots of Lightning
Warwick_Wells	Substation	2	2021-08-09T13:07:50	2021-08-09T14:32:39	1:24:49	Weather	Severe storm moved through the area
Warwick_Wells	Substation	2	2021-08-09T15:36:13	2021-08-09T15:36:19	0:00:06	Weather	Severe storm moved through area
Warwick_Wells	Substation	2	2021-08-09T20:23:42	2021-08-09T20:27:36	0:03:54	Vegetation	Tree fell into 41.6kv line due to severe storm
Warwick_Wells	Substation	2	2021-08-09T21:06:34	2021-08-09T21:06:41	0:00:07	Vegetation	Severe storm moved through causing tree to fall into 41.6kv line
Warwick_Wells	Substation	2	2021-08-20T08:05:00	2021-08-20T08:05:03	0:00:03	Unknown	Unknown
Warwick_Wells	Substation	2	2021-08-31T16:14:16	2021-08-31T16:14:22	0:00:06	Unknown	Unknown
Warwick_Wells	Substation	2	2021-09-20T17:06:18	2021-09-20T17:06:26	0:00:08	Unknown	Unknown
Warwick_Wells	Substation	2	2021-12-31T08:51:45	2021-12-31T09:11:10	0:19:25	Equip Fail Conductor	Broken splice on conductor
Washburn	Substation	489	2021-02-03T15:51:22	2021-02-03T15:51:40	0:00:18	Unknown	SRep could not find an exact cause of blink
Washburn	Substation	489	2021-05-22T00:19:27	2021-05-22T00:19:39	0:00:12	Weather	Storm rolled through the area during the night and into the day. SReps couldn't find any specific issues.
Washburn	Substation	489	2021-06-08T21:51:46	2021-06-08T22:04:04	0:12:18	Weather	Lightning storm passed through the area causing multiple area's to have a blink.
Washburn	Substation	489	2021-07-05T23:16:16	2021-07-06T00:30:27	1:14:11	Equip Fail Pole	Pole fire caused outage. was fixed on the 7th of the month
Washburn	Substation	489	2021-07-16T11:34:05	2021-07-16T11:34:25	0:00:20	Unknown	Momentary blink throughout the area. Unknown cause as of now.
Washburn	Substation	489	2021-07-16T11:36:58	2021-07-16T11:37:19	0:00:21	Unknown	Momentary blink throughout the area. Unknown cause as of now.
Washburn	Substation	489	2021-09-29T12:56:37	2021-09-29T13:03:56	0:07:19	Lightning	2 poles struck by lightning on the 41.6kv. Poles have been changed out and should be good now.
Webster	Substation	41	2021-06-06T03:21:46	2021-06-06T10:43:15	7:21:29	Weather	AMB audited 6/28/21 - Severe storm with high winds moved through breaking poles, insulators, and failed breaker in SW
Webster	Substation	41	2021-07-29T11:51:43	2021-07-29T11:53:44	0:02:01	Unknown	Unknown
Webster	Substation	41	2021-07-29T12:00:49	2021-07-29T12:01:49	0:01:00	Unknown	Unknown
Webster	Substation	41	2021-08-09T19:35:56	2021-08-09T19:36:06	0:00:10	Weather	Severe Storm system with rotation moved through the area.
Webster	Substation	41	2021-09-29T18:35:30	2021-09-29T18:35:36	0:00:06	Unknown	Unknown
Webster	Substation	41	2021-09-30T14:49:52	2021-09-30T14:49:58	0:00:06	Unknown	Unknown
Webster	Substation	41	2021-12-28T07:58:36	2021-12-28T07:58:45	0:00:09	Unknown	Unknown - winter storm in area.
Westhope_EastFeeder	Feeder	97	2021-08-27T11:11:39	2021-08-27T11:14:31	0:02:52	Bird	SRep stated that they found a dead bird by the side of one of the pieces of equipment. Believes that caused the outage.
Westhope_EastFeeder	Feeder	65	2021-09-02T06:23:40	2021-09-02T06:23:50	0:00:10	Weather	Rain and lightning were occurring throughout the region.
Westhope_EastFeeder	Feeder	32	2021-09-02T06:23:55	2021-09-02T06:24:01	0:00:06	Weather	Rain and lightning were occurring throughout the region.
Wheatland	Substation	53	2021-08-22T15:20:07	2021-08-22T19:32:30	4:12:23	Vegetation	AMB audited 8/27/21 - Storm caused some tree damage we had to cut out trees to get towns back on.
Wheatland	Substation	53	2021-12-09T23:04:58	2021-12-09T23:17:06	0:12:08	Unknown	patrolled and nothing found, monitors had this as a 5 second blink.
