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April 26, 2023

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

**PUBLIC DOCUMENT –  
NOT PUBLIC (OR PRIVILEGED)  
DATA HAS BEEN EXCISED**

**Re: In the Matter of Otter Tail Power Company’s Reliability Report and  
Major Service Interruption Summary  
Case No. PU-23-  
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 2022 and includes a detailed breakdown of each major event day as defined in ND code and IEEE 2.5 beta method.

The institute of electrical and electronics engineers (IEEE) standard 1366 indices describe 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).

Also included is Otter Tail’s Major Service Interruption Summary (Attachment 2) that has been provided to the Commission since 2005.

**Otter Tail Power Company’s Reliability Monitoring Process**

Otter Tail utilizes an Interruption Monitoring System (IMS) which deploys Itron cellular 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 future interruption and IEEE indices reports, Otter Tail will be upgrading and improving its reliability monitoring processes in the future. In late 2022, Otter Tail implemented an outage management system (OMS). Also, Otter Tail plans to implement

Advanced Metering Infrastructure (AMI) throughout the system with completion planned in 2025. With these reliability monitoring improvements, the devices will capture more data than currently and we expect to see increases to our future number of interruptions recorded and the IEEE indices reported, i.e. SAIDI, SAIFI, and MAIFI. It is unclear what the future impact to CAIDI will be.

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. A future transfer of reporting systems timing is yet to be determined. The increase in granularity will be very helpful for Otter Tail engineering and operations staff as they look to use the information to inform future investment decisions.

### **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 - 2021.
- The system  $T_{med}$  is utilized to run our indices for North Dakota and individual North Dakota Customer Service Centers.

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

#### **2.5 Beta Parameters:**

Alpha	Beta	Major Event Day
-2.13	1.80	10.75

After applying 2.5 Beta Parameters for 2022 across Otter Tail's system, two days met the criteria to be considered a Major Event Day (MED), 5/12/22 and 6/20/22.

- 5/12/22 – May 12 was identified as a MED, with 91 minutes of SAIDI recorded. 24,000 customers throughout our system experienced prolonged interruptions with significant equipment damage including 250 broken poles due to severe weather.
- 6/20/22 – June 20 was identified as a MED with 16 minutes of SAIDI recorded. Severe weather caused equipment damage including several broken transmission structures.

Below is a table showing 2022 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:

2022 State/Customer Service Center	SAIFI	SAIDI (minutes)	CAIDI (minutes)	MAIFI	Sustained Customer Minutes
ND	1.884839	130.59	69.28	7.459795	8620183
Devils Lake	2.188102	143.46	65.56	8.083267	1622944
Jamestown	2.155738	123.02	57.07	9.019226	2290765
Rugby	1.812794	185.38	102.26	6.952487	2996518
Wahpeton	1.142578	54.18	47.42	4.973072	887272
2022 OTP System KPI Goals	1.2	85	70	5.5	NA

## Major Service Interruption Summary

In August 2005, Otter Tail agreed to provide the North Dakota Public Service Commission with service interruption information that entailed interruptions within North Dakota affecting 500 or more customers for one hour or longer. Starting this year, we are including this annual summary of these reported events with our Annual Reliability Report rather than submitting it in a separate informational filing.

In 2022, there were 26 events that met the reporting criteria described above or were considered significant enough to be reported. Each event is described in Otter Tail's Major Service Interruption Summary included with this filing as Attachment 2.

An electronic copy of this filing is being sent to the North Dakota Public Service Commission at [ndpsc@nd.gov](mailto:ndpsc@nd.gov).

If you have any questions regarding this filing, please contact me at 218-739-8552 or at [rjensen@otpc.com](mailto:rjensen@otpc.com).

Sincerely,

/s/ ROD D. JENSEN, P.E.  
Rod D. Jensen, P.E.  
Senior Reliability Engineer

lcd  
Enclosures

Equipment ID	Equipment Type	Phase(s)	Customers	Outage Start	Outage End	Duration	Customer Service Center	Region	Cause	Notes
[PROTECTED DATA BEGINS...										
	Substation	RBY	230	2022-05-09T05:56:53	2022-05-09T05:57:01	0:00:08	Wahpeton	Vetter_AI	Weather	Multiple lightning strikes on the system so we have multiple blown arrestors and fuses.
	Substation	RBY	230	2022-05-31T02:53:44	2022-05-31T02:53:50	0:00:06	Wahpeton	Vetter_AI	Weather	Several strong storms went through the area with high winds and lightning.
	Substation	RBY	230	2022-06-14T05:41:12	2022-06-14T05:41:20	0:00:08	Wahpeton	Vetter_AI	Weather	Storms with lots of lightning in the whole area.
	Substation	RBY	230	2022-07-19T02:48:06	2022-07-19T02:48:16	0:00:10	Wahpeton	Vetter_AI	Weather	Storms with lightning in the area
	Substation	RBY	230	2022-07-22T12:59:15	2022-07-22T12:59:23	0:00:08	Wahpeton	Vetter_AI	Bird	Bird in Galcutt sub caused blink
	Substation	RBY	230	2022-07-31T04:29:09	2022-07-31T04:29:18	0:00:09	Wahpeton	Vetter_AI	Weather	Storms with lots of lightning in the area.
	Substation	RBY	230	2022-09-02T20:13:05	2022-09-02T20:13:13	0:00:08	Wahpeton	Vetter_AI	Unknown	No customer calls, 41.6 breaker operated we will patrol when we get time.
	Substation	RBY	230	2022-09-29T13:53:15	2022-09-29T13:53:23	0:00:08	Wahpeton	Vetter_AI	other	OTP relay techs tripped out breaker while working in the Wahpeton 230 sub.
	Substation	R	28	2022-04-19T10:12:37	2022-04-19T11:13:27	1:00:50	Jamestown	Atkinson_Tom	Equip Fail Insulator	Broken insulator approximately 1 mile south of the Galesburg/Clifford sub.
	Substation	R	28	2022-04-22T22:49:14	2022-04-22T22:50:07	0:00:53	Jamestown	Atkinson_Tom	Weather	Storms in the area.
	Substation	R	28	2022-06-14T06:43:15	2022-06-14T06:44:21	0:01:06	Jamestown	Atkinson_Tom	Weather	Storm in the area.
	Substation	R	28	2022-07-10T07:55:52	2022-07-10T07:56:55	0:01:03	Jamestown	Atkinson_Tom	Weather	Storms with strong winds, rain, lightning.
	Substation	R	28	2022-07-13T08:26:57	2022-07-13T08:28:05	0:01:08	Jamestown	Atkinson_Tom	Equip Fail Cutout	Failed cutout by Mewes Farms east of Colgate.
	Substation	R	28	2022-07-13T09:05:34	2022-07-13T10:02:50	0:57:16	Jamestown	Atkinson_Tom	Bird	Blown high side fuse in the Absaraka sub caused by a bird.
	Substation	R	28	2022-07-21T19:06:08	2022-07-21T19:07:10	0:01:02	Jamestown	Atkinson_Tom	Weather	Storm in the area.
	Substation	R	28	2022-08-11T14:53:22	2022-08-11T14:54:21	0:00:59	Jamestown	Atkinson_Tom	Equip Fail Insulator	Failed distribution insulators replaced.
	Substation	R	28	2022-08-11T15:09:41	2022-08-11T15:10:36	0:00:55	Jamestown	Atkinson_Tom	Equip Fail Insulator	Failed distribution insulators replaced.
	Substation	R	28	2022-08-11T15:32:14	2022-08-11T15:33:08	0:00:54	Jamestown	Atkinson_Tom	Equip Fail Insulator	Failed distribution insulators replaced.
	Substation	R	28	2022-08-11T16:16:12	2022-08-11T16:17:13	0:01:01	Jamestown	Atkinson_Tom	Equip Fail Insulator	Failed distribution insulators replaced.
	Substation	R	28	2022-08-17T00:32:55	2022-08-17T06:10:07	5:37:12	Jamestown	Atkinson_Tom	Itron meter failure	RDJ 9/1/22. Blown transformer fuse at 2926 143rd Ave SE. Only 2 customers affected.
	Substation	R	28	2022-08-22T02:20:14	2022-08-22T02:21:18	0:01:04	Jamestown	Atkinson_Tom	Unknown	Unknown and not patrolled.
	Substation	R	28	2022-08-28T13:25:20	2022-08-28T13:26:13	0:00:53	Jamestown	Atkinson_Tom	Unknown	Line patrolled and no cause found.
	Substation	BY	31	2022-08-26T20:45:59	2022-08-26T20:46:13	0:00:14	Wahpeton	Thompson_Wade	Weather	Storms with lightning in the area
	Substation	BY	31	2022-10-12T11:52:52	2022-10-12T11:53:06	0:00:14	Wahpeton	Thompson_Wade	Animal	Bird on an insulator
	Substation	BY	31	2022-10-16T08:44:54	2022-10-16T08:45:10	0:00:16	Wahpeton	Thompson_Wade	Unknown	We are patrolling the line to try and find something.
	Substation	BY	31	2022-11-09T17:03:46	2022-11-09T17:04:31	0:00:45	Wahpeton	Thompson_Wade	Weather	
	Substation	BY	31	2022-11-09T17:26:47	2022-11-09T17:27:01	0:00:14	Wahpeton	Thompson_Wade	Weather	Ice on lines caused multiple outages
	Substation	BY	30	2022-11-09T17:28:08	2022-11-09T17:28:27	0:00:19	Wahpeton	Thompson_Wade	Weather	
	Substation	BY	30	2022-11-09T18:30:39	2022-11-09T18:30:54	0:00:15	Wahpeton	Thompson_Wade	Weather	Ice on tap caused substation to see load and it finally took the whole sub down causing several outages.
	Substation	BY	31	2022-11-09T21:31:31	2022-11-09T21:31:45	0:00:14	Wahpeton	Thompson_Wade	Weather	Ice on lines caused multiple outages
	Substation	BY	31	2022-11-09T21:49:18	2022-11-09T21:49:31	0:00:13	Wahpeton	Thompson_Wade	Weather	
	Substation	BY	31	2022-12-13T19:26:32	2022-12-13T19:27:15	0:00:43	Wahpeton	Thompson_Wade	Weather	Ice and snow on lines caused numourous outages.
	Substation	BY	31	2022-12-13T19:45:09	2022-12-13T19:45:46	0:00:37	Wahpeton	Thompson_Wade	Weather	Ice and snow on lines caused numourous outages.
	Substation	RBY	70	2022-04-23T02:35:48	2022-04-23T02:35:54	0:00:06	Wahpeton	Hoye_Jeff	Weather	High Winds and storms in the area.
	Substation	RBY	70	2022-04-29T14:41:59	2022-04-29T14:43:45	0:01:46	Wahpeton	Hoye_Jeff	Unknown	phase to phase contact on 115 near Casselton
	Substation	RBY	70	2022-08-23T18:39:38	2022-08-23T19:10:38	0:31:00	Wahpeton	Hoye_Jeff	Equip Fail Insulator	Top insulator burnt off and caused the outage
	Substation	RBY	70	2022-11-09T18:31:03	2022-11-09T19:01:41	0:30:38	Wahpeton	Hoye_Jeff	Weather	Ice on lines caused multiple outages.
	Substation	RBY	70	2022-11-09T19:15:05	2022-11-09T19:15:45	0:00:40	Wahpeton	Hoye_Jeff	Weather	Ice buildup caused the line to gallop and make contact phase to phase multiple times.
	Substation	RBY	70	2022-11-09T19:16:21	2022-11-09T19:29:55	0:13:34	Wahpeton	Hoye_Jeff	Weather	Ice buildup caused the line to gallop and make contact phase to phase multiple times.
	Substation	RBY	70	2022-11-09T19:30:41	2022-11-09T20:14:05	0:43:24	Wahpeton	Hoye_Jeff	Weather	Ice buildup caused the line to gallop and make contact phase to phase multiple times.
	Substation	RBY	70	2022-11-09T20:52:14	2022-11-09T20:52:21	0:00:07	Wahpeton	Hoye_Jeff	Weather	Ice on lines caused multiple outages
	Substation	RBY	70	2022-12-13T04:54:33	2022-12-13T05:39:56	0:45:23	Wahpeton	Hoye_Jeff	Equip Fail Substation	Breaker in Sub is bad so had to open and take out of service.
	Substation	RBY	70	2022-12-14T10:39:42	2022-12-14T10:39:46	0:00:04	Wahpeton	Hoye_Jeff	Equip Fail Substation	planned outage for replacing breaker from previous evening.
	Substation	RBY	183	2022-06-13T21:53:10	2022-06-13T21:55:44	0:02:34	Rugby	Voeller_Dave	Weather	Stormy weather with high winds traveled through the CSC causing blinks
	Substation	RBY	183	2022-06-13T22:16:28	2022-06-13T22:16:32	0:00:04	Rugby	Voeller_Dave	Weather	Stormy weather with high winds traveled through the CSC causing blinks
	Substation	RBY	183	2022-07-22T22:19:11	2022-07-22T22:19:16	0:00:05	Rugby	Voeller_Dave	Weather	Storm moving through - high winds and lightning
	Substation	RBY	183	2022-10-08T08:15:31	2022-10-08T08:15:38	0:00:07	Rugby	Voeller_Dave	Unknown	UNKNOWN
	Substation	RBY	183	2022-12-15T10:35:02	2022-12-15T10:35:11	0:00:09	Rugby	Voeller_Dave	Weather	Icing conditions high winds/blizzard
	Substation	RBY	183	2022-12-15T10:36:23	2022-12-15T10:36:30	0:00:07	Rugby	Voeller_Dave	Weather	Icing conditions high winds/blizzard
	Substation	RBY	183	2022-12-15T10:38:55	2022-12-15T11:28:11	0:49:16	Rugby	Voeller_Dave	Weather	Icing conditions high winds/blizzard

Equipment ID	Equipment Type	Phase(s)	Customers	Outage Start	Outage End	Duration	Customer Service Center	Region	Cause	Notes
	Substation	R	1	2022-06-13T21:53:29	2022-06-13T21:56:02	0:02:33	Rugby	Voeller_Dave	Weather	Stormy weather with high winds traveled through the CSC causing blinks
	Substation	R	1	2022-10-08T08:15:27	2022-10-08T08:15:33	0:00:06	Rugby	Voeller_Dave	Unknown	UNKNOWN
	Substation	R	1	2022-12-15T10:35:02	2022-12-15T10:35:07	0:00:05	Rugby	Voeller_Dave	Weather	Icing conditions high winds/blizzard
	Substation	R	1	2022-12-15T10:36:19	2022-12-15T10:36:26	0:00:07	Rugby	Voeller_Dave	Weather	Icing conditions high winds/blizzard
	Substation	R	1	2022-12-15T10:38:51	2022-12-15T11:28:07	0:49:16	Rugby	Voeller_Dave	Weather	Icing conditions high winds/blizzard
										Antler was shown to have an outage with a bunch of other towns out of Jamestown. this is an issue with Itron and not the town of Antler. Jeremy has reached out to sysop on trying to get Antler out of that area's notifications
	Substation	RBV	203	2022-04-19T10:12:37	2022-04-19T11:48:01	1:35:24	Rugby	Schell_Peary	Itron meter failure	
	Substation	RBV	203	2022-04-22T22:49:14	2022-04-22T22:49:25	0:00:11	Rugby	Schell_Peary	Unknown	SRep could not find a reason for blink
	Substation	RBV	203	2022-06-14T06:43:24	2022-06-14T06:43:29	0:00:05	Rugby	Schell_Peary	Unknown	SRep could not find a reason for the blink
										Storms rolled through the area causing damage throughout its path. rain, lightning and high winds
	Substation	RBV	203	2022-07-10T07:56:01	2022-07-10T07:56:07	0:00:06	Rugby	Schell_Peary	Weather	
	Substation	RBV	203	2022-07-13T08:27:10	2022-07-13T08:27:15	0:00:05	Rugby	Schell_Peary	Unknown	SRep could not find an exact reason for the blink.
	Substation	RBV	203	2022-07-21T19:06:14	2022-07-21T19:06:21	0:00:07	Rugby	Schell_Peary	Unknown	Unknown
	Substation	RBV	203	2022-08-28T00:00:32	2022-08-28T00:00:41	0:00:09	Rugby	Schell_Peary	Unknown	Unknown
	Substation	RBV	203	2022-09-03T07:55:44	2022-09-03T07:55:49	0:00:05	Rugby	Schell_Peary	Unknown	Unknown
	Substation	BRY	41	2022-02-01T02:31:48	2022-02-01T02:32:07	0:00:19	Crookston	Fenner_Myron		
										Contributing factor to broken insulator is wind and ice with lines galloping
	Substation	BRY	42	2022-02-01T02:33:02	2022-02-01T03:57:53	1:24:51	Crookston	Fenner_Myron	Equip Fail Insulator	40KV insulator failure approx. 4 miles west of Forest River causing pole fire. DLS
										Bad insulator caused pole fire, this line has been approved for extended line however insulators are on back order. DLS
	Substation	BRY	42	2022-05-18T22:06:14	2022-05-18T22:07:31	0:01:17	Crookston	Fenner_Myron	Equip Fail Insulator	
										10.1 miles from Oslo according to relay, investigated with no cause found
	Substation	BRY	42	2022-05-25T16:12:21	2022-05-25T17:13:51	1:01:30	Crookston	Fenner_Myron	Equip Fail Insulator	
	Substation	BRY	42	2022-06-24T17:02:52	2022-06-24T17:04:14	0:01:22	Crookston	Fenner_Myron		
	Substation	BRY	40	2022-06-24T17:30:08	2022-06-24T17:31:30	0:01:22	Crookston	Fenner_Myron		
	Substation	BRY	42	2022-06-24T18:12:39	2022-06-24T18:14:01	0:01:22	Crookston	Fenner_Myron		
	Substation	BRY	41	2022-06-24T22:36:38	2022-06-25T01:06:58	2:30:20	Crookston	Fenner_Myron	Lightning	Pole damage due to lightning. JCH Audited 7/28/22
	Substation	BRY	42	2022-07-14T17:04:57	2022-07-14T17:06:20	0:01:23	Crookston	Fenner_Myron		
	Substation	BRY	42	2022-09-07T22:56:08	2022-09-07T22:57:32	0:01:24	Crookston	Fenner_Myron		
										10.1 miles from Oslo according to relay, investigated with no cause found
	Substation	BRY	42	2022-10-30T07:57:12	2022-10-30T07:58:34	0:01:22	Crookston	Fenner_Myron	Unknown	
	Substation	RBV	4	2022-02-01T02:31:54	2022-02-01T02:32:02	0:00:08	Crookston	Fenner_Myron		
										Contributing factor to broken insulator is wind and ice with lines galloping
	Substation	RBV	4	2022-02-01T02:33:05	2022-02-01T03:57:47	1:24:42	Crookston	Fenner_Myron	Equip Fail Insulator	40KV insulator failure approx. 4 miles west of Forest River causing pole fire. DLS
										Bad insulator caused pole fire, this line has been approved for extended line however insulators are on back order. DLS
	Substation	RBV	4	2022-05-18T22:06:20	2022-05-18T22:07:26	0:01:06	Crookston	Fenner_Myron	Equip Fail Insulator	
										10.1 miles from Oslo according to relay, investigated with no cause found
	Substation	RBV	4	2022-05-25T16:12:29	2022-05-25T17:13:52	1:01:23	Crookston	Fenner_Myron	Equip Fail Insulator	
	Substation	RBV	4	2022-06-24T17:02:54	2022-06-24T17:04:15	0:01:21	Crookston	Fenner_Myron		
	Substation	RBV	4	2022-06-24T17:30:24	2022-06-24T17:31:31	0:01:07	Crookston	Fenner_Myron		
	Substation	RBV	4	2022-06-24T17:36:22	2022-06-24T17:37:30	0:01:08	Crookston	Fenner_Myron		
	Substation	RBV	4	2022-06-24T17:42:40	2022-06-24T17:43:48	0:01:08	Crookston	Fenner_Myron		
	Substation	RBV	4	2022-06-24T18:12:54	2022-06-24T18:14:02	0:01:08	Crookston	Fenner_Myron		
	Substation	RBV	4	2022-06-24T22:36:54	2022-06-25T01:06:58	2:30:04	Crookston	Fenner_Myron	Lightning	Pole damage due to lightning. JCH Audited 7/28/22
	Substation	RBV	4	2022-07-14T17:05:14	2022-07-14T17:06:21	0:01:07	Crookston	Fenner_Myron		
	Substation	RBV	4	2022-09-07T22:56:16	2022-09-07T22:57:25	0:01:09	Crookston	Fenner_Myron		
	Substation	RBV	4	2022-10-20T11:50:48	2022-10-20T11:50:55	0:00:07	Crookston	Fenner_Myron		
										10.1 miles from Oslo according to relay, investigated with no cause found
	Substation	RBV	4	2022-10-30T07:57:19	2022-10-30T07:58:27	0:01:08	Crookston	Fenner_Myron	Unknown	Broken insulator approximately 1 mile south of the Galesburg/Clifford sub.
	Substation	BRY	53	2022-04-19T10:12:36	2022-04-19T11:13:17	1:00:41	Jamestown	Atkinson_Tom	Equip Fail Insulator	
	Substation	BRY	53	2022-04-22T22:49:14	2022-04-22T22:49:36	0:00:22	Jamestown	Atkinson_Tom	Weather	Storms in the area.
	Substation	BRY	52	2022-06-14T06:43:15	2022-06-14T06:44:22	0:01:07	Jamestown	Atkinson_Tom	Weather	Storm in the area.
	Substation	BRY	53	2022-07-10T07:55:55	2022-07-10T07:56:57	0:01:02	Jamestown	Atkinson_Tom	Weather	Storms with strong winds, rain, lightning.
	Substation	BY	38	2022-07-21T19:06:11	2022-07-21T19:06:30	0:00:19	Jamestown	Atkinson_Tom	Weather	Storm in the area.
	Feeder	RY	28	2022-03-28T12:54:56	2022-03-28T13:57:36	1:02:40	Rugby	Dillow_James	Equip Fail Insulator	Floater on the Distribution due to broken insulator.
	Feeder	RY	19	2022-03-28T14:03:53	2022-03-28T15:07:53	1:04:00	Rugby	Dillow_James	Equip Fail Insulator	Floater on the Distribution due to broken insulator.
	Feeder	BRY	28	2022-07-02T22:21:50	2022-07-02T22:23:04	0:01:14	Rugby	Dillow_James	Unknown	SRep could not find a reason for short blink
	Feeder	BRY	28	2022-07-16T03:39:16	2022-07-16T03:40:17	0:01:01	Rugby	Dillow_James	Unknown	SRep could not find an exact reason for the blink.
	Feeder	BRY	28	2022-08-01T08:15:46	2022-08-01T08:16:07	0:00:21	Rugby	Dillow_James	Unknown	Unknown
	Feeder	BRY	28	2022-08-14T03:45:31	2022-08-14T03:45:50	0:00:19	Rugby	Dillow_James	Unknown	unknown
	Feeder	BRY	28	2022-08-15T08:48:06	2022-08-15T08:48:30	0:00:24	Rugby	Dillow_James	Weather	Storm cell moved through the area.
	Feeder	BRY	28	2022-08-18T00:52:09	2022-08-18T03:15:21	2:23:12	Rugby	Dillow_James	Weather	Severe storm broke conductor and 4 insulators

Equipment ID	Equipment Type	Phase(s)	Customers	Outage Start	Outage End	Duration	Customer Service Center	Region	Cause	Notes
Feeder	BRY		28	2022-08-18T20:13:10	2022-08-18T20:13:33	0:00:23	Rugby	Dillow_James	Weather	Severe storm moved through
Feeder	BRY		28	2022-10-24T02:55:26	2022-10-24T02:55:50	0:00:24	Rugby	Dillow_James	Weather	Storm system moved through the area
Feeder	BRY		141	2022-07-02T22:21:52	2022-07-02T22:22:15	0:00:23	Rugby	Dillow_James	Unknown	SRep could not find a reason for short blink
Feeder	BRY		141	2022-07-16T03:39:18	2022-07-16T03:39:38	0:00:20	Rugby	Dillow_James	Unknown	SRep could not find an exact reason for the blink.
Feeder	BRY		141	2022-08-01T08:15:48	2022-08-01T08:16:10	0:00:22	Rugby	Dillow_James	Unknown	Unknown
Feeder	BRY		141	2022-08-14T03:45:31	2022-08-14T03:45:53	0:00:22	Rugby	Dillow_James	Unknown	unknown
Feeder	RY		89	2022-08-15T08:42:31	2022-08-15T08:42:46	0:00:15	Rugby	Dillow_James	Weather	Storm cell moved through the area.
Feeder	BRY		141	2022-08-15T08:48:15	2022-08-15T08:48:31	0:00:16	Rugby	Dillow_James	Weather	Storm cell moved through the area.
Feeder	BRY		141	2022-08-18T00:52:20	2022-08-18T03:15:21	2:23:01	Rugby	Dillow_James	Weather	Severe storm broke conductor and 4 insulators
Feeder	BRY		141	2022-08-18T20:13:17	2022-08-18T20:13:33	0:00:16	Rugby	Dillow_James	Weather	Severe storm moved through
Feeder	BRY		141	2022-10-24T02:55:34	2022-10-24T02:55:51	0:00:17	Rugby	Dillow_James	Weather	Storm system moved through the area
Feeder	RY		89	2022-12-15T20:00:57	2022-12-15T20:01:11	0:00:14	Rugby	Dillow_James	Weather	Icing conditions with high winds/blizzard
Feeder	Y		36	2022-12-15T20:05:45	2022-12-15T20:05:54	0:00:09	Rugby	Dillow_James	Weather	Icing conditions with high winds/blizzard
Feeder	RY		89	2022-12-15T20:24:49	2022-12-15T20:25:16	0:00:27	Rugby	Dillow_James	Weather	Icing conditions with high winds/blizzard
Feeder	Y		36	2022-12-15T20:38:23	2022-12-15T20:38:32	0:00:09	Rugby	Dillow_James	Weather	Icing conditions with high winds/blizzard
Feeder	Y		36	2022-12-15T20:45:11	2022-12-15T20:45:20	0:00:09	Rugby	Dillow_James	Weather	Icing conditions with high winds/blizzard
Feeder	BRY		222	2022-12-15T20:48:53	2022-12-16T08:45:22	11:56:29	Rugby	Dillow_James	Weather	Icing conditions with high winds/blizzard
Substation	RBY		61	2022-05-09T06:36:30	2022-05-09T06:36:49	0:00:19	Wahpeton	Vetter_Al	Weather	Strong thunderstorms with lots of lightning and heavy rain in the area.
Substation	RBY		61	2022-05-12T19:29:41	2022-05-12T19:29:56	0:00:15	Wahpeton	Vetter_Al	Weather	Strong storms with straight line winds caused extensive tree damage and several poles to break.
Substation	RBY		61	2022-05-25T01:10:27	2022-05-25T01:10:47	0:00:20	Wahpeton	Vetter_Al	Unknown	We have patrolled the line but without accurate SEL reading it is very hard to find issue.
Substation	RBY		61	2022-05-30T20:10:37	2022-05-30T20:13:34	0:02:57	Wahpeton	Vetter_Al	Weather	Several strong storms went through the area with high winds and lightning.
Substation	RBY		61	2022-06-30T00:17:02	2022-06-30T00:18:04	0:01:02	Wahpeton	Vetter_Al	Weather	Strong storms with wind and rain in the area
Substation	RBY		61	2022-09-01T05:14:49	2022-09-01T05:15:15	0:00:26	Wahpeton	Vetter_Al	Unknown	No customer calls, 41.6 breaker operated we will patrol when we get time.
Substation	RBY		61	2022-09-30T13:46:53	2022-09-30T13:47:08	0:00:15	Wahpeton	Vetter_Al	Animal	Squirrel got into the sub and caused significant damage.
Substation	RBY		61	2022-10-09T19:40:00	2022-10-09T19:40:47	0:00:47	Wahpeton	Vetter_Al	Unknown	No customer calls
Substation	R		4	2022-01-08T02:46:52	2022-01-08T02:47:20	0:00:28	Devils_Lake	Eriksson_Lehmann_Gardner	Equip Fail Conductor	Yellow Phase cable faulted out of the warehouse sub which was seen on the transmission
Substation	R		4	2022-03-09T09:04:06	2022-03-09T11:11:36	2:07:30	Devils_Lake	Eriksson_Lehmann_Gardner	Planned	Adjusting motor operated switches. JCH Audited 3/24/22
Substation	R		4	2022-03-14T22:56:42	2022-03-14T22:56:53	0:00:11	Devils_Lake	Eriksson_Lehmann_Gardner	Unknown	Unknown
Substation	R		4	2022-05-12T18:00:31	2022-05-12T18:00:38	0:00:07	Devils_Lake	Eriksson_Lehmann_Gardner	Weather	Storm system moved through with high wind, heavy rains and lightning.
Substation	R		4	2022-05-23T13:36:29	2022-05-23T14:13:59	0:37:30	Devils_Lake	Eriksson_Lehmann_Gardner	Equip Fail Fuse unknown cause	Blown fuse - nothing found
Substation	R		4	2022-05-25T15:02:41	2022-05-25T15:02:48	0:00:07	Devils_Lake	Eriksson_Lehmann_Gardner	Unknown	Unknown
Substation	R		4	2022-06-24T16:52:55	2022-06-24T16:53:18	0:00:23	Devils_Lake	Eriksson_Lehmann_Gardner	Weather	Severe storm moved through. Lightning struck 4 poles
Substation	R		4	2022-08-18T03:22:21	2022-08-18T03:22:32	0:00:11	Devils_Lake	Eriksson_Lehmann_Gardner	Weather	Severe storms moved through the area
Substation	R		4	2022-09-04T07:48:30	2022-09-04T07:48:43	0:00:13	Devils_Lake	Eriksson_Lehmann_Gardner	Unknown	Unknown
Substation	R		4	2022-12-01T12:51:48	2022-12-01T14:02:37	1:10:49	Devils_Lake	Eriksson_Lehmann_Gardner	Equip Fail Fuse unknown cause	Unknown cause
Substation	R		4	2022-12-01T14:37:23	2022-12-01T15:33:51	0:56:28	Devils_Lake	Eriksson_Lehmann_Gardner	Equip Fail Fuse unknown cause	Unknown cause
Substation	R		4	2022-12-15T12:32:29	2022-12-15T13:43:37	1:11:08	Devils_Lake	Eriksson_Lehmann_Gardner	Weather	icing - blizzard with high winds
Substation	RBY		294	2022-04-24T09:08:57	2022-04-24T09:23:23	0:14:26	Devils_Lake	Bruce_Jody	Weather	Significant thunder storm/ice storm/extremely high wind event - lines slapping together, trees, icing galloping lines, broken ties, broken insulators, broken poles.
Substation	RBY		294	2022-07-19T03:26:20	2022-07-19T03:31:22	0:05:02	Devils_Lake	Bruce_Jody	Weather	Thunderstorm and heavy rain moved through the area.
Substation	RBY		294	2022-07-22T22:15:58	2022-07-22T22:17:01	0:01:03	Devils_Lake	Bruce_Jody	Weather	Storm moving through - high winds and lightning
Substation	RBY		294	2022-07-26T00:36:52	2022-07-26T00:37:55	0:01:03	Devils_Lake	Bruce_Jody	Weather	Storm cell moved through the area
Substation	RBY		294	2022-08-18T14:29:03	2022-08-18T14:29:09	0:00:06	Devils_Lake	Bruce_Jody	Weather	Severe storms moved through the area
Substation	RBY		294	2022-10-24T03:47:44	2022-10-24T03:48:01	0:00:17	Devils_Lake	Bruce_Jody	Weather	Storm system moved through the area
Substation	RBY		294	2022-12-11T16:43:32	2022-12-11T16:43:40	0:00:08	Devils_Lake	Bruce_Jody	Equip Fail Insulator	Floater due to high winds
Substation	RBY		294	2022-12-15T14:33:18	2022-12-15T14:33:27	0:00:09	Devils_Lake	Bruce_Jody	Weather	icing - blizzard with high winds
Substation	RBY		294	2022-12-15T14:43:47	2022-12-15T14:43:55	0:00:08	Devils_Lake	Bruce_Jody	Weather	icing - blizzard with high winds
Substation	RBY		294	2022-12-15T14:52:18	2022-12-15T14:52:25	0:00:07	Devils_Lake	Bruce_Jody	Weather	Icing on lines with high winds - blizzard
Substation	RBY		294	2022-12-15T15:02:14	2022-12-15T15:02:20	0:00:06	Devils_Lake	Bruce_Jody	Weather	Icing on lines with high winds - blizzard
Substation	RBY		294	2022-12-26T10:59:11	2022-12-26T10:59:41	0:00:30	Devils_Lake	Bruce_Jody	Weather	Blizzard conditions combined with icing and high winds caused excess of 100 floaters on different line sections
Substation	RBY		294	2022-12-26T11:02:45	2022-12-26T11:39:22	0:36:37	Devils_Lake	Bruce_Jody	Weather	Blizzard conditions combined with icing and high winds caused excess of 100 floaters on different line sections

Equipment ID	Equipment Type	Phase(s)	Customers	Outage Start	Outage End	Duration	Customer Service Center	Region	Cause	Notes
	Substation	RBY	294	2022-12-26T14:13:54	2022-12-26T14:38:45	0:24:51	Devils_Lake	Bruce_Jody	Weather	Blizzard conditions combined with icing and high winds caused excess of 100 floaters on different line sections
	Feeder	RBY	157	2022-01-24T19:53:07	2022-01-24T20:21:56	0:28:49	Devils_Lake	Bruce_Jody	Equip Fail Substation	Regulator failed in Substation
	Feeder	RBY	137	2022-03-15T14:12:09	2022-03-15T14:12:14	0:00:05	Devils_Lake	Bruce_Jody	Unknown	Unknown
	Feeder	RBY	137	2022-04-24T07:58:37	2022-04-24T07:58:44	0:00:07	Devils_Lake	Bruce_Jody	Weather	Significant thunder storm/ice storm/extremely high wind event - lines slapping together, trees, icing galloping lines, broken ties, broken insulators, broken poles.
	Feeder	RBY	137	2022-04-24T09:44:12	2022-04-24T10:16:51	0:32:39	Devils_Lake	Bruce_Jody	Weather	Significant thunder storm/ice storm/extremely high wind event - lines slapping together, trees, icing galloping lines, broken ties, broken insulators, broken poles.
	Feeder	RBY	137	2022-07-07T22:31:11	2022-07-07T22:31:17	0:00:06	Devils_Lake	Bruce_Jody	Unknown	Unknown
	Feeder	RBY	137	2022-07-19T03:53:24	2022-07-19T03:53:30	0:00:06	Devils_Lake	Bruce_Jody	Weather	Thunder storm and heavy rain moved through the area.
	Feeder	RBY	137	2022-12-11T15:39:53	2022-12-11T15:40:00	0:00:07	Devils_Lake	Bruce_Jody	Equip Fail Insulator	Floater due to high winds
	Substation	RBY	7	2022-04-24T09:08:43	2022-04-24T09:23:22	0:14:39	Devils_Lake	Bruce_Jody	Weather	Significant thunder storm/ice storm/extremely high wind event - lines slapping together, trees, icing galloping lines, broken ties, broken insulators, broken poles.
	Substation	RBY	7	2022-07-19T03:26:20	2022-07-19T03:31:36	0:05:16	Devils_Lake	Bruce_Jody	Weather	Thunderstorm and heavy rain moved through the area.
	Substation	RBY	7	2022-07-22T22:15:58	2022-07-22T22:17:14	0:01:16	Devils_Lake	Bruce_Jody	Weather	Storm moving through - high winds and lightning
	Substation	RBY	7	2022-07-26T00:36:52	2022-07-26T00:37:54	0:01:02	Devils_Lake	Bruce_Jody	Weather	Storm cell moved through the area
	Substation	RBY	7	2022-08-18T14:28:49	2022-08-18T14:29:49	0:01:00	Devils_Lake	Bruce_Jody	Weather	Severe storms moved through the area
	Substation	RBY	7	2022-10-24T03:47:37	2022-10-24T03:48:00	0:00:23	Devils_Lake	Bruce_Jody	Weather	Storm system moved through the area
	Substation	RBY	7	2022-12-11T16:43:17	2022-12-11T16:43:39	0:00:22	Devils_Lake	Bruce_Jody	Equip Fail Insulator	Floater due to high winds
	Substation	RBY	7	2022-12-15T14:33:03	2022-12-15T14:33:26	0:00:23	Devils_Lake	Bruce_Jody	Weather	icing - blizzard with high winds
	Substation	RBY	7	2022-12-15T14:43:32	2022-12-15T14:43:54	0:00:22	Devils_Lake	Bruce_Jody	Weather	icing - blizzard with high winds
	Substation	RBY	7	2022-12-15T14:52:03	2022-12-15T14:52:24	0:00:21	Devils_Lake	Bruce_Jody	Weather	icing - blizzard with high winds
	Substation	RBY	7	2022-12-15T15:01:58	2022-12-15T15:02:19	0:00:21	Devils_Lake	Bruce_Jody	Weather	Icing on lines with high winds - blizzard
	Substation	RBY	7	2022-12-26T10:59:19	2022-12-26T10:59:40	0:00:21	Devils_Lake	Bruce_Jody	Weather	Blizzard conditions combined with icing and high winds caused excess of 100 floaters on different line sections
	Substation	RBY	7	2022-12-26T11:02:52	2022-12-26T11:39:21	0:36:29	Devils_Lake	Bruce_Jody	Weather	Blizzard conditions combined with icing and high winds caused excess of 100 floaters on different line sections
	Substation	RBY	7	2022-12-26T14:14:01	2022-12-26T14:38:44	0:24:43	Devils_Lake	Bruce_Jody	Weather	Blizzard conditions combined with icing and high winds caused excess of 100 floaters on different line sections
	Feeder	RBY	4	2022-04-24T08:36:38	2022-04-24T08:36:59	0:00:21	Devils_Lake	Bruce_Jody	Weather	Significant thunder storm/ice storm/extremely high wind event - lines slapping together, trees, icing galloping lines, broken ties, broken insulators, broken poles.
	Feeder	RBY	4	2022-04-24T08:43:52	2022-04-24T08:44:13	0:00:21	Devils_Lake	Bruce_Jody	Weather	Significant thunder storm/ice storm/extremely high wind event - lines slapping together, trees, icing galloping lines, broken ties, broken insulators, broken poles.
	Feeder	RBY	4	2022-08-18T00:28:16	2022-08-18T00:28:37	0:00:21	Devils_Lake	Bruce_Jody	Weather	Severe storms moved through the area
	Substation	BY	42	2022-04-24T08:09:50	2022-04-24T08:14:16	0:04:26	Rugby	Klein_Travis	Weather	Severe Weather including High winds, Freezing rain, Snow and rain caused Broken poles, switches, Xarms, wire and insulators leading to multiple power outages throughout the area.
	Substation	BY	43	2022-04-24T08:14:51	2022-04-24T11:33:02	3:18:11	Rugby	Klein_Travis	Weather	Severe Weather including High winds, Freezing rain, Snow and rain caused Broken poles, switches, Xarms, wire and insulators leading to multiple power outages throughout the area. JCH audited 4/30/22
	Substation	BY	43	2022-06-24T17:26:44	2022-06-24T17:26:53	0:00:09	Rugby	Klein_Travis	Unknown	SRep could not find an exact reason for the blink.
	Substation	BY	43	2022-06-29T08:15:52	2022-06-29T08:18:39	0:02:47	Rugby	Klein_Travis	Lightning	Pole hit by lightning and ended up smoldering until it caused the wire to fall down causing outage.
	Substation	BY	43	2022-06-29T08:21:31	2022-06-29T09:13:25	0:51:54	Rugby	Klein_Travis	Lightning	Pole hit by lightning and ended up smoldering until it caused the wire to fall down causing outage.
	Substation	BR	17	2022-07-02T22:21:54	2022-07-02T22:22:01	0:00:07	Rugby	Dillow_James	Unknown	SRep could not find a reason for short blink
	Substation	BR	17	2022-07-16T03:39:19	2022-07-16T03:39:24	0:00:05	Rugby	Dillow_James	Unknown	SRep could not find an exact reason for the blink.
	Substation	RB	17	2022-08-01T08:15:49	2022-08-01T08:15:55	0:00:06	Rugby	Dillow_James	Unknown	Unknown
	Substation	BR	17	2022-08-14T03:45:31	2022-08-14T03:45:39	0:00:08	Rugby	Dillow_James	Unknown	unknown
	Substation	RB	17	2022-08-15T08:48:22	2022-08-15T08:48:31	0:00:09	Rugby	Dillow_James	Weather	Storm cell moved through the area.
	Substation	BR	17	2022-08-18T00:52:21	2022-08-18T03:15:22	2:23:01	Rugby	Dillow_James	Weather	Severe storm broke conductor and 4 insulators
	Substation	BR	17	2022-08-18T20:13:26	2022-08-18T20:13:34	0:00:08	Rugby	Dillow_James	Weather	Severe storm moved through
	Substation	BR	17	2022-10-24T02:55:34	2022-10-24T02:55:51	0:00:17	Rugby	Dillow_James	Weather	Storm system moved through the area
	Substation	RBY	29	2022-04-01T22:10:32	2022-04-01T22:57:01	0:46:29	Jamestown	Baker_Grant	Equip Fail Insulator	Insulator tracked and caused pole to burn off at the crossarm through bolt.
	Substation	RBY	29	2022-04-13T12:22:33	2022-04-13T12:22:41	0:00:08	Jamestown	Baker_Grant	Unknown	Unknown and not investigated.
	Substation	RBY	29	2022-04-17T23:41:33	2022-04-17T23:41:41	0:00:08	Jamestown	Baker_Grant	Unknown	Unknown and not patrolled.
	Substation	RBY	29	2022-04-18T00:21:08	2022-04-18T00:21:15	0:00:07	Jamestown	Baker_Grant	Unknown	Unknown and not patrolled.
	Substation	RBY	29	2022-04-22T22:18:44	2022-04-22T22:18:51	0:00:07	Jamestown	Baker_Grant	Weather	Storms in the area.

Equipment ID	Equipment Type	Phase(s)	Customers	Outage Start	Outage End	Duration	Customer Service Center	Region	Cause	Notes
	Substation	RBY	29	2022-04-22T22:42:36	2022-04-22T22:42:42	0:00:06	Jamestown	Baker_Grant	Weather	Storms in the area.
	Substation	RBY	29	2022-05-12T18:56:53	2022-05-12T18:57:00	0:00:07	Jamestown	Baker_Grant	Weather	Storms in the area.
	Substation	RBY	29	2022-06-14T05:17:16	2022-06-14T05:17:22	0:00:06	Jamestown	Baker_Grant	Weather	Storm in the area.
	Substation	RBY	29	2022-06-14T05:38:20	2022-06-14T05:38:56	0:00:36	Jamestown	Baker_Grant	Weather	Storm in the area.
	Substation	RBY	29	2022-06-24T21:15:25	2022-06-24T21:15:49	0:00:24	Jamestown	Baker_Grant	Weather	Storm in the area.
	Substation	RBY	29	2022-06-24T21:50:47	2022-06-24T21:50:53	0:00:06	Jamestown	Baker_Grant	Weather	Storm in the area.
	Substation	RBY	29	2022-06-29T23:31:59	2022-06-29T23:32:07	0:00:08	Jamestown	Baker_Grant	Vegetation	Tree blew over in the storm and caused downed conductor near 501 2nd Ave, Berlin.
	Substation	RBY	29	2022-06-29T23:33:43	2022-06-30T01:28:19	1:54:36	Jamestown	Baker_Grant	Vegetation	Tree blew over in the storm and caused downed conductor near 501 2nd Ave, Berlin.
	Substation	RBY	29	2022-11-06T11:37:05	2022-11-06T11:37:11	0:00:06	Jamestown	Baker_Grant	Weather	Strong winds with flying debris.
	Substation	RBY	29	2022-11-09T18:49:18	2022-11-09T20:12:51	1:23:33	Jamestown	Baker_Grant	Weather	Galloping lines caused by freezing rain and windy conditions.
	Substation	RBY	29	2022-11-09T20:56:35	2022-11-09T20:56:43	0:00:08	Jamestown	Baker_Grant	Weather	Galloping lines caused by freezing rain and windy conditions.
	Substation	RBY	29	2022-11-09T21:38:27	2022-11-09T21:41:37	0:03:10	Jamestown	Baker_Grant	Weather	Galloping lines caused by freezing rain and windy conditions.
	Substation	R	12	2022-07-10T04:58:31	2022-07-10T04:58:39	0:00:08	Rugby	Rugby	Weather	Storms rolled through the area causing damage throughout its path. rain, lightning and high winds
	Substation	R	12	2022-07-22T21:59:28	2022-07-22T22:07:23	0:07:55	Rugby	Rugby	Weather	Storm moving through - high winds and lightning
	Substation	R	12	2022-07-25T23:36:22	2022-07-25T23:37:25	0:01:03	Rugby	Rugby	Weather	Storm cell moved through the area.
	Substation	R	12	2022-07-25T23:45:38	2022-07-25T23:45:45	0:00:07	Rugby	Rugby	Weather	Storm cell moved through the area.
	Substation	R	12	2022-07-26T00:02:37	2022-07-26T00:02:43	0:00:06	Rugby	Rugby	Weather	Storm cell moved through the area.
	Substation	BRY	165	2022-05-12T20:20:05	2022-05-12T20:20:22	0:00:17	Devils_Lake	Foss_Jerry	Weather	Storm system moved through with high wind, heavy rains and lightning.
	Substation	BRY	269	2022-06-09T13:42:02	2022-06-10T13:11:31	23:29:29	Devils_Lake	Foss_Jerry	other	Customer Fire burned a 12.5kv pole up. JCH audited 6/28/2022
	Substation	RBY	165	2022-06-14T06:30:21	2022-06-14T06:30:31	0:00:10	Devils_Lake	Foss_Jerry	Weather	Severe thunderstorm moved through the area with high winds and lightning
	Substation	Y	40	2022-06-14T07:10:00	2022-06-14T07:10:07	0:00:07	Devils_Lake	Foss_Jerry	Weather	Severe thunderstorm moved through the area with high winds and lightning
	Substation	BRY	166	2022-08-19T18:57:44	2022-08-19T18:57:56	0:00:12	Devils_Lake	Foss_Jerry	Unknown	Unknown
	Substation	BRY	166	2022-12-09T21:54:22	2022-12-10T01:08:03	3:13:41	Devils_Lake	Foss_Jerry	Equip Fail Insulator	Broken insulator - floater
	FeederSection	BRY	3	2022-04-01T21:33:46	2022-04-01T23:14:51	1:41:05	Devils_Lake	Bruce_Jody	Equip Fail Conductor	Broken splice on conductor
	FeederSection	BR	2	2022-04-02T00:15:37	2022-04-02T00:15:55	0:00:18	Devils_Lake	Bruce_Jody	Unknown	Unknown
	FeederSection	Y	1	2022-04-02T00:15:58	2022-04-02T00:16:12	0:00:14	Devils_Lake	Bruce_Jody	Unknown	Unknown
	FeederSection	R	1	2022-07-19T04:04:20	2022-07-19T04:04:27	0:00:07	Devils_Lake	Bruce_Jody	Weather	Thunder storm and heavy rain moved through the area.
	FeederSection	R	1	2022-07-19T04:07:01	2022-07-19T04:07:07	0:00:06	Devils_Lake	Bruce_Jody	Weather	Thunder storm and heavy rain moved through the area.
	FeederSection	R	1	2022-07-19T04:07:46	2022-07-19T04:07:49	0:00:03	Devils_Lake	Bruce_Jody	Weather	Thunder storm and heavy rain moved through the area.
	FeederSection	Y	1	2022-07-22T22:20:07	2022-07-22T22:20:13	0:00:06	Devils_Lake	Bruce_Jody	Weather	Storm moving through - high winds and lightning
	FeederSection	BRY	3	2022-10-26T16:46:28	2022-10-26T17:33:31	0:47:03	Devils_Lake	Bruce_Jody	Equip Fail Other	Broken crossarm
	FeederSection	Y	1	2022-12-11T14:17:46	2022-12-11T14:17:52	0:00:06	Devils_Lake	Bruce_Jody	Equip Fail Insulator	Floater due to high winds
	FeederSection	Y	1	2022-12-11T14:29:33	2022-12-11T14:29:38	0:00:05	Devils_Lake	Bruce_Jody	Equip Fail Insulator	Floater due to high winds
	FeederSection	Y	1	2022-12-11T14:45:01	2022-12-11T14:45:06	0:00:05	Devils_Lake	Bruce_Jody	Equip Fail Insulator	Floater due to high winds
	FeederSection	Y	1	2022-12-11T15:42:24	2022-12-11T15:42:30	0:00:06	Devils_Lake	Bruce_Jody	Equip Fail Insulator	Floater due to high winds
	FeederSection	BRY	3	2022-12-30T17:25:34	2022-12-30T17:33:39	0:08:05	Devils_Lake	Bruce_Jody	Equip Fail Insulator	Floater due to high winds
	FeederSection	BRY	3	2022-12-30T18:17:46	2022-12-30T18:19:16	0:01:30	Devils_Lake	Bruce_Jody	Equip Fail Insulator	Floater due to high winds
	Substation	RBY	49	2022-01-01T23:13:02	2022-01-01T23:17:33	0:04:31	Jamestown	Hoggarth_Tyler	Equip Fail Conductor	Broken phase between Courtney to Courtney Jct 293.
	Substation	RBY	49	2022-02-01T00:02:15	2022-02-01T00:03:18	0:01:03	Jamestown	Hoggarth_Tyler	Equip Fail Insulator	Broken insulator between Jamestown 345 kv sub and Hwy 20 and a broken tie between Courtenay Jct and Courtenay.
	Substation	RBY	49	2022-02-01T00:04:26	2022-02-01T00:04:52	0:00:26	Jamestown	Hoggarth_Tyler	Equip Fail Insulator	Broken insulator between Jamestown 345 kv sub and Hwy 20 and a broken tie between Courtenay Jct and Courtenay.
	Substation	RBY	49	2022-02-01T00:05:39	2022-02-01T00:07:21	0:01:42	Jamestown	Hoggarth_Tyler	Equip Fail Insulator	Broken insulator between Jamestown 345 kv sub and Hwy 20 and a broken tie between Courtenay Jct and Courtenay.
	Substation	RBY	49	2022-02-01T00:07:52	2022-02-01T00:09:26	0:01:34	Jamestown	Hoggarth_Tyler	Equip Fail Insulator	Broken insulator between Jamestown 345 kv sub and Hwy 20 and a broken tie between Courtenay Jct and Courtenay.
	Substation	RBY	49	2022-02-01T04:19:16	2022-02-01T04:20:19	0:01:03	Jamestown	Hoggarth_Tyler	Equip Fail Insulator	Broken insulator between Jamestown 345 kv sub and Hwy 20 and a broken tie between Courtenay Jct and Courtenay.
	Substation	RBY	49	2022-02-01T04:20:58	2022-02-01T04:28:28	0:07:30	Jamestown	Hoggarth_Tyler	Equip Fail Insulator	Broken insulator between Jamestown 345 kv sub and Hwy 20 and a broken tie between Courtenay Jct and Courtenay.
	Substation	RBY	49	2022-02-01T07:15:28	2022-02-01T08:23:19	1:07:51	Jamestown	Hoggarth_Tyler	Equip Fail Conductor	Broken copper conductor north of Kensal. Replaced 3 xarms, 6 insulators and spliced conductor.
	Substation	RBY	49	2022-03-03T02:58:42	2022-03-03T02:59:01	0:00:19	Jamestown	Hoggarth_Tyler	Planned	Planned outage for switching transmission line.
	Substation	RBY	49	2022-04-20T20:41:03	2022-04-20T20:41:09	0:00:06	Jamestown	Hoggarth_Tyler	Unknown	SEL 2 miles north of Kensal. Unknown and not investigated at this time.
	Substation	RBY	49	2022-05-04T13:42:34	2022-05-04T13:48:47	0:06:13	Jamestown	Hoggarth_Tyler	Equip Fail Insulator	41.6 kv horizontal insulator failed in the Kensal area.
	Substation	RBY	49	2022-06-14T07:25:29	2022-06-14T09:23:48	1:58:19	Jamestown	Hoggarth_Tyler	Weather	Bordulac OCR was open due to storm in the area. No other cause found.

Equipment ID	Equipment Type	Phase(s)	Customers	Outage Start	Outage End	Duration	Customer Service Center	Region	Cause	Notes
Substation	RBY	49	2022-06-15T18:47:51	2022-06-15T18:54:24	0:06:33	Jamestown	Hoggarth_Tyler	other	Bitcoin had construction insulation blow into the bus on their side of the line.	
Substation	RBY	49	2022-06-19T22:21:37	2022-06-19T22:22:45	0:01:08	Jamestown	Hoggarth_Tyler	Vegetation	Trees on the line due to storm in the area.	
Substation	RBY	49	2022-06-24T18:52:48	2022-06-24T18:52:56	0:00:08	Jamestown	Hoggarth_Tyler	Weather	Storm in the area.	
Substation	RBY	49	2022-07-05T23:57:53	2022-07-05T23:58:01	0:00:08	Jamestown	Hoggarth_Tyler	Animal	Raccoon got into the Courtenay sub and blew all 3 high side fuses.	
Substation	RBY	49	2022-08-28T06:35:23	2022-08-28T06:35:29	0:00:06	Jamestown	Hoggarth_Tyler	Weather	Lightning storm in the area. Line patrolled per SEL data, but nothing found.	
Substation	RBY	49	2022-10-07T04:55:39	2022-10-07T04:55:56	0:00:17	Jamestown	Hoggarth_Tyler	Unknown	Investigated but cause unknown.	
Substation	RBY	423	2022-04-23T17:51:34	2022-04-23T17:51:50	0:00:16	Rugby	Derr_John	Weather	Severe Weather including High winds, Freezing rain, Snow and rain caused Broken poles, switches, Xarms, wire and insulators leading to multiple power outages throughout the area.	
Substation	RBY	423	2022-07-22T21:07:25	2022-07-22T21:07:42	0:00:17	Rugby	Derr_John	Weather	Storm moving through - high winds and lightning	
Substation	RBY	423	2022-07-22T21:30:14	2022-07-22T21:30:31	0:00:17	Rugby	Derr_John	Weather	Storm moving through - high winds and lightning	
Substation	RBY	423	2022-08-23T18:14:08	2022-08-23T18:14:26	0:00:18	Rugby	Derr_John	Unknown	Unknown.	
Substation	RBY	423	2022-08-23T18:17:03	2022-08-23T18:17:22	0:00:19	Rugby	Derr_John	Unknown	Unknown.	
Substation	RBY	423	2022-09-14T11:44:14	2022-09-14T11:44:31	0:00:17	Rugby	Derr_John	Unknown	Unknown	
Feeder	RBY	404	2022-04-23T17:32:18	2022-04-23T17:32:31	0:00:13	Rugby	Derr_John	Weather	Severe Weather including High winds, Freezing rain, Snow and rain caused Broken poles, switches, Xarms, wire and insulators leading to multiple power outages throughout the area.	
Feeder	RBY	404	2022-04-23T17:46:28	2022-04-23T17:52:43	0:06:15	Rugby	Derr_John	Weather	Severe Weather including High winds, Freezing rain, Snow and rain caused Broken poles, switches, Xarms, wire and insulators leading to multiple power outages throughout the area.	
Feeder	RBY	404	2022-07-01T16:49:37	2022-07-01T16:49:42	0:00:05	Rugby	Derr_John	Unknown	SRep could not find an exact reason for the blink.	
Feeder	RBY	404	2022-08-23T18:16:57	2022-08-23T18:17:05	0:00:08	Rugby	Derr_John	Unknown	Unknown.	
Feeder	RBY	371	2022-04-23T15:08:57	2022-04-23T15:09:14	0:00:17	Rugby	Derr_John	Weather	Severe Weather including High winds, Freezing rain, Snow and rain caused Broken poles, switches, Xarms, wire and insulators leading to multiple power outages throughout the area.	
Feeder	RBY	371	2022-04-23T17:40:12	2022-04-23T17:40:17	0:00:05	Rugby	Derr_John	Weather	Severe Weather including High winds, Freezing rain, Snow and rain caused Broken poles, switches, Xarms, wire and insulators leading to multiple power outages throughout the area.	
Feeder	RBY	371	2022-09-23T18:08:32	2022-09-23T18:08:38	0:00:06	Rugby	Derr_John	Unknown	Unknown	
Substation	RBY	139	2022-02-01T02:31:34	2022-02-01T02:33:37	0:02:03	Rugby	Rath_Todd	Weather	Icy rain caused a transmission issue and the 2 minutes was due to some switching	
Substation	RBY	139	2022-04-23T15:28:54	2022-04-23T15:29:19	0:00:25	Rugby	Rath_Todd	Weather	Severe Weather including High winds, Freezing rain, Snow and rain caused Broken poles, switches, Xarms, wire and insulators leading to multiple power outages throughout the area.	
Substation	RBY	139	2022-05-09T01:14:41	2022-05-09T01:14:46	0:00:05	Rugby	Rath_Todd	Weather	Stormy weather rolled through the area with lightning and heavy winds.	
Substation	RBY	139	2022-06-14T04:55:23	2022-06-14T04:55:30	0:00:07	Rugby	Rath_Todd	Weather	Stormy weather with high winds traveled through the CSC causing blinks	
Substation	RBY	139	2022-06-14T04:58:13	2022-06-14T04:58:19	0:00:06	Rugby	Rath_Todd	Weather	Stormy weather with high winds traveled through the CSC causing blinks	
Substation	RBY	139	2022-07-10T06:10:28	2022-07-10T06:10:37	0:00:09	Rugby	Rath_Todd	Weather	Storms rolled through the area causing damage throughout its path.	
Substation	RBY	139	2022-07-23T10:00:33	2022-07-23T10:00:39	0:00:06	Rugby	Rath_Todd	Unknown	rain, lightning and high winds	
Substation	RBY	139	2022-08-02T20:03:57	2022-08-02T20:04:04	0:00:07	Rugby	Rath_Todd	Unknown	Unknown	
Substation	RBY	139	2022-08-15T11:16:45	2022-08-15T11:16:51	0:00:06	Rugby	Rath_Todd	Weather	Storm cell moved through the area.	
Substation	RBY	139	2022-08-26T15:32:18	2022-08-26T15:32:24	0:00:06	Rugby	Rath_Todd	Unknown	Unknown	
Substation	RBY	139	2022-09-14T13:15:16	2022-09-14T13:15:23	0:00:07	Rugby	Rath_Todd	Unknown	Unknown	
Substation	RBY	139	2022-11-01T07:51:22	2022-11-01T09:33:35	1:42:13	Rugby	Rath_Todd	Equip Fail Arrester	Failed Arrester	
Substation	RBY	139	2022-11-12T08:01:17	2022-11-12T08:03:49	0:02:32	Rugby	Rath_Todd	Weather	Icing and wind	
Substation	RBY	139	2022-12-12T08:30:53	2022-12-12T08:31:02	0:00:09	Rugby	Rath_Todd	Equip Fail Pole	Broken pole	
Substation	RBY	139	2022-12-12T10:02:12	2022-12-12T10:02:20	0:00:08	Rugby	Rath_Todd	Equip Fail Pole	Broken pole	
Substation	RBY	139	2022-12-12T10:08:32	2022-12-12T12:00:05	1:51:33	Rugby	Rath_Todd	Equip Fail Pole	Broken pole	
Substation	RBY	139	2022-12-15T13:14:15	2022-12-15T13:14:22	0:00:07	Rugby	Rath_Todd	Weather	Icing conditions high winds/blizzard	
Substation	RBY	139	2022-12-16T04:58:48	2022-12-16T05:03:34	0:04:46	Rugby	Rath_Todd	Weather	Icing conditions high winds/blizzard	
Substation	RY	17	2022-05-12T21:17:15	2022-05-12T21:17:31	0:00:16	Devils_Lake	Chase_Scott	Weather	Storm system moved through with high wind, heavy rains and lightning.	
Substation	RY	17	2022-05-13T10:55:37	2022-05-13T10:55:56	0:00:19	Devils_Lake	Chase_Scott	Vegetation	Due to high winds, evergreens near Brinsmade fell into 41.6kv line.	
Substation	RY	17	2022-05-13T12:38:50	2022-05-13T12:40:53	0:02:03	Devils_Lake	Chase_Scott	Vegetation	Due to high winds, evergreens near Brinsmade fell into 41.6kv line.	
Substation	RY	17	2022-05-13T12:44:00	2022-05-13T14:00:25	1:16:25	Devils_Lake	Chase_Scott	Weather	Due to high winds evergreens near Brinsmade fell into 41.6kv line again.	

Equipment ID	Equipment Type	Phase(s)	Customers	Outage Start	Outage End	Duration	Customer Service Center	Region	Cause	Notes
	Substation	RY	17	2022-05-17T10:27:12	2022-05-17T10:27:28	0:00:16	Devils_Lake	Chase_Scott	Unknown	Unknown
	Substation	RY	17	2022-06-20T03:51:04	2022-06-20T03:51:17	0:00:13	Devils_Lake	Chase_Scott	Weather	Storm moved through the area.
	Substation	RY	17	2022-07-10T06:07:05	2022-07-10T06:11:25	0:04:20	Devils_Lake	Chase_Scott	Equip Fail Pole	Four broken transmission poles with underbuild due to storm
	Substation	RY	17	2022-07-10T06:22:02	2022-07-10T07:44:31	1:22:29	Devils_Lake	Chase_Scott	Equip Fail Pole	Four broken transmission poles with underbuild due to storm
	Substation	RY	17	2022-07-22T22:47:27	2022-07-22T22:47:44	0:00:17	Devils_Lake	Chase_Scott	Weather	Storm moving through - high winds and lightning
	Substation	RY	17	2022-08-15T10:30:04	2022-08-15T10:30:22	0:00:18	Devils_Lake	Chase_Scott	Weather	Storm moved through area.
	Substation	RY	17	2022-09-14T17:58:28	2022-09-14T18:26:39	0:28:11	Devils_Lake	Chase_Scott	Equip Fail Pole	Pole broken on 41.6kv line
	Substation	RBY	17	2022-05-12T21:17:15	2022-05-12T21:17:23	0:00:08	Devils_Lake	Chase_Scott	Weather	Storm system moved through with high wind, heavy rains and lightning.
	Substation	RBY	17	2022-05-13T10:55:38	2022-05-13T10:55:49	0:00:11	Devils_Lake	Chase_Scott	Vegetation	Due to high winds, evergreens near Brinsmade fell into 41.6kv line.
	Substation	RBY	17	2022-05-13T12:38:51	2022-05-13T12:40:43	0:01:52	Devils_Lake	Chase_Scott	Vegetation	Due to high winds, evergreens near Brinsmade fell into 41.6kv line.
	Substation	RBY	17	2022-05-13T12:44:01	2022-05-13T14:04:12	1:20:11	Devils_Lake	Chase_Scott	Weather	Due to high winds, evergreens near Brinsmade fell into 41.6kv line again.
	Substation	RBY	17	2022-06-20T03:51:00	2022-06-20T03:51:08	0:00:08	Devils_Lake	Chase_Scott	Weather	Storm moved through the area.
	Substation	RBY	17	2022-07-10T06:07:13	2022-07-10T06:11:26	0:04:13	Devils_Lake	Chase_Scott	Equip Fail Pole	Four broken transmission poles with underbuild due to storm
	Substation	RBY	17	2022-07-10T06:22:13	2022-07-10T07:44:31	1:22:18	Devils_Lake	Chase_Scott	Equip Fail Pole	Four broken transmission poles with underbuild due to storm
	Substation	RBY	17	2022-07-22T22:47:38	2022-07-22T22:47:45	0:00:07	Devils_Lake	Chase_Scott	Weather	Storm moving through - high winds and lightning
	Substation	RBY	17	2022-08-15T10:30:05	2022-08-15T10:30:10	0:00:05	Devils_Lake	Chase_Scott	Weather	Storm moved through area.
	Substation	RBY	17	2022-09-14T17:58:36	2022-09-14T18:26:39	0:28:03	Devils_Lake	Chase_Scott	Equip Fail Pole	Pole broken on 41.6kv line
	Substation	RBY	178	2022-07-01T10:51:04	2022-07-01T10:51:10	0:00:06	Jamestown	Erickson_Joe	Bird	Bird contact blew high side fuse in Oriska sub.
	Substation	RBY	178	2022-07-10T12:19:26	2022-07-10T12:19:31	0:00:05	Jamestown	Erickson_Joe	Weather	Storms with strong winds, rain, lightning.
	Substation	RBY	178	2022-07-17T09:31:55	2022-07-17T09:31:59	0:00:04	Jamestown	Erickson_Joe	Bird	Blown high side fuse in the Absaraka sub caused by a bird.
	Substation	RBY	178	2022-10-05T16:17:09	2022-10-05T16:17:13	0:00:04	Jamestown	Erickson_Joe	Equip Fail Substation	Lightning strike blew high side fuse in Fingal Jct Sub, which also burned up several distribution insulators in the sub. Another high side disconnect spring failed. Replacing all 3 high side disconnects.
	Substation	RBY	178	2022-11-09T22:49:26	2022-11-10T00:17:37	1:28:11	Jamestown	Erickson_Joe	Weather	Broken ties caused by galloping lines due to freezing rain and windy conditions.
	Substation	RBY	178	2022-12-07T17:44:10	2022-12-07T19:29:36	1:45:26	Jamestown	Erickson_Joe	Equip Fail Conductor	Failed splice on transmission between Buffalo 345 sub and Minnkota Tower City tap.
	Substation	RBY	178	2022-12-13T11:44:19	2022-12-13T11:44:25	0:00:06	Jamestown	Erickson_Joe	Equip Fail Pole	Broken transmission pole in a slough between Oriska Sub and Fingal Jct Sub.
	Substation	RBY	178	2022-12-13T11:46:55	2022-12-13T12:41:51	0:54:56	Jamestown	Erickson_Joe	Equip Fail Pole	Broken transmission pole in a slough between Oriska Sub and Fingal Jct Sub.
	Substation	RBY	130	2022-04-18T00:39:30	2022-04-18T00:39:36	0:00:06	Devils_Lake	Ramberg_Jason	Unknown	unknown
	Substation	RBY	130	2022-04-24T10:02:48	2022-04-24T10:02:56	0:00:08	Devils_Lake	Ramberg_Jason	Weather	Significant thunder storm/ice storm/extremely high wind event - lines slapping together, trees, icing galloping lines, broken ties, broken insulators, broken poles.
	Substation	RBY	130	2022-04-24T10:05:32	2022-04-24T14:31:28	4:25:56	Devils_Lake	Ramberg_Jason	Weather	Significant thunder storm/ice storm/extremely high wind event - lines slapping together, trees, icing galloping lines, broken ties, broken insulators, broken poles.
	Substation	RBY	130	2022-05-04T13:38:34	2022-05-04T13:38:40	0:00:06	Devils_Lake	Ramberg_Jason	Unknown	Unknown
	Substation	RBY	130	2022-05-29T09:54:52	2022-05-29T11:50:24	1:55:32	Devils_Lake	Ramberg_Jason	Equip Fail Insulator	Insulator tracked across burning cross arm off.
	Substation	RBY	130	2022-06-14T01:16:19	2022-06-14T01:16:26	0:00:07	Devils_Lake	Ramberg_Jason	Weather	Severe thunderstorm moved through the area with high winds and lightning
	Substation	RBY	130	2022-07-09T21:21:12	2022-07-09T21:21:24	0:00:12	Devils_Lake	Ramberg_Jason	Unknown	Unknown
	Substation	RBY	130	2022-07-15T20:18:32	2022-07-15T20:18:38	0:00:06	Devils_Lake	Ramberg_Jason	Unknown	Unknown
	Substation	RBY	130	2022-07-18T03:20:58	2022-07-18T03:21:05	0:00:07	Devils_Lake	Ramberg_Jason	Weather	Weather system moved through with wind and lightning
	Substation	RBY	130	2022-07-18T03:32:08	2022-07-18T03:32:15	0:00:07	Devils_Lake	Ramberg_Jason	Weather	Weather system moved through with wind and lightning
	Substation	RBY	130	2022-07-18T03:39:52	2022-07-18T03:39:59	0:00:07	Devils_Lake	Ramberg_Jason	Weather	Weather system moved through with wind and lightning
	Substation	RBY	130	2022-07-19T04:26:20	2022-07-19T04:26:34	0:00:14	Devils_Lake	Ramberg_Jason	Weather	Thunder storm and heavy rain moved through the area.
	Substation	RBY	130	2022-07-19T15:55:31	2022-07-19T15:55:46	0:00:15	Devils_Lake	Ramberg_Jason	Weather	Thunder storm and heavy rain moved through the area.
	Substation	RBY	130	2022-07-19T15:57:10	2022-07-19T15:57:16	0:00:06	Devils_Lake	Ramberg_Jason	Weather	Thunder storm and heavy rain moved through the area.
	Substation	RBY	130	2022-07-22T23:39:06	2022-07-23T00:43:50	1:04:44	Devils_Lake	Ramberg_Jason	Lightning	Lightning struck Minnkota 115kv substation that feeds Langdon. Issues with breaker
	Substation	RBY	130	2022-08-05T07:43:48	2022-08-05T07:43:54	0:00:06	Devils_Lake	Ramberg_Jason	Unknown	Unknown
	Substation	RBY	130	2022-08-18T01:12:31	2022-08-18T01:12:43	0:00:12	Devils_Lake	Ramberg_Jason	Weather	Severe storms moved through the area
	Substation	RBY	130	2022-10-24T02:54:11	2022-10-24T02:54:18	0:00:07	Devils_Lake	Ramberg_Jason	Weather	Storm system moved through the area
	Substation	RBY	130	2022-10-24T02:57:51	2022-10-24T02:57:57	0:00:06	Devils_Lake	Ramberg_Jason	Weather	Storm system moved through the area
	Substation	RBY	130	2022-11-08T08:57:57	2022-11-08T08:58:05	0:00:08	Devils_Lake	Ramberg_Jason	Unknown	Unknown
	Substation	RBY	130	2022-12-12T10:00:39	2022-12-12T10:01:14	0:00:35	Devils_Lake	Ramberg_Jason	Equip Fail Substation	Breaker failed in substation

Equipment ID	Equipment Type	Phase(s)	Customers	Outage Start	Outage End	Duration	Customer Service Center	Region	Cause	Notes
	Substation	Y	1	2022-04-24T00:27:10	2022-04-24T01:41:42	1:14:32	Rugby	Derr_John	Weather	Severe Weather including High winds, Freezing rain, Snow and rain caused Broken poles, switches, Xarms, wire and insulators leading to multiple power outages throughout the area.
	Substation	Y	1	2022-05-09T09:10:49	2022-05-09T09:10:59	0:00:10	Rugby	Derr_John	Weather	Stormy weather rolled through the area with lightning and heavy winds.
	Substation	Y	1	2022-07-06T09:30:00	2022-07-06T09:30:05	0:00:05	Rugby	Derr_John	Equip Fail Cutout	Highside cutout failed and needed to be fixed
	Substation	Y	1	2022-07-10T20:55:25	2022-07-10T20:55:29	0:00:04	Rugby	Derr_John	Weather	Storms rolled through the area causing damage throughout its path. rain, lightning and high winds
	Substation	Y	1	2022-07-10T21:01:02	2022-07-10T21:01:08	0:00:06	Rugby	Derr_John	Weather	Storms rolled through the area causing damage throughout its path. rain, lightning and high winds
	Substation	Y	1	2022-07-21T21:27:23	2022-07-21T21:27:49	0:00:26	Rugby	Derr_John	Unknown	Unknown
	Substation	Y	1	2022-07-22T20:59:16	2022-07-22T20:59:35	0:00:19	Rugby	Derr_John	Weather	Storm moving through - high winds and lightning
	Substation	Y	1	2022-07-22T21:13:35	2022-07-22T21:13:42	0:00:07	Rugby	Derr_John	Weather	Storm moving through - high winds and lightning
	Substation	Y	1	2022-09-07T07:13:38	2022-09-07T08:04:56	0:51:18	Rugby	Derr_John	Equip Fail Conductor	Broken Jumper
	Substation	Y	1	2022-09-07T10:33:28	2022-09-07T10:33:34	0:00:06	Rugby	Derr_John	Equip Fail Conductor	Broken Jumper
	Substation	RBY	1	2022-11-09T18:30:45	2022-11-09T18:31:06	0:00:21	Wahpeton	Hoye_Jeff	Weather	Ice buildup caused the line to gallop and make contact phase to phase multiple times.
	Substation	RBY	1	2022-11-09T18:32:23	2022-11-10T08:57:06	14:24:43	Wahpeton	Hoye_Jeff	Weather	Ice buildup caused the line to gallop and make contact phase to phase multiple times. JCH Audited 11/29/22
	Substation	RBY	1	2022-11-10T09:44:14	2022-11-10T09:44:24	0:00:10	Wahpeton	Hoye_Jeff	Weather	Ice on lines caused multiple outages.
	Substation	RBY	1	2022-11-10T09:44:58	2022-11-10T09:45:02	0:00:04	Wahpeton	Hoye_Jeff	Weather	Ice on lines caused multiple outages
	Feeder	BRY	290	2022-01-20T09:26:29	2022-01-20T09:26:52	0:00:23	Wahpeton	Hoye_Jeff	Equip Fail Underground	UG fault on old wire
	Feeder	RY	198	2022-01-20T11:09:50	2022-01-20T11:09:59	0:00:09	Wahpeton	Hoye_Jeff	Equip Fail Underground	UG fault on old wire
	Feeder	B	92	2022-01-20T11:10:05	2022-01-20T11:10:14	0:00:09	Wahpeton	Hoye_Jeff	Equip Fail Underground	UG fault on old wire
	Feeder	R	103	2022-02-28T09:17:09	2022-02-28T09:43:35	0:26:26	Wahpeton	Hoye_Jeff	Equip Fail Insulator	Cracked insulator took the fuse in Sub.
	Feeder	BRY	289	2022-04-23T02:35:32	2022-04-23T02:35:54	0:00:22	Wahpeton	Hoye_Jeff	Weather	High Winds and storms in the area.
	Feeder	BRY	290	2022-04-29T14:41:43	2022-04-29T14:43:46	0:02:03	Wahpeton	Hoye_Jeff	Unknown	phase to phase contact on 115 near Casselton
	Feeder	BRY	289	2022-07-18T18:50:05	2022-07-18T18:50:17	0:00:12	Wahpeton	Hoye_Jeff	Equip Fail Underground	UG fault in line, line has since been replaced.
	Feeder	BRY	288	2022-07-18T20:25:27	2022-07-18T20:25:40	0:00:13	Wahpeton	Hoye_Jeff	Equip Fail Underground	UG fault in line, line has since been replaced.
	Feeder	BRY	290	2022-08-23T18:39:31	2022-08-23T19:10:40	0:31:09	Wahpeton	Hoye_Jeff	Equip Fail Insulator	Top insulator burnt off and caused the outage
	Feeder	BRY	290	2022-10-17T18:51:33	2022-10-17T19:57:15	1:05:42	Wahpeton	Hoye_Jeff	Unknown	Everything was patrolled and we did not find anything that would cause the breaker to trip.
	Feeder	BRY	290	2022-11-09T18:30:49	2022-11-09T19:01:42	0:30:53	Wahpeton	Hoye_Jeff	Weather	Ice on lines caused multiple outages.
	Feeder	BRY	290	2022-11-09T19:14:51	2022-11-09T19:15:47	0:00:56	Wahpeton	Hoye_Jeff	Weather	Ice on lines caused multiple outages.
	Feeder	BRY	288	2022-11-09T19:16:07	2022-11-09T19:29:57	0:13:50	Wahpeton	Hoye_Jeff	Weather	Ice on lines caused multiple outages.
	Feeder	BRY	289	2022-11-09T19:30:26	2022-11-09T20:14:07	0:43:41	Wahpeton	Hoye_Jeff	Weather	Ice on lines caused multiple outages.
	Feeder	BRY	285	2022-11-09T20:52:00	2022-11-09T20:52:23	0:00:23	Wahpeton	Hoye_Jeff	Weather	Ice on lines caused multiple outages.
	Feeder	BRY	290	2022-12-13T04:54:19	2022-12-13T05:39:58	0:45:39	Wahpeton	Hoye_Jeff	Equip Fail Substation	Breaker in Sub is bad so had to open and take out of service.
	Feeder	BRY	290	2022-12-14T10:39:28	2022-12-14T10:40:40	0:01:12	Wahpeton	Hoye_Jeff	Equip Fail Substation	planned outage for replacing breaker from previous evening.
	Feeder	RBY	304	2022-04-23T02:35:48	2022-04-23T02:35:54	0:00:06	Wahpeton	Hoye_Jeff	Weather	High Winds and storms in the area.
	Feeder	RBY	304	2022-04-29T14:42:00	2022-04-29T14:43:45	0:01:45	Wahpeton	Hoye_Jeff	Unknown	phase to phase contact on 115 near Casselton
	Feeder	RBY	304	2022-06-30T06:37:15	2022-06-30T06:38:20	0:01:05	Wahpeton	Hoye_Jeff	Animal	Squirrel on transformer
	Feeder	RBY	304	2022-08-23T18:39:42	2022-08-23T19:10:38	0:30:56	Wahpeton	Hoye_Jeff	Equip Fail Insulator	Top insulator burnt off and caused the outage
	Feeder	RBY	304	2022-09-09T08:04:17	2022-09-09T08:04:23	0:00:06	Wahpeton	Hoye_Jeff	Animal	Squirrel on transformer
	Feeder	RBY	304	2022-09-15T08:01:59	2022-09-15T08:02:07	0:00:08	Wahpeton	Hoye_Jeff	Animal	Squirrel on transformer
	Feeder	RBY	304	2022-10-01T12:30:29	2022-10-01T12:30:35	0:00:06	Wahpeton	Hoye_Jeff	Animal	Squirrel on transformer pole in Casselton
	Feeder	RBY	304	2022-10-14T16:37:01	2022-10-14T16:37:05	0:00:04	Wahpeton	Hoye_Jeff	Unknown	Everything was patrolled and we did not find out what caused the breaker to operate.
	Feeder	RBY	304	2022-10-17T18:52:06	2022-10-17T19:57:43	1:05:37	Wahpeton	Hoye_Jeff	Unknown	Everything was patrolled and we did not find anything that would cause the breaker to trip.
	Feeder	RBY	304	2022-11-06T13:18:57	2022-11-06T13:19:03	0:00:06	Wahpeton	Hoye_Jeff	Unknown	No customer calls.
	Feeder	RBY	304	2022-11-09T18:31:02	2022-11-09T19:01:40	0:30:38	Wahpeton	Hoye_Jeff	Weather	Ice on lines caused multiple outages.
	Feeder	RBY	304	2022-11-09T19:15:05	2022-11-09T19:15:45	0:00:40	Wahpeton	Hoye_Jeff	Weather	Ice on lines caused multiple outages.
	Feeder	RBY	304	2022-11-09T19:16:26	2022-11-09T19:29:54	0:13:28	Wahpeton	Hoye_Jeff	Weather	Ice on lines caused multiple outages.
	Feeder	RBY	304	2022-11-09T19:30:41	2022-11-09T20:14:05	0:43:24	Wahpeton	Hoye_Jeff	Weather	Ice on lines caused multiple outages.
	Feeder	RBY	304	2022-11-09T20:52:14	2022-11-09T20:52:20	0:00:06	Wahpeton	Hoye_Jeff	Weather	Ice on lines caused multiple outages.
	Feeder	RBY	304	2022-12-13T04:54:32	2022-12-13T05:39:55	0:45:23	Wahpeton	Hoye_Jeff	Equip Fail Substation	Breaker in Sub is bad so had to open and take out of service.
	Feeder	RBY	304	2022-12-14T10:39:41	2022-12-14T10:39:45	0:00:04	Wahpeton	Hoye_Jeff	Equip Fail Substation	planned outage for replacing breaker from previous evening.
	Feeder	RBY	22	2022-04-23T02:35:32	2022-04-23T02:35:55	0:00:23	Wahpeton	Hoye_Jeff	Weather	High Winds and storms in the area.
	Feeder	RBY	22	2022-04-29T14:41:42	2022-04-29T14:43:46	0:02:04	Wahpeton	Hoye_Jeff	Unknown	phase to phase contact on 115 near Casselton