Willow_City	Substation	200	2021-01-27T13:08:12	2021-01-27T13:54:07	0:45:55	Equip Fail Arrester	arrester blew in willow city

Willow_City	Substation	200	2021-01-27T14:25:47	2021-01-27T14:40:04	0:14:17	Equip Fail Arrester	arrester blew in willow city
Willow_City	Substation	73	2021-05-25T23:43:21	2021-05-25T23:43:27	0:00:06	Weather	Storm passed through the area. SReps couldn't find any exact cause besides storm.
Willow_City	Substation	132	2021-05-25T23:43:39	2021-05-25T23:43:45	0:00:06	Weather	Storm passed through the area. SReps couldn't find any exact cause besides storm.
Willow_City	Substation	200	2021-06-06T01:48:17	2021-06-06T01:48:28	0:00:11	Weather	Storms were moving across north and central ND causing blinks
Willow_City	Substation	200	2021-06-08T13:29:50	2021-06-08T14:18:09	0:48:19	Equip Fail Pole	Pole broke. No specific reason found. Has been fixed
Willow_City	Substation	72	2021-07-05T12:45:04	2021-07-05T12:45:11	0:00:07	Equip Fail Arrester	Blown Arrester.
Willow_City	Substation	131	2021-07-05T12:45:20	2021-07-05T12:45:32	0:00:12	Equip Fail Arrester	Blown Arrester.
Willow_City	Substation	200	2021-07-12T05:53:40	2021-07-12T05:53:53	0:00:13	Weather	Rain and high gusts during the morning caused multiple blinks throughout the region
Willow_City	Substation	73	2021-08-24T09:41:30	2021-08-24T09:41:37	0:00:07	Weather	SRep stated that it was raining during the blink, but could not find exact cause.
Willow_City	Substation	127	2021-08-24T09:41:45	2021-08-24T09:41:55	0:00:10	Weather	SRep stated that it was raining during the blink, but could not find exact cause.
WiltonND_Rural	Substation	3	2021-02-02T01:42:32	2021-02-02T05:52:54	4:10:22	Equip Fail Pole	AMB audited 3/1/21 - insulator and Xarm on different poles broke on the same stretch of line causing line to gallop and ground out.
WiltonND_Rural	Substation	3	2021-02-03T15:51:26	2021-02-03T15:51:48	0:00:22	Unknown	SRep could not find an exact cause of blink
WiltonND_Rural	Substation	3	2021-02-09T14:16:19	2021-02-09T14:57:30	0:41:11	Planned	Planned outage with Electrician
WiltonND_Rural	Substation	3	2021-05-22T00:19:42	2021-05-22T00:19:47	0:00:05	Weather	Storm rolled through the area during the night and into the day. SReps couldn't find any specific issues.
WiltonND_Rural	Substation	3	2021-06-08T21:52:01	2021-06-08T22:04:12	0:12:11	Weather	Lightning storm passed through the area causing multiple area's to have a blink.
WiltonND_Rural	Substation	3	2021-07-05T23:16:26	2021-07-06T03:20:39	4:04:13	Equip Fail Pole	AMB audit 7/29/21 - Per Nick: pole fire on 7/5-6 and was fixed on the 7th. No switches on the line so the sub itself had to be de-energized to
WiltonND_Rural	Substation	3	2021-07-07T10:30:10	2021-07-07T12:54:58	2:24:48	Equip Fail Pole	AMB audit 7/29/21 - Per Nick: pole fire on 7/5-6 and was fixed on the 7th. No switches on the line so the sub itself had to be de-energized to
WiltonND_Rural	Substation	3	2021-07-16T11:34:11	2021-07-16T11:34:17	0:00:06	Unknown	Momentary blink throughout the area. Unknown cause as of now.
WiltonND_Rural	Substation	3	2021-07-16T11:37:04	2021-07-16T11:37:10	0:00:06	Unknown	Momentary blink throughout the area. Unknown cause as of now.
WiltonND_Rural	Substation	3	2021-09-29T12:56:55	2021-09-29T13:04:02	0:07:07	Lightning	2 poles struck by lightning on the 41.6kv. Poles have been changed out and should be good now.
Windsor	Substation	19	2021-02-01T13:56:27	2021-02-01T13:57:29	0:01:02	Weather	Heavy frost on the conductors caused momentary and sustained outages when the wind blew..
Windsor	Substation	19	2021-02-01T15:03:10	2021-02-01T15:04:11	0:01:01	Weather	Heavy frost on the conductors caused momentary and sustained outages when the wind blew..
Windsor	Substation	19	2021-02-02T07:26:48	2021-02-02T07:27:01	0:00:13	Equip Fail Conductor	Heavy frost on the conductors broke a CPEC line in the Gackle area.
Windsor	Substation	31	2021-02-02T19:02:35	2021-02-02T19:04:57	0:02:22	Weather	Heavy frost on the conductors caused momentary and sustained outages when the wind blew..
Windsor	Substation	19	2021-02-02T19:05:58	2021-02-02T19:17:22	0:11:24	Weather	Heavy frost on the conductors caused momentary and sustained outages when the wind blew..
Windsor	Substation	19	2021-02-03T00:27:06	2021-02-03T00:29:07	0:02:01	Weather	Heavy frost on the conductors caused momentary and sustained outages when the wind blew..
Windsor	Substation	19	2021-02-03T00:32:27	2021-02-03T00:32:48	0:00:21	Weather	Heavy frost on the conductors caused momentary and sustained outages when the wind blew..
Windsor	Substation	19	2021-02-03T07:34:11	2021-02-03T07:34:27	0:00:16	Weather	Heavy frost on the conductors caused momentary and sustained outages when the wind blew..
Windsor	Substation	19	2021-02-03T08:38:30	2021-02-03T08:38:46	0:00:16	Weather	Heavy frost on the conductors caused momentary and sustained outages when the wind blew..

Windsor	Substation	19	2021-02-03T11:03:22	2021-02-03T11:03:39	0:00:17	Weather	Heavy frost on the conductors caused momentary and sustained outages when the wind blew..
Windsor	Substation	19	2021-02-03T12:31:19	2021-02-03T12:42:14	0:10:55	Weather	Heavy frost on the conductors caused momentary and sustained outages when the wind blew..
Windsor	Substation	19	2021-02-03T15:56:13	2021-02-03T16:51:28	0:55:15	Weather	Heavy frost on the conductors caused momentary and sustained outages when the wind blew..
Windsor	Substation	19	2021-02-03T16:52:19	2021-02-03T16:56:39	0:04:20	Weather	Heavy frost on the conductors caused momentary and sustained outages when the wind blew..
Windsor	Substation	8	2021-03-30T02:00:34	2021-03-30T02:00:41	0:00:07	Equip Fail Other	Broken jumper on the transformer feeding St Margarets Catholic Church parish hall found 4/5/21..
Windsor	Substation	8	2021-03-30T02:11:37	2021-03-30T02:11:43	0:00:06	Equip Fail Other	Broken jumper on the transformer feeding St Margarets Catholic Church parish hall found 4/5/21..
Windsor	Substation	8	2021-03-30T02:29:56	2021-03-30T02:30:22	0:00:26	Equip Fail Other	Broken jumper on the transformer feeding St Margarets Catholic Church parish hall found 4/5/21..
Windsor	Substation	8	2021-03-30T02:33:36	2021-03-30T02:33:46	0:00:10	Equip Fail Other	Broken jumper on the transformer feeding St Margarets Catholic Church parish hall found 4/5/21..
Windsor	Substation	8	2021-03-30T12:19:36	2021-03-30T12:19:49	0:00:13	Equip Fail Other	Broken jumper on the transformer feeding St Margarets Catholic Church parish hall found 4/5/21..
Windsor	Substation	8	2021-03-30T13:22:58	2021-03-30T13:23:06	0:00:08	Equip Fail Other	Broken jumper on the transformer feeding St Margarets Catholic Church parish hall found 4/5/21..
Windsor	Substation	8	2021-03-30T13:25:19	2021-03-30T13:25:24	0:00:05	Equip Fail Other	Broken jumper on the transformer feeding St Margarets Catholic Church parish hall found 4/5/21..
Windsor	Substation	8	2021-04-05T10:13:43	2021-04-05T11:45:42	1:31:59	Unknown	AMB audited 5/25/21 - Unknown and not investigated.
Windsor	Substation	19	2021-05-19T22:37:34	2021-05-19T23:38:37	1:01:03	Equip Fail Conductor	AMB audited 5/25/21 - Broken center phase mid span on transmission line approximately 1.25 miles west of Windsor I-94 exit.
Windsor	Substation	19	2021-06-04T20:09:04	2021-06-04T20:09:25	0:00:21	Weather	Storm in the area.
Windsor	Substation	8	2021-06-07T18:48:16	2021-06-07T18:48:23	0:00:07	Weather	Storm in the area.
Windsor	Substation	12	2021-06-07T18:48:25	2021-06-07T18:48:35	0:00:10	Weather	Storm in the area.
Windsor	Substation	19	2021-06-08T01:46:43	2021-06-08T01:47:05	0:00:22	Weather	Storm in the area.
Windsor	Substation	19	2021-06-08T09:29:44	2021-06-08T09:30:00	0:00:16	Weather	Storm in the area.
Windsor	Substation	19	2021-09-25T09:55:01	2021-09-25T09:55:25	0:00:24	Unknown	Unknown and not investigated. No SEL data.