Equipment ID	Equipment Type	Phase(s)	Customers	Outage Start	Outage End	Duration	Customer Service Center	Region	Cause	Notes
	Feeder	RBY	22	2022-08-23T18:39:24	2022-08-23T19:10:38	0:31:14	Wahpeton	Hoye_Jeff	Equip Fail Insulator	Top insulator burnt off and caused the outage Everything was patrolled and we did not find anything that would cause the breaker to trip.
	Feeder	RBY	22	2022-10-17T18:51:38	2022-10-17T19:58:11	1:06:33	Wahpeton	Hoye_Jeff	Unknown	
	Feeder	RBY	22	2022-11-09T18:31:02	2022-11-09T19:01:42	0:30:40	Wahpeton	Hoye_Jeff	Weather	Ice on lines caused multiple outages.
	Feeder	RBY	22	2022-11-09T19:15:05	2022-11-09T19:15:46	0:00:41	Wahpeton	Hoye_Jeff	Weather	Ice on lines caused multiple outages.
	Feeder	RBY	22	2022-11-09T19:16:23	2022-11-09T19:29:56	0:13:33	Wahpeton	Hoye_Jeff	Weather	Ice on lines caused multiple outages.
	Feeder	RBY	22	2022-11-09T19:30:43	2022-11-09T20:14:06	0:43:23	Wahpeton	Hoye_Jeff	Weather	Ice on lines caused multiple outages.
	Feeder	RBY	22	2022-11-09T20:52:14	2022-11-09T20:52:22	0:00:08	Wahpeton	Hoye_Jeff	Weather	Ice on lines caused multiple outages.
	Feeder	RBY	22	2022-12-13T04:54:33	2022-12-13T05:39:57	0:45:24	Wahpeton	Hoye_Jeff	Equip Fail Substation	Breaker in Sub is bad so had to open and take out of service.
	Feeder	RBY	22	2022-12-14T10:39:40	2022-12-14T10:39:47	0:00:07	Wahpeton	Hoye_Jeff	Equip Fail Substation	planned outage for replacing breaker from previous evening.
	Substation	RBY	376	2022-04-12T11:17:10	2022-04-12T11:26:24	0:09:14	Milbank	Denison_Joey	Lightning	Lots of lightning in area
	Substation	RBY	376	2022-05-12T03:33:16	2022-05-12T03:33:23	0:00:07	Milbank	Denison_Joey		
	Substation	RBY	376	2022-05-12T17:42:16	2022-05-12T17:42:40	0:00:24	Milbank	Denison_Joey		
	Substation	RBY	376	2022-05-12T17:48:15	2022-05-14T19:43:35	49:55:20	Milbank	Denison_Joey	Weather	Major event. Severe thunderstorm and severe winds.
	Substation	RBY	376	2022-05-26T23:52:07	2022-05-26T23:52:16	0:00:09	Milbank	Denison_Joey		
	Substation	RBY	376	2022-06-02T15:11:12	2022-06-02T15:11:28	0:00:16	Milbank	Denison_Joey		
	Substation	RBY	376	2022-09-23T15:31:08	2022-09-23T16:47:07	1:15:59	Milbank	Denison_Joey	Equip Fail Insulator	Insulator tracking caused pole fire
	Substation	RBY	52	2022-04-23T15:29:09	2022-04-23T15:29:17	0:00:08	Jamestown	Price_Chans	Weather	Rain, lightning, storms in the area.
	Substation	RBY	52	2022-05-09T01:14:55	2022-05-09T01:15:04	0:00:09	Jamestown	Price_Chans	Weather	Storms in the area.
	Substation	RBY	52	2022-06-14T04:55:21	2022-06-14T04:55:28	0:00:07	Jamestown	Price_Chans	Weather	Sykeston Jct motor operator 759 opened due to lightning and storm in the area.
	Substation	RBY	52	2022-06-14T04:58:11	2022-06-14T08:06:12	3:08:01	Jamestown	Price_Chans	Weather	Sykeston Jct motor operator 759 opened due to lightning and storm in the area. JCH Audited 7/28/22
	Substation	RBY	52	2022-07-10T06:10:26	2022-07-10T06:10:35	0:00:09	Jamestown	Price_Chans	Weather	Storms with strong winds, rain, lightning.
	Substation	RBY	52	2022-08-15T11:17:02	2022-08-15T11:17:10	0:00:08	Jamestown	Price_Chans	Weather	Lightning storm in the area.
	Substation	RBY	52	2022-08-26T15:32:36	2022-08-26T15:32:42	0:00:06	Jamestown	Price_Chans	Vegetation	SEL reading of 4.3 miles west of Carrington breaker # 535. Line patrolled and found a span of trees getting into transmission line.
	Substation	RBY	52	2022-11-12T08:01:36	2022-11-12T08:04:07	0:02:31	Jamestown	Price_Chans	Equip Fail Substation	WAPA Carrington failed 115/41.6 transformer.
	Substation	RBY	52	2022-12-12T08:31:03	2022-12-12T08:31:20	0:00:17	Jamestown	Price_Chans	Equip Fail Insulator	Broken insulator between Carrington 535 and Sykeston 511.
	Substation	RBY	52	2022-12-12T10:02:30	2022-12-12T10:02:38	0:00:08	Jamestown	Price_Chans	Equip Fail Insulator	Broken insulator between Carrington 535 and Sykeston 511.
	Substation	RBY	52	2022-12-12T10:08:51	2022-12-12T12:01:37	1:52:46	Jamestown	Price_Chans	Equip Fail Insulator	Broken insulator between Carrington 535 and Sykeston 511.
	Substation	R	3	2022-04-23T15:29:10	2022-04-23T15:29:18	0:00:08	Jamestown	Price_Chans	Weather	Rain, lightning, storms in the area.
	Substation	R	3	2022-05-09T01:14:41	2022-05-09T01:15:06	0:00:25	Jamestown	Price_Chans	Weather	Storms in the area.
	Substation	R	3	2022-06-14T04:55:20	2022-06-14T04:55:29	0:00:09	Jamestown	Price_Chans	Weather	Sykeston Jct motor operator 759 opened due to lightning and storm in the area.
	Substation	R	3	2022-06-14T04:58:11	2022-06-14T08:06:13	3:08:02	Jamestown	Price_Chans	Weather	Sykeston Jct motor operator 759 opened due to lightning and storm in the area. JCH Audited 7/28/22
	Substation	R	3	2022-06-14T08:54:05	2022-06-14T08:54:13	0:00:08	Jamestown	Price_Chans	Weather	Sykeston Jct motor operator 759 opened due to lightning and storm in the area.
	Substation	R	3	2022-07-10T06:10:27	2022-07-10T06:10:36	0:00:09	Jamestown	Price_Chans	Weather	Storms with strong winds, rain, lightning.
	Substation	R	3	2022-08-15T11:17:02	2022-08-15T11:17:11	0:00:09	Jamestown	Price_Chans	Weather	Lightning storm in the area.
	Substation	R	3	2022-08-26T15:32:36	2022-08-26T15:32:43	0:00:07	Jamestown	Price_Chans	Vegetation	SEL reading of 4.3 miles west of Carrington breaker # 535. Line patrolled and found a span of trees getting into transmission line.
	Substation	R	3	2022-11-12T08:01:36	2022-11-12T08:04:09	0:02:33	Jamestown	Price_Chans	Equip Fail Substation	WAPA Carrington failed 115/41.6 transformer.
	Substation	R	3	2022-12-12T08:31:13	2022-12-12T08:31:22	0:00:09	Jamestown	Price_Chans	Equip Fail Insulator	Broken insulator between Carrington 535 and Sykeston 511.
	Substation	R	3	2022-12-12T10:02:31	2022-12-12T10:02:39	0:00:08	Jamestown	Price_Chans	Equip Fail Insulator	Broken insulator between Carrington 535 and Sykeston 511.
	Substation	R	3	2022-12-12T10:08:51	2022-12-12T12:01:39	1:52:48	Jamestown	Price_Chans	Equip Fail Insulator	Broken insulator between Carrington 535 and Sykeston 511.
	Substation	Y	8	2022-04-22T21:18:40	2022-04-22T21:18:50	0:00:10	Wahpeton	Hovel_Loren	Equip Fail Insulator	Broken insulator caused blinks and the the breaker opened which caused the longer outage.
	Substation	Y	8	2022-04-22T23:19:48	2022-04-22T23:19:58	0:00:10	Wahpeton	Hovel_Loren	Equip Fail Insulator	Broken insulator caused blinks and the the breaker opened which caused the longer outage.
	Substation	Y	8	2022-04-22T23:27:09	2022-04-22T23:27:20	0:00:11	Wahpeton	Hovel_Loren	Equip Fail Insulator	Broken insulator caused blinks and the the breaker opened which caused the longer outage.
	Substation	Y	8	2022-04-23T00:34:05	2022-04-23T00:34:16	0:00:11	Wahpeton	Hovel_Loren	Equip Fail Insulator	Broken insulator caused blinks and the the breaker opened which caused the longer outage.
	Substation	Y	8	2022-04-23T00:49:15	2022-04-23T00:49:26	0:00:11	Wahpeton	Hovel_Loren	Equip Fail Insulator	Broken insulator caused blinks and the the breaker opened which caused the longer outage.
	Substation	Y	8	2022-04-23T00:50:43	2022-04-23T00:50:53	0:00:10	Wahpeton	Hovel_Loren	Equip Fail Insulator	Broken insulator caused blinks and the the breaker opened which caused the longer outage.
	Substation	Y	8	2022-05-09T07:17:56	2022-05-09T07:18:07	0:00:11	Wahpeton	Hovel_Loren	Weather	Strong thunderstorms with lots of lightning and heavy rain in the area.
	Substation	Y	8	2022-05-09T07:33:45	2022-05-09T07:33:56	0:00:11	Wahpeton	Hovel_Loren	Weather	Strong thunderstorms with lots of lightning and heavy rain in the area.

Equipment ID	Equipment Type	Phase(s)	Customers	Outage Start	Outage End	Duration	Customer Service Center	Region	Cause	Notes
	Substation	Y	8	2022-05-09T07:36:05	2022-05-09T07:39:50	0:03:45	Wahpeton	Hovel_Loren	Weather	Strong thunderstorms with lots of lightning and heavy rain in the area.
	Substation	Y	8	2022-07-10T21:18:35	2022-07-10T21:27:37	0:09:02	Wahpeton	Hovel_Loren	Weather	Strong storms in the area and 230 line tripped out.
	Substation	Y	8	2022-11-01T15:19:07	2022-11-01T16:02:38	0:43:31	Wahpeton	Hovel_Loren	other	Smoke from a grass fire caused line to arc out.
	Substation	Y	8	2022-11-10T10:39:50	2022-11-10T10:40:00	0:00:10	Wahpeton	Hovel_Loren	Weather	Ice on lines caused multiple outages
	Substation	Y	8	2022-11-10T14:46:01	2022-11-10T15:43:49	0:57:48	Wahpeton	Hovel_Loren	Weather	Ice on lines caused multiple outages
	Substation	Y	8	2022-11-10T16:18:04	2022-11-10T16:18:14	0:00:10	Wahpeton	Hovel_Loren	Weather	Ice on lines caused multiple outages
	Substation	Y	8	2022-11-11T13:12:24	2022-11-11T14:05:46	0:53:22	Wahpeton	Hovel_Loren		
	Substation	BR	80	2022-05-09T05:56:51	2022-05-09T05:57:14	0:00:23	Wahpeton	Ogren_Dwight	Weather	Multiple lightning strikes on the system so we have multiple blown arrestors and fuses.
	Substation	BR	80	2022-05-31T02:53:47	2022-05-31T02:54:03	0:00:16	Wahpeton	Ogren_Dwight	Weather	Several strong storms went through the area with high winds and lightning.
	Substation	BR	80	2022-06-14T05:41:19	2022-06-14T05:41:34	0:00:15	Wahpeton	Ogren_Dwight	Weather	Storms with lots of lightning in the whole area.
	Substation	BR	80	2022-07-19T02:48:13	2022-07-19T02:48:31	0:00:18	Wahpeton	Ogren_Dwight	Weather	Storms with lightning in the area
	Substation	BR	80	2022-07-22T12:59:24	2022-07-22T12:59:37	0:00:13	Wahpeton	Ogren_Dwight	Bird	Bird in Galcutt sub caused blink
	Substation	BR	80	2022-07-31T04:29:16	2022-07-31T04:29:32	0:00:16	Wahpeton	Ogren_Dwight	Weather	Storms with lots of lightning in the area.
	Substation	BR	80	2022-09-02T20:13:14	2022-09-02T20:13:28	0:00:14	Wahpeton	Ogren_Dwight	Unknown	No customer calls, 41.6 breaker operated we will patrol when we get time.
	Substation	BR	80	2022-09-29T13:53:24	2022-09-29T13:53:38	0:00:14	Wahpeton	Ogren_Dwight	other	OTP relay techs tripped out breaker while working in the Wahpeton 230 sub.
	Substation	Y	6	2022-05-12T21:17:06	2022-05-12T21:17:16	0:00:10	Devils_Lake	Devils_Lake	Weather	Storm system moved through with high wind, heavy rains and lightning.
	Substation	Y	6	2022-05-13T10:55:37	2022-05-13T10:55:42	0:00:05	Devils_Lake	Devils_Lake	Vegetation	Due to high winds, evergreens near Brinsmade fell into 41.6kv line.
	Substation	Y	6	2022-05-13T12:38:44	2022-05-13T12:40:38	0:01:54	Devils_Lake	Devils_Lake	Vegetation	Due to high winds, evergreens near Brinsmade fell into 41.6kv line.
	Substation	Y	6	2022-05-13T12:43:55	2022-05-13T13:33:19	0:49:24	Devils_Lake	Devils_Lake	Weather	Due to high winds evergreens near Brinsmade fell into 41.6kv line again.
	Substation	Y	6	2022-06-20T03:50:58	2022-06-20T03:52:00	0:01:02	Devils_Lake	Devils_Lake	Weather	Storm moved through the area.
	Substation	Y	6	2022-07-10T06:07:06	2022-07-10T06:11:19	0:04:13	Devils_Lake	Devils_Lake	Equip Fail Pole	Four broken transmission poles with underbuild due to storm
	Substation	Y	6	2022-07-10T06:22:06	2022-07-10T07:44:25	1:22:19	Devils_Lake	Devils_Lake	Equip Fail Pole	Four broken transmission poles with underbuild due to storm
	Substation	Y	6	2022-07-22T22:47:34	2022-07-22T22:47:38	0:00:04	Devils_Lake	Devils_Lake	Weather	Storm moving through - high winds and lightning
	Substation	Y	6	2022-08-15T10:29:54	2022-08-15T10:30:03	0:00:09	Devils_Lake	Devils_Lake	Weather	Storm moved through area.
	Substation	Y	6	2022-09-14T17:58:29	2022-09-14T18:26:33	0:28:04	Devils_Lake	Devils_Lake	Equip Fail Pole	Pole broken on 41.6kv line
	Substation	Y	6	2022-09-15T14:36:54	2022-09-15T14:37:57	0:01:03	Devils_Lake	Devils_Lake	Unknown	Unknown
	Substation	RBY	94	2022-01-13T11:45:54	2022-01-13T12:46:47	1:00:53	Jamestown	Bruner_Brent	Unknown	Unknown distribution fault caused Peaking Plant breaker 815 to operate causing Jamestown SE Jct motor-operated switch 781 to open which caused transmission issues between Jamestown and Edgeley load pockets. Cause unknown upon investigation.
	Substation	RBY	94	2022-04-22T22:52:51	2022-04-22T22:52:58	0:00:07	Jamestown	Bruner_Brent	Weather	Storms in the area.
	Substation	RBY	94	2022-04-23T00:10:18	2022-04-23T00:10:24	0:00:06	Jamestown	Bruner_Brent	Weather	Storms in the area.
	Substation	RBY	94	2022-04-23T00:11:03	2022-04-23T00:11:13	0:00:10	Jamestown	Bruner_Brent	Weather	Storms in the area.
	Substation	RBY	94	2022-05-13T13:34:37	2022-05-13T13:39:27	0:04:50	Jamestown	Bruner_Brent	Equip Fail Pole	3 poles fell over in the slough 1 mile south of I-94 and Hwy 30 due to strong winds and wet conditions.
	Substation	RBY	94	2022-05-13T14:38:20	2022-05-13T14:41:28	0:03:08	Jamestown	Bruner_Brent	Equip Fail Pole	3 poles fell over in the slough 1 mile south of I-94 and Hwy 30 due to strong winds and wet conditions.
	Substation	RBY	94	2022-05-13T14:48:46	2022-05-13T14:56:33	0:07:47	Jamestown	Bruner_Brent	Equip Fail Pole	3 poles fell over in the slough 1 mile south of I-94 and Hwy 30 due to strong winds and wet conditions.
	Substation	RBY	94	2022-05-13T15:06:00	2022-05-13T15:19:17	0:13:17	Jamestown	Bruner_Brent	Equip Fail Pole	3 poles fell over in the slough 1 mile south of I-94 and Hwy 30 due to strong winds and wet conditions.
	Substation	RBY	94	2022-06-14T05:32:04	2022-06-14T05:32:10	0:00:06	Jamestown	Bruner_Brent	Weather	Storm in the area.
	Substation	RBY	94	2022-06-14T05:43:55	2022-06-14T05:44:02	0:00:07	Jamestown	Bruner_Brent	Weather	Storm in the area.
	Substation	RBY	94	2022-06-20T16:38:10	2022-06-20T16:44:14	0:06:04	Jamestown	Bruner_Brent	Unknown	Investigated and cause not known. SEL 35.12 from Jamestown and 12.6 from Edgeley.
	Substation	RBY	94	2022-06-29T23:29:24	2022-06-29T23:32:11	0:02:47	Jamestown	Bruner_Brent	Vegetation	Storm in the area caused trees, approximately 10 miles north of Edgeley, to contact transmission line which opened the breaker.
	Substation	RBY	94	2022-07-07T06:21:44	2022-07-07T06:21:52	0:00:08	Jamestown	Bruner_Brent	Weather	Storms in the area.
	Substation	RBY	94	2022-07-31T02:43:33	2022-07-31T02:43:39	0:00:06	Jamestown	Bruner_Brent	Weather	Storm passing through the area.
	Substation	RBY	94	2022-08-28T06:37:05	2022-08-28T06:37:13	0:00:08	Jamestown	Bruner_Brent	Weather	Lightning storm in the area. Line patrolled per SEL data, but nothing found.
	Substation	RBY	94	2022-08-28T07:15:27	2022-08-28T07:15:35	0:00:08	Jamestown	Bruner_Brent	Weather	Lightning storm in the area. Line patrolled per SEL data, but nothing found.

Equipment ID	Equipment Type	Phase(s)	Customers	Outage Start	Outage End	Duration	Customer Service Center	Region	Cause	Notes
	Substation	RBY	94	2022-11-06T11:46:56	2022-11-06T11:50:42	0:03:46	Jamestown	Bruner_Brent	Equip Fail Insulator	Broken center phase insulator between Jamestown Radio Station sub and Millarton-Montpelier Sub.
	Substation	RBY	94	2022-11-09T20:56:24	2022-11-09T20:57:30	0:01:06	Jamestown	Bruner_Brent	Weather	Galloping lines caused by freezing rain and windy conditions.
	Substation	RBY	94	2022-11-09T21:48:16	2022-11-09T21:48:22	0:00:06	Jamestown	Bruner_Brent	Equip Fail Pole	Top of pole burned between Cleveland and Windsor. Galloping lines caused by freezing rain and windy conditions. JCH Audited 11/29/2022
	Substation	RBY	94	2022-11-10T03:47:17	2022-11-10T06:42:30	2:55:13	Jamestown	Bruner_Brent	Weather	
	Substation	RBY	94	2022-11-30T20:04:50	2022-11-30T21:16:49	1:11:59	Jamestown	Bruner_Brent	Equip Fail Conductor	Phase burned down between Jamestown and Eldridge.
	Substation	RBY	94	2022-12-03T00:06:53	2022-12-03T01:59:08	1:52:15	Jamestown	Bruner_Brent	Equip Fail Conductor	Phase burned down between Windsor and Cleveland.
	Substation	RBY	94	2022-12-12T14:39:11	2022-12-12T16:10:15	1:31:04	Jamestown	Bruner_Brent	Equip Fail Pole	Burned off pole top between Windsor and Cleveland.
	Substation	BRY	73	2022-04-22T21:18:32	2022-04-22T21:18:56	0:00:24	Jamestown	Grosgebauer_John	Weather	Storms in the area.
	Substation	BRY	72	2022-04-22T23:17:23	2022-04-22T23:17:47	0:00:24	Jamestown	Grosgebauer_John	Weather	Storms in the area.
	Substation	BRY	72	2022-04-22T23:19:38	2022-04-22T23:20:02	0:00:24	Jamestown	Grosgebauer_John	Weather	Storms in the area.
	Substation	BRY	73	2022-04-23T00:34:02	2022-04-23T00:36:11	0:02:09	Jamestown	Grosgebauer_John	Weather	Storms in the area.
	Substation	BRY	72	2022-04-23T00:44:59	2022-04-23T00:45:24	0:00:25	Jamestown	Grosgebauer_John	Weather	Storms in the area.
	Substation	BRY	72	2022-04-23T01:12:40	2022-04-23T01:13:05	0:00:25	Jamestown	Grosgebauer_John	Weather	Storms in the area.
	Substation	BRY	71	2022-04-23T01:19:52	2022-04-23T01:20:16	0:00:24	Jamestown	Grosgebauer_John	Weather	Storms in the area.
	Substation	BRY	73	2022-04-23T01:40:17	2022-04-23T01:40:41	0:00:24	Jamestown	Grosgebauer_John	Weather	Storms in the area.
	Substation	BRY	73	2022-04-25T16:17:24	2022-04-25T16:18:27	0:01:03	Jamestown	Grosgebauer_John	Unknown	Unknown and not investigated.
	Substation	BRY	73	2022-04-29T07:34:58	2022-04-29T07:35:20	0:00:22	Jamestown	Grosgebauer_John	Unknown	Unknown and not investigated.
	Substation	BRY	73	2022-05-07T20:41:32	2022-05-07T20:41:53	0:00:21	Jamestown	Grosgebauer_John	Weather	Storms in the area.
	Substation	BRY	73	2022-05-09T07:35:52	2022-05-09T07:39:50	0:03:58	Jamestown	Grosgebauer_John	Weather	Storms in the area.
	Substation	BRY	96	2022-06-21T14:34:59	2022-06-21T19:08:26	4:33:27	Jamestown	Grosgebauer_John	other	Grain bin move tore down neutral by Cogswell. JCH Audited 7/28/22
	Substation	BRY	73	2022-06-23T21:15:00	2022-06-23T22:03:28	0:48:28	Jamestown	Grosgebauer_John	Equip Fail Conductor	Broken jumper on the transmission line between Oakes and Cogswell at Kraft's slough.
	Substation	BRY	73	2022-06-23T23:25:10	2022-06-23T23:37:28	0:12:18	Jamestown	Grosgebauer_John	Equip Fail Conductor	Broken jumper on the transmission line between Oakes and Cogswell at Kraft's slough.
	Substation	BRY	72	2022-06-24T01:18:47	2022-06-24T04:20:17	3:01:30	Jamestown	Grosgebauer_John	Equip Fail Conductor	Broken jumper on the transmission line between Oakes and Cogswell at Kraft's slough. JCH audited 7/28/22
	Substation	BRY	73	2022-06-24T04:20:40	2022-06-24T04:21:26	0:00:46	Jamestown	Grosgebauer_John	Equip Fail Conductor	Broken jumper on the transmission line between Oakes and Cogswell at Kraft's slough.
	Substation	BRY	71	2022-06-24T04:44:53	2022-06-24T05:52:55	1:08:02	Jamestown	Grosgebauer_John	Equip Fail Conductor	Broken jumper on the transmission line between Oakes and Cogswell at Kraft's slough.
	Substation	BRY	73	2022-07-10T21:18:23	2022-07-10T21:27:38	0:09:15	Jamestown	Grosgebauer_John	Weather	Storms with strong winds, rain, lightning.
	Substation	BRY	73	2022-11-02T11:00:10	2022-11-02T11:38:33	0:38:23	Jamestown	Grosgebauer_John	other	Smoke from a grass fire caused line to arc.
	Substation	BRY	73	2022-11-10T06:38:58	2022-11-10T13:00:09	6:21:11	Jamestown	Grosgebauer_John	Weather	Ice on the line with windy conditions. JCH Audited 11/29/2022
	Substation	BRY	73	2022-11-10T16:57:45	2022-11-10T18:37:26	1:39:41	Jamestown	Grosgebauer_John	Weather	Ice on the line with windy conditions
	Substation	BR	56	2022-04-24T08:21:28	2022-04-24T08:21:39	0:00:11	Rugby	Gravseth_Chad	Weather	Severe Weather including High winds, Freezing rain, Snow and rain caused Broken poles, switches, Xarms, wire and insulators leading to multiple power outages throughout the area.
	Substation	BR	56	2022-04-24T08:22:30	2022-04-24T09:43:34	1:21:04	Rugby	Gravseth_Chad	Weather	Severe Weather including High winds, Freezing rain, Snow and rain caused Broken poles, switches, Xarms, wire and insulators leading to multiple power outages throughout the area.
	Substation	BR	56	2022-12-15T12:51:31	2022-12-15T12:51:42	0:00:11	Rugby	Gravseth_Chad	Weather	Icing conditions high winds/blizzard
	Substation	BR	56	2022-12-15T12:59:09	2022-12-15T12:59:19	0:00:10	Rugby	Gravseth_Chad	Weather	Icing conditions high winds/blizzard
	Substation	BR	56	2022-12-15T13:06:32	2022-12-15T13:06:41	0:00:09	Rugby	Gravseth_Chad	Weather	Icing conditions high winds/blizzard
	Substation	BR	56	2022-12-15T14:25:16	2022-12-15T14:26:07	0:00:51	Rugby	Gravseth_Chad	Weather	Icing conditions high winds/blizzard
	Substation	BR	56	2022-12-15T14:43:36	2022-12-15T14:43:45	0:00:09	Rugby	Gravseth_Chad	Weather	Icing conditions high winds/blizzard
	Substation	BR	55	2022-12-15T14:45:31	2022-12-15T14:46:08	0:00:37	Rugby	Gravseth_Chad	Weather	Icing conditions high winds/blizzard
	Substation	BR	56	2022-12-15T14:47:59	2022-12-15T14:53:49	0:05:50	Rugby	Gravseth_Chad	Weather	Icing conditions high winds/blizzard
	Substation	BR	56	2022-12-15T15:05:44	2022-12-15T15:27:41	0:21:57	Rugby	Gravseth_Chad	Weather	Icing conditions high winds/blizzard
	Substation	BR	54	2022-12-15T15:46:33	2022-12-15T15:46:42	0:00:09	Rugby	Gravseth_Chad	Weather	Icing conditions high winds/blizzard
	Substation	BR	56	2022-12-15T16:19:56	2022-12-15T16:20:05	0:00:09	Rugby	Gravseth_Chad	Weather	Icing conditions high winds/blizzard
	Substation	BR	56	2022-12-15T16:25:01	2022-12-15T16:25:10	0:00:09	Rugby	Gravseth_Chad	Weather	Icing conditions high winds/blizzard
	Substation	BR	54	2022-12-15T19:54:12	2022-12-15T19:54:23	0:00:11	Rugby	Gravseth_Chad	Weather	Icing conditions high winds/blizzard
	Substation	BR	56	2022-12-15T19:59:33	2022-12-15T20:03:21	0:03:48	Rugby	Gravseth_Chad	Weather	Icing conditions high winds/blizzard
	Substation	BR	56	2022-12-25T07:26:34	2022-12-25T07:26:46	0:00:12	Rugby	Gravseth_Chad	Weather	Blizzard - high winds ice and snow - broken phase, guy wires...
	Substation	BR	56	2022-12-25T15:29:09	2022-12-25T15:29:36	0:00:27	Rugby	Gravseth_Chad	Weather	Blizzard - high winds ice and snow - broken phase, guy wires... Broken insulator approximately 1 mile south of the Galesburg/Clifford sub. JCH audited 4/27/22
	Feeder	RBY	31	2022-04-19T10:12:39	2022-04-19T12:39:28	2:26:49	Jamestown	Atkinson_Tom	Equip Fail Insulator	
	Feeder	RBY	31	2022-04-22T22:49:14	2022-04-22T22:49:21	0:00:07	Jamestown	Atkinson_Tom	Weather	Storms in the area.
	Feeder	RBY	31	2022-04-23T04:44:35	2022-04-23T04:44:41	0:00:06	Jamestown	Atkinson_Tom	Weather	Storms in the area.
	Feeder	RBY	31	2022-06-14T06:43:20	2022-06-14T06:43:27	0:00:07	Jamestown	Atkinson_Tom	Weather	Storm in the area.
	Feeder	RBY	31	2022-07-10T07:55:56	2022-07-10T07:56:03	0:00:07	Jamestown	Atkinson_Tom	Weather	Storms with strong winds, rain, lightning.
	Feeder	RBY	31	2022-07-13T08:27:05	2022-07-13T08:27:11	0:00:06	Jamestown	Atkinson_Tom	Equip Fail Cutout	Failed cutout by Mewes Farms east of Colgate.

Equipment ID	Equipment Type	Phase(s)	Customers	Outage Start	Outage End	Duration	Customer Service Center	Region	Cause	Notes
	Feeder	RBY	31	2022-07-21T19:06:13	2022-07-21T19:06:19	0:00:06	Jamestown	Atkinson_Tom	Weather	Storm in the area.
	Feeder	RBY	31	2022-09-10T04:33:47	2022-09-10T04:33:53	0:00:06	Jamestown	Atkinson_Tom	Unknown	Cause unknown and not investigated.
	Feeder	RBY	31	2022-11-10T09:34:28	2022-11-10T12:12:24	2:37:56	Jamestown	Atkinson_Tom	Weather	Galloping lines caused by freezing rain and windy conditions.JCH Audited 11/29/22
	FeederSection	B	2	2022-05-09T05:43:55	2022-05-09T05:44:06	0:00:11	Wahpeton	Wahpeton		
	FeederSection	RBY	6	2022-05-12T19:28:49	2022-05-12T19:52:17	0:23:28	Wahpeton	Wahpeton	Weather	Strong storms with straight line winds caused extensive tree damage and several poles to break.
	FeederSection	B	2	2022-06-14T05:38:16	2022-06-14T05:38:29	0:00:13	Wahpeton	Wahpeton	Weather	Strong storms with lightning in the area.
	Substation	BYR	1144	2022-05-12T20:20:01	2022-05-12T20:20:57	0:00:56	Jamestown	Midstokke_Ryne	Weather	Storms in the area.
	Substation	BYR	1137	2022-06-14T06:30:17	2022-06-14T06:31:25	0:01:08	Jamestown	Midstokke_Ryne	Weather	Storm in the area.
	Substation	BYR	1145	2022-08-19T18:57:43	2022-08-19T18:58:44	0:01:01	Jamestown	Midstokke_Ryne	Unknown	SEL indicated between Hannaford and Walum. Line patrolled but no cause found. There was lightning and rain in the area.
	Feeder	RBY	606	2022-05-13T08:29:56	2022-05-13T08:30:20	0:00:24	Jamestown	Midstokke_Ryne	Weather	Storms in the area.
	Feeder	RBY	606	2022-06-14T06:38:57	2022-06-14T06:39:04	0:00:07	Jamestown	Midstokke_Ryne	Weather	Storm in the area.
	Feeder	RBY	606	2022-07-17T15:59:48	2022-07-17T16:00:51	0:01:03	Jamestown	Midstokke_Ryne	Animal	Squirrel blew riser pole fuse near Cherokee Ct.
	Feeder	RBY	606	2022-08-27T08:01:14	2022-08-27T08:01:39	0:00:25	Jamestown	Midstokke_Ryne	Unknown	Unknown and not patrolled.
	Feeder	RBY	606	2022-12-03T08:31:10	2022-12-03T08:31:18	0:00:08	Jamestown	Midstokke_Ryne	Equip Fail Underground	Underground primary fault on Fairway Drive.
	Feeder	RBY	606	2022-12-03T11:21:34	2022-12-03T11:21:41	0:00:07	Jamestown	Midstokke_Ryne	Equip Fail Underground	Underground primary fault on Fairway Drive.
	Feeder	BYR	534	2022-06-14T06:39:47	2022-06-14T06:40:42	0:00:55	Jamestown	Midstokke_Ryne	Weather	Storm in the area.
	Feeder	BYR	529	2022-06-14T06:42:24	2022-06-14T06:43:18	0:00:54	Jamestown	Midstokke_Ryne	Weather	Storm in the area.
	Feeder	BYR	521	2022-06-14T06:50:48	2022-06-14T06:51:37	0:00:49	Jamestown	Midstokke_Ryne	Weather	Storm in the area.
	Feeder	BYR	527	2022-06-14T07:14:59	2022-06-14T07:15:49	0:00:50	Jamestown	Midstokke_Ryne	Weather	Storm in the area.
	Feeder	BYR	515	2022-06-14T07:17:39	2022-06-14T07:18:32	0:00:53	Jamestown	Midstokke_Ryne	Weather	Storm in the area.
	Feeder	BYR	519	2022-06-14T07:40:37	2022-06-14T07:41:32	0:00:55	Jamestown	Midstokke_Ryne	Weather	Storm in the area.
	Substation	BRY	53	2022-05-30T15:36:43	2022-05-30T16:25:06	0:48:23	Morris	Stine_Mike	Equip Fail Conductor	Large storms with tornados in the area again. Trees through lines and broken poles
	FeederSection	BR	21	2022-05-09T05:43:56	2022-05-09T05:44:16	0:00:20	Wahpeton	Wahpeton		
	FeederSection	BR	21	2022-06-14T05:38:16	2022-06-14T05:38:38	0:00:22	Wahpeton	Wahpeton	Weather	Strong storms with lightning in the area.
	FeederSection	BR	21	2022-06-25T07:18:29	2022-06-25T07:18:53	0:00:24	Wahpeton	Wahpeton	Animal	Dead Squirrel on riser pole
	Substation	BR	251	2022-01-01T23:13:04	2022-01-02T05:53:17	6:40:13	Jamestown	Bruner_Brent	Itron meter voltage source failure	JCH audited 1/28/2022. Broken phase between Courtney to Courtney Jct 293. All customers impacted.
	Substation	BR	243	2022-02-01T00:02:22	2022-02-01T00:02:36	0:00:14	Jamestown	Bruner_Brent	Equip Fail Insulator	Broken insulator between Jamestown 345 kv sub and Hwy 20 and a broken tie between Courtenay Jct and Courtenay.
	Substation	BR	251	2022-02-01T00:04:34	2022-02-01T00:05:11	0:00:37	Jamestown	Bruner_Brent	Equip Fail Insulator	Broken insulator between Jamestown 345 kv sub and Hwy 20 and a broken tie between Courtenay Jct and Courtenay.
	Substation	BR	251	2022-02-01T00:05:48	2022-02-01T01:46:00	1:40:12	Jamestown	Bruner_Brent	Equip Fail Insulator	Broken insulator between Jamestown 345 kv sub and Hwy 20 and a broken tie between Courtenay Jct and Courtenay. JCH audited 2/28/22
	Substation	BR	251	2022-02-01T04:19:24	2022-02-01T05:41:12	1:21:48	Jamestown	Bruner_Brent	Equip Fail Insulator	Broken insulator between Jamestown 345 kv sub and Hwy 20 and a broken tie between Courtenay Jct and Courtenay.
	Substation	BR	246	2022-02-01T05:46:43	2022-02-01T09:23:33	3:36:50	Jamestown	Bruner_Brent	Equip Fail Insulator	Broken insulator between Jamestown 345 kv sub and Hwy 20 and a broken tie between Courtenay Jct and Courtenay. JCH audited 2/28/22
	Substation	BR	251	2022-04-20T20:41:10	2022-04-20T20:41:27	0:00:17	Jamestown	Bruner_Brent	Unknown	SEL 2 miles north of Kensal. Unknown and not investigated at this time.
	Substation	BR	251	2022-05-04T13:42:39	2022-05-04T13:47:03	0:04:24	Jamestown	Bruner_Brent	Equip Fail Insulator	41.6 kv horizontal insulator failed in the Kensal area.
	Substation	BR	243	2022-06-15T18:47:45	2022-06-15T18:54:41	0:06:56	Jamestown	Bruner_Brent	other	Bitcoin had construction insulation blow into the bus on their side of the line.
	Substation	BR	244	2022-06-19T22:21:30	2022-06-19T22:21:58	0:00:28	Jamestown	Bruner_Brent	Vegetation	Trees on the line due to storm in the area.
	Substation	BR	251	2022-06-24T18:52:44	2022-06-24T18:53:14	0:00:30	Jamestown	Bruner_Brent	Weather	Storm in the area.
	Substation	BR	251	2022-07-05T23:57:45	2022-07-06T02:00:29	2:02:44	Jamestown	Bruner_Brent	Animal	Raccoon got into the Courtenay sub and blew all 3 high side fuses. JCH audited 7/28/22
	Substation	BR	251	2022-08-02T04:00:30	2022-08-02T04:57:13	0:56:43	Jamestown	Bruner_Brent	Planned	Planned outage to replace substation metering. Raccoon got into the Courtenay sub on 7/6/22 and blew all 3 high side fuses and burned up the substation metering.
	Substation	BR	251	2022-08-28T06:35:05	2022-08-28T06:35:28	0:00:23	Jamestown	Bruner_Brent	Weather	Lightning storm in the area. Line patrolled per SEL data, but nothing found.
	Substation	BR	244	2022-09-07T11:55:29	2022-09-07T11:55:48	0:00:19	Jamestown	Bruner_Brent	Equip Fail Fuse unknown cause	Blown high side fuse in substation. Cause unknown.
	Substation	BR	245	2022-10-07T04:55:38	2022-10-07T04:55:55	0:00:17	Jamestown	Bruner_Brent	Unknown	Investigated but cause unknown.
	Feeder	BR	49	2022-06-19T22:32:23	2022-06-20T00:43:19	2:10:56	Jamestown	Bruner_Brent	Vegetation	Trees on the line due to storm in the area. JCH audited 7/28/22
	Feeder	R	120	2022-02-02T22:30:32	2022-02-02T22:30:45	0:00:13	Jamestown	Bruner_Brent	Equip Fail Underground	Underground primary fault at the Lutheran Church in Wimbledon.

Equipment ID	Equipment Type	Phase(s)	Customers	Outage Start	Outage End	Duration	Customer Service Center	Region	Cause	Notes
Feeder	R		120	2022-02-03T10:48:00	2022-02-03T10:48:15	0:00:15	Jamestown	Bruner_Brent	Equip Fail Underground	Underground primary fault at the Lutheran Church in Wimbledon.
Feeder	BR		200	2022-05-13T13:26:29	2022-05-13T14:32:07	1:05:38	Jamestown	Bruner_Brent	Equip Fail Other	Crossarm split and caused insulator to float.
Feeder	BR		201	2022-06-14T06:27:19	2022-06-14T08:58:41	2:31:22	Jamestown	Bruner_Brent	Vegetation	Tree fell on the line and burned down 2 phases. JCH audited 7/28/22
Feeder	BR		202	2022-12-11T06:56:45	2022-12-11T08:43:21	1:46:36	Jamestown	Bruner_Brent	Weather	Knocked frost off of the line in areas that could have been a concern in Wimbledon.
Substation	RBY		65	2022-01-08T02:46:39	2022-01-08T02:47:08	0:00:29	Devils_Lake	Eriksson_Lehmann_Gardner	Equip Fail Conductor	Yellow Phase cable faulted out of the warehouse sub which was seen on the transmission
Substation	RBY		65	2022-03-14T22:56:54	2022-03-14T22:57:01	0:00:07	Devils_Lake	Eriksson_Lehmann_Gardner	Unknown	Unknown
Substation	RBY		65	2022-05-09T07:49:35	2022-05-09T08:40:48	0:51:13	Devils_Lake	Eriksson_Lehmann_Gardner	Equip Fail Insulator	Failed insulator during rain storm
Substation	RBY		65	2022-05-09T08:41:39	2022-05-09T09:08:24	0:26:45	Devils_Lake	Eriksson_Lehmann_Gardner	Equip Fail Insulator	Failed insulator during rain storm
Substation	RBY		65	2022-05-09T09:10:09	2022-05-09T09:48:35	0:38:26	Devils_Lake	Eriksson_Lehmann_Gardner	Equip Fail Insulator	Failed insulator during rain storm
Substation	RBY		65	2022-05-09T09:51:40	2022-05-09T10:35:52	0:44:12	Devils_Lake	Eriksson_Lehmann_Gardner	Equip Fail Insulator	Failed insulator during rain storm
Substation	RBY		65	2022-05-12T18:00:20	2022-05-12T18:00:24	0:00:04	Devils_Lake	Eriksson_Lehmann_Gardner	Weather	Storm system moved through with high wind, heavy rains and lightning.
Substation	RBY		65	2022-05-25T15:02:28	2022-05-25T15:02:34	0:00:06	Devils_Lake	Eriksson_Lehmann_Gardner	Unknown	Unknown
Substation	RBY		65	2022-06-20T21:12:20	2022-06-21T02:28:01	5:15:41	Devils_Lake	Eriksson_Lehmann_Gardner	Equip Fail Insulator	Insulator tracked across burning pole top off. JCH audited 6/28/2022
Substation	RBY		65	2022-06-24T16:52:54	2022-06-24T16:52:58	0:00:04	Devils_Lake	Eriksson_Lehmann_Gardner	Weather	Severe storm moved through. Lightning struck 4 poles
Substation	RBY		65	2022-08-18T03:22:28	2022-08-18T03:22:34	0:00:06	Devils_Lake	Eriksson_Lehmann_Gardner	Weather	Severe storms moved through the area
Substation	RBY		65	2022-09-04T07:48:38	2022-09-04T07:48:45	0:00:07	Devils_Lake	Eriksson_Lehmann_Gardner	Unknown	Unknown
Substation	BRY		142	2022-04-23T02:35:32	2022-04-23T02:35:55	0:00:23	Wahpeton	Ogren_Dwight	Weather	Storms with high winds in the whole area.
Substation	BRY		142	2022-04-29T14:41:47	2022-04-29T14:43:46	0:01:59	Wahpeton	Ogren_Dwight	Unknown	phase to phase contact on 115 near Casselton
Substation	BRY		142	2022-05-31T02:53:41	2022-05-31T02:54:44	0:01:03	Wahpeton	Ogren_Dwight	Unknown	Momentary on transmission line caused aoutage from Wahpeton all the way to open
Substation	BRY		142	2022-08-23T18:39:26	2022-08-23T20:28:43	1:49:17	Wahpeton	Ogren_Dwight	Equip Fail Insulator	Top insulator burnt off and caused the outage
Substation	Y		27	2022-10-25T06:15:52	2022-10-25T06:15:57	0:00:05	Wahpeton	Ogren_Dwight	Itron meter failure	No outage was reported
Substation	BRY		142	2022-11-09T18:30:49	2022-11-09T19:01:42	0:30:53	Wahpeton	Ogren_Dwight	Weather	Had to take the town down to cut out some trees that got into the line.
Substation	BRY		283	2022-11-09T19:14:53	2022-11-09T19:29:57	0:15:04	Wahpeton	Ogren_Dwight	Weather	Had to take the town down to cut out some trees that got into the line.
Substation	BRY		141	2022-11-09T19:30:29	2022-11-09T20:49:26	1:18:57	Wahpeton	Ogren_Dwight	Weather	Had to take the town down to cut out some trees that got into the line.
Substation	BRY		142	2022-12-13T04:54:20	2022-12-13T06:49:12	1:54:52	Wahpeton	Ogren_Dwight	Equip Fail Insulator	Broken insulator on 41.6 near Davenport
Substation	BRY		142	2022-12-14T10:39:29	2022-12-14T10:40:40	0:01:11	Wahpeton	Ogren_Dwight	Weather	Ice and snow on lines caused numourous outages.
Substation	RY		66	2022-05-12T20:20:04	2022-05-12T20:20:28	0:00:24	Jamestown	Midstokke_Ryne	Weather	Storms in the area.
Substation	RY		66	2022-06-14T06:30:16	2022-06-14T06:30:29	0:00:13	Jamestown	Midstokke_Ryne	Weather	Storm in the area.
Substation	RY		66	2022-06-20T18:46:22	2022-06-20T18:46:40	0:00:18	Jamestown	Midstokke_Ryne	Weather	Storms in the area.
Substation	RY		66	2022-08-19T18:57:45	2022-08-19T18:58:09	0:00:24	Jamestown	Midstokke_Ryne	Unknown	SEL indicated between Hannaford and Walum. Line patrolled but no cause found. There was lightning and rain in the area.
Substation	RBY		21	2022-05-09T10:28:08	2022-05-09T10:28:17	0:00:09	Jamestown	Midstokke_Ryne	Weather	Storms in the area.
Substation	RBY		21	2022-05-09T12:01:37	2022-05-09T12:03:34	0:01:57	Jamestown	Midstokke_Ryne	Weather	Storms in the area.
Substation	RBY		21	2022-05-12T20:20:22	2022-05-12T20:20:28	0:00:06	Jamestown	Midstokke_Ryne	Weather	Storms in the area.
Substation	RBY		21	2022-06-14T06:30:18	2022-06-14T06:30:25	0:00:07	Jamestown	Midstokke_Ryne	Weather	Storm in the area.
Substation	RBY		21	2022-06-20T18:46:27	2022-06-20T18:46:36	0:00:09	Jamestown	Midstokke_Ryne	Weather	Storms in the area.
Substation	B		10	2022-07-01T10:53:33	2022-07-01T12:25:34	1:32:01	Jamestown	Midstokke_Ryne	Equip Fail Conductor	Phase and neutral wrapped together.
Substation	RBY		21	2022-08-19T18:57:42	2022-08-19T18:57:50	0:00:08	Jamestown	Midstokke_Ryne	Unknown	SEL indicated between Hannaford and Walum. Line patrolled but no cause found. There was lightning and rain in the area.
Substation	RBY		21	2022-10-24T05:19:48	2022-10-24T05:24:43	0:04:55	Jamestown	Midstokke_Ryne	Equip Fail Pole	Lightning struck pole and burned off top of pole at 1304 111th Ave SE, Dazey
Substation	BR		75	2022-06-13T20:44:37	2022-06-13T20:44:58	0:00:21	Rugby	Bartholomay_Seth	Weather	Stormy weather with high winds traveled through the CSC causing blinks
Substation	B		41	2022-07-09T05:07:50	2022-07-09T05:07:56	0:00:06	Rugby	Bartholomay_Seth	Weather	Storms were rolling through the area. rain, high winds, lightning.
Substation	R		34	2022-07-09T05:08:04	2022-07-09T05:08:10	0:00:06	Rugby	Bartholomay_Seth	Weather	Storms were rolling through the area. rain, high winds, lightning.
Substation	BR		75	2022-07-10T04:24:27	2022-07-10T04:55:51	0:31:24	Rugby	Bartholomay_Seth	Weather	Storms rolled through the area causing damage throughout its path. rain, lightning and high winds
Substation	BR		75	2022-07-10T04:58:34	2022-07-10T04:58:56	0:00:22	Rugby	Bartholomay_Seth	Weather	Storms rolled through the area causing damage throughout its path. rain, lightning and high winds
Substation	BR		75	2022-07-26T00:52:17	2022-07-26T00:52:38	0:00:21	Rugby	Bartholomay_Seth	Weather	Storm cell moved through the area.
Substation	BR		75	2022-07-30T23:07:28	2022-07-30T23:08:29	0:01:01	Rugby	Bartholomay_Seth	Unknown	CPEC Voltaire Neal Station 185 operated. SEL 17.7 miles. WAPA not confident that the SEL is correct. Patrolled, nothing found.
Substation	BR		75	2022-12-16T04:17:08	2022-12-16T05:26:42	1:09:34	Rugby	Bartholomay_Seth	Weather	Icing conditions high winds/blizzard

Equipment ID	Equipment Type	Phase(s)	Customers	Outage Start	Outage End	Duration	Customer Service Center	Region	Cause	Notes
	Substation	BR	75	2022-12-16T09:43:06	2022-12-16T09:44:39	0:01:33	Rugby	Bartholomay_Seth	Weather	Icing conditions high winds/blizzard Severe Weather including High winds, Freezing rain, Snow and rain caused Broken poles, switches, Xarms, wire and insulators leading to multiple power outages throughout the area.
	Substation	RY	16	2022-04-24T08:21:10	2022-04-24T08:21:25	0:00:15	Rugby	Rugby	Weather	Severe Weather including High winds, Freezing rain, Snow and rain caused Broken poles, switches, Xarms, wire and insulators leading to multiple power outages throughout the area.
	Substation	RY	16	2022-04-24T08:22:17	2022-04-24T08:38:01	0:15:44	Rugby	Rugby	Weather	Severe Weather including High winds, Freezing rain, Snow and rain caused Broken poles, switches, Xarms, wire and insulators leading to multiple power outages throughout the area.
	Substation	Y	11	2022-05-09T09:30:48	2022-05-09T09:31:21	0:00:33	Rugby	Rugby	Weather	Stormy weather rolled through the area with lightning and heavy winds.
	Substation	RY	16	2022-05-09T13:37:46	2022-05-09T13:37:52	0:00:06	Rugby	Rugby	Weather	Stormy weather rolled through the area with lightning and heavy winds.
	Substation	RY	16	2022-06-20T02:25:25	2022-06-20T02:26:25	0:01:00	Rugby	Rugby	Unknown	SRep could not find a reason for the blink
	Substation	RY	16	2022-06-29T05:01:21	2022-06-29T05:01:29	0:00:08	Rugby	Rugby	Unknown	SReps could not find a reason for the quick blink's in the area
	Substation	RY	15	2022-07-02T23:02:41	2022-07-02T23:02:50	0:00:09	Rugby	Rugby	Unknown	SRep could not find a reason for short blink
	Substation	RY	16	2022-07-04T01:43:22	2022-07-04T01:43:31	0:00:09	Rugby	Rugby	Unknown	SRep could not find a reason for short blink
	Substation	RY	16	2022-07-10T05:10:03	2022-07-10T05:10:11	0:00:08	Rugby	Rugby	Weather	Storms rolled through the area causing damage throughout its path.
	Substation	R	12	2022-08-23T10:30:01	2022-08-23T10:30:11	0:00:10	Rugby	Rugby	Unknown	rain, lightning and high winds
	Substation	RY	16	2022-09-23T00:25:12	2022-09-23T00:25:21	0:00:09	Rugby	Rugby	Equip Fail Pole	Unknown.
	Substation	RY	16	2022-09-23T01:15:32	2022-09-23T01:20:45	0:05:13	Rugby	Rugby	Equip Fail Pole	Replace broken pole.
	Substation	RY	16	2022-12-12T20:38:12	2022-12-12T20:38:20	0:00:08	Rugby	Rugby	Equip Fail Insulator	Replace broken pole.
	Substation	RY	16	2022-12-15T07:58:59	2022-12-15T08:18:39	0:19:40	Rugby	Rugby	Weather	Insulator tracked across burning pole off
	Substation	RY	14	2022-12-15T13:13:57	2022-12-15T13:14:08	0:00:11	Rugby	Rugby	Weather	Icing conditions high winds/blizzard
	Substation	Y	11	2022-12-15T13:19:12	2022-12-15T13:19:17	0:00:05	Rugby	Rugby	Weather	Icing conditions high winds/blizzard
	Substation	Y	11	2022-12-15T18:14:06	2022-12-15T18:14:12	0:00:06	Rugby	Rugby	Weather	Icing conditions high winds/blizzard
	Substation	R	12	2022-12-15T18:27:49	2022-12-15T18:27:57	0:00:08	Rugby	Rugby	Weather	Icing conditions high winds/blizzard
	Substation	R	12	2022-12-15T18:29:22	2022-12-15T18:29:27	0:00:05	Rugby	Rugby	Weather	Icing conditions high winds/blizzard
	Substation	Y	11	2022-12-15T18:34:35	2022-12-15T18:34:41	0:00:06	Rugby	Rugby	Weather	Icing conditions high winds/blizzard
	Substation	R	12	2022-12-15T18:37:48	2022-12-15T18:37:53	0:00:05	Rugby	Rugby	Weather	Icing conditions high winds/blizzard
	Substation	R	12	2022-12-15T18:40:27	2022-12-15T18:40:32	0:00:05	Rugby	Rugby	Weather	Icing conditions high winds/blizzard
	Substation	RY	16	2022-12-16T04:58:43	2022-12-16T07:31:01	2:32:18	Rugby	Rugby	Weather	Icing conditions high winds/blizzard
	Substation	RY	16	2022-12-22T09:44:54	2022-12-22T10:06:18	0:21:24	Rugby	Rugby	Weather	Blizzard - high winds, ice and snow, broken phase, guy wires and other issues
	Substation	RY	16	2022-12-25T07:26:22	2022-12-25T07:26:33	0:00:11	Rugby	Rugby	Weather	Blizzard - high winds, ice and snow, broken phase, guy wires and other issues
	Substation	RY	16	2022-12-25T15:29:08	2022-12-25T15:29:25	0:00:17	Rugby	Rugby	Weather	Blizzard - high winds ice and snow - broken phase, guy wires...
	Feeder	RBY	483	2022-05-13T12:12:41	2022-05-13T12:12:57	0:00:16	Devils_Lake	Gardner_Ralph	Equip Fail Conductor	Broken conductor due to high winds and tree on the distribution
	Feeder	RBY	483	2022-05-13T14:37:51	2022-05-13T16:29:20	1:51:29	Devils_Lake	Gardner_Ralph	Vegetation	Due to high winds, Tree broke primary distribution wire
	Feeder	RBY	483	2022-06-02T01:23:48	2022-06-02T02:56:52	1:33:04	Devils_Lake	Gardner_Ralph	Equip Fail Underground	Faulted ug primary cable
	Feeder	RBY	483	2022-06-02T07:42:46	2022-06-02T08:14:43	0:31:57	Devils_Lake	Gardner_Ralph	Equip Fail Underground	Faulted ug primary cable
	Substation	RBY	1289	2022-06-21T03:13:17	2022-06-21T03:15:07	0:01:50	Devils_Lake	Gardner_Ralph	Equip Fail Substation	BAD REGULATOR
	Feeder	RBY	742	2022-03-17T08:08:20	2022-03-17T08:08:38	0:00:18	Devils_Lake	Gardner_Ralph	Equip Fail Conductor	UG Fault and frozen elbow
	Feeder	RBY	742	2022-05-12T09:35:05	2022-05-12T09:35:14	0:00:09	Devils_Lake	Gardner_Ralph	Weather	Storm system moved through with high wind, heavy rains and lightning.
	Feeder	RBY	742	2022-05-12T17:48:16	2022-05-12T17:48:22	0:00:06	Devils_Lake	Gardner_Ralph	Weather	Storm system moved through with high wind, heavy rains and lightning.
	Feeder	RBY	742	2022-06-14T08:10:26	2022-06-14T08:10:35	0:00:09	Devils_Lake	Gardner_Ralph	Weather	Severe thunderstorm moved through the area with high winds and lightning
	Feeder	RBY	742	2022-06-14T08:16:26	2022-06-14T08:17:07	0:00:41	Devils_Lake	Gardner_Ralph	Weather	Severe thunderstorm moved through the area with high winds and lightning
	Feeder	RBY	742	2022-06-14T08:19:21	2022-06-14T08:19:27	0:00:06	Devils_Lake	Gardner_Ralph	Weather	Severe thunderstorm moved through the area with high winds and lightning
	Feeder	RBY	742	2022-09-10T23:45:31	2022-09-10T23:45:44	0:00:13	Devils_Lake	Gardner_Ralph	Equip Fail Underground	Failing ug cable.
	Feeder	RBY	742	2022-09-12T08:27:04	2022-09-12T08:27:13	0:00:09	Devils_Lake	Gardner_Ralph	Equip Fail Underground	Failing ug cable.
	Feeder	RBY	742	2022-09-12T20:58:51	2022-09-12T20:59:55	0:01:04	Devils_Lake	Gardner_Ralph	Equip Fail Underground	Failing ug cable.
	Feeder	RBY	742	2022-10-15T23:56:56	2022-10-15T23:57:07	0:00:11	Devils_Lake	Gardner_Ralph	Unknown	Unknown
	Feeder	RBY	742	2022-11-03T21:26:51	2022-11-03T21:26:59	0:00:08	Devils_Lake	Gardner_Ralph	Unknown	Unknown
	Feeder	RBY	547	2022-03-30T09:56:42	2022-03-30T09:56:50	0:00:08	Devils_Lake	Gardner_Ralph	Unknown	Unknown

Equipment ID	Equipment Type	Phase(s)	Customers	Outage Start	Outage End	Duration	Customer Service Center	Region	Cause	Notes
	Feeder	RBY	547	2022-07-22T23:15:55	2022-07-22T23:16:05	0:00:10	Devils_Lake	Gardner_Ralph	Vegetation Equip Fail Fuse unknown	Broken conductor do to tree falling through the line from high winds./storm
	Feeder	B	185	2022-11-28T05:20:16	2022-11-28T06:06:09	0:45:53	Devils_Lake	Gardner_Ralph	Planned	High side fuse in substation blew
	Feeder	BYR	415	2022-03-17T04:00:17	2022-03-17T05:27:48	1:27:31	Devils_Lake	Gardner_Ralph	Planned	Installed new distribution switch. JCH audited 3/24/22
	Feeder	RBY	414	2022-03-18T03:59:18	2022-03-18T04:15:45	0:16:27	Devils_Lake	Gardner_Ralph	Planned	Installing new distribution switch
	Feeder	BYR	415	2022-05-27T10:17:46	2022-05-27T10:18:23	0:00:37	Devils_Lake	Gardner_Ralph	Equip Fail Underground	Elbow burnt up in jct cabinet.
	Feeder	RBY	414	2022-05-27T10:45:44	2022-05-27T11:30:45	0:45:01	Devils_Lake	Gardner_Ralph	Equip Fail Underground	Elbow burnt up in jct cabinet. Severe Weather including High winds, Freezing rain, Snow and rain caused Broken poles, switches, Xarms, wire and insulators leading to multiple power outages throughout the area.
	Substation	RBY	67	2022-04-23T18:01:09	2022-04-23T18:03:14	0:02:05	Rugby	Klein_Travis	Weather	Severe Weather including High winds, Freezing rain, Snow and rain caused Broken poles, switches, Xarms, wire and insulators leading to multiple power outages throughout the area. JCH Audited 4/30/22
	Substation	RBY	67	2022-04-23T22:29:05	2022-04-24T01:02:46	2:33:41	Rugby	Klein_Travis	Weather	Severe Weather including High winds, Freezing rain, Snow and rain caused Broken poles, switches, Xarms, wire and insulators leading to multiple power outages throughout the area.
	Substation	RBY	67	2022-04-24T08:47:00	2022-04-24T08:47:08	0:00:08	Rugby	Klein_Travis	Weather	Severe Weather including High winds, Freezing rain, Snow and rain caused Broken poles, switches, Xarms, wire and insulators leading to multiple power outages throughout the area.
	Substation	RBY	67	2022-04-24T08:47:50	2022-04-24T11:18:41	2:30:51	Rugby	Klein_Travis	Weather	Severe Weather including High winds, Freezing rain, Snow and rain caused Broken poles, switches, Xarms, wire and insulators leading to multiple power outages throughout the area. JCH Audited 4/30/22
	Substation	RBY	67	2022-04-24T13:16:20	2022-04-24T13:18:30	0:02:10	Rugby	Klein_Travis	Weather	Severe Weather including High winds, Freezing rain, Snow and rain caused Broken poles, switches, Xarms, wire and insulators leading to multiple power outages throughout the area.
	Substation	RBY	67	2022-04-24T14:49:58	2022-04-24T14:50:03	0:00:05	Rugby	Klein_Travis	Weather	Severe Weather including High winds, Freezing rain, Snow and rain caused Broken poles, switches, Xarms, wire and insulators leading to multiple power outages throughout the area.
	Substation	RBY	67	2022-04-24T15:53:17	2022-04-24T15:53:22	0:00:05	Rugby	Klein_Travis	Weather	Severe Weather including High winds, Freezing rain, Snow and rain caused Broken poles, switches, Xarms, wire and insulators leading to multiple power outages throughout the area.
	Substation	RBY	67	2022-04-24T17:47:14	2022-04-24T17:47:18	0:00:04	Rugby	Klein_Travis	Weather	Ice storm caused insulator's, Crossarms and pole damage.
	Substation	RBY	67	2022-05-07T19:19:11	2022-05-07T20:30:58	1:11:47	Rugby	Klein_Travis	Unknown	SRep could not find an exact reason for the blink.
	Substation	RBY	67	2022-06-24T17:05:32	2022-06-24T17:05:47	0:00:15	Rugby	Klein_Travis	Unknown	SRep could not find an exact reason for the blink.
	Substation	RBY	67	2022-06-24T17:45:39	2022-06-24T17:45:46	0:00:07	Rugby	Klein_Travis	Unknown	SRep could not find an exact reason for the blink.
	Substation	RBY	67	2022-07-09T08:33:56	2022-07-09T08:56:59	0:23:03	Rugby	Klein_Travis	Weather	Storms were rolling through the area. rain, high winds, lightning.
	Substation	RBY	67	2022-07-10T03:54:01	2022-07-10T03:54:08	0:00:07	Rugby	Klein_Travis	Weather	Storms rolled through the area causing damage throughout its path. rain, lightning and high winds
	Substation	RBY	67	2022-08-24T13:43:42	2022-08-24T13:43:50	0:00:08	Rugby	Klein_Travis	Unknown	Noticed Hawks East of Max ND that could have tripped breaker Yellow Phase cable faulted out of the warehouse sub which was seen on the transmission
	Substation	RBY	33	2022-01-08T02:46:52	2022-01-08T02:47:19	0:00:27	Devils_Lake	Eriksson_Lehmann_Gardner	Equip Fail Conductor	Unknown
	Substation	RBY	33	2022-03-14T22:56:42	2022-03-14T22:56:52	0:00:10	Devils_Lake	Eriksson_Lehmann_Gardner	Unknown	Unknown
	Substation	RBY	33	2022-05-12T18:00:32	2022-05-12T18:00:37	0:00:05	Devils_Lake	Eriksson_Lehmann_Gardner	Weather	Storm system moved through with high wind, heavy rains and lightning.
	Substation	RBY	33	2022-05-25T15:02:41	2022-05-25T15:02:47	0:00:06	Devils_Lake	Eriksson_Lehmann_Gardner	Unknown	Unknown
	Substation	RBY	33	2022-06-24T16:53:08	2022-06-24T16:53:15	0:00:07	Devils_Lake	Eriksson_Lehmann_Gardner	Weather	Severe storm moved through. Lightning struck 4 poles
	Substation	RBY	33	2022-08-18T03:22:20	2022-08-18T03:22:29	0:00:09	Devils_Lake	Eriksson_Lehmann_Gardner	Weather	Severe storms moved through the area
	Substation	RBY	33	2022-09-04T07:48:32	2022-09-04T07:48:40	0:00:08	Devils_Lake	Eriksson_Lehmann_Gardner	Unknown	Unknown
	Substation	RBY	253	2022-06-13T21:53:11	2022-06-13T21:55:44	0:02:33	Rugby	Dillow_James	Weather	Stormy weather with high winds traveled through the CSC causing blinks
	Substation	RBY	253	2022-06-13T22:16:28	2022-06-13T22:16:32	0:00:04	Rugby	Dillow_James	Weather	Stormy weather with high winds traveled through the CSC causing blinks
	Substation	RBY	253	2022-10-08T08:15:16	2022-10-08T08:15:37	0:00:21	Rugby	Dillow_James	Unknown	UNKNOWN
	Substation	RBY	253	2022-12-15T10:35:03	2022-12-15T10:35:10	0:00:07	Rugby	Dillow_James	Weather	Icing conditions high winds/blizzard
	Substation	RBY	253	2022-12-15T10:36:23	2022-12-15T10:36:30	0:00:07	Rugby	Dillow_James	Weather	Icing conditions high winds/blizzard
	Substation	RBY	253	2022-12-15T10:38:55	2022-12-15T11:28:10	0:49:15	Rugby	Dillow_James	Weather	Icing conditions high winds/blizzard
	Substation	RBY	507	2022-02-02T08:03:06	2022-02-02T08:21:27	0:18:21	Crookston	Mattern_Marlin	Equip Fail Other	Conductor broke at end of armor rod, line was not switched normally because of work be done in the Hensel area
	Substation	RBY	507	2022-02-02T08:53:10	2022-02-02T08:53:33	0:00:23	Crookston	Mattern_Marlin	other	Line switched to pick up outage and loading incorrect from source and line was overloaded and operated

Equipment ID	Equipment Type	Phase(s)	Customers	Outage Start	Outage End	Duration	Customer Service Center	Region	Cause	Notes
	Substation	RBY	507	2022-02-02T09:30:04	2022-02-02T09:30:26	0:00:22	Crookston	Mattern_Marlin	other	Line switched to pick up outage and loading incorrect from source and line was overloaded and operated
	Substation	RBY	507	2022-02-15T18:26:01	2022-02-15T18:26:22	0:00:21	Crookston	Mattern_Marlin		
	Substation	RBY	507	2022-09-15T04:36:56	2022-09-15T04:37:03	0:00:07	Crookston	Mattern_Marlin		
	Substation	RBY	507	2022-10-03T01:50:09	2022-10-03T01:50:18	0:00:09	Crookston	Mattern_Marlin		
	Substation	RBY	507	2022-10-11T16:46:14	2022-10-11T16:46:23	0:00:09	Crookston	Mattern_Marlin		
	Substation	RBY	507	2022-10-11T18:02:20	2022-10-11T18:03:29	0:01:09	Crookston	Mattern_Marlin		
	Substation	RBY	507	2022-10-12T14:17:50	2022-10-12T14:18:01	0:00:11	Crookston	Mattern_Marlin		
	Substation	RBY	507	2022-10-12T14:23:01	2022-10-12T14:24:09	0:01:08	Crookston	Mattern_Marlin		
	Substation	RBY	507	2022-10-12T14:24:57	2022-10-12T14:45:12	0:20:15	Crookston	Mattern_Marlin	Equip Fail Insulator	Insulator failed and burnt top of pole off
	Substation	RBY	507	2022-12-07T04:43:16	2022-12-07T05:07:40	0:24:24	Crookston	Mattern_Marlin		
	Feeder	RBY	339	2022-01-10T17:03:04	2022-01-10T17:25:10	0:22:06	Crookston	Mattern_Marlin		
	Feeder	RBY	339	2022-01-11T08:16:13	2022-01-11T08:17:11	0:00:58	Crookston	Mattern_Marlin		
	Feeder	RBY	339	2022-05-03T10:42:18	2022-05-03T10:42:25	0:00:07	Crookston	Mattern_Marlin		
	Feeder	RBY	339	2022-06-25T14:17:19	2022-06-25T15:49:17	1:31:58	Crookston	Mattern_Marlin	Vegetation	Tree across line and failed cutout and arrestor due to storm
	Feeder	RBY	339	2022-06-30T06:46:29	2022-06-30T06:47:30	0:01:01	Crookston	Mattern_Marlin		
	Feeder	RBY	339	2022-08-30T11:12:27	2022-08-30T11:12:34	0:00:07	Crookston	Mattern_Marlin		
	Substation	RBY	89	2022-04-24T12:55:25	2022-04-24T13:01:06	0:05:41	Devils_Lake	Hetletved_Kyle	Weather	Significant thunder storm/ice storm/extremely high wind event - lines slapping together, trees, icing galloping lines, broken ties, broken insulators, broken poles.
	Substation	RBY	89	2022-04-24T13:03:17	2022-04-24T13:37:16	0:33:59	Devils_Lake	Hetletved_Kyle	Weather	Significant thunder storm/ice storm/extremely high wind event - lines slapping together, trees, icing galloping lines, broken ties, broken insulators, broken poles.
	Substation	RBY	89	2022-05-29T09:54:36	2022-05-29T11:24:16	1:29:40	Devils_Lake	Hetletved_Kyle	Equip Fail Insulator	Insulator tracked across burning cross arm off.
	Substation	RBY	89	2022-06-14T01:16:02	2022-06-14T01:16:09	0:00:07	Devils_Lake	Hetletved_Kyle	Weather	Severe thunderstorm moved through the area with high winds and lightning
	Substation	RBY	89	2022-07-09T21:20:59	2022-07-09T21:21:07	0:00:08	Devils_Lake	Hetletved_Kyle	Unknown	Unknown
	Substation	RBY	89	2022-07-15T20:18:15	2022-07-15T20:18:20	0:00:05	Devils_Lake	Hetletved_Kyle	Unknown	Unknown
	Substation	RBY	89	2022-07-18T03:20:41	2022-07-18T03:20:48	0:00:07	Devils_Lake	Hetletved_Kyle	Weather	Weather system moved through with wind and lightning
	Substation	RBY	89	2022-07-18T03:31:51	2022-07-18T03:31:58	0:00:07	Devils_Lake	Hetletved_Kyle	Weather	Weather system moved through with wind and lightning
	Substation	RBY	89	2022-07-18T03:39:35	2022-07-18T03:39:42	0:00:07	Devils_Lake	Hetletved_Kyle	Weather	Weather system moved through with wind and lightning
	Substation	RBY	89	2022-07-19T14:06:10	2022-07-19T14:07:12	0:01:02	Devils_Lake	Hetletved_Kyle	Weather	Thunder storm and heavy rain moved through the area.
	Substation	RBY	89	2022-07-19T15:55:21	2022-07-19T15:55:29	0:00:08	Devils_Lake	Hetletved_Kyle	Weather	Thunder storm and heavy rain moved through the area.
	Substation	RBY	89	2022-07-19T15:56:52	2022-07-19T15:56:59	0:00:07	Devils_Lake	Hetletved_Kyle	Weather	Thunder storm and heavy rain moved through the area.
	Substation	RBY	89	2022-07-22T23:38:48	2022-07-23T00:43:33	1:04:45	Devils_Lake	Hetletved_Kyle	Lightning	Lightning struck Minnkota 115kv substation that feeds Langdon. Issues with breaker
	Substation	RBY	89	2022-08-03T14:05:12	2022-08-03T15:25:00	1:19:48	Devils_Lake	Hetletved_Kyle	Vehicle Accident	Farmer broke a pole
	Substation	RBY	89	2022-08-05T07:43:30	2022-08-05T07:43:37	0:00:07	Devils_Lake	Hetletved_Kyle	Unknown	Unknown
	Substation	RBY	89	2022-08-18T01:12:37	2022-08-18T01:12:47	0:00:10	Devils_Lake	Hetletved_Kyle	Weather	Severe storms moved through the area
	Substation	RBY	89	2022-10-24T02:54:03	2022-10-24T02:54:21	0:00:18	Devils_Lake	Hetletved_Kyle	Weather	Storm system moved through the area
	Substation	RBY	89	2022-10-24T02:57:53	2022-10-24T02:58:00	0:00:07	Devils_Lake	Hetletved_Kyle	Weather	Storm system moved through the area
	Substation	RBY	89	2022-11-08T08:58:01	2022-11-08T08:58:08	0:00:07	Devils_Lake	Hetletved_Kyle	Unknown	Unknown
	Substation	RBY	89	2022-12-12T10:00:41	2022-12-12T10:01:17	0:00:36	Devils_Lake	Hetletved_Kyle	Equip Fail Substation	Breaker failed in substation
	Substation	RBY	89	2022-12-23T19:43:21	2022-12-23T21:00:03	1:16:42	Devils_Lake	Hetletved_Kyle	Weather	Blizzard conditions combined with icing and high winds caused excess of 100 floaters on different line sections
	Substation	RBY	89	2022-12-29T10:26:30	2022-12-29T12:09:45	1:43:15	Devils_Lake	Hetletved_Kyle	Equip Fail Insulator	Floaters from icing/wind.
	Substation	RBY	89	2022-12-29T12:11:09	2022-12-29T13:50:42	1:39:33	Devils_Lake	Hetletved_Kyle	Equip Fail Insulator	Floaters from icing/wind.
	Substation	R	2	2022-05-12T07:07:58	2022-05-12T07:08:05	0:00:07	Rugby	Schell_Peary	Weather	Stormy weather rolled through the area.
	Substation	R	2	2022-07-19T02:29:20	2022-07-19T02:29:28	0:00:08	Rugby	Schell_Peary	Vegetation	Top of an evergreen broke off and ripped line down and caused phase to ground short due to high winds.
	Substation	R	2	2022-07-19T02:31:39	2022-07-19T02:31:45	0:00:06	Rugby	Schell_Peary	Vegetation	Top of an evergreen broke off and ripped line down and caused phase to ground short due to high winds.
	Substation	R	2	2022-07-23T02:21:28	2022-07-23T02:21:34	0:00:06	Rugby	Schell_Peary	Weather	Storm moving through - high winds and lightning
	Substation	R	2	2022-09-24T04:17:53	2022-09-24T05:49:49	1:31:56	Rugby	Schell_Peary	Equip Fail Insulator	Failed insulator
	Substation	R	2	2022-10-05T11:19:11	2022-10-05T12:03:28	0:44:17	Rugby	Schell_Peary	Unknown	Unknown
	Substation	RBY	432	2022-04-23T18:02:33	2022-04-23T18:57:46	0:55:13	Rugby	Derr_John	Weather	Severe Weather including High winds, Freezing rain, Snow and rain caused Broken poles, switches, Xarms, wire and insulators leading to multiple power outages throughout the area.
	Substation	RBY	432	2022-04-24T08:07:43	2022-04-24T08:07:52	0:00:09	Rugby	Derr_John	Weather	Severe Weather including High winds, Freezing rain, Snow and rain caused Broken poles, switches, Xarms, wire and insulators leading to multiple power outages throughout the area.
	Substation	RBY	432	2022-05-09T06:15:30	2022-05-09T06:15:54	0:00:24	Rugby	Derr_John	Weather	Stormy weather rolled through the area with lightning and heavy winds.
	Substation	RBY	432	2022-05-31T02:08:54	2022-05-31T02:09:10	0:00:16	Rugby	Derr_John	Unknown	SRep could not find an exact reason for the blink.

Equipment ID	Equipment Type	Phase(s)	Customers	Outage Start	Outage End	Duration	Customer Service Center	Region	Cause	Notes
	Substation	RBY	432	2022-07-10T21:28:20	2022-07-10T21:29:23	0:01:03	Rugby	Derr_John	Weather	Storms rolled through the area causing damage throughout its path. rain, lightning and high winds
	Substation	RBY	432	2022-07-10T21:32:28	2022-07-10T21:32:34	0:00:06	Rugby	Derr_John	Weather	Storms rolled through the area causing damage throughout its path. rain, lightning and high winds
	Substation	RBY	432	2022-07-19T03:19:36	2022-07-19T05:24:18	2:04:42	Rugby	Derr_John	Vegetation	Top of an evergreen broke off and ripped line down and caused phase to ground short due to high winds. JCH Audited 7/28/22
	Substation	RBY	432	2022-07-22T21:07:29	2022-07-22T21:07:33	0:00:04	Rugby	Derr_John	Weather	Storm moving through - high winds and lightning
	Substation	RBY	432	2022-07-22T21:30:26	2022-07-22T21:30:31	0:00:05	Rugby	Derr_John	Weather	Storm moving through - high winds and lightning
	Substation	RBY	432	2022-07-22T21:57:36	2022-07-22T21:57:43	0:00:07	Rugby	Derr_John	Weather	Storm moving through - high winds and lightning
	Substation	RBY	432	2022-07-22T21:58:21	2022-07-22T21:58:24	0:00:03	Rugby	Derr_John	Weather	Storm moving through - high winds and lightning
	Substation	RBY	432	2022-07-22T22:15:59	2022-07-22T22:17:01	0:01:02	Rugby	Derr_John	Weather	Storm moving through - high winds and lightning
	Substation	RBY	432	2022-08-23T18:17:13	2022-08-23T18:17:20	0:00:07	Rugby	Derr_John	Unknown	Unknown.
	Substation	RBY	432	2022-10-08T08:59:46	2022-10-08T08:59:55	0:00:09	Rugby	Derr_John	Unknown	UNKNOWN
	Substation	RBY	56	2022-05-09T05:56:51	2022-05-09T05:57:17	0:00:26	Wahpeton	Wahpeton	Weather	Strong thunderstorms with lots of lightning and heavy rain in the area.
	Substation	RY	34	2022-06-14T05:41:08	2022-06-14T05:41:22	0:00:14	Wahpeton	Wahpeton	Weather	Strong storms with lightning in the area.
	Substation	BRY	56	2022-07-22T12:59:12	2022-07-22T12:59:28	0:00:16	Wahpeton	Wahpeton	Bird	Bird in Galcutt sub caused blink
	Substation	BRY	56	2022-07-31T04:29:06	2022-07-31T04:29:24	0:00:18	Wahpeton	Wahpeton	Weather	Storms with lots of lightning in the area.
	Substation	RBY	56	2022-09-02T20:13:08	2022-09-02T20:13:31	0:00:23	Wahpeton	Wahpeton	Unknown	No customer calls, 41.6 breaker operated we will patrol when we get time.
	Substation	BRY	56	2022-09-29T13:53:11	2022-09-29T13:53:29	0:00:18	Wahpeton	Wahpeton	other	OTP relay techs tripped out breaker while working in the Wahpeton 230 sub.
	Substation	RBY	38	2022-04-22T23:23:54	2022-04-23T09:05:23	9:41:29	Jamestown	Erickson_Joe	Itron meter voltage source failure	Storms in the area. Correction-Only involved 1 customer, a radio station. Eckelson customers did not have an outage. JCH audited 4/27/22
	Substation	RBY	38	2022-06-14T06:03:52	2022-06-14T06:04:01	0:00:09	Jamestown	Erickson_Joe	Weather	Storm in the area.
	Substation	RBY	38	2022-06-20T18:46:26	2022-06-20T18:47:34	0:01:08	Jamestown	Erickson_Joe	Weather	Storms in the area.
	Substation	RBY	38	2022-06-24T20:17:55	2022-06-24T20:18:02	0:00:07	Jamestown	Erickson_Joe	Weather	Storm in the area.
	Substation	RBY	38	2022-07-18T21:33:44	2022-07-18T21:34:50	0:01:06	Jamestown	Erickson_Joe	Weather	Storm passing through the area.
	Substation	RBY	38	2022-09-21T09:51:18	2022-09-21T10:01:12	0:09:54	Jamestown	Erickson_Joe	Unknown	Unknown and not investigated.
	Substation	RBY	162	2022-02-02T08:03:14	2022-02-02T08:21:21	0:18:07	Devils_Lake	Stabo_Tim	Equip Fail Conductor	Broken conductor on 41.6kv line. Abnormal switching caused to much load causing breaker to operate several times.
	Substation	RBY	162	2022-02-02T08:53:20	2022-02-02T08:53:27	0:00:07	Devils_Lake	Stabo_Tim	Equip Fail Conductor	Broken conductor on 41.6kv line. Abnormal switching caused to much load causing breaker to operate several times.
	Substation	RBY	162	2022-02-02T09:30:13	2022-02-02T09:30:20	0:00:07	Devils_Lake	Stabo_Tim	Equip Fail Conductor	Broken conductor on 41.6kv line.
	Substation	RBY	162	2022-02-15T18:26:06	2022-02-15T18:26:16	0:00:10	Devils_Lake	Stabo_Tim	Unknown	Unknown - high wind and blizzard conditions
	Substation	RBY	162	2022-05-13T11:41:04	2022-05-13T11:41:11	0:00:07	Devils_Lake	Stabo_Tim	Equip Fail Other	Broken Nodak guy wire slapping our distribution in the high winds.
	Substation	RBY	162	2022-05-13T12:18:06	2022-05-13T12:18:11	0:00:05	Devils_Lake	Stabo_Tim	Equip Fail Other	Broken Nodak guy wire slapping our distribution in the high winds.
	Substation	RBY	162	2022-05-13T12:51:27	2022-05-13T12:51:33	0:00:06	Devils_Lake	Stabo_Tim	Equip Fail Other	Broken guy wire of Nodak's was slapping our distribution due to high winds.
	Substation	RBY	162	2022-05-13T15:13:45	2022-05-13T15:13:49	0:00:04	Devils_Lake	Stabo_Tim	Equip Fail Other	Broken guy wire of Nodak's was slapping our distribution due to high winds.
	Substation	RBY	162	2022-05-13T15:33:51	2022-05-13T15:33:57	0:00:06	Devils_Lake	Stabo_Tim	Equip Fail Other	Broken guy wire of Nodak's was slapping our distribution due to high winds.
	Substation	RBY	162	2022-05-13T16:48:45	2022-05-13T16:48:51	0:00:06	Devils_Lake	Stabo_Tim	Weather	50 - 60 mile an hour winds causing long span to slap together.
	Substation	RBY	162	2022-06-18T14:52:37	2022-06-18T14:53:01	0:00:24	Devils_Lake	Stabo_Tim	Vegetation	Tree in the line
	Substation	RBY	162	2022-06-18T14:54:14	2022-06-18T18:01:36	3:07:22	Devils_Lake	Stabo_Tim	Vegetation	Tree in the line. JCH audited 6/28/2022
	Substation	RBY	162	2022-06-24T15:01:56	2022-06-24T15:03:25	0:01:29	Devils_Lake	Stabo_Tim	Weather	Severe weather moved through the area. Wind and Lightning.
	Substation	RBY	162	2022-06-24T15:04:33	2022-06-24T15:11:50	0:07:17	Devils_Lake	Stabo_Tim	Weather	Severe weather moved through the area. Wind and Lightning.
	Substation	RBY	162	2022-06-24T15:16:39	2022-06-24T15:16:45	0:00:06	Devils_Lake	Stabo_Tim	Weather	Severe weather moved through the area. Wind and Lightning.
	Substation	RBY	162	2022-07-14T19:10:49	2022-07-14T19:10:56	0:00:07	Devils_Lake	Stabo_Tim	Unknown	Unknown
	Substation	RBY	162	2022-07-20T07:53:59	2022-07-20T07:54:05	0:00:06	Devils_Lake	Stabo_Tim	Unknown	unknown
	Substation	RBY	162	2022-07-22T23:46:39	2022-07-22T23:46:46	0:00:07	Devils_Lake	Stabo_Tim	Weather	Storm moving through - high winds and lightning
	Substation	RBY	162	2022-07-23T00:02:54	2022-07-23T00:03:01	0:00:07	Devils_Lake	Stabo_Tim	Weather	Storm moving through - high winds and lightning
	Substation	RBY	162	2022-07-23T00:04:50	2022-07-23T00:04:56	0:00:06	Devils_Lake	Stabo_Tim	Weather	Storm moving through - high winds and lightning
	Substation	RBY	162	2022-07-23T00:12:06	2022-07-23T00:12:13	0:00:07	Devils_Lake	Stabo_Tim	Weather	Storm moving through with high winds and lightning
	Substation	RBY	162	2022-07-29T01:29:28	2022-07-29T01:29:34	0:00:06	Devils_Lake	Stabo_Tim	Unknown	Unknown
	Substation	RBY	162	2022-08-18T04:21:36	2022-08-18T04:22:38	0:01:02	Devils_Lake	Stabo_Tim	Weather	Severe storms moved through the area
	Substation	RBY	162	2022-08-18T11:22:55	2022-08-18T11:23:00	0:00:05	Devils_Lake	Stabo_Tim	Weather	Severe storms moved through the area
	Substation	RBY	162	2022-08-29T14:00:42	2022-08-29T14:00:48	0:00:06	Devils_Lake	Stabo_Tim	Unknown	Unknown
	Substation	RBY	162	2022-09-07T22:56:02	2022-09-07T22:57:13	0:01:11	Devils_Lake	Stabo_Tim	Unknown	Unknown
	Substation	RBY	162	2022-09-21T00:22:39	2022-09-21T00:22:44	0:00:05	Devils_Lake	Stabo_Tim	Unknown	Unknown



Equipment ID	Equipment Type	Phase(s)	Customers	Outage Start	Outage End	Duration	Customer Service Center	Region	Cause	Notes
	Substation	Y	4	2022-11-12T08:01:24	2022-11-12T08:04:23	0:02:59	Rugby	Voeller_Dave	Weather	Icing and wind
	Substation	Y	4	2022-12-12T08:31:01	2022-12-12T08:31:58	0:00:57	Rugby	Voeller_Dave	Equip Fail Pole	Broken pole
	Substation	Y	4	2022-12-12T10:02:19	2022-12-12T10:03:13	0:00:54	Rugby	Voeller_Dave	Equip Fail Pole	Broken pole
	Substation	Y	4	2022-12-12T10:08:39	2022-12-12T12:01:55	1:53:16	Rugby	Voeller_Dave	Equip Fail Pole	Broken pole Severe Weather including High winds, Freezing rain, Snow and rain caused Broken poles, switches, Xarms, wire and insulators leading to multiple power outages throughout the area.
	Substation	BYR	7	2022-04-23T15:28:55	2022-04-23T15:29:05	0:00:10	Rugby	Voeller_Dave	Weather	
	Substation	BYR	7	2022-05-09T01:14:41	2022-05-09T01:14:53	0:00:12	Rugby	Voeller_Dave	Weather	Stormy weather rolled through the area with lightning and heavy winds. Stormy weather with high winds traveled through the CSC causing blinks
	Substation	BY	3	2022-06-14T04:55:26	2022-06-14T04:55:34	0:00:08	Rugby	Voeller_Dave	Weather	
	Substation	BY	3	2022-06-14T04:58:16	2022-06-14T08:06:17	3:08:01	Rugby	Voeller_Dave	Equip Fail Pole	Lightning hit a pole and knocked out the line. JCH Audited 7/28/22
	Substation	BY	3	2022-06-24T14:55:16	2022-06-24T16:25:13	1:29:57	Rugby	Voeller_Dave	Equip Fail Cutout	Cutout failed and needed to be replaced. Substation Xformer failed. Had to have one brought from Central Stores and be replaced. JCH Audited 7/28/22
	Substation	BY	3	2022-06-24T16:31:06	2022-06-25T00:41:45	8:10:39	Rugby	Voeller_Dave	Equip Fail Substation	Storms rolled through the area causing damage throughout its path. rain, lightning and high winds
	Substation	BY	3	2022-07-10T06:10:32	2022-07-10T06:11:34	0:01:02	Rugby	Voeller_Dave	Weather Equip Fail Fuse unknown	
	Substation	BY	3	2022-07-18T20:45:01	2022-07-18T21:46:55	1:01:54	Rugby	Voeller_Dave	cause	Fuse blew and tripped line. Could not find exact cause.
	Substation	BY	3	2022-08-15T11:16:46	2022-08-15T11:16:52	0:00:06	Rugby	Voeller_Dave	Weather	Storm cell moved through the area.
	Substation	BY	3	2022-08-26T15:32:17	2022-08-26T15:32:24	0:00:07	Rugby	Voeller_Dave	Unknown	Unknown
	Substation	BYR	7	2022-11-12T08:01:19	2022-11-12T08:04:00	0:02:41	Rugby	Voeller_Dave	Weather	Icing and wind
	Substation	BYR	7	2022-12-12T08:30:54	2022-12-12T08:31:12	0:00:18	Rugby	Voeller_Dave	Equip Fail Pole	Broken pole
	Substation	BYR	7	2022-12-12T10:02:12	2022-12-12T10:02:30	0:00:18	Rugby	Voeller_Dave	Equip Fail Pole	Broken pole
	Substation	BYR	7	2022-12-12T10:08:33	2022-12-12T12:01:30	1:52:57	Rugby	Voeller_Dave	Equip Fail Pole	Broken pole
	Substation	BRY	825	2022-08-26T20:45:43	2022-08-26T20:46:07	0:00:24	Wahpeton	Toso_Mark	Weather	Storms with lightning in the area
	Substation	BRY	825	2022-10-12T11:52:36	2022-10-12T11:53:09	0:00:33	Wahpeton	Toso_Mark	Animal	Bird on an insulator
	Substation	BRY	825	2022-10-16T08:44:44	2022-10-16T08:45:13	0:00:29	Wahpeton	Toso_Mark	Unknown	We are patrolling the line to try and find something.
	Substation	BRY	825	2022-11-09T17:03:35	2022-11-09T17:04:34	0:00:59	Wahpeton	Toso_Mark	Weather	Ice on lines caused multiple outages
	Substation	BRY	824	2022-11-09T17:26:36	2022-11-09T17:27:05	0:00:29	Wahpeton	Toso_Mark	Weather	Ice on lines caused multiple outages
	Substation	BRY	825	2022-11-09T17:27:56	2022-11-09T17:28:30	0:00:34	Wahpeton	Toso_Mark	Weather	Ice on lines caused multiple outages
	Substation	BRY	825	2022-11-09T18:30:27	2022-11-09T18:30:57	0:00:30	Wahpeton	Toso_Mark	Weather	Ice on lines caused multiple outages
	Substation	BRY	821	2022-11-09T21:31:19	2022-11-09T21:31:49	0:00:30	Wahpeton	Toso_Mark	Weather	Ice on lines caused multiple outages
	Substation	BRY	824	2022-11-09T21:49:05	2022-11-09T21:49:35	0:00:30	Wahpeton	Toso_Mark	Weather	Ice on lines caused multiple outages
	Substation	BRY	825	2022-12-13T19:26:17	2022-12-13T19:27:09	0:00:52	Wahpeton	Toso_Mark	Weather	Ice and snow on lines caused numourous outages.
	Substation	BRY	825	2022-12-13T19:44:54	2022-12-13T19:45:39	0:00:45	Wahpeton	Toso_Mark	Weather	Ice and snow on lines caused numourous outages.
	SubstationBank	RBY	701	2022-02-07T13:14:20	2022-02-07T13:14:27	0:00:07	Wahpeton	Toso_Mark	Unknown	No customer calls
	SubstationBank	RBY	701	2022-05-03T05:00:09	2022-05-03T05:00:20	0:00:11	Wahpeton	Toso_Mark	Itron meter failure	City did not see a blink according to city personnel. Several strong storms went through the area with high winds and lightning.
	SubstationBank	RBY	701	2022-05-30T17:13:51	2022-05-30T17:13:59	0:00:08	Wahpeton	Toso_Mark	Weather	
	SubstationBank	RBY	701	2022-07-05T19:16:36	2022-07-05T19:17:37	0:01:01	Wahpeton	Toso_Mark		
	SubstationBank	RBY	701	2022-07-05T19:21:23	2022-07-05T19:21:32	0:00:09	Wahpeton	Toso_Mark		
	SubstationBank	RBY	701	2022-07-28T11:30:09	2022-07-28T11:30:16	0:00:07	Wahpeton	Toso_Mark	Weather	Small storm cell with lightning caused outage.
	SubstationBank	RBY	701	2022-08-28T13:10:17	2022-08-28T13:10:25	0:00:08	Wahpeton	Toso_Mark	Weather	Storms with lightning in the area
	SubstationBank	RBY	701	2022-12-14T10:24:50	2022-12-14T10:25:45	0:00:55	Wahpeton	Toso_Mark	Weather	Ice and snow on lines caused numourous outages.
	SubstationBank	RBY	701	2022-12-14T10:46:14	2022-12-14T10:46:22	0:00:08	Wahpeton	Toso_Mark	Weather	Ice and snow on lines caused numourous outages.
	Feeder	Y	1	2022-05-25T11:30:25	2022-05-25T13:56:51	2:26:26	Wahpeton	Toso_Mark	Itron meter voltage source failure	No idea we had no calls so we did not have outage.
	Feeder	BRY	3	2022-06-22T16:02:45	2022-06-22T16:03:02	0:00:17	Wahpeton	Toso_Mark	Unknown	No customer calls
	Feeder	BRY	3	2022-06-23T20:31:48	2022-06-23T23:47:45	3:15:57	Wahpeton	Toso_Mark	Equip Fail Arrester	1 customer was out on this outage. JCH audited 7/25/22
	Feeder	RY	2	2022-08-17T08:54:53	2022-08-17T08:55:05	0:00:12	Wahpeton	Toso_Mark	Weather	Storms took down some trees on Shledon line.
	Feeder	B	1	2022-08-17T08:55:07	2022-08-17T08:55:15	0:00:08	Wahpeton	Toso_Mark	Weather	Storms took down some trees on Shledon line.
	Feeder	RY	2	2022-08-17T11:54:55	2022-08-17T11:55:07	0:00:12	Wahpeton	Toso_Mark	Animal	Squirrel on transformer
	Feeder	B	1	2022-08-17T11:55:10	2022-08-17T11:55:17	0:00:07	Wahpeton	Toso_Mark	Animal	Squirrel on transformer
	Substation	BR	38	2022-04-19T10:12:37	2022-04-19T11:48:03	1:35:26	Jamestown	Atkinson_Tom	Equip Fail Insulator	Broken insulator approximately 1 mile south of the Galesburg/Clifford sub.
	Substation	BR	38	2022-04-22T22:49:14	2022-04-22T22:49:26	0:00:12	Jamestown	Atkinson_Tom	Weather	Storms in the area.
	Substation	BR	38	2022-06-14T06:43:23	2022-06-14T06:44:25	0:01:02	Jamestown	Atkinson_Tom	Weather	Storm in the area.
	Substation	BR	37	2022-07-10T07:56:00	2022-07-10T07:56:08	0:00:08	Jamestown	Atkinson_Tom	Weather	Storms with strong winds, rain, lightning.
	Substation	BR	38	2022-07-13T08:27:09	2022-07-13T08:27:17	0:00:08	Jamestown	Atkinson_Tom	Equip Fail Cutout	Failed cutout by Mewes Farms east of Colgate.
	Substation	BR	38	2022-07-21T19:06:14	2022-07-21T19:06:25	0:00:11	Jamestown	Atkinson_Tom	Weather	Storm in the area.
	Substation	BR	38	2022-08-28T00:00:32	2022-08-28T00:00:44	0:00:12	Jamestown	Atkinson_Tom	Unknown	Line patrolled but no cause found.
	Substation	BR	38	2022-09-03T07:55:43	2022-09-03T11:21:36	3:25:53	Jamestown	Atkinson_Tom	Itron meter voltage source failure	Poor cell coverage area. No known outage.

Equipment ID	Equipment Type	Phase(s)	Customers	Outage Start	Outage End	Duration	Customer Service Center	Region	Cause	Notes
	Substation	RBY	146	2022-05-30T19:34:57	2022-05-30T19:35:04	0:00:07	Rugby	Peterson_Paul	Unknown	SRep could not find an exact reason for the blink.
	Substation	RBY	146	2022-06-24T17:04:36	2022-06-24T17:04:42	0:00:06	Rugby	Peterson_Paul	Unknown	SRep could not find an exact reason for the blink.
	Substation	RBY	146	2022-07-06T16:16:54	2022-07-06T16:16:59	0:00:05	Rugby	Peterson_Paul	Equip Fail Cutout	Highside cutout failed and needed to be fixed
	Substation	RBY	146	2022-07-19T03:26:18	2022-07-19T03:31:19	0:05:01	Rugby	Peterson_Paul	Bird	Bird caused fault
	Substation	RBY	146	2022-07-22T22:15:56	2022-07-22T22:16:58	0:01:02	Rugby	Peterson_Paul	Weather	Storm moving through - high winds and lightning
	Substation	RBY	146	2022-08-18T20:10:50	2022-08-18T20:11:54	0:01:04	Rugby	Peterson_Paul	Unknown	Unknown
	Substation	RBY	146	2022-12-27T13:36:31	2022-12-27T14:47:28	1:10:57	Rugby	Peterson_Paul	Equip Fail Insulator	Floater
	Substation	BRY	46	2022-02-02T08:53:11	2022-02-02T08:54:12	0:01:01	Devils_Lake	Stabo_Tim	Equip Fail Conductor	Broken conductor on 41.6kv line. Abnormal switching caused to much load causing breaker to operate several times.
	Substation	BRY	45	2022-02-02T09:30:01	2022-02-02T09:30:25	0:00:24	Devils_Lake	Stabo_Tim	Equip Fail Conductor	Broken conductor on 41.6kv line.
	Substation	R	24	2022-04-27T17:22:52	2022-04-27T17:22:56	0:00:04	Devils_Lake	Stabo_Tim		
	Substation	Y	5	2022-04-27T17:22:59	2022-04-27T17:23:04	0:00:05	Devils_Lake	Stabo_Tim		
	Substation	B	17	2022-04-27T17:23:11	2022-04-27T17:23:15	0:00:04	Devils_Lake	Stabo_Tim		
	Substation	BRY	46	2022-05-08T17:45:20	2022-05-08T18:36:21	0:51:01	Devils_Lake	Stabo_Tim	Vegetation	Tree blew into line from storm.
	Substation	R	24	2022-06-04T08:40:06	2022-06-04T10:38:43	1:58:37	Devils_Lake	Stabo_Tim	Animal	Squirrel blew a fuse. JCH audited 6/28/2022
	Substation	BRY	46	2022-06-24T14:17:52	2022-06-24T14:18:08	0:00:16	Devils_Lake	Stabo_Tim	Weather	Severe weather moved through the area. Wind and Lightning.
	Substation	BRY	45	2022-07-22T23:36:49	2022-07-23T02:35:09	2:58:20	Devils_Lake	Stabo_Tim	Vegetation	Trees broke 41.6kv conductor due to high winds.JCH Audited 7/28/22
	Substation	BRY	46	2022-07-26T02:11:39	2022-07-26T02:11:56	0:00:17	Devils_Lake	Stabo_Tim	Weather	Storm cell moved through
	Substation	R	24	2022-08-15T10:43:22	2022-08-15T10:44:27	0:01:05	Devils_Lake	Stabo_Tim	Weather	Storm moved through area.
	Substation	R	24	2022-08-15T11:27:59	2022-08-15T13:18:40	1:50:41	Devils_Lake	Stabo_Tim	Equip Fail Fuse unknown cause	Fuse blown - storm moved through
	Substation	R	24	2022-08-15T13:44:50	2022-08-15T15:11:10	1:26:20	Devils_Lake	Stabo_Tim	Equip Fail Fuse unknown cause	Fuse blown - storm moved through
	Substation	BRY	46	2022-08-29T10:06:58	2022-08-29T10:07:12	0:00:14	Devils_Lake	Stabo_Tim	Unknown	Uknown
	Substation	Y	57	2022-05-12T19:28:54	2022-05-12T19:29:21	0:00:27	Wahpeton	Smith_Ryan	Weather	Strong storms with straight line winds caused extensive tree damage and several poles to break.
	Substation	Y	57	2022-06-20T22:51:24	2022-06-21T00:00:08	1:08:44	Wahpeton	Smith_Ryan	Weather	Strong storms with high winds and lightning went through the area.
	Substation	Y	57	2022-06-24T23:12:33	2022-06-24T23:13:02	0:00:29	Wahpeton	Smith_Ryan	Weather	Strong storms with high winds and lightning in the area.
	Feeder	RB	225	2022-05-12T19:28:57	2022-05-12T19:29:21	0:00:24	Wahpeton	Smith_Ryan	Weather	Strong storms with straight line winds caused extensive tree damage and several poles to break.
	Feeder	RB	249	2022-06-20T22:51:24	2022-06-21T00:00:08	1:08:44	Wahpeton	Smith_Ryan	Weather	Strong storms with high winds and lightning went through the area.
	Feeder	RB	249	2022-06-24T23:12:33	2022-06-24T23:13:02	0:00:29	Wahpeton	Smith_Ryan	Weather	Strong storms with high winds and lightning in the area.
	Feeder	Y	1	2022-10-29T19:37:01	2022-10-29T19:37:06	0:00:05	Wahpeton	Smith_Ryan	Vehicle Accident	Car went into ditch and broke a pole off
	Substation	RBY	31	2022-04-24T08:21:27	2022-04-24T08:21:37	0:00:10	Rugby	Gravseth_Chad	Weather	Severe Weather including High winds, Freezing rain, Snow and rain caused Broken poles, switches, Xarms, wire and insulators leading to multiple power outages throughout the area.
	Substation	RBY	31	2022-04-24T08:22:30	2022-04-24T08:34:02	0:11:32	Rugby	Gravseth_Chad	Weather	Severe Weather including High winds, Freezing rain, Snow and rain caused Broken poles, switches, Xarms, wire and insulators leading to multiple power outages throughout the area.
	Substation	RBY	31	2022-12-25T07:26:34	2022-12-25T07:26:45	0:00:11	Rugby	Gravseth_Chad	Weather	Blizzard - high winds ice and snow - broken phase, guy wires...
	Substation	RBY	31	2022-12-25T15:29:09	2022-12-25T15:29:36	0:00:27	Rugby	Gravseth_Chad	Weather	Blizzard - high winds ice and snow - broken phase, guy wires...
	Substation	RBY	453	2022-06-13T22:16:28	2022-06-13T22:16:50	0:00:22	Rugby	Voeller_Dave	Weather	Stormy weather with high winds traveled through the CSC causing blinks
	Substation	RBY	453	2022-06-14T09:18:33	2022-06-14T09:53:21	0:34:48	Rugby	Voeller_Dave	Equip Fail Cutout	High side cutout failed
	Substation	RBY	453	2022-12-29T07:09:50	2022-12-29T11:05:22	3:55:32	Rugby	Voeller_Dave	Equip Fail Underground	Underground primary fault
	Feeder	RBY	212	2022-01-04T18:35:10	2022-01-04T18:35:16	0:00:06	Rugby	Voeller_Dave	Unknown	SRep could not find any reason for blink
	Feeder	RBY	212	2022-01-04T20:39:18	2022-01-04T20:39:25	0:00:07	Rugby	Voeller_Dave	Unknown	SRep could not find any reason for blink
	Substation	R	2	2022-04-23T15:28:57	2022-04-23T15:29:05	0:00:08	Rugby	Voeller_Dave	Weather	Severe Weather including High winds, Freezing rain, Snow and rain caused Broken poles, switches, Xarms, wire and insulators leading to multiple power outages throughout the area.
	Substation	R	2	2022-05-09T01:14:40	2022-05-09T01:14:52	0:00:12	Rugby	Voeller_Dave	Weather	Stormy weather rolled through the area with lightning and heavy winds.
	Substation	R	2	2022-06-14T04:55:29	2022-06-14T04:55:36	0:00:07	Rugby	Voeller_Dave	Weather	Stormy weather with high winds traveled through the CSC causing blinks
	Substation	R	2	2022-06-14T04:58:19	2022-06-14T08:06:20	3:08:01	Rugby	Voeller_Dave	Equip Fail Pole	Lightning hit a pole and knocked out the line. JCH Audited 7/28/22
	Substation	R	2	2022-07-06T09:41:20	2022-07-06T11:43:59	2:02:39	Rugby	Voeller_Dave	Equip Fail Cutout	Highside cutout failed and needed to be fixed
	Substation	R	2	2022-07-10T06:10:38	2022-07-10T06:10:43	0:00:05	Rugby	Voeller_Dave	Weather	Storms rolled through the area causing damage throughout its path.
	Substation	R	2	2022-08-15T11:16:51	2022-08-15T11:16:58	0:00:07	Rugby	Voeller_Dave	Weather	rain, lightning and high winds
	Substation	R	2	2022-08-26T15:32:24	2022-08-26T15:32:30	0:00:06	Rugby	Voeller_Dave	Unknown	Storm cell moved through the area.

Equipment ID	Equipment Type	Phase(s)	Customers	Outage Start	Outage End	Duration	Customer Service Center	Region	Cause	Notes
	Substation	R	2	2022-11-12T08:01:24	2022-11-12T08:03:56	0:02:32	Rugby	Voeller_Dave	Weather	Icing and wind
	Substation	R	2	2022-12-12T08:31:00	2022-12-12T08:31:08	0:00:08	Rugby	Voeller_Dave	Unknown	Unknown
	Substation	R	2	2022-12-12T10:02:18	2022-12-12T10:02:27	0:00:09	Rugby	Voeller_Dave	Equip Fail Pole	Broken pole
	Substation	R	2	2022-12-12T10:08:38	2022-12-12T12:01:26	1:52:48	Rugby	Voeller_Dave	Equip Fail Pole	Broken pole
	Substation	R	2	2022-12-20T16:28:15	2022-12-20T19:09:45	2:41:30	Rugby	Voeller_Dave	Equip Fail Insulator	Floater/crossarm
	Substation	RBY	258	2022-01-01T06:42:57	2022-01-01T09:45:03	3:02:06	Wahpeton	Toso_Mark	Itron meter failure	Broken conductor in Nome area most were back on within an hour but 6 customers were out for the full 3 plus hours.
	Substation	RBY	258	2022-01-11T01:34:52	2022-01-11T03:28:52	1:54:00	Wahpeton	Toso_Mark	Equip Fail Conductor	Burnt off conductor at a dead end shoe.
	Substation	RBY	258	2022-04-06T17:42:36	2022-04-06T17:42:40	0:00:04	Wahpeton	Toso_Mark	Unknown	No Customer calls
	Substation	RBY	258	2022-04-18T20:30:32	2022-04-18T20:30:38	0:00:06	Wahpeton	Toso_Mark	Unknown	No customer calls
	Substation	RBY	258	2022-05-04T22:16:12	2022-05-04T22:16:18	0:00:06	Wahpeton	Toso_Mark	Animal	Dead racoon at base of pole
	Substation	RBY	258	2022-05-05T01:11:31	2022-05-05T01:11:38	0:00:07	Wahpeton	Toso_Mark	Animal	Dead racoon at base of pole.
	Substation	RBY	258	2022-06-03T22:08:48	2022-06-03T22:08:54	0:00:06	Wahpeton	Toso_Mark	Unknown	No customer calls
	Substation	RBY	258	2022-06-12T00:55:02	2022-06-12T00:55:07	0:00:05	Wahpeton	Toso_Mark	Unknown	No customer calls but it maybe at abandoned farm and we wont find until we read the meters.
	Substation	RBY	258	2022-06-13T02:34:48	2022-06-13T02:34:54	0:00:06	Wahpeton	Toso_Mark	Unknown	No customer calls but it maybe at abandoned farm and we wont find until we read the meters.
	Substation	RBY	258	2022-06-14T05:55:40	2022-06-14T05:55:46	0:00:06	Wahpeton	Toso_Mark	Weather	Storms with lots of lightning in the whole area.
	Substation	RBY	258	2022-06-15T23:00:59	2022-06-15T23:01:06	0:00:07	Wahpeton	Toso_Mark	Unknown	
	Substation	RBY	258	2022-06-18T14:45:47	2022-06-18T16:25:49	1:40:02	Wahpeton	Toso_Mark	Vehicle Accident	Farmer hit pole and tore down line.
	Substation	RBY	258	2022-06-18T16:37:00	2022-06-18T16:37:06	0:00:06	Wahpeton	Toso_Mark	Vehicle Accident	Farmer hit pole and tore down line.
	Substation	RBY	258	2022-06-20T17:39:08	2022-06-20T17:39:14	0:00:06	Wahpeton	Toso_Mark	Weather	Strong storms with high winds and lightning went through the area.
	Substation	RBY	258	2022-06-20T17:46:00	2022-06-20T17:46:06	0:00:06	Wahpeton	Toso_Mark	Weather	Strong storms with high winds and lightning went through the area.
	Substation	RBY	258	2022-07-01T10:51:07	2022-07-01T10:51:13	0:00:06	Wahpeton	Toso_Mark	Unknown	
	Substation	RBY	258	2022-08-28T10:31:55	2022-08-28T10:32:02	0:00:07	Wahpeton	Toso_Mark	Weather	Storms with lightning in the area
	Substation	RBY	258	2022-08-29T10:41:06	2022-08-29T10:42:12	0:01:06	Wahpeton	Toso_Mark	Unknown	No customer calls
	Substation	RBY	258	2022-10-05T16:17:03	2022-10-05T18:37:38	2:20:35	Wahpeton	Toso_Mark	Weather	Lightning from small storm cell took out the high side arrestors and several insulators in the sub.
	Substation	RBY	258	2022-11-09T22:49:31	2022-11-09T23:56:43	1:07:12	Wahpeton	Toso_Mark	Unknown	
	Substation	RBY	258	2022-12-07T17:44:13	2022-12-07T18:30:21	0:46:08	Wahpeton	Toso_Mark	Unknown	
	Substation	RBY	258	2022-12-13T11:44:22	2022-12-13T11:44:28	0:00:06	Wahpeton	Toso_Mark	Weather	Heavy snow on insulators was causing tracking to the poles and breakers tripped and would not hold.
	Substation	RBY	258	2022-12-13T11:46:57	2022-12-13T13:07:23	1:20:26	Wahpeton	Toso_Mark	Weather	Heavy snow on insulators was causing tracking to the poles and breakers tripped and would not hold.
	Substation	RBY	258	2022-12-14T11:41:49	2022-12-14T13:33:18	1:51:29	Wahpeton	Toso_Mark	Weather	Ice and snow on lines caused numerous outages.
	Substation	RBY	258	2022-12-19T15:14:58	2022-12-19T16:04:43	0:49:45	Wahpeton	Toso_Mark	Unknown	
	Substation	RBY	280	2022-03-14T22:56:42	2022-03-14T22:56:57	0:00:15	Devils_Lake	Foss_Jerry	Unknown	Unknown
	Substation	RBY	280	2022-04-23T05:56:13	2022-04-23T05:56:35	0:00:22	Devils_Lake	Foss_Jerry	Weather	Significant thunder storm/ice storm/extremely high wind event - lines slapping together, trees, icing galloping lines, broken ties, broken insulators, broken poles.
	Substation	RBY	280	2022-06-15T06:32:58	2022-06-15T06:33:07	0:00:09	Devils_Lake	Foss_Jerry	Equip Fail Pole	Broken pole in store that moved through
	Substation	RBY	280	2022-07-15T15:16:39	2022-07-15T15:16:47	0:00:08	Devils_Lake	Foss_Jerry	Unknown	Unknown
	Substation	RBY	280	2022-07-23T00:05:28	2022-07-23T00:05:36	0:00:08	Devils_Lake	Foss_Jerry	Weather	Storm moving through - high winds and lightning
	Feeder	RBY	118	2022-06-24T18:12:18	2022-06-24T18:12:19	0:00:01	Devils_Lake	Foss_Jerry	Lightning	Storm through the area. 4 poles took shots of lightning. 3 by McVilleville and one by Fort Totten
	Feeder	RBY	118	2022-08-17T16:58:05	2022-08-17T16:58:29	0:00:24	Devils_Lake	Foss_Jerry	other	Contractor dug into ug line.
	Feeder	RBY	118	2022-08-17T17:01:13	2022-08-17T17:01:19	0:00:06	Devils_Lake	Foss_Jerry	other	Contractor dug into ug line.
	Feeder	RBY	118	2022-08-17T17:02:48	2022-08-17T18:44:06	1:41:18	Devils_Lake	Foss_Jerry	other	Contractor dug into ug line.
	Substation	BRY	330	2022-02-01T02:31:54	2022-02-01T02:32:08	0:00:14	Devils_Lake	Stabo_Tim	Equip Fail Insulator	broken insulator in blizzard
	Substation	RBY	331	2022-02-01T02:33:02	2022-02-01T03:57:53	1:24:51	Devils_Lake	Stabo_Tim	Equip Fail Insulator	broken insulator in blizzard. JCH audited 2/28/22
	Substation	RBY	331	2022-05-18T22:06:06	2022-05-18T22:07:31	0:01:25	Devils_Lake	Stabo_Tim	Unknown	Unknown
	Substation	RBY	331	2022-05-25T16:12:19	2022-05-25T17:05:21	0:53:02	Devils_Lake	Stabo_Tim	Equip Fail Insulator	Insulator tracked across burning top pole off.
	Substation	RBY	331	2022-06-24T17:02:54	2022-06-24T17:04:19	0:01:25	Devils_Lake	Stabo_Tim	Equip Fail Pole	Storm broke a pole by Fordville.
	Substation	RBY	331	2022-06-24T17:30:07	2022-06-24T17:31:35	0:01:28	Devils_Lake	Stabo_Tim	Equip Fail Pole	Storm broke a pole by Fordville.
	Substation	RBY	331	2022-06-24T18:12:38	2022-06-24T18:14:06	0:01:28	Devils_Lake	Stabo_Tim	Equip Fail Pole	Broken pole due to storm by Fordville.
	Substation	RBY	330	2022-06-24T22:36:37	2022-06-24T22:42:19	0:05:42	Devils_Lake	Stabo_Tim	Equip Fail Pole	Broken pole due to storm by Fordville.
	Substation	RBY	331	2022-07-14T17:04:57	2022-07-14T17:06:26	0:01:29	Devils_Lake	Stabo_Tim	Unknown	Unknown
	Substation	BYR	331	2022-09-07T22:56:10	2022-09-07T22:57:32	0:01:22	Devils_Lake	Stabo_Tim	Unknown	Unknown
	Substation	BRY	331	2022-10-30T07:57:19	2022-10-30T07:58:34	0:01:15	Devils_Lake	Stabo_Tim	Unknown	Unknown
	Substation	RBY	331	2022-12-22T15:22:23	2022-12-22T15:23:48	0:01:25	Devils_Lake	Stabo_Tim	Weather	Blizzard conditions combined with icing and high winds caused excess of 100 floaters on different line sections
	Feeder	RBY	161	2022-01-11T14:00:19	2022-01-11T15:42:00	1:41:41	Devils_Lake	Stabo_Tim	Planned	Replacement of trans switch. JCH audited 2/28/22
	Feeder	BR	125	2022-04-16T01:34:35	2022-04-16T01:34:50	0:00:15	Devils_Lake	Stabo_Tim	Unknown	Unknown

Equipment ID	Equipment Type	Phase(s)	Customers	Outage Start	Outage End	Duration	Customer Service Center	Region	Cause	Notes
	Feeder	RBY	170	2022-07-26T03:38:23	2022-07-26T03:38:44	0:00:21	Devils_Lake	Stabo_Tim	Weather	Storm cell moved through
	Substation	RBY	84	2022-02-01T02:31:42	2022-02-01T02:31:49	0:00:07	Crookston	Fenner_Myron		
	Substation	RBY	84	2022-02-01T02:32:56	2022-02-01T03:57:35	1:24:39	Crookston	Fenner_Myron	Equip Fail Insulator	Contributing factor to broken insulator is wind and ice with lines galloping 40KV insulator failure approx. 4 miles west of Forest River causing pole fire. DLS
	Substation	RBY	84	2022-05-18T22:06:09	2022-05-18T22:07:15	0:01:06	Crookston	Fenner_Myron	Equip Fail Insulator	Bad insulator caused pole fire, this line has been approved for extended line however insulators are on back order. DLS
	Substation	RBY	84	2022-05-25T16:12:24	2022-05-25T17:13:40	1:01:16	Crookston	Fenner_Myron	Equip Fail Insulator	
	Substation	RBY	84	2022-06-24T17:02:55	2022-06-24T17:04:03	0:01:08	Crookston	Fenner_Myron		
	Substation	RBY	84	2022-06-24T17:30:11	2022-06-24T17:31:20	0:01:09	Crookston	Fenner_Myron		
	Substation	RBY	84	2022-06-24T17:36:11	2022-06-24T17:37:18	0:01:07	Crookston	Fenner_Myron		
	Substation	RBY	84	2022-06-24T17:42:31	2022-06-24T17:43:37	0:01:06	Crookston	Fenner_Myron		
	Substation	RBY	84	2022-06-24T18:12:42	2022-06-24T18:13:50	0:01:08	Crookston	Fenner_Myron		
	Substation	RBY	84	2022-06-24T22:36:42	2022-06-25T01:06:47	2:30:05	Crookston	Fenner_Myron	Lightning	Pole damage due to lightning. JCH audited 7/28/22
	Substation	RBY	84	2022-07-14T17:05:01	2022-07-14T17:06:10	0:01:09	Crookston	Fenner_Myron		
	Substation	RBY	84	2022-09-07T22:56:03	2022-09-07T22:57:13	0:01:10	Crookston	Fenner_Myron		
	Substation	RBY	84	2022-10-30T07:57:07	2022-10-30T07:58:16	0:01:09	Crookston	Fenner_Myron	Unknown	10.1 miles from Oslo according to relay, investigated with no cause found
	Substation	RBY	351	2022-01-17T10:00:41	2022-01-17T10:00:51	0:00:10	Wahpeton	Grosgebauer_John	Animal	Found dead squirrel near riser pole.
	Substation	RBY	351	2022-05-09T07:36:05	2022-05-09T07:39:57	0:03:52	Wahpeton	Grosgebauer_John	Weather	Strong thunderstorms with lots of lightning and heavy rain in the area.
	Substation	RBY	351	2022-07-03T07:35:58	2022-07-03T07:36:08	0:00:10	Wahpeton	Grosgebauer_John		
	Substation	RBY	351	2022-07-10T21:18:39	2022-07-10T21:27:41	0:09:02	Wahpeton	Grosgebauer_John	Weather	Strong storms in the area and 230 line tripped out.
	Substation	RBY	351	2022-11-01T15:19:11	2022-11-01T16:02:42	0:43:31	Wahpeton	Grosgebauer_John	other	Smoke from a grass fire caused line to arc out.
	Substation	RBY	351	2022-12-15T02:11:24	2022-12-15T02:11:40	0:00:16	Wahpeton	Grosgebauer_John	Weather	Ice and snow on lines caused numourous outages.
	Substation	BYR	42	2022-01-17T12:03:36	2022-01-17T12:03:59	0:00:23	Devils_Lake	Chase_Scott	Equip Fail Insulator	Rep found broken insulator on 41.6kv line by Oberon.
	Substation	RBY	42	2022-03-14T11:35:54	2022-03-14T11:36:06	0:00:12	Devils_Lake	Chase_Scott	Unknown	Unknown
	Substation	BYR	42	2022-05-17T10:27:07	2022-05-17T10:27:31	0:00:24	Devils_Lake	Chase_Scott	Unknown	Unknown
	Substation	BYR	42	2022-06-24T17:47:45	2022-06-24T17:54:52	0:07:07	Devils_Lake	Chase_Scott	Weather	Severe storm moved through. Lightning struck 4 poles
	Substation	RBY	42	2022-07-22T22:53:38	2022-07-22T22:54:12	0:00:34	Devils_Lake	Chase_Scott	Weather	Storm moving through - high winds and lightning
	Feeder	RBY	3	2022-06-24T15:17:41	2022-06-24T15:17:46	0:00:05	Devils_Lake	Chase_Scott	Weather	Severe storm moved through. Lightning struck 4 poles.
	Feeder	RBY	3	2022-07-22T23:14:33	2022-07-22T23:14:40	0:00:07	Devils_Lake	Chase_Scott	Weather	Storm moving through - high winds and lightning
	Substation	RBY	6	2022-01-17T12:03:35	2022-01-17T12:04:40	0:01:05	Devils_Lake	Chase_Scott	Equip Fail Insulator	Rep found broken insulator on 41.6kv line by Oberon.
	Substation	RBY	6	2022-03-14T11:35:46	2022-03-14T11:36:02	0:00:16	Devils_Lake	Chase_Scott	Unknown	Unknown
	Substation	RBY	6	2022-05-17T10:27:03	2022-05-17T10:27:11	0:00:08	Devils_Lake	Chase_Scott	Unknown	Unknown
	Substation	RBY	6	2022-06-24T17:47:45	2022-06-24T19:43:20	1:55:35	Devils_Lake	Chase_Scott	Weather	Severe storm moved through. Lightning struck 4 poles
	Substation	RBY	6	2022-07-22T22:53:40	2022-07-22T22:54:08	0:00:28	Devils_Lake	Chase_Scott	Weather	Storm moving through - high winds and lightning
	Feeder	BY	26	2022-06-01T11:47:01	2022-06-01T11:47:07	0:00:06	Devils_Lake	Chase_Scott	Planned	Planned outage for new cable installation
	Feeder	BYR	39	2022-07-22T23:12:21	2022-07-22T23:12:28	0:00:07	Devils_Lake	Chase_Scott	Weather	Storm moving through - high winds and lightning
	Substation	BY	168	2022-01-13T11:46:10	2022-01-13T11:55:12	0:09:02	Jamestown	Powers_Steve	Unknown	Unknown distribution fault caused Peaking Plant breaker 815 to operate causing Jamestown SE Jct motor-operated switch 781 to open which caused transmission issues between Jamestown and Edgeley load pockets. Cause unknown upon investigation.
	Substation	BY	168	2022-01-13T13:49:08	2022-01-13T13:50:36	0:01:28	Jamestown	Powers_Steve	Unknown	Unknown distribution fault caused Peaking Plant breaker 815 to operate causing Jamestown SE Jct motor-operated switch 781 to open which caused transmission issues between Jamestown and Edgeley load pockets. Cause unknown upon investigation.
	Substation	BY	168	2022-01-13T15:15:20	2022-01-13T15:18:24	0:03:04	Jamestown	Powers_Steve	Unknown	Unknown distribution fault caused Peaking Plant breaker 815 to operate causing Jamestown SE Jct motor-operated switch 781 to open which caused transmission issues between Jamestown and Edgeley load pockets. Cause unknown upon investigation.
	Substation	BY	168	2022-02-01T03:39:33	2022-02-01T03:39:43	0:00:10	Jamestown	Powers_Steve	Weather	Freezing rain with high winds caused interruptions.
	Substation	BY	168	2022-02-04T07:12:27	2022-02-04T08:54:39	1:42:12	Jamestown	Powers_Steve	Equip Fail Conductor	Broken transmission phase 4 miles east of Gackle at Henne Slough. JCH audited 2/28/22
	Substation	BY	168	2022-04-13T04:47:34	2022-04-13T04:47:41	0:00:07	Jamestown	Powers_Steve	Unknown	Investigated, cause unknown. SEL 6 miles west of Gackle Jct 865.
	Substation	BY	168	2022-04-13T04:48:11	2022-04-13T04:48:27	0:00:16	Jamestown	Powers_Steve	Unknown	Investigated, cause unknown. SEL 6 miles west of Gackle Jct 865.
	Substation	BY	167	2022-04-22T22:53:06	2022-04-22T22:53:16	0:00:10	Jamestown	Powers_Steve	Weather	Storms in the area.
	Substation	BY	167	2022-04-23T00:10:33	2022-04-23T00:10:42	0:00:09	Jamestown	Powers_Steve	Weather	Storms in the area.
	Substation	BY	168	2022-04-23T00:11:19	2022-04-23T00:11:31	0:00:12	Jamestown	Powers_Steve	Weather	Storms in the area.
	Substation	BY	168	2022-04-23T04:12:14	2022-04-23T04:12:22	0:00:08	Jamestown	Powers_Steve	Weather	Storms in the area.

Equipment ID	Equipment Type	Phase(s)	Customers	Outage Start	Outage End	Duration	Customer Service Center	Region	Cause	Notes
	Substation	BY	168	2022-05-13T12:18:39	2022-05-13T12:19:04	0:00:25	Jamestown	Powers_Steve	Equip Fail Insulator	Failed insulator caused pole to burn and break off at the crossarm bolt 3 poles south of Dakota Valley Millarton switch 753.
	Substation	BY	168	2022-05-13T14:48:45	2022-05-13T14:51:34	0:02:49	Jamestown	Powers_Steve	Equip Fail Pole	3 poles fell over in the slough 1 mile south of I-94 and Hwy 30 due to strong winds and wet conditions.
	Substation	R	132	2022-06-14T05:37:17	2022-06-14T05:37:24	0:00:07	Jamestown	Powers_Steve	Unknown	Unknown and not patrolled.
	Substation	BY	168	2022-06-14T05:43:51	2022-06-14T05:43:59	0:00:08	Jamestown	Powers_Steve	Weather	Storm in the area.
	Substation	BY	168	2022-06-20T16:38:05	2022-06-20T16:44:12	0:06:07	Jamestown	Powers_Steve	Unknown	Investigated and cause not known. SEL 35.12 from Jamestown and 12.6 from Edgeley.
	Substation	BY	168	2022-06-29T23:29:20	2022-06-29T23:32:08	0:02:48	Jamestown	Powers_Steve	Vegetation	Storm in the area caused trees, approximately 10 miles north of Edgeley, to contact transmission line which opened the breaker.
	Substation	BY	168	2022-07-07T06:21:42	2022-07-07T06:22:48	0:01:06	Jamestown	Powers_Steve	Weather	Storms in the area.
	Substation	R	132	2022-07-19T01:36:22	2022-07-19T01:36:33	0:00:11	Jamestown	Powers_Steve	Unknown	Unknown and not patrolled.
	Substation	BY	168	2022-08-14T14:09:14	2022-08-14T14:09:22	0:00:08	Jamestown	Powers_Steve	Unknown	Unknown and not investigated.
	Substation	R	132	2022-08-15T13:36:00	2022-08-16T10:02:49	20:26:49	Jamestown	Powers_Steve	Itron meter voltage source failure	No known outage during these times.
	Substation	R	132	2022-08-16T10:03:23	2022-08-18T13:18:49	51:15:26	Jamestown	Powers_Steve	Itron meter voltage source failure	No known outage during these times.
	Substation	BRY	287	2022-08-28T06:37:02	2022-08-28T06:37:30	0:00:28	Jamestown	Powers_Steve	Weather	Lightning storm in the area. Line patrolled per SEL data, but nothing found.
	Substation	BRY	287	2022-08-28T07:15:24	2022-08-28T07:15:51	0:00:27	Jamestown	Powers_Steve	Weather	Lightning storm in the area. Line patrolled per SEL data, but nothing found.
	Substation	BRY	287	2022-11-06T11:47:00	2022-11-06T11:53:55	0:06:55	Jamestown	Powers_Steve	Equip Fail Insulator	Broken center phase insulator between Jamestown Radio Station sub and Millarton-Montpelier Sub.
	Substation	BRY	284	2022-11-06T14:40:47	2022-11-06T14:41:06	0:00:19	Jamestown	Powers_Steve	Equip Fail Insulator	Broken center phase insulator between Jamestown Radio Station sub and Millarton-Montpelier Sub.
	Substation	BRY	287	2022-11-09T15:43:11	2022-11-09T15:43:30	0:00:19	Jamestown	Powers_Steve	Weather	Freezing rain and windy conditions.
	Substation	BRY	285	2022-11-09T20:56:28	2022-11-09T20:58:08	0:01:40	Jamestown	Powers_Steve	Weather	Freezing rain and windy conditions.
	Substation	Y	50	2022-11-09T20:59:02	2022-11-09T21:03:12	0:04:10	Jamestown	Powers_Steve	Weather	Freezing rain and windy conditions.
	Substation	Y	50	2022-11-09T21:03:53	2022-11-09T21:08:25	0:04:32	Jamestown	Powers_Steve	Weather	Freezing rain and windy conditions.
	Substation	Y	50	2022-11-09T21:19:19	2022-11-09T21:20:13	0:00:54	Jamestown	Powers_Steve	Weather	Freezing rain and windy conditions.
	Substation	Y	50	2022-11-09T21:23:47	2022-11-09T21:27:20	0:03:33	Jamestown	Powers_Steve	Weather	Freezing rain and windy conditions.
	Substation	Y	50	2022-11-09T21:28:30	2022-11-09T21:30:47	0:02:17	Jamestown	Powers_Steve	Weather	Freezing rain and windy conditions.
	Substation	Y	50	2022-11-09T21:34:23	2022-11-09T21:35:28	0:01:05	Jamestown	Powers_Steve	Weather	Freezing rain and windy conditions.
	Substation	BRY	287	2022-11-09T21:48:17	2022-11-09T22:19:51	0:31:34	Jamestown	Powers_Steve	Equip Fail Pole	Top of pole burned between Cleveland and Windsor.
	Substation	BRY	287	2022-11-10T03:47:23	2022-11-10T04:33:23	0:46:00	Jamestown	Powers_Steve	Weather	Freezing rain and windy conditions.
	Feeder	R	6	2022-01-13T11:46:06	2022-01-13T12:49:37	1:03:31	Jamestown	Powers_Steve	Unknown	Unknown distribution fault caused Peaking Plant breaker 815 to operate causing Jamestown SE Ict motor-operated switch 781 to open which caused transmission issues between Jamestown and Edgeley load pockets. Cause unknown upon investigation.
	Feeder	R	6	2022-04-22T22:53:03	2022-04-22T22:53:10	0:00:07	Jamestown	Powers_Steve	Weather	Storms in the area.
	Feeder	R	6	2022-04-23T00:10:30	2022-04-23T00:10:36	0:00:06	Jamestown	Powers_Steve	Weather	Storms in the area.
	Feeder	R	6	2022-04-23T00:11:15	2022-04-23T00:11:24	0:00:09	Jamestown	Powers_Steve	Weather	Storms in the area.
	Feeder	R	6	2022-05-13T13:34:50	2022-05-13T13:39:39	0:04:49	Jamestown	Powers_Steve	Equip Fail Pole	3 poles fell over in the slough 1 mile south of I-94 and Hwy 30 due to strong winds and wet conditions.
	Feeder	R	6	2022-05-13T14:38:32	2022-05-13T14:41:40	0:03:08	Jamestown	Powers_Steve	Equip Fail Pole	3 poles fell over in the slough 1 mile south of I-94 and Hwy 30 due to strong winds and wet conditions.
	Feeder	R	6	2022-05-13T14:48:58	2022-05-13T14:51:30	0:02:32	Jamestown	Powers_Steve	Equip Fail Pole	3 poles fell over in the slough 1 mile south of I-94 and Hwy 30 due to strong winds and wet conditions.
	Feeder	R	6	2022-06-14T05:32:16	2022-06-14T05:32:24	0:00:08	Jamestown	Powers_Steve	Weather	Storm in the area.
	Feeder	R	6	2022-06-14T05:44:09	2022-06-14T05:44:16	0:00:07	Jamestown	Powers_Steve	Weather	Storm in the area.
	Feeder	R	6	2022-06-20T16:38:24	2022-06-20T16:44:28	0:06:04	Jamestown	Powers_Steve	Unknown	Investigated and cause not known. SEL 35.12 from Jamestown and 12.6 from Edgeley.
	Feeder	R	6	2022-06-29T23:29:38	2022-06-29T23:32:25	0:02:47	Jamestown	Powers_Steve	Vegetation	Storm in the area caused trees, approximately 10 miles north of Edgeley, to contact transmission line which opened the breaker.
	Feeder	R	6	2022-07-07T06:21:51	2022-07-07T06:22:06	0:00:15	Jamestown	Powers_Steve	Weather	Storms in the area.
	Feeder	R	6	2022-07-31T02:43:39	2022-07-31T02:43:54	0:00:15	Jamestown	Powers_Steve	Weather	Storm passing through the area.
	Feeder	R	6	2022-08-15T07:36:11	2022-08-15T08:50:06	1:13:55	Jamestown	Powers_Steve	Unknown	CPEC switch 893 partially open and switch 892 open. No known cause.
	Feeder	R	6	2022-08-28T06:37:20	2022-08-28T06:37:28	0:00:08	Jamestown	Powers_Steve	Weather	Lightning storm in the area. Line patrolled per SEL data, but nothing found.

Equipment ID	Equipment Type	Phase(s)	Customers	Outage Start	Outage End	Duration	Customer Service Center	Region	Cause	Notes
Feeder	R		6	2022-08-28T07:15:41	2022-08-28T07:15:49	0:00:08	Jamestown	Powers_Steve	Weather	Lightning storm in the area. Line patrolled per SEL data, but nothing found.
Feeder	R		6	2022-09-16T10:09:40	2022-09-16T10:12:00	0:02:20	Jamestown	Powers_Steve	other	CPEC motor operated.
Feeder	R		6	2022-11-06T11:47:09	2022-11-06T11:50:54	0:03:45	Jamestown	Powers_Steve	Equip Fail Insulator	Broken center phase insulator between Jamestown Radio Station sub and Millarton-Montpelier Sub.
Feeder	R		6	2022-11-09T20:56:33	2022-11-09T20:56:42	0:00:09	Jamestown	Powers_Steve	Weather	Freezing rain and windy conditions.
Feeder	R		6	2022-11-09T21:48:30	2022-11-09T21:48:36	0:00:06	Jamestown	Powers_Steve	Equip Fail Pole	Top of pole burned between Cleveland and Windsor.
Feeder	R		6	2022-11-10T03:47:31	2022-11-10T03:47:39	0:00:08	Jamestown	Powers_Steve	Weather	Freezing rain and windy conditions.
Feeder	R		6	2022-11-30T20:05:03	2022-11-30T20:10:26	0:05:23	Jamestown	Powers_Steve	Equip Fail Conductor	Phase burned down between Jamestown and Eldridge.
Feeder	R		6	2022-12-03T00:07:04	2022-12-03T00:12:46	0:05:42	Jamestown	Powers_Steve	Equip Fail Conductor	Phase burned down between Windsor and Cleveland.
Feeder	R		6	2022-12-12T14:39:23	2022-12-12T14:59:37	0:20:14	Jamestown	Powers_Steve	Equip Fail Pole	Burned off pole top between Windsor and Cleveland.
Feeder	R		10	2022-01-13T11:45:59	2022-01-13T12:49:30	1:03:31	Jamestown	Powers_Steve	Unknown	Unknown distribution fault caused Peaking Plant breaker 815 to operate causing Jamestown SE Jct motor-operated switch 781 to open which caused transmission issues between Jamestown and Edgeley load pockets. Cause unknown upon investigation.
Feeder	R		10	2022-04-22T22:52:56	2022-04-22T22:53:03	0:00:07	Jamestown	Powers_Steve	Weather	Storms in the area.
Feeder	R		10	2022-04-23T00:10:22	2022-04-23T00:10:29	0:00:07	Jamestown	Powers_Steve	Weather	Storms in the area.
Feeder	R		10	2022-04-23T00:11:07	2022-04-23T00:11:15	0:00:08	Jamestown	Powers_Steve	Weather	Storms in the area.
Feeder	R		10	2022-05-13T13:34:42	2022-05-13T13:39:32	0:04:50	Jamestown	Powers_Steve	Equip Fail Pole	3 poles fell over in the slough 1 mile south of I-94 and Hwy 30 due to strong winds and wet conditions.
Feeder	R		10	2022-05-13T14:38:25	2022-05-13T14:41:32	0:03:07	Jamestown	Powers_Steve	Equip Fail Pole	3 poles fell over in the slough 1 mile south of I-94 and Hwy 30 due to strong winds and wet conditions.
Feeder	R		10	2022-05-13T14:48:51	2022-05-13T14:51:22	0:02:31	Jamestown	Powers_Steve	Equip Fail Pole	3 poles fell over in the slough 1 mile south of I-94 and Hwy 30 due to strong winds and wet conditions.
Feeder	R		10	2022-06-14T05:32:05	2022-06-14T05:32:14	0:00:09	Jamestown	Powers_Steve	Weather	Storm in the area.
Feeder	R		10	2022-06-14T05:43:59	2022-06-14T05:44:06	0:00:07	Jamestown	Powers_Steve	Weather	Storm in the area.
Feeder	R		10	2022-06-20T16:38:14	2022-06-20T16:44:19	0:06:05	Jamestown	Powers_Steve	Unknown	Investigated and cause not known. SEL 35.12 from Jamestown and 12.6 from Edgeley.
Feeder	R		10	2022-06-29T23:29:28	2022-06-29T23:32:15	0:02:47	Jamestown	Powers_Steve	Vegetation	Storm in the area caused trees, approximately 10 miles north of Edgeley, to contact transmission line which opened the breaker.
Feeder	R		10	2022-07-07T06:21:48	2022-07-07T06:21:56	0:00:08	Jamestown	Powers_Steve	Weather	Storms in the area.
Feeder	R		10	2022-07-31T02:43:40	2022-07-31T02:43:44	0:00:04	Jamestown	Powers_Steve	Weather	Storm passing through the area.
Feeder	R		10	2022-08-01T09:49:59	2022-08-01T12:12:28	2:22:29	Jamestown	Powers_Steve	Equip Fail Underground	Underground primary fault.
Feeder	R		10	2022-08-01T12:13:08	2022-08-01T17:18:47	5:05:39	Jamestown	Powers_Steve	Equip Fail Underground	Underground primary fault.
Feeder	R		10	2022-08-15T07:36:04	2022-08-15T08:49:56	1:13:52	Jamestown	Powers_Steve	Unknown	CPEC switch 893 partially open and switch 892 open. No known cause.
Feeder	R		10	2022-08-28T06:37:05	2022-08-28T06:37:19	0:00:14	Jamestown	Powers_Steve	Weather	Lightning storm in the area. Line patrolled per SEL data, but nothing found.
Feeder	R		10	2022-08-28T07:15:31	2022-08-28T07:15:40	0:00:09	Jamestown	Powers_Steve	Weather	Lightning storm in the area. Line patrolled per SEL data, but nothing found.
Feeder	R		10	2022-09-16T10:09:31	2022-09-16T10:11:50	0:02:19	Jamestown	Powers_Steve	other	CPEC motor operated.
Feeder	R		10	2022-11-06T11:46:59	2022-11-06T11:47:07	0:00:08	Jamestown	Powers_Steve	Equip Fail Insulator	Broken center phase insulator between Jamestown Radio Station sub and Millarton-Montpelier Sub.
Feeder	R		10	2022-11-09T20:56:25	2022-11-09T20:56:33	0:00:08	Jamestown	Powers_Steve	Weather	Freezing rain and windy conditions.
Feeder	R		10	2022-11-09T21:48:21	2022-11-09T21:48:28	0:00:07	Jamestown	Powers_Steve	Equip Fail Pole	Top of pole burned between Cleveland and Windsor.
Feeder	R		10	2022-11-10T03:47:22	2022-11-10T04:33:11	0:45:49	Jamestown	Powers_Steve	Weather	Freezing rain and windy conditions.
Feeder	R		10	2022-11-30T20:04:53	2022-11-30T20:10:16	0:05:23	Jamestown	Powers_Steve	Equip Fail Conductor	Phase burned down between Jamestown and Eldridge.
Feeder	R		10	2022-12-03T00:06:55	2022-12-03T00:12:36	0:05:41	Jamestown	Powers_Steve	Equip Fail Conductor	Phase burned down between Windsor and Cleveland.
Feeder	R		10	2022-12-12T14:39:14	2022-12-12T14:59:28	0:20:14	Jamestown	Powers_Steve	Equip Fail Pole	Burned off pole top between Windsor and Cleveland.
Substation	RBY		29	2022-05-09T05:57:08	2022-05-09T05:57:17	0:00:09	Wahpeton	Vetter_AI	Weather	Strong thunderstorms with lots of lightning and heavy rain in the area.
Substation	RBY		29	2022-05-16T07:26:19	2022-05-16T07:26:27	0:00:08	Wahpeton	Vetter_AI	Weather	Strong winds with lightning and strong winds in the whole area.
Substation	RBY		29	2022-05-31T02:53:36	2022-05-31T02:53:47	0:00:11	Wahpeton	Vetter_AI	Unknown	Momentary on transmission line caused aoutage from Wahpeton all the way to open
Substation	RBY		29	2022-06-14T05:41:09	2022-06-14T05:41:17	0:00:08	Wahpeton	Vetter_AI	Weather	Storms with lots of lightning in the whole area.
Substation	RBY		29	2022-07-19T02:48:04	2022-07-19T02:48:13	0:00:09	Wahpeton	Vetter_AI	Weather	Storms with lightning in the area
Substation	RBY		29	2022-07-22T12:59:13	2022-07-22T14:54:34	1:55:21	Wahpeton	Vetter_AI	Bird	Bird in the sub caused high side to disconnect so we had to shut town off se we didnt single phase anyone. only 3 phase customers were off the rest had power.
Substation	RBY		29	2022-07-31T04:29:07	2022-07-31T04:29:16	0:00:09	Wahpeton	Vetter_AI	Weather	Storms with lots of lightning in the area.

Equipment ID	Equipment Type	Phase(s)	Customers	Outage Start	Outage End	Duration	Customer Service Center	Region	Cause	Notes
	Substation	RBY	29	2022-09-02T20:13:03	2022-09-02T20:13:11	0:00:08	Wahpeton	Vetter_Al	Unknown	No customer calls, 41.6 breaker operated we will patrol when we get time.
	Substation	RBY	29	2022-09-29T13:53:13	2022-09-29T13:53:21	0:00:08	Wahpeton	Vetter_Al	other	OTP relay techs tripped out breaker while working in the Wahpeton 230 sub.
	Substation	BYR	174	2022-04-19T10:12:36	2022-04-19T14:16:36	4:04:00	Jamestown	Atkinson_Tom	Equip Fail Insulator	Broken insulator approximately 1 mile south of the Galesburg/Clifford sub. JCH audited 4/27/22
	Substation	BYR	174	2022-04-22T22:49:28	2022-04-22T22:49:38	0:00:10	Jamestown	Atkinson_Tom	Weather	Storms in the area.
	Substation	BYR	174	2022-07-10T07:55:52	2022-07-10T07:56:16	0:00:24	Jamestown	Atkinson_Tom	Weather	Storms with strong winds, rain, lightning.
	Substation	BYR	174	2022-07-13T08:27:02	2022-07-13T08:27:24	0:00:22	Jamestown	Atkinson_Tom	Equip Fail Cutout	Failed cutout by Mewes Farms east of Colgate.
	Substation	BYR	174	2022-07-21T19:06:11	2022-07-21T19:06:32	0:00:21	Jamestown	Atkinson_Tom	Weather	Storm in the area.
	Substation	BY	124	2022-11-10T09:34:40	2022-11-10T12:12:37	2:37:57	Jamestown	Atkinson_Tom	Weather	Gallopings lines caused by freezing rain and windy conditions. JCH Audited 11/29/2022
	Substation	BY	124	2022-11-10T18:08:33	2022-11-10T18:09:24	0:00:51	Jamestown	Atkinson_Tom	Weather	Gallopings lines caused by freezing rain and windy conditions.
	Substation	RBY	28	2022-05-12T20:12:52	2022-05-12T20:13:00	0:00:08	Rugby	Derr_John	Weather	Stormy weather rolled through the area.
	Substation	RBY	892	2022-04-24T08:31:39	2022-04-24T08:35:32	0:03:53	Rugby	Klein_Travis	Weather	Severe Weather including High winds, Freezing rain, Snow and rain caused Broken poles, switches, Xarms, wire and insulators leading to multiple power outages throughout the area.
	Substation	RBY	892	2022-04-24T08:44:04	2022-04-24T10:06:40	1:22:36	Rugby	Klein_Travis	Weather	Severe Weather including High winds, Freezing rain, Snow and rain caused Broken poles, switches, Xarms, wire and insulators leading to multiple power outages throughout the area.
	Substation	BRY	890	2022-04-24T10:08:27	2022-04-24T10:13:08	0:04:41	Rugby	Klein_Travis	Weather	Severe Weather including High winds, Freezing rain, Snow and rain caused Broken poles, switches, Xarms, wire and insulators leading to multiple power outages throughout the area.
	Substation	RBY	892	2022-06-29T03:44:15	2022-06-29T03:45:20	0:01:05	Rugby	Klein_Travis	Unknown	SReps could not find a reason for the quick blink's in the area
	Substation	BRY	891	2022-12-15T10:58:08	2022-12-15T11:00:36	0:02:28	Rugby	Klein_Travis	Weather	Icing conditions high winds/blizzard
	Substation	BRY	891	2022-12-15T11:06:37	2022-12-15T11:57:52	0:51:15	Rugby	Klein_Travis	Weather	Icing conditions high winds/blizzard
	Substation	BRY	890	2022-12-15T13:54:46	2022-12-15T13:55:59	0:01:13	Rugby	Klein_Travis	Weather	Icing conditions high winds/blizzard
	Substation	RBY	889	2022-12-15T14:20:00	2022-12-15T14:20:22	0:00:22	Rugby	Klein_Travis	Weather	Icing conditions high winds/blizzard
	Substation	RBY	885	2022-12-15T14:27:07	2022-12-15T14:27:29	0:00:22	Rugby	Klein_Travis	Weather	Icing conditions high winds/blizzard
	Substation	BRY	888	2022-12-15T15:44:16	2022-12-15T15:44:39	0:00:23	Rugby	Klein_Travis	Weather	Icing conditions high winds/blizzard
	Substation	BRY	885	2022-12-15T15:50:01	2022-12-15T15:50:24	0:00:23	Rugby	Klein_Travis	Weather	Icing conditions high winds/blizzard
	Substation	BRY	887	2022-12-15T15:51:42	2022-12-15T15:52:04	0:00:22	Rugby	Klein_Travis	Weather	Icing conditions high winds/blizzard
	Substation	RBY	892	2022-12-15T15:57:07	2022-12-15T15:59:09	0:02:02	Rugby	Klein_Travis	Weather	Icing conditions high winds/blizzard
	Substation	BRY	890	2022-12-15T16:21:37	2022-12-15T16:22:04	0:00:27	Rugby	Klein_Travis	Weather	Icing conditions high winds/blizzard
	Substation	RBY	890	2022-12-15T16:24:08	2022-12-15T16:24:30	0:00:22	Rugby	Klein_Travis	Weather	Icing conditions high winds/blizzard
	Substation	RBY	885	2022-12-15T16:27:41	2022-12-15T16:56:50	0:29:09	Rugby	Klein_Travis	Weather	Icing conditions high winds/blizzard
	Substation	BRY	886	2022-12-15T19:01:23	2022-12-15T19:01:46	0:00:23	Rugby	Klein_Travis	Weather	Icing conditions high winds/blizzard
	Substation	RBY	892	2022-12-15T19:53:56	2022-12-15T19:54:18	0:00:22	Rugby	Klein_Travis	Weather	Icing conditions high winds/blizzard
	Substation	RBY	891	2022-12-15T19:59:15	2022-12-15T20:03:16	0:04:01	Rugby	Klein_Travis	Weather	Icing conditions high winds/blizzard
	Feeder	BRY	412	2022-06-23T16:24:53	2022-06-23T16:25:02	0:00:09	Rugby	Klein_Travis	Unknown	SRep could not see a reason for the bumps.
	Substation	RBY	1	2022-04-24T08:31:39	2022-04-24T08:35:16	0:03:37	Rugby	Rugby	Weather	Severe Weather including High winds, Freezing rain, Snow and rain caused Broken poles, switches, Xarms, wire and insulators leading to multiple power outages throughout the area.
	Substation	RBY	1	2022-04-24T08:44:03	2022-04-24T10:06:24	1:22:21	Rugby	Rugby	Weather	Severe Weather including High winds, Freezing rain, Snow and rain caused Broken poles, switches, Xarms, wire and insulators leading to multiple power outages throughout the area.
	Substation	RBY	1	2022-04-24T10:08:27	2022-04-24T10:12:51	0:04:24	Rugby	Rugby	Weather	Severe Weather including High winds, Freezing rain, Snow and rain caused Broken poles, switches, Xarms, wire and insulators leading to multiple power outages throughout the area.
	Substation	RBY	1	2022-06-29T03:44:15	2022-06-29T03:44:24	0:00:09	Rugby	Rugby	Unknown	SReps could not find a reason for the quick blink's in the area
	Substation	RBY	1	2022-12-15T10:58:10	2022-12-15T11:00:21	0:02:11	Rugby	Rugby	Weather	Icing conditions high winds/blizzard
	Substation	RBY	1	2022-12-15T11:06:37	2022-12-15T11:57:35	0:50:58	Rugby	Rugby	Weather	Icing conditions high winds/blizzard
	Substation	RBY	1	2022-12-15T13:54:49	2022-12-15T13:55:57	0:01:08	Rugby	Rugby	Weather	Icing conditions high winds/blizzard
	Substation	RBY	1	2022-12-15T14:19:59	2022-12-15T14:20:06	0:00:07	Rugby	Rugby	Weather	Icing conditions high winds/blizzard
	Substation	RBY	1	2022-12-15T14:27:06	2022-12-15T14:27:13	0:00:07	Rugby	Rugby	Weather	Icing conditions high winds/blizzard
	Substation	RBY	1	2022-12-15T15:44:16	2022-12-15T15:44:23	0:00:07	Rugby	Rugby	Weather	Icing conditions high winds/blizzard
	Substation	RBY	1	2022-12-15T15:50:01	2022-12-15T15:50:07	0:00:06	Rugby	Rugby	Weather	Icing conditions high winds/blizzard
	Substation	RBY	1	2022-12-15T15:51:42	2022-12-15T15:51:48	0:00:06	Rugby	Rugby	Weather	Icing conditions high winds/blizzard
	Substation	RBY	1	2022-12-15T15:57:06	2022-12-15T15:58:53	0:01:47	Rugby	Rugby	Weather	Icing conditions high winds/blizzard
	Substation	RBY	1	2022-12-15T16:21:36	2022-12-15T16:21:48	0:00:12	Rugby	Rugby	Weather	Icing conditions high winds/blizzard
	Substation	RBY	1	2022-12-15T16:24:07	2022-12-15T16:24:14	0:00:07	Rugby	Rugby	Weather	Icing conditions high winds/blizzard
	Substation	RBY	1	2022-12-15T16:24:07	2022-12-15T16:24:14	0:00:07	Rugby	Rugby	Weather	Icing conditions high winds/blizzard
	Substation	RBY	1	2022-12-15T16:27:40	2022-12-15T16:56:35	0:28:55	Rugby	Rugby	Weather	Icing conditions high winds/blizzard
	Substation	RBY	1	2022-12-15T19:01:23	2022-12-15T19:01:30	0:00:07	Rugby	Rugby	Weather	Icing conditions high winds/blizzard
	Substation	RBY	1	2022-12-15T19:53:55	2022-12-15T19:54:02	0:00:07	Rugby	Rugby	Weather	Icing conditions high winds/blizzard
	Substation	RBY	1	2022-12-15T19:59:14	2022-12-15T20:03:00	0:03:46	Rugby	Rugby	Weather	Icing conditions high winds/blizzard

Equipment ID	Equipment Type	Phase(s)	Customers	Outage Start	Outage End	Duration	Customer Service Center	Region	Cause	Notes
	Feeder	RBY	119	2022-02-08T15:52:08	2022-02-08T15:52:14	0:00:06	Rugby	Klein_Travis	Equip Fail Transformer	New power bank construction next to substation had too large of fuse in cutout and a bad riser connection to system neutral and would trip the breaker when fuse would blow. We installed smaller fuse in cutouts and replaced neutral connections on power bank
	Substation	BR	29	2022-04-05T00:36:21	2022-04-05T00:36:34	0:00:13	Wahpeton	Hovel_Loren	Equip Fail Insulator	Had insulator fail and burn off a pole between Geneseo and Veblen
	Substation	BR	29	2022-04-05T03:58:10	2022-04-05T04:54:34	0:56:24	Wahpeton	Hovel_Loren	Equip Fail Insulator	Had insulator fail and burn off a pole between Geneseo and Veblen
	Substation	BR	29	2022-04-23T01:03:04	2022-04-23T01:03:28	0:00:24	Wahpeton	Hovel_Loren	Equip Fail Insulator	Broken insulator caused blinks and the the breaker opened which caused the longer outage.
	Substation	BR	29	2022-04-23T14:02:35	2022-04-23T14:43:42	0:41:07	Wahpeton	Hovel_Loren	Equip Fail Insulator	Broken insulator caused blinks and the the breaker opened which caused the longer outage.
	Substation	R	15	2022-05-05T20:05:34	2022-05-05T20:05:38	0:00:04	Wahpeton	Hovel_Loren	Weather	Stron winds blew over 41.6 pole in lidgerwood
	Substation	R	15	2022-05-05T20:23:03	2022-05-06T01:24:34	5:01:31	Wahpeton	Hovel_Loren	Weather	Stron winds blew over 41.6 pole in lidgerwood
	Substation	R	15	2022-05-06T08:49:34	2022-05-06T10:17:33	1:27:59	Wahpeton	Hovel_Loren	Weather	Stron winds blew over 41.6 pole in lidgerwood
	Substation	BR	29	2022-06-20T22:36:52	2022-06-20T22:37:59	0:01:07	Wahpeton	Hovel_Loren	Weather	Strong storms with high winds and lightning went through the area.
	Substation	BR	29	2022-10-19T09:30:04	2022-10-19T11:44:38	2:14:34	Wahpeton	Hovel_Loren	Planned	Cut over to new substation.
	Substation	R	15	2022-11-02T09:30:24	2022-11-02T13:08:52	3:38:28	Wahpeton	Hovel_Loren	Planned	Cut over to new sub
	Substation	BR	29	2022-11-06T08:53:20	2022-11-06T09:00:58	0:07:38	Wahpeton	Hovel_Loren	Equip Fail Insulator	Broken 41.6 insulator from crosswind.
	Substation	BY	96	2022-01-08T02:46:38	2022-01-08T02:47:25	0:00:47	Crookston	Klie_Chris		
	Substation	BY	96	2022-01-11T15:13:11	2022-01-11T15:13:21	0:00:10	Crookston	Klie_Chris		
	Substation	BY	96	2022-02-01T02:31:42	2022-02-01T02:32:09	0:00:27	Crookston	Klie_Chris		
	Substation	BY	96	2022-02-01T02:32:56	2022-02-01T05:15:09	2:42:13	Crookston	Klie_Chris	Equip Fail Insulator	Contributing factor to broken insulator is wind and ice with lines galloping. JCH audited 2/28/22
	Substation	BY	95	2022-05-18T22:06:06	2022-05-18T22:07:15	0:01:09	Crookston	Klie_Chris	Equip Fail Insulator	40KV insulator failure approx. 4 miles west of Forest River causing pole fire. DLS
	Substation	BY	96	2022-05-25T16:12:22	2022-05-25T17:05:05	0:52:43	Crookston	Klie_Chris	Equip Fail Insulator	Bad insulator caused pole fire, this line has been approved for extended line however insulators are on back order. DLS
	Substation	BY	96	2022-06-24T17:02:54	2022-06-24T17:04:04	0:01:10	Crookston	Klie_Chris		
	Substation	BY	95	2022-06-24T17:30:10	2022-06-24T17:31:20	0:01:10	Crookston	Klie_Chris		
	Substation	Y	33	2022-06-24T17:36:11	2022-06-24T17:37:19	0:01:08	Crookston	Klie_Chris		
	Substation	Y	33	2022-06-24T17:42:30	2022-06-24T17:43:37	0:01:07	Crookston	Klie_Chris		
	Substation	BY	95	2022-06-24T18:12:41	2022-06-24T18:13:51	0:01:10	Crookston	Klie_Chris		
	Substation	BY	95	2022-06-24T22:36:40	2022-06-24T22:42:03	0:05:23	Crookston	Klie_Chris		
	Substation	Y	33	2022-07-09T07:45:32	2022-07-09T07:45:38	0:00:06	Crookston	Klie_Chris		
	Substation	BY	96	2022-07-14T17:05:02	2022-07-14T17:06:11	0:01:09	Crookston	Klie_Chris		
	Substation	BY	96	2022-08-16T14:59:45	2022-08-16T15:58:13	0:58:28	Crookston	Klie_Chris	Planned	Lengthen leads on transformer in sub, cement pad appears to be settling
	Substation	BY	96	2022-09-07T22:56:04	2022-09-07T22:57:32	0:01:28	Crookston	Klie_Chris		
	Substation	BY	96	2022-10-30T07:57:08	2022-10-30T07:58:35	0:01:27	Crookston	Klie_Chris	Unknown	10.1 miles from Oslo according to relay, investigated with no cause found
	Substation	BRY	340	2022-05-12T07:07:52	2022-05-12T07:08:11	0:00:19	Rugby	Bartholomay_Seth	Weather	Stormy weather rolled through the area.
	Substation	BRY	339	2022-07-19T02:29:04	2022-07-19T02:29:28	0:00:24	Rugby	Bartholomay_Seth	Vegetation	Top of an evergreen broke off and ripped line down and caused phase to ground short due to high winds.
	Substation	BRY	340	2022-07-19T02:31:23	2022-07-19T02:31:46	0:00:23	Rugby	Bartholomay_Seth	Vegetation	Top of an evergreen broke off and ripped line down and caused phase to ground short due to high winds.
	Substation	R	127	2022-07-22T21:02:22	2022-07-22T21:02:25	0:00:03	Rugby	Bartholomay_Seth	Weather	Storm moving through - high winds and lightning
	Substation	BY	213	2022-07-22T21:02:26	2022-07-22T21:02:41	0:00:15	Rugby	Bartholomay_Seth	Weather	Storm moving through - high winds and lightning
	Substation	BRY	340	2022-07-23T02:21:12	2022-07-23T02:21:36	0:00:24	Rugby	Bartholomay_Seth	Weather	Storm moving through - high winds and lightning
	Substation	BRY	340	2022-09-24T04:17:51	2022-09-24T05:49:54	1:32:03	Rugby	Bartholomay_Seth	Equip Fail Insulator	Failed insulator
	Substation	BRY	340	2022-10-05T11:19:06	2022-10-05T12:00:26	0:41:20	Rugby	Bartholomay_Seth	Unknown	Unknown
	Substation	RBY	125	2022-04-24T08:21:21	2022-04-24T08:21:31	0:00:10	Rugby	Rath_Todd	Weather	Severe Weather including High winds, Freezing rain, Snow and rain caused Broken poles, switches, Xarms, wire and insulators leading to multiple power outages throughout the area.
	Substation	RBY	125	2022-04-24T08:22:23	2022-04-24T08:38:07	0:15:44	Rugby	Rath_Todd	Weather	Severe Weather including High winds, Freezing rain, Snow and rain caused Broken poles, switches, Xarms, wire and insulators leading to multiple power outages throughout the area.
	Substation	RBY	125	2022-05-09T13:37:54	2022-05-09T13:37:58	0:00:04	Rugby	Rath_Todd	Weather	Stormy weather rolled through the area with lightning and heavy winds.
	Substation	RBY	125	2022-06-20T02:25:29	2022-06-20T02:25:39	0:00:10	Rugby	Rath_Todd	Unknown	SRep could not find a reason for the blink
	Substation	RBY	125	2022-06-29T05:01:24	2022-06-29T05:01:39	0:00:15	Rugby	Rath_Todd	Unknown	SReps could not find a reason for the quick blink's in the area
	Substation	RBY	125	2022-07-02T23:02:52	2022-07-02T23:02:59	0:00:07	Rugby	Rath_Todd	Unknown	SRep could not find a reason for short blink
	Substation	RBY	125	2022-07-04T01:43:34	2022-07-04T01:43:41	0:00:07	Rugby	Rath_Todd	Unknown	SRep could not find a reason for short blink

Equipment ID	Equipment Type	Phase(s)	Customers	Outage Start	Outage End	Duration	Customer Service Center	Region	Cause	Notes
	Substation	RBY	125	2022-07-10T05:10:08	2022-07-10T05:10:21	0:00:13	Rugby	Rath_Todd	Weather	Storms rolled through the area causing damage throughout its path.
	Substation	RBY	125	2022-09-23T00:25:25	2022-09-23T00:25:32	0:00:07	Rugby	Rath_Todd	Equip Fail Pole	rain, lightning and high winds Replace broken pole.
	Substation	RBY	125	2022-09-23T01:15:43	2022-09-23T01:20:55	0:05:12	Rugby	Rath_Todd	Equip Fail Pole	Replace broken pole.
	Substation	RBY	125	2022-12-12T20:38:23	2022-12-12T20:38:30	0:00:07	Rugby	Rath_Todd	Equip Fail Insulator	Insulator tracked across burning pole off
	Substation	RBY	125	2022-12-15T07:59:11	2022-12-15T08:18:49	0:19:38	Rugby	Rath_Todd	Weather	Icing conditions high winds/blizzard
	Substation	RBY	125	2022-12-15T13:14:09	2022-12-15T13:14:18	0:00:09	Rugby	Rath_Todd	Weather	Icing conditions high winds/blizzard
	Substation	RBY	125	2022-12-15T13:19:23	2022-12-15T13:19:30	0:00:07	Rugby	Rath_Todd	Weather	Icing conditions high winds/blizzard
	Substation	RBY	125	2022-12-15T18:34:47	2022-12-15T18:34:54	0:00:07	Rugby	Rath_Todd	Weather	Icing conditions high winds/blizzard
	Substation	RBY	125	2022-12-16T04:58:48	2022-12-16T11:22:05	6:23:17	Rugby	Rath_Todd	Weather	Icing conditions high winds/blizzard
	Substation	RBY	125	2022-12-22T09:45:03	2022-12-22T10:06:27	0:21:24	Rugby	Rath_Todd	Weather	Blizzard - high winds ice and snow - broken phase, guy wires and other issues
	Substation	RBY	125	2022-12-25T07:26:31	2022-12-25T07:26:42	0:00:11	Rugby	Rath_Todd	Weather	Blizzard - high winds ice and snow - broken phase, guy wires...
	Substation	RBY	125	2022-12-25T15:29:16	2022-12-25T15:29:33	0:00:17	Rugby	Rath_Todd	Weather	Blizzard - high winds ice and snow - broken phase, guy wires... Itron meter voltage source failure
	Substation	RBY	251	2022-01-13T10:45:45	2022-01-13T13:19:37	2:33:52	Jamestown	Baker_Grant		JCH audited 1/28/22. (Planned). Repair switch at Grand Rapids Junction Sub. No customers impacted
	Substation	RBY	251	2022-04-01T19:07:00	2022-04-01T19:07:14	0:00:14	Jamestown	Baker_Grant	Equip Fail Arrester	2 failed arresters and a broken insulator between Litchville Minnkota sub and Litchville sub.
	Substation	RBY	251	2022-04-01T19:07:49	2022-04-01T19:07:55	0:00:06	Jamestown	Baker_Grant	Equip Fail Arrester	2 failed arresters and a broken insulator between Litchville Minnkota sub and Litchville sub.
	Substation	RBY	251	2022-04-01T22:10:33	2022-04-01T22:56:58	0:46:25	Jamestown	Baker_Grant	Equip Fail Insulator	Insulator tracked and caused pole to burn off at the crossarm through bolt.
	Substation	RBY	251	2022-04-17T23:41:29	2022-04-17T23:41:38	0:00:09	Jamestown	Baker_Grant	Unknown	Unknown and not patrolled.
	Substation	RBY	251	2022-04-18T00:21:05	2022-04-18T00:21:12	0:00:07	Jamestown	Baker_Grant	Unknown	Unknown and not patrolled.
	Substation	RBY	251	2022-04-19T18:17:00	2022-04-19T18:17:04	0:00:04	Jamestown	Baker_Grant	Unknown	Unknown and not patrolled.
	Substation	RBY	251	2022-04-22T22:18:42	2022-04-22T22:18:48	0:00:06	Jamestown	Baker_Grant	Weather	Storms in the area.
	Substation	RBY	251	2022-04-22T22:42:33	2022-04-22T22:42:39	0:00:06	Jamestown	Baker_Grant	Weather	Storms in the area.
	Substation	RBY	251	2022-05-12T18:56:50	2022-05-12T18:56:57	0:00:07	Jamestown	Baker_Grant	Weather	Storms in the area.
	Substation	RBY	251	2022-05-30T08:14:41	2022-05-30T08:14:48	0:00:07	Jamestown	Baker_Grant	Unknown	Unknown and not investigated.
	Substation	RBY	251	2022-06-08T02:02:53	2022-06-08T02:02:59	0:00:06	Jamestown	Baker_Grant	Unknown	Unknown and not investigated.
	Substation	RBY	251	2022-06-14T05:17:11	2022-06-14T05:17:17	0:00:06	Jamestown	Baker_Grant	Vegetation	Trees in the line caused the breaker to open.
	Substation	RBY	251	2022-06-14T05:38:15	2022-06-14T05:38:51	0:00:36	Jamestown	Baker_Grant	Weather	Storm in the area.
	Substation	RBY	251	2022-06-14T05:42:08	2022-06-14T05:42:14	0:00:06	Jamestown	Baker_Grant	Weather	Storm in the area.
	Substation	RBY	251	2022-06-14T05:46:11	2022-06-14T07:46:38	2:00:27	Jamestown	Baker_Grant	Weather	Storm in the area. JCH audited 7/28/22
	Substation	RBY	251	2022-06-20T17:05:32	2022-06-20T21:52:02	4:46:30	Jamestown	Baker_Grant	Vegetation	Tree in the line in Marion City Park. JCH Audited 7/28/22
	Substation	RBY	251	2022-06-24T21:15:38	2022-06-24T21:15:43	0:00:05	Jamestown	Baker_Grant	Weather	Storm in the area.
	Substation	RBY	251	2022-06-24T21:50:41	2022-06-24T21:50:48	0:00:07	Jamestown	Baker_Grant	Weather	Storm in the area.
	Substation	RBY	251	2022-06-29T23:32:13	2022-06-29T23:32:21	0:00:08	Jamestown	Baker_Grant	Vegetation	Tree blew over in the storm and caused downed conductor near 501 2nd Ave, Berlin.
	Substation	RBY	251	2022-06-29T23:41:22	2022-06-29T23:41:28	0:00:06	Jamestown	Baker_Grant	Vegetation	Tree blew over in the storm and caused downed conductor near 501 2nd Ave, Berlin.
	Substation	RBY	251	2022-06-29T23:42:13	2022-06-29T23:42:15	0:00:02	Jamestown	Baker_Grant	Vegetation	Tree blew over in the storm and caused downed conductor near 501 2nd Ave, Berlin.
	Substation	RBY	251	2022-06-29T23:49:05	2022-06-29T23:49:11	0:00:06	Jamestown	Baker_Grant	Vegetation	Tree blew over in the storm and caused downed conductor near 501 2nd Ave, Berlin.
	Substation	RBY	251	2022-07-11T20:15:43	2022-07-11T20:15:49	0:00:06	Jamestown	Baker_Grant	Equip Fail Underground	Underground primary fault in Memorial Park.
	Substation	RBY	251	2022-07-12T09:48:01	2022-07-12T09:48:09	0:00:08	Jamestown	Baker_Grant	Equip Fail Underground	Underground primary fault in Memorial Park. 2 blown riser fuses while troubleshooting.
	Substation	RBY	251	2022-07-12T10:31:34	2022-07-12T10:31:40	0:00:06	Jamestown	Baker_Grant	Equip Fail Underground	Underground primary fault in Memorial Park. 2 blown riser fuses while troubleshooting.
	Substation	RBY	251	2022-07-18T23:05:45	2022-07-18T23:05:52	0:00:07	Jamestown	Baker_Grant	Equip Fail Arrester	Blown cutout fuse and blown arrester. Need to replace arrester at a later date.
	Substation	RBY	251	2022-07-30T11:58:34	2022-07-30T11:58:41	0:00:07	Jamestown	Baker_Grant	Unknown	Unknown and not patrolled.
	Substation	RBY	251	2022-08-06T17:59:44	2022-08-06T17:59:50	0:00:06	Jamestown	Baker_Grant	Unknown	Unknown and not patrolled.
	Substation	RBY	251	2022-08-16T13:12:22	2022-08-16T13:12:28	0:00:06	Jamestown	Baker_Grant	Vehicle Accident	Farmer broke pole while doing field work approximately 1.5 miles south of Marion.
	Substation	RBY	251	2022-09-11T11:07:05	2022-09-11T11:07:12	0:00:07	Jamestown	Baker_Grant	Unknown	Unknown and not investigated.
	Substation	RBY	251	2022-09-14T10:24:44	2022-09-14T10:24:51	0:00:07	Jamestown	Baker_Grant	Unknown	Unknown and not investigated.
	Substation	RBY	251	2022-09-16T12:41:23	2022-09-16T12:41:30	0:00:07	Jamestown	Baker_Grant	Unknown	Unknown and not investigated.
	Substation	RBY	251	2022-09-17T13:47:35	2022-09-17T13:47:42	0:00:07	Jamestown	Baker_Grant	Unknown	Unknown and not investigated.
	Substation	RBY	251	2022-09-23T11:53:11	2022-09-23T11:53:21	0:00:10	Jamestown	Baker_Grant	Unknown	Unknown and not investigated.
	Substation	RBY	251	2022-10-02T13:35:44	2022-10-02T13:35:50	0:00:06	Jamestown	Baker_Grant	Weather	Lightning in the area.
	Substation	RBY	251	2022-10-15T09:42:45	2022-10-15T09:42:52	0:00:07	Jamestown	Baker_Grant	Unknown	Unknown and not investigated.
	Substation	RBY	251	2022-11-06T09:32:53	2022-11-06T09:32:59	0:00:06	Jamestown	Baker_Grant	Weather	Strong winds with flying debris.

Equipment ID	Equipment Type	Phase(s)	Customers	Outage Start	Outage End	Duration	Customer Service Center	Region	Cause	Notes
	Substation	RBY	251	2022-11-06T11:36:59	2022-11-06T11:37:05	0:00:06	Jamestown	Baker_Grant	Weather	Strong winds with flying debris.
	Substation	RBY	251	2022-11-09T18:49:12	2022-11-09T20:12:45	1:23:33	Jamestown	Baker_Grant	Weather	Galloping lines caused by freezing rain and windy conditions.
	Substation	RBY	251	2022-11-09T20:56:29	2022-11-09T20:56:37	0:00:08	Jamestown	Baker_Grant	Weather	Galloping lines caused by freezing rain and windy conditions.
	Substation	RBY	251	2022-11-09T21:38:21	2022-11-09T21:41:32	0:03:11	Jamestown	Baker_Grant	Weather	Galloping lines caused by freezing rain and windy conditions.
	Substation	RBY	251	2022-12-03T17:08:58	2022-12-03T17:09:06	0:00:08	Jamestown	Baker_Grant	Unknown	Unknown and not patrolled.
	Substation	RY	126	2022-07-10T04:58:30	2022-07-10T04:59:41	0:01:11	Rugby	Bartholomay_Seth	Weather	Storms rolled through the area causing damage throughout its path.
	Substation	RY	126	2022-07-22T21:59:25	2022-07-22T22:07:33	0:08:08	Rugby	Bartholomay_Seth	Weather	rain, lightning and high winds
	Substation	RY	126	2022-07-25T23:36:20	2022-07-25T23:37:25	0:01:05	Rugby	Bartholomay_Seth	Weather	Storm moving through - high winds and lightning
	Substation	RY	126	2022-07-25T23:45:38	2022-07-25T23:45:55	0:00:17	Rugby	Bartholomay_Seth	Weather	Storm cell moved through the area.
	Substation	RY	126	2022-07-26T00:02:37	2022-07-26T00:02:54	0:00:17	Rugby	Bartholomay_Seth	Weather	Storm cell moved through the area.
	Substation	BR	9	2022-03-13T15:15:15	2022-03-13T15:15:33	0:00:18	Devils_Lake	Chase_Scott	Unknown	Unknown
	Substation	BR	9	2022-03-14T22:56:36	2022-03-14T22:56:56	0:00:20	Devils_Lake	Chase_Scott	Unknown	Unknown
	Substation	BR	9	2022-03-15T11:32:34	2022-03-15T11:32:51	0:00:17	Devils_Lake	Chase_Scott	Unknown	Unknown
	Substation	BR	9	2022-04-23T05:56:13	2022-04-23T05:56:35	0:00:22	Devils_Lake	Chase_Scott	Weather	Significant thunder storm/icing storm/extremely high wind event - lines slapping together, trees, icing galloping lines, broken ties, broken insulators, broken poles.
	Substation	BR	9	2022-05-09T02:33:05	2022-05-09T02:33:28	0:00:23	Devils_Lake	Chase_Scott	Weather	Storm moved through area
	Substation	B	3	2022-05-11T20:53:24	2022-05-11T20:53:31	0:00:07	Devils_Lake	Chase_Scott	Unknown	Unknown
	Substation	BR	9	2022-06-15T06:32:58	2022-06-15T06:33:14	0:00:16	Devils_Lake	Chase_Scott	Equip Fail Pole	Broken pole in store that moved through
	Substation	B	3	2022-06-24T17:28:18	2022-06-24T17:28:25	0:00:07	Devils_Lake	Chase_Scott	Weather	Severe storm moved through. Lightning struck 4 poles
	Substation	BR	9	2022-07-15T15:16:38	2022-07-15T15:16:59	0:00:21	Devils_Lake	Chase_Scott	Unknown	Unknown
	Substation	BR	9	2022-07-22T23:38:42	2022-07-22T23:39:04	0:00:22	Devils_Lake	Chase_Scott	Weather	Storm moving through - high winds and lightning
	Substation	BR	9	2022-07-22T23:55:36	2022-07-22T23:55:58	0:00:22	Devils_Lake	Chase_Scott	Weather	Storm moving through - high winds and lightning
	Substation	BR	9	2022-07-23T00:03:37	2022-07-23T00:04:50	0:01:13	Devils_Lake	Chase_Scott	Weather	Storm moving through - high winds and lightning
	Substation	BR	9	2022-08-30T18:54:25	2022-08-30T18:54:44	0:00:19	Devils_Lake	Chase_Scott	Unknown	Unknown
	Substation	BR	9	2022-09-01T14:11:21	2022-09-01T16:04:47	1:53:26	Devils_Lake	Chase_Scott	Planned	Replaced a bad distribution pole
	Substation	BR	9	2022-09-04T07:48:26	2022-09-04T07:48:46	0:00:20	Devils_Lake	Chase_Scott	Unknown	Unknown
	Substation	BR	9	2022-12-15T11:46:54	2022-12-15T11:47:15	0:00:21	Devils_Lake	Chase_Scott	Weather	Icing - blizzard conditions high winds
	Substation	RBY	72	2022-01-08T09:27:40	2022-01-08T11:22:24	1:54:44	Rugby	Peterson_Paul	Planned	Planned outage to repair Xarm's are multiple poles
	Substation	RBY	72	2022-06-13T22:16:40	2022-06-13T22:16:48	0:00:08	Rugby	Peterson_Paul	Weather	Stormy weather with high winds traveled through the CSC causing blinks
	Substation	RBY	72	2022-06-14T09:18:40	2022-06-14T09:53:33	0:34:53	Rugby	Peterson_Paul	Equip Fail Cutout	High side cutout failed
	Substation	RBY	72	2022-12-29T07:10:01	2022-12-29T11:05:20	3:55:19	Rugby	Peterson_Paul	Equip Fail Underground	Underground primary fault
	Substation	BRY	52	2022-01-04T21:13:43	2022-01-04T23:01:19	1:47:36	Devils_Lake	Ramberg_Jason	Equip Fail Insulator	Insulator Pin broke. JCH audited 2/28/22
	Substation	RBY	52	2022-02-23T04:39:09	2022-02-23T04:40:23	0:01:14	Devils_Lake	Ramberg_Jason	Equip Fail Conductor	Broken conductor on 41.6kv line
	Substation	Y	14	2022-03-16T11:05:38	2022-03-16T11:05:45	0:00:07	Devils_Lake	Ramberg_Jason	Unknown	Unknown
	Substation	BRY	52	2022-05-15T03:01:16	2022-05-15T03:01:44	0:00:28	Devils_Lake	Ramberg_Jason	Unknown	Unknown
	Substation	RBY	52	2022-07-14T11:27:35	2022-07-14T11:27:58	0:00:23	Devils_Lake	Ramberg_Jason	Unknown	Unknown
	Substation	BR	42	2022-07-18T03:31:01	2022-07-18T03:31:11	0:00:10	Devils_Lake	Ramberg_Jason	Weather	Weather system moved through with wind and lightning
	Substation	Y	10	2022-07-18T03:31:14	2022-07-18T03:31:23	0:00:09	Devils_Lake	Ramberg_Jason	Weather	Weather system moved through with wind and lightning
	Substation	BRY	52	2022-07-18T14:04:38	2022-07-18T15:16:46	1:12:08	Devils_Lake	Ramberg_Jason	Equip Fail Insulator	Insulator tracked across burning pole top off.
	Substation	BRY	52	2022-07-22T23:17:53	2022-07-22T23:18:09	0:00:16	Devils_Lake	Ramberg_Jason	Weather	Storm moving through - high winds and lightning
	Substation	RY	33	2022-07-22T23:21:49	2022-07-22T23:22:09	0:00:20	Devils_Lake	Ramberg_Jason	Weather	Storm moving through - high winds and lightning
	Substation	R	23	2022-12-15T11:40:02	2022-12-15T11:40:09	0:00:07	Devils_Lake	Ramberg_Jason	Weather	Icing - blizzard conditions high winds
	Substation	R	23	2022-12-15T12:48:42	2022-12-15T12:48:49	0:00:07	Devils_Lake	Ramberg_Jason	Weather	icing - blizzard with high winds
	Substation	R	23	2022-12-15T15:01:31	2022-12-15T15:01:39	0:00:08	Devils_Lake	Ramberg_Jason	Weather	Icing on lines with high winds - blizzard
	Substation	B	23	2022-12-15T15:13:35	2022-12-15T15:13:47	0:00:12	Devils_Lake	Ramberg_Jason	Weather	Icing on lines with high winds - blizzard
	Substation	R	23	2022-12-15T16:28:50	2022-12-15T16:28:56	0:00:06	Devils_Lake	Ramberg_Jason	Weather	Icing on lines with high winds - blizzard
	Substation	R	23	2022-12-15T16:31:00	2022-12-15T16:31:06	0:00:06	Devils_Lake	Ramberg_Jason	Weather	Icing on lines with high winds - blizzard
	Substation	R	23	2022-12-15T17:04:48	2022-12-15T17:04:55	0:00:07	Devils_Lake	Ramberg_Jason	Weather	Icing on lines with high winds - blizzard
	Substation	B	20	2022-12-15T17:05:09	2022-12-15T17:05:16	0:00:07	Devils_Lake	Ramberg_Jason	Weather	Icing on lines with high winds - blizzard
	Substation	B	23	2022-12-15T17:07:21	2022-12-15T17:07:36	0:00:15	Devils_Lake	Ramberg_Jason	Weather	Icing on lines with high winds - blizzard
	Substation	RY	33	2022-12-15T17:09:27	2022-12-15T17:09:43	0:00:16	Devils_Lake	Ramberg_Jason	Weather	Icing on lines with high winds - blizzard
	Substation	B	23	2022-12-15T17:31:40	2022-12-15T17:31:47	0:00:07	Devils_Lake	Ramberg_Jason	Weather	Icing on lines with high winds - blizzard
	Substation	R	23	2022-12-15T17:33:45	2022-12-15T17:33:52	0:00:07	Devils_Lake	Ramberg_Jason	Weather	Icing on lines with high winds - blizzard
	Substation	BRY	52	2022-12-19T01:05:59	2022-12-19T01:22:32	0:16:33	Devils_Lake	Ramberg_Jason	Equip Fail Insulator	Broken crossarm, broken phase,floator
	Feeder	RBY	429	2022-05-20T09:57:19	2022-05-20T10:08:50	0:11:31	Wahpeton	Hovel_Loren	Equip Fail Pole	Changing out a broken pole and it snapped in half near the top and caused phase to phase contact.
	Feeder	RBY	429	2022-09-17T18:40:44	2022-09-17T18:40:50	0:00:06	Wahpeton	Hovel_Loren	Equip Fail Underground	UG fault
	Feeder	RBY	429	2022-09-17T20:28:53	2022-09-17T20:28:59	0:00:06	Wahpeton	Hovel_Loren	Equip Fail Underground	UG fault

Equipment ID	Equipment Type	Phase(s)	Customers	Outage Start	Outage End	Duration	Customer Service Center	Region	Cause	Notes
	Feeder	RBY	429	2022-09-17T20:58:29	2022-09-17T20:58:35	0:00:06	Wahpeton	Hovel_Loren	Equip Fail Underground	UG fault
	Feeder	RBY	429	2022-09-26T13:04:33	2022-09-26T13:04:40	0:00:07	Wahpeton	Hovel_Loren	Planned	House move in the area
	Feeder	RBY	429	2022-10-03T08:25:19	2022-10-03T08:25:26	0:00:07	Wahpeton	Hovel_Loren	Animal	Squirrel on riser pole
	Feeder	RBY	429	2022-10-07T15:34:00	2022-10-07T15:34:05	0:00:05	Wahpeton	Hovel_Loren	Animal	Squirrel on line.
	Feeder	RBY	429	2022-11-01T03:05:47	2022-11-01T03:05:54	0:00:07	Wahpeton	Hovel_Loren	Vehicle Accident	Farmer hit neutral and it wrapped up into primary.
	Feeder	RBY	429	2022-11-01T03:56:44	2022-11-01T03:56:50	0:00:06	Wahpeton	Hovel_Loren	Vehicle Accident	Farmer hit neutral and it wrapped up into primary.
	Substation	RBY	15	2022-05-30T19:32:21	2022-05-30T19:32:33	0:00:12	Wahpeton	Hovel_Loren	Weather	Several strong storms went through the area with high winds and lightning.
	Substation	RBY	15	2022-07-20T20:53:34	2022-07-20T20:53:41	0:00:07	Wahpeton	Hovel_Loren	Vegetation	After patrols we found some tres that are close to line so we will trim them up in the next few days
	Substation	RBY	15	2022-08-21T14:46:46	2022-08-21T14:47:07	0:00:21	Wahpeton	Hovel_Loren	Unknown	Did line patrol to area that was indicated by sel reading and nothing was found. There is a high number of hawks in the area due to migration.
	Substation	RBY	15	2022-10-23T21:53:25	2022-10-23T21:53:38	0:00:13	Wahpeton	Hovel_Loren	Unknown	SEL reading of 7.3 miles so we are patrolling all three directions to find issue.
	Substation	BRY	117	2022-05-12T20:20:08	2022-05-12T20:20:28	0:00:20	Jamestown	Midstokke_Ryne	Weather	Storms in the area.
	Substation	BRY	115	2022-06-14T06:30:19	2022-06-14T06:30:38	0:00:19	Jamestown	Midstokke_Ryne	Weather	Storm in the area.
	Substation	BRY	117	2022-06-20T18:46:27	2022-06-20T18:46:49	0:00:22	Jamestown	Midstokke_Ryne	Weather	Storms in the area.
	Substation	BRY	116	2022-08-19T18:57:43	2022-08-19T18:58:03	0:00:20	Jamestown	Midstokke_Ryne	Unknown	SEL indicated between Hannaford and Walum. Line patrolled but no cause found. There was lightning and rain in the area.
	Substation	BRY	117	2022-11-30T12:59:53	2022-11-30T19:14:19	6:14:26	Jamestown	Midstokke_Ryne	other	Planned outage for installation of new 2-way transmission switch at the Hannaford Sub.
	Substation	BRY	117	2022-12-07T13:00:15	2022-12-07T15:46:45	2:46:30	Jamestown	Midstokke_Ryne	Planned	Planned outage for installation of new 2-way transmission switch at the Hannaford Sub.
	Substation	BRY	117	2022-12-09T13:00:00	2022-12-09T14:39:29	1:39:29	Jamestown	Midstokke_Ryne	Planned	Planned outage for installation of new 2-way transmission switch at the Hannaford Sub.
	Feeder	RBY	529	2022-12-11T11:07:51	2022-12-11T11:07:59	0:00:08	Rugby	Voeller_Dave	Unknown	Unknown
	Feeder	RBY	529	2022-12-29T07:09:43	2022-12-29T07:09:51	0:00:08	Rugby	Voeller_Dave	Unknown	Unknown
	Feeder	RBY	529	2022-12-29T09:17:14	2022-12-29T09:17:25	0:00:11	Rugby	Voeller_Dave	Unknown	Unknown
	Substation	BRY	69	2022-04-22T21:18:36	2022-04-22T21:18:57	0:00:21	Wahpeton	Groesgebauer_John	Weather	Storms with high winds in the whole area.
	Substation	BRY	69	2022-04-22T23:19:43	2022-04-22T23:20:04	0:00:21	Wahpeton	Groesgebauer_John	Weather	Storms with high winds in the whole area.
	Substation	BRY	69	2022-04-22T23:27:06	2022-04-22T23:27:26	0:00:20	Wahpeton	Groesgebauer_John	Weather	Storms with high winds in the whole area.
	Substation	BRY	69	2022-04-23T00:34:02	2022-04-23T00:34:22	0:00:20	Wahpeton	Groesgebauer_John	Weather	Storms with high winds in the whole area.
	Substation	BRY	69	2022-04-23T00:49:11	2022-04-23T00:49:32	0:00:21	Wahpeton	Groesgebauer_John	Weather	Storms with high winds in the whole area.
	Substation	BRY	69	2022-04-23T00:50:38	2022-04-23T00:50:59	0:00:21	Wahpeton	Groesgebauer_John	Weather	Storms with high winds in the whole area.
	Substation	BRY	69	2022-05-09T07:17:45	2022-05-09T07:18:13	0:00:28	Wahpeton	Groesgebauer_John	Weather	Strong thunderstorms with lots of lightning and heavy rain in the area.
	Substation	BRY	69	2022-05-09T07:33:41	2022-05-09T07:34:01	0:00:20	Wahpeton	Groesgebauer_John	Weather	Strong thunderstorms with lots of lightning and heavy rain in the area.
	Substation	BRY	69	2022-05-09T07:36:01	2022-05-09T07:39:56	0:03:55	Wahpeton	Groesgebauer_John	Weather	Strong thunderstorms with lots of lightning and heavy rain in the area.
	Substation	BRY	69	2022-07-10T21:18:33	2022-07-10T21:27:42	0:09:09	Wahpeton	Groesgebauer_John	Weather	Strong storms in the area and 230 line tripped out.
	Substation	RY	42	2022-10-13T10:55:29	2022-10-13T10:55:44	0:00:15	Wahpeton	Groesgebauer_John	Unknown	No customer calls
	Substation	BRY	69	2022-11-01T15:19:03	2022-11-01T16:02:43	0:43:40	Wahpeton	Groesgebauer_John	other	Smoke from a grass fire caused line to arc out.
	Substation	BRY	69	2022-11-10T10:39:45	2022-11-10T10:40:05	0:00:20	Wahpeton	Groesgebauer_John	Weather	Ice on lines caused multiple outages also had 9 polrd break off due to ice.
	Substation	RBY	69	2022-11-10T16:17:59	2022-11-10T16:18:19	0:00:20	Wahpeton	Groesgebauer_John	Weather	Ice on lines caused multiple outages also had 9 polrd break off due to ice.
	Substation	R	8	2022-04-23T15:29:09	2022-04-23T15:29:18	0:00:09	Jamestown	Hoggarth_Tyler	Weather	Rain, lightning, storms in the area.
	Substation	R	8	2022-05-09T01:14:55	2022-05-09T01:15:05	0:00:10	Jamestown	Hoggarth_Tyler	Weather	Storms in the area.
	Substation	R	8	2022-06-14T04:55:20	2022-06-14T04:55:28	0:00:08	Jamestown	Hoggarth_Tyler	Weather	Storm in the area.
	Substation	R	8	2022-06-14T04:58:09	2022-06-14T04:58:16	0:00:07	Jamestown	Hoggarth_Tyler	Weather	Storm in the area.
	Substation	R	8	2022-07-10T06:10:26	2022-07-10T06:10:35	0:00:09	Jamestown	Hoggarth_Tyler	Weather	Storms with strong winds, rain, lightning.
	Substation	R	8	2022-07-23T10:00:32	2022-07-23T10:00:37	0:00:05	Jamestown	Hoggarth_Tyler	Unknown	Unknown and not patrolled.
	Substation	R	8	2022-08-02T20:03:56	2022-08-02T20:04:01	0:00:05	Jamestown	Hoggarth_Tyler	Unknown	Unknown and not patrolled.
	Substation	R	8	2022-08-15T11:17:02	2022-08-15T11:17:10	0:00:08	Jamestown	Hoggarth_Tyler	Weather	Lightning storm in the area.
	Substation	R	8	2022-08-26T15:32:36	2022-08-26T15:32:42	0:00:06	Jamestown	Hoggarth_Tyler	Vegetation	SEL reading of 4.3 miles west of Carrington breaker # 535. Line patrolled and found a span of trees getting into transmission line.
	Substation	R	8	2022-09-14T13:15:35	2022-09-14T13:15:41	0:00:06	Jamestown	Hoggarth_Tyler	Unknown	Investigated but cause unknown.
	Substation	R	8	2022-11-12T08:01:36	2022-11-12T08:04:08	0:02:32	Jamestown	Hoggarth_Tyler	Equip Fail Substation	WAPA Carrington failed 115/41.6 transformer.
	Substation	R	8	2022-12-12T08:31:12	2022-12-12T08:31:21	0:00:09	Jamestown	Hoggarth_Tyler	Equip Fail Insulator	Broken insulator between Carrington 535 and Sykeston 511.
	Substation	R	8	2022-12-12T10:02:30	2022-12-12T10:02:39	0:00:09	Jamestown	Hoggarth_Tyler	Equip Fail Insulator	Broken insulator between Carrington 535 and Sykeston 511.
	Substation	R	8	2022-12-12T10:08:52	2022-12-12T12:00:24	1:51:32	Jamestown	Hoggarth_Tyler	Equip Fail Insulator	Broken insulator between Carrington 535 and Sykeston 511.

Equipment ID	Equipment Type	Phase(s)	Customers	Outage Start	Outage End	Duration	Customer Service Center	Region	Cause	Notes
	Substation	R	8	2022-12-15T13:14:10	2022-12-15T13:14:19	0:00:09	Jamestown	Hoggarth_Tyler	Planned	Switching sections of transmission line out to replace insulators and crossarms
	Substation	R	8	2022-12-16T04:58:48	2022-12-16T05:03:31	0:04:43	Jamestown	Hoggarth_Tyler	Planned	Switching sections of transmission line out to replace insulators and crossarms
	Substation	R	8	2022-12-16T15:29:46	2022-12-16T15:30:10	0:00:24	Jamestown	Hoggarth_Tyler	Planned	Switching sections of transmission line out to replace insulators and crossarms
	Substation	R	8	2022-12-16T18:25:42	2022-12-16T18:26:02	0:00:20	Jamestown	Hoggarth_Tyler	Planned	Switching sections of transmission line out to replace insulators and crossarms
	Substation	RBY	577	2022-04-12T11:40:40	2022-04-12T11:43:20	0:02:40	Morris	Denison_Bill	other	Something with Sysop and switching
	Substation	RBY	185	2022-02-02T08:03:07	2022-02-02T08:21:08	0:18:01	Crookston	Mattern_Marlin	Equip Fail Other	Conductor broke at end of armor rod, line was not switched normally because of work being done in the Hensel area
	Substation	RBY	185	2022-02-02T08:53:08	2022-02-02T08:53:14	0:00:06	Crookston	Mattern_Marlin	other	Line switched to pick up outage and loading incorrect from source and line was overloaded and operated
	Substation	RBY	185	2022-02-02T09:30:00	2022-02-02T09:30:07	0:00:07	Crookston	Mattern_Marlin	other	Line switched to pick up outage and loading incorrect from source and line was overloaded and operated
	Substation	RBY	185	2022-02-15T18:25:57	2022-02-15T18:26:03	0:00:06	Crookston	Mattern_Marlin		
	Substation	RBY	185	2022-06-18T14:52:24	2022-06-18T14:52:48	0:00:24	Crookston	Mattern_Marlin		
	Substation	RBY	185	2022-06-18T14:54:01	2022-06-18T18:01:23	3:07:22	Crookston	Mattern_Marlin	Vegetation	Tree across 40KV by Grafton, Larry has been emailed on this to line up some tree trimming. JCH Audited 7/28/22
	Substation	RBY	185	2022-06-24T15:02:03	2022-06-24T15:03:32	0:01:29	Crookston	Mattern_Marlin		
	Substation	RBY	185	2022-06-24T15:04:40	2022-06-24T15:11:58	0:07:18	Crookston	Mattern_Marlin		
	Substation	RBY	185	2022-06-24T15:16:46	2022-06-24T15:16:52	0:00:06	Crookston	Mattern_Marlin		
	Substation	RBY	185	2022-07-14T19:10:54	2022-07-14T19:11:03	0:00:09	Crookston	Mattern_Marlin		
	Substation	RBY	185	2022-07-20T07:54:01	2022-07-20T07:54:12	0:00:11	Crookston	Mattern_Marlin		
	Substation	RBY	185	2022-07-22T23:46:46	2022-07-22T23:46:53	0:00:07	Crookston	Mattern_Marlin		
	Substation	RBY	185	2022-07-23T00:03:02	2022-07-23T00:03:08	0:00:06	Crookston	Mattern_Marlin		
	Substation	RBY	185	2022-07-23T00:04:56	2022-07-23T00:05:03	0:00:07	Crookston	Mattern_Marlin		
	Substation	RBY	185	2022-07-23T00:12:14	2022-07-23T00:12:20	0:00:06	Crookston	Mattern_Marlin		
	Substation	RBY	185	2022-07-29T01:29:34	2022-07-29T01:29:42	0:00:08	Crookston	Mattern_Marlin		
	Substation	RBY	185	2022-08-18T04:21:40	2022-08-18T04:21:48	0:00:08	Crookston	Mattern_Marlin		
	Substation	RBY	185	2022-08-18T11:23:02	2022-08-18T11:23:07	0:00:05	Crookston	Mattern_Marlin		
	Substation	RBY	185	2022-09-07T22:56:11	2022-09-07T22:57:20	0:01:09	Crookston	Mattern_Marlin		
	Substation	RBY	185	2022-09-21T00:22:44	2022-09-21T00:22:51	0:00:07	Crookston	Mattern_Marlin		
	Substation	RBY	1	2022-04-17T03:43:34	2022-04-17T03:43:40	0:00:06	Wahpeton	Morrison_Ray	Equip Fail Pole	Pole fell over in the wind had to be pushed back and anchored.
	Substation	RBY	1	2022-04-22T23:49:56	2022-04-22T23:51:21	0:01:25	Wahpeton	Morrison_Ray	Weather	Storms with high winds in the whole area.
	Substation	RBY	1	2022-04-23T02:10:55	2022-04-23T02:13:03	0:02:08	Wahpeton	Morrison_Ray	Weather	Storms with high winds in the whole area.
	Substation	RBY	1	2022-05-08T16:47:23	2022-05-08T17:42:38	0:55:15	Wahpeton	Morrison_Ray	Equip Fail Arrester	Arrester in Sub Station failed
	Substation	RBY	1	2022-05-29T01:26:49	2022-05-29T01:26:53	0:00:04	Wahpeton	Morrison_Ray	Weather	Storms in the area
	Substation	RBY	1	2022-07-04T15:07:37	2022-07-04T18:18:53	3:11:16	Wahpeton	Morrison_Ray	Itron meter failure	Audited 7/28/22. Per Dale Rubish
	Substation	RBY	1	2022-10-19T20:47:45	2022-10-19T20:48:28	0:00:43	Wahpeton	Morrison_Ray	Equip Fail Conductor	broken tie wire caused two wires to make contact with each other.
	Substation	BRY	2	2022-11-12T09:47:58	2022-11-12T11:26:22	1:38:24	Wahpeton	Morrison_Ray		
	Substation	RBY	1	2022-11-15T21:19:32	2022-11-15T21:19:48	0:00:16	Wahpeton	Morrison_Ray		
	Substation	RBY	1	2022-12-13T16:44:31	2022-12-13T17:05:10	0:20:39	Wahpeton	Morrison_Ray	Weather	Heavy snow on insulators was causing tracking to the poles and breakers tripped and would not hold.
	Substation	RBY	1	2022-12-13T18:00:05	2022-12-13T18:01:15	0:01:10	Wahpeton	Morrison_Ray	Weather	Heavy snow on insulators was causing tracking to the poles and breakers tripped and would not hold.
	Substation	RBY	1	2022-12-13T18:49:54	2022-12-13T18:50:37	0:00:43	Wahpeton	Morrison_Ray	Weather	Heavy snow on insulators was causing tracking to the poles and breakers tripped and would not hold.
	Substation	RBY	1	2022-12-13T19:26:34	2022-12-13T19:34:23	0:07:49	Wahpeton	Morrison_Ray	Weather	Heavy snow on insulators was causing tracking to the poles and breakers tripped and would not hold.
	Substation	B	1	2022-12-23T09:52:10	2022-12-26T09:52:10	72:00:00	Wahpeton	Morrison_Ray	Itron meter failure	RDJ 1/1/23
	Substation	B	1	2022-12-28T11:11:27	2022-12-28T11:22:43	0:11:16	Wahpeton	Morrison_Ray		
	Substation	RBY	1	2022-12-28T12:26:26	2022-12-28T14:21:00	1:54:34	Wahpeton	Morrison_Ray		
	Substation	RBY	89	2022-04-24T08:21:26	2022-04-24T08:21:37	0:00:11	Rugby	Rath_Todd	Weather	Severe Weather including High winds, Freezing rain, Snow and rain caused Broken poles, switches, Xarms, wire and insulators leading to multiple power outages throughout the area.
	Substation	RBY	89	2022-04-24T08:22:29	2022-04-24T08:38:13	0:15:44	Rugby	Rath_Todd	Weather	Severe Weather including High winds, Freezing rain, Snow and rain caused Broken poles, switches, Xarms, wire and insulators leading to multiple power outages throughout the area.
	Substation	RBY	89	2022-05-02T13:57:05	2022-05-02T14:08:52	0:11:47	Rugby	Rath_Todd	Animal	Squirrel tripped breaker
	Substation	RBY	89	2022-05-09T13:37:57	2022-05-09T13:38:04	0:00:07	Rugby	Rath_Todd	Weather	Stormy weather rolled through the area with lightning and heavy winds.
	Substation	RBY	89	2022-06-20T02:25:13	2022-06-20T02:25:21	0:00:08	Rugby	Rath_Todd	Unknown	SRep could not find a reason for the blink
	Substation	RBY	89	2022-06-20T02:37:02	2022-06-20T02:37:09	0:00:07	Rugby	Rath_Todd	Unknown	SRep could not find a reason for the blink

Equipment ID	Equipment Type	Phase(s)	Customers	Outage Start	Outage End	Duration	Customer Service Center	Region	Cause	Notes
	Substation	RBY	89	2022-06-21T12:30:10	2022-06-21T12:30:17	0:00:07	Rugby	Rath_Todd	Unknown	SRep could not see a reason for the bumps.
	Substation	RBY	89	2022-06-21T12:33:09	2022-06-21T12:33:16	0:00:07	Rugby	Rath_Todd	Unknown	SRep could not see a reason for the bumps.
	Substation	RBY	89	2022-06-21T12:38:38	2022-06-21T12:38:45	0:00:07	Rugby	Rath_Todd	Unknown	SRep could not see a reason for the bumps.
	Substation	RBY	89	2022-06-29T05:01:16	2022-06-29T05:02:19	0:01:03	Rugby	Rath_Todd	Unknown	SReps could not find a reason for the quick blink's in the area
	Substation	RBY	89	2022-07-02T23:02:33	2022-07-02T23:02:41	0:00:08	Rugby	Rath_Todd	Unknown	SRep could not find a reason for short blink
	Substation	RBY	89	2022-07-04T01:43:15	2022-07-04T01:43:23	0:00:08	Rugby	Rath_Todd	Unknown	SRep could not find a reason for short blink
										Storms rolled through the area causing damage throughout its path.
	Substation	RBY	89	2022-07-10T05:09:59	2022-07-10T05:11:04	0:01:05	Rugby	Rath_Todd	Weather	rain, lightning and high winds
	Substation	RBY	89	2022-09-23T00:25:28	2022-09-23T00:25:35	0:00:07	Rugby	Rath_Todd	Equip Fail Pole	Replace broken pole.
	Substation	RBY	89	2022-09-23T01:15:46	2022-09-23T01:20:58	0:05:12	Rugby	Rath_Todd	Equip Fail Pole	Replace broken pole.
	Substation	RBY	89	2022-12-12T20:38:07	2022-12-12T20:38:14	0:00:07	Rugby	Rath_Todd	Equip Fail Insulator	Insulator tracked across burning pole off
	Substation	RBY	89	2022-12-15T07:59:13	2022-12-15T08:18:53	0:19:40	Rugby	Rath_Todd	Weather	Icing conditions high winds/blizzard
	Substation	RBY	89	2022-12-15T13:14:13	2022-12-15T13:14:22	0:00:09	Rugby	Rath_Todd	Weather	Icing conditions high winds/blizzard
	Substation	RBY	89	2022-12-16T04:58:48	2022-12-16T09:23:12	4:24:24	Rugby	Rath_Todd	Weather	Icing conditions high winds/blizzard
										Blizzard - high winds, ice and snow, broken phase, guy wires and other issues
	Substation	RBY	89	2022-12-22T09:45:07	2022-12-22T10:26:53	0:41:46	Rugby	Rath_Todd	Weather	
	Substation	RBY	89	2022-12-25T07:26:36	2022-12-25T07:26:46	0:00:10	Rugby	Rath_Todd	Weather	Blizzard - high winds ice and snow - broken phase, guy wires...
	Substation	RBY	89	2022-12-25T15:29:08	2022-12-25T15:29:18	0:00:10	Rugby	Rath_Todd	Weather	Blizzard - high winds ice and snow - broken phase, guy wires...
	Substation	BRY	46	2022-01-08T02:46:47	2022-01-08T02:47:24	0:00:37	Crookston	Klie_Chris		
	Substation	BRY	46	2022-01-11T15:13:21	2022-01-11T15:14:24	0:01:03	Crookston	Klie_Chris		
										Contributing factor to broken insulator is wind and ice with lines galloping. JCH audited 2/28/22
	Substation	BRY	82	2022-02-01T02:31:50	2022-02-01T05:15:07	2:43:17	Crookston	Klie_Chris	Equip Fail Insulator	40KV insulator failure approx. 4 miles west of Forest River causing pole fire. DLS
	Substation	B	20	2022-05-18T22:06:22	2022-05-18T22:07:31	0:01:09	Crookston	Klie_Chris	Equip Fail Insulator	Bad insulator caused pole fire, this line has been approved for extended line however insulators are on back order. DLS
	Substation	BRY	46	2022-05-25T16:12:25	2022-05-25T17:05:21	0:52:56	Crookston	Klie_Chris	Equip Fail Insulator	
	Substation	BRY	46	2022-06-24T17:02:51	2022-06-24T17:04:18	0:01:27	Crookston	Klie_Chris		
	Substation	BRY	46	2022-06-24T17:30:08	2022-06-24T17:31:34	0:01:26	Crookston	Klie_Chris		
	Substation	BRY	46	2022-06-24T18:12:39	2022-06-24T18:14:05	0:01:26	Crookston	Klie_Chris		
	Substation	BRY	45	2022-06-24T22:36:39	2022-06-24T22:42:18	0:05:39	Crookston	Klie_Chris		
	Substation	BRY	46	2022-07-14T17:04:59	2022-07-14T17:06:25	0:01:26	Crookston	Klie_Chris		
	Substation	BRY	46	2022-09-07T22:56:08	2022-09-07T22:57:30	0:01:22	Crookston	Klie_Chris		
										10.1 miles from Oslo according to relay, investigated with no cause found
	Substation	BRY	46	2022-10-30T07:57:13	2022-10-30T07:58:33	0:01:20	Crookston	Klie_Chris	Unknown	Unknown and not investigated.
	Feeder	RBY	351	2022-01-14T14:04:52	2022-01-14T14:05:20	0:00:28	Jamestown	Heilman_Rod	Weather	Freezing rain with high winds caused interruptions.
	Feeder	RBY	351	2022-01-31T23:46:01	2022-01-31T23:46:07	0:00:06	Jamestown	Heilman_Rod	Weather	Freezing rain with high winds caused interruptions.
	Feeder	RBY	351	2022-02-01T02:37:19	2022-02-01T02:37:26	0:00:07	Jamestown	Heilman_Rod	Weather	Freezing rain with high winds caused interruptions.
	Feeder	RBY	351	2022-05-05T12:17:02	2022-05-05T12:18:59	0:01:57	Jamestown	Heilman_Rod	other	Equipment failed while pulling in static on 4th St NW. The feeder was the Downtown NW feeder, not the Downtown NE feeder.
	Feeder	RBY	351	2022-06-13T17:11:22	2022-06-13T17:41:57	0:30:35	Jamestown	Heilman_Rod	other	Phase and secondary contact while working a vertical deadend structure.
	Feeder	RBY	351	2022-07-31T00:04:52	2022-07-31T03:26:50	3:21:58	Jamestown	Heilman_Rod	Equip Fail Underground	Underground primary fault on blue phase at the Post Office 750 mcm.
	Feeder	RBY	351	2022-08-03T10:55:10	2022-08-03T10:55:17	0:00:07	Jamestown	Heilman_Rod	Unknown	Investigated, but no cause found.
	Feeder	RBY	351	2022-08-28T07:15:45	2022-08-28T07:15:50	0:00:05	Jamestown	Heilman_Rod	Weather	Lightning storm in the area. Line patrolled per SEL data, but nothing found.
	Feeder	RBY	351	2022-10-02T08:43:29	2022-10-02T08:43:36	0:00:07	Jamestown	Heilman_Rod	Weather	Lightning in the area.
	Feeder	BYR	571	2022-06-20T00:06:38	2022-06-20T00:07:05	0:00:27	Jamestown	Heilman_Rod	Equip Fail Arrester	Blown arrester on center phase near 7th Ave SE & 2nd St SE.
	Feeder	BYR	571	2022-06-20T00:13:31	2022-06-20T00:13:57	0:00:26	Jamestown	Heilman_Rod	Equip Fail Arrester	Blown arrester on center phase near 7th Ave SE & 2nd St SE.
	Feeder	BYR	571	2022-06-20T05:34:12	2022-06-20T05:34:39	0:00:27	Jamestown	Heilman_Rod	Equip Fail Arrester	Blown arrester on center phase near 7th Ave SE & 2nd St SE.
	Feeder	BYR	569	2022-06-20T22:54:41	2022-06-21T00:15:36	1:20:55	Jamestown	Heilman_Rod	Equip Fail Arrester	Blown arrester on center phase near 7th Ave SE & 2nd St SE.
	Feeder	RBY	572	2022-06-21T12:09:34	2022-06-21T12:28:44	0:19:10	Jamestown	Heilman_Rod	Equip Fail Arrester	Blown arrester on center phase near 7th Ave SE & 2nd St SE.
	Feeder	RBY	610	2022-09-29T11:47:25	2022-09-29T11:47:33	0:00:08	Jamestown	Heilman_Rod	Unknown	Unknown and not investigated.
	Feeder	RBY	1416	2022-03-31T19:30:56	2022-03-31T19:31:02	0:00:06	Jamestown	Heilman_Rod	Unknown	Unknown and not investigated.
	Feeder	RBY	1416	2022-06-02T21:44:27	2022-06-02T21:44:35	0:00:08	Jamestown	Heilman_Rod	Equip Fail Underground	Underground primary fault on radial feed at 210 7th St NW.
	Feeder	RBY	1416	2022-07-12T13:48:08	2022-07-12T13:48:12	0:00:04	Jamestown	Heilman_Rod	Animal	Blown fuse caused by a squirrel.
	Feeder	RBY	1419	2022-06-30T00:26:44	2022-06-30T00:26:52	0:00:08	Jamestown	Heilman_Rod	Equip Fail Fuse unknown cause	2 blown riser poles fuses blown that are east of Cavendish. Patrolled overhead line, no cause found. Storms in the area.
	Feeder	RBY	1419	2022-09-19T14:13:19	2022-09-19T14:13:44	0:00:25	Jamestown	Heilman_Rod	Equip Fail Pole	Pole top burned off at 5th St NE & 85th Ave SE.

Equipment ID	Equipment Type	Phase(s)	Customers	Outage Start	Outage End	Duration	Customer Service Center	Region	Cause	Notes
	Feeder	RBY	1116	2022-01-13T11:46:07	2022-01-13T11:46:12	0:00:05	Jamestown	Heilman_Rod	Unknown	Unknown distribution fault caused Peaking Plant breaker 815 to operate causing Jamestown SE Jct motor-operated switch 781 to open which caused transmission issues between Jamestown and Edgeley load pockets. Cause unknown upon investigation.
	Substation	RBY	1	2022-06-22T10:48:52	2022-06-22T11:05:28	0:16:36	Jamestown	Jamestown	Itron meter voltage source failure	EM&C Tech testing meter at Cavendish.
	Substation	RBY	1	2022-06-22T11:12:02	2022-06-22T11:13:41	0:01:39	Jamestown	Jamestown	Itron meter voltage source failure	EM&C Tech testing meter at Cavendish.
	Substation	RY	38	2022-01-13T11:46:09	2022-01-13T13:28:42	1:42:33	Jamestown	Bruner_Brent	Unknown	Unknown distribution fault caused Peaking Plant breaker 815 to operate causing Jamestown SE Jct motor-operated switch 781 to open which caused transmission issues between Jamestown & Edgeley load pockets. Cause unknown upon investigation. JCH audit 2/28/22
	Substation	RY	38	2022-04-22T22:53:06	2022-04-22T22:53:15	0:00:09	Jamestown	Bruner_Brent	Weather	Storms in the area.
	Substation	RY	37	2022-04-23T00:10:32	2022-04-23T00:10:41	0:00:09	Jamestown	Bruner_Brent	Weather	Storms in the area.
	Substation	RY	38	2022-04-23T00:11:17	2022-04-23T00:11:30	0:00:13	Jamestown	Bruner_Brent	Weather	Storms in the area.
	Substation	RY	38	2022-05-13T12:18:38	2022-05-13T12:19:04	0:00:26	Jamestown	Bruner_Brent	Equip Fail Insulator	Failed insulator caused pole to burn and break off at the crossarm bolt 3 poles south of Dakota Valley Millarton switch 753.
	Substation	RY	38	2022-06-14T05:43:51	2022-06-14T05:44:16	0:00:25	Jamestown	Bruner_Brent	Weather	Storm in the area.
	Substation	RY	38	2022-06-20T16:38:06	2022-06-20T16:44:29	0:06:23	Jamestown	Bruner_Brent	Unknown	Investigated and cause not known. SEL 35.12 from Jamestown and 12.6 from Edgeley.
	Substation	RY	38	2022-06-29T23:29:20	2022-06-29T23:32:25	0:03:05	Jamestown	Bruner_Brent	Vegetation	Storm in the area caused trees, approximately 10 miles north of Edgeley, to contact transmission line which opened the breaker.
	Substation	RY	38	2022-07-07T06:21:40	2022-07-07T06:22:47	0:01:07	Jamestown	Bruner_Brent	Weather	Storms in the area.
	Substation	RY	38	2022-08-28T07:15:24	2022-08-28T07:15:52	0:00:28	Jamestown	Bruner_Brent	Weather	Lightning storm in the area. Line patrolled per SEL data, but nothing found.
	Substation	RY	38	2022-11-06T11:46:51	2022-11-06T12:56:40	1:09:49	Jamestown	Bruner_Brent	Equip Fail Insulator	Broken center phase insulator between Jamestown Radio Station sub and Millarton-Montpelier Sub.
	Substation	RY	38	2022-11-09T20:56:17	2022-11-09T20:56:45	0:00:28	Jamestown	Bruner_Brent	Weather	Galloping lines caused by freezing rain and windy conditions.
	Substation	RY	38	2022-11-10T03:47:18	2022-11-10T03:48:24	0:01:06	Jamestown	Bruner_Brent	Weather	Galloping lines caused by freezing rain and windy conditions.
	Substation	RY	38	2022-11-10T04:05:41	2022-11-10T04:06:07	0:00:26	Jamestown	Bruner_Brent	Weather	Galloping lines caused by freezing rain and windy conditions.
	Substation	RBY	1528	2022-04-22T22:53:03	2022-04-22T22:53:15	0:00:12	Jamestown	Heilman_Rod	Weather	Storms in the area.
	Substation	RBY	1528	2022-05-13T12:18:39	2022-05-13T12:19:04	0:00:25	Jamestown	Heilman_Rod	Equip Fail Insulator	Failed insulator caused pole to burn and break off at the crossarm bolt 3 poles south of Dakota Valley Millarton switch 753.
	Substation	RBY	1528	2022-06-14T05:43:50	2022-06-14T05:44:14	0:00:24	Jamestown	Heilman_Rod	Weather	Storm in the area.
	Substation	RBY	1528	2022-06-20T16:38:03	2022-06-20T16:44:27	0:06:24	Jamestown	Heilman_Rod	Unknown	Investigated and cause not known. SEL 35.12 from Jamestown and 12.6 from Edgeley.
	Substation	RBY	1528	2022-06-29T23:29:20	2022-06-29T23:32:23	0:03:03	Jamestown	Heilman_Rod	Vegetation	Storm in the area caused trees, approximately 10 miles north of Edgeley, to contact transmission line which opened the breaker.
	Substation	RBY	1528	2022-07-07T06:21:41	2022-07-07T06:22:47	0:01:06	Jamestown	Heilman_Rod	Weather	Storms in the area.
	Substation	RBY	1528	2022-08-28T07:15:25	2022-08-28T07:15:50	0:00:25	Jamestown	Heilman_Rod	Weather	Lightning storm in the area. Line patrolled per SEL data, but nothing found.
	Substation	RBY	1528	2022-11-06T11:47:07	2022-11-06T11:50:58	0:03:51	Jamestown	Heilman_Rod	Equip Fail Insulator	Broken center phase insulator between Jamestown Radio Station sub and Millarton-Montpelier Sub.
	Substation	RBY	1528	2022-11-09T20:56:32	2022-11-09T20:56:44	0:00:12	Jamestown	Heilman_Rod	Weather	Galloping lines caused by freezing rain and windy conditions.
	Substation	RBY	1528	2022-11-10T03:47:33	2022-11-10T03:48:24	0:00:51	Jamestown	Heilman_Rod	Weather	Galloping lines caused by freezing rain and windy conditions.
	Substation	RBY	1528	2022-11-10T04:05:56	2022-11-10T04:06:07	0:00:11	Jamestown	Heilman_Rod	Weather	Galloping lines caused by freezing rain and windy conditions.
	Feeder	RBY	639	2022-01-13T11:46:09	2022-01-13T11:46:15	0:00:06	Jamestown	Heilman_Rod	Unknown	Unknown distribution fault caused Peaking Plant breaker 815 to operate causing Jamestown SE Jct motor-operated switch 781 to open which caused transmission issues between Jamestown and Edgeley load pockets. Cause unknown upon investigation.
	Feeder	RBY	639	2022-02-18T10:08:13	2022-02-18T10:08:18	0:00:05	Jamestown	Heilman_Rod	Unknown	Cause unknown and not investigated. Strong winds.
	Feeder	RBY	639	2022-04-06T17:48:17	2022-04-06T20:25:43	2:37:26	Jamestown	Heilman_Rod	Equip Fail Substation	East circuit OCR failed in the Jamestown Southwest sub. JCH audited 4/27/22
	Feeder	RBY	639	2022-04-22T09:30:26	2022-04-22T10:13:05	0:42:39	Jamestown	Heilman_Rod	Equip Fail Insulator	Pole top insulator failed, tracked to pole and burned off pole top with pole top falling onto transformer causing phase-ground fault and burning several holes into transformer tank.
	Feeder	RBY	639	2022-04-23T00:10:32	2022-04-23T00:10:38	0:00:06	Jamestown	Heilman_Rod	Weather	Storm in the area.
	Feeder	RBY	639	2022-04-23T00:11:17	2022-04-23T00:11:27	0:00:10	Jamestown	Heilman_Rod	Weather	Storm in the area.

Equipment ID	Equipment Type	Phase(s)	Customers	Outage Start	Outage End	Duration	Customer Service Center	Region	Cause	Notes
	Feeder	RBY	639	2022-04-23T03:42:20	2022-04-23T03:42:26	0:00:06	Jamestown	Heilman_Rod	Weather	Storms in the area.
	Feeder	RBY	465	2022-01-14T14:04:52	2022-01-14T14:05:21	0:00:29	Jamestown	Heilman_Rod	Unknown	Unknown and not investigated.
	Feeder	RBY	465	2022-01-31T23:46:01	2022-01-31T23:46:08	0:00:07	Jamestown	Heilman_Rod	Weather	Freezing rain with high winds caused interruptions.
	Feeder	RBY	465	2022-02-01T02:37:19	2022-02-01T02:37:26	0:00:07	Jamestown	Heilman_Rod	Weather	Freezing rain with high winds caused interruptions.
	Feeder	RBY	465	2022-05-13T11:14:15	2022-05-13T11:14:19	0:00:04	Jamestown	Heilman_Rod	Equip Fail Insulator	Failed insulator caused pole to burn and break off at the crossarm bolt 3 poles south of Dakota Valley Millarton switch 753.
	Feeder	RBY	927	2022-06-09T16:33:09	2022-06-09T16:44:08	0:10:59	Jamestown	Heilman_Rod	Equip Fail Underground	underground primary fault on 750 cable between Hwy 281 & Buffalo Mall. JCH audited 7/28/22
	Feeder	RBY	465	2022-08-03T10:55:13	2022-08-03T10:55:19	0:00:06	Jamestown	Heilman_Rod	Unknown	Investigated, but no cause found.
	Feeder	RBY	424	2022-01-13T11:46:08	2022-01-13T12:47:05	1:00:57	Jamestown	Heilman_Rod	Unknown	Unknown distribution fault caused Peaking Plant breaker 815 to operate causing Jamestown SE Jct motor-operated switch 781 to open which caused transmission issues between Jamestown and Edgeley load pockets. Cause unknown upon investigation.
	Feeder	RBY	747	2022-06-09T15:45:21	2022-06-09T18:07:30	2:22:09	Jamestown	Heilman_Rod	Equip Fail Underground	underground primary fault on 750 cable between Hwy 281 & Buffalo Mall. JCH audited 7/28/22
	Substation	RY	55	2022-01-13T11:46:10	2022-01-13T11:55:12	0:09:02	Jamestown	Powers_Steve	Unknown	Unknown distribution fault caused Peaking Plant breaker 815 to operate causing Jamestown SE Jct motor-operated switch 781 to open which caused transmission issues between Jamestown and Edgeley load pockets. Cause unknown upon investigation.
	Substation	RY	55	2022-01-13T13:49:10	2022-01-13T13:50:36	0:01:26	Jamestown	Powers_Steve	Unknown	Unknown distribution fault caused Peaking Plant breaker 815 to operate causing Jamestown SE Jct motor-operated switch 781 to open which caused transmission issues between Jamestown and Edgeley load pockets. Cause unknown upon investigation.
	Substation	RY	55	2022-01-13T15:15:20	2022-01-13T15:18:23	0:03:03	Jamestown	Powers_Steve	Unknown	Unknown distribution fault caused Peaking Plant breaker 815 to operate causing Jamestown SE Jct motor-operated switch 781 to open which caused transmission issues between Jamestown and Edgeley load pockets. Cause unknown upon investigation.
	Substation	RY	55	2022-02-04T07:12:29	2022-02-04T08:37:08	1:24:39	Jamestown	Powers_Steve	Equip Fail Conductor	Broken transmission phase 4 miles east of Gackle at Henne Slough.
	Substation	RY	54	2022-03-24T07:06:30	2022-03-24T07:06:41	0:00:11	Jamestown	Powers_Steve	Unknown	Unknown and not investigated.
	Substation	RY	80	2022-04-13T04:47:35	2022-04-13T04:48:27	0:00:52	Jamestown	Powers_Steve	Unknown	Investigated, cause unknown. SEL 6 miles west of Gackle Jct 865.
	Substation	RY	54	2022-04-22T22:52:52	2022-04-22T22:53:15	0:00:23	Jamestown	Powers_Steve	Weather	Storms in the area.
	Substation	RY	55	2022-04-23T00:10:34	2022-04-23T00:10:41	0:00:07	Jamestown	Powers_Steve	Weather	Storms in the area.
	Substation	RY	54	2022-04-23T00:11:19	2022-04-23T00:11:30	0:00:11	Jamestown	Powers_Steve	Weather	Storms in the area.
	Substation	RY	55	2022-04-23T04:12:13	2022-04-23T04:12:21	0:00:08	Jamestown	Powers_Steve	Weather	Storms in the area.
	Substation	RY	54	2022-05-13T12:18:36	2022-05-13T12:18:44	0:00:08	Jamestown	Powers_Steve	Equip Fail Insulator	Failed insulator caused pole to burn and break off at the crossarm bolt 3 poles south of Dakota Valley Millarton switch 753.
	Substation	RY	55	2022-05-13T14:48:42	2022-05-13T14:51:14	0:02:32	Jamestown	Powers_Steve	Equip Fail Pole	3 poles fell over in the slough 1 mile south of I-94 and Hwy 30 due to strong winds and wet conditions.
	Substation	RY	55	2022-06-14T05:43:49	2022-06-14T05:43:58	0:00:09	Jamestown	Powers_Steve	Weather	Storm in the area.
	Substation	RY	54	2022-06-20T16:38:05	2022-06-20T16:44:11	0:06:06	Jamestown	Powers_Steve	Unknown	Investigated and cause not known. SEL 35.12 from Jamestown and 12.6 from Edgeley.
	Substation	R	35	2022-06-29T23:29:21	2022-06-29T23:32:07	0:02:46	Jamestown	Powers_Steve	Vegetation	Storm in the area caused trees, approximately 10 miles north of Edgeley, to contact transmission line which opened the breaker.
	Substation	RY	55	2022-07-07T06:21:40	2022-07-07T06:22:48	0:01:08	Jamestown	Powers_Steve	Weather	Storms in the area.
	Substation	RY	55	2022-08-14T14:09:13	2022-08-14T14:09:21	0:00:08	Jamestown	Powers_Steve	Unknown	Unknown and not investigated.
	Substation	RY	55	2022-08-28T06:37:21	2022-08-28T06:37:30	0:00:09	Jamestown	Powers_Steve	Weather	Lightning storm in the area. Line patrolled per SEL data, but nothing found.
	Substation	RY	55	2022-08-28T07:15:44	2022-08-28T07:15:52	0:00:08	Jamestown	Powers_Steve	Weather	Lightning storm in the area. Line patrolled per SEL data, but nothing found.
	Substation	RY	55	2022-11-06T11:47:11	2022-11-06T11:53:56	0:06:45	Jamestown	Powers_Steve	Equip Fail Insulator	Broken center phase insulator between Jamestown Radio Station sub and Millarton-Montpelier Sub.
	Substation	RY	55	2022-11-09T15:43:21	2022-11-09T15:43:30	0:00:09	Jamestown	Powers_Steve	Weather	Freezing rain and windy conditions.
	Substation	RY	55	2022-11-09T20:56:36	2022-11-09T20:58:11	0:01:35	Jamestown	Powers_Steve	Weather	Freezing rain and windy conditions.
	Substation	Y	30	2022-11-09T20:59:02	2022-11-09T21:03:12	0:04:10	Jamestown	Powers_Steve	Weather	Freezing rain and windy conditions.
	Substation	Y	30	2022-11-09T21:03:50	2022-11-09T21:05:20	0:01:30	Jamestown	Powers_Steve	Weather	Freezing rain and windy conditions.
	Substation	Y	30	2022-11-09T21:07:35	2022-11-09T21:08:28	0:00:53	Jamestown	Powers_Steve	Weather	Freezing rain and windy conditions.

Equipment ID	Equipment Type	Phase(s)	Customers	Outage Start	Outage End	Duration	Customer Service Center	Region	Cause	Notes
	Substation	Y	30	2022-11-09T21:19:24	2022-11-09T21:20:18	0:00:54	Jamestown	Powers_Steve	Weather	Freezing rain and windy conditions.
	Substation	Y	30	2022-11-09T21:23:44	2022-11-09T21:25:52	0:02:08	Jamestown	Powers_Steve	Weather	Freezing rain and windy conditions.
	Substation	Y	30	2022-11-09T21:26:23	2022-11-09T21:27:18	0:00:55	Jamestown	Powers_Steve	Weather	Freezing rain and windy conditions.
	Substation	Y	30	2022-11-09T21:28:28	2022-11-09T21:29:22	0:00:54	Jamestown	Powers_Steve	Weather	Freezing rain and windy conditions.
	Substation	Y	30	2022-11-09T21:29:53	2022-11-09T21:30:44	0:00:51	Jamestown	Powers_Steve	Weather	Freezing rain and windy conditions.
	Substation	RY	55	2022-11-09T21:34:10	2022-11-09T23:07:08	1:32:58	Jamestown	Powers_Steve	Weather	Freezing rain and windy conditions.
	Substation	RY	55	2022-11-10T03:47:33	2022-11-10T04:33:22	0:45:49	Jamestown	Powers_Steve	Weather	Freezing rain and windy conditions.
	Substation	RY	55	2022-12-23T13:28:50	2022-12-23T14:27:39	0:58:49	Jamestown	Powers_Steve	Equip Fail Conductor	Broken phase with 2 broken crossarms north of Jud.
	Substation	RBY	122	2022-07-02T22:22:00	2022-07-02T22:22:06	0:00:06	Rugby	Dillow_James	Unknown	SRep could not find a reason for short blink
	Substation	RBY	122	2022-07-16T03:39:21	2022-07-16T03:39:30	0:00:09	Rugby	Dillow_James	Unknown	SRep could not find an exact reason for the blink.
	Substation	RBY	122	2022-08-01T08:15:55	2022-08-01T08:16:01	0:00:06	Rugby	Dillow_James	Unknown	Unknown
	Substation	RBY	122	2022-08-14T03:45:40	2022-08-14T03:45:44	0:00:04	Rugby	Dillow_James	Unknown	unknown
	Substation	RBY	122	2022-08-15T08:48:10	2022-08-15T08:48:17	0:00:07	Rugby	Dillow_James	Weather	Storm cell moved through the area.
	Substation	RBY	122	2022-08-18T00:52:15	2022-08-18T03:15:07	2:22:52	Rugby	Dillow_James	Weather	Severe storm broke conductor and 4 insulators
	Substation	RBY	122	2022-08-18T20:13:13	2022-08-18T20:13:19	0:00:06	Rugby	Dillow_James	Weather	Severe storm moved through
	Substation	RBY	122	2022-10-24T02:55:30	2022-10-24T02:55:37	0:00:07	Rugby	Dillow_James	Weather	Storm system moved through the area
	Substation	RBY	122	2022-12-21T15:47:43	2022-12-21T16:06:00	0:18:17	Rugby	Dillow_James	Equip Fail Insulator	Floater
	Substation	RBY	166	2022-01-01T23:13:05	2022-01-01T23:17:35	0:04:30	Jamestown	Bruner_Brent	Equip Fail Conductor	Broken phase between Courtney to Courtney Jct 293.
	Substation	RBY	166	2022-02-01T00:02:17	2022-02-01T00:02:20	0:00:03	Jamestown	Bruner_Brent	Equip Fail Insulator	Broken insulator between Jamestown 345 kv sub and Hwy 20 and a broken tie between Courtenay Jct and Courtenay.
	Substation	RBY	166	2022-02-01T00:04:28	2022-02-01T00:04:55	0:00:27	Jamestown	Bruner_Brent	Equip Fail Insulator	Broken insulator between Jamestown 345 kv sub and Hwy 20 and a broken tie between Courtenay Jct and Courtenay.
	Substation	RBY	166	2022-02-01T00:05:44	2022-02-01T00:07:56	0:02:12	Jamestown	Bruner_Brent	Equip Fail Insulator	Broken insulator between Jamestown 345 kv sub and Hwy 20 and a broken tie between Courtenay Jct and Courtenay.
	Substation	RBY	166	2022-02-01T04:19:18	2022-02-01T04:20:21	0:01:03	Jamestown	Bruner_Brent	Equip Fail Insulator	Broken insulator between Jamestown 345 kv sub and Hwy 20 and a broken tie between Courtenay Jct and Courtenay.
	Substation	RBY	166	2022-02-01T04:20:59	2022-02-01T04:28:30	0:07:31	Jamestown	Bruner_Brent	Equip Fail Insulator	Broken insulator between Jamestown 345 kv sub and Hwy 20 and a broken tie between Courtenay Jct and Courtenay.
	Substation	RBY	166	2022-02-01T07:15:29	2022-02-01T07:16:33	0:01:04	Jamestown	Bruner_Brent	Equip Fail Conductor	Broken copper conductor north of Kensal. Replaced 3 xarms, 6 insulators and spliced conductor.
	Substation	RBY	166	2022-04-20T20:41:05	2022-04-20T20:41:13	0:00:08	Jamestown	Bruner_Brent	Unknown	SEL 2 miles north of Kensal. Unknown and not investigated at this time.
	Substation	RBY	166	2022-05-04T13:42:37	2022-05-04T13:49:14	0:06:37	Jamestown	Bruner_Brent	Equip Fail Insulator	41.6 kv horizontal insulator failed in the Kensal area.
	Substation	RBY	166	2022-06-15T18:47:52	2022-06-15T18:54:28	0:06:36	Jamestown	Bruner_Brent	other	Bitcoin had construction insulation blow into the bus on their side of the line.
	Substation	RBY	166	2022-06-19T22:21:36	2022-06-19T22:21:45	0:00:09	Jamestown	Bruner_Brent	Vegetation	Trees on the line due to storm in the area.
	Substation	RBY	166	2022-06-24T18:52:50	2022-06-24T18:53:00	0:00:10	Jamestown	Bruner_Brent	Weather	Storm in the area.
	Substation	RBY	166	2022-07-05T23:57:55	2022-07-05T23:58:05	0:00:10	Jamestown	Bruner_Brent	Animal	Raccoon got into the Courtenay sub and blew all 3 high side fuses.
	Substation	RBY	166	2022-08-28T06:35:08	2022-08-28T06:35:13	0:00:05	Jamestown	Bruner_Brent	Weather	Lightning storm in the area. Line patrolled per SEL data, but nothing found.
	Substation	RBY	166	2022-10-07T04:55:38	2022-10-07T04:55:41	0:00:03	Jamestown	Bruner_Brent	Unknown	Investigated but cause unknown.
	Substation	BRY	453	2022-04-20T10:39:20	2022-04-20T10:39:35	0:00:15	Wahpeton	Ogren_Dwight	Vehicle Accident	Truck with box up hooked cable TV anmd shook line hard enough for a phase to phase contact.
	Substation	BRY	453	2022-04-23T02:35:32	2022-04-23T02:35:54	0:00:22	Wahpeton	Ogren_Dwight	Weather	Storms with high winds in the whole area.
	Substation	BRY	454	2022-04-29T14:41:52	2022-04-29T14:43:46	0:01:54	Wahpeton	Ogren_Dwight	Unknown	phase to phase contact on 115 near Casselton
	Substation	BRY	454	2022-05-31T02:53:41	2022-05-31T02:54:42	0:01:01	Wahpeton	Ogren_Dwight	Unknown	Momentary on transmission line caused aoutage from Wahpeton all the way to open
	Substation	BRY	454	2022-06-26T14:47:08	2022-06-26T14:47:31	0:00:23	Wahpeton	Ogren_Dwight	Weather	Strong storms with wind and rain in the area
	Substation	BRY	453	2022-08-23T18:39:23	2022-08-23T19:40:14	1:00:51	Wahpeton	Ogren_Dwight	Equip Fail Insulator	Top insulator burnt off and caused the outage
	Substation	BY	276	2022-08-26T15:02:57	2022-08-26T15:03:08	0:00:11	Wahpeton	Ogren_Dwight	Equip Fail Underground	UG fault in Kindred made the breaker trip.
	Substation	BY	276	2022-08-26T15:27:22	2022-08-26T15:27:33	0:00:11	Wahpeton	Ogren_Dwight	Equip Fail Underground	UG fault in Kindred made the breaker trip.
	Substation	BY	276	2022-08-29T18:32:12	2022-08-29T18:32:25	0:00:13	Wahpeton	Ogren_Dwight	Equip Fail Underground	2nd UG fault on this line section in 3 days.
	Substation	BRY	453	2022-11-09T18:30:56	2022-11-09T19:01:42	0:30:46	Wahpeton	Ogren_Dwight	Weather	Ice on lines caused multiple outages
	Substation	BRY	884	2022-11-09T19:14:58	2022-11-09T19:29:56	0:14:58	Wahpeton	Ogren_Dwight	Weather	Ice on lines caused multiple outages
	Substation	BRY	453	2022-11-09T19:30:34	2022-11-09T20:49:25	1:18:51	Wahpeton	Ogren_Dwight	Weather	Ice on lines caused multiple outages.
	Substation	BYR	454	2022-12-13T04:54:20	2022-12-13T05:56:17	1:01:57	Wahpeton	Ogren_Dwight	Equip Fail Insulator	Broken insulator on 41.6 near Davenport
	Substation	BRY	454	2022-12-14T10:39:33	2022-12-14T10:39:47	0:00:14	Wahpeton	Ogren_Dwight	Weather	Ice and snow on lines caused numerous outages.
	Substation	RBY	31	2022-03-14T22:56:44	2022-03-14T22:56:51	0:00:07	Devils_Lake	Foss_Jerry	Unknown	Unknown
	Substation	RBY	31	2022-04-23T05:56:22	2022-04-23T05:56:29	0:00:07	Devils_Lake	Foss_Jerry	Weather	Significant thunder storm/ice storm/extremely high wind event - lines slapping together, trees, icing galloping lines, broken ties, broken insulators, broken poles.

Equipment ID	Equipment Type	Phase(s)	Customers	Outage Start	Outage End	Duration	Customer Service Center	Region	Cause	Notes
	Substation	RBY	31	2022-06-15T06:33:08	2022-06-15T06:33:21	0:00:13	Devils_Lake	Foss_Jerry	Equip Fail Pole	Broken pole due to storm moving through the area.
	Substation	RBY	31	2022-06-24T18:12:32	2022-06-24T18:12:35	0:00:03	Devils_Lake	Foss_Jerry	Lightning	Storm through the area. 4 poles took shots of lightning. 3 by McVille and one by Fort Totten
	Substation	RBY	31	2022-07-15T15:16:54	2022-07-15T15:17:00	0:00:06	Devils_Lake	Foss_Jerry	Unknown	Unknown
	Substation	RBY	31	2022-07-23T00:05:44	2022-07-23T00:05:50	0:00:06	Devils_Lake	Foss_Jerry	Weather	Storm moving through - high winds and lightning
	Substation	RBY	31	2022-11-03T08:03:57	2022-11-03T17:42:22	9:38:25	Devils_Lake	Foss_Jerry	Itron meter failure	RDI 1/1/23
	Substation	RBY	31	2022-11-30T12:59:04	2022-11-30T16:16:35	3:17:31	Devils_Lake	Foss_Jerry	Planned	Planned outage. cutover to new transmission line.
	Substation	BRY	86	2022-07-26T02:03:12	2022-07-26T02:03:39	0:00:27	Rugby	Peterson_Paul	Weather	Storm cell moved through the area
	Feeder	BYR	43	2022-07-22T22:08:24	2022-07-23T13:26:22	15:17:58	Rugby	Peterson_Paul	Weather	Storm moving through - high winds and lightning. JCH Audited 7/28/22
	Feeder	B	20	2022-10-26T16:19:16	2022-10-26T16:19:22	0:00:06	Rugby	Peterson_Paul	Unknown	Unknown
	Substation	BRY	178	2022-05-12T20:12:36	2022-05-12T20:12:58	0:00:22	Rugby	Derr_John	Weather	Stormy weather rolled through the area.
	Feeder	RBY	35	2022-08-30T18:39:07	2022-08-30T19:22:08	0:43:01	Rugby	Derr_John	Equip Fail Fuse unknown cause	Fuse
	Feeder	B	68	2022-01-25T08:28:53	2022-01-25T09:34:38	1:05:45	Rugby	Derr_John	Planned	SRep planned outage to change out a pole
	Feeder	RY	80	2022-09-01T10:57:48	2022-09-01T10:57:58	0:00:10	Rugby	Derr_John	Unknown	Unknown
	Substation	RBY	206	2022-03-16T09:00:07	2022-03-16T09:12:53	0:12:46	Devils_Lake	Eriksson_Lehmann_Gardner	Planned	Repaired a heating connection in sub.
	Substation	RBY	206	2022-05-25T13:00:26	2022-05-25T18:49:34	5:49:08	Devils_Lake	Eriksson_Lehmann_Gardner	Planned	Cutover to new WAPA substation. Audited 6/2/22 JCH
	Substation	RBY	522	2022-04-01T22:10:31	2022-04-01T22:57:05	0:46:34	Jamestown	Baker_Grant	Equip Fail Insulator	Insulator tracked and caused pole to burn off at the crossarm through bolt.
	Substation	RBY	522	2022-04-17T23:41:26	2022-04-17T23:41:45	0:00:19	Jamestown	Baker_Grant	Unknown	Unknown and not patrolled.
	Substation	RBY	522	2022-04-18T00:21:03	2022-04-18T00:21:18	0:00:15	Jamestown	Baker_Grant	Unknown	Unknown and not patrolled.
	Substation	RBY	522	2022-04-22T22:18:41	2022-04-22T22:18:55	0:00:14	Jamestown	Baker_Grant	Weather	Storms in the area.
	Substation	RBY	522	2022-04-22T22:42:32	2022-04-22T22:42:46	0:00:14	Jamestown	Baker_Grant	Weather	Storms in the area.
	Substation	RBY	522	2022-05-12T18:56:48	2022-05-12T18:57:04	0:00:16	Jamestown	Baker_Grant	Weather	Storms in the area.
	Substation	RBY	522	2022-06-14T05:16:56	2022-06-14T05:17:16	0:00:20	Jamestown	Baker_Grant	Weather	Storm in the area.
	Substation	RBY	522	2022-06-14T05:38:00	2022-06-14T05:38:50	0:00:50	Jamestown	Baker_Grant	Weather	Storm in the area.
	Substation	RBY	522	2022-06-24T21:15:22	2022-06-24T21:15:43	0:00:21	Jamestown	Baker_Grant	Weather	Storm in the area.
	Substation	RBY	522	2022-06-24T21:50:27	2022-06-24T21:50:47	0:00:20	Jamestown	Baker_Grant	Weather	Storm in the area.
	Substation	RBY	522	2022-06-29T23:31:58	2022-06-29T23:32:20	0:00:22	Jamestown	Baker_Grant	Vegetation	Tree blew over in the storm and caused downed conductor near 501 2nd Ave, Berlin.
	Substation	RBY	522	2022-11-06T11:36:59	2022-11-06T11:37:13	0:00:14	Jamestown	Baker_Grant	Weather	Strong winds with flying debris.
	Substation	RBY	522	2022-11-09T18:49:10	2022-11-09T20:48:36	1:59:26	Jamestown	Baker_Grant	Weather	Gallopings lines caused by freezing rain and windy conditions. JCH Audited 11/29/22
	Feeder	RBY	431	2022-11-09T06:44:33	2022-11-09T06:44:40	0:00:07	Jamestown	Baker_Grant	Weather	Gallopings lines caused by freezing rain and windy conditions.
	Substation	BR	24	2022-04-24T00:27:03	2022-04-24T01:41:44	1:14:41	Rugby	Schell_Peary	Weather	Severe Weather including High winds, Freezing rain, Snow and rain caused Broken poles, switches, Xarms, wire and insulators leading to multiple power outages throughout the area.
	Substation	BR	24	2022-05-09T09:10:32	2022-05-09T09:11:00	0:00:28	Rugby	Schell_Peary	Weather	Stormy weather rolled through the area with lightning and heavy winds.
	Substation	R	13	2022-06-01T03:00:19	2022-06-01T05:10:39	2:10:20	Rugby	Schell_Peary	other	Wire broke between 2 poles during heavy winds. JCH Audited 7/28/22
	Substation	BR	24	2022-07-06T09:29:43	2022-07-06T09:30:50	0:01:07	Rugby	Schell_Peary	Equip Fail Cutout	Highside cutout failed and needed to be fixed
	Substation	BR	24	2022-07-21T21:27:04	2022-07-21T21:27:45	0:00:41	Rugby	Schell_Peary	Unknown	Unknown
	Substation	BR	24	2022-07-22T20:59:13	2022-07-22T20:59:31	0:00:18	Rugby	Schell_Peary	Weather	Storm moving through - high winds and lightning
	Substation	BR	24	2022-07-22T21:13:17	2022-07-22T21:13:38	0:00:21	Rugby	Schell_Peary	Weather	Storm moving through - high winds and lightning
	Substation	B	13	2022-08-02T10:54:05	2022-08-02T12:32:09	1:38:04	Rugby	Schell_Peary	Equip Fail Fuse unknown cause	Unknown
	Substation	BR	24	2022-09-07T07:13:28	2022-09-07T07:28:13	0:14:45	Rugby	Schell_Peary	Equip Fail Conductor	Broken Jumper
	Substation	BR	24	2022-09-07T10:33:11	2022-09-07T10:33:36	0:00:25	Rugby	Schell_Peary	Equip Fail Conductor	Broken Jumper
	Substation	RBY	563	2022-07-09T21:20:57	2022-07-09T21:21:10	0:00:13	Devils_Lake	Hetletved_Kyle	Unknown	Unknown
	Substation	RBY	563	2022-07-15T20:18:15	2022-07-15T20:19:13	0:00:58	Devils_Lake	Hetletved_Kyle	Unknown	Unknown
	Substation	RBY	563	2022-07-19T15:55:20	2022-07-19T15:55:32	0:00:12	Devils_Lake	Hetletved_Kyle	Weather	Thunder storm and heavy rain moved through the area.
	Substation	RBY	563	2022-07-22T23:38:46	2022-07-23T00:45:49	1:07:03	Devils_Lake	Hetletved_Kyle	Lightning	Lightning struck Minnkota 115kv substation that feeds Langdon. Issues with breaker
	Substation	RBY	563	2022-12-12T10:00:25	2022-12-12T10:01:17	0:00:52	Devils_Lake	Hetletved_Kyle	Equip Fail Substation	Breaker failed in substation
	Feeder	RBY	264	2022-08-04T08:01:43	2022-08-04T09:07:52	1:06:09	Devils_Lake	Hetletved_Kyle	Itron meter voltage source failure	New service installed here. only one customer out.
	Substation	RBY	77	2022-07-09T21:21:16	2022-07-09T21:21:24	0:00:08	Devils_Lake	Hetletved_Kyle	Unknown	Unknown
	Substation	RBY	77	2022-07-15T20:18:19	2022-07-15T20:18:38	0:00:19	Devils_Lake	Hetletved_Kyle	Unknown	Unknown
	Substation	RBY	77	2022-07-19T15:55:40	2022-07-19T15:55:46	0:00:06	Devils_Lake	Hetletved_Kyle	Weather	Thunder storm and heavy rain moved through the area.
	Substation	RBY	77	2022-07-22T23:39:06	2022-07-23T00:46:03	1:06:57	Devils_Lake	Hetletved_Kyle	Lightning	Lightning struck Minnkota 115kv substation that feeds Langdon. Issues with breaker
	Substation	RBY	77	2022-11-25T10:08:12	2022-11-25T10:08:17	0:00:05	Devils_Lake	Hetletved_Kyle	Unknown	Unknown
	Substation	RBY	77	2022-12-12T10:00:39	2022-12-12T10:01:15	0:00:36	Devils_Lake	Hetletved_Kyle	Equip Fail Substation	Breaker failed in substation

Equipment ID	Equipment Type	Phase(s)	Customers	Outage Start	Outage End	Duration	Customer Service Center	Region	Cause	Notes
	Substation	BRY	662	2022-07-09T21:20:57	2022-07-09T21:22:06	0:01:09	Devils_Lake	Hetletved_Kyle	Unknown	Unknown
	Substation	BRY	667	2022-07-15T20:18:14	2022-07-15T20:18:37	0:00:23	Devils_Lake	Hetletved_Kyle	Unknown	Unknown
	Substation	BRY	662	2022-07-19T15:55:21	2022-07-19T15:56:24	0:01:03	Devils_Lake	Hetletved_Kyle	Weather	Thunder storm and heavy rain moved through the area. Lightning struck Minnkota 115kv substation that feeds Langdon. Issues with breaker
	Substation	RBY	662	2022-07-22T23:38:47	2022-07-23T00:46:03	1:07:16	Devils_Lake	Hetletved_Kyle	Lightning	Breaker failed in substation
	Substation	BRY	662	2022-12-12T10:00:20	2022-12-12T10:01:17	0:00:57	Devils_Lake	Hetletved_Kyle	Equipment Fail Substation	Underground primary cable fault
	Feeder	BRY	184	2022-02-24T16:03:48	2022-02-24T16:04:01	0:00:13	Devils_Lake	Hetletved_Kyle	Equipment Fail Conductor	Underground primary cable fault
	Feeder	BRY	184	2022-02-24T20:30:01	2022-02-24T20:30:16	0:00:15	Devils_Lake	Hetletved_Kyle	Equipment Fail Conductor	UG primary fault.
	Feeder	BRY	184	2022-03-21T15:11:04	2022-03-21T15:11:22	0:00:18	Devils_Lake	Hetletved_Kyle	Equipment Fail Conductor	UG primary fault.
	Feeder	R	113	2022-03-21T15:11:58	2022-03-21T15:12:01	0:00:03	Devils_Lake	Hetletved_Kyle	Equipment Fail Conductor	UG primary fault. JCH audited 3/24/22
	Feeder	RY	113	2022-03-21T15:34:37	2022-03-21T20:25:51	4:51:14	Devils_Lake	Hetletved_Kyle	Equipment Fail Conductor	Failed insulator on distribution. JCH Audited 2/28/22
	Feeder	RBY	5	2022-02-23T18:02:17	2022-02-23T18:34:17	0:32:00	Devils_Lake	Hetletved_Kyle	Equipment Fail Insulator	Failed insulator on distribution. JCH Audited 2/28/22
	Feeder	BRY	478	2022-02-23T18:01:52	2022-02-23T18:35:00	0:33:08	Devils_Lake	Hetletved_Kyle	Equipment Fail Insulator	Equipment Fail Fuse unknown cause
	Feeder	BRY	478	2022-04-02T12:24:25	2022-04-02T14:43:46	2:19:21	Devils_Lake	Hetletved_Kyle	Weather	Fuse pulled apart. Not blown Severe Weather including High winds, Freezing rain, Snow and rain caused Broken poles, switches, Xarms, wire and insulators leading to multiple power outages throughout the area.
	Substation	R	86	2022-04-23T20:03:29	2022-04-23T20:03:35	0:00:06	Rugby	Bartholomay_Seth	Weather	Stormy weather rolled through the area.
	Substation	R	85	2022-05-12T07:07:44	2022-05-12T07:07:52	0:00:08	Rugby	Bartholomay_Seth	Weather	Top of an evergreen broke off and ripped line down and caused phase to ground short due to high winds.
	Substation	BY	133	2022-05-12T07:07:56	2022-05-12T07:08:11	0:00:15	Rugby	Bartholomay_Seth	Weather	Top of an evergreen broke off and ripped line down and caused phase to ground short due to high winds.
	Substation	BRY	217	2022-07-19T02:29:06	2022-07-19T02:29:26	0:00:20	Rugby	Bartholomay_Seth	Vegetation	Storm moving through - high winds and lightning
	Substation	BRY	216	2022-07-19T02:31:24	2022-07-19T02:31:43	0:00:19	Rugby	Bartholomay_Seth	Vegetation	Storm moving through - high winds and lightning
	Substation	R	86	2022-07-22T20:46:15	2022-07-22T20:46:20	0:00:05	Rugby	Bartholomay_Seth	Weather	Storm moving through - high winds and lightning. JCH Audited 7/28/22
	Substation	BRY	216	2022-07-22T20:46:53	2022-07-22T23:02:29	2:15:36	Rugby	Bartholomay_Seth	Weather	Storm moving through - high winds and lightning
	Substation	BRY	217	2022-07-23T02:21:14	2022-07-23T02:21:32	0:00:18	Rugby	Bartholomay_Seth	Weather	Unknown
	Substation	R	86	2022-07-30T12:44:21	2022-07-30T12:44:26	0:00:05	Rugby	Bartholomay_Seth	Unknown	Failed insulator
	Substation	BRY	216	2022-09-24T04:17:50	2022-09-24T05:49:57	1:32:07	Rugby	Bartholomay_Seth	Equipment Fail Insulator	Unknown
	Substation	BRY	217	2022-10-05T11:19:00	2022-10-05T12:57:31	1:38:31	Rugby	Bartholomay_Seth	Unknown	Broken conductor on 41.6kv line. Abnormal switching caused to much load causing breaker to operate several times.
	Substation	BRY	51	2022-02-02T08:53:16	2022-02-02T08:53:32	0:00:16	Devils_Lake	Ramberg_Jason	Equipment Fail Conductor	Broken conductor on 41.6kv line.
	Substation	BRY	51	2022-02-02T09:30:09	2022-02-02T09:30:25	0:00:16	Devils_Lake	Ramberg_Jason	Equipment Fail Conductor	
	Substation	R	23	2022-04-27T17:23:01	2022-04-27T17:23:06	0:00:05	Devils_Lake	Ramberg_Jason	Weather	Tree blew into line from storm.
	Substation	BY	28	2022-04-27T17:23:06	2022-04-27T17:23:15	0:00:09	Devils_Lake	Ramberg_Jason	Weather	Working on Hwy crossing changing poles.
	Substation	BRY	50	2022-05-08T17:45:31	2022-05-08T18:32:27	0:46:56	Devils_Lake	Ramberg_Jason	Vegetation	Severe weather moved through the area. Wind and Lightning. due to high winds/storm trees broke 41.6kv conductor. JCH Audited 7/28/22
	Substation	BRY	51	2022-05-26T09:26:51	2022-05-26T09:40:26	0:13:35	Devils_Lake	Ramberg_Jason	Planned	Storm cell moved through
	Substation	BRY	51	2022-06-24T14:17:52	2022-06-24T14:18:15	0:00:23	Devils_Lake	Ramberg_Jason	Weather	Cutover of ug feeder to the town.
	Substation	BRY	51	2022-07-22T23:36:45	2022-07-23T01:58:01	2:21:16	Devils_Lake	Ramberg_Jason	Vegetation	Storm moved through area.
	Substation	BRY	51	2022-07-26T02:11:35	2022-07-26T02:11:58	0:00:23	Devils_Lake	Ramberg_Jason	Weather	Uknown
	Substation	BRY	51	2022-08-02T08:59:49	2022-08-02T09:32:02	0:32:13	Devils_Lake	Ramberg_Jason	Planned	SRep could not find any reason for blink
	Substation	BRY	51	2022-08-15T10:43:20	2022-08-15T10:44:33	0:01:13	Devils_Lake	Ramberg_Jason	Weather	Storm moving through - high winds and lightning
	Substation	BRY	50	2022-08-29T10:06:59	2022-08-29T10:07:24	0:00:25	Devils_Lake	Ramberg_Jason	Unknown	Storm cell moved through thearea
	Substation	RBY	314	2022-01-23T22:40:45	2022-01-23T22:41:03	0:00:18	Rugby	Peterson_Paul	Unknown	
	Substation	RBY	314	2022-07-22T22:33:45	2022-07-22T22:34:46	0:01:01	Rugby	Peterson_Paul	Weather	
	Substation	RBY	314	2022-07-26T02:03:14	2022-07-26T02:04:17	0:01:03	Rugby	Peterson_Paul	Weather	
	Substation	RBY	457	2022-04-05T00:36:18	2022-04-05T00:36:30	0:00:12	Wahpeton	Hovel_Loren	Equipment Fail Insulator	Had insulator fail and burn off a pole between Geneseo and Veblen
	Substation	RBY	457	2022-04-05T03:58:02	2022-04-05T03:58:17	0:00:15	Wahpeton	Hovel_Loren	Equipment Fail Insulator	Had insulator fail and burn off a pole between Geneseo and Veblen
	Substation	RBY	457	2022-04-23T01:03:07	2022-04-23T01:03:23	0:00:16	Wahpeton	Hovel_Loren	Equipment Fail Insulator	Broken insulator caused blinks and the the breaker opened which caused the longer outage.
	Substation	RBY	457	2022-04-23T14:02:35	2022-04-23T14:48:04	0:45:29	Wahpeton	Hovel_Loren	Equipment Fail Insulator	Broken insulator caused blinks and the the breaker opened which caused the longer outage.
	Substation	RBY	457	2022-06-20T22:36:54	2022-06-20T22:37:16	0:00:22	Wahpeton	Hovel_Loren	Weather	Strong storms with high winds and lightning went through the area.
	Substation	RBY	457	2022-11-06T08:53:22	2022-11-06T09:35:29	0:42:07	Wahpeton	Hovel_Loren	Equipment Fail Insulator	Broken 41.6 insulator from crosswind.
	Feeder	RBY	199	2022-07-19T00:59:44	2022-07-19T00:59:51	0:00:07	Wahpeton	Hovel_Loren	Weather	Storms with lightning in the area
	Feeder	RBY	199	2022-07-19T02:07:12	2022-07-19T02:12:19	0:05:07	Wahpeton	Hovel_Loren	Weather	Storms with lightning in the area
	Feeder	RBY	199	2022-07-19T07:57:05	2022-07-19T08:31:00	0:33:55	Wahpeton	Hovel_Loren	Weather	Storms with lightning in the area
	Feeder	RBY	363	2022-04-22T23:49:43	2022-04-22T23:49:57	0:00:14	Wahpeton	Thompson_Wade	Weather	High winds and storms in the area.
	Feeder	RBY	363	2022-04-23T01:43:10	2022-04-23T01:43:16	0:00:06	Wahpeton	Thompson_Wade	Weather	High winds and storms in the area.
	Feeder	RBY	363	2022-04-23T02:10:42	2022-04-23T02:10:57	0:00:15	Wahpeton	Thompson_Wade	Weather	High winds and storms in the area.

Equipment ID	Equipment Type	Phase(s)	Customers	Outage Start	Outage End	Duration	Customer Service Center	Region	Cause	Notes
	Feeder	RBY	363	2022-04-23T02:12:50	2022-04-23T02:13:01	0:00:11	Wahpeton	Thompson_Wade	Itron meter failure	High winds and storms in the area. We did not have an extended outage in the area.
	Feeder	RBY	363	2022-07-08T13:45:25	2022-07-08T13:45:29	0:00:04	Wahpeton	Thompson_Wade	Unknown	Nothing found during patrol.
	Feeder	RBY	363	2022-09-01T05:22:06	2022-09-01T05:22:13	0:00:07	Wahpeton	Thompson_Wade	Animal	Squirrels on both of these.
	Feeder	RBY	363	2022-09-09T10:07:16	2022-09-09T10:07:22	0:00:06	Wahpeton	Thompson_Wade		
	Feeder	RBY	363	2022-11-15T18:52:35	2022-11-15T19:33:48	0:41:13	Wahpeton	Thompson_Wade	Weather	Ice on tap caused substation to see load and it finally took the whole sub down causing several outages.
	Feeder	RBY	363	2022-11-15T19:38:21	2022-11-15T20:23:02	0:44:41	Wahpeton	Thompson_Wade	Weather	Ice on tap caused substation to see load and it finally took the whole sub down causing several outages.
	Feeder	RBY	363	2022-11-15T20:49:21	2022-11-15T20:49:28	0:00:07	Wahpeton	Thompson_Wade		
	Feeder	RBY	363	2022-11-15T21:19:19	2022-11-15T21:19:34	0:00:15	Wahpeton	Thompson_Wade	Weather	Ice on tap caused substation to see load and it finally took the whole sub down causing several outages.
	Feeder	RBY	363	2022-12-13T16:44:17	2022-12-13T16:44:29	0:00:12	Wahpeton	Thompson_Wade	Weather	Heavy snow on insulators was causing tracking to the poles and breakers tripped and would not hold.
	Feeder	RBY	363	2022-12-13T17:59:50	2022-12-13T18:00:03	0:00:13	Wahpeton	Thompson_Wade	Weather	Heavy snow on insulators was causing tracking to the poles and breakers tripped and would not hold.
	Feeder	RBY	363	2022-12-13T18:49:40	2022-12-13T18:49:54	0:00:14	Wahpeton	Thompson_Wade	Weather	Heavy snow on insulators was causing tracking to the poles and breakers tripped and would not hold.
	Feeder	RBY	363	2022-12-13T19:26:20	2022-12-13T19:27:02	0:00:42	Wahpeton	Thompson_Wade	Weather	Heavy snow on insulators was causing tracking to the poles and breakers tripped and would not hold.
	Feeder	RBY	363	2022-12-13T19:44:58	2022-12-13T19:45:33	0:00:35	Wahpeton	Thompson_Wade	Weather	Heavy snow on insulators was causing tracking to the poles and breakers tripped and would not hold.
	Feeder	RBY	49	2022-04-22T23:49:58	2022-04-22T23:50:12	0:00:14	Wahpeton	Thompson_Wade	Weather	High winds and storms in the area.
	Feeder	RBY	49	2022-04-23T02:10:57	2022-04-23T02:11:11	0:00:14	Wahpeton	Thompson_Wade	Weather	High winds and storms in the area.
	Feeder	RBY	49	2022-11-06T11:25:49	2022-11-06T11:25:55	0:00:06	Wahpeton	Thompson_Wade	Equip Fail Arrester	Lightning arrester failed
	Feeder	RBY	49	2022-11-15T18:52:37	2022-11-15T19:36:34	0:43:57	Wahpeton	Thompson_Wade	Weather	Ice on tap caused substation to see load and it finally took the whole sub down causing several outages.
	Feeder	RBY	49	2022-11-15T19:38:27	2022-11-15T20:24:35	0:46:08	Wahpeton	Thompson_Wade	Weather	Ice on tap caused substation to see load and it finally took the whole sub down causing several outages.
	Feeder	RBY	49	2022-11-15T21:19:33	2022-11-15T21:19:47	0:00:14	Wahpeton	Thompson_Wade	Weather	Ice on tap caused substation to see load and it finally took the whole sub down causing several outages.
	Feeder	RBY	49	2022-12-13T16:44:30	2022-12-13T16:44:42	0:00:12	Wahpeton	Thompson_Wade	Weather	Heavy snow on insulators was causing tracking to the poles and breakers tripped and would not hold.
	Feeder	RBY	49	2022-12-13T18:00:03	2022-12-13T18:00:16	0:00:13	Wahpeton	Thompson_Wade	Weather	Heavy snow on insulators was causing tracking to the poles and breakers tripped and would not hold.
	Feeder	RBY	49	2022-12-13T18:49:53	2022-12-13T18:50:06	0:00:13	Wahpeton	Thompson_Wade	Weather	Heavy snow on insulators was causing tracking to the poles and breakers tripped and would not hold.
	Feeder	RBY	49	2022-12-13T19:26:32	2022-12-13T19:27:15	0:00:43	Wahpeton	Thompson_Wade	Weather	Heavy snow on insulators was causing tracking to the poles and breakers tripped and would not hold.
	Feeder	RBY	49	2022-12-13T19:45:10	2022-12-13T19:45:45	0:00:35	Wahpeton	Thompson_Wade	Weather	Heavy snow on insulators was causing tracking to the poles and breakers tripped and would not hold.
	Feeder	RBY	403	2022-04-22T23:49:39	2022-04-22T23:49:54	0:00:15	Wahpeton	Thompson_Wade	Weather	High winds and storms in the area.
	Feeder	RBY	403	2022-04-23T02:10:40	2022-04-23T02:10:54	0:00:14	Wahpeton	Thompson_Wade	Weather	High winds and storms in the area.
	Feeder	RBY	403	2022-04-23T02:12:47	2022-04-23T02:57:40	0:44:53	Wahpeton	Thompson_Wade	Itron meter failure	High winds and storms in the area. We did not have an extended outage in the area.
	Feeder	RBY	403	2022-06-07T19:04:32	2022-06-07T19:04:38	0:00:06	Wahpeton	Thompson_Wade	Animal	Squirrel on transformer
	Feeder	RBY	403	2022-08-17T04:12:09	2022-08-17T04:12:17	0:00:08	Wahpeton	Thompson_Wade	Equip Fail Underground	UG fault between 2 transformers so we pulled in new primary
	Feeder	RBY	403	2022-08-17T05:52:30	2022-08-17T05:52:38	0:00:08	Wahpeton	Thompson_Wade	Equip Fail Underground	UG fault between 2 transformers so we pulled in new primary
	Substation	BR	136	2022-04-23T18:01:21	2022-04-23T20:15:52	2:14:31	Rugby	Lee_James	Weather	Severe Weather including High winds, Freezing rain, Snow and rain caused Broken poles, switches, Xarms, wire and insulators leading to multiple power outages throughout the area. JCH audited 4/30/22
	Substation	BR	94	2022-04-23T22:29:10	2022-04-24T01:02:55	2:33:45	Rugby	Lee_James	Weather	Severe Weather including High winds, Freezing rain, Snow and rain caused Broken poles, switches, Xarms, wire and insulators leading to multiple power outages throughout the area. JCH audited 4/30/22
	Substation	BR	94	2022-04-24T08:46:54	2022-04-24T08:47:18	0:00:24	Rugby	Lee_James	Weather	Severe Weather including High winds, Freezing rain, Snow and rain caused Broken poles, switches, Xarms, wire and insulators leading to multiple power outages throughout the area.
	Substation	BR	94	2022-04-24T08:47:55	2022-04-24T11:22:32	2:34:37	Rugby	Lee_James	Weather	Severe Weather including High winds, Freezing rain, Snow and rain caused Broken poles, switches, Xarms, wire and insulators leading to multiple power outages throughout the area. JCH audited 4/30/22

Equipment ID	Equipment Type	Phase(s)	Customers	Outage Start	Outage End	Duration	Customer Service Center	Region	Cause	Notes
	Substation	BR	93	2022-04-24T12:00:29	2022-04-24T12:01:01	0:00:32	Rugby	Lee_James	Weather	Severe Weather including High winds, Freezing rain, Snow and rain caused Broken poles, switches, Xarms, wire and insulators leading to multiple power outages throughout the area.
	Substation	BR	92	2022-04-24T12:01:59	2022-04-24T12:02:14	0:00:15	Rugby	Lee_James	Weather	Severe Weather including High winds, Freezing rain, Snow and rain caused Broken poles, switches, Xarms, wire and insulators leading to multiple power outages throughout the area.
	Substation	R	52	2022-04-24T12:03:11	2022-04-24T12:03:45	0:00:34	Rugby	Lee_James	Weather	Severe Weather including High winds, Freezing rain, Snow and rain caused Broken poles, switches, Xarms, wire and insulators leading to multiple power outages throughout the area.
	Substation	R	52	2022-04-24T12:50:19	2022-04-24T14:06:24	1:16:05	Rugby	Lee_James	Weather	Severe Weather including High winds, Freezing rain, Snow and rain caused Broken poles, switches, Xarms, wire and insulators leading to multiple power outages throughout the area.
	Substation	BR	93	2022-04-24T14:50:04	2022-04-24T14:50:14	0:00:10	Rugby	Lee_James	Weather	Severe Weather including High winds, Freezing rain, Snow and rain caused Broken poles, switches, Xarms, wire and insulators leading to multiple power outages throughout the area.
	Substation	BR	92	2022-04-24T15:53:23	2022-04-24T15:53:34	0:00:11	Rugby	Lee_James	Weather	Severe Weather including High winds, Freezing rain, Snow and rain caused Broken poles, switches, Xarms, wire and insulators leading to multiple power outages throughout the area.
	Substation	BR	94	2022-04-24T17:47:20	2022-04-24T17:47:29	0:00:09	Rugby	Lee_James	Weather	Severe Weather including High winds, Freezing rain, Snow and rain caused Broken poles, switches, Xarms, wire and insulators leading to multiple power outages throughout the area.
	Substation	BR	93	2022-05-07T19:19:02	2022-05-07T19:24:41	0:05:39	Rugby	Lee_James	Weather	Ice storm caused insulator's, Crossarms and pole damage.
	Substation	BR	94	2022-06-24T17:05:31	2022-06-24T17:05:55	0:00:24	Rugby	Lee_James	Unknown	SRep could not find an exact reason for the blink.
	Substation	B	52	2022-06-24T17:45:30	2022-06-24T17:45:37	0:00:07	Rugby	Lee_James	Unknown	SRep could not find an exact reason for the blink.
	Substation	R	42	2022-06-24T17:45:46	2022-06-24T17:45:54	0:00:08	Rugby	Lee_James	Unknown	SRep could not find an exact reason for the blink.
	Substation	BR	94	2022-07-09T08:33:44	2022-07-09T10:44:13	2:10:29	Rugby	Lee_James	Weather	Storms were rolling through the area. rain, high winds, lightning. JCH Audited 7/28/22
	Substation	BR	94	2022-07-10T03:53:47	2022-07-10T03:53:59	0:00:12	Rugby	Lee_James	Weather	Storms rolled through the area causing damage throughout its path. rain, lightning, high winds
	Substation	BR	94	2022-08-24T13:43:33	2022-08-24T13:44:00	0:00:27	Rugby	Lee_James	Unknown	Line Patrol revealed no known cause but did see Hawks East of Max ND
	Substation	R	52	2022-11-24T23:21:14	2022-11-24T23:21:21	0:00:07	Rugby	Lee_James	Unknown	Unknown
	Substation	BY	11	2022-06-13T22:16:26	2022-06-13T22:16:35	0:00:09	Rugby	Voeller_Dave	Weather	Stormy weather with high winds traveled through the CSC causing blinks
	Substation	BY	11	2022-06-14T09:18:31	2022-06-14T09:44:23	0:25:52	Rugby	Voeller_Dave	Equip Fail Cutout	High side cutout failed
	Substation	BY	11	2022-12-29T07:09:44	2022-12-29T11:05:04	3:55:20	Rugby	Voeller_Dave	Equip Fail Underground	underground primary fault
	Substation	BR	7	2022-01-08T02:46:48	2022-01-08T02:47:24	0:00:36	Devils_Lake	Watkins_Shaun	Equip Fail Conductor	Yellow Phase cable faulted out of the warehouse sub which was seen on the transmission
	Substation	BR	7	2022-03-14T22:56:46	2022-03-14T22:56:57	0:00:11	Devils_Lake	Watkins_Shaun	Unknown	Unknown
	Substation	BR	7	2022-05-12T18:00:16	2022-05-12T18:00:36	0:00:20	Devils_Lake	Watkins_Shaun	Weather	Storm system moved through with high wind, heavy rains and lightning.
	Substation	BR	7	2022-05-25T15:02:31	2022-05-25T15:02:47	0:00:16	Devils_Lake	Watkins_Shaun	Unknown	Unknown
	Substation	BR	7	2022-06-24T16:52:52	2022-06-24T16:53:14	0:00:22	Devils_Lake	Watkins_Shaun	Weather	Severe storm moved through. Lightning struck 4 poles.
	Substation	BR	7	2022-08-18T03:22:12	2022-08-18T03:22:36	0:00:14	Devils_Lake	Watkins_Shaun	Weather	Severe storms moved through the area
	Substation	BR	7	2022-09-04T07:48:31	2022-09-04T07:48:47	0:00:16	Devils_Lake	Watkins_Shaun	Unknown	Unknown
	Substation	RBY	1	2022-01-08T02:46:44	2022-01-08T02:47:09	0:00:25	Devils_Lake	Devils_Lake	Equip Fail Conductor	Yellow Phase cable faulted out of the warehouse sub which was seen on the transmission
	Substation	RBY	1	2022-03-14T22:56:38	2022-03-14T22:56:42	0:00:04	Devils_Lake	Devils_Lake	Unknown	Unknown
	Substation	RBY	1	2022-05-12T18:00:20	2022-05-12T18:00:27	0:00:07	Devils_Lake	Devils_Lake	Weather	Storm system moved through with high wind, heavy rains and lightning.
	Substation	RBY	1	2022-05-25T15:02:31	2022-05-25T15:02:37	0:00:06	Devils_Lake	Devils_Lake	Unknown	Unknown
	Substation	RBY	1	2022-06-24T16:52:58	2022-06-24T16:53:05	0:00:07	Devils_Lake	Devils_Lake	Weather	Severe storm moved through. Lightning struck 4 poles
	Substation	RBY	1	2022-08-18T03:22:12	2022-08-18T03:22:19	0:00:07	Devils_Lake	Devils_Lake	Weather	Severe storms moved through the area
	Substation	RBY	1	2022-09-04T07:48:21	2022-09-04T07:48:30	0:00:09	Devils_Lake	Devils_Lake	Unknown	Unknown
	Feeder	RBY	22	2022-04-29T14:42:00	2022-04-29T14:42:19	0:00:19	Wahpeton	Ogren_Dwight	Unknown	phase to phase contact on 115 near Casselton
	Feeder	RBY	22	2022-06-24T20:59:07	2022-06-24T20:59:13	0:00:06	Wahpeton	Ogren_Dwight	Weather	Strong storms with high winds and lightning in the area.
	Feeder	RBY	22	2022-09-27T12:42:30	2022-09-27T12:42:37	0:00:07	Wahpeton	Ogren_Dwight	Planned	Cut over to new UG
	Feeder	RBY	22	2022-11-09T18:31:04	2022-11-09T18:31:26	0:00:22	Wahpeton	Ogren_Dwight	Weather	Ice on lines caused multiple outages.
	Feeder	RBY	22	2022-11-09T18:32:42	2022-11-09T19:01:10	0:28:28	Wahpeton	Ogren_Dwight	Weather	Ice on lines caused multiple outages.
	Substation	BRY	71	2022-06-13T21:53:14	2022-06-13T21:55:58	0:02:44	Rugby	Voeller_Dave	Weather	Stormy weather with high winds traveled through the CSC causing blinks
	Substation	BRY	72	2022-10-08T08:15:11	2022-10-08T08:15:29	0:00:18	Rugby	Voeller_Dave	Unknown	Unknown
	Substation	Y	23	2022-10-31T12:04:33	2022-10-31T12:14:26	0:09:53	Rugby	Voeller_Dave	Itron meter voltage source failure	Only one customer out. Work being done at Itron location.

Equipment ID	Equipment Type	Phase(s)	Customers	Outage Start	Outage End	Duration	Customer Service Center	Region	Cause	Notes
	Substation	BY	46	2022-12-15T10:34:54	2022-12-15T10:35:02	0:00:08	Rugby	Voeller_Dave	Weather	Icing conditions high winds/blizzard
	Substation	R	26	2022-12-15T10:35:04	2022-12-15T10:35:12	0:00:08	Rugby	Voeller_Dave	Weather	Icing conditions high winds/blizzard
	Substation	BY	47	2022-12-15T10:36:14	2022-12-15T10:36:22	0:00:08	Rugby	Voeller_Dave	Weather	Icing conditions high winds/blizzard
	Substation	R	25	2022-12-15T10:36:25	2022-12-15T10:36:32	0:00:07	Rugby	Voeller_Dave	Weather	Icing conditions high winds/blizzard
	Substation	BRY	72	2022-12-15T10:38:45	2022-12-15T11:28:12	0:49:27	Rugby	Voeller_Dave	Weather	Icing conditions high winds/blizzard
	Substation	RBY	203	2022-04-23T18:01:10	2022-04-23T18:01:31	0:00:21	Rugby	Klein_Travis	Weather	Ice storm caused insulators, cross arms, and poles to fail on 41.6k system
	Substation	RBY	203	2022-04-23T18:03:09	2022-04-23T18:03:13	0:00:04	Rugby	Klein_Travis	Weather	Ice storm caused insulators, cross arms, and poles to fail on 41.6k system
	Substation	RBY	203	2022-04-23T22:29:14	2022-04-24T01:02:55	2:33:41	Rugby	Klein_Travis	Weather	Ice storm caused insulators, cross arms, and poles to fail on 41.6k system
	Substation	RBY	203	2022-04-24T08:47:09	2022-04-24T08:47:18	0:00:09	Rugby	Klein_Travis	Weather	Ice storm caused insulators, cross arms, and poles to fail on 41.6k system
	Substation	RBY	203	2022-04-24T08:47:59	2022-04-24T08:47:59	0:00:00	Rugby	Klein_Travis	Weather	Ice storm caused insulators, cross arms, and poles to fail on 41.6k system
	Substation	RBY	203	2022-04-24T13:16:30	2022-04-24T13:18:39	0:02:09	Rugby	Klein_Travis	Weather	Ice storm caused insulators, cross arms, and poles to fail on 41.6k system
	Substation	RBY	203	2022-04-24T14:50:08	2022-04-24T14:50:13	0:00:05	Rugby	Klein_Travis	Weather	Ice storm caused insulators, cross arms, and poles to fail on 41.6k system
	Substation	RBY	203	2022-04-24T15:53:27	2022-04-24T15:53:32	0:00:05	Rugby	Klein_Travis	Weather	Ice storm caused insulators, cross arms, and poles to fail on 41.6k system
	Substation	RBY	203	2022-04-24T17:47:23	2022-04-24T17:47:27	0:00:04	Rugby	Klein_Travis	Weather	Ice storm caused insulators, cross arms, and poles to fail on 41.6k system
	Substation	RBY	203	2022-05-07T19:19:10	2022-05-07T20:33:28	1:14:18	Rugby	Klein_Travis	Weather	Ice storm caused insulators, cross arms, and poles to fail on 41.6k system
	Substation	RBY	203	2022-05-14T02:23:55	2022-05-14T02:24:06	0:00:11	Rugby	Klein_Travis	Unknown	SRep could not find an exact reason for the blink.
	Substation	RBY	203	2022-05-17T01:05:26	2022-05-17T01:05:31	0:00:05	Rugby	Klein_Travis	Unknown	SRep could not find an exact reason for the blink.
	Substation	RBY	203	2022-06-24T17:05:32	2022-06-24T17:05:36	0:00:04	Rugby	Klein_Travis	Unknown	SRep could not find an exact reason for the blink.
	Substation	RBY	203	2022-06-24T17:45:29	2022-06-24T17:45:35	0:00:06	Rugby	Klein_Travis	Unknown	SRep could not find an exact reason for the blink.
	Substation	RBY	203	2022-07-09T08:33:48	2022-07-09T08:56:48	0:23:00	Rugby	Klein_Travis	Weather	Storms were rolling through the area. rain, high winds, lightning.
	Substation	RBY	203	2022-07-10T03:53:53	2022-07-10T03:54:57	0:01:04	Rugby	Klein_Travis	Weather	Storms rolled through the area causing damage throughout its path.
	Substation	RBY	203	2022-08-02T08:15:12	2022-08-02T11:24:17	3:09:05	Rugby	Klein_Travis	Planned	rain, lightning, high winds
	Substation	RBY	203	2022-08-24T13:43:53	2022-08-24T13:43:59	0:00:06	Rugby	Klein_Travis	other	Cutover of new substation transmission feeder
	Substation	RBY	203	2022-09-01T09:00:32	2022-09-01T09:06:50	0:06:18	Rugby	Klein_Travis	Equip Fail Transformer	Unknown, But did see large hawks in the area
	Substation	RBY	203	2022-09-01T10:33:57	2022-09-01T10:34:05	0:00:08	Rugby	Klein_Travis	Equip Fail Transformer	Bad XFMR
	Substation	RBY	203	2022-09-10T07:00:26	2022-09-10T12:05:23	5:04:57	Rugby	Klein_Travis	Planned	Bad XFMR
	Substation	RBY	203	2022-09-10T12:11:49	2022-09-10T12:19:21	0:07:32	Rugby	Klein_Travis	Planned	Changing out transformer and town conversion
	Substation	BR	62	2022-05-12T07:07:54	2022-05-12T07:08:06	0:00:12	Rugby	Schell_Peary	Weather	Changing out transformer and town conversion
	Substation	BR	63	2022-07-19T02:29:17	2022-07-19T02:29:31	0:00:14	Rugby	Schell_Peary	Vegetation	Stormy weather rolled through the area.
	Substation	BR	62	2022-07-19T02:31:36	2022-07-19T02:31:50	0:00:14	Rugby	Schell_Peary	Weather	Top of an evergreen broke off and ripped line down and caused phase to ground short due to high winds.
	Substation	BR	63	2022-07-23T02:21:19	2022-07-23T02:21:39	0:00:20	Rugby	Schell_Peary	Weather	high winds around the area caused a few power bumps.
	Substation	BR	63	2022-09-24T04:17:49	2022-09-24T05:49:53	1:32:04	Rugby	Schell_Peary	Equip Fail Insulator	Storm moving through - high winds and lightning
	Substation	BR	63	2022-10-05T11:19:09	2022-10-05T12:03:32	0:44:23	Rugby	Schell_Peary	Unknown	Failed insulator
	Substation	BRY	26	2022-01-08T02:46:49	2022-01-08T02:47:27	0:00:38	Devils_Lake	Watkins_Shaun	Equip Fail Conductor	Unknown
	Substation	BRY	26	2022-01-11T15:13:11	2022-01-11T15:14:24	0:01:13	Devils_Lake	Watkins_Shaun	Unknown	Unknown
	Substation	BRY	26	2022-03-14T22:56:42	2022-03-14T22:57:01	0:00:19	Devils_Lake	Watkins_Shaun	Unknown	Unknown
	Substation	BRY	26	2022-03-19T16:20:19	2022-03-19T17:27:43	1:07:24	Devils_Lake	Watkins_Shaun	Equip Fail Arrester	Failed sub arrester.
	Substation	RBY	26	2022-04-23T10:53:59	2022-04-23T10:54:24	0:00:25	Devils_Lake	Watkins_Shaun	Weather	Significant thunder storm/ice storm/extremely high wind event - lines slapping together, trees, icing galloping lines, broken ties, broken insulators, broken poles.
	Substation	BRY	26	2022-05-12T08:23:22	2022-05-12T08:23:36	0:00:14	Devils_Lake	Watkins_Shaun	Weather	high winds, heavy rain and lightning
	Substation	BYR	26	2022-05-12T18:00:19	2022-05-12T18:00:28	0:00:09	Devils_Lake	Watkins_Shaun	Weather	Storm system moved through with high wind, heavy rains and lightning.
	Substation	BYR	26	2022-05-13T14:53:42	2022-05-13T14:54:10	0:00:28	Devils_Lake	Watkins_Shaun	Weather	50 - 60 mile an hour winds causing long span to slap together
	Substation	BYR	26	2022-05-13T16:09:14	2022-05-13T16:09:25	0:00:11	Devils_Lake	Watkins_Shaun	Weather	50 - 60 mile an hour winds causing long span to slap together
	Substation	BYR	26	2022-05-13T16:19:43	2022-05-13T16:19:55	0:00:12	Devils_Lake	Watkins_Shaun	Weather	50 - 60 mile an hour winds causing long span to slap together.
	Substation	BRY	26	2022-05-13T17:06:42	2022-05-13T17:07:39	0:00:57	Devils_Lake	Watkins_Shaun	Weather	50 - 60 mile an hour winds causing long span to slap together.
	Substation	BRY	26	2022-05-25T15:02:26	2022-05-25T15:02:37	0:00:11	Devils_Lake	Watkins_Shaun	Unknown	Unknown
	Substation	BRY	26	2022-06-19T23:56:10	2022-06-19T23:57:18	0:01:08	Devils_Lake	Watkins_Shaun	Weather	Storm moved through area.

Equipment ID	Equipment Type	Phase(s)	Customers	Outage Start	Outage End	Duration	Customer Service Center	Region	Cause	Notes
	Substation	BRY	26	2022-06-24T16:52:54	2022-06-24T16:53:06	0:00:12	Devils_Lake	Watkins_Shaun	Weather	Severe storm moved through. Lightning struck 4 poles
	Substation	BRY	25	2022-08-18T03:22:09	2022-08-18T03:23:12	0:01:03	Devils_Lake	Watkins_Shaun	Weather	Severe storms moved through the area
	Substation	BY	20	2022-09-04T07:48:19	2022-09-04T07:49:25	0:01:06	Devils_Lake	Watkins_Shaun	Unknown	Unknown
	Substation	BRY	26	2022-09-21T07:41:23	2022-09-21T09:21:36	1:40:13	Devils_Lake	Watkins_Shaun	Planned	Planned outage to install new substation transformer
	Substation	BRY	26	2022-11-03T05:59:47	2022-11-03T12:14:55	6:15:08	Devils_Lake	Watkins_Shaun	Planned	Planned outage for sub cutter. JCH Audited 11/29/2022
	Substation	BRY	26	2022-12-23T04:58:31	2022-12-23T04:59:36	0:01:05	Devils_Lake	Watkins_Shaun	Weather	Blizzard conditions combined with icing and high winds caused excess of 100 floaters on different line sections
	Substation	BRY	26	2022-12-23T09:01:10	2022-12-23T09:01:35	0:00:25	Devils_Lake	Watkins_Shaun	Weather	Blizzard conditions combined with icing and high winds caused excess of 100 floaters on different line sections
	Substation	BRY	26	2022-12-23T10:01:12	2022-12-23T10:01:38	0:00:26	Devils_Lake	Watkins_Shaun	Weather	Blizzard conditions combined with icing and high winds caused excess of 100 floaters on different line sections
	Substation	BRY	26	2022-12-23T10:25:01	2022-12-23T10:25:27	0:00:26	Devils_Lake	Watkins_Shaun	Weather	Blizzard conditions combined with icing and high winds caused excess of 100 floaters on different line sections
	Substation	BYR	26	2022-12-23T10:39:23	2022-12-23T10:40:27	0:01:04	Devils_Lake	Watkins_Shaun	Weather	Blizzard conditions combined with icing and high winds caused excess of 100 floaters on different line sections
	Substation	BRY	26	2022-12-23T10:43:52	2022-12-23T10:44:18	0:00:26	Devils_Lake	Watkins_Shaun	Weather	Blizzard conditions combined with icing and high winds caused excess of 100 floaters on different line sections
	Substation	RBY	312	2022-04-24T08:21:27	2022-04-24T08:21:36	0:00:09	Rugby	Rath_Todd	Weather	Severe Weather including High winds, Freezing rain, Snow and rain caused Broken poles, switches, Xarms, wire and insulators leading to multiple power outages throughout the area.
	Substation	RBY	312	2022-04-24T08:22:29	2022-04-24T08:38:12	0:15:43	Rugby	Rath_Todd	Weather	Severe Weather including High winds, Freezing rain, Snow and rain caused Broken poles, switches, Xarms, wire and insulators leading to multiple power outages throughout the area.
	Substation	RBY	312	2022-05-09T13:38:00	2022-05-09T13:38:04	0:00:04	Rugby	Rath_Todd	Weather	Stormy weather rolled through the area with lightning and heavy winds.
	Substation	RBY	312	2022-05-31T10:21:53	2022-05-31T10:28:30	0:06:37	Rugby	Rath_Todd	Animal	Squire caused breaker operation
	Substation	RBY	312	2022-06-29T05:01:12	2022-06-29T05:01:19	0:00:07	Rugby	Rath_Todd	Unknown	SReps could not find a reason for the quick blink's in the area
	Substation	RBY	312	2022-07-02T23:02:32	2022-07-02T23:02:40	0:00:08	Rugby	Rath_Todd	Unknown	SRep could not find a reason for short blink
	Substation	RBY	312	2022-07-04T01:43:17	2022-07-04T01:44:26	0:01:09	Rugby	Rath_Todd	Unknown	SRep could not find a reason for short blink
	Substation	RBY	312	2022-07-10T05:10:15	2022-07-10T05:10:22	0:00:07	Rugby	Rath_Todd	Weather	Storms rolled through the area causing damage throughout its path.
	Substation	RBY	312	2022-09-15T13:15:36	2022-09-15T13:15:44	0:00:08	Rugby	Rath_Todd	Unknown	rain, lightning and high winds
	Substation	RBY	312	2022-09-23T00:25:25	2022-09-23T00:25:32	0:00:07	Rugby	Rath_Todd	Equip Fail Pole	Unknown
	Substation	RBY	312	2022-09-23T01:15:42	2022-09-23T02:38:12	1:22:30	Rugby	Rath_Todd	Equip Fail Pole	Replace broken pole.
	Substation	RBY	312	2022-12-12T20:38:23	2022-12-12T20:38:30	0:00:07	Rugby	Rath_Todd	Equip Fail Insulator	Replace broken pole.
	Substation	RBY	312	2022-12-15T07:59:11	2022-12-15T08:34:21	0:35:10	Rugby	Rath_Todd	Weather	Insulator tracked across burning pole off
	Substation	RBY	312	2022-12-15T13:14:09	2022-12-15T13:14:17	0:00:08	Rugby	Rath_Todd	Weather	Icing conditions high winds/blizzard
	Substation	RBY	312	2022-12-15T14:56:17	2022-12-15T14:56:25	0:00:08	Rugby	Rath_Todd	Weather	Icing conditions high winds/blizzard
	Substation	RBY	312	2022-12-15T18:45:05	2022-12-15T18:45:09	0:00:04	Rugby	Rath_Todd	Weather	Icing conditions high winds/blizzard
	Substation	RBY	312	2022-12-16T04:58:48	2022-12-16T05:45:48	0:47:00	Rugby	Rath_Todd	Weather	Icing conditions high winds/blizzard
	Substation	RBY	312	2022-12-25T07:26:31	2022-12-25T07:26:42	0:00:11	Rugby	Rath_Todd	Weather	Blizzard - high winds ice and snow - broken phase, guy wires...
	Substation	RBY	312	2022-12-25T15:29:16	2022-12-25T15:29:33	0:00:17	Rugby	Rath_Todd	Weather	Blizzard - high winds ice and snow - broken phase, guy wires...
	Substation	BRY	407	2022-03-14T22:56:39	2022-03-14T22:56:57	0:00:18	Devils_Lake	Foss_Jerry	Unknown	Unknown
	Substation	BRY	407	2022-04-23T05:56:13	2022-04-23T05:56:36	0:00:23	Devils_Lake	Foss_Jerry	Weather	Significant thunder storm/ice storm/extremely high wind event - lines slapping together, trees, icing galloping lines, broken ties, broken insulators, broken poles.
	Substation	BRY	407	2022-06-15T06:32:58	2022-06-15T06:33:19	0:00:21	Devils_Lake	Foss_Jerry	Equip Fail Pole	Broken pole in store that moved through
	Substation	BRY	407	2022-06-24T18:12:16	2022-06-24T18:12:34	0:00:18	Devils_Lake	Foss_Jerry	Lightning	Storm through the area. 4 poles took shots of lightning. 3 by McVillie and one by Fort Totten
	Substation	BRY	406	2022-07-15T15:16:39	2022-07-15T15:16:59	0:00:20	Devils_Lake	Foss_Jerry	Unknown	Unknown
	Substation	BRY	407	2022-07-23T00:05:28	2022-07-23T00:05:49	0:00:21	Devils_Lake	Foss_Jerry	Weather	Storm moving through - high winds and lightning
	Substation	BRY	407	2022-09-04T07:48:18	2022-09-04T07:48:46	0:00:28	Devils_Lake	Foss_Jerry	Unknown	Unknown
	Feeder	RY	178	2022-08-25T09:21:07	2022-08-25T09:21:17	0:00:10	Devils_Lake	Foss_Jerry	Unknown	Uhknown
	Feeder	B	80	2022-08-25T09:21:24	2022-08-25T09:21:31	0:00:07	Devils_Lake	Foss_Jerry	Unknown	Uhknown
	Feeder	RBY	149	2022-07-18T20:39:15	2022-07-18T20:39:21	0:00:06	Devils_Lake	Foss_Jerry	Unknown	Uhknown
	Substation	BRY	279	2022-01-13T11:45:53	2022-01-13T12:49:42	1:03:49	Jamestown	Bruner_Brent	Unknown	Unknown distribution fault caused Peaking Plant breaker 815 to operate causing Jamestown SE lct motor-operated switch 781 to open which caused transmission issues between Jamestown and Edgeley load pockets. Cause unknown upon investigation.
	Substation	RBY	277	2022-02-01T01:46:00	2022-02-01T01:46:25	0:00:25	Jamestown	Bruner_Brent	Weather	Freezing rain with high winds caused interruptions.
	Substation	BRY	276	2022-02-01T01:58:21	2022-02-01T01:58:45	0:00:24	Jamestown	Bruner_Brent	Weather	Freezing rain with high winds caused interruptions.
	Substation	BRY	274	2022-02-01T02:04:11	2022-02-01T02:04:35	0:00:24	Jamestown	Bruner_Brent	Weather	Freezing rain with high winds caused interruptions.
	Substation	RBY	277	2022-02-01T02:13:43	2022-02-01T02:14:07	0:00:24	Jamestown	Bruner_Brent	Weather	Freezing rain with high winds caused interruptions.
	Substation	RBY	279	2022-02-01T02:18:18	2022-02-01T02:18:43	0:00:25	Jamestown	Bruner_Brent	Weather	Freezing rain with high winds caused interruptions.

Equipment ID	Equipment Type	Phase(s)	Customers	Outage Start	Outage End	Duration	Customer Service Center	Region	Cause	Notes
	Substation	BRY	275	2022-02-01T02:57:52	2022-02-01T02:58:16	0:00:24	Jamestown	Bruner_Brent	Weather	Freezing rain with high winds caused interruptions.
	Substation	RBY	278	2022-02-01T03:06:32	2022-02-01T03:06:57	0:00:25	Jamestown	Bruner_Brent	Weather	Freezing rain with high winds caused interruptions.
	Substation	BRY	269	2022-02-01T03:19:51	2022-02-01T03:20:15	0:00:24	Jamestown	Bruner_Brent	Weather	Freezing rain with high winds caused interruptions.
	Substation	RBY	277	2022-02-01T03:40:58	2022-02-01T03:41:22	0:00:24	Jamestown	Bruner_Brent	Weather	Freezing rain with high winds caused interruptions.
	Substation	RBY	278	2022-02-01T03:49:00	2022-02-01T03:49:28	0:00:28	Jamestown	Bruner_Brent	Weather	Freezing rain with high winds caused interruptions.
	Substation	BRY	278	2022-04-22T22:52:52	2022-04-22T22:53:15	0:00:23	Jamestown	Bruner_Brent	Weather	Storms in the area.
	Substation	BRY	278	2022-04-23T00:10:17	2022-04-23T00:10:41	0:00:24	Jamestown	Bruner_Brent	Weather	Storms in the area.
	Substation	RBY	260	2022-04-23T00:11:02	2022-04-23T00:11:28	0:00:26	Jamestown	Bruner_Brent	Weather	Storms in the area.
	Substation	R	108	2022-04-26T11:00:03	2022-04-26T11:09:40	0:09:37	Jamestown	Bruner_Brent	Unknown	Unknown and not investigated.
	Substation	BRY	279	2022-05-13T13:34:36	2022-05-13T13:39:44	0:05:08	Jamestown	Bruner_Brent	Equip Fail Pole	3 poles fell over in the slough 1 mile south of I-94 and Hwy 30 due to strong winds and wet conditions.
	Substation	BRY	278	2022-05-13T14:38:17	2022-05-13T14:41:44	0:03:27	Jamestown	Bruner_Brent	Equip Fail Pole	3 poles fell over in the slough 1 mile south of I-94 and Hwy 30 due to strong winds and wet conditions.
	Substation	BRY	277	2022-05-13T14:48:42	2022-05-13T14:56:49	0:08:07	Jamestown	Bruner_Brent	Equip Fail Pole	3 poles fell over in the slough 1 mile south of I-94 and Hwy 30 due to strong winds and wet conditions.
	Substation	BRY	273	2022-05-13T15:05:56	2022-05-13T16:50:10	1:44:14	Jamestown	Bruner_Brent	Equip Fail Pole	3 poles fell over in the slough 1 mile south of I-94 and Hwy 30 due to strong winds and wet conditions.
	Substation	BRY	278	2022-06-14T05:32:02	2022-06-14T05:33:08	0:01:06	Jamestown	Bruner_Brent	Weather	Storm in the area.
	Substation	BRY	279	2022-06-14T05:43:51	2022-06-14T05:44:15	0:00:24	Jamestown	Bruner_Brent	Weather	Storm in the area.
	Substation	BRY	279	2022-06-20T16:38:09	2022-06-20T16:44:14	0:06:05	Jamestown	Bruner_Brent	Unknown	Investigated and cause not known. SEL 35.12 from Jamestown and 12.6 from Edgeley.
	Substation	BRY	279	2022-06-29T23:29:24	2022-06-29T23:32:24	0:03:00	Jamestown	Bruner_Brent	Vegetation	Storm in the area caused trees, approximately 10 miles north of Edgeley, to contact transmission line which opened the breaker.
	Substation	BRY	279	2022-07-07T06:21:38	2022-07-07T06:22:05	0:00:27	Jamestown	Bruner_Brent	Weather	Storms in the area.
	Substation	BRY	279	2022-07-31T02:43:27	2022-07-31T02:43:53	0:00:26	Jamestown	Bruner_Brent	Weather	Storm passing through the area.
	Substation	BRY	279	2022-08-15T07:35:55	2022-08-15T09:09:07	1:33:12	Jamestown	Bruner_Brent	Unknown	CPEC switch 893 partially open and switch 892 open. No known cause.
	Substation	BRY	279	2022-08-28T06:37:04	2022-08-28T06:37:30	0:00:26	Jamestown	Bruner_Brent	Weather	Lightning storm in the area. Line patrolled per SEL data, but nothing found.
	Substation	BRY	279	2022-08-28T07:15:25	2022-08-28T07:15:51	0:00:26	Jamestown	Bruner_Brent	Weather	Lightning storm in the area. Line patrolled per SEL data, but nothing found.
	Substation	BRY	279	2022-09-01T16:39:25	2022-09-01T16:39:46	0:00:21	Jamestown	Bruner_Brent	Unknown	Unknown and not investigated.
	Substation	BRY	279	2022-09-16T10:09:25	2022-09-16T10:12:01	0:02:36	Jamestown	Bruner_Brent	other	CPEC motor operated.
	Substation	BRY	277	2022-11-06T11:46:53	2022-11-06T11:47:18	0:00:25	Jamestown	Bruner_Brent	Equip Fail Insulator	Broken center phase insulator between Jamestown Radio Station sub and Millarton-Montpelier Sub.
	Substation	BRY	279	2022-11-06T14:21:55	2022-11-06T14:22:19	0:00:24	Jamestown	Bruner_Brent	Equip Fail Insulator	Broken center phase insulator between Jamestown Radio Station sub and Millarton-Montpelier Sub.
	Substation	BRY	275	2022-11-06T14:50:20	2022-11-06T14:50:43	0:00:23	Jamestown	Bruner_Brent	Equip Fail Insulator	Broken center phase insulator between Jamestown Radio Station sub and Millarton-Montpelier Sub.
	Substation	BRY	277	2022-11-09T20:56:32	2022-11-09T20:56:47	0:00:15	Jamestown	Bruner_Brent	Weather	Galloping lines caused by freezing rain and windy conditions.
	Substation	BRY	278	2022-11-09T21:48:29	2022-11-09T21:48:42	0:00:13	Jamestown	Bruner_Brent	Equip Fail Pole	Top of pole burned between Cleveland and Windsor.
	Substation	BRY	279	2022-11-10T03:47:30	2022-11-10T04:33:25	0:45:55	Jamestown	Bruner_Brent	Weather	Galloping lines caused by freezing rain and windy conditions.
	Substation	BRY	279	2022-11-30T20:04:48	2022-11-30T20:10:27	0:05:39	Jamestown	Bruner_Brent	Equip Fail Conductor	Phase burned down between Jamestown and Eldridge.
	Substation	BRY	279	2022-12-03T00:06:49	2022-12-03T00:12:47	0:05:58	Jamestown	Bruner_Brent	Equip Fail Conductor	Phase burned down between Windsor and Cleveland.
	Substation	BRY	279	2022-12-12T14:39:07	2022-12-12T14:59:39	0:20:32	Jamestown	Bruner_Brent	Equip Fail Pole	Burned off pole top between Windsor and Cleveland.
	Substation	RBY	435	2022-04-12T23:10:42	2022-04-13T09:42:00	10:31:18	Bemidji	Marshall_Bernie	Equip Fail Insulator	Failed distribution insulator on underbuild caused pole fire on 41.6 KV line. JCH audited 4/27/22
	Substation	RBY	435	2022-05-13T14:08:48	2022-05-13T14:09:07	0:00:19	Bemidji	Marshall_Bernie		
	Substation	RBY	435	2022-06-20T16:28:37	2022-06-20T18:16:19	1:47:42	Bemidji	Marshall_Bernie		
	Substation	RBY	435	2022-06-24T12:36:29	2022-06-24T12:36:35	0:00:06	Bemidji	Marshall_Bernie		
	Substation	RBY	435	2022-07-30T16:02:13	2022-07-30T16:04:19	0:02:06	Bemidji	Marshall_Bernie		
	Substation	RBY	435	2022-11-02T13:53:37	2022-11-02T15:21:14	1:27:37	Bemidji	Marshall_Bernie		
	Substation	B	36	2022-04-24T08:21:21	2022-04-24T08:21:33	0:00:12	Rugby	Gravseth_Chad	Weather	Severe Weather including High winds, Freezing rain, Snow and rain caused Broken poles, switches, Xarms, wire and insulators leading to multiple power outages throughout the area.
	Substation	B	36	2022-04-24T08:22:23	2022-04-24T08:38:09	0:15:46	Rugby	Gravseth_Chad	Weather	Severe Weather including High winds, Freezing rain, Snow and rain caused Broken poles, switches, Xarms, wire and insulators leading to multiple power outages throughout the area.
	Substation	B	36	2022-05-09T13:37:53	2022-05-09T13:38:00	0:00:07	Rugby	Gravseth_Chad	Weather	Stormy weather rolled through the area with lightning and heavy winds.
	Substation	B	36	2022-06-29T05:01:23	2022-06-29T05:01:40	0:00:17	Rugby	Gravseth_Chad	Unknown	SReps could not find a reason for the quick blink's in the area
	Substation	B	36	2022-07-02T23:02:47	2022-07-02T23:03:00	0:00:13	Rugby	Gravseth_Chad	Unknown	SRep could not find a reason for short blink
	Substation	B	36	2022-07-04T01:43:30	2022-07-04T01:43:42	0:00:12	Rugby	Gravseth_Chad	Unknown	SRep could not find a reason for short blink

Equipment ID	Equipment Type	Phase(s)	Customers	Outage Start	Outage End	Duration	Customer Service Center	Region	Cause	Notes
	Substation	B	36	2022-07-10T05:10:10	2022-07-10T05:10:22	0:00:12	Rugby	Gravseth_Chad	Weather	Storms rolled through the area causing damage throughout its path.
	Substation	B	36	2022-09-23T00:25:21	2022-09-23T00:25:33	0:00:12	Rugby	Gravseth_Chad	Equip Fail Pole	rain, lightning and high winds
	Substation	B	36	2022-09-23T01:15:38	2022-09-23T02:38:47	1:23:09	Rugby	Gravseth_Chad	Equip Fail Pole	Replace broken pole.
	Substation	B	36	2022-12-12T20:38:17	2022-12-12T20:38:31	0:00:14	Rugby	Gravseth_Chad	Equip Fail Insulator	Replace broken pole.
	Substation	B	36	2022-12-15T07:59:05	2022-12-15T09:19:36	1:20:31	Rugby	Gravseth_Chad	Weather	Insulator tracked across burning pole off
	Substation	B	36	2022-12-15T09:30:23	2022-12-15T09:34:38	0:04:15	Rugby	Gravseth_Chad	Weather	Icing conditions high winds/blizzard
	Substation	B	36	2022-12-15T09:44:59	2022-12-15T10:02:01	0:17:02	Rugby	Gravseth_Chad	Weather	Icing conditions high winds/blizzard
	Substation	B	36	2022-12-15T12:51:25	2022-12-15T12:51:38	0:00:13	Rugby	Gravseth_Chad	Weather	Icing conditions high winds/blizzard
	Substation	B	36	2022-12-15T12:59:03	2022-12-15T12:59:15	0:00:12	Rugby	Gravseth_Chad	Weather	Icing conditions high winds/blizzard
	Substation	B	36	2022-12-15T13:06:25	2022-12-15T13:06:37	0:00:12	Rugby	Gravseth_Chad	Weather	Icing conditions high winds/blizzard
	Substation	B	36	2022-12-15T14:25:11	2022-12-15T14:26:03	0:00:52	Rugby	Gravseth_Chad	Weather	Icing conditions high winds/blizzard
	Substation	B	36	2022-12-15T14:43:29	2022-12-15T14:43:41	0:00:12	Rugby	Gravseth_Chad	Weather	Icing conditions high winds/blizzard
	Substation	B	36	2022-12-15T14:45:25	2022-12-15T14:46:04	0:00:39	Rugby	Gravseth_Chad	Weather	Icing conditions high winds/blizzard
	Substation	B	36	2022-12-15T14:47:52	2022-12-15T14:53:45	0:05:53	Rugby	Gravseth_Chad	Weather	Icing conditions high winds/blizzard
	Substation	B	36	2022-12-15T15:05:38	2022-12-15T18:04:18	2:58:40	Rugby	Gravseth_Chad	Weather	Icing conditions high winds/blizzard
	Substation	B	36	2022-12-15T19:54:06	2022-12-15T19:54:18	0:00:12	Rugby	Gravseth_Chad	Weather	Icing conditions high winds/blizzard
	Substation	B	36	2022-12-15T19:59:26	2022-12-15T20:03:16	0:03:50	Rugby	Gravseth_Chad	Weather	Icing conditions high winds/blizzard
	Substation	B	36	2022-12-25T07:26:24	2022-12-25T07:26:41	0:00:17	Rugby	Gravseth_Chad	Weather	Blizzard - high winds, ice and snow, broken phase, guy wires and other issues
	Substation	B	36	2022-12-25T15:29:09	2022-12-25T15:29:33	0:00:24	Rugby	Gravseth_Chad	Weather	Blizzard - high winds ice and snow - broken phase, guy wires...
	Substation	BRY	332	2022-01-08T02:46:48	2022-01-08T02:47:26	0:00:38	Devils_Lake	Watkins_Shaun	Equip Fail Conductor	Yellow Phase cable faulted out of the warehouse sub which was seen on the transmission
	Substation	BRY	332	2022-01-11T15:13:13	2022-01-11T15:13:40	0:00:27	Devils_Lake	Watkins_Shaun	Unknown	Unknown
	Substation	BRY	332	2022-02-21T10:10:20	2022-02-21T10:22:01	0:11:41	Devils_Lake	Watkins_Shaun	Equip Fail Cutout	Failed Cutout in substation
	Substation	BRY	332	2022-03-14T22:56:42	2022-03-14T22:56:59	0:00:17	Devils_Lake	Watkins_Shaun	Unknown	Unknown
	Substation	BRY	331	2022-03-19T16:20:16	2022-03-19T16:52:56	0:32:40	Devils_Lake	Watkins_Shaun	Equip Fail Arrester	Failed sub arrester.
	Substation	BRY	331	2022-04-23T10:53:59	2022-04-23T10:54:26	0:00:27	Devils_Lake	Watkins_Shaun	Weather	Significant thunder storm/ice storm/extremely high wind event - lines slapping together, trees, icing galloping lines, broken ties, broken insulators, broken poles.
	Substation	BRY	332	2022-05-12T08:23:25	2022-05-12T08:23:53	0:00:28	Devils_Lake	Watkins_Shaun	Weather	high winds, heavy rain and lightning
	Substation	BRY	330	2022-05-12T18:00:18	2022-05-12T18:00:44	0:00:26	Devils_Lake	Watkins_Shaun	Weather	Storm system moved through with high wind, heavy rains and lightning.
	Substation	BRY	331	2022-05-13T14:53:43	2022-05-13T14:54:26	0:00:43	Devils_Lake	Watkins_Shaun	Weather	50 - 60 mile an hour winds causing long span to slap together
	Substation	B	128	2022-05-13T16:09:16	2022-05-13T16:09:22	0:00:06	Devils_Lake	Watkins_Shaun	Weather	50 - 60 mile an hour winds causing long span to slap together
	Substation	RY	204	2022-05-13T16:09:25	2022-05-13T16:09:42	0:00:17	Devils_Lake	Watkins_Shaun	Weather	50 - 60 mile an hour winds causing long span to slap together
	Substation	B	126	2022-05-13T16:19:44	2022-05-13T16:19:52	0:00:08	Devils_Lake	Watkins_Shaun	Weather	50 - 60 mile an hour winds causing long span to slap together.
	Substation	RY	205	2022-05-13T16:19:54	2022-05-13T16:20:11	0:00:17	Devils_Lake	Watkins_Shaun	Weather	50 - 60 mile an hour winds causing long span to slap together.
	Substation	BRY	324	2022-05-13T17:06:43	2022-05-13T17:07:56	0:01:13	Devils_Lake	Watkins_Shaun	Weather	50 - 60 mile an hour winds causing long span to slap together.
	Substation	BRY	332	2022-05-25T15:02:27	2022-05-25T15:02:54	0:00:27	Devils_Lake	Watkins_Shaun	Unknown	Unknown
	Substation	BRY	328	2022-06-19T23:56:07	2022-06-19T23:56:33	0:00:26	Devils_Lake	Watkins_Shaun	Weather	Storm moved through area.
	Substation	B	129	2022-06-24T16:52:56	2022-06-24T16:53:04	0:00:08	Devils_Lake	Watkins_Shaun	Weather	Severe storm moved through. Lightning struck 4 poles
	Substation	RY	204	2022-06-24T16:53:04	2022-06-24T16:53:19	0:00:15	Devils_Lake	Watkins_Shaun	Weather	Severe storm moved through. Lightning struck 4 poles
	Substation	BRY	331	2022-07-23T03:27:13	2022-07-23T05:11:26	1:44:13	Devils_Lake	Watkins_Shaun	Lightning	Lightning struck 41.6kv during storm burning pole top off.
	Substation	B	129	2022-08-18T03:22:05	2022-08-18T03:22:17	0:00:12	Devils_Lake	Watkins_Shaun	Weather	Severe storms moved through the area
	Substation	RY	202	2022-08-18T03:22:19	2022-08-18T03:22:35	0:00:16	Devils_Lake	Watkins_Shaun	Weather	Severe storms moved through the area
	Substation	B	131	2022-09-04T07:48:20	2022-09-04T07:48:27	0:00:07	Devils_Lake	Watkins_Shaun	Unknown	Unknown
	Substation	RY	201	2022-09-04T07:48:29	2022-09-04T07:48:45	0:00:16	Devils_Lake	Watkins_Shaun	Unknown	Unknown
	Substation	BRY	332	2022-12-23T04:58:40	2022-12-23T04:58:55	0:00:15	Devils_Lake	Watkins_Shaun	Weather	Blizzard conditions combined with icing and high winds caused excess of 100 floaters on different line sections
	Substation	BRY	332	2022-12-23T09:01:18	2022-12-23T09:01:36	0:00:18	Devils_Lake	Watkins_Shaun	Weather	Blizzard conditions combined with icing and high winds caused excess of 100 floaters on different line sections
	Substation	BRY	329	2022-12-23T10:01:20	2022-12-23T10:01:38	0:00:18	Devils_Lake	Watkins_Shaun	Weather	Blizzard conditions combined with icing and high winds caused excess of 100 floaters on different line sections
	Substation	BRY	331	2022-12-23T10:25:09	2022-12-23T10:25:27	0:00:18	Devils_Lake	Watkins_Shaun	Weather	Blizzard conditions combined with icing and high winds caused excess of 100 floaters on different line sections
	Substation	BRY	321	2022-12-23T10:39:31	2022-12-23T10:40:26	0:00:55	Devils_Lake	Watkins_Shaun	Weather	Blizzard conditions combined with icing and high winds caused excess of 100 floaters on different line sections
	Substation	BRY	332	2022-12-23T10:44:00	2022-12-23T10:44:19	0:00:19	Devils_Lake	Watkins_Shaun	Weather	Blizzard conditions combined with icing and high winds caused excess of 100 floaters on different line sections
	Substation	BR	63	2022-01-13T11:46:07	2022-01-13T15:36:41	3:50:34	Jamestown	Bruner_Brent	Itron meter voltage source failure	JCH audit 1/28 Unknown distribution fault caused Peaking Plant breaker 815 to operate causing Jamestown SE Jct motor-operated switch 781 to open which caused transmission issues between Jamestown & Edgeley load pockets. Cause unknown upon investigation.

Equipment ID	Equipment Type	Phase(s)	Customers	Outage Start	Outage End	Duration	Customer Service Center	Region	Cause	Notes
	Substation	BR	62	2022-02-01T02:41:57	2022-02-01T02:42:08	0:00:11	Jamestown	Bruner_Brent	Weather	Freezing rain with high winds caused interruptions.
	Substation	BR	63	2022-02-01T03:08:48	2022-02-01T03:08:59	0:00:11	Jamestown	Bruner_Brent	Weather	Freezing rain with high winds caused interruptions.
	Substation	BR	63	2022-02-01T03:15:11	2022-02-01T03:15:22	0:00:11	Jamestown	Bruner_Brent	Weather	Freezing rain with high winds caused interruptions.
	Substation	BR	62	2022-02-01T03:26:44	2022-02-01T03:26:55	0:00:11	Jamestown	Bruner_Brent	Weather	Freezing rain with high winds caused interruptions.
	Substation	BR	63	2022-02-01T03:44:38	2022-02-01T03:44:49	0:00:11	Jamestown	Bruner_Brent	Weather	Freezing rain with high winds caused interruptions.
	Substation	BR	63	2022-02-01T04:03:22	2022-02-01T04:03:33	0:00:11	Jamestown	Bruner_Brent	Weather	Freezing rain with high winds caused interruptions.
	Substation	R	33	2022-02-01T04:25:51	2022-02-01T04:25:58	0:00:07	Jamestown	Bruner_Brent	Weather	Freezing rain with high winds caused interruptions.
	Substation	BR	63	2022-02-01T04:36:05	2022-02-01T04:36:16	0:00:11	Jamestown	Bruner_Brent	Weather	Freezing rain with high winds caused interruptions.
	Substation	B	33	2022-02-01T04:36:53	2022-02-01T04:36:57	0:00:04	Jamestown	Bruner_Brent	Weather	Freezing rain with high winds caused interruptions.
	Substation	BR	63	2022-02-01T04:58:58	2022-02-01T04:59:10	0:00:12	Jamestown	Bruner_Brent	Weather	Freezing rain with high winds caused interruptions.
	Substation	BR	63	2022-04-22T22:53:03	2022-04-22T22:53:16	0:00:13	Jamestown	Bruner_Brent	Weather	Storms in the area.
	Substation	BR	63	2022-04-23T00:10:31	2022-04-23T00:10:41	0:00:10	Jamestown	Bruner_Brent	Weather	Storms in the area.
	Substation	BR	63	2022-04-23T00:11:15	2022-04-23T00:11:29	0:00:14	Jamestown	Bruner_Brent	Weather	Storms in the area.
	Substation	B	33	2022-05-13T12:18:38	2022-05-13T12:18:44	0:00:06	Jamestown	Bruner_Brent	Equip Fail Insulator	Failed insulator caused pole to burn and break off at the crossarm bolt 3 poles south of Dakota Valley Millarton switch 753.
	Substation	R	30	2022-05-13T12:18:54	2022-05-13T12:19:00	0:00:06	Jamestown	Bruner_Brent	Equip Fail Insulator	Failed insulator caused pole to burn and break off at the crossarm bolt 3 poles south of Dakota Valley Millarton switch 753.
	Substation	B	33	2022-06-14T05:43:52	2022-06-14T05:43:59	0:00:07	Jamestown	Bruner_Brent	Weather	Storm in the area.
	Substation	R	30	2022-06-14T05:44:11	2022-06-14T05:44:15	0:00:04	Jamestown	Bruner_Brent	Weather	Storm in the area.
	Substation	BR	63	2022-06-20T16:38:07	2022-06-20T16:44:28	0:06:21	Jamestown	Bruner_Brent	Unknown	Investigated and cause not known. SEL 35.12 from Jamestown and 12.6 from Edgeley.
	Substation	BR	63	2022-06-29T23:29:24	2022-06-29T23:32:24	0:03:00	Jamestown	Bruner_Brent	Vegetation	Storm in the area caused trees, approximately 10 miles north of Edgeley, to contact transmission line which opened the breaker.
	Substation	BR	63	2022-07-07T06:21:43	2022-07-07T06:22:47	0:01:04	Jamestown	Bruner_Brent	Weather	Storms in the area.
	Substation	BR	63	2022-08-28T07:15:40	2022-08-28T07:15:52	0:00:12	Jamestown	Bruner_Brent	Weather	Lightning storm in the area. Line patrolled per SEL data, but nothing found.
	Substation	BR	63	2022-11-06T11:47:08	2022-11-06T11:47:19	0:00:11	Jamestown	Bruner_Brent	Equip Fail Insulator	Broken center phase insulator between Jamestown Radio Station sub and Millarton-Montpelier Sub.
	Substation	BR	63	2022-11-09T20:56:32	2022-11-09T20:56:45	0:00:13	Jamestown	Bruner_Brent	Weather	Galloping lines caused by freezing rain and windy conditions.
	Substation	BR	63	2022-11-10T03:47:35	2022-11-10T03:48:24	0:00:49	Jamestown	Bruner_Brent	Weather	Galloping lines caused by freezing rain and windy conditions.
	Substation	RBY	554	2022-04-17T03:43:19	2022-04-17T03:43:26	0:00:07	Wahpeton	Grosgebauer_John	Equip Fail Pole	Pole fell over in the wind had to be pushed back and anchored.
	Substation	RBY	554	2022-04-22T23:49:41	2022-04-22T23:51:06	0:01:25	Wahpeton	Grosgebauer_John	Weather	Storms with high winds in the whole area.
	Substation	RBY	554	2022-04-23T02:10:41	2022-04-23T02:12:48	0:02:07	Wahpeton	Grosgebauer_John	Weather	Storms with high winds in the whole area.
	Substation	RBY	554	2022-05-08T16:47:08	2022-05-08T17:42:23	0:55:15	Wahpeton	Grosgebauer_John	Equip Fail Arrester	Arrester in Sub Station failed
	Substation	RBY	554	2022-05-29T01:26:34	2022-05-29T01:26:38	0:00:04	Wahpeton	Grosgebauer_John	Weather	Storms in the area
	Substation	RBY	554	2022-06-02T16:45:44	2022-06-02T16:45:49	0:00:05	Wahpeton	Grosgebauer_John	Equip Fail Cutout	Cut out failed
	Substation	RBY	554	2022-06-02T17:50:25	2022-06-02T18:05:45	0:15:20	Wahpeton	Grosgebauer_John	Equip Fail Cutout	Cut out failed
	Substation	RBY	554	2022-10-19T20:47:29	2022-10-19T20:47:33	0:00:04	Wahpeton	Grosgebauer_John	Equip Fail Conductor	broken tie wire caused two wires to make contact with each other.
	Substation	RBY	554	2022-11-15T21:19:18	2022-11-15T21:19:32	0:00:14	Wahpeton	Grosgebauer_John		
	Substation	RBY	554	2022-12-13T16:44:14	2022-12-13T17:04:53	0:20:39	Wahpeton	Grosgebauer_John	Weather	Heavy snow on insulators was causing tracking to the poles and breakers tripped and would not hold.
	Substation	RBY	554	2022-12-13T17:59:48	2022-12-13T18:00:58	0:01:10	Wahpeton	Grosgebauer_John	Weather	Heavy snow on insulators was causing tracking to the poles and breakers tripped and would not hold.
	Substation	RBY	554	2022-12-13T18:49:38	2022-12-13T18:50:21	0:00:43	Wahpeton	Grosgebauer_John	Weather	Heavy snow on insulators was causing tracking to the poles and breakers tripped and would not hold.
	Substation	RBY	554	2022-12-13T19:26:18	2022-12-13T19:34:07	0:07:49	Wahpeton	Grosgebauer_John	Weather	Heavy snow on insulators was causing tracking to the poles and breakers tripped and would not hold.
	Substation	RBY	260	2022-01-17T12:03:45	2022-01-17T12:03:51	0:00:06	Devils_Lake	Chase_Scott	Equip Fail Insulator	Rep found broken insulator on 41.6kv line by Oberon.
	Substation	RBY	260	2022-05-12T21:17:19	2022-05-12T21:17:27	0:00:08	Devils_Lake	Chase_Scott	Weather	Storm system moved through with high wind, heavy rains and lightning.
	Substation	RBY	260	2022-05-13T10:55:37	2022-05-13T10:55:53	0:00:16	Devils_Lake	Chase_Scott	Vegetation	Due to high winds, evergreens near Brinsmade fell into 41.6kv line.
	Substation	RBY	260	2022-05-13T12:38:55	2022-05-13T12:40:49	0:01:54	Devils_Lake	Chase_Scott	Weather	Due to high winds evergreens near Brinsmade fell into 41.6kv line again.
	Substation	RBY	260	2022-05-13T12:44:05	2022-05-13T13:24:34	0:40:29	Devils_Lake	Chase_Scott	Weather	Due to high winds evergreens near Brinsmade fell into 41.6kv line again.
	Substation	RBY	260	2022-05-17T10:27:10	2022-05-17T10:27:24	0:00:14	Devils_Lake	Chase_Scott	Unknown	Unknown
	Substation	RBY	260	2022-06-09T14:39:01	2022-06-09T14:39:05	0:00:04	Devils_Lake	Chase_Scott	Equip Fail Fuse unknown cause	Fuse blown - nothing found.
	Substation	RBY	260	2022-06-20T03:51:07	2022-06-20T03:51:12	0:00:05	Devils_Lake	Chase_Scott	Weather	Storm moved through the area.
	Substation	RBY	260	2022-07-10T06:07:14	2022-07-10T06:11:30	0:04:16	Devils_Lake	Chase_Scott	Equip Fail Pole	Four broken transmission poles with underbuild due to storm

Equipment ID	Equipment Type	Phase(s)	Customers	Outage Start	Outage End	Duration	Customer Service Center	Region	Cause	Notes
	Substation	RBY	260	2022-07-10T06:22:17	2022-07-10T07:44:35	1:22:18	Devils_Lake	Chase_Scott	Equip Fail Pole	Four broken transmission poles with underbuild due to storm
	Substation	RBY	260	2022-07-22T22:47:42	2022-07-22T22:47:49	0:00:07	Devils_Lake	Chase_Scott	Weather	Storm moving through - high winds and lightning
	Substation	RBY	260	2022-08-15T10:30:10	2022-08-15T10:30:14	0:00:04	Devils_Lake	Chase_Scott	Weather	Storm moved through area.
	Substation	RBY	260	2022-09-14T17:58:35	2022-09-14T18:26:43	0:28:08	Devils_Lake	Chase_Scott	Equip Fail Pole	Pole broken on 41.6kv line
									Itron meter voltage source failure	
	Substation	RBY	260	2022-10-20T08:59:08	2022-10-20T13:30:56	4:31:48	Devils_Lake	Chase_Scott		Working at itron location
	Substation	RBY	451	2022-02-01T02:31:54	2022-02-01T02:32:02	0:00:08	Crookston	Fenner_Myron		
										Contributing factor to broken insulator is wind and ice with lines galloping. JCH audited 2/28/22
	Substation	RBY	451	2022-02-01T02:33:00	2022-02-01T03:57:47	1:24:47	Crookston	Fenner_Myron	Equip Fail Insulator	40KV insulator failure approx. 4 miles west of Forest River causing pole fire. DLS
	Substation	RBY	451	2022-05-18T22:06:20	2022-05-18T22:07:26	0:01:06	Crookston	Fenner_Myron	Equip Fail Insulator	Bad insulator caused pole fire, this line has been approved for extended line however insulators are on back order. DLS
	Substation	RBY	451	2022-05-25T16:12:33	2022-05-25T17:13:52	1:01:19	Crookston	Fenner_Myron	Equip Fail Insulator	
	Substation	RBY	451	2022-06-24T17:03:07	2022-06-24T17:04:15	0:01:08	Crookston	Fenner_Myron		
	Substation	RBY	451	2022-06-24T17:30:23	2022-06-24T17:31:31	0:01:08	Crookston	Fenner_Myron		
	Substation	RBY	451	2022-06-24T17:36:22	2022-06-24T17:37:30	0:01:08	Crookston	Fenner_Myron		
	Substation	RBY	451	2022-06-24T17:42:40	2022-06-24T17:43:48	0:01:08	Crookston	Fenner_Myron		
	Substation	RBY	451	2022-06-24T18:12:54	2022-06-24T18:14:02	0:01:08	Crookston	Fenner_Myron		
	Substation	RBY	451	2022-06-24T22:36:53	2022-06-25T01:45:15	3:08:22	Crookston	Fenner_Myron	Lightning	Pole damage due to lightning. JCH audited 7/28/22
	Substation	RBY	451	2022-07-14T17:05:14	2022-07-14T17:06:21	0:01:07	Crookston	Fenner_Myron		
	Substation	RBY	451	2022-09-07T22:56:11	2022-09-07T22:57:24	0:01:13	Crookston	Fenner_Myron		
										10.1 miles from Oslo according to relay, investigated with no cause found
	Substation	RBY	451	2022-10-30T07:57:19	2022-10-30T07:58:27	0:01:08	Crookston	Fenner_Myron	Unknown	
	Substation	RBY	451	2022-11-27T09:56:44	2022-11-27T09:56:50	0:00:06	Crookston	Fenner_Myron		
	Substation	B	80	2022-05-09T06:36:29	2022-05-09T06:36:39	0:00:10	Wahpeton	Vetter_Al	Weather	Strong thunderstorms with lots of lightning and heavy rain in the area. Strong storms with straight line winds caused extensive tree damage and several poles to break.
	Substation	B	80	2022-05-12T19:29:36	2022-05-12T19:29:46	0:00:10	Wahpeton	Vetter_Al	Weather	We have patrolled the line but without accurate SEL reading it is very hard to find issue.
	Substation	B	80	2022-05-25T01:10:18	2022-05-25T01:10:27	0:00:09	Wahpeton	Vetter_Al	Unknown	Several strong storms went through the area with high winds and lightning.
	Substation	B	80	2022-05-30T20:10:33	2022-05-30T20:13:23	0:02:50	Wahpeton	Vetter_Al	Weather	Strong storms with wind and rain in the area
	Substation	B	67	2022-06-30T00:17:00	2022-06-30T00:18:04	0:01:04	Wahpeton	Vetter_Al	Weather	No customer calls, 41.6 breaker operated we will patrol when we get time.
	Substation	B	80	2022-09-01T05:14:40	2022-09-01T05:14:55	0:00:15	Wahpeton	Vetter_Al	Unknown	Squirrel got into the sub and caused significant damage.
	Substation	B	80	2022-09-30T13:46:50	2022-09-30T15:01:12	1:14:22	Wahpeton	Vetter_Al	Animal	No customer calls
	Substation	B	80	2022-10-09T19:39:55	2022-10-09T19:40:04	0:00:09	Wahpeton	Vetter_Al	Unknown	
	Feeder	RY	126	2022-05-09T06:36:29	2022-05-09T06:36:50	0:00:21	Wahpeton	Vetter_Al	Weather	Strong thunderstorms with lots of lightning and heavy rain in the area. Strong storms with straight line winds caused extensive tree damage and several poles to break.
	Feeder	RY	126	2022-05-12T19:29:36	2022-05-12T19:29:57	0:00:21	Wahpeton	Vetter_Al	Weather	We have patrolled the line but without accurate SEL reading it is very hard to find issue.
	Feeder	RY	126	2022-05-25T01:10:18	2022-05-25T01:10:39	0:00:21	Wahpeton	Vetter_Al	Unknown	Several strong storms went through the area with high winds and lightning.
	Feeder	RY	126	2022-05-30T20:10:33	2022-05-30T20:13:35	0:03:02	Wahpeton	Vetter_Al	Weather	Strong storms with wind and rain in the area
	Feeder	RY	126	2022-06-30T00:16:55	2022-06-30T00:18:04	0:01:09	Wahpeton	Vetter_Al	Weather	No customer calls, 41.6 breaker operated we will patrol when we get time.
	Feeder	RY	126	2022-09-01T05:14:45	2022-09-01T05:15:07	0:00:22	Wahpeton	Vetter_Al	Unknown	Squirrel got into the sub and caused significant damage.
	Feeder	RY	126	2022-09-30T13:46:50	2022-09-30T15:01:11	1:14:21	Wahpeton	Vetter_Al	Animal	No customer calls
	Feeder	RY	126	2022-10-09T19:39:55	2022-10-09T19:40:17	0:00:22	Wahpeton	Vetter_Al	Unknown	Line has been patrolled but we cant find issue and there are no accurate SEL readings.
	Feeder	B	10	2022-05-28T03:49:36	2022-05-28T03:49:44	0:00:08	Wahpeton	Vetter_Al	Unknown	Storm in the area
	Feeder	B	10	2022-08-05T22:12:11	2022-08-05T22:13:11	0:01:00	Wahpeton	Vetter_Al	Weather	
	Substation	BRY	46	2022-02-23T04:39:05	2022-02-23T04:40:24	0:01:19	Devils_Lake	Ramberg_Jason	Equip Fail Conductor	Broken conductor on 41.6kv line
	Substation	BRY	46	2022-05-07T12:24:25	2022-05-07T15:13:36	2:49:11	Devils_Lake	Ramberg_Jason	Weather	Tree blew into the line. Audited 6/2/22. JCH
	Substation	BRY	46	2022-05-15T03:01:15	2022-05-15T03:01:45	0:00:30	Devils_Lake	Ramberg_Jason	Unknown	Unknown
	Substation	BY	35	2022-07-14T11:27:34	2022-07-14T11:28:02	0:00:28	Devils_Lake	Ramberg_Jason	Unknown	Unknown
	Substation	BY	35	2022-07-18T03:30:59	2022-07-18T03:31:28	0:00:29	Devils_Lake	Ramberg_Jason	Weather	Weather system moved through with wind and lightning
	Substation	BY	35	2022-07-18T14:04:36	2022-07-18T15:16:50	1:12:14	Devils_Lake	Ramberg_Jason	Equip Fail Insulator	Insulator tracked across burning pole top off.
	Substation	BRY	45	2022-12-15T12:19:32	2022-12-15T12:19:56	0:00:24	Devils_Lake	Ramberg_Jason	Weather	icing - blizzard with high winds
	Substation	BRY	44	2022-12-15T12:33:13	2022-12-15T12:33:36	0:00:23	Devils_Lake	Ramberg_Jason	Weather	icing - blizzard with high winds
	Substation	BRY	44	2022-12-15T13:03:06	2022-12-15T13:03:30	0:00:24	Devils_Lake	Ramberg_Jason	Weather	icing - blizzard with high winds
	Substation	BRY	46	2022-12-15T14:25:34	2022-12-15T14:25:58	0:00:24	Devils_Lake	Ramberg_Jason	Weather	icing - blizzard with high winds
	Substation	BRY	45	2022-12-15T15:10:38	2022-12-15T15:11:01	0:00:23	Devils_Lake	Ramberg_Jason	Weather	Icing on lines with high winds - blizzard
	Substation	BRY	45	2022-12-15T16:47:54	2022-12-15T16:48:18	0:00:24	Devils_Lake	Ramberg_Jason	Weather	Icing on lines with high winds - blizzard

Equipment ID	Equipment Type	Phase(s)	Customers	Outage Start	Outage End	Duration	Customer Service Center	Region	Cause	Notes
	Substation	BRY	44	2022-12-15T17:26:08	2022-12-15T17:26:32	0:00:24	Devils_Lake	Ramberg_Jason	Weather	Icing on lines with high winds - blizzard
	Substation	BRY	46	2022-12-19T01:05:58	2022-12-19T01:22:34	0:16:36	Devils_Lake	Ramberg_Jason	Equip Fail Insulator	Broken crossarm, broken phase,floator
	Substation	BRY	46	2022-12-27T15:02:34	2022-12-27T15:02:58	0:00:24	Devils_Lake	Ramberg_Jason	Equip Fail Insulator	Floaters from icing/wind.
	Substation	BRY	46	2022-12-28T12:10:29	2022-12-28T12:11:37	0:01:08	Devils_Lake	Ramberg_Jason	Equip Fail Insulator	Floaters from icing/wind.
	FeederSection	R	1	2022-02-20T02:34:22	2022-02-20T09:39:48	7:05:26	Devils_Lake	Paul_Larson	Equip Fail Conductor	Broken conductor on the 12.5kv line by Mylo. JCH audited 2/28/22
	FeederSection	B	1	2022-02-20T02:34:27	2022-02-20T09:39:53	7:05:26	Devils_Lake	Paul_Larson	Equip Fail Conductor	Broken conductor on the 12.5kv line by Mylo. JCH audited 2/28/22
	FeederSection	R	1	2022-12-24T06:13:08	2022-12-24T07:23:20	1:10:12	Devils_Lake	Paul_Larson	Weather	Blizzard conditions combined with icing and high winds caused excess of 100 floaters on different line sections
	FeederSection	R	1	2022-12-24T07:24:10	2022-12-24T07:41:26	0:17:16	Devils_Lake	Paul_Larson	Weather	Blizzard conditions combined with icing and high winds caused excess of 100 floaters on different line sections
	FeederSection	R	1	2022-12-24T07:42:44	2022-12-24T07:43:03	0:00:19	Devils_Lake	Paul_Larson	Weather	Blizzard conditions combined with icing and high winds caused excess of 100 floaters on different line sections
	FeederSection	R	1	2022-12-24T07:44:05	2022-12-24T08:16:43	0:32:38	Devils_Lake	Paul_Larson	Weather	Blizzard conditions combined with icing and high winds caused excess of 100 floaters on different line sections
	Substation	RBY	364	2022-04-30T01:05:00	2022-04-30T02:21:32	1:16:32	Crookston	Hillukka_Warren	Unknown	Minnkota, breaker opened, line patrolled and nothing found, breaker was tried and held, customer counts should correct. Pembina east feeder and west feeder should have been out the same amount of time. Customer count should be correct
	Substation	RBY	364	2022-06-23T23:43:56	2022-06-23T23:45:11	0:01:15	Crookston	Hillukka_Warren		
	Substation	RBY	364	2022-06-24T19:43:48	2022-06-24T19:44:51	0:01:03	Crookston	Hillukka_Warren		
	Substation	RBY	364	2022-07-02T08:36:49	2022-07-02T08:36:55	0:00:06	Crookston	Hillukka_Warren		
	Substation	RBY	364	2022-07-16T05:52:52	2022-07-16T05:53:31	0:00:39	Crookston	Hillukka_Warren		
	Substation	RBY	364	2022-07-19T15:37:49	2022-07-19T15:38:45	0:00:56	Crookston	Hillukka_Warren		
	Substation	RBY	364	2022-12-13T23:14:07	2022-12-13T23:19:25	0:05:18	Crookston	Hillukka_Warren		
	Substation	RBY	68	2022-02-02T08:53:24	2022-02-02T08:53:31	0:00:07	Devils_Lake	Ramberg_Jason	Equip Fail Conductor	Broken conductor on 41.6kv line. Abnormal switching caused to much load causing breaker to operate several times.
	Substation	RBY	68	2022-02-02T09:30:17	2022-02-02T09:30:23	0:00:06	Devils_Lake	Ramberg_Jason	Equip Fail Conductor	Broken conductor on 41.6kv line.
	Substation	RBY	68	2022-04-27T17:23:09	2022-04-27T17:23:13	0:00:04	Devils_Lake	Ramberg_Jason		
	Substation	RBY	68	2022-05-08T17:45:39	2022-05-08T18:32:26	0:46:47	Devils_Lake	Ramberg_Jason	Vegetation	Tree blew into line from storm.
	Substation	R	32	2022-05-17T15:57:38	2022-05-17T17:30:45	1:33:07	Devils_Lake	Ramberg_Jason	Equip Fail Transformer	Transformer at elevator fertilizer plant had a bushing burnup. Replaced transformer.
	Substation	RBY	68	2022-05-29T20:05:02	2022-05-29T20:05:10	0:00:08	Devils_Lake	Ramberg_Jason	Bird	Bird damaged regulator
	Substation	RBY	68	2022-05-29T21:25:45	2022-05-29T21:48:52	0:23:07	Devils_Lake	Ramberg_Jason	Bird	Bird damaged sub regulator
	Substation	RBY	68	2022-06-24T14:18:10	2022-06-24T14:18:16	0:00:06	Devils_Lake	Ramberg_Jason	Weather	Severe weather moved through the area. Wind and Lightning.
	Substation	RBY	68	2022-07-22T23:36:46	2022-07-23T01:57:47	2:21:01	Devils_Lake	Ramberg_Jason	Vegetation	due to high winds/storm trees broke 41.6kv conductor JCH Audited 7/28/22
	Substation	RBY	68	2022-07-26T02:11:40	2022-07-26T02:12:42	0:01:02	Devils_Lake	Ramberg_Jason	Weather	Storm cell moved through
	Substation	RBY	68	2022-08-15T10:43:36	2022-08-15T10:43:42	0:00:06	Devils_Lake	Ramberg_Jason	Weather	Storm moved through area.
	Substation	RBY	68	2022-08-29T10:07:15	2022-08-29T10:07:21	0:00:06	Devils_Lake	Ramberg_Jason	Unknown	Uhknown
	Substation	BRY	205	2022-03-31T23:21:34	2022-04-01T03:49:30	4:27:56	Wahpeton	Schrader_Allen	Equip Fail Insulator	Had insulator fail & burn off a pole between Geneseo and Veblen. JCH audited 4/30/22
	Substation	Y	73	2022-06-19T22:48:17	2022-06-19T22:48:24	0:00:07	Wahpeton	Schrader_Allen	Weather	Strong storms with high winds and lightning went through the area.
	Substation	Y	73	2022-06-20T00:43:24	2022-06-20T00:43:30	0:00:06	Wahpeton	Schrader_Allen	Weather	Strong storms with high winds and lightning went through the area.
	Substation	R	74	2022-06-20T23:18:38	2022-06-20T23:19:37	0:00:59	Wahpeton	Schrader_Allen	Weather	Strong storms with high winds and lightning went through the area.
	Substation	Y	73	2022-07-12T05:20:11	2022-07-12T05:20:16	0:00:05	Wahpeton	Schrader_Allen		
	Substation	Y	73	2022-07-13T14:51:41	2022-07-13T14:51:46	0:00:05	Wahpeton	Schrader_Allen		
	Substation	R	10	2022-02-20T08:46:24	2022-02-20T08:47:28	0:01:04	Crookston	Binstock_Scott	Equip Fail Substation	Regulator bypass switch arced across, it has been bypassed and will be fixed when possible
	Substation	R	10	2022-06-08T12:36:24	2022-06-08T13:48:18	1:11:54	Crookston	Binstock_Scott	Animal	Think a was a squirrell dog may have taken it
	Substation	R	10	2022-06-14T03:47:59	2022-06-14T03:48:06	0:00:07	Crookston	Binstock_Scott	Weather	
	Substation	R	10	2022-06-14T09:39:53	2022-06-14T09:40:00	0:00:07	Crookston	Binstock_Scott	Weather	
	Substation	R	10	2022-08-10T14:00:00	2022-08-10T15:06:15	1:06:15	Crookston	Binstock_Scott	Planned	planned outage redid disconnects in substation
	Substation	R	10	2022-08-13T00:16:34	2022-08-13T01:12:17	0:55:43	Crookston	Binstock_Scott	Equip Fail Conductor	Transmission line broke between Strandquist and New Folden
	Substation	BYR	569	2022-01-17T12:03:35	2022-01-17T12:04:00	0:00:25	Jamestown	Price_Chans	Equip Fail Insulator	Failed transmission insulator between Oberon and Sheyenne Jct.
	Substation	RBY	569	2022-03-14T11:35:43	2022-03-14T11:36:05	0:00:22	Jamestown	Price_Chans	Unknown	Devils Lake breaker 645 operated. SEL 10 miles. Cause unknown and not investigated.
	Substation	RBY	569	2022-05-17T10:27:06	2022-05-17T10:27:16	0:00:10	Jamestown	Price_Chans	Unknown	Devils Lake 645 operated. SEL 28.3 miles. Cause unknown and not investigated.
	Substation	BYR	568	2022-06-24T17:47:47	2022-06-24T18:53:33	1:05:46	Jamestown	Price_Chans	Equip Fail Insulator	Failed insulator north of Sheyenne Jct.

Equipment ID	Equipment Type	Phase(s)	Customers	Outage Start	Outage End	Duration	Customer Service Center	Region	Cause	Notes	
	Substation	BYR	569	2022-07-22T22:53:41	2022-07-22T22:54:13	0:00:32	Jamestown	Price_Chans	Weather	SEL 39.3 miles and .6 miles from Devils Lake breaker 645 due to large lightning storm, rain, hail and strong winds. Line not patrolled.	
	Feeder	RBY	183	2022-05-13T16:24:21	2022-05-13T16:39:05	0:14:44	Jamestown	Price_Chans	Vegetation		Tree in the line due to strong winds.
	Feeder	RBY	386	2022-08-23T15:11:56	2022-08-23T15:12:02	0:00:06	Jamestown	Price_Chans	Vehicle Accident		Tractor pulling large cultivator tore down conductors and slapped triplex into the primary. Line clearance unknown.
	Substation	BY	355	2022-01-17T12:03:42	2022-01-17T12:03:59	0:00:17	Jamestown	Price_Chans	Equip Fail Insulator	Failed transmission insulator between Oberon and Sheyenne Jct. Devils Lake breaker 645 operated. SEL 10 miles. Cause unknown and not investigated.	
	Substation	BY	355	2022-03-14T11:35:43	2022-03-14T11:36:02	0:00:19	Jamestown	Price_Chans	Unknown	Devils Lake 645 operated. SEL 28.3 miles. Cause unknown and not investigated.	
	Substation	BY	342	2022-05-17T10:27:05	2022-05-17T10:27:30	0:00:25	Jamestown	Price_Chans	Unknown	Devils Lake 645 operated. SEL 28.3 miles. Cause unknown and not investigated.	
	Substation	BY	343	2022-06-24T17:47:45	2022-06-24T18:53:40	1:05:55	Jamestown	Price_Chans	Equip Fail Insulator	Failed insulator north of Sheyenne Jct.	
	Substation	BY	354	2022-07-22T22:53:39	2022-07-22T22:54:19	0:00:40	Jamestown	Price_Chans	Weather	SEL 39.3 miles and .6 miles from Devils Lake breaker 645 due to large lightning storm, rain, hail and strong winds. Line not patrolled.	
	Feeder	R	145	2022-01-17T12:03:53	2022-01-17T12:03:59	0:00:06	Jamestown	Price_Chans	Equip Fail Insulator	Failed transmission insulator between Oberon and Sheyenne Jct. Devils Lake breaker 645 operated. SEL 10 miles. Cause unknown and not investigated.	
	Feeder	R	145	2022-03-14T11:35:46	2022-03-14T11:36:02	0:00:16	Jamestown	Price_Chans	Unknown	Devils Lake 645 operated. SEL 28.3 miles. Cause unknown and not investigated.	
	Feeder	R	158	2022-05-17T10:27:04	2022-05-17T10:27:11	0:00:07	Jamestown	Price_Chans	Unknown	Devils Lake 645 operated. SEL 28.3 miles. Cause unknown and not investigated.	
	Feeder	R	157	2022-06-24T17:47:45	2022-06-24T18:53:28	1:05:43	Jamestown	Price_Chans	Equip Fail Insulator	Failed insulator north of Sheyenne Jct.	
	Feeder	R	146	2022-07-22T22:53:40	2022-07-22T22:54:07	0:00:27	Jamestown	Price_Chans	Weather	SEL 39.3 miles and .6 miles from Devils Lake breaker 645 due to large lightning storm, rain, hail and strong winds. Line not patrolled.	
	Feeder	B	34	2022-02-01T15:12:26	2022-02-01T15:17:42	0:05:16	Jamestown	Price_Chans	Equip Fail Conductor	Spliced bad overhead service due to high winds. Only 1 customer impacted.	
	Feeder	B	34	2022-08-31T10:26:59	2022-08-31T11:39:19	1:12:20	Jamestown	Price_Chans	Itron meter voltage source failure	Overhead service replaced at 617 7th Ave S in New Rockford . Itron meter at this location.	
	Feeder	Y	33	2022-12-07T11:16:08	2022-12-07T11:16:24	0:00:16	Jamestown	Price_Chans	Itron meter voltage source failure	Booted AMI meter per customer request. Only 1 customer impacted.	
	Substation	RBY	16	2022-04-22T21:18:47	2022-04-22T21:18:57	0:00:10	Wahpeton	Grosgebauer_John	Weather	Storms with high winds in the whole area.	
	Substation	RBY	16	2022-04-22T23:19:54	2022-04-22T23:20:04	0:00:10	Wahpeton	Grosgebauer_John	Weather	Storms with high winds in the whole area.	
	Substation	RBY	16	2022-04-22T23:27:16	2022-04-22T23:27:26	0:00:10	Wahpeton	Grosgebauer_John	Weather	Storms with high winds in the whole area.	
	Substation	RBY	16	2022-04-23T00:34:12	2022-04-23T00:34:22	0:00:10	Wahpeton	Grosgebauer_John	Weather	Storms with high winds in the whole area.	
	Substation	RBY	16	2022-04-23T00:49:22	2022-04-23T00:49:32	0:00:10	Wahpeton	Grosgebauer_John	Weather	Storms with high winds in the whole area.	
	Substation	RBY	16	2022-04-23T00:50:49	2022-04-23T00:50:59	0:00:10	Wahpeton	Grosgebauer_John	Weather	Storms with high winds in the whole area.	
	Substation	RBY	16	2022-05-09T07:17:46	2022-05-09T07:18:13	0:00:27	Wahpeton	Grosgebauer_John	Weather	Strong thunderstorms with lots of lightning and heavy rain in the area.	
	Substation	RBY	16	2022-05-09T07:33:51	2022-05-09T07:34:01	0:00:10	Wahpeton	Grosgebauer_John	Weather	Strong thunderstorms with lots of lightning and heavy rain in the area.	
	Substation	RBY	16	2022-05-09T07:36:11	2022-05-09T07:39:56	0:03:45	Wahpeton	Grosgebauer_John	Weather	Strong thunderstorms with lots of lightning and heavy rain in the area.	
	Substation	RBY	16	2022-07-10T21:18:41	2022-07-10T21:27:42	0:09:01	Wahpeton	Grosgebauer_John	Weather	Strong storms in the area and 230 line tripped out.	
	Substation	RBY	16	2022-11-01T15:19:11	2022-11-01T16:02:43	0:43:32	Wahpeton	Grosgebauer_John	other	Smoke from a grass fire caused line to arc out.	
	Substation	RBY	16	2022-11-10T00:44:24	2022-11-10T00:44:31	0:00:07	Wahpeton	Grosgebauer_John	Weather	Ice on lines caused multiple outages	
	Substation	RBY	16	2022-11-10T00:45:28	2022-11-10T00:47:53	5:02:25	Wahpeton	Grosgebauer_John	Weather	Ice on lines caused multiple outages also had 9 polrd break off due to ice. JCH Audited 11/29/22	
	Substation	RBY	16	2022-11-10T06:19:41	2022-11-11T14:57:01	32:37:20	Wahpeton	Grosgebauer_John	Weather	Ice on lines caused multiple outages also had 9 polrd break off due to ice. JCH audited 11/29/22	
	Substation	BRY	63	2022-01-08T02:46:45	2022-01-08T02:47:22	0:00:37	Devils_Lake	Watkins_Shaun	Equip Fail Conductor	Yellow Phase cable faulted out of the warehouse sub which was seen on the transmission	
	Substation	R	23	2022-01-11T15:13:17	2022-01-11T15:13:25	0:00:08	Devils_Lake	Watkins_Shaun	Unknown	Unknown	
	Substation	BY	40	2022-01-11T15:13:26	2022-01-11T15:13:38	0:00:12	Devils_Lake	Watkins_Shaun	Unknown	Unknown	
	Substation	BRY	63	2022-03-14T22:56:35	2022-03-14T22:56:55	0:00:20	Devils_Lake	Watkins_Shaun	Unknown	Unknown	
	Substation	BRY	63	2022-03-19T16:20:12	2022-03-19T17:27:37	1:07:25	Devils_Lake	Watkins_Shaun	Equip Fail Arrester	Failed sub arrester.	
	Substation	BRY	63	2022-04-23T10:53:59	2022-04-23T10:54:22	0:00:23	Devils_Lake	Watkins_Shaun	Weather	Significant thunder storm/icing storm/extremely high wind event - lines slapping together, trees, icing galloping lines, broken ties, broken insulators, broken poles.	
	Substation	BRY	63	2022-05-12T08:23:29	2022-05-12T08:23:50	0:00:21	Devils_Lake	Watkins_Shaun	Weather	high winds, heavy rain and lightning	
	Substation	BRY	63	2022-05-12T18:00:22	2022-05-12T18:00:41	0:00:19	Devils_Lake	Watkins_Shaun	Weather	Storm system moved through with high wind, heavy rains and lightning.	
	Substation	BRY	63	2022-05-13T14:53:44	2022-05-13T14:54:24	0:00:40	Devils_Lake	Watkins_Shaun	Weather	50 - 60 mile an hour winds causing long span to slap together	
	Substation	BRY	63	2022-05-13T16:09:18	2022-05-13T16:09:39	0:00:21	Devils_Lake	Watkins_Shaun	Weather	50 - 60 mile an hour winds causing long span to slap together	

Equipment ID	Equipment Type	Phase(s)	Customers	Outage Start	Outage End	Duration	Customer Service Center	Region	Cause	Notes
	Substation	BRY	63	2022-05-13T16:19:48	2022-05-13T16:20:08	0:00:20	Devils_Lake	Watkins_Shaun	Weather	50 - 60 mile an hour winds causing long span to slap together.
	Substation	BRY	63	2022-05-13T17:06:46	2022-05-13T17:07:53	0:01:07	Devils_Lake	Watkins_Shaun	Weather	50 - 60 mile an hour winds causing long span to slap together.
	Substation	BRY	63	2022-05-25T15:02:34	2022-05-25T15:02:51	0:00:17	Devils_Lake	Watkins_Shaun	Unknown	Unknown
	Substation	BRY	62	2022-06-19T23:56:03	2022-06-19T23:56:27	0:00:24	Devils_Lake	Watkins_Shaun	Weather	Storm moved through area.
	Substation	BRY	63	2022-06-24T16:52:51	2022-06-24T16:53:14	0:00:23	Devils_Lake	Watkins_Shaun	Weather	Severe storm moved through. Lightning struck 4 poles.
	Substation	BRY	63	2022-07-23T03:27:12	2022-07-23T05:23:49	1:56:37	Devils_Lake	Watkins_Shaun	Lightning	Lightning struck 41.6kv during storm burning pole top off.
	Substation	BRY	63	2022-08-18T03:22:11	2022-08-18T03:22:34	0:00:23	Devils_Lake	Watkins_Shaun	Weather	Severe storms moved through the area
	Substation	BRY	63	2022-09-04T07:48:25	2022-09-04T07:48:44	0:00:19	Devils_Lake	Watkins_Shaun	Unknown	Unknown
	Substation	BRY	63	2022-12-23T04:58:32	2022-12-23T04:58:53	0:00:21	Devils_Lake	Watkins_Shaun	Weather	Blizzard conditions combined with icing and high winds caused excess of 100 floaters on different line sections
	Substation	BRY	63	2022-12-23T09:01:12	2022-12-23T09:01:33	0:00:21	Devils_Lake	Watkins_Shaun	Weather	Blizzard conditions combined with icing and high winds caused excess of 100 floaters on different line sections
	Substation	BRY	63	2022-12-23T10:01:14	2022-12-23T10:01:36	0:00:22	Devils_Lake	Watkins_Shaun	Weather	Blizzard conditions combined with icing and high winds caused excess of 100 floaters on different line sections
	Substation	BRY	63	2022-12-23T10:25:03	2022-12-23T10:25:25	0:00:22	Devils_Lake	Watkins_Shaun	Weather	Blizzard conditions combined with icing and high winds caused excess of 100 floaters on different line sections
	Substation	BRY	63	2022-12-23T10:39:25	2022-12-23T10:40:24	0:00:59	Devils_Lake	Watkins_Shaun	Weather	Blizzard conditions combined with icing and high winds caused excess of 100 floaters on different line sections
	Substation	BRY	63	2022-12-23T10:43:55	2022-12-23T10:44:16	0:00:21	Devils_Lake	Watkins_Shaun	Weather	Blizzard conditions combined with icing and high winds caused excess of 100 floaters on different line sections
	FeederSection	R	15	2022-05-09T05:44:12	2022-05-09T05:44:19	0:00:07	Wahpeton	Wahpeton	Weather	Strong storms with lightning in the area.
	FeederSection	R	15	2022-06-14T05:38:15	2022-06-14T05:38:22	0:00:07	Wahpeton	Wahpeton	Weather	Strong storms with lightning in the area.
	FeederSection	R	15	2022-06-25T07:18:29	2022-06-25T07:18:36	0:00:07	Wahpeton	Wahpeton	Animal	Dead Squirrel on riser pole
	Substation	R	25	2022-01-13T11:46:01	2022-01-13T11:55:11	0:09:10	Jamestown	Powers_Steve	Unknown	Unknown distribution fault caused Peaking Plant breaker 815 to operate causing Jamestown SE Jct motor-operated switch 781 to open which caused transmission issues between Jamestown and Edgeley load pockets. Cause unknown upon investigation.
	Substation	R	25	2022-01-13T13:48:57	2022-01-13T13:50:36	0:01:39	Jamestown	Powers_Steve	Unknown	Unknown distribution fault caused Peaking Plant breaker 815 to operate causing Jamestown SE Jct motor-operated switch 781 to open which caused transmission issues between Jamestown and Edgeley load pockets. Cause unknown upon investigation.
	Substation	R	25	2022-01-13T15:15:08	2022-01-13T15:18:23	0:03:15	Jamestown	Powers_Steve	Unknown	Unknown distribution fault caused Peaking Plant breaker 815 to operate causing Jamestown SE Jct motor-operated switch 781 to open which caused transmission issues between Jamestown and Edgeley load pockets. Cause unknown upon investigation.
	Substation	R	25	2022-04-22T22:52:54	2022-04-22T22:53:15	0:00:21	Jamestown	Powers_Steve	Weather	Storms in the area.
	Substation	R	25	2022-04-23T00:10:21	2022-04-23T00:11:28	0:01:07	Jamestown	Powers_Steve	Weather	Storms in the area.
	Substation	R	25	2022-05-13T12:18:40	2022-05-13T12:19:03	0:00:23	Jamestown	Powers_Steve	Equip Fail Insulator	Failed insulator caused pole to burn and break off at the crossarm bolt 3 poles south of Dakota Valley Millarton switch 753.
	Substation	R	25	2022-06-14T05:43:54	2022-06-14T05:45:00	0:01:06	Jamestown	Powers_Steve	Weather	Storm in the area.
	Substation	R	25	2022-06-20T16:38:05	2022-06-20T18:28:24	1:50:19	Jamestown	Powers_Steve	Unknown	Investigated and cause not known. SEL 35.12 from Jamestown and 12.6 from Edgeley.
	Substation	R	25	2022-06-29T23:29:20	2022-06-30T00:17:32	0:48:12	Jamestown	Powers_Steve	Vegetation	Storm in the area caused trees, approximately 10 miles north of Edgeley, to contact transmission line which opened the breaker.
	Substation	R	25	2022-07-07T06:21:40	2022-07-07T06:21:55	0:00:15	Jamestown	Powers_Steve	Weather	Storms in the area.
	Substation	R	25	2022-08-28T07:15:24	2022-08-28T07:15:38	0:00:14	Jamestown	Powers_Steve	Weather	Lightning storm in the area. Line patrolled per SEL data, but nothing found.
	Substation	R	25	2022-11-06T11:46:55	2022-11-06T11:53:56	0:07:01	Jamestown	Powers_Steve	Equip Fail Insulator	Broken center phase insulator between Jamestown Radio Station sub and Millarton-Montpelier Sub.
	Substation	R	25	2022-11-09T20:56:27	2022-11-09T20:57:28	0:01:01	Jamestown	Powers_Steve	Weather	Freezing rain and windy conditions.
	Substation	R	25	2022-11-09T21:38:16	2022-11-09T21:41:41	0:03:25	Jamestown	Powers_Steve	Weather	Freezing rain and windy conditions.
	Substation	BRY	39	2022-06-13T20:44:50	2022-06-13T20:45:02	0:00:12	Rugby	Larson_Paul	Weather	Stormy weather with high winds traveled through the CSC causing blinks
	Substation	BRY	39	2022-07-09T05:07:47	2022-07-09T05:08:10	0:00:23	Rugby	Larson_Paul	Weather	Storms were rolling through the area. rain, high winds, lightning.
	Substation	BRY	39	2022-07-10T04:24:24	2022-07-10T04:55:51	0:31:27	Rugby	Larson_Paul	Weather	Storms rolled through the area causing damage throughout its path. rain, lightning and high winds
	Substation	RBY	39	2022-07-10T04:58:32	2022-07-10T04:58:55	0:00:23	Rugby	Larson_Paul	Weather	Storms rolled through the area causing damage throughout its path. rain, lightning and high winds
	Substation	RBY	39	2022-07-26T00:52:14	2022-07-26T00:52:37	0:00:23	Rugby	Larson_Paul	Weather	Storm cell moved through the area.

Equipment ID	Equipment Type	Phase(s)	Customers	Outage Start	Outage End	Duration	Customer Service Center	Region	Cause	Notes
Substation	BRY		38	2022-07-30T23:07:25	2022-07-30T23:08:28	0:01:03	Rugby	Larson_Paul	Unknown	CPEC Voltaire Neal Station 185 operated. SEL 17.7 miles. WAPA not confident that the SEL is correct. Patrolled, nothing found.
Substation	BRY		39	2022-12-16T04:17:06	2022-12-16T05:26:41	1:09:35	Rugby	Larson_Paul	Weather	Icing conditions high winds/blizzard
Substation	BRY		39	2022-12-16T09:43:04	2022-12-16T09:44:37	0:01:33	Rugby	Larson_Paul	Weather	Icing conditions high winds/blizzard
Feeder	RBY		352	2022-04-07T14:45:26	2022-04-07T15:06:50	0:21:24	Jamestown	Grosgebauer_John	Equip Fail Insulator	Broken insulator 1 pole west of the south GOAB on the transmission line south of Oakes.
Feeder	RBY		352	2022-04-23T01:25:13	2022-04-23T01:25:20	0:00:07	Jamestown	Grosgebauer_John	Weather	Storms in the area.
Feeder	RBY		352	2022-05-12T18:53:00	2022-05-12T18:53:07	0:00:07	Jamestown	Grosgebauer_John	Weather	Storms in the area.
Feeder	RBY		352	2022-06-29T23:06:10	2022-06-29T23:06:16	0:00:06	Jamestown	Grosgebauer_John	Vegetation	Storm in the area caused trees, approximately 10 miles north of Edgeley, to contact transmission line which opened the breaker.
Feeder	RBY		352	2022-10-04T12:08:49	2022-10-04T12:08:57	0:00:08	Jamestown	Grosgebauer_John	Animal	Squirrel contact on riser pole blew cutout fuse on the east side of town.
Substation	BR		633	2022-04-07T14:45:07	2022-04-07T15:06:46	0:21:39	Jamestown	Grosgebauer_John	Equip Fail Insulator	Broken insulator 1 pole west of the south GOAB on the transmission line south of Oakes.
Substation	BR		636	2022-04-23T01:25:16	2022-04-23T01:25:36	0:00:20	Jamestown	Grosgebauer_John	Weather	Storms in the area.
Substation	BR		630	2022-05-12T18:52:54	2022-05-12T18:53:20	0:00:26	Jamestown	Grosgebauer_John	Weather	Storms in the area.
Feeder	Y		118	2022-04-07T14:45:12	2022-04-07T15:06:43	0:21:31	Jamestown	Grosgebauer_John	Equip Fail Insulator	Broken insulator 1 pole west of the south GOAB on the transmission line south of Oakes.
Feeder	Y		118	2022-04-23T01:25:26	2022-04-23T01:25:33	0:00:07	Jamestown	Grosgebauer_John	Weather	Storms in the area.
Feeder	Y		118	2022-05-12T18:53:12	2022-05-12T18:53:20	0:00:08	Jamestown	Grosgebauer_John	Weather	Storms in the area.
Feeder	RBY		334	2022-10-03T19:38:06	2022-10-03T19:38:13	0:00:07	Jamestown	Grosgebauer_John	Animal	Raccoon contact caused blown cutout fuse for overhead transformer.
Feeder	B		96	2022-09-07T08:57:57	2022-09-07T08:58:15	0:00:18	Jamestown	Grosgebauer_John	other	Meter disconnected for non-pay.
Feeder	Y		159	2022-04-07T14:45:09	2022-04-07T15:06:34	0:21:25	Jamestown	Grosgebauer_John	Equip Fail Insulator	Broken insulator 1 pole west of the south GOAB on the transmission line south of Oakes.
Feeder	Y		159	2022-04-23T01:25:16	2022-04-23T01:25:22	0:00:06	Jamestown	Grosgebauer_John	Weather	Storms in the area.
Feeder	Y		159	2022-05-12T18:53:02	2022-05-12T18:53:09	0:00:07	Jamestown	Grosgebauer_John	Weather	Storms in the area.
Feeder	RBY		368	2022-07-18T23:28:06	2022-07-18T23:28:13	0:00:07	Jamestown	Grosgebauer_John	Vegetation	Tree on the line.
Feeder	RBY		368	2022-07-19T02:14:51	2022-07-19T02:14:59	0:00:08	Jamestown	Grosgebauer_John	Vegetation	Tree on the line. OCR operated when power was restored.
FeederSection	Y		1	2022-05-23T18:14:11	2022-05-23T18:14:17	0:00:06	Devils_Lake	Bruce_Jody	Lightning	Storm with lightning moved through the area.
FeederSection	BR		3	2022-06-24T16:24:13	2022-06-24T16:24:23	0:00:10	Devils_Lake	Bruce_Jody	Weather	Severe weather moved through the area. Wind and Lightning.
FeederSection	BR		2	2022-07-14T11:04:49	2022-07-14T11:05:00	0:00:11	Devils_Lake	Bruce_Jody	Unknown	Unknown
FeederSection	Y		1	2022-07-19T04:04:15	2022-07-19T04:04:20	0:00:05	Devils_Lake	Bruce_Jody	Weather	Thunder storm and heavy rain moved through the area.
FeederSection	Y		1	2022-07-19T04:06:55	2022-07-19T04:07:00	0:00:05	Devils_Lake	Bruce_Jody	Weather	Thunder storm and heavy rain moved through the area.
FeederSection	Y		1	2022-07-19T04:07:40	2022-07-19T04:07:43	0:00:03	Devils_Lake	Bruce_Jody	Weather	Thunder storm and heavy rain moved through the area.
FeederSection	B		1	2022-07-22T22:19:58	2022-07-22T22:20:04	0:00:06	Devils_Lake	Bruce_Jody	Weather	Storm moving through - high winds and lightning
FeederSection	Y		1	2022-08-26T14:15:47	2022-08-26T14:21:13	0:05:26	Devils_Lake	Bruce_Jody	Unknown	Uknown
FeederSection	Y		1	2022-09-08T10:07:55	2022-09-08T11:18:57	1:11:02	Devils_Lake	Bruce_Jody	Planned	Cutng over new ug primary
FeederSection	B		1	2022-12-11T14:19:52	2022-12-11T14:19:58	0:00:06	Devils_Lake	Bruce_Jody	Equip Fail Insulator	Floater due to high winds
Substation	BR		59	2022-07-01T10:51:00	2022-07-01T12:05:12	1:14:12	Jamestown	Erickson_Joe	Bird	Bird contact blew high side fuse in Oriska sub.
Substation	BR		59	2022-10-05T16:17:03	2022-10-05T16:17:13	0:00:10	Jamestown	Erickson_Joe	Equip Fail Substation	Lightning strike blew high side fuse in Fingal Jct Sub, which also burned up several distribution insulators in the sub. Another high side disconnect spring failed. Replacing all 3 high side disconnects.
Substation	BRY		85	2022-11-09T22:49:27	2022-11-09T23:56:56	1:07:29	Jamestown	Erickson_Joe	Weather	Broken ties caused by galloping lines due to freezing rain and windy conditions.
Substation	BRY		86	2022-12-07T17:44:10	2022-12-07T18:30:35	0:46:25	Jamestown	Erickson_Joe	Equip Fail Conductor	Failed splice on transmission between Buffalo 345 sub and Minnkota Tower City tap.
Substation	BRY		86	2022-12-13T11:44:20	2022-12-13T11:44:41	0:00:21	Jamestown	Erickson_Joe	Equip Fail Pole	Broken transmission pole in a slough between Oriska Sub and Fingal Jct Sub.
Substation	BRY		86	2022-12-13T11:46:55	2022-12-13T13:39:32	1:52:37	Jamestown	Erickson_Joe	Equip Fail Pole	Broken transmission pole in a slough between Oriska Sub and Fingal Jct Sub.
Substation	RBY		19	2022-02-02T08:53:16	2022-02-02T08:53:28	0:00:12	Devils_Lake	Hetletved_Kyle	Equip Fail Conductor	Broken conductor on 41.6kv line. Abnormal switching caused to much load causing breaker to operate several times.
Substation	RBY		19	2022-02-02T09:30:14	2022-02-02T09:30:21	0:00:07	Devils_Lake	Hetletved_Kyle	Equip Fail Conductor	Broken conductor on 41.6kv line.
Substation	RBY		19	2022-04-27T17:23:07	2022-04-27T17:23:11	0:00:04	Devils_Lake	Hetletved_Kyle		
Substation	RBY		19	2022-05-08T17:45:25	2022-05-08T17:46:24	0:00:59	Devils_Lake	Hetletved_Kyle	Vegetation	Tree blew into line from storm.
Substation	RBY		19	2022-06-24T14:18:08	2022-06-24T14:18:15	0:00:07	Devils_Lake	Hetletved_Kyle	Weather	Severe weather moved through the area. Wind and Lightning.
Substation	RBY		19	2022-07-22T23:36:48	2022-07-23T01:57:46	2:20:58	Devils_Lake	Hetletved_Kyle	Vegetation	due to high winds/storm trees broke 41.6kv conductor. JCH Audited 7/28/22
Substation	RBY		19	2022-07-26T02:11:39	2022-07-26T02:12:43	0:01:04	Devils_Lake	Hetletved_Kyle	Weather	Storm cell moved through
Substation	RBY		19	2022-08-14T17:42:08	2022-08-14T17:42:13	0:00:05	Devils_Lake	Hetletved_Kyle	Bird	Birds took high side fuses in the sub.
Substation	RBY		19	2022-08-14T19:26:27	2022-08-14T20:32:39	1:06:12	Devils_Lake	Hetletved_Kyle	Bird	Birds took high side fuses in the sub.
Substation	RBY		19	2022-08-15T10:43:33	2022-08-15T10:43:41	0:00:08	Devils_Lake	Hetletved_Kyle	Weather	Storm moved through area.

Equipment ID	Equipment Type	Phase(s)	Customers	Outage Start	Outage End	Duration	Customer Service Center	Region	Cause	Notes
	Substation	RBY	19	2022-08-18T04:24:47	2022-08-18T05:22:08	0:57:21	Devils_Lake	Hetletved_Kyle	Weather	Blown fuses in sub and town due to storms
	Substation	RBY	19	2022-08-18T08:57:54	2022-08-18T10:33:33	1:35:39	Devils_Lake	Hetletved_Kyle	Weather	Blown fuses in sub and town due to storms
	Substation	RBY	19	2022-08-18T20:44:26	2022-08-18T21:54:33	1:10:07	Devils_Lake	Hetletved_Kyle	Weather	Blown fuses in sub and town due to storms
	Substation	RBY	19	2022-08-29T10:07:17	2022-08-29T10:07:21	0:00:04	Devils_Lake	Hetletved_Kyle	Unknown	Uknown
	Feeder	RBY	113	2022-04-19T10:12:48	2022-04-19T11:48:07	1:35:19	Jamestown	Atkinson_Tom	Equip Fail Insulator	Broken insulator approximately 1 mile south of the Galesburg/Clifford sub.
	Feeder	RBY	113	2022-04-22T22:49:24	2022-04-22T22:49:30	0:00:06	Jamestown	Atkinson_Tom	Weather	Storms in the area.
	Feeder	RBY	113	2022-06-14T06:43:33	2022-06-14T06:43:40	0:00:07	Jamestown	Atkinson_Tom	Weather	Storm in the area.
	Feeder	RBY	113	2022-07-10T07:56:09	2022-07-10T07:56:16	0:00:07	Jamestown	Atkinson_Tom	Weather	Storms with strong winds, rain, lightning.
	Feeder	RBY	113	2022-07-13T08:27:18	2022-07-13T08:27:24	0:00:06	Jamestown	Atkinson_Tom	Equip Fail Cutout	Failed cutout by Mewes Farms east of Colgate.
	Feeder	RBY	113	2022-07-21T19:06:27	2022-07-21T19:06:32	0:00:05	Jamestown	Atkinson_Tom	Weather	Storm in the area.
	Feeder	RBY	113	2022-11-10T09:34:41	2022-11-10T16:52:26	7:17:45	Jamestown	Atkinson_Tom	Weather	Galloping lines caused by freezing rain and windy conditions. JCH Audited 11/29/22
	Feeder	RBY	113	2022-11-10T18:08:32	2022-11-10T18:08:44	0:00:12	Jamestown	Atkinson_Tom	Weather	Galloping lines caused by freezing rain and windy conditions.
	Feeder	RBY	113	2022-11-17T12:58:46	2022-11-17T15:39:08	2:40:22	Jamestown	Atkinson_Tom	Planned	Replaced Page Jct switch and pole. JCH Audited 11/29/2022
	Substation	RBY	715	2022-04-23T18:01:25	2022-04-23T20:15:52	2:14:27	Rugby	Lee_James	Weather	Severe Weather including High winds, Freezing rain, Snow and rain caused Broken poles, switches, Xarms, wire and insulators leading to multiple power outages throughout the area. JCH audited 4/30/22
	Substation	RBY	715	2022-04-23T22:29:15	2022-04-23T23:50:58	1:21:43	Rugby	Lee_James	Weather	Severe Weather including High winds, Freezing rain, Snow and rain caused Broken poles, switches, Xarms, wire and insulators leading to multiple power outages throughout the area.
	Substation	RBY	715	2022-04-24T08:47:10	2022-04-24T08:47:18	0:00:08	Rugby	Lee_James	Weather	Severe Weather including High winds, Freezing rain, Snow and rain caused Broken poles, switches, Xarms, wire and insulators leading to multiple power outages throughout the area.
	Substation	RBY	715	2022-04-24T08:47:59	2022-04-24T08:48:05	0:00:06	Rugby	Lee_James	Weather	Severe Weather including High winds, Freezing rain, Snow and rain caused Broken poles, switches, Xarms, wire and insulators leading to multiple power outages throughout the area.
	Substation	RBY	715	2022-04-24T12:00:33	2022-04-24T12:01:03	0:00:30	Rugby	Lee_James	Weather	Severe Weather including High winds, Freezing rain, Snow and rain caused Broken poles, switches, Xarms, wire and insulators leading to multiple power outages throughout the area.
	Substation	RBY	715	2022-04-24T12:02:03	2022-04-24T12:02:15	0:00:12	Rugby	Lee_James	Weather	Severe Weather including High winds, Freezing rain, Snow and rain caused Broken poles, switches, Xarms, wire and insulators leading to multiple power outages throughout the area.
	Substation	RBY	715	2022-04-24T12:03:15	2022-04-24T12:03:51	0:00:36	Rugby	Lee_James	Weather	Severe Weather including High winds, Freezing rain, Snow and rain caused Broken poles, switches, Xarms, wire and insulators leading to multiple power outages throughout the area.
	Substation	RBY	715	2022-04-24T12:50:22	2022-04-24T14:06:28	1:16:06	Rugby	Lee_James	Weather	Severe Weather including High winds, Freezing rain, Snow and rain caused Broken poles, switches, Xarms, wire and insulators leading to multiple power outages throughout the area.
	Substation	RBY	715	2022-04-24T14:50:09	2022-04-24T14:50:14	0:00:05	Rugby	Lee_James	Weather	Severe Weather including High winds, Freezing rain, Snow and rain caused Broken poles, switches, Xarms, wire and insulators leading to multiple power outages throughout the area.
	Substation	RBY	715	2022-04-24T15:53:28	2022-04-24T15:53:34	0:00:06	Rugby	Lee_James	Weather	Severe Weather including High winds, Freezing rain, Snow and rain caused Broken poles, switches, Xarms, wire and insulators leading to multiple power outages throughout the area.
	Substation	RBY	715	2022-04-24T17:47:24	2022-04-24T17:47:29	0:00:05	Rugby	Lee_James	Weather	Severe Weather including High winds, Freezing rain, Snow and rain caused Broken poles, switches, Xarms, wire and insulators leading to multiple power outages throughout the area.
	Substation	RBY	715	2022-05-07T19:19:10	2022-05-07T19:24:45	0:05:35	Rugby	Lee_James	Weather	Ice storm caused insulator's, Crossarms and pole damage.
	Substation	RBY	715	2022-06-24T17:05:31	2022-06-24T17:05:38	0:00:07	Rugby	Lee_James	Unknown	SRep could not find an exact reason for the blink.
	Substation	RBY	715	2022-06-24T17:45:29	2022-06-24T17:45:37	0:00:08	Rugby	Lee_James	Unknown	SRep could not find an exact reason for the blink.
	Substation	RBY	715	2022-07-09T08:33:46	2022-07-09T09:03:16	0:29:30	Rugby	Lee_James	Weather	Storms were rolling through the area. rain, high winds, lightning. Line Patrol revealed no known cause, but did notice Hawks East of Max ND
	Substation	RBY	715	2022-08-24T13:43:33	2022-08-24T13:43:41	0:00:08	Rugby	Lee_James	Unknown	Floater
	Substation	RBY	715	2022-12-19T11:41:07	2022-12-19T11:44:22	0:03:15	Rugby	Lee_James	Equip Fail Insulator	
	Feeder	RBY	455	2022-04-07T06:59:24	2022-04-07T06:59:32	0:00:08	Rugby	Lee_James	Unknown	SRep could not find a reason for blink
	Feeder	RBY	455	2022-04-23T20:58:06	2022-04-23T20:58:13	0:00:07	Rugby	Lee_James	Weather	Severe Weather including High winds, Freezing rain, Snow and rain caused Broken poles, switches, Xarms, wire and insulators leading to multiple power outages throughout the area.
	Feeder	RBY	455	2022-04-24T00:47:03	2022-04-24T00:47:09	0:00:06	Rugby	Lee_James	Weather	Severe Weather including High winds, Freezing rain, Snow and rain caused Broken poles, switches, Xarms, wire and insulators leading to multiple power outages throughout the area.

Equipment ID	Equipment Type	Phase(s)	Customers	Outage Start	Outage End	Duration	Customer Service Center	Region	Cause	Notes
	Feeder	RBY	455	2022-04-24T01:07:11	2022-04-24T01:07:17	0:00:06	Rugby	Lee_James	Weather	Severe Weather including High winds, Freezing rain, Snow and rain caused Broken poles, switches, Xarms, wire and insulators leading to multiple power outages throughout the area.
	Feeder	RBY	455	2022-04-24T01:23:10	2022-04-24T01:23:17	0:00:07	Rugby	Lee_James	Weather	Severe Weather including High winds, Freezing rain, Snow and rain caused Broken poles, switches, Xarms, wire and insulators leading to multiple power outages throughout the area.
	Feeder	RBY	455	2022-04-24T01:25:12	2022-04-24T01:25:19	0:00:07	Rugby	Lee_James	Weather	Severe Weather including High winds, Freezing rain, Snow and rain caused Broken poles, switches, Xarms, wire and insulators leading to multiple power outages throughout the area.
	Feeder	RBY	455	2022-04-24T01:31:21	2022-04-24T01:31:28	0:00:07	Rugby	Lee_James	Weather	Severe Weather including High winds, Freezing rain, Snow and rain caused Broken poles, switches, Xarms, wire and insulators leading to multiple power outages throughout the area.
	Feeder	RBY	455	2022-04-24T01:38:04	2022-04-24T01:38:11	0:00:07	Rugby	Lee_James	Weather	Severe Weather including High winds, Freezing rain, Snow and rain caused Broken poles, switches, Xarms, wire and insulators leading to multiple power outages throughout the area.
	Feeder	RBY	455	2022-04-24T01:40:39	2022-04-24T01:41:04	0:00:25	Rugby	Lee_James	Weather	Severe Weather including High winds, Freezing rain, Snow and rain caused Broken poles, switches, Xarms, wire and insulators leading to multiple power outages throughout the area.
	Feeder	RBY	455	2022-04-24T01:54:40	2022-04-24T01:54:47	0:00:07	Rugby	Lee_James	Weather	Severe Weather including High winds, Freezing rain, Snow and rain caused Broken poles, switches, Xarms, wire and insulators leading to multiple power outages throughout the area.
	Feeder	RBY	455	2022-04-24T03:41:21	2022-04-24T03:41:28	0:00:07	Rugby	Lee_James	Weather	Severe Weather including High winds, Freezing rain, Snow and rain caused Broken poles, switches, Xarms, wire and insulators leading to multiple power outages throughout the area.
	Feeder	RBY	455	2022-04-24T03:54:02	2022-04-24T03:54:08	0:00:06	Rugby	Lee_James	Weather	Severe Weather including High winds, Freezing rain, Snow and rain caused Broken poles, switches, Xarms, wire and insulators leading to multiple power outages throughout the area.
	Feeder	RBY	455	2022-04-24T04:04:53	2022-04-24T04:04:59	0:00:06	Rugby	Lee_James	Weather	Severe Weather including High winds, Freezing rain, Snow and rain caused Broken poles, switches, Xarms, wire and insulators leading to multiple power outages throughout the area.
	Feeder	RBY	455	2022-04-24T04:14:40	2022-04-24T04:14:47	0:00:07	Rugby	Lee_James	Weather	Severe Weather including High winds, Freezing rain, Snow and rain caused Broken poles, switches, Xarms, wire and insulators leading to multiple power outages throughout the area.
	Substation	BRY	95	2022-03-13T15:15:17	2022-03-13T15:15:34	0:00:17	Devils_Lake	Watkins_Shaun	Unknown	Unknown
	Substation	BRY	95	2022-03-14T22:56:42	2022-03-14T22:56:57	0:00:15	Devils_Lake	Watkins_Shaun	Unknown	Unknown
	Substation	BRY	95	2022-03-15T11:32:36	2022-03-15T11:32:51	0:00:15	Devils_Lake	Watkins_Shaun	Unknown	Unknown
	Substation	BRY	94	2022-04-23T05:56:13	2022-04-23T05:56:35	0:00:22	Devils_Lake	Watkins_Shaun	Weather	Significant thunder storm/ice storm/extremely high wind event - lines slapping together, trees, icing galloping lines, broken ties, broken insulators, broken poles.
	Substation	BRY	95	2022-05-09T02:33:05	2022-05-09T02:33:29	0:00:24	Devils_Lake	Watkins_Shaun	Weather	Storm moved through area
	Substation	BR	66	2022-05-11T20:53:17	2022-05-11T20:53:24	0:00:07	Devils_Lake	Watkins_Shaun	Unknown	Unknown
	Substation	Y	29	2022-05-11T20:53:33	2022-05-11T20:53:39	0:00:06	Devils_Lake	Watkins_Shaun	Unknown	Unknown
	Substation	BRY	95	2022-06-15T06:32:58	2022-06-15T06:33:24	0:00:26	Devils_Lake	Watkins_Shaun	Equip Fail Pole	Broken pole in store that moved through
	Substation	BRY	95	2022-06-24T17:28:10	2022-06-24T17:28:35	0:00:25	Devils_Lake	Watkins_Shaun	Weather	Severe storm moved through. Lightning struck 4 poles
	Substation	BR	66	2022-06-24T18:12:15	2022-06-24T18:12:21	0:00:06	Devils_Lake	Watkins_Shaun	Lightning	Storm through the area. 4 poles took shots of lightning. 3 by McVilleville and one by Fort Totten
	Substation	Y	29	2022-06-24T18:12:33	2022-06-24T18:12:39	0:00:06	Devils_Lake	Watkins_Shaun	Lightning	Storm through the area. 4 poles took shots of lightning. 3 by McVilleville and one by Fort Totten
	Substation	BRY	95	2022-07-15T15:16:37	2022-07-15T15:16:46	0:00:09	Devils_Lake	Watkins_Shaun	Unknown	Unknown
	Substation	BRY	95	2022-07-22T23:38:42	2022-07-22T23:38:50	0:00:08	Devils_Lake	Watkins_Shaun	Weather	Storm moving through - high winds and lightning
	Substation	BRY	160	2022-07-22T23:47:12	2022-07-23T13:25:17	13:38:05	Devils_Lake	Watkins_Shaun	Weather	Town is a wreck - high winds caused trees down everywhere - broken poles/conductors/services. JCH Audited 7/28/22
	Substation	BRY	95	2022-08-18T07:58:23	2022-08-18T08:10:11	0:11:48	Devils_Lake	Watkins_Shaun	Weather	Severe storms moved through the area
	Substation	BRY	95	2022-08-30T18:54:19	2022-08-30T18:54:46	0:00:27	Devils_Lake	Watkins_Shaun	Unknown	Unknown
	Substation	B	36	2022-09-04T07:48:18	2022-09-04T07:48:26	0:00:08	Devils_Lake	Watkins_Shaun	Unknown	Unknown
	Substation	RY	59	2022-09-04T07:48:30	2022-09-04T07:48:47	0:00:17	Devils_Lake	Watkins_Shaun	Unknown	Unknown
	Substation	RBY	95	2022-12-15T11:46:48	2022-12-15T11:47:13	0:00:25	Devils_Lake	Watkins_Shaun	Weather	Icing - blizzard conditions high winds
	Substation	BRY	283	2022-06-23T23:43:45	2022-06-23T23:45:15	0:01:30	Crookston	Hillukka_Warren		
	Substation	BRY	283	2022-06-24T19:43:47	2022-06-24T19:44:56	0:01:09	Crookston	Hillukka_Warren		
	Substation	BRY	283	2022-07-16T05:52:50	2022-07-16T05:53:36	0:00:46	Crookston	Hillukka_Warren		
	Substation	BRY	283	2022-07-19T15:37:35	2022-07-19T15:38:52	0:01:17	Crookston	Hillukka_Warren		
	Substation	BRY	283	2022-12-13T23:13:53	2022-12-13T23:19:30	0:05:37	Crookston	Hillukka_Warren		

Equipment ID	Equipment Type	Phase(s)	Customers	Outage Start	Outage End	Duration	Customer Service Center	Region	Cause	Notes
	Feeder	BRY	180	2022-04-30T01:02:16	2022-04-30T03:59:14	2:56:58	Crookston	Hillukka_Warren	Unknown	Minnkota, breaker opened, line patrolled and nothing found, breaker was tried and held, customer counts should correct. Pembina east feeder and west feeder should have been out the same amount of time. Customer count should be correct
	Feeder	BRY	93	2022-05-12T20:15:50	2022-05-12T20:16:09	0:00:19	Crookston	Hillukka_Warren	Unknown	Line patrolled nothing found, plans are to install fault indicators to help find future issues
	Feeder	BRY	93	2022-05-30T23:29:02	2022-05-30T23:29:25	0:00:23	Crookston	Hillukka_Warren	Unknown	Line patrolled and nothing found, will be putting fault indicators on line in the near future. DLS
	Feeder	BRY	93	2022-06-14T10:33:08	2022-06-14T10:34:13	0:01:05	Crookston	Hillukka_Warren		
	Feeder	BRY	93	2022-06-18T06:17:18	2022-06-18T06:17:39	0:00:21	Crookston	Hillukka_Warren		
	Feeder	RBY	190	2022-04-30T01:05:09	2022-04-30T01:12:42	0:07:33	Crookston	Hillukka_Warren	Unknown	Minnkota, breaker opened, line patrolled and nothing found, breaker was tried and held, customer counts should correct. Pembina east feeder and west feeder should have been out the same amount of time. Customer count should be correct
	Substation	RBY	26	2022-03-03T08:29:18	2022-03-03T10:36:45	2:07:27	Devils_Lake	Eriksson_Lehmann_Gardner	Planned	Changing Regulators in the sub. JCH audited 3/24/22
	Substation	RBY	26	2022-05-12T21:17:14	2022-05-12T21:17:20	0:00:06	Devils_Lake	Eriksson_Lehmann_Gardner	Weather	Storm system moved through with high wind, heavy rains and lightning.
	Substation	RBY	26	2022-05-13T10:55:37	2022-05-13T10:55:46	0:00:09	Devils_Lake	Eriksson_Lehmann_Gardner		
	Substation	RBY	26	2022-05-13T12:38:47	2022-05-13T12:38:54	0:00:07	Devils_Lake	Eriksson_Lehmann_Gardner		
	Substation	RBY	26	2022-05-13T12:40:32	2022-05-13T12:40:40	0:00:08	Devils_Lake	Eriksson_Lehmann_Gardner		
	Substation	RBY	26	2022-05-13T12:43:58	2022-05-13T13:33:22	0:49:24	Devils_Lake	Eriksson_Lehmann_Gardner		
	Substation	RBY	26	2022-05-13T14:15:13	2022-05-16T12:59:47	70:44:34	Devils_Lake	Eriksson_Lehmann_Gardner	Itron meter failure	Fuse blown. Audited 6/2/22. JCH re-audited to pull out of calcs. RDJ 11/30/22
	Substation	R	11	2022-05-19T09:00:19	2022-05-19T09:49:52	0:49:33	Devils_Lake	Eriksson_Lehmann_Gardner	Equip Fail Fuse unknown cause	
	Substation	RBY	26	2022-06-20T03:51:05	2022-06-20T03:51:14	0:00:09	Devils_Lake	Eriksson_Lehmann_Gardner	Weather	Fuse blew - nothing found
	Substation	RBY	26	2022-07-10T06:07:19	2022-07-10T06:07:42	0:00:23	Devils_Lake	Eriksson_Lehmann_Gardner	Equip Fail Pole	Storm moved through the area.
	Substation	RBY	26	2022-07-10T06:22:19	2022-07-10T07:44:37	1:22:18	Devils_Lake	Eriksson_Lehmann_Gardner	Equip Fail Pole	Four broken transmission poles with underbuild due to storm
	Substation	RBY	26	2022-07-12T08:31:15	2022-07-12T09:06:07	0:34:52	Devils_Lake	Eriksson_Lehmann_Gardner	Planned	Four broken transmission poles with underbuild due to storm
	Substation	R	11	2022-07-13T12:36:49	2022-07-13T13:26:12	0:49:23	Devils_Lake	Eriksson_Lehmann_Gardner	Equip Fail Arrester	Planned outage for regulator changeout.
	Substation	RBY	26	2022-07-22T22:47:46	2022-07-22T22:47:51	0:00:05	Devils_Lake	Eriksson_Lehmann_Gardner	Weather	Failed lightning arrester
	Substation	RBY	26	2022-07-23T00:37:38	2022-07-23T01:19:53	0:42:15	Devils_Lake	Eriksson_Lehmann_Gardner	Weather	Storm moving through - high winds and lightning
	Substation	RBY	26	2022-08-13T14:03:20	2022-08-13T14:48:16	0:44:56	Devils_Lake	Eriksson_Lehmann_Gardner	Equip Fail Fuse unknown cause	Storm took trees down through out town breaking pole and conductor/services.
	Substation	RBY	26	2022-08-13T14:55:54	2022-08-13T14:59:26	0:03:32	Devils_Lake	Eriksson_Lehmann_Gardner	Equip Fail Fuse unknown cause	High side fuses blown
	Substation	RBY	26	2022-08-13T15:07:23	2022-08-13T15:09:56	0:02:33	Devils_Lake	Eriksson_Lehmann_Gardner	Equip Fail Fuse unknown cause	High side fuses blown
	Substation	RBY	26	2022-08-13T15:16:46	2022-08-13T15:20:47	0:04:01	Devils_Lake	Eriksson_Lehmann_Gardner	Equip Fail Fuse unknown cause	High side fuses blown
	Substation	RBY	26	2022-08-13T15:27:08	2022-08-13T15:57:04	0:29:56	Devils_Lake	Eriksson_Lehmann_Gardner	Equip Fail Fuse unknown cause	High side fuses blown
	Substation	RBY	26	2022-08-15T10:30:14	2022-08-15T10:30:18	0:00:04	Devils_Lake	Eriksson_Lehmann_Gardner	Weather	Storm moved through area.
	Substation	RBY	26	2022-09-14T17:58:35	2022-09-14T18:26:47	0:28:12	Devils_Lake	Eriksson_Lehmann_Gardner	Equip Fail Pole	Pole broken on 41.6kv line
	Substation	RBY	26	2022-09-15T14:37:02	2022-09-15T14:37:13	0:00:11	Devils_Lake	Eriksson_Lehmann_Gardner	Unknown	Unknown
	Substation	RBY	179	2022-01-08T02:46:47	2022-01-08T02:47:12	0:00:25	Devils_Lake	Devils_Lake	Equip Fail Conductor	Yellow Phase cable faulted out of the warehouse sub which was seen on the transmission
	Substation	RBY	179	2022-01-11T15:13:18	2022-01-11T15:13:27	0:00:09	Devils_Lake	Devils_Lake	Unknown	Unknown
	Substation	RBY	179	2022-03-14T22:56:38	2022-03-14T22:56:45	0:00:07	Devils_Lake	Devils_Lake	Unknown	Unknown
	Substation	RBY	179	2022-03-19T16:20:12	2022-03-19T17:25:58	1:05:46	Devils_Lake	Devils_Lake	Equip Fail Arrester	Failed sub arrester.
	Substation	RBY	179	2022-04-23T10:54:04	2022-04-23T10:54:11	0:00:07	Devils_Lake	Devils_Lake	Weather	Significant thunder storm/ice storm/extremely high wind event - lines slapping together, trees, icing galloping lines, broken ties, broken insulators, broken poles.
	Substation	RBY	179	2022-05-12T08:23:32	2022-05-12T08:23:40	0:00:08	Devils_Lake	Devils_Lake	Weather	Storm system moved through with high wind, heavy rains and lightning.
	Substation	RBY	179	2022-05-12T18:00:22	2022-05-12T18:00:31	0:00:09	Devils_Lake	Devils_Lake	Weather	Storm system moved through with high wind, heavy rains and lightning.
	Substation	RBY	179	2022-05-13T14:53:44	2022-05-13T14:54:14	0:00:30	Devils_Lake	Devils_Lake	Weather	50 - 60 mile an hour winds causing long span to slap together
	Substation	RBY	179	2022-05-13T16:09:22	2022-05-13T16:09:29	0:00:07	Devils_Lake	Devils_Lake	Weather	50 - 60 mile an hour winds causing long span to slap together
	Substation	RBY	179	2022-05-13T16:19:50	2022-05-13T16:19:58	0:00:08	Devils_Lake	Devils_Lake	Weather	50 - 60 mile an hour winds causing long span to slap together.
	Substation	RBY	179	2022-05-13T17:06:48	2022-05-13T17:07:44	0:00:56	Devils_Lake	Devils_Lake	Weather	50 - 60 mile an hour winds causing long span to slap together.
	Substation	RBY	179	2022-05-13T18:37:06	2022-05-13T18:42:55	0:05:49	Devils_Lake	Devils_Lake	Weather	50 - 60 mile an hour winds causing long span to slap together.
	Substation	RBY	179	2022-05-25T15:02:33	2022-05-25T15:02:41	0:00:08	Devils_Lake	Devils_Lake	Unknown	Unknown
	Substation	RBY	179	2022-06-19T23:56:15	2022-06-19T23:56:23	0:00:08	Devils_Lake	Devils_Lake	Weather	Storm moved through area.

Equipment ID	Equipment Type	Phase(s)	Customers	Outage Start	Outage End	Duration	Customer Service Center	Region	Cause	Notes
	Substation	RBY	179	2022-06-24T16:53:02	2022-06-24T16:53:09	0:00:07	Devils_Lake	Devils_Lake	Weather	Severe storm moved through. Lightning struck 4 poles
	Substation	RBY	179	2022-07-23T03:27:18	2022-07-23T05:23:43	1:56:25	Devils_Lake	Devils_Lake	Lightning	Lightning struck 41.6kv during storm burning pole top off.
	Substation	RBY	179	2022-08-17T05:59:30	2022-08-17T08:09:47	2:10:17	Devils_Lake	Devils_Lake	Planned	Replace disconnects in the sub
	Substation	RBY	179	2022-08-18T03:22:14	2022-08-18T03:22:23	0:00:09	Devils_Lake	Devils_Lake	Weather	Severe storms moved through the area
	Substation	RBY	179	2022-09-04T07:48:28	2022-09-04T07:48:33	0:00:05	Devils_Lake	Devils_Lake	Unknown	Unknown
	Substation	RBY	179	2022-12-23T04:58:34	2022-12-23T04:58:41	0:00:07	Devils_Lake	Devils_Lake	Weather	Blizzard conditions combined with icing and high winds caused excess of 100 floaters on different line sections
	Substation	RBY	179	2022-12-23T09:01:15	2022-12-23T09:01:22	0:00:07	Devils_Lake	Devils_Lake	Weather	Blizzard conditions combined with icing and high winds caused excess of 100 floaters on different line sections
	Substation	RBY	179	2022-12-23T10:01:17	2022-12-23T10:01:24	0:00:07	Devils_Lake	Devils_Lake	Weather	Blizzard conditions combined with icing and high winds caused excess of 100 floaters on different line sections
	Substation	RBY	179	2022-12-23T10:25:05	2022-12-23T10:25:13	0:00:08	Devils_Lake	Devils_Lake	Weather	Blizzard conditions combined with icing and high winds caused excess of 100 floaters on different line sections
	Substation	RBY	179	2022-12-23T10:39:28	2022-12-23T10:40:13	0:00:45	Devils_Lake	Devils_Lake	Weather	Blizzard conditions combined with icing and high winds caused excess of 100 floaters on different line sections
	Substation	RBY	179	2022-12-23T10:43:57	2022-12-23T10:44:04	0:00:07	Devils_Lake	Devils_Lake	Weather	Blizzard conditions combined with icing and high winds caused excess of 100 floaters on different line sections
	Substation	R	1	2022-01-08T02:46:51	2022-01-08T02:47:19	0:00:28	Devils_Lake	Devils_Lake	Equip Fail Conductor	Yellow Phase cable faulted out of the warehouse sub which was seen on the transmission
	Substation	R	1	2022-01-11T15:13:26	2022-01-11T15:13:34	0:00:08	Devils_Lake	Devils_Lake	Unknown	Unknown
	Substation	R	1	2022-03-14T22:56:42	2022-03-14T22:56:52	0:00:10	Devils_Lake	Devils_Lake	Unknown	Unknown
	Substation	R	1	2022-03-19T16:20:20	2022-03-19T17:27:33	1:07:13	Devils_Lake	Devils_Lake	Equip Fail Arrester	Failed sub arrester.
	Substation	R	1	2022-03-31T11:43:09	2022-03-31T15:23:29	3:40:20	Devils_Lake	Devils_Lake	Equip Fail Other	Cross arm bolt came out tipping conductors to contact pole. Significant thunder storm/ice storm/extremely high wind event - lines slapping together, trees, icing galloping lines, broken ties, broken insulators, broken poles.
	Substation	R	1	2022-04-23T10:54:10	2022-04-23T10:54:18	0:00:08	Devils_Lake	Devils_Lake	Weather	high winds, heavy rain and lightning
	Substation	R	1	2022-05-12T08:23:32	2022-05-12T08:23:46	0:00:14	Devils_Lake	Devils_Lake	Weather	high winds, heavy rain and lightning
	Substation	R	1	2022-05-12T18:00:22	2022-05-12T18:00:38	0:00:16	Devils_Lake	Devils_Lake	Weather	Storm system moved through with high wind, heavy rains and lightning.
	Substation	R	1	2022-05-13T14:53:44	2022-05-13T14:54:20	0:00:36	Devils_Lake	Devils_Lake	Weather	50 - 60 mile an hour winds causing long span to slap together
	Substation	R	1	2022-05-13T16:09:29	2022-05-13T16:09:35	0:00:06	Devils_Lake	Devils_Lake	Weather	50 - 60 mile an hour winds causing long span to slap together.
	Substation	R	1	2022-05-13T16:19:57	2022-05-13T16:20:05	0:00:08	Devils_Lake	Devils_Lake	Weather	50 - 60 mile an hour winds causing long span to slap together.
	Substation	R	1	2022-05-13T17:06:56	2022-05-13T17:07:51	0:00:55	Devils_Lake	Devils_Lake	Weather	50 - 60 mile an hour winds causing long span to slap together.
	Substation	R	1	2022-05-25T15:02:40	2022-05-25T15:02:48	0:00:08	Devils_Lake	Devils_Lake	Unknown	Unknown
	Substation	R	1	2022-06-19T23:56:22	2022-06-19T23:56:29	0:00:07	Devils_Lake	Devils_Lake	Weather	Storm moved through area.
	Substation	R	1	2022-06-24T16:52:55	2022-06-24T16:53:15	0:00:20	Devils_Lake	Devils_Lake	Weather	Severe storm moved through. Lightning struck 4 poles
	Substation	R	1	2022-07-15T07:58:33	2022-07-15T10:56:36	2:58:03	Devils_Lake	Devils_Lake	Planned	Planned outage for Nodak to remove there line off our poles. JCH Audited 7/28/22
	Substation	R	1	2022-07-23T03:27:18	2022-07-23T05:23:50	1:56:32	Devils_Lake	Devils_Lake	Lightning	Lightning struck 41.6kv during storm burning pole top off.
	Substation	R	1	2022-07-28T08:48:05	2022-07-28T19:30:15	10:42:10	Devils_Lake	Devils_Lake	Planned	Cutover of new 41.6kv ug
	Substation	R	1	2022-08-09T14:16:50	2022-08-09T19:52:02	5:35:12	Devils_Lake	Devils_Lake	Planned	Planned outage
	Substation	R	1	2022-08-18T03:22:22	2022-08-18T03:22:32	0:00:10	Devils_Lake	Devils_Lake	Weather	Severe storms moved through the area
	Substation	R	1	2022-09-04T07:48:33	2022-09-04T07:48:41	0:00:08	Devils_Lake	Devils_Lake	Unknown	Unknown
	Substation	R	1	2022-12-23T04:58:41	2022-12-23T04:58:50	0:00:09	Devils_Lake	Devils_Lake	Weather	Blizzard conditions combined with icing and high winds caused excess of 100 floaters on different line sections
	Substation	R	1	2022-12-23T09:01:24	2022-12-23T09:01:31	0:00:07	Devils_Lake	Devils_Lake	Weather	Blizzard conditions combined with icing and high winds caused excess of 100 floaters on different line sections
	Substation	R	1	2022-12-23T10:01:25	2022-12-23T10:01:33	0:00:08	Devils_Lake	Devils_Lake	Weather	Blizzard conditions combined with icing and high winds caused excess of 100 floaters on different line sections
	Substation	R	1	2022-12-23T10:25:14	2022-12-23T10:25:22	0:00:08	Devils_Lake	Devils_Lake	Weather	Blizzard conditions combined with icing and high winds caused excess of 100 floaters on different line sections
	Substation	R	1	2022-12-23T10:39:36	2022-12-23T10:40:21	0:00:45	Devils_Lake	Devils_Lake	Weather	Blizzard conditions combined with icing and high winds caused excess of 100 floaters on different line sections
	Substation	R	1	2022-12-23T10:44:05	2022-12-23T10:44:14	0:00:09	Devils_Lake	Devils_Lake	Weather	Blizzard conditions combined with icing and high winds caused excess of 100 floaters on different line sections
	Substation	R	1	2022-12-23T11:14:59	2022-12-24T09:25:01	22:10:02	Devils_Lake	Devils_Lake	Weather	Blizzard conditions combined with icing and high winds caused excess of 100 floaters on different line sections
	Substation	BR	32	2022-01-17T01:29:28	2022-01-17T01:34:17	0:04:49	Rugby	Hetletved_Klay	Unknown	SysOp was able to close in line and had SRep go out the next day to try and find reason for outage. SRep could not find a reason and line has held since original outage.
	Substation	BR	32	2022-04-10T08:19:29	2022-04-10T08:19:37	0:00:08	Rugby	Hetletved_Klay	Unknown	SRep could not find a reason for blink
	Substation	BR	32	2022-04-23T15:27:29	2022-04-23T15:27:52	0:00:23	Rugby	Hetletved_Klay	Weather	Severe Weather including High winds, Freezing rain, Snow and rain caused Broken poles, switches, Xarms, wire and insulators leading to multiple power outages throughout the area.

Equipment ID	Equipment Type	Phase(s)	Customers	Outage Start	Outage End	Duration	Customer Service Center	Region	Cause	Notes
	Substation	BR	32	2022-04-24T07:30:23	2022-04-24T09:49:27	2:19:04	Rugby	Hetletved_Klay	Weather	Severe Weather including High winds, Freezing rain, Snow and rain caused Broken poles, switches, Xarms, wire and insulators leading to multiple power outages throughout the area. JCH audited 4/30/22
	Substation	RB	32	2022-04-25T11:13:33	2022-04-25T11:55:20	0:41:47	Rugby	Hetletved_Klay	Weather	Severe Weather including High winds, Freezing rain, Snow and rain caused Broken poles, switches, Xarms, wire and insulators leading to multiple power outages throughout the area.
	Substation	BR	32	2022-05-04T14:01:38	2022-05-04T14:03:05	0:01:27	Rugby	Hetletved_Klay	Equip Fail Insulator	broken insulator caused floater
	Substation	BR	32	2022-05-13T08:14:51	2022-05-13T10:05:37	1:50:46	Rugby	Hetletved_Klay	Animal	Squire blew a fuse
	Substation	BR	32	2022-12-12T20:38:30	2022-12-12T22:00:24	1:21:54	Rugby	Hetletved_Klay	Equip Fail Insulator	Insulator tracked across burning pole off
	Substation	BR	32	2022-12-17T16:16:26	2022-12-17T16:16:39	0:00:13	Rugby	Hetletved_Klay	Weather	Icing conditions high winds/blizzard
	Substation	BR	32	2022-12-22T07:08:40	2022-12-22T09:37:00	2:28:20	Rugby	Hetletved_Klay	Weather	Blizzard - high winds, ice and snow, broken phase, guy wires and other issues
	Substation	BR	32	2022-12-25T07:26:31	2022-12-25T07:26:44	0:00:13	Rugby	Hetletved_Klay	Weather	Blizzard - high winds, ice and snow, broken phase, guy wires and other issues
	Substation	BR	32	2022-12-25T15:29:09	2022-12-25T15:29:36	0:00:27	Rugby	Hetletved_Klay	Weather	Blizzard - high winds ice and snow - broken phase, guy wires...
	Substation	BRY	6	2022-04-14T18:02:01	2022-04-14T18:31:01	0:29:00	Devils_Lake	Bruce_Jody	Equip Fail Insulator	Floater
	Substation	BRY	6	2022-04-24T12:55:09	2022-04-24T13:01:08	0:05:59	Devils_Lake	Bruce_Jody	Weather	Significant thunder storm/ice storm/extremely high wind event - lines slapping together, trees, icing galloping lines, broken ties, broken insulators, broken poles.
	Substation	BRY	6	2022-04-24T13:03:02	2022-04-24T14:25:11	1:22:09	Devils_Lake	Bruce_Jody	Weather	Significant thunder storm/ice storm/extremely high wind event - lines slapping together, trees, icing galloping lines, broken ties, broken insulators, broken poles.
	Substation	BRY	6	2022-05-29T09:54:33	2022-05-29T11:50:24	1:55:51	Devils_Lake	Bruce_Jody	Equip Fail Insulator	Insulator tracked across burning cross arm off.
	Substation	BRY	6	2022-06-14T01:15:59	2022-06-14T01:16:19	0:00:20	Devils_Lake	Bruce_Jody	Weather	Severe storm moved through the area.
	Substation	BRY	6	2022-07-09T21:20:56	2022-07-09T21:21:17	0:00:21	Devils_Lake	Bruce_Jody	Unknown	Unknown
	Substation	RBY	6	2022-07-15T20:18:14	2022-07-15T20:19:15	0:01:01	Devils_Lake	Bruce_Jody	Unknown	Unknown
	Substation	BRY	6	2022-07-16T09:29:54	2022-07-16T11:20:26	1:50:32	Devils_Lake	Bruce_Jody	Equip Fail Insulator	Insulator failed burning top of pole off.
	Substation	BRY	6	2022-07-18T03:20:39	2022-07-18T03:21:46	0:01:07	Devils_Lake	Bruce_Jody	Weather	Weather system moved through with wind and lightning
	Substation	BRY	6	2022-07-18T03:31:49	2022-07-18T03:32:08	0:00:19	Devils_Lake	Bruce_Jody	Weather	Weather system moved through with wind and lightning
	Substation	BRY	6	2022-07-18T03:39:32	2022-07-18T03:39:52	0:00:20	Devils_Lake	Bruce_Jody	Weather	Weather system moved through with wind and lightning
	Substation	BRY	6	2022-07-19T15:55:19	2022-07-19T15:55:39	0:00:20	Devils_Lake	Bruce_Jody	Weather	Thunder storm and heavy rain moved through the area.
	Substation	BRY	6	2022-07-19T15:56:50	2022-07-19T15:57:10	0:00:20	Devils_Lake	Bruce_Jody	Weather	Thunder storm and heavy rain moved through the area.
	Substation	BRY	6	2022-07-22T23:38:46	2022-07-23T00:43:43	1:04:57	Devils_Lake	Bruce_Jody	Lightning	Lightning struck Minnkota 115kv substation that feeds Langdon. Issues with breaker
	Substation	BRY	6	2022-08-05T07:43:27	2022-08-05T07:43:47	0:00:20	Devils_Lake	Bruce_Jody	Unknown	Unknown
	Substation	BRY	6	2022-08-18T01:12:23	2022-08-18T01:13:27	0:01:04	Devils_Lake	Bruce_Jody	Weather	Severe storms moved through the area
	Substation	BRY	6	2022-10-24T02:53:57	2022-10-24T02:54:59	0:01:02	Devils_Lake	Bruce_Jody	Weather	Storm system moved through the area
	Substation	BRY	6	2022-10-24T02:57:34	2022-10-24T02:58:01	0:00:27	Devils_Lake	Bruce_Jody	Weather	Storm system moved through the area
	Substation	BRY	6	2022-11-08T08:57:42	2022-11-08T08:58:58	0:01:16	Devils_Lake	Bruce_Jody	Unknown	Unknown
	Substation	Y	2	2022-12-11T14:19:33	2022-12-11T14:19:58	0:00:25	Devils_Lake	Bruce_Jody	Equip Fail Insulator	Floater due to high winds
	Substation	BRY	6	2022-12-12T10:00:25	2022-12-12T10:01:17	0:00:52	Devils_Lake	Bruce_Jody	Equip Fail Substation	Breaker failed in substation
	Substation	B	48	2022-05-12T20:20:20	2022-05-12T20:20:27	0:00:07	Jamestown	Erickson_Joe	Weather	Storms in the area.
	Substation	B	48	2022-06-08T09:23:59	2022-06-08T12:59:54	3:35:55	Jamestown	Erickson_Joe	Planned	Planned outage to replace substation regulators and replace a transmission pole coming out of the sub. JCH audited 7/28/22
	Substation	B	48	2022-06-14T06:03:53	2022-06-14T06:04:06	0:00:13	Jamestown	Erickson_Joe	Weather	Storm in the area.
	Substation	B	48	2022-06-20T18:46:25	2022-06-20T18:47:35	0:01:10	Jamestown	Erickson_Joe	Weather	Storms in the area.
	Substation	B	48	2022-08-19T18:57:44	2022-08-19T18:58:09	0:00:25	Jamestown	Erickson_Joe	Unknown	SEL indicated between Hannaford and Walum. Line patrolled but no cause found. There was lightning and rain in the area.
	Feeder	B	21	2022-09-15T11:19:53	2022-09-15T15:32:51	4:12:58	Jamestown	Erickson_Joe	other	Contractor dug into 3A~ underground primary approximately 2 miles east of Jorrissen Farm. JCH Audited 9/27/2022
	Substation	BRY	2	2022-02-20T01:21:01	2022-02-20T01:21:15	0:00:14	Devils_Lake	Paul_Larson	Equip Fail Conductor	Broken conductor on the 12.5kv line by Mylo
	Substation	BRY	2	2022-02-20T02:31:36	2022-02-20T02:31:53	0:00:17	Devils_Lake	Paul_Larson	Equip Fail Conductor	Broken conductor on the 12.5kv line by Mylo
	Substation	Y	0	2022-02-20T03:34:28	2022-02-20T03:34:35	0:00:07	Devils_Lake	Paul_Larson	Equip Fail Conductor	Broken conductor on the 12.5kv line by Mylo. JCH audited 2/28/22
	Substation	Y	0	2022-02-20T05:10:03	2022-02-20T05:10:12	0:00:09	Devils_Lake	Paul_Larson	Equip Fail Conductor	Broken conductor on the 12.5kv line by Mylo. JCH audited 2/28/22
	Substation	BRY	2	2022-04-24T09:08:39	2022-04-24T09:23:20	0:14:41	Devils_Lake	Paul_Larson	Weather	Significant thunder storm/ice storm/extremely high wind event - lines slapping together, trees, icing galloping lines, broken ties, broken insulators, broken poles.
	Substation	BRY	2	2022-07-19T03:26:23	2022-07-19T03:31:39	0:05:16	Devils_Lake	Paul_Larson	Weather	Thunderstorm and heavy rain moved through the area.
	Substation	BRY	2	2022-07-22T22:16:01	2022-07-22T22:17:18	0:01:17	Devils_Lake	Paul_Larson	Weather	Storm moving through - high winds and lightning
	Substation	BRY	2	2022-07-26T00:36:50	2022-07-26T00:37:15	0:00:25	Devils_Lake	Paul_Larson	Weather	Storm cell moved through the area
	Substation	RBY	2	2022-08-18T14:28:47	2022-08-18T14:29:51	0:01:04	Devils_Lake	Paul_Larson	Weather	Severe storms moved through the area

Equipment ID	Equipment Type	Phase(s)	Customers	Outage Start	Outage End	Duration	Customer Service Center	Region	Cause	Notes
	Substation	BRY	2	2022-10-19T11:38:45	2022-10-19T11:39:10	0:00:25	Devils_Lake	Paul_Larson	Equip Fail Fuse unknown cause	Fuse
	Substation	BRY	2	2022-10-24T03:47:38	2022-10-24T03:47:58	0:00:20	Devils_Lake	Paul_Larson	Weather	Storm system moved through the area
	Substation	BRY	2	2022-12-11T16:43:15	2022-12-11T16:43:37	0:00:22	Devils_Lake	Paul_Larson	Equip Fail Insulator	Floater due to high winds
	Substation	BRY	2	2022-12-15T14:33:01	2022-12-15T14:33:24	0:00:23	Devils_Lake	Paul_Larson	Weather	icing - blizzard with high winds
	Substation	BRY	2	2022-12-15T14:43:30	2022-12-15T14:43:52	0:00:22	Devils_Lake	Paul_Larson	Weather	icing - blizzard with high winds
	Substation	BRY	2	2022-12-15T14:52:00	2022-12-15T14:52:22	0:00:22	Devils_Lake	Paul_Larson	Weather	icing - blizzard with high winds
	Substation	BRY	2	2022-12-15T15:01:58	2022-12-15T15:02:17	0:00:19	Devils_Lake	Paul_Larson	Weather	Icing on lines with high winds - blizzard
	Substation	RY	1	2022-12-26T10:59:12	2022-12-26T10:59:34	0:00:22	Devils_Lake	Paul_Larson	Weather	Blizzard conditions combined with icing and high winds caused excess of 100 floaters on different line sections
	Substation	RY	1	2022-12-26T11:02:50	2022-12-26T11:39:15	0:36:25	Devils_Lake	Paul_Larson	Weather	Blizzard conditions combined with icing and high winds caused excess of 100 floaters on different line sections
	Substation	RY	1	2022-12-26T14:13:58	2022-12-26T14:38:38	0:24:40	Devils_Lake	Paul_Larson	Weather	Blizzard conditions combined with icing and high winds caused excess of 100 floaters on different line sections
	Feeder	RBY	249	2022-02-01T02:19:36	2022-02-01T02:19:44	0:00:08	Devils_Lake	Bruce_Jody	Weather	Rain ice blizzard conditions
	Feeder	RBY	249	2022-04-24T08:14:39	2022-04-24T08:14:46	0:00:07	Devils_Lake	Bruce_Jody	Weather	Significant ice storm event
	Feeder	RBY	249	2022-04-24T08:55:59	2022-04-24T12:25:18	3:29:19	Devils_Lake	Bruce_Jody	Weather	Significant ice storm event
	Feeder	RBY	249	2022-04-24T12:48:10	2022-04-24T12:48:17	0:00:07	Devils_Lake	Bruce_Jody	Weather	Significant thunder storm/ice storm/extremely high wind event - lines slapping together, trees, icing galloping lines, broken ties, broken insulators, broken poles.
	Feeder	RBY	249	2022-04-24T12:55:29	2022-04-24T12:55:34	0:00:05	Devils_Lake	Bruce_Jody	Weather	Significant thunder storm/ice storm/extremely high wind event - lines slapping together, trees, icing galloping lines, broken ties, broken insulators, broken poles.
	Feeder	RBY	249	2022-04-24T13:00:40	2022-04-24T13:00:46	0:00:06	Devils_Lake	Bruce_Jody	Weather	Significant thunder storm/ice storm/extremely high wind event - lines slapping together, trees, icing galloping lines, broken ties, broken insulators, broken poles.
	Feeder	RBY	249	2022-04-24T13:04:02	2022-04-24T13:04:39	0:00:37	Devils_Lake	Bruce_Jody	Weather	Significant thunder storm/ice storm/extremely high wind event - lines slapping together, trees, icing galloping lines, broken ties, broken insulators, broken poles.
	Feeder	RBY	249	2022-04-24T13:06:34	2022-04-25T08:39:20	19:32:46	Devils_Lake	Bruce_Jody	Itron meter voltage source failure	insulators, broken poles. Only 1 customer per Damian, JCH audited 4/27/22
	Feeder	RBY	249	2022-05-07T19:32:45	2022-05-07T19:33:45	0:01:00	Devils_Lake	Bruce_Jody	Unknown	Unknown
	Feeder	RBY	249	2022-06-23T19:08:42	2022-06-23T19:08:48	0:00:06	Devils_Lake	Bruce_Jody	Unknown	Unknown
	Feeder	RBY	249	2022-07-10T21:48:12	2022-07-10T21:48:18	0:00:06	Devils_Lake	Bruce_Jody	Unknown	Unknown
	Feeder	RBY	249	2022-07-19T03:26:27	2022-07-19T03:31:24	0:04:57	Devils_Lake	Bruce_Jody	Weather	Thunder storm and heavy rain moved through the area.
	Feeder	RBY	249	2022-07-22T22:16:01	2022-07-22T22:17:03	0:01:02	Devils_Lake	Bruce_Jody	Weather	Storm moving through - high winds and lightning
	Feeder	RBY	249	2022-07-26T00:36:52	2022-07-26T00:36:59	0:00:07	Devils_Lake	Bruce_Jody	Weather	Storm cell moved through the area
	Feeder	RBY	249	2022-08-18T14:28:44	2022-08-18T14:28:51	0:00:07	Devils_Lake	Bruce_Jody	Weather	Severe storms moved through the area
	Feeder	RBY	249	2022-10-24T03:47:35	2022-10-24T03:47:43	0:00:08	Devils_Lake	Bruce_Jody	Weather	Storm system moved through the area
	Feeder	RBY	249	2022-12-11T16:43:15	2022-12-11T16:43:22	0:00:07	Devils_Lake	Bruce_Jody	Equip Fail Insulator	Floater due to high winds
	Feeder	RBY	249	2022-12-15T14:33:03	2022-12-15T14:33:09	0:00:06	Devils_Lake	Bruce_Jody	Weather	icing - blizzard with high winds
	Feeder	RBY	249	2022-12-15T14:43:30	2022-12-15T14:43:37	0:00:07	Devils_Lake	Bruce_Jody	Weather	icing - blizzard with high winds
	Feeder	RBY	249	2022-12-15T14:52:01	2022-12-15T14:52:07	0:00:06	Devils_Lake	Bruce_Jody	Weather	icing - blizzard with high winds
	Feeder	RBY	249	2022-12-15T15:01:56	2022-12-15T15:02:03	0:00:07	Devils_Lake	Bruce_Jody	Weather	Icing on lines with high winds - blizzard
	Feeder	RBY	249	2022-12-26T10:59:13	2022-12-26T10:59:23	0:00:10	Devils_Lake	Bruce_Jody	Weather	Blizzard conditions combined with icing and high winds caused excess of 100 floaters on different line sections
	Feeder	RBY	249	2022-12-26T11:02:49	2022-12-26T11:39:04	0:36:15	Devils_Lake	Bruce_Jody	Weather	Blizzard conditions combined with icing and high winds caused excess of 100 floaters on different line sections
	Feeder	RBY	249	2022-12-26T14:13:57	2022-12-26T14:38:27	0:24:30	Devils_Lake	Bruce_Jody	Weather	Blizzard conditions combined with icing and high winds caused excess of 100 floaters on different line sections
	Feeder	RBY	249	2022-12-26T14:38:27	2022-12-26T14:38:27	0:00:00	Devils_Lake	Bruce_Jody	Weather	Significant thunder storm/ice storm/extremely high wind event - lines slapping together, trees, icing galloping lines, broken ties, broken insulators, broken poles.
	Substation	RBY	817	2022-04-24T09:08:49	2022-04-24T09:28:01	0:19:12	Devils_Lake	Bruce_Jody	Weather	insulators, broken poles.
	Substation	RBY	817	2022-07-19T03:26:31	2022-07-19T03:31:35	0:05:04	Devils_Lake	Bruce_Jody	Weather	Thunder storm and heavy rain moved through the area.
	Substation	RBY	817	2022-07-22T22:16:04	2022-07-22T22:17:14	0:01:10	Devils_Lake	Bruce_Jody	Weather	Storm moving through - high winds and lightning
	Substation	RBY	817	2022-07-26T00:36:59	2022-07-26T00:37:10	0:00:11	Devils_Lake	Bruce_Jody	Weather	Storm cell moved through the area
	Substation	RBY	817	2022-08-18T14:28:55	2022-08-18T14:29:01	0:00:06	Devils_Lake	Bruce_Jody	Weather	Severe storms moved through the area
	Substation	RBY	817	2022-10-24T03:47:45	2022-10-24T03:47:53	0:00:08	Devils_Lake	Bruce_Jody	Weather	Storm system moved through the area
	Substation	RBY	817	2022-12-11T16:43:24	2022-12-11T16:43:33	0:00:09	Devils_Lake	Bruce_Jody	Equip Fail Insulator	Floater due to high winds
	Substation	RBY	817	2022-12-15T14:33:10	2022-12-15T14:33:20	0:00:10	Devils_Lake	Bruce_Jody	Weather	icing - blizzard with high winds
	Substation	RBY	817	2022-12-15T14:43:39	2022-12-15T14:43:47	0:00:08	Devils_Lake	Bruce_Jody	Weather	icing - blizzard with high winds
	Substation	RBY	817	2022-12-15T14:52:10	2022-12-15T14:52:17	0:00:07	Devils_Lake	Bruce_Jody	Weather	Icing on lines with high winds - blizzard
	Substation	RBY	817	2022-12-15T15:02:05	2022-12-15T15:02:13	0:00:08	Devils_Lake	Bruce_Jody	Weather	Icing on lines with high winds - blizzard

Equipment ID	Equipment Type	Phase(s)	Customers	Outage Start	Outage End	Duration	Customer Service Center	Region	Cause	Notes
	Substation	RBY	817	2022-12-26T10:59:25	2022-12-26T10:59:34	0:00:09	Devils_Lake	Bruce_Jody	Weather	Blizzard conditions combined with icing and high winds caused excess of 100 floaters on different line sections
	Substation	RBY	817	2022-12-26T11:02:58	2022-12-26T11:39:14	0:36:16	Devils_Lake	Bruce_Jody	Weather	Blizzard conditions combined with icing and high winds caused excess of 100 floaters on different line sections
	Substation	RBY	817	2022-12-26T14:14:07	2022-12-26T14:38:37	0:24:30	Devils_Lake	Bruce_Jody	Weather	Blizzard conditions combined with icing and high winds caused excess of 100 floaters on different line sections
	Feeder	RBY	551	2022-01-24T09:45:20	2022-01-24T09:45:28	0:00:08	Devils_Lake	Bruce_Jody	Vehicle Accident	City dump truck left box in the air catching cable tv wire breaking our pole off.
	Feeder	RBY	551	2022-02-03T22:00:49	2022-02-03T22:05:45	0:04:56	Devils_Lake	Bruce_Jody	Equip Fail Transformer	Failed Transformer took the breaker
	Feeder	RBY	551	2022-02-03T22:48:07	2022-02-03T22:52:20	0:04:13	Devils_Lake	Bruce_Jody	Equip Fail Transformer	Failed Transformer took the breaker
	Feeder	RBY	551	2022-04-22T10:53:38	2022-04-22T10:53:45	0:00:07	Devils_Lake	Bruce_Jody	Weather	Significant thunder storm/ice storm/extremely high wind event - lines slapping together, trees, icing galloping lines, broken ties, broken insulators, broken poles.
	Feeder	RBY	551	2022-06-21T06:53:52	2022-06-21T06:54:04	0:00:12	Devils_Lake	Bruce_Jody	Unknown	unknown
	Feeder	RBY	551	2022-07-05T20:36:21	2022-07-05T20:36:27	0:00:06	Devils_Lake	Bruce_Jody	Unknown	Unknown
	Feeder	RBY	551	2022-07-27T06:52:32	2022-07-27T06:52:39	0:00:07	Devils_Lake	Bruce_Jody	Weather	Storm cell moved through
	Feeder	RBY	551	2022-08-20T09:13:52	2022-08-20T09:32:58	0:19:06	Devils_Lake	Bruce_Jody	Unknown	Unknown
	Feeder	RBY	551	2022-08-29T17:55:08	2022-08-29T17:55:15	0:00:07	Devils_Lake	Bruce_Jody	Unknown	Unknown
	Feeder	RBY	551	2022-08-31T15:18:10	2022-08-31T15:18:17	0:00:07	Devils_Lake	Bruce_Jody	Unknown	UNKNOWN
	Feeder	RBY	551	2022-09-14T12:25:10	2022-09-14T12:25:18	0:00:08	Devils_Lake	Bruce_Jody	Equip Fail Pole	Pole broken on 41.6kv line
	Feeder	RBY	551	2022-10-07T17:04:21	2022-10-07T17:04:28	0:00:07	Devils_Lake	Bruce_Jody	Unknown	UNKNOWN
	Feeder	RBY	551	2022-12-12T09:03:43	2022-12-12T09:03:54	0:00:11	Devils_Lake	Bruce_Jody	Weather	Heavy Frost on Distribution and transmission lines
	Feeder	RBY	551	2022-12-12T09:57:05	2022-12-12T09:57:12	0:00:07	Devils_Lake	Bruce_Jody	Weather	Heavy Frost on Distribution and transmission lines
	Feeder	RBY	266	2022-02-10T09:09:46	2022-02-10T09:10:17	0:00:31	Devils_Lake	Bruce_Jody		
	Feeder	RBY	266	2022-05-31T06:05:38	2022-05-31T06:05:47	0:00:09	Devils_Lake	Bruce_Jody	Vegetation	high winds - tree slapping the line
	Feeder	RBY	266	2022-05-31T06:08:49	2022-05-31T06:08:55	0:00:06	Devils_Lake	Bruce_Jody	Vegetation	high winds - tree slapping the line
	Feeder	RBY	266	2022-05-31T06:11:33	2022-05-31T06:11:39	0:00:06	Devils_Lake	Bruce_Jody	Vegetation	high winds - tree slapping the line
	Feeder	RBY	266	2022-05-31T06:28:44	2022-05-31T06:28:51	0:00:07	Devils_Lake	Bruce_Jody	Vegetation	high winds - tree slapping the line
	Feeder	RBY	266	2022-05-31T06:34:57	2022-05-31T06:35:03	0:00:06	Devils_Lake	Bruce_Jody	Vegetation	high winds - tree slapping the line
	Feeder	RBY	266	2022-05-31T06:35:45	2022-05-31T06:35:49	0:00:04	Devils_Lake	Bruce_Jody	Vegetation	high winds - tree slapping the line
	Feeder	RBY	266	2022-05-31T06:42:44	2022-05-31T06:42:51	0:00:07	Devils_Lake	Bruce_Jody	Vegetation	high winds - tree slapping the line
	Feeder	RBY	266	2022-05-31T06:53:32	2022-05-31T06:53:39	0:00:07	Devils_Lake	Bruce_Jody	Vegetation	high winds - tree slapping the line
	Feeder	RBY	266	2022-05-31T07:00:27	2022-05-31T07:00:34	0:00:07	Devils_Lake	Bruce_Jody	Vegetation	high winds - tree slapping the line
	Feeder	RBY	266	2022-05-31T07:28:40	2022-05-31T07:28:46	0:00:06	Devils_Lake	Bruce_Jody	Vegetation	high winds - tree slapping the line
	Feeder	RBY	266	2022-05-31T07:29:22	2022-05-31T07:29:26	0:00:04	Devils_Lake	Bruce_Jody	Vegetation	high winds - tree slapping the line
	Feeder	RBY	266	2022-05-31T07:30:10	2022-05-31T07:30:17	0:27:35	Devils_Lake	Bruce_Jody	Vegetation	high winds - tree slapping the line
	Feeder	RBY	266	2022-05-31T08:18:41	2022-05-31T08:18:47	0:00:06	Devils_Lake	Bruce_Jody	Vegetation	high winds - tree slapping the line
	Feeder	RBY	266	2022-05-31T08:19:25	2022-05-31T08:19:29	0:00:04	Devils_Lake	Bruce_Jody	Vegetation	high winds - tree slapping the line
	Feeder	RBY	266	2022-05-31T08:21:30	2022-05-31T08:30:29	0:08:59	Devils_Lake	Bruce_Jody	Vegetation	high winds - tree slapping the line
	Feeder	RBY	266	2022-06-14T18:55:50	2022-06-14T18:55:56	0:00:06	Devils_Lake	Bruce_Jody	Unknown	unknown
	Feeder	RBY	266	2022-06-18T15:57:24	2022-06-18T15:57:28	0:00:04	Devils_Lake	Bruce_Jody	Unknown	unknown
	Feeder	RBY	266	2022-12-11T15:33:12	2022-12-11T15:33:19	0:00:07	Devils_Lake	Bruce_Jody	Equip Fail Insulator	Floater due to high winds
	Feeder	RBY	266	2022-12-12T09:55:45	2022-12-12T09:55:55	0:00:10	Devils_Lake	Bruce_Jody	Weather	Heavy Frost on Distribution and transmission lines
	Feeder	RBY	266	2022-12-12T10:06:01	2022-12-12T10:06:09	0:00:08	Devils_Lake	Bruce_Jody	Weather	Heavy Frost on Distribution and transmission lines
	Feeder	RBY	266	2022-12-12T10:27:12	2022-12-12T10:27:19	0:00:07	Devils_Lake	Bruce_Jody	Weather	Heavy Frost on Distribution and transmission lines
	Feeder	RBY	266	2022-12-12T11:15:43	2022-12-12T11:15:50	0:00:07	Devils_Lake	Bruce_Jody	Weather	Heavy Frost on Distribution and transmission lines
	Feeder	RBY	266	2022-12-12T11:27:03	2022-12-12T11:27:10	0:00:07	Devils_Lake	Bruce_Jody	Weather	Heavy Frost on Distribution and transmission lines
	Feeder	RBY	266	2022-12-12T11:58:11	2022-12-12T11:58:18	0:00:07	Devils_Lake	Bruce_Jody	Weather	Heavy Frost on Distribution and transmission lines
	Feeder	RBY	266	2022-12-12T12:55:29	2022-12-12T12:55:39	0:00:10	Devils_Lake	Bruce_Jody	Weather	Heavy Frost on Distribution and transmission lines
	Feeder	RBY	266	2022-12-12T13:42:53	2022-12-12T13:43:01	0:00:08	Devils_Lake	Bruce_Jody	Weather	Heavy Frost on Distribution and transmission lines
	Feeder	RBY	266	2022-12-12T13:56:09	2022-12-12T13:56:16	0:00:07	Devils_Lake	Bruce_Jody	Weather	Heavy Frost on Distribution and transmission lines
	Feeder	RBY	266	2022-12-12T14:10:30	2022-12-12T14:10:37	0:00:07	Devils_Lake	Bruce_Jody	Weather	Heavy Frost on Distribution and transmission lines
	Feeder	RBY	266	2022-12-15T11:01:14	2022-12-15T11:01:21	0:00:07	Devils_Lake	Bruce_Jody	Weather	Icing - blizzard conditions high winds
	Substation	RBY	280	2022-05-09T07:27:14	2022-05-09T07:27:21	0:00:07	Wahpeton	Wahpeton	Weather	Strong thunderstorms with lots of lightning and heavy rain in the area.
	Substation	RBY	280	2022-05-12T19:01:04	2022-05-12T19:01:12	0:00:08	Wahpeton	Wahpeton	Weather	Strong storms with straight line winds caused extensive tree damage and several poles to break.
	Substation	RBY	280	2022-05-30T19:32:21	2022-05-30T19:32:27	0:00:06	Wahpeton	Wahpeton	Weather	Several strong storms went through the area with high winds and lightning.
	Substation	RBY	280	2022-06-24T22:56:28	2022-06-24T22:56:50	0:00:22	Wahpeton	Wahpeton	Weather	Strong storms with high winds and lightning in the area.
	Substation	RBY	280	2022-07-20T20:53:50	2022-07-20T20:53:55	0:00:05	Wahpeton	Wahpeton	Vegetation	After patrols we found some trees that are close to line so we will trim them up in the next few days

Equipment ID	Equipment Type	Phase(s)	Customers	Outage Start	Outage End	Duration	Customer Service Center	Region	Cause	Notes
	Substation	RBY	280	2022-08-21T14:46:57	2022-08-21T14:47:01	0:00:04	Wahpeton	Wahpeton	Equip Fail Underground	UG fault
	Substation	RBY	280	2022-10-23T21:53:25	2022-10-23T21:53:32	0:00:07	Wahpeton	Wahpeton	Unknown	SEL reading of 7.3 miles so we are patrolling all three directions to find issue.
	Substation	Y	4	2022-04-24T00:27:10	2022-04-24T01:41:44	1:14:34	Rugby	Schell_Peary	Weather	Severe Weather including High winds, Freezing rain, Snow and rain caused Broken poles, switches, Xarms, wire and insulators leading to multiple power outages throughout the area.
	Substation	Y	4	2022-05-09T09:10:52	2022-05-09T09:11:00	0:00:08	Rugby	Schell_Peary	Weather	Stormy weather rolled through the area with lightning and heavy winds.
	Substation	Y	4	2022-07-06T09:29:42	2022-07-06T09:30:07	0:00:25	Rugby	Schell_Peary	Equip Fail Cutout	Highside cutout failed and needed to be fixed
	Substation	Y	4	2022-07-21T21:27:05	2022-07-21T21:27:50	0:00:45	Rugby	Schell_Peary	Unknown	Unknown
	Substation	Y	4	2022-07-22T20:59:13	2022-07-22T20:59:35	0:00:22	Rugby	Schell_Peary	Weather	Storm moving through - high winds and lightning
	Substation	Y	4	2022-07-22T21:13:17	2022-07-22T21:13:42	0:00:25	Rugby	Schell_Peary	Weather	Storm moving through - high winds and lightning
	Substation	Y	4	2022-09-07T07:13:45	2022-09-07T07:28:15	0:14:30	Rugby	Schell_Peary	Equip Fail Conductor	Broken Jumper
	Substation	Y	4	2022-09-07T10:33:27	2022-09-07T10:33:38	0:00:11	Rugby	Schell_Peary	Equip Fail Conductor	Broken Jumper
	Feeder	RBY	1074	2022-04-06T15:11:52	2022-04-06T15:12:03	0:00:11	Rugby	Voeller_Mark	Unknown	SRep could not find a reason for blink
	Feeder	RBY	1074	2022-07-22T21:54:54	2022-07-22T21:55:00	0:00:06	Rugby	Voeller_Mark	Weather	Storm moving through - high winds and lightning
	Feeder	RBY	1074	2022-07-22T21:57:15	2022-07-22T21:57:21	0:00:06	Rugby	Voeller_Mark	Weather	Storm moving through - high winds and lightning
	Feeder	RBY	1074	2022-07-22T21:59:46	2022-07-22T21:59:54	0:00:08	Rugby	Voeller_Mark	Weather	Storm moving through - high winds and lightning
	Feeder	RBY	1074	2022-07-22T22:02:16	2022-07-23T03:55:00	5:52:44	Rugby	Voeller_Mark	Weather	Severe storm with 70 mph winds broke poles/crossarms/conductors/services/insulators. JCH Audited 7/28/22
	Feeder	RBY	1074	2022-07-23T04:12:05	2022-07-23T04:12:31	0:00:26	Rugby	Voeller_Mark	Weather	Severe storm with 70 mph winds broke poles/crossarms/conductors/services/insulators
	Feeder	RBY	1074	2022-08-24T08:53:11	2022-08-24T08:53:20	0:00:09	Rugby	Voeller_Mark	Unknown	Unknown
	Feeder	RBY	1074	2022-10-20T12:16:39	2022-10-20T12:16:50	0:00:11	Rugby	Voeller_Mark	Unknown	Unknown
	Feeder	RBY	1074	2022-12-03T21:58:05	2022-12-03T21:58:16	0:00:11	Rugby	Voeller_Mark	Unknown	Unknown
	Substation	RBY	728	2022-05-09T11:30:13	2022-05-09T11:30:35	0:00:22	Rugby	Voeller_Mark	Weather	Stormy weather rolled through the area with lightning and heavy winds.
	Substation	RBY	728	2022-06-06T20:34:56	2022-06-06T20:35:16	0:00:20	Rugby	Voeller_Mark	Unknown	SRep could not find an exact reason for the blink.
	Substation	RBY	728	2022-07-22T21:58:47	2022-07-22T21:59:26	0:00:39	Rugby	Voeller_Mark	Weather	Storm moving through - high winds and lightning
	Substation	RBY	728	2022-07-23T04:04:56	2022-07-23T04:11:43	0:06:47	Rugby	Voeller_Mark	Weather	Severe storm with 70 mph winds broke poles/crossarms/conductors/services/insulators
	Substation	RBY	728	2022-08-09T08:42:43	2022-08-09T08:43:46	0:01:03	Rugby	Voeller_Mark	Unknown	Unknown.
	Substation	RBY	15	2022-05-12T20:12:50	2022-05-12T20:12:57	0:00:07	Rugby	Schell_Peary	Weather	Stormy weather rolled through the area.
	Substation	RBY	15	2022-05-26T08:56:44	2022-05-26T09:00:11	0:03:27	Rugby	Schell_Peary	Unknown	Breaker held when put back in. No cause found on why it tripped
	Substation	RBY	15	2022-06-13T21:17:27	2022-06-13T21:17:33	0:00:06	Rugby	Schell_Peary	Weather	Stormy weather with high winds traveled through the CSC causing blinks
	Substation	RBY	15	2022-08-05T04:42:52	2022-08-05T04:42:58	0:00:06	Rugby	Schell_Peary	Unknown	Unknown.
	Substation	RBY	15	2022-09-24T04:17:49	2022-09-24T05:59:10	1:41:21	Rugby	Schell_Peary	Equip Fail Insulator	Failed insulator
	Substation	BRY	171	2022-04-23T18:01:09	2022-04-23T20:15:52	2:14:43	Rugby	Lee_James	Weather	Severe Weather including High winds, Freezing rain, Snow and rain caused Broken poles, switches, Xarms, wire and insulators leading to multiple power outages throughout the area. JCH audited 4/30/22
	Substation	BRY	120	2022-04-23T22:29:11	2022-04-24T01:02:55	2:33:44	Rugby	Lee_James	Weather	Severe Weather including High winds, Freezing rain, Snow and rain caused Broken poles, switches, Xarms, wire and insulators leading to multiple power outages throughout the area. JCH audited 4/30/22
	Substation	BRY	119	2022-04-24T08:47:05	2022-04-24T08:47:17	0:00:12	Rugby	Lee_James	Weather	Severe Weather including High winds, Freezing rain, Snow and rain caused Broken poles, switches, Xarms, wire and insulators leading to multiple power outages throughout the area.
	Substation	B	50	2022-04-24T08:47:56	2022-04-24T08:47:56	0:00:00	Rugby	Lee_James	Weather	Severe Weather including High winds, Freezing rain, Snow and rain caused Broken poles, switches, Xarms, wire and insulators leading to multiple power outages throughout the area.
	Substation	RY	71	2022-04-24T08:47:59	2022-04-24T11:22:35	2:34:36	Rugby	Lee_James	Weather	Severe Weather including High winds, Freezing rain, Snow and rain caused Broken poles, switches, Xarms, wire and insulators leading to multiple power outages throughout the area. JCH audited 4/30/22
	Substation	BRY	120	2022-04-24T12:00:30	2022-04-24T12:01:01	0:00:31	Rugby	Lee_James	Weather	Severe Weather including High winds, Freezing rain, Snow and rain caused Broken poles, switches, Xarms, wire and insulators leading to multiple power outages throughout the area.
	Substation	BRY	120	2022-04-24T12:01:58	2022-04-24T12:02:14	0:00:16	Rugby	Lee_James	Weather	Severe Weather including High winds, Freezing rain, Snow and rain caused Broken poles, switches, Xarms, wire and insulators leading to multiple power outages throughout the area.

Equipment ID	Equipment Type	Phase(s)	Customers	Outage Start	Outage End	Duration	Customer Service Center	Region	Cause	Notes
	Substation	BRY	117	2022-04-24T12:03:12	2022-04-24T12:03:48	0:00:36	Rugby	Lee_James	Weather	Severe Weather including High winds, Freezing rain, Snow and rain caused Broken poles, switches, Xarms, wire and insulators leading to multiple power outages throughout the area.
	Substation	BRY	120	2022-04-24T12:50:18	2022-04-24T14:06:27	1:16:09	Rugby	Lee_James	Weather	Severe Weather including High winds, Freezing rain, Snow and rain caused Broken poles, switches, Xarms, wire and insulators leading to multiple power outages throughout the area.
	Substation	BRY	120	2022-04-24T14:50:03	2022-04-24T14:50:13	0:00:10	Rugby	Lee_James	Weather	Severe Weather including High winds, Freezing rain, Snow and rain caused Broken poles, switches, Xarms, wire and insulators leading to multiple power outages throughout the area.
	Substation	BRY	116	2022-04-24T15:53:23	2022-04-24T15:53:32	0:00:09	Rugby	Lee_James	Weather	Severe Weather including High winds, Freezing rain, Snow and rain caused Broken poles, switches, Xarms, wire and insulators leading to multiple power outages throughout the area.
	Substation	BRY	119	2022-04-24T17:47:20	2022-04-24T17:47:28	0:00:08	Rugby	Lee_James	Weather	Severe Weather including High winds, Freezing rain, Snow and rain caused Broken poles, switches, Xarms, wire and insulators leading to multiple power outages throughout the area.
	Substation	BRY	121	2022-05-07T19:19:10	2022-05-07T20:31:08	1:11:58	Rugby	Lee_James	Weather	Ice storm caused insulator's, Crossarms and pole damage.
	Substation	BRY	121	2022-06-24T17:05:29	2022-06-24T17:05:54	0:00:25	Rugby	Lee_James	Unknown	SRep could not find an exact reason for the blink.
	Substation	BRY	121	2022-06-24T17:45:28	2022-06-24T17:45:53	0:00:25	Rugby	Lee_James	Unknown	SRep could not find an exact reason for the blink.
	Substation	BRY	121	2022-07-09T08:33:43	2022-07-09T08:56:49	0:23:06	Rugby	Lee_James	Weather	Storms were rolling through the area. rain, high winds, lightning.
	Substation	BRY	120	2022-07-10T03:53:46	2022-07-10T03:54:57	0:01:11	Rugby	Lee_James	Weather	Storms rolled through the area causing damage throughout its path.
	Substation	RY	86	2022-08-20T13:19:27	2022-08-20T13:19:32	0:00:05	Rugby	Lee_James	Unknown	rain, lightning, high winds
	Substation	BRY	121	2022-08-24T13:43:31	2022-08-24T13:43:58	0:00:27	Rugby	Lee_James	Unknown	Unknown
	Substation	BRY	143	2022-06-14T06:03:53	2022-06-14T06:04:21	0:00:28	Jamestown	Erickson_Joe	Weather	Line Petrol revealed no known cause but did notice Hawks East of Max ND
	Substation	BRY	142	2022-06-20T18:46:24	2022-06-20T18:46:53	0:00:29	Jamestown	Erickson_Joe	Weather	Storm in the area.
	Substation	BRY	142	2022-06-24T20:17:53	2022-06-24T20:18:22	0:00:29	Jamestown	Erickson_Joe	Weather	Storms in the area.
	Substation	B	54	2022-07-18T21:33:43	2022-07-18T21:33:53	0:00:10	Jamestown	Erickson_Joe	Weather	Storm in the area.
	Substation	RY	89	2022-07-18T21:33:54	2022-07-18T21:34:11	0:00:17	Jamestown	Erickson_Joe	Weather	Storm passing through the area.
	Substation	BRY	64	2022-01-08T02:46:40	2022-01-08T02:47:24	0:00:44	Devils_Lake	Devils_Lake	Equip Fail Conductor	Storm passing through the area.
	Substation	BY	43	2022-03-14T22:56:33	2022-03-14T22:56:51	0:00:18	Devils_Lake	Devils_Lake	Unknown	Storm passing through the area.
	Substation	R	21	2022-03-14T22:56:52	2022-03-14T22:56:58	0:00:06	Devils_Lake	Devils_Lake	Unknown	Yellow Phase cable faulted out of the warehouse sub which was seen on the transmission
	Substation	BRY	64	2022-05-12T18:00:15	2022-05-12T18:00:37	0:00:22	Devils_Lake	Devils_Lake	Weather	Unknown
	Substation	BRY	64	2022-05-25T15:02:29	2022-05-25T15:03:31	0:01:02	Devils_Lake	Devils_Lake	Unknown	Storm system moved through with high wind, heavy rains and lightning.
	Substation	RY	44	2022-06-24T16:52:54	2022-06-24T16:53:17	0:00:23	Devils_Lake	Devils_Lake	Weather	Unknown
	Substation	R	24	2022-06-24T18:12:12	2022-06-24T18:12:17	0:00:05	Devils_Lake	Devils_Lake	Lightning	Severe storm moved through. Lightning struck 4 poles.
	Substation	Y	20	2022-06-24T18:12:29	2022-06-24T18:12:34	0:00:05	Devils_Lake	Devils_Lake	Lightning	Storm through the area. 4 poles took shots of lightning. 3 by McVilleville and one by Fort Totten
	Substation	BRY	64	2022-07-10T06:51:01	2022-07-10T10:26:04	3:35:03	Devils_Lake	Devils_Lake	Vegetation	Storm through the area. 4 poles took shots of lightning. 3 by McVilleville and one by Fort Totten
	Substation	BRY	64	2022-08-18T03:22:04	2022-08-18T03:22:32	0:00:28	Devils_Lake	Devils_Lake	Weather	Tree fell into line from storm. JCH Audited 7/28/22
	Substation	BRY	64	2022-09-04T07:48:17	2022-09-04T07:48:43	0:00:26	Devils_Lake	Devils_Lake	Unknown	Severe storms moved through the area
	Substation	BRY	64	2022-12-03T05:43:29	2022-12-03T09:33:34	3:50:05	Devils_Lake	Devils_Lake	Equip Fail Underground	Unknown
	Substation	BRY	64	2022-12-22T16:18:46	2022-12-22T16:51:01	0:32:15	Devils_Lake	Devils_Lake	Weather	Primary ug cable fault
	Substation	BRY	64	2022-12-23T14:03:48	2022-12-23T16:56:17	2:52:29	Devils_Lake	Devils_Lake	Weather	Blizzard conditions combined with icing and high winds caused excess of 100 floaters on different line sections
	Substation	BRY	64	2022-12-28T11:25:27	2022-12-28T12:01:03	0:35:36	Devils_Lake	Devils_Lake	Equip Fail Insulator	Blizzard conditions combined with icing and high winds caused excess of 100 floaters on different line sections
	Substation	BRY	234	2022-02-18T08:52:17	2022-02-18T08:57:33	0:05:16	Rugby	Dillow_James	Equip Fail Insulator	Floaters from icing/wind.
	Substation	R	86	2022-05-05T09:58:48	2022-05-05T10:14:59	0:16:11	Rugby	Dillow_James	Equip Fail Cutout	SRep found a floater on the distribution line due to broken insulator
	Substation	B	85	2022-06-29T13:04:30	2022-06-29T13:04:37	0:00:07	Rugby	Dillow_James	Unknown	Cutout tripped. Could not find reason.
	Substation	BRY	234	2022-07-10T04:17:39	2022-07-10T05:03:08	0:45:29	Rugby	Dillow_James	Weather	SRep could not find a specific reason for the blink
	Substation	B	85	2022-07-20T00:35:21	2022-07-20T00:35:29	0:00:08	Rugby	Dillow_James	Unknown	Storms rolled through the area causing damage throughout its path.
	Substation	B	85	2022-08-18T00:42:33	2022-08-18T00:42:44	0:00:11	Rugby	Dillow_James	Weather	rain, lightning and high winds
	Substation	B	85	2022-08-18T06:12:47	2022-08-18T06:12:56	0:00:09	Rugby	Dillow_James	Weather	Unknown
	Substation	B	85	2022-10-26T17:12:57	2022-10-26T17:13:05	0:00:08	Rugby	Dillow_James	Unknown	Severe storm moved through
	FeederSection	Y	1	2022-05-09T05:44:12	2022-05-09T05:44:21	0:00:09	Wahpeton	Smith_Ryan	Weather	Severe storm moved through
	FeederSection	Y	1	2022-06-14T05:38:17	2022-06-14T05:38:24	0:00:07	Wahpeton	Smith_Ryan	Weather	Severe storm moved through

Equipment ID	Equipment Type	Phase(s)	Customers	Outage Start	Outage End	Duration	Customer Service Center	Region	Cause	Notes
	FeederSection	Y	1	2022-08-10T13:25:19	2022-08-10T13:55:24	0:30:05	Wahpeton	Smith_Ryan	Vehicle Accident	Excavator made contact with the neutral and tore it down so we had to fix before we reenergized the line.
	FeederSection	Y	1	2022-09-20T09:02:05	2022-09-20T09:03:19	0:01:14	Wahpeton	Smith_Ryan	Planned	Cut over to new UG
	FeederSection	Y	1	2022-09-20T11:02:40	2022-09-20T11:03:08	0:00:28	Wahpeton	Smith_Ryan	Planned	Cut over to new UG
	Substation	RY	42	2022-06-24T17:04:18	2022-06-24T17:04:30	0:00:12	Rugby	Voeller_Dave	Unknown	SRep could not find an exact reason for the blink.
	Substation	RY	42	2022-07-06T16:16:56	2022-07-06T16:18:03	0:01:07	Rugby	Voeller_Dave	Equip Fail Cutout	Highside cutout failed and needed to be fixed
	Substation	R	23	2022-07-18T20:10:27	2022-07-19T21:07:31	24:57:04	Rugby	Voeller_Dave	Itron meter failure	Itron meter failure - JCH Audited 7/28/22 per Rod Jensen
	Substation	RY	42	2022-07-22T22:16:01	2022-07-22T22:17:02	0:01:01	Rugby	Voeller_Dave	Weather	Storm moving through - high winds and lightning
	Substation	RY	42	2022-08-18T20:10:36	2022-08-18T20:11:54	0:01:18	Rugby	Voeller_Dave	Weather	Severe storm moved through
	Substation	Y	24	2022-10-21T08:38:22	2022-10-21T11:36:52	2:58:30	Rugby	Voeller_Dave	Itron meter voltage source failure	Planned outage - one house out
	Substation	RY	42	2022-12-27T13:36:31	2022-12-27T14:39:29	1:02:58	Rugby	Voeller_Dave	Equip Fail Insulator	Floater
	FeederSection	BRY	63	2022-05-09T05:43:54	2022-05-09T05:44:20	0:00:26	Wahpeton	Wahpeton	Weather	Strong storms with lightning in the area.
	FeederSection	BRY	63	2022-06-14T05:38:14	2022-06-14T05:38:35	0:00:21	Wahpeton	Wahpeton	Animal	Dead Squirrel on riser pole
	FeederSection	BRY	63	2022-06-25T07:18:29	2022-06-25T07:18:50	0:00:21	Wahpeton	Wahpeton	Weather	Storms in the area.
	Substation	BR	12	2022-05-12T20:20:02	2022-05-12T20:20:15	0:00:13	Jamestown	Midstokke_Ryane	Weather	Storm in the area.
	Substation	R	8	2022-06-14T06:30:17	2022-06-14T06:30:24	0:00:07	Jamestown	Midstokke_Ryane	Weather	Storm in the area.
	Substation	B	4	2022-06-14T06:30:25	2022-06-14T06:30:32	0:00:07	Jamestown	Midstokke_Ryane	Weather	Storm in the area.
	Substation	BR	12	2022-07-18T10:38:57	2022-07-18T12:03:36	1:24:39	Jamestown	Midstokke_Ryane	Planned	Replaced both regulators on the platform sub.
	Substation	BR	12	2022-08-19T18:57:49	2022-08-19T18:58:09	0:00:20	Jamestown	Midstokke_Ryane	Unknown	SEL indicated between Hannaford and Walum. Line patrolled but no cause found. There was lightning and rain in the area.
	Substation	BR	12	2022-11-30T12:17:03	2022-11-30T12:17:32	0:00:29	Jamestown	Midstokke_Ryane	other	Planned outage for installation of new 2-way transmission switch at the Hannaford Sub.
	Substation	RBY	190	2022-03-14T11:35:56	2022-03-14T11:36:03	0:00:07	Jamestown	Price_Chans	Unknown	Devils Lake breaker 645 operated. SEL 10 miles. Cause unknown and not investigated.
	Substation	RBY	190	2022-05-17T10:27:25	2022-05-17T10:27:31	0:00:06	Jamestown	Price_Chans	Unknown	Devils Lake 645 operated. SEL 28.3 miles. Cause unknown and not investigated.
	Substation	RBY	190	2022-06-24T17:47:46	2022-06-24T18:53:28	1:05:42	Jamestown	Price_Chans	Equip Fail Insulator	Failed insulator north of Sheyenne Jct.
	Substation	RBY	190	2022-07-22T22:53:41	2022-07-22T22:54:08	0:00:27	Jamestown	Price_Chans	Weather	SEL 39.3 miles and .6 miles from Devils Lake breaker 645 due to large lightning storm, rain, hail and strong winds. Line not patrolled.
	Substation	RBY	3	2022-01-17T12:03:43	2022-01-17T12:03:54	0:00:11	Jamestown	Price_Chans	Equip Fail Insulator	Failed transmission insulator between Oberon and Sheyenne Jct.
	Substation	RBY	3	2022-03-14T11:35:50	2022-03-14T11:35:57	0:00:07	Jamestown	Price_Chans	Unknown	Devils Lake breaker 645 operated. SEL 10 miles. Cause unknown and not investigated.
	Substation	RBY	3	2022-05-17T10:27:20	2022-05-17T10:27:26	0:00:06	Jamestown	Price_Chans	Unknown	Devils Lake 645 operated. SEL 28.3 miles. Cause unknown and not investigated.
	Substation	RBY	3	2022-06-24T17:47:59	2022-06-24T18:53:42	1:05:43	Jamestown	Price_Chans	Equip Fail Insulator	Failed insulator north of Sheyenne Jct.
	Substation	RBY	3	2022-07-22T22:53:55	2022-07-22T22:54:23	0:00:28	Jamestown	Price_Chans	Weather	SEL 39.3 miles and .6 miles from Devils Lake breaker 645 due to large lightning storm, rain, hail and strong winds. Line not patrolled.
	Substation	BR	6	2022-06-13T20:44:40	2022-06-13T20:44:59	0:00:19	Rugby	Dillow_James	Weather	Stormy weather with high winds traveled through the CSC causing blinks
	Substation	BR	6	2022-07-10T04:24:26	2022-07-10T06:52:00	2:27:34	Rugby	Dillow_James	Weather	Storms rolled through the area causing damage throughout its path. rain, lightning and high winds. JCH Audited 7/28/22
	Substation	BR	6	2022-07-30T23:07:23	2022-07-30T23:07:46	0:00:23	Rugby	Dillow_James	Unknown	CPEC Voltaire Neal Station 185 operated. SEL 17.7 miles. WAPA not confident that the SEL is correct. Patrolled, nothing found.
	Substation	BR	53	2022-04-24T00:27:06	2022-04-24T01:41:42	1:14:36	Rugby	Derr_John	Weather	Severe Weather including High winds, Freezing rain, Snow and rain caused Broken poles, switches, Xarms, wire and insulators leading to multiple power outages throughout the area.
	Substation	BR	54	2022-05-09T09:10:47	2022-05-09T09:10:58	0:00:11	Rugby	Derr_John	Weather	Stormy weather rolled through the area with lightning and heavy winds.
	Substation	R	31	2022-07-06T09:29:39	2022-07-06T09:29:46	0:00:07	Rugby	Derr_John	Equip Fail Cutout	Highside cutout failed and needed to be fixed
	Substation	B	23	2022-07-06T09:29:58	2022-07-06T09:30:05	0:00:07	Rugby	Derr_John	Equip Fail Cutout	Highside cutout failed and needed to be fixed
	Substation	BR	54	2022-07-21T21:27:05	2022-07-21T21:27:47	0:00:42	Rugby	Derr_John	Unknown	Unknown
	Substation	BR	54	2022-07-22T20:59:11	2022-07-22T21:00:12	0:01:01	Rugby	Derr_John	Weather	Storm moving through - high winds and lightning
	Substation	BR	54	2022-07-22T21:13:14	2022-07-22T21:13:41	0:00:27	Rugby	Derr_John	Weather	Storm moving through - high winds and lightning
	Substation	BR	54	2022-09-07T07:13:45	2022-09-07T08:04:58	0:51:13	Rugby	Derr_John	Equip Fail Conductor	Broken Jumper
	Substation	BR	54	2022-09-07T10:33:26	2022-09-07T10:33:36	0:00:10	Rugby	Derr_John	Equip Fail Conductor	Broken Jumper
	FeederSection	RBY	181	2022-05-30T15:20:09	2022-05-30T21:27:58	6:07:49	Milbank	Bear_Jason	Weather	Severe storm, multiple broken poles, insulator failures
	FeederSection	RBY	181	2022-07-23T09:33:43	2022-07-23T09:33:47	0:00:04	Milbank	Bear_Jason		
	FeederSection	RBY	181	2022-12-14T01:40:10	2022-12-14T07:08:08	5:27:58	Milbank	Bear_Jason	Weather	Ice Storm associated with high gusty winds for several days
	Substation	RBY	40	2022-02-15T12:59:12	2022-02-15T18:23:46	5:24:34	Jamestown	Bruner_Brent	other	Contractor cut two phases of the Spiritwood town feeder while boring underground for ADM site. JCH Audited 2/28/22

Equipment ID	Equipment Type	Phase(s)	Customers	Outage Start	Outage End	Duration	Customer Service Center	Region	Cause	Notes
	Substation	RBY	40	2022-03-04T10:05:30	2022-03-04T11:08:25	1:02:55	Jamestown	Bruner_Brent	Equip Fail Substation	2 jumpers made contact phase-phase contact between the transformer and recloser.
	Substation	RBY	40	2022-03-04T12:19:26	2022-03-04T12:31:30	0:12:04	Jamestown	Bruner_Brent	Equip Fail Substation	2 jumpers made contact phase-phase contact between the transformer and recloser.
	Substation	BRY	28	2022-03-13T15:15:20	2022-03-13T15:15:33	0:00:13	Devils_Lake	Chase_Scott	Unknown	Unknown
	Substation	RBY	28	2022-03-14T11:35:46	2022-03-14T11:36:02	0:00:16	Devils_Lake	Chase_Scott	Unknown	Unknown
	Substation	RBY	28	2022-03-14T22:56:42	2022-03-14T22:56:57	0:00:15	Devils_Lake	Chase_Scott	Unknown	Unknown
	Substation	RBY	28	2022-03-15T11:32:36	2022-03-15T11:32:51	0:00:15	Devils_Lake	Chase_Scott	Unknown	Unknown
	Substation	BRY	28	2022-05-17T10:27:05	2022-05-17T10:27:26	0:00:21	Devils_Lake	Chase_Scott	Unknown	Unknown
	Substation	RY	19	2022-06-24T15:17:38	2022-06-24T15:17:43	0:00:05	Devils_Lake	Chase_Scott	Weather	Severe storm moved through. Lightning struck 4 poles.
	Substation	BRY	28	2022-06-24T17:47:46	2022-06-24T17:55:05	0:07:19	Devils_Lake	Chase_Scott	Weather	Severe storm moved through. Lightning struck 4 poles
	Substation	BRY	28	2022-07-22T22:53:40	2022-07-22T22:54:24	0:00:44	Devils_Lake	Chase_Scott	Weather	Storm moving through - high winds and lightning
	Substation	BR	234	2022-02-02T08:03:06	2022-02-02T08:21:28	0:18:22	Crookston	Mattern_Marlin	Equip Fail Other	Conductor broke at end of armor rod, line was not switched normally because of work be done in the Hensel area
	Substation	BR	234	2022-02-02T08:53:11	2022-02-02T08:53:34	0:00:23	Crookston	Mattern_Marlin	other	Line switched to pick up outage and loading incorrect from source and line was overloaded and operated
	Substation	BR	234	2022-02-02T09:30:03	2022-02-02T09:30:26	0:00:23	Crookston	Mattern_Marlin	other	Line switched to pick up outage and loading incorrect from source and line was overloaded and operated
	Substation	BR	234	2022-02-15T18:26:02	2022-02-15T18:26:22	0:00:20	Crookston	Mattern_Marlin		
	Substation	BR	233	2022-06-18T14:52:18	2022-06-18T14:52:57	0:00:39	Crookston	Mattern_Marlin		
	Substation	BR	234	2022-06-18T14:53:56	2022-06-18T18:01:33	3:07:37	Crookston	Mattern_Marlin	Vegetation	Tree across 40KV by Grafton, Larry has been emailed on this to line up some tree trimming. JCH audited 7/28/22
	Substation	BR	234	2022-06-24T15:01:55	2022-06-24T15:03:40	0:01:45	Crookston	Mattern_Marlin		
	Substation	BR	233	2022-06-24T15:04:34	2022-06-24T15:12:07	0:07:33	Crookston	Mattern_Marlin		
	Substation	BR	231	2022-06-24T15:16:40	2022-06-24T15:17:01	0:00:21	Crookston	Mattern_Marlin		
	Substation	BR	207	2022-07-14T19:10:45	2022-07-14T19:11:04	0:00:19	Crookston	Mattern_Marlin		
	Substation	BR	234	2022-07-20T07:53:53	2022-07-20T07:54:13	0:00:20	Crookston	Mattern_Marlin		
	Substation	BR	233	2022-07-22T23:46:35	2022-07-22T23:46:54	0:00:19	Crookston	Mattern_Marlin		
	Substation	BR	209	2022-07-23T00:02:50	2022-07-23T00:03:09	0:00:19	Crookston	Mattern_Marlin		
	Substation	BR	207	2022-07-23T00:04:46	2022-07-23T00:05:04	0:00:18	Crookston	Mattern_Marlin		
	Substation	BR	210	2022-07-23T00:12:03	2022-07-23T00:12:22	0:00:19	Crookston	Mattern_Marlin		
	Substation	BR	234	2022-07-29T01:29:23	2022-07-29T01:29:43	0:00:20	Crookston	Mattern_Marlin		
	Substation	BR	234	2022-08-18T04:21:32	2022-08-18T04:22:37	0:01:05	Crookston	Mattern_Marlin		
	Substation	BR	232	2022-08-18T11:22:57	2022-08-18T11:23:59	0:01:02	Crookston	Mattern_Marlin		
	Substation	BR	234	2022-09-07T22:56:08	2022-09-07T22:57:31	0:01:23	Crookston	Mattern_Marlin		
	Substation	BR	234	2022-09-21T00:22:38	2022-09-21T00:23:03	0:00:25	Crookston	Mattern_Marlin		
	Feeder	Y	71	2022-02-02T08:03:14	2022-02-02T08:21:28	0:18:14	Crookston	Mattern_Marlin	Equip Fail Other	Conductor broke at end of armor rod, line was not switched normally because of work be done in the Hensel area
	Feeder	Y	70	2022-02-02T08:53:18	2022-02-02T08:53:34	0:00:16	Crookston	Mattern_Marlin	other	Line switched to pick up outage and loading incorrect from source and line was overloaded and operated
	Feeder	Y	70	2022-02-02T09:30:11	2022-02-02T09:30:26	0:00:15	Crookston	Mattern_Marlin	other	Line switched to pick up outage and loading incorrect from source and line was overloaded and operated
	Feeder	Y	70	2022-02-15T18:26:06	2022-02-15T18:26:22	0:00:16	Crookston	Mattern_Marlin		
	Feeder	Y	71	2022-06-18T14:52:19	2022-06-18T14:52:57	0:00:38	Crookston	Mattern_Marlin		
	Feeder	Y	97	2022-06-18T14:53:56	2022-06-18T18:01:32	3:07:36	Crookston	Mattern_Marlin	Vegetation	Tree across 40KV by Grafton, Larry has been emailed on this to line up some tree trimming. JCH audited 7/28/22
	Feeder	Y	72	2022-06-24T15:01:56	2022-06-24T15:03:40	0:01:44	Crookston	Mattern_Marlin		
	Feeder	Y	70	2022-06-24T15:04:35	2022-06-24T15:12:06	0:07:31	Crookston	Mattern_Marlin		
	Feeder	Y	72	2022-06-24T15:16:41	2022-06-24T15:17:01	0:00:20	Crookston	Mattern_Marlin		
	Feeder	Y	96	2022-07-14T19:10:44	2022-07-14T19:10:58	0:00:14	Crookston	Mattern_Marlin		
	Feeder	Y	70	2022-07-20T07:53:54	2022-07-20T07:54:07	0:00:13	Crookston	Mattern_Marlin		
	Feeder	Y	96	2022-07-22T23:46:35	2022-07-22T23:46:48	0:00:13	Crookston	Mattern_Marlin		
	Feeder	Y	95	2022-07-23T00:02:49	2022-07-23T00:03:03	0:00:14	Crookston	Mattern_Marlin		
	Feeder	Y	97	2022-07-23T00:04:45	2022-07-23T00:04:58	0:00:13	Crookston	Mattern_Marlin		
	Feeder	Y	90	2022-07-23T00:12:02	2022-07-23T00:12:16	0:00:14	Crookston	Mattern_Marlin		
	Feeder	Y	70	2022-07-29T01:29:26	2022-07-29T01:30:32	0:01:06	Crookston	Mattern_Marlin		
	Feeder	Y	97	2022-08-18T04:21:32	2022-08-18T04:21:57	0:00:25	Crookston	Mattern_Marlin		
	Feeder	Y	72	2022-08-18T11:22:58	2022-08-18T11:23:59	0:01:01	Crookston	Mattern_Marlin		
	Feeder	Y	70	2022-09-07T22:56:09	2022-09-07T22:57:29	0:01:20	Crookston	Mattern_Marlin		
	Feeder	Y	97	2022-09-21T00:22:38	2022-09-21T00:23:01	0:00:23	Crookston	Mattern_Marlin		
	Feeder	BR	73	2022-04-06T15:03:14	2022-04-06T15:03:25	0:00:11	Crookston	Mattern_Marlin		
	Feeder	BR	73	2022-04-06T16:48:18	2022-04-06T16:48:30	0:00:12	Crookston	Mattern_Marlin		
	Feeder	BR	73	2022-04-06T18:12:20	2022-04-06T18:12:33	0:00:13	Crookston	Mattern_Marlin		
	Feeder	BR	73	2022-04-06T18:18:06	2022-04-06T18:18:17	0:00:11	Crookston	Mattern_Marlin		
	Feeder	BR	73	2022-04-24T17:55:39	2022-04-24T17:56:01	0:00:22	Crookston	Mattern_Marlin		

Equipment ID	Equipment Type	Phase(s)	Customers	Outage Start	Outage End	Duration	Customer Service Center	Region	Cause	Notes
	Feeder	B	37	2022-10-11T09:46:25	2022-10-11T15:25:10	5:38:45	Crookston	Mattern_Marlin	Itron meter voltage source failure	Meter Disconnected, only one customer affected
	Substation	BRY	236	2022-01-13T11:45:59	2022-01-13T12:49:41	1:03:42	Jamestown	Powers_Steve	Unknown	Unknown distribution fault caused Peaking Plant breaker 815 to operate causing Jamestown SE Jct motor-operated switch 781 to open which caused transmission issues between Jamestown and Edgeley load pockets. Cause unknown upon investigation.
	Substation	B	89	2022-03-09T09:28:31	2022-03-09T09:29:14	0:00:43	Jamestown	Powers_Steve	Itron meter voltage source failure	Meter disconnected for nonpayment. Only 1 customer impacted.
	Substation	B	89	2022-03-09T10:49:48	2022-03-09T10:50:02	0:00:14	Jamestown	Powers_Steve	Itron meter voltage source failure	Disconnected meter reconnected. Only 1 customer impacted.
	Substation	BRY	235	2022-04-22T22:52:52	2022-04-22T22:53:15	0:00:23	Jamestown	Powers_Steve	Weather	Storms in the area.
	Substation	Y	89	2022-04-23T00:10:21	2022-04-23T00:10:27	0:00:06	Jamestown	Powers_Steve	Weather	Storms in the area.
	Substation	RB	147	2022-04-23T00:10:34	2022-04-23T00:10:40	0:00:06	Jamestown	Powers_Steve	Weather	Storms in the area.
	Substation	Y	89	2022-04-23T00:11:06	2022-04-23T00:11:15	0:00:09	Jamestown	Powers_Steve	Weather	Storms in the area.
	Substation	RB	147	2022-04-23T00:11:19	2022-04-23T00:11:28	0:00:09	Jamestown	Powers_Steve	Weather	Storms in the area.
	Substation	BRY	236	2022-05-13T13:34:37	2022-05-13T13:39:43	0:05:06	Jamestown	Powers_Steve	Equip Fail Pole	3 poles fell over in the slough 1 mile south of I-94 and Hwy 30 due to strong winds and wet conditions.
	Substation	RBY	236	2022-05-13T14:38:23	2022-05-13T14:41:44	0:03:21	Jamestown	Powers_Steve	Equip Fail Pole	3 poles fell over in the slough 1 mile south of I-94 and Hwy 30 due to strong winds and wet conditions.
	Substation	BRY	235	2022-05-13T14:48:49	2022-05-13T14:51:34	0:02:45	Jamestown	Powers_Steve	Equip Fail Pole	3 poles fell over in the slough 1 mile south of I-94 and Hwy 30 due to strong winds and wet conditions.
	Substation	RBY	236	2022-06-14T05:31:57	2022-06-14T05:32:12	0:00:15	Jamestown	Powers_Steve	Weather	Storm in the area.
	Substation	BRY	234	2022-06-14T05:43:49	2022-06-14T05:44:05	0:00:16	Jamestown	Powers_Steve	Weather	Storm in the area.
	Substation	BRY	236	2022-06-20T16:38:05	2022-06-20T16:44:17	0:06:12	Jamestown	Powers_Steve	Unknown	Investigated and cause not known. SEL 35.12 from Jamestown and 12.6 from Edgeley.
	Substation	BRY	236	2022-06-29T23:29:19	2022-06-29T23:32:14	0:02:55	Jamestown	Powers_Steve	Vegetation	Storm in the area caused trees, approximately 10 miles north of Edgeley, to contact transmission line which opened the breaker.
	Substation	BRY	236	2022-07-01T08:29:54	2022-07-01T08:39:31	0:09:37	Jamestown	Powers_Steve	Planned	Bin move.
	Substation	BRY	236	2022-07-07T06:21:40	2022-07-07T06:22:47	0:01:07	Jamestown	Powers_Steve	Weather	Storms in the area.
	Substation	BRY	236	2022-07-31T02:43:28	2022-07-31T02:43:43	0:00:15	Jamestown	Powers_Steve	Weather	Storm passing through the area.
	Substation	BRY	236	2022-08-15T07:36:04	2022-08-15T08:50:08	1:14:04	Jamestown	Powers_Steve	Unknown	CPEC switch 893 partially open and switch 892 open. No known cause.
	Substation	BRY	236	2022-08-28T06:37:04	2022-08-28T06:37:31	0:00:27	Jamestown	Powers_Steve	Weather	Lightning storm in the area. Line patrolled per SEL data, but nothing found.
	Substation	BRY	235	2022-08-28T07:15:29	2022-08-28T07:15:51	0:00:22	Jamestown	Powers_Steve	Weather	Lightning storm in the area. Line patrolled per SEL data, but nothing found.
	Substation	BRY	236	2022-09-16T10:09:31	2022-09-16T10:12:02	0:02:31	Jamestown	Powers_Steve	other	CPEC motor operated.
	Substation	BRY	235	2022-11-06T11:46:56	2022-11-06T11:50:57	0:04:01	Jamestown	Powers_Steve	Equip Fail Insulator	Broken center phase insulator between Jamestown Radio Station sub and Millarton-Montpelier Sub.
	Substation	BRY	235	2022-11-09T20:56:27	2022-11-09T20:57:28	0:01:01	Jamestown	Powers_Steve	Weather	Freezing rain and windy conditions.
	Substation	BRY	236	2022-11-09T21:48:18	2022-11-09T21:48:39	0:00:21	Jamestown	Powers_Steve	Equip Fail Pole	Top of pole burned between Cleveland and Windsor.
	Substation	BRY	235	2022-11-10T03:47:20	2022-11-10T04:33:23	0:46:03	Jamestown	Powers_Steve	Weather	Freezing rain and windy conditions.
	Substation	BRY	236	2022-11-30T20:04:51	2022-11-30T20:10:28	0:05:37	Jamestown	Powers_Steve	Equip Fail Conductor	Phase burned down between Jamestown and Eldridge.
	Substation	BRY	236	2022-12-03T00:06:53	2022-12-03T00:12:48	0:05:55	Jamestown	Powers_Steve	Equip Fail Conductor	Phase burned down between Windsor and Cleveland.
	Substation	BRY	236	2022-12-12T14:39:13	2022-12-12T14:59:40	0:20:27	Jamestown	Powers_Steve	Equip Fail Pole	Burned off pole top between Windsor and Cleveland.
	Substation	BRY	543	2022-06-13T20:44:36	2022-06-13T20:44:57	0:00:21	Rugby	Bartholomay_Seth	Weather	Stormy weather with high winds traveled through the CSC causing blinks
	Substation	B	188	2022-07-09T05:07:47	2022-07-09T05:07:53	0:00:06	Rugby	Bartholomay_Seth	Weather	Storms were rolling through the area. rain, high winds, lightning.
	Substation	RY	355	2022-07-09T05:07:59	2022-07-09T05:08:08	0:00:09	Rugby	Bartholomay_Seth	Weather	Storms were rolling through the area. rain, high winds, lightning.
	Substation	BRY	543	2022-07-10T04:24:26	2022-07-10T04:55:50	0:31:24	Rugby	Bartholomay_Seth	Weather	Storms rolled through the area causing damage throughout its path. rain, lightning and high winds
	Substation	B	188	2022-07-10T04:58:32	2022-07-10T04:58:39	0:00:07	Rugby	Bartholomay_Seth	Weather	Storms rolled through the area causing damage throughout its path. rain, lightning and high winds
	Substation	RY	356	2022-07-10T04:58:39	2022-07-10T04:58:54	0:00:15	Rugby	Bartholomay_Seth	Weather	Storms rolled through the area causing damage throughout its path. rain, lightning and high winds
	Substation	BRY	543	2022-07-26T00:52:14	2022-07-26T00:52:36	0:00:22	Rugby	Bartholomay_Seth	Weather	Storm cell moved through the area.
	Substation	BRY	543	2022-07-30T23:07:23	2022-07-30T23:07:44	0:00:21	Rugby	Bartholomay_Seth	Unknown	CPEC Voltaire Neal Station 185 operated. SEL 17.7 miles. WAPA not confident that the SEL is correct. Patrolled, nothing found.
	Substation	BRY	543	2022-12-16T04:17:06	2022-12-16T05:26:47	1:09:41	Rugby	Bartholomay_Seth	Weather	Icing conditions high winds/blizzard
	Substation	BRY	543	2022-12-16T09:43:04	2022-12-16T09:44:44	0:01:40	Rugby	Bartholomay_Seth	Weather	Icing conditions high winds/blizzard

Equipment ID	Equipment Type	Phase(s)	Customers	Outage Start	Outage End	Duration	Customer Service Center	Region	Cause	Notes
FeederSection	BR		19	2022-05-09T05:43:55	2022-05-09T05:44:15	0:00:20	Wahpeton	Smith_Ryan	Weather	Strong thunderstorms with lots of lightning and heavy rain in the area.
FeederSection	BR		19	2022-06-14T05:38:28	2022-06-14T05:38:40	0:00:12	Wahpeton	Smith_Ryan	Weather	Strong storms with lightning in the area.
FeederSection	R		18	2022-07-11T13:09:45	2022-07-11T13:09:52	0:00:07	Wahpeton	Smith_Ryan	other	We think that large bins that movers were taking through the area hit neutral and made contact with phase we refused and no other problems were found.
FeederSection	R		18	2022-07-28T10:17:45	2022-07-28T10:18:48	0:01:03	Wahpeton	Smith_Ryan	Animal	Squirrel was found below transformer.
FeederSection	BR		19	2022-08-10T13:25:15	2022-08-10T13:55:38	0:30:23	Wahpeton	Smith_Ryan	Vehicle Accident	Excavator made contact with the neutral and tore it down so we had to fix before we reenergized the line.
Substation	R		4	2022-05-15T03:01:24	2022-05-15T03:01:32	0:00:08	Devils_Lake	Devils_Lake	Unknown	Unknown
Substation	R		4	2022-07-14T11:27:42	2022-07-14T11:27:52	0:00:10	Devils_Lake	Devils_Lake	Unknown	Unknown
Substation	R		4	2022-07-18T03:31:07	2022-07-18T03:31:18	0:00:11	Devils_Lake	Devils_Lake	Weather	Weather system moved through with wind and lightning
Substation	R		4	2022-07-18T14:04:46	2022-07-18T14:27:50	0:23:04	Devils_Lake	Devils_Lake	Equip Fail Insulator	Insulator tracked across burning pole top off.
Substation	RBY		146	2022-01-07T14:49:12	2022-01-07T16:24:25	1:35:13	Jamestown	Hoggarth_Tyler	Equip Fail Substation	Regulator failure in the Sykeston sub.
Substation	RBY		146	2022-01-07T16:41:02	2022-01-07T16:43:48	0:02:46	Jamestown	Hoggarth_Tyler	Equip Fail Substation	Regulator failure in the Sykeston sub.
Substation	RBY		146	2022-03-09T12:58:07	2022-03-09T13:53:28	0:55:21	Jamestown	Hoggarth_Tyler	Planned	Replaced regulator and high side arrester in Sykeston Sub.
Substation	RBY		146	2022-04-23T15:28:54	2022-04-23T15:29:18	0:00:24	Jamestown	Hoggarth_Tyler	Weather	Rain, lightning, storms in the area.
Substation	RBY		146	2022-05-09T01:14:57	2022-05-09T01:15:05	0:00:08	Jamestown	Hoggarth_Tyler	Weather	Storms in the area.
Substation	RBY		146	2022-06-14T04:55:22	2022-06-14T04:55:29	0:00:07	Jamestown	Hoggarth_Tyler	Weather	Storm in the area.
Substation	RBY		146	2022-07-10T06:10:28	2022-07-10T06:10:36	0:00:08	Jamestown	Hoggarth_Tyler	Weather	Storms with strong winds, rain, lightning.
Substation	RBY		146	2022-08-11T14:38:50	2022-08-11T14:38:56	0:00:06	Jamestown	Hoggarth_Tyler	Vehicle Accident	Farmer hit down guy and broke pole east of Sykeston on the north side of Hwy 200/52.
Substation	RBY		146	2022-08-15T11:17:02	2022-08-15T11:17:11	0:00:09	Jamestown	Hoggarth_Tyler	Weather	Lightning storm in the area.
Substation	RBY		146	2022-08-26T15:32:16	2022-08-26T15:32:23	0:00:07	Jamestown	Hoggarth_Tyler	Vegetation	SEL reading of 4.3 miles west of Carrington breaker # 535. Line patrolled and found a span of trees getting into transmission line.
Substation	RBY		146	2022-11-12T08:01:37	2022-11-12T08:04:08	0:02:31	Jamestown	Hoggarth_Tyler	Equip Fail Substation	WAPA Carrington failed 115/41.6 transformer.
Substation	RBY		146	2022-12-12T08:31:13	2022-12-12T08:31:21	0:00:08	Jamestown	Hoggarth_Tyler	Equip Fail Insulator	Broken insulator between Carrington 535 and Sykeston 511.
Substation	RBY		146	2022-12-12T10:02:30	2022-12-12T10:02:39	0:00:09	Jamestown	Hoggarth_Tyler	Equip Fail Insulator	Broken insulator between Carrington 535 and Sykeston 511.
Substation	RBY		146	2022-12-12T10:08:51	2022-12-12T10:00:24	1:51:33	Jamestown	Hoggarth_Tyler	Equip Fail Insulator	Broken insulator between Carrington 535 and Sykeston 511.
Substation	RBY		196	2022-01-05T11:06:22	2022-01-05T11:22:51	0:16:29	Jamestown	Erickson_Joe	Equip Fail Conductor	Broken jumper on 3-pole structure north side of 194.
Substation	RBY		196	2022-01-05T14:18:58	2022-01-05T14:19:09	0:00:11	Jamestown	Erickson_Joe	Equip Fail Transformer	Re-fusing cutouts on power bank at Killoran/Richman elevator on south side of tracks.
Substation	RBY		196	2022-01-05T15:27:47	2022-01-05T15:27:57	0:00:10	Jamestown	Erickson_Joe	Equip Fail Transformer	Re-fusing cutouts on power bank at Killoran/Richman elevator on south side of tracks.
Substation	RBY		196	2022-01-05T15:36:33	2022-01-05T15:36:44	0:00:11	Jamestown	Erickson_Joe	Equip Fail Transformer	Re-fusing cutouts on power bank at Killoran/Richman elevator on south side of tracks.
Substation	RBY		196	2022-07-01T10:50:58	2022-07-01T10:51:04	0:00:06	Jamestown	Erickson_Joe	Bird	Bird contact blew high side fuse in Oriska sub.
Substation	RBY		196	2022-10-05T16:17:22	2022-10-05T16:17:28	0:00:06	Jamestown	Erickson_Joe	Equip Fail Substation	Lightning strike blew high side fuse in Fingal Jct Sub, which also burned up several distribution insulators in the sub. Another high side disconnect spring failed. Replacing all 3 high side disconnects.
Substation	RBY		196	2022-11-09T22:49:42	2022-11-09T23:56:55	1:07:13	Jamestown	Erickson_Joe	Weather	Broken ties caused by galloping lines due to freezing rain and windy conditions.
Substation	RBY		196	2022-12-07T17:44:25	2022-12-07T18:30:33	0:46:08	Jamestown	Erickson_Joe	Equip Fail Conductor	Failed splice on transmission between Buffalo 345 sub and Minnkota Tower City tap.
Substation	RBY		196	2022-12-13T11:44:33	2022-12-13T11:44:40	0:00:07	Jamestown	Erickson_Joe	Equip Fail Pole	Broken transmission pole in a slough between Oriska Sub and Fingal Jct Sub.
Substation	RBY		196	2022-12-13T11:47:09	2022-12-13T12:42:04	0:54:55	Jamestown	Erickson_Joe	Equip Fail Pole	Broken transmission pole in a slough between Oriska Sub and Fingal Jct Sub.
Substation	BRY		581	2022-07-10T04:58:31	2022-07-10T04:58:56	0:00:25	Rugby	Larson_Paul	Weather	Storms rolled through the area causing damage throughout its path.
Substation	BRY		581	2022-07-22T21:59:25	2022-07-22T22:07:40	0:08:15	Rugby	Larson_Paul	Weather	rain, lightning and high winds
Substation	BRY		582	2022-07-25T23:36:18	2022-07-25T23:37:26	0:01:08	Rugby	Larson_Paul	Weather	Storm moving through - high winds and lightning
Substation	BRY		583	2022-07-25T23:45:39	2022-07-25T23:46:02	0:00:23	Rugby	Larson_Paul	Weather	Storm cell moved through the area
Substation	BRY		582	2022-07-26T00:02:37	2022-07-26T00:03:00	0:00:23	Rugby	Larson_Paul	Weather	Storm cell moved through the area.
Feeder	BRY		416	2022-05-17T11:14:40	2022-05-17T11:51:40	0:37:00	Rugby	Larson_Paul	Equip Fail Fuse unknown cause	Storm cell moved through the area.
Feeder	BRY		416	2022-05-17T11:14:40	2022-05-17T11:51:40	0:37:00	Rugby	Larson_Paul	Equip Fail Fuse unknown cause	Fuse blew, when SRep put in new fuse it held
Substation	RBY		205	2022-04-24T08:21:22	2022-04-24T08:21:33	0:00:11	Rugby	Gravseth_Chad	Weather	Severe Weather including High winds, Freezing rain, Snow and rain caused Broken poles, switches, Xarms, wire and insulators leading to multiple power outages throughout the area.
Substation	RBY		205	2022-04-24T08:22:25	2022-04-24T08:38:09	0:15:44	Rugby	Gravseth_Chad	Weather	Severe Weather including High winds, Freezing rain, Snow and rain caused Broken poles, switches, Xarms, wire and insulators leading to multiple power outages throughout the area.

Equipment ID	Equipment Type	Phase(s)	Customers	Outage Start	Outage End	Duration	Customer Service Center	Region	Cause	Notes
	Substation	RBY	205	2022-05-09T13:37:54	2022-05-09T13:38:00	0:00:06	Rugby	Gravseth_Chad	Weather	Stormy weather rolled through the area with lightning and heavy winds.
	Substation	RBY	205	2022-06-29T05:01:31	2022-06-29T05:01:38	0:00:07	Rugby	Gravseth_Chad	Unknown	SReps could not find a reason for the quick blink's in the area
	Substation	RBY	205	2022-07-02T23:02:52	2022-07-02T23:02:59	0:00:07	Rugby	Gravseth_Chad	Unknown	SRep could not find a reason for short blink
	Substation	RBY	205	2022-07-04T01:43:30	2022-07-04T01:43:41	0:00:11	Rugby	Gravseth_Chad	Unknown	SRep could not find a reason for short blink
	Substation	RBY	205	2022-07-10T05:10:08	2022-07-10T05:10:21	0:00:13	Rugby	Gravseth_Chad	Weather	Storms rolled through the area causing damage throughout its path.
	Substation	RBY	205	2022-09-23T00:25:22	2022-09-23T00:25:31	0:00:09	Rugby	Gravseth_Chad	Equip Fail Pole	rain, lightning and high winds
	Substation	RBY	205	2022-09-23T01:15:42	2022-09-23T02:38:46	1:23:04	Rugby	Gravseth_Chad	Equip Fail Pole	Replace broken pole.
	Substation	RBY	205	2022-12-12T20:38:23	2022-12-12T20:38:30	0:00:07	Rugby	Gravseth_Chad	Equip Fail Insulator	Insulator tracked across burning pole off
	Substation	RBY	205	2022-12-15T07:59:10	2022-12-15T09:19:35	1:20:25	Rugby	Gravseth_Chad	Weather	Icing conditions high winds/blizzard
	Substation	RBY	205	2022-12-15T09:30:26	2022-12-15T09:34:37	0:04:11	Rugby	Gravseth_Chad	Weather	Icing conditions high winds/blizzard
	Substation	RBY	205	2022-12-15T09:45:03	2022-12-15T10:01:59	0:16:56	Rugby	Gravseth_Chad	Weather	Icing conditions high winds/blizzard
	Substation	RBY	205	2022-12-15T12:51:30	2022-12-15T12:51:37	0:00:07	Rugby	Gravseth_Chad	Weather	Icing conditions high winds/blizzard
	Substation	RBY	205	2022-12-15T12:59:07	2022-12-15T12:59:14	0:00:07	Rugby	Gravseth_Chad	Weather	Icing conditions high winds/blizzard
	Substation	RBY	205	2022-12-15T13:06:29	2022-12-15T13:06:36	0:00:07	Rugby	Gravseth_Chad	Weather	Icing conditions high winds/blizzard
	Substation	RBY	205	2022-12-15T14:25:15	2022-12-15T14:26:03	0:00:48	Rugby	Gravseth_Chad	Weather	Icing conditions high winds/blizzard
	Substation	RBY	205	2022-12-15T14:43:33	2022-12-15T14:43:40	0:00:07	Rugby	Gravseth_Chad	Weather	Icing conditions high winds/blizzard
	Substation	RBY	205	2022-12-15T14:45:29	2022-12-15T14:46:03	0:00:34	Rugby	Gravseth_Chad	Weather	Icing conditions high winds/blizzard
	Substation	RBY	205	2022-12-15T14:47:57	2022-12-15T14:53:44	0:05:47	Rugby	Gravseth_Chad	Weather	Icing conditions high winds/blizzard
	Substation	RBY	205	2022-12-15T15:05:42	2022-12-15T18:04:17	2:58:35	Rugby	Gravseth_Chad	Weather	Icing conditions high winds/blizzard
	Substation	RBY	205	2022-12-15T19:54:10	2022-12-15T19:54:17	0:00:07	Rugby	Gravseth_Chad	Weather	Icing conditions high winds/blizzard
	Substation	RBY	205	2022-12-15T19:59:30	2022-12-15T20:03:15	0:03:45	Rugby	Gravseth_Chad	Weather	Icing conditions high winds/blizzard
	Substation	RBY	205	2022-12-25T07:26:30	2022-12-25T07:26:40	0:00:10	Rugby	Gravseth_Chad	Weather	Blizzard - high winds, ice and snow, broken phase, guy wires and other issues
	Substation	RBY	205	2022-12-25T15:29:09	2022-12-25T15:29:32	0:00:23	Rugby	Gravseth_Chad	Weather	Blizzard - high winds ice and snow - broken phase, guy wires...
	Substation	BRY	139	2022-01-17T01:29:27	2022-01-17T01:34:17	0:04:50	Rugby	Rath_Todd	Unknown	SysOp was able to close in line and had SRep go out the next day to try and find reason for outage. SRep could not find a reason and line has held since original outage.
	Substation	BRY	139	2022-04-10T08:19:19	2022-04-10T08:19:38	0:00:19	Rugby	Rath_Todd	Unknown	SRep could not find a reason for blink
	Substation	BRY	139	2022-04-23T15:27:29	2022-04-23T15:27:53	0:00:24	Rugby	Rath_Todd	Weather	Severe Weather including High winds, Freezing rain, Snow and rain caused Broken poles, switches, Xarms, wire and insulators leading to multiple power outages throughout the area.
	Substation	BRY	138	2022-04-24T07:30:23	2022-04-24T09:49:27	2:19:04	Rugby	Rath_Todd	Weather	Severe Weather including High winds, Freezing rain, Snow and rain caused Broken poles, switches, Xarms, wire and insulators leading to multiple power outages throughout the area. JCH audited 4/30/22
	Substation	BRY	139	2022-05-04T14:01:37	2022-05-04T14:03:05	0:01:28	Rugby	Rath_Todd	Equip Fail Insulator	broken insulator caused a floater.
	Substation	BRY	139	2022-12-12T20:38:29	2022-12-12T23:03:23	2:24:54	Rugby	Rath_Todd	Equip Fail Insulator	Insulator tracked across burning pole off
	Substation	RBY	138	2022-12-17T16:16:26	2022-12-17T16:16:38	0:00:12	Rugby	Rath_Todd	Weather	Icing conditions high winds/blizzard
	Substation	RBY	139	2022-12-22T07:08:41	2022-12-22T09:37:01	2:28:20	Rugby	Rath_Todd	Weather	Blizzard - high winds, ice and snow, broken phase, guy wires and other issues
	Substation	RBY	139	2022-12-25T07:26:31	2022-12-25T07:26:44	0:00:13	Rugby	Rath_Todd	Weather	Blizzard -ice and snow
	Substation	BRY	139	2022-12-25T15:29:09	2022-12-25T15:29:35	0:00:26	Rugby	Rath_Todd	Weather	Blizzard - high winds ice and snow - broken phase, guy wires... Strong storms with straight line winds caused extensive tree damage and several poles to break.
	Substation	RY	29	2022-05-12T19:28:50	2022-05-12T19:29:06	0:00:16	Wahpeton	Smith_Ryan	Weather	
	Substation	BRY	39	2022-06-20T22:51:22	2022-06-20T23:59:56	1:08:34	Wahpeton	Smith_Ryan	Weather	Strong storms with high winds and lightning went through the area.
	Substation	BRY	39	2022-06-24T23:12:33	2022-06-24T23:12:50	0:00:17	Wahpeton	Smith_Ryan	Weather	Strong storms with high winds and lightning in the area.
	Substation	BRY	39	2022-10-29T19:36:56	2022-10-29T19:37:21	0:00:25	Wahpeton	Smith_Ryan	Vehicle Accident	Car went into ditch and broke a pole off
	Substation	RBY	290	2022-09-16T05:45:57	2022-09-16T05:46:06	0:00:09	Fergus_Falls	Obowa_Shannon		
	Substation	BRY	423	2022-04-24T08:21:07	2022-04-24T08:21:34	0:00:27	Rugby	Gravseth_Chad	Weather	Severe Weather including High winds, Freezing rain, Snow and rain caused Broken poles, switches, Xarms, wire and insulators leading to multiple power outages throughout the area.
	Substation	BRY	423	2022-04-24T08:22:11	2022-04-24T09:43:30	1:21:19	Rugby	Gravseth_Chad	Weather	Severe Weather including High winds, Freezing rain, Snow and rain caused Broken poles, switches, Xarms, wire and insulators leading to multiple power outages throughout the area.
	Substation	BRY	418	2022-12-15T12:51:24	2022-12-15T12:51:43	0:00:19	Rugby	Gravseth_Chad	Weather	Icing conditions high winds/blizzard
	Substation	BRY	418	2022-12-15T12:59:01	2022-12-15T12:59:20	0:00:19	Rugby	Gravseth_Chad	Weather	Icing conditions high winds/blizzard
	Substation	BRY	418	2022-12-15T13:06:24	2022-12-15T13:06:42	0:00:18	Rugby	Gravseth_Chad	Weather	Icing conditions high winds/blizzard
	Substation	BRY	418	2022-12-15T14:25:10	2022-12-15T14:26:09	0:00:59	Rugby	Gravseth_Chad	Weather	Icing conditions high winds/blizzard
	Substation	BRY	418	2022-12-15T14:43:28	2022-12-15T14:43:46	0:00:18	Rugby	Gravseth_Chad	Weather	Icing conditions high winds/blizzard
	Substation	BRY	418	2022-12-15T14:45:24	2022-12-15T14:46:09	0:00:45	Rugby	Gravseth_Chad	Weather	Icing conditions high winds/blizzard
	Substation	BRY	418	2022-12-15T14:47:52	2022-12-15T14:53:50	0:05:58	Rugby	Gravseth_Chad	Weather	Icing conditions high winds/blizzard
	Substation	BRY	421	2022-12-15T15:05:37	2022-12-15T15:27:42	0:22:05	Rugby	Gravseth_Chad	Weather	Icing conditions high winds/blizzard

Equipment ID	Equipment Type	Phase(s)	Customers	Outage Start	Outage End	Duration	Customer Service Center	Region	Cause	Notes
	Substation	BRY	418	2022-12-15T15:46:25	2022-12-15T15:46:43	0:00:18	Rugby	Gravseth_Chad	Weather	Icing conditions high winds/blizzard
	Substation	BRY	419	2022-12-15T16:19:48	2022-12-15T16:20:06	0:00:18	Rugby	Gravseth_Chad	Weather	Icing conditions high winds/blizzard
	Substation	BRY	415	2022-12-15T16:24:53	2022-12-15T16:25:11	0:00:18	Rugby	Gravseth_Chad	Weather	Icing conditions high winds/blizzard
	Substation	BRY	420	2022-12-15T19:54:05	2022-12-15T19:54:24	0:00:19	Rugby	Gravseth_Chad	Weather	Icing conditions high winds/blizzard
	Substation	BRY	417	2022-12-15T19:59:25	2022-12-15T20:03:22	0:03:57	Rugby	Gravseth_Chad	Weather	Icing conditions high winds/blizzard
	Substation	BRY	423	2022-12-25T07:26:25	2022-12-25T07:26:47	0:00:22	Rugby	Gravseth_Chad	Weather	Blizzard - high winds, ice and snow, broken phase, guy wires and other issues
	Substation	BRY	423	2022-12-25T15:29:09	2022-12-25T15:29:38	0:00:29	Rugby	Gravseth_Chad	Weather	Blizzard - high winds ice and snow - broken phase, guy wires...
	Feeder	B	104	2022-07-19T11:02:10	2022-07-19T11:02:38	0:00:28	Rugby	Gravseth_Chad	Unknown	Unknown
	Feeder	B	104	2022-07-21T11:10:44	2022-07-21T11:11:08	0:00:24	Rugby	Gravseth_Chad	Unknown	Unknown
	Feeder	R	104	2022-11-14T09:49:32	2022-11-14T09:50:41	0:01:09	Rugby	Gravseth_Chad	Unknown	Unknown
	Feeder	R	104	2022-11-14T11:41:29	2022-11-14T11:42:14	0:00:45	Rugby	Gravseth_Chad	Unknown	Unknown
	Substation	RBV	10	2022-06-14T06:03:51	2022-06-14T06:04:00	0:00:09	Jamestown	Bruner_Brent	Weather	Storm in the area.
	Substation	RBV	10	2022-06-20T18:46:26	2022-06-20T18:47:35	0:01:09	Jamestown	Bruner_Brent	Weather	Storms in the area.
	Substation	RBV	10	2022-06-24T20:17:54	2022-06-24T20:18:01	0:00:07	Jamestown	Bruner_Brent	Weather	Storm in the area.
	Substation	RBV	10	2022-07-18T21:33:44	2022-07-18T21:34:50	0:01:06	Jamestown	Bruner_Brent	Weather	Storm passing through the area.
	Substation	RBV	838	2022-06-13T20:44:45	2022-06-13T20:45:46	0:01:01	Rugby	Dillow_James	Weather	Stormy weather with high winds traveled through the CSC causing blinks
	Substation	RBV	838	2022-07-10T04:24:31	2022-07-10T06:30:37	2:06:06	Rugby	Dillow_James	Weather	Storms rolled through the area causing damage throughout its path. rain, lightning and high winds. JCH Audited 7/28/22
	Substation	RBV	838	2022-07-30T23:07:29	2022-07-30T23:07:49	0:00:20	Rugby	Dillow_James	Unknown	CPEC Voltaire Neal Station 185 operated. SEL 17.7 miles. WAPA not confident that the SEL is correct. Patrolled, nothing found.
	Substation	RBV	838	2022-08-18T03:35:02	2022-08-18T03:46:53	0:11:51	Rugby	Dillow_James	Weather	Severe storm moved through
	Feeder	RBV	485	2022-08-17T08:30:25	2022-08-17T12:42:21	4:11:56	Rugby	Dillow_James	Itron meter voltage source failure	Account disconnected for nonpayment
	Substation	RBV	92	2022-04-01T22:10:39	2022-04-01T22:57:05	0:46:26	Jamestown	Grosgebauer_John	Equip Fail Insulator	Insulator tracked and caused pole to burn off at the crossarm through bolt.
	Substation	RBV	92	2022-04-17T23:41:36	2022-04-17T23:41:45	0:00:09	Jamestown	Grosgebauer_John	Unknown	Unknown and not patrolled.
	Substation	RBV	92	2022-04-18T00:21:11	2022-04-18T00:21:18	0:00:07	Jamestown	Grosgebauer_John	Unknown	Unknown and not patrolled.
	Substation	RBV	92	2022-04-22T22:18:48	2022-04-22T22:18:55	0:00:07	Jamestown	Grosgebauer_John	Weather	Storms in the area.
	Substation	RBV	92	2022-04-22T22:42:39	2022-04-22T22:42:46	0:00:07	Jamestown	Grosgebauer_John	Weather	Storms in the area.
	Substation	RBV	92	2022-05-12T18:56:57	2022-05-12T18:57:03	0:00:06	Jamestown	Grosgebauer_John	Weather	Storms in the area.
	Substation	RBV	92	2022-06-10T18:30:19	2022-06-10T18:32:29	0:02:10	Jamestown	Grosgebauer_John	Equip Fail Substation	A regulator failed in the Verona Sub.
	Substation	RBV	92	2022-06-14T05:16:57	2022-06-14T05:17:02	0:00:05	Jamestown	Grosgebauer_John	Weather	Storm in the area.
	Substation	RBV	92	2022-06-14T05:38:01	2022-06-14T05:38:37	0:00:36	Jamestown	Grosgebauer_John	Weather	Storm in the area.
	Substation	RBV	92	2022-06-24T21:15:24	2022-06-24T21:15:30	0:00:06	Jamestown	Grosgebauer_John	Weather	Storm in the area.
	Substation	RBV	92	2022-06-24T21:50:31	2022-06-24T21:50:34	0:00:03	Jamestown	Grosgebauer_John	Weather	Storm in the area.
	Substation	RBV	92	2022-06-29T23:31:59	2022-06-29T23:32:07	0:00:08	Jamestown	Grosgebauer_John	Vegetation	Tree blew over in the storm and caused downed conductor near 501 2nd Ave, Berlin.
	Substation	RBV	92	2022-11-06T11:37:07	2022-11-06T11:37:12	0:00:05	Jamestown	Grosgebauer_John	Weather	Strong winds with flying debris.
	Substation	RBV	92	2022-11-09T18:49:19	2022-11-09T20:04:21	1:15:02	Jamestown	Grosgebauer_John	Weather	Ice on the line with windy conditions
	Feeder	RBV	106	2022-05-30T19:32:28	2022-05-30T19:32:34	0:00:06	Wahpeton	Wahpeton	Weather	Several strong storms went through the area with high winds and lightning.
	Feeder	RBV	106	2022-06-29T02:09:28	2022-06-29T02:10:32	0:01:04	Wahpeton	Wahpeton	Weather	Strong storms with wind and rain in the area
	Feeder	RBV	106	2022-07-20T20:53:35	2022-07-20T20:53:42	0:00:07	Wahpeton	Wahpeton	Vegetation	After patrols we found some trees that are close to line so we will trim them up in the next few days
	Feeder	RBV	106	2022-08-21T14:47:04	2022-08-21T14:47:09	0:00:05	Wahpeton	Wahpeton	Unknown	Did line patrol to area that was indicated by sel reading and nothing was found. There is a high number of hawks in the area due to migration.
	Feeder	RBV	106	2022-10-23T21:53:17	2022-10-23T21:54:20	0:01:03	Wahpeton	Wahpeton	Unknown	SEL reading of 7.3 miles so we are patrolling all three directions to find issue.
	Feeder	RBV	106	2022-11-02T15:46:48	2022-11-02T17:07:59	1:21:11	Wahpeton	Wahpeton	Vehicle Accident	Farmer hit line
	Substation	RBV	48	2022-06-19T05:22:19	2022-06-19T05:22:27	0:00:08	Rugby	Dillow_James	Unknown	SRep could not find a reason for the blink
	Substation	RBV	48	2022-07-02T22:21:53	2022-07-02T22:21:58	0:00:05	Rugby	Dillow_James	Unknown	SRep could not find a reason for short blink
	Substation	RBV	48	2022-07-16T03:39:18	2022-07-16T03:39:22	0:00:04	Rugby	Dillow_James	Unknown	SRep could not find an exact reason for the blink.
	Substation	RBV	48	2022-08-01T08:15:47	2022-08-01T08:15:53	0:00:06	Rugby	Dillow_James	Unknown	Unknown
	Substation	RBV	48	2022-08-14T03:45:32	2022-08-14T03:45:36	0:00:04	Rugby	Dillow_James	Unknown	unknown
	Substation	RBV	48	2022-08-15T08:48:22	2022-08-15T08:48:30	0:00:08	Rugby	Dillow_James	Weather	Storm cell moved through the area.
	Substation	RBV	48	2022-08-18T00:52:26	2022-08-18T03:17:43	2:25:17	Rugby	Dillow_James	Weather	Severe storm broke conductor and 4 insulators
	Substation	RBV	48	2022-08-18T20:13:27	2022-08-18T20:13:32	0:00:05	Rugby	Dillow_James	Weather	Severe storm moved through
	Substation	RBV	48	2022-10-24T02:55:42	2022-10-24T02:55:50	0:00:08	Rugby	Dillow_James	Weather	Storm system moved through the area
	Substation	RBV	221	2022-04-23T18:01:13	2022-04-23T18:03:11	0:01:58	Rugby	Lee_James	Weather	Severe Weather including High winds, Freezing rain, Snow and rain caused Broken poles, switches, Xarms, wire and insulators leading to multiple power outages throughout the area.

Equipment ID	Equipment Type	Phase(s)	Customers	Outage Start	Outage End	Duration	Customer Service Center	Region	Cause	Notes
	Substation	RBY	221	2022-04-23T22:29:02	2022-04-24T01:02:44	2:33:42	Rugby	Lee_James	Weather	Severe Weather including High winds, Freezing rain, Snow and rain caused Broken poles, switches, Xarms, wire and insulators leading to multiple power outages throughout the area. JCH audited 4/30/22
	Substation	RBY	221	2022-04-24T08:46:58	2022-04-24T08:47:06	0:00:08	Rugby	Lee_James	Weather	Severe Weather including High winds, Freezing rain, Snow and rain caused Broken poles, switches, Xarms, wire and insulators leading to multiple power outages throughout the area.
	Substation	RBY	221	2022-04-24T08:47:48	2022-04-24T08:47:48	0:00:00	Rugby	Lee_James	Weather	Severe Weather including High winds, Freezing rain, Snow and rain caused Broken poles, switches, Xarms, wire and insulators leading to multiple power outages throughout the area.
	Substation	RBY	221	2022-04-24T12:00:22	2022-04-24T12:00:51	0:00:29	Rugby	Lee_James	Weather	Severe Weather including High winds, Freezing rain, Snow and rain caused Broken poles, switches, Xarms, wire and insulators leading to multiple power outages throughout the area.
	Substation	RBY	221	2022-04-24T12:01:52	2022-04-24T12:02:03	0:00:11	Rugby	Lee_James	Weather	Severe Weather including High winds, Freezing rain, Snow and rain caused Broken poles, switches, Xarms, wire and insulators leading to multiple power outages throughout the area.
	Substation	RBY	221	2022-04-24T12:03:04	2022-04-24T12:03:38	0:00:34	Rugby	Lee_James	Weather	Severe Weather including High winds, Freezing rain, Snow and rain caused Broken poles, switches, Xarms, wire and insulators leading to multiple power outages throughout the area.
	Substation	RBY	221	2022-04-24T12:50:12	2022-04-24T14:06:18	1:16:06	Rugby	Lee_James	Weather	Severe Weather including High winds, Freezing rain, Snow and rain caused Broken poles, switches, Xarms, wire and insulators leading to multiple power outages throughout the area.
	Substation	RBY	221	2022-04-24T14:49:57	2022-04-24T14:50:02	0:00:05	Rugby	Lee_James	Weather	Severe Weather including High winds, Freezing rain, Snow and rain caused Broken poles, switches, Xarms, wire and insulators leading to multiple power outages throughout the area.
	Substation	RBY	221	2022-04-24T15:53:16	2022-04-24T15:53:22	0:00:06	Rugby	Lee_James	Weather	Severe Weather including High winds, Freezing rain, Snow and rain caused Broken poles, switches, Xarms, wire and insulators leading to multiple power outages throughout the area.
	Substation	RBY	221	2022-04-24T17:47:13	2022-04-24T17:47:17	0:00:04	Rugby	Lee_James	Weather	Severe Weather including High winds, Freezing rain, Snow and rain caused Broken poles, switches, Xarms, wire and insulators leading to multiple power outages throughout the area.
	Substation	RBY	221	2022-05-07T19:19:10	2022-05-07T19:24:33	0:05:23	Rugby	Lee_James	Weather	Ice storm caused insulator's, Crossarms and pole damage.
	Substation	RBY	221	2022-06-24T17:05:39	2022-06-24T17:05:46	0:00:07	Rugby	Lee_James	Unknown	SRep could not find an exact reason for the blink.
	Substation	RBY	221	2022-06-24T17:45:39	2022-06-24T17:45:45	0:00:06	Rugby	Lee_James	Unknown	SRep could not find an exact reason for the blink.
	Substation	RBY	221	2022-07-09T08:33:54	2022-07-09T11:20:36	2:46:42	Rugby	Lee_James	Weather	Storms were rolling through the area. rain, high winds, lightning. JCH Audited 7/28/22
	Substation	RBY	221	2022-07-10T03:53:57	2022-07-10T03:54:07	0:00:10	Rugby	Lee_James	Weather	Storms rolled through the area causing damage throughout its path. rain, lightning, high winds
	Substation	RBY	221	2022-08-24T13:43:43	2022-08-24T13:43:49	0:00:06	Rugby	Lee_James	Unknown	No cause found on line petrol, but did notice Hawks East of Max ND
	Feeder	RBY	31	2022-07-18T12:13:46	2022-07-18T12:43:33	0:29:47	Wahpeton	Smith_Ryan	Equip Fail Underground	UG fault near Central Stores
	Feeder	RBY	31	2022-09-25T16:24:46	2022-09-25T18:41:50	2:17:04	Wahpeton	Smith_Ryan	Planned	House move in the area
	Feeder	RBY	31	2022-09-25T21:11:12	2022-09-25T21:17:45	0:06:33	Wahpeton	Smith_Ryan	Planned	House move in the area
	SubstationBank	RY	202	2022-05-09T05:43:53	2022-05-09T05:44:21	0:00:28	Wahpeton	Wahpeton		
	SubstationBank	RY	202	2022-06-14T05:38:14	2022-06-14T05:39:24	0:01:10	Wahpeton	Wahpeton	Weather	Strong storms with lightning in the area.
	Feeder	B	2	2022-05-09T05:43:56	2022-05-09T05:44:21	0:00:25	Wahpeton	Wahpeton	Weather	Strong thunderstorms with lots of lightning and heavy rain in the area.
	Feeder	B	2	2022-05-09T08:06:56	2022-05-09T09:48:07	1:41:11	Wahpeton	Wahpeton	Weather	Strong thunderstorms with lots of lightning and heavy rain in the area.
	Feeder	B	2	2022-06-14T05:38:15	2022-06-14T05:38:34	0:00:19	Wahpeton	Wahpeton	Weather	Strong storms with lightning in the area.
	Feeder	BRY	994	2022-05-09T05:43:56	2022-05-09T05:44:21	0:00:25	Wahpeton	Wahpeton		
	Feeder	RBY	994	2022-06-14T05:38:16	2022-06-14T05:39:24	0:01:08	Wahpeton	Wahpeton	Weather	Strong storms with lightning in the area.
	Feeder	B	4	2022-05-09T05:43:54	2022-05-09T05:44:21	0:00:27	Wahpeton	Wahpeton		
	Feeder	B	4	2022-06-14T05:38:14	2022-06-14T05:38:37	0:00:23	Wahpeton	Wahpeton	Weather	Strong storms with lightning in the area.
	Feeder	B	101	2022-05-09T05:43:56	2022-05-09T05:44:20	0:00:24	Wahpeton	Wahpeton		
	Feeder	B	101	2022-06-14T05:38:14	2022-06-14T05:38:41	0:00:27	Wahpeton	Wahpeton	Weather	Strong storms with lightning in the area.
	Feeder	RBY	898	2022-05-09T05:43:56	2022-05-09T05:44:19	0:00:23	Wahpeton	Smith_Ryan	Weather	Strong thunderstorms with lots of lightning and heavy rain in the area.
	Feeder	RBY	898	2022-05-12T19:27:09	2022-05-12T19:27:32	0:00:23	Wahpeton	Smith_Ryan	Weather	Strong storms with straight line winds caused extensive tree damage and several poles to break.
	Feeder	RBY	898	2022-05-12T19:28:11	2022-05-12T19:28:35	0:00:24	Wahpeton	Smith_Ryan	Weather	Strong storms with straight line winds caused extensive tree damage and several poles to break.
	Feeder	RBY	898	2022-06-14T05:38:14	2022-06-14T05:38:26	0:00:12	Wahpeton	Smith_Ryan	Weather	Storms with lots of lightning in the whole area.

Equipment ID	Equipment Type	Phase(s)	Customers	Outage Start	Outage End	Duration	Customer Service Center	Region	Cause	Notes
	Feeder	RBY	898	2022-08-03T15:50:15	2022-08-03T15:50:27	0:00:12	Wahpeton	Smith_Ryan	Equip Fail Underground	UG fault south of Sub before crossing to MN. only effected 3 customers for longer outage all saw the blink
	Feeder	RBY	898	2022-09-01T15:10:25	2022-09-01T15:10:46	0:00:21	Wahpeton	Smith_Ryan	Itron meter failure	No customer calls.
	Feeder	BRY	540	2022-05-09T05:43:56	2022-05-09T05:44:51	0:00:55	Wahpeton	Smith_Ryan	Weather	Strong thunderstorms with lots of lightning and heavy rain in the area.
	Feeder	BRY	541	2022-06-14T05:38:16	2022-06-14T05:39:20	0:01:04	Wahpeton	Smith_Ryan	Weather	Strong storms with lightning in the area.
	Feeder	RY	391	2022-09-29T13:06:07	2022-09-29T13:11:17	0:05:10	Wahpeton	Smith_Ryan	Itron meter failure	Itron meters were getting worked on as we had no outages called in.
	Feeder	RY	391	2022-09-29T13:18:29	2022-09-29T13:20:59	0:02:30	Wahpeton	Smith_Ryan	Itron meter failure	Itron meters were getting worked on as we had no outages called in.
	Substation	BYR	172	2022-05-09T05:56:53	2022-05-09T05:57:11	0:00:18	Wahpeton	Ogren_Dwight	Weather	Strong thunderstorms with lots of lightning and heavy rain in the area. Momentary on transmission line caused aoutage from Wahpeton all the way to open
	Substation	BYR	172	2022-05-31T02:53:44	2022-05-31T02:54:00	0:00:16	Wahpeton	Ogren_Dwight	Unknown	
	Substation	BYR	172	2022-06-14T05:41:14	2022-06-14T05:41:34	0:00:20	Wahpeton	Ogren_Dwight	Weather	Strong storms with lightning in the area.
	Substation	BY	115	2022-07-19T02:48:12	2022-07-19T02:48:18	0:00:06	Wahpeton	Ogren_Dwight	Weather	Storms with lightning in the area
	Substation	BYR	172	2022-07-22T12:59:15	2022-07-22T12:59:37	0:00:22	Wahpeton	Ogren_Dwight	Bird	Bird in Galcutt sub caused blink
	Substation	BYR	172	2022-07-31T04:29:12	2022-07-31T04:29:33	0:00:21	Wahpeton	Ogren_Dwight	Weather	Storms with lots of lightning in the area.
	Substation	BYR	172	2022-09-02T20:13:07	2022-09-02T20:13:28	0:00:21	Wahpeton	Ogren_Dwight	Unknown	No customer calls, 41.6 breaker operated we will patrol when we get time.
	Substation	BYR	172	2022-09-29T13:53:18	2022-09-29T13:53:38	0:00:20	Wahpeton	Ogren_Dwight	other	OTP relay techs tripped out breaker while working in the Wahpeton 230 sub.
	Substation	BYR	172	2022-11-10T14:20:57	2022-11-10T14:59:25	0:38:28	Wahpeton	Ogren_Dwight	Weather	Ice on trees caused us to shut down the line to cut them out.
	Substation	BY	115	2022-11-11T10:16:32	2022-11-11T10:16:35	0:00:03	Wahpeton	Ogren_Dwight	Weather	Ice on lines caused multiple outages.
	Substation	BY	115	2022-11-11T10:41:38	2022-11-11T10:41:43	0:00:05	Wahpeton	Ogren_Dwight	Weather	Ice on lines caused multiple outages.
	Feeder	RBY	4	2022-04-07T01:58:00	2022-04-07T02:01:27	0:03:27	Crookston	Boyer_Arlen	Unknown	Minnkota issue
	Feeder	RBY	4	2022-07-22T23:38:47	2022-07-22T23:46:25	0:07:38	Crookston	Boyer_Arlen	Equip Fail Other	Minnkota had issues and they were able to switch Walhalla back in
	Feeder	RBY	4	2022-08-05T09:16:14	2022-08-05T09:16:19	0:00:05	Crookston	Boyer_Arlen		
	Feeder	RBY	4	2022-10-15T16:16:24	2022-10-15T16:16:43	0:00:19	Crookston	Boyer_Arlen		
	Feeder	RBY	295	2022-02-25T13:30:17	2022-02-25T16:32:48	3:02:31	Crookston	Boyer_Arlen	Planned	Replace pole that was hit, approx. 25 customers affected
	Feeder	RBY	295	2022-04-06T15:00:52	2022-04-06T15:01:02	0:00:10	Crookston	Boyer_Arlen		
	Feeder	RBY	295	2022-04-06T15:23:36	2022-04-06T17:03:30	1:39:54	Crookston	Boyer_Arlen	Vegetation	Top of tree of broke off and went through conductor and took it down
	Feeder	RBY	295	2022-04-07T01:57:55	2022-04-07T02:01:24	0:03:29	Crookston	Boyer_Arlen	Unknown	Minnkota issue
	Feeder	RBY	295	2022-07-22T23:39:05	2022-07-22T23:46:43	0:07:38	Crookston	Boyer_Arlen	Equip Fail Other	Minnkota had issues and they were able to switch Walhalla back in
	Feeder	RBY	295	2022-10-15T16:16:23	2022-10-15T16:16:42	0:00:19	Crookston	Boyer_Arlen		
	FeederSection	RBY	362	2022-09-29T10:15:24	2022-09-29T10:18:46	0:03:22	Wahpeton	Wahpeton	Itron meter failure	Itron meters were getting worked on as we had no outages called in.
	FeederSection	RBY	362	2022-09-29T10:29:23	2022-09-29T10:32:42	0:03:19	Wahpeton	Wahpeton	Itron meter failure	Itron meters were getting worked on as we had no outages called in.
	Substation	RBY	113	2022-02-01T05:25:28	2022-02-01T08:43:57	3:18:29	Jamestown	Midstokke_Ryne	Weather	Strong winds in the area. Investigated, but no cause found. JCH audited 2/28/22
	Substation	RBY	113	2022-02-18T08:41:31	2022-02-18T09:28:35	0:47:04	Jamestown	Midstokke_Ryne	Equip Fail Conductor	#4 ACSR phase contacted 1/0 neutral due to strong winds. Re-sagged primary.
	Substation	RBY	113	2022-02-18T10:26:55	2022-02-18T10:43:14	0:16:19	Jamestown	Midstokke_Ryne	Equip Fail Conductor	#4 ACSR phase contacted 1/0 neutral due to strong winds. Re-sagged primary.
	Substation	RBY	113	2022-02-18T10:46:19	2022-02-18T10:48:41	0:02:22	Jamestown	Midstokke_Ryne	Equip Fail Conductor	#4 ACSR phase contacted 1/0 neutral due to strong winds. Re-sagged primary.
	Substation	RBY	113	2022-02-18T10:50:34	2022-02-18T11:32:07	0:41:33	Jamestown	Midstokke_Ryne	Equip Fail Conductor	#4 ACSR phase contacted 1/0 neutral due to strong winds. Re-sagged primary.
	Substation	RBY	113	2022-02-18T12:02:54	2022-02-18T12:23:48	0:20:54	Jamestown	Midstokke_Ryne	Equip Fail Conductor	#4 ACSR phase contacted 1/0 neutral due to strong winds. Re-sagged primary.
	Substation	RBY	113	2022-05-05T08:43:22	2022-05-05T08:43:36	0:00:14	Jamestown	Midstokke_Ryne	Unknown	Unknown and not investigated.
	Substation	RBY	113	2022-05-12T20:20:10	2022-05-12T20:20:17	0:00:07	Jamestown	Midstokke_Ryne	Weather	Storms in the area.
	Substation	RBY	113	2022-06-14T06:30:27	2022-06-14T06:30:34	0:00:07	Jamestown	Midstokke_Ryne	Weather	Storm in the area.
	Substation	RBY	113	2022-06-20T18:46:35	2022-06-20T18:46:45	0:00:10	Jamestown	Midstokke_Ryne	Weather	Storms in the area.
	Substation	RBY	113	2022-08-19T18:57:51	2022-08-19T18:57:59	0:00:08	Jamestown	Midstokke_Ryne	Unknown	SEL indicated between Hannaford and Walum. Line patrolled but no cause found. There was lightning and rain in the area.
	Substation	BY	77	2022-01-11T15:06:00	2022-01-14T15:06:00	72:00:00	Jamestown	Midstokke_Ryne	Itron meter failure	Unknown. No duration of an interruption. No email notification. Notified R.Jensen.
	Substation	RBY	113	2022-02-01T05:25:31	2022-02-01T08:44:06	3:18:35	Jamestown	Midstokke_Ryne	Weather	Strong winds in the area. Investigated, but no cause found. JCH audited 2/28/22

Equipment ID	Equipment Type	Phase(s)	Customers	Outage Start	Outage End	Duration	Customer Service Center	Region	Cause	Notes
	Substation	RBY	113	2022-02-18T08:41:33	2022-02-18T09:28:41	0:47:08	Jamestown	Midstokke_Ryne	Equip Fail Conductor	#4 ACSR phase contacted 1/0 neutral due to strong winds. Re-sagged primary.
	Substation	RBY	113	2022-02-18T10:27:04	2022-02-18T10:43:25	0:16:21	Jamestown	Midstokke_Ryne	Equip Fail Conductor	#4 ACSR phase contacted 1/0 neutral due to strong winds. Re-sagged primary.
	Substation	RBY	113	2022-02-18T10:46:28	2022-02-18T10:48:51	0:02:23	Jamestown	Midstokke_Ryne	Equip Fail Conductor	#4 ACSR phase contacted 1/0 neutral due to strong winds. Re-sagged primary.
	Substation	RBY	113	2022-02-18T10:50:43	2022-02-18T11:32:14	0:41:31	Jamestown	Midstokke_Ryne	Equip Fail Conductor	#4 ACSR phase contacted 1/0 neutral due to strong winds. Re-sagged primary.
	Substation	RBY	113	2022-02-18T12:03:03	2022-02-18T12:23:57	0:20:54	Jamestown	Midstokke_Ryne	Equip Fail Conductor	#4 ACSR phase contacted 1/0 neutral due to strong winds. Re-sagged primary.
	Substation	BY	77	2022-02-23T00:07:26	2022-02-26T00:07:26	72:00:00	Jamestown	Midstokke_Ryne	Itron meter failure Itron meter voltage source failure	Itron meter failure.
	Substation	BY	77	2022-03-24T00:07:10	2022-03-27T00:07:10	72:00:00	Jamestown	Midstokke_Ryne	source failure	Unknown. No outage duration.
	Substation	RBY	113	2022-05-05T08:43:22	2022-05-05T08:43:45	0:00:23	Jamestown	Midstokke_Ryne	Unknown	Unknown and not investigated.
	Substation	RBY	113	2022-05-12T20:20:18	2022-05-12T20:20:26	0:00:08	Jamestown	Midstokke_Ryne	Weather	Storms in the area.
	Substation	RBY	113	2022-06-14T06:30:17	2022-06-14T06:30:23	0:00:06	Jamestown	Midstokke_Ryne	Weather	Storm in the area.
	Substation	RBY	113	2022-06-20T18:46:23	2022-06-20T18:46:34	0:00:11	Jamestown	Midstokke_Ryne	Weather	Storms in the area.
	Substation	BY	77	2022-06-26T00:07:22	2022-06-29T00:07:22	72:00:00	Jamestown	Midstokke_Ryne	Itron meter failure	Interruption duration not recorded. Reported to R.Jensen.
	Substation	RBY	113	2022-08-19T18:58:01	2022-08-19T18:58:09	0:00:08	Jamestown	Midstokke_Ryne	Unknown	SEL indicated between Hannaford and Walum. Line patrolled but no cause found. There was lightning and rain in the area.
	Substation	RBY	113	2022-08-21T07:38:37	2022-08-21T07:38:45	0:00:08	Jamestown	Midstokke_Ryne	Unknown	Unknown and not patrolled.
	Substation	BY	77	2022-08-24T00:07:19	2022-08-27T00:07:19	72:00:00	Jamestown	Midstokke_Ryne	Itron meter voltage source failure	Interruption duration not recorded. Reported to R.Jensen.
	Substation	BY	77	2022-09-26T00:07:13	2022-09-29T00:07:13	72:00:00	Jamestown	Midstokke_Ryne	Itron meter voltage source failure	Interruption duration not recorded. Reported to R.Jensen.
	Substation	BY	77	2022-10-25T00:07:21	2022-10-28T00:07:21	72:00:00	Jamestown	Midstokke_Ryne	source failure	Interruption duration not recorded. Reported to R.Jensen.
	Substation	BY	77	2022-11-27T00:07:19	2022-11-30T00:07:19	72:00:00	Jamestown	Midstokke_Ryne	Itron meter failure	RDJ 1/1/23
	Substation	BY	77	2022-12-27T00:07:06	2022-12-27T00:07:06	0:00:00	Jamestown	Midstokke_Ryne	Itron meter voltage source failure	Interruption logged but no duration logged. This event has occurred in the past and reported.
	Substation	RBY	70	2022-03-13T15:15:26	2022-03-13T15:15:33	0:00:07	Devils_Lake	Chase_Scott	Unknown	Unknown
	Substation	RBY	70	2022-03-14T11:35:46	2022-03-14T11:36:02	0:00:16	Devils_Lake	Chase_Scott	Unknown	Unknown
	Substation	RBY	70	2022-03-14T22:56:42	2022-03-14T22:56:57	0:00:15	Devils_Lake	Chase_Scott	Unknown	Unknown
	Substation	RBY	70	2022-03-15T11:32:36	2022-03-15T11:32:51	0:00:15	Devils_Lake	Chase_Scott	Unknown	Unknown
	Substation	RBY	70	2022-04-23T05:56:13	2022-04-23T05:56:35	0:00:22	Devils_Lake	Chase_Scott	Weather	Significant thunder storm/ice storm/extremely high wind event - lines slapping together, trees, icing galloping lines, broken ties, broken insulators, broken poles.
	Substation	RBY	70	2022-05-09T02:33:05	2022-05-09T02:33:29	0:00:24	Devils_Lake	Chase_Scott	Weather	Storm moved through area
	Substation	RBY	70	2022-05-11T20:53:17	2022-05-11T20:53:23	0:00:06	Devils_Lake	Chase_Scott	Unknown	Unknown
	Substation	RBY	70	2022-06-05T17:34:03	2022-06-05T18:02:36	0:28:33	Devils_Lake	Chase_Scott	other	Farmer burning burnt pole off.
	Substation	RBY	70	2022-06-15T06:32:59	2022-06-15T06:33:06	0:00:07	Devils_Lake	Chase_Scott	Equip Fail Pole	Broken pole due to storm moving through the area.
	Substation	RBY	70	2022-06-24T17:28:09	2022-06-24T17:28:17	0:00:08	Devils_Lake	Chase_Scott	Weather	Severe storm moved through. Lightning struck 4 poles
	Substation	RBY	70	2022-06-24T18:12:14	2022-06-24T18:12:21	0:00:07	Devils_Lake	Chase_Scott	Lightning	Storm through the area. 4 poles took shots of lightning. 3 by McVillev and one by Fort Totten
	Substation	RBY	70	2022-07-15T15:16:40	2022-07-15T15:16:46	0:00:06	Devils_Lake	Chase_Scott	Unknown	Unknown
	Substation	RBY	70	2022-07-22T23:38:43	2022-07-22T23:38:50	0:00:07	Devils_Lake	Chase_Scott	Weather	Storm moving through - high winds and lightning
	Substation	RBY	70	2022-07-22T23:55:38	2022-07-22T23:55:44	0:00:06	Devils_Lake	Chase_Scott	Weather	Storm moving through - high winds and lightning
	Substation	RBY	70	2022-07-23T00:03:39	2022-07-23T00:04:36	0:00:57	Devils_Lake	Chase_Scott	Weather	Storm moving through - high winds and lightning
	Substation	RBY	70	2022-08-30T18:54:37	2022-08-30T18:54:44	0:00:07	Devils_Lake	Chase_Scott	Unknown	Unknown
	Substation	RBY	70	2022-09-04T07:48:30	2022-09-04T07:48:44	0:00:14	Devils_Lake	Chase_Scott	Unknown	Unknown
	Substation	RBY	70	2022-12-15T11:47:04	2022-12-15T11:47:12	0:00:08	Devils_Lake	Chase_Scott	Weather	Icing - blizzard conditions high winds
	Substation	R	2	2022-02-01T02:39:47	2022-02-01T11:32:16	8:52:29	Devils_Lake	Chase_Scott	Equip Fail Fuse unknown cause	High side fuse blew. Blizzard conditions. JCH audited 2/28/22
	Substation	R	2	2022-03-13T15:15:17	2022-03-13T15:15:33	0:00:16	Devils_Lake	Chase_Scott	Unknown	Unknown
	Substation	R	2	2022-03-14T11:35:46	2022-03-14T11:36:02	0:00:16	Devils_Lake	Chase_Scott	Unknown	Unknown
	Substation	R	2	2022-03-14T22:56:42	2022-03-14T22:56:57	0:00:15	Devils_Lake	Chase_Scott	Unknown	Unknown
	Substation	R	2	2022-03-15T11:32:36	2022-03-15T11:32:51	0:00:15	Devils_Lake	Chase_Scott	Unknown	Unknown
	Substation	R	2	2022-04-23T05:56:28	2022-04-23T05:56:35	0:00:07	Devils_Lake	Chase_Scott	Weather	Significant thunder storm/ice storm/extremely high wind event - lines slapping together, trees, icing galloping lines, broken ties, broken insulators, broken poles.
	Substation	R	2	2022-05-09T02:33:22	2022-05-09T02:33:29	0:00:07	Devils_Lake	Chase_Scott	Weather	Storm moved through area
	Substation	R	2	2022-05-11T20:53:16	2022-05-11T20:53:23	0:00:07	Devils_Lake	Chase_Scott	Unknown	Unknown
	Substation	R	2	2022-06-15T06:33:02	2022-06-15T06:34:04	0:01:02	Devils_Lake	Chase_Scott	Equip Fail Pole	Broken pole due to storm moving through the area.
	Substation	R	2	2022-06-24T17:28:12	2022-06-24T17:28:16	0:00:04	Devils_Lake	Chase_Scott	Weather	Severe storm moved through. Lightning struck 4 poles

Equipment ID	Equipment Type	Phase(s)	Customers	Outage Start	Outage End	Duration	Customer Service Center	Region	Cause	Notes
	Substation	R	2	2022-06-24T18:12:14	2022-06-24T18:12:20	0:00:06	Devils_Lake	Chase_Scott	Lightning	Storm through the area. 4 poles took shots of lightning. 3 by McVilleville and one by Fort Totten
	Substation	R	2	2022-07-15T15:16:39	2022-07-15T15:16:46	0:00:07	Devils_Lake	Chase_Scott	Unknown	Unknown
	Substation	R	2	2022-07-22T23:23:45	2022-07-23T07:41:33	8:17:48	Devils_Lake	Chase_Scott	Lightning	Fuses blown due to lightning/storm. JCH Audited 7/28/22
	Substation	R	2	2022-08-12T09:13:13	2022-08-12T10:25:20	1:12:07	Devils_Lake	Chase_Scott	Equip Fail Pole	Pole was burnt
	Substation	R	2	2022-08-30T18:54:38	2022-08-30T18:54:44	0:00:06	Devils_Lake	Chase_Scott	Unknown	Unknown
	Substation	R	2	2022-09-04T07:48:30	2022-09-04T07:48:45	0:00:15	Devils_Lake	Chase_Scott	Unknown	Unknown
	Substation	R	2	2022-12-15T11:47:05	2022-12-15T11:47:12	0:00:07	Devils_Lake	Chase_Scott	Weather	Icing - blizzard conditions high winds SysOp was able to close in line and had SRep go out the next day to try and find reason for outage. SRep could not find a reason and line has held since original outage.
	Substation	RBY	489	2022-01-17T01:29:10	2022-01-17T01:34:08	0:04:58	Rugby	Hetletved_Klay	Unknown	
	Substation	RBY	489	2022-04-10T08:19:22	2022-04-10T08:19:40	0:00:18	Rugby	Hetletved_Klay	Unknown	SRep could not find a reason for blink
	Substation	RBY	489	2022-04-23T15:27:29	2022-04-23T15:27:43	0:00:14	Rugby	Hetletved_Klay	Weather	Severe Weather including High winds, Freezing rain, Snow and rain caused Broken poles, switches, Xarms, wire and insulators leading to multiple power outages throughout the area.
	Substation	RBY	489	2022-04-24T07:30:23	2022-04-24T07:54:03	0:23:40	Rugby	Hetletved_Klay	Weather	Severe Weather including High winds, Freezing rain, Snow and rain caused Broken poles, switches, Xarms, wire and insulators leading to multiple power outages throughout the area.
	Substation	RBY	489	2022-04-24T08:21:11	2022-04-24T08:21:29	0:00:18	Rugby	Hetletved_Klay	Weather	Severe Weather including High winds, Freezing rain, Snow and rain caused Broken poles, switches, Xarms, wire and insulators leading to multiple power outages throughout the area.
	Substation	RBY	489	2022-04-24T08:22:13	2022-04-24T08:33:54	0:11:41	Rugby	Hetletved_Klay	Weather	Severe Weather including High winds, Freezing rain, Snow and rain caused Broken poles, switches, Xarms, wire and insulators leading to multiple power outages throughout the area.
	Substation	RBY	489	2022-04-24T11:09:22	2022-04-24T11:16:32	0:07:10	Rugby	Hetletved_Klay	Weather	Severe Weather including High winds, Freezing rain, Snow and rain caused Broken poles, switches, Xarms, wire and insulators leading to multiple power outages throughout the area.
	Substation	RBY	489	2022-04-24T20:11:57	2022-04-24T20:29:11	0:17:14	Rugby	Hetletved_Klay	Weather	Severe Weather including High winds, Freezing rain, Snow and rain caused Broken poles, switches, Xarms, wire and insulators leading to multiple power outages throughout the area.
	Substation	RBY	489	2022-05-04T14:01:22	2022-05-04T14:02:58	0:01:36	Rugby	Hetletved_Klay	Equip Fail Insulator	broken insulator caused a floater.
	Substation	RBY	489	2022-12-12T20:38:15	2022-12-12T20:43:11	0:04:56	Rugby	Hetletved_Klay	Equip Fail Insulator	Insulator tracked across burning pole off
	Substation	RBY	489	2022-12-17T16:16:16	2022-12-17T16:16:31	0:00:15	Rugby	Hetletved_Klay	Weather	Icing conditions high winds/blizzard
	Substation	RBY	489	2022-12-22T07:08:28	2022-12-22T07:14:29	0:06:01	Rugby	Hetletved_Klay	Weather	Blizzard - high winds, ice and snow, broken phase, guy wires and other issues
	Substation	RBY	489	2022-12-22T09:17:10	2022-12-22T09:18:02	0:00:52	Rugby	Hetletved_Klay	Weather	Blizzard - high winds, ice and snow, broken phase, guy wires and other issues
	Substation	RBY	489	2022-12-25T07:26:19	2022-12-25T07:26:37	0:00:18	Rugby	Hetletved_Klay	Weather	Blizzard - high winds ice and snow - broken phase, guy wires...
	Substation	RBY	489	2022-12-25T15:29:09	2022-12-25T15:29:29	0:00:20	Rugby	Hetletved_Klay	Weather	Blizzard - high winds ice and snow - broken phase, guy wires...
	Substation	RBY	41	2022-02-23T03:15:01	2022-02-23T04:40:10	1:25:09	Devils_Lake	Eriksson_Lehmann_Gardner	Equip Fail Conductor	Broken conductor on 41.6kv line
	Substation	RBY	41	2022-05-15T03:01:24	2022-05-15T03:02:27	0:01:03	Devils_Lake	Eriksson_Lehmann_Gardner	Unknown	Unknown
	Substation	RBY	41	2022-07-14T11:27:41	2022-07-14T11:27:51	0:00:10	Devils_Lake	Eriksson_Lehmann_Gardner	Unknown	Unknown
	Substation	RBY	41	2022-07-18T03:31:10	2022-07-18T03:31:17	0:00:07	Devils_Lake	Eriksson_Lehmann_Gardner	Weather	Weather system moved through with wind and lightning
	Substation	RBY	41	2022-07-18T14:04:45	2022-07-18T14:27:49	0:23:04	Devils_Lake	Eriksson_Lehmann_Gardner	Equip Fail Insulator	Insulator tracked across burning pole top off.
	Substation	RBY	41	2022-10-17T20:07:29	2022-10-17T21:29:10	1:21:41	Devils_Lake	Eriksson_Lehmann_Gardner	Equip Fail Transformer	Xfmr issue
	Feeder	B	59	2022-07-05T16:31:27	2022-07-05T16:31:33	0:00:06	Milbank	Bunkers_Chris		
	Feeder	B	34	2022-06-14T05:37:16	2022-06-14T05:37:21	0:00:05	Rugby	Schell_Peary		
	Feeder	B	34	2022-07-19T01:36:23	2022-07-19T01:36:29	0:00:06	Rugby	Schell_Peary		
	Feeder	RY	65	2022-07-22T23:26:01	2022-07-22T23:26:13	0:00:12	Rugby	Schell_Peary	Weather	Storm moving through - high winds and lightning
	Feeder	BRY	160	2022-08-10T08:24:11	2022-11-08T13:52:19	2165:28:08	Rugby	Schell_Peary	Itron meter failure	RDJ 11/29/22
	Feeder	B	34	2022-11-09T14:14:19	2022-11-09T14:14:45	0:00:26	Rugby	Schell_Peary		
	Feeder	B	34	2022-11-09T14:15:34	2022-11-18T14:05:31	215:49:57	Rugby	Schell_Peary	Itron meter failure	RDJ 1/1/23
	Substation	RBY	53	2022-04-23T03:13:36	2022-04-23T03:13:42	0:00:06	Wahpeton	Hoye_Jeff	Weather	High Winds and storms in the area.
	Substation	RBY	53	2022-05-07T22:55:36	2022-05-08T04:12:14	5:16:38	Wahpeton	Hoye_Jeff	Animal	Dead Squirrel over the insulator and with rain it made contact. No customer calls and no one went there to repair anything. We dont think there was an outage.
	Substation	RBY	53	2022-08-01T13:08:00	2022-08-01T13:25:20	0:17:20	Wahpeton	Hoye_Jeff	Unknown	We had to change out a pole in Wheatland
	Substation	RBY	53	2022-09-28T08:31:37	2022-09-28T12:49:43	4:18:06	Wahpeton	Hoye_Jeff	Planned	Ice buildup caused the line to gallop and make contact phase to phase multiple times.
	Substation	RBY	53	2022-11-09T18:31:00	2022-11-09T18:31:11	0:00:11	Wahpeton	Hoye_Jeff	Weather	Ice buildup caused the line to gallop and make contact phase to phase multiple times.
	Substation	RBY	53	2022-11-09T18:32:46	2022-11-09T18:33:39	0:00:53	Wahpeton	Hoye_Jeff	Weather	Ice buildup caused the line to gallop and make contact phase to phase multiple times.
	Substation	RBY	53	2022-11-09T19:05:35	2022-11-09T19:05:41	0:00:06	Wahpeton	Hoye_Jeff	Weather	Ice buildup caused the line to gallop and make contact phase to phase multiple times.

Equipment ID	Equipment Type	Phase(s)	Customers	Outage Start	Outage End	Duration	Customer Service Center	Region	Cause	Notes
	Substation	RBY	53	2022-11-09T19:07:32	2022-11-09T19:07:38	0:00:06	Wahpeton	Hoye_Jeff	Weather	Ice buildup caused the line to gallop and make contact phase to phase multiple times.
	Substation	RBY	53	2022-11-09T20:52:14	2022-11-09T20:52:21	0:00:07	Wahpeton	Hoye_Jeff	Weather	Ice buildup caused the line to gallop and make contact phase to phase multiple times.
	Substation	RBY	53	2022-12-10T10:34:05	2022-12-10T11:09:20