Wing	Substation	91	2021-02-02T01:42:26	2021-02-02T03:52:42	2:10:16	Equip Fail Pole	AMB audited 3/1/21 - insulator and Xarm on different poles broke on the same stretch of line causing line to gallop and ground out.
Wing	Substation	91	2021-02-03T15:51:26	2021-02-03T15:52:19	0:00:53	Unknown	SRep could not find a reason for outage
Wing	Substation	131	2021-05-22T00:19:30	2021-05-22T00:20:37	0:01:07	Weather	Storm rolled through the area during the night and into the day. SReps couldn't find any specific issues.
Wing	Substation	132	2021-06-08T21:51:52	2021-06-08T22:04:38	0:12:46	Weather	Lightning storm passed through the area causing multiple area's to have a blink.
Wing	Substation	132	2021-07-05T23:16:28	2021-07-05T23:31:12	0:14:44	Equip Fail Pole	Pole fire caused outage. was fixed on the 7th of the month
Wing	Substation	132	2021-07-16T11:34:09	2021-07-16T11:35:02	0:00:53	Unknown	Momentary blink throughout the area. Unknown cause as of now.
Wing	Substation	132	2021-07-16T11:37:08	2021-07-16T11:38:02	0:00:54	Unknown	Momentary blink throughout the area. Unknown cause as of now.
Wing	Substation	131	2021-09-29T12:56:42	2021-09-29T13:04:23	0:07:41	Lightning	2 poles struck by lightning on the 41.6kv. Poles have been changed out and should be good now.
Wyndmere	Substation	435	2021-03-01T10:52:49	2021-03-01T11:00:01	0:07:12	Equip Fail Pole	Changing out a pole and phase got into the neutral and tripped the breaker.
Wyndmere	Substation	435	2021-07-05T02:12:00	2021-07-05T02:12:07	0:00:07	Unknown	41.6 line issue we will patrol and update if we find something.

Wyndmere	Substation	435	2021-07-13T08:26:57	2021-07-13T10:32:05	2:05:08	Vehicle Accident	AMB audited 7/27/21 - Contractor tore down overhead service wire.
Wyndmere	Substation	435	2021-07-17T11:10:52	2021-07-17T11:11:17	0:00:25	Unknown	No customer calls
Wyndmere	Substation	435	2021-08-24T03:14:18	2021-08-24T03:15:20	0:01:02	Weather	Thunder storms in the area with a lot of lightning and strong winds.
Wyndmere	Substation	435	2021-08-26T15:35:52	2021-08-26T15:36:00	0:00:08	Weather	Strong storms with lightning and strong winds caused numerous outages.
Wyndmere	Substation	435	2021-08-26T15:36:31	2021-08-26T15:36:41	0:00:10	Weather	Strong storms with lightning and strong winds caused numerous outages.
Wyndmere	Substation	435	2021-09-08T02:46:16	2021-09-08T02:46:42	0:00:26	Unknown	5 second blink on monitors
Wyndmere	Substation	435	2021-09-17T17:06:02	2021-09-17T17:06:48	0:00:46	Vehicle Accident	Farmer tore down 41.6 kva line west of Wahpeton
Wyndmere	Substation	435	2021-11-22T14:36:42	2021-11-22T14:36:51	0:00:09	Equip Fail Other	Wind took down a bad pole.
York	Substation	51	2021-05-21T09:31:03	2021-05-21T09:31:33	0:00:30	Equip Fail Insulator	6 insulators failed 15 miles east of Rugby, SRep fixed all six. no cause on why all 6 failed. But held after changeouts.
York	Substation	51	2021-05-21T09:32:44	2021-05-21T09:33:17	0:00:33	Equip Fail Insulator	6 insulators failed 15 miles east of Rugby, SRep fixed all six. no cause on why all 6 failed. But held after changeouts.
York	Substation	51	2021-05-21T09:42:42	2021-05-21T09:42:49	0:00:07	Equip Fail Insulator	6 insulators failed 15 miles east of Rugby, SRep fixed all six. no cause on why all 6 failed. But held after changeouts.
York	Substation	51	2021-05-21T09:44:13	2021-05-21T10:16:41	0:32:28	Equip Fail Insulator	6 insulators failed 15 miles east of Rugby, SRep fixed all six. no cause on why all 6 failed. But held after changeouts.
York	Substation	51	2021-08-09T18:22:49	2021-08-09T18:22:56	0:00:07	Lightning	storm came through causing Lightning, Hail and rain
York	Substation	51	2021-10-27T11:07:03	2021-10-27T11:08:49	0:01:46		
York	Substation	51	2021-10-27T11:15:24	2021-10-27T11:17:05	0:01:41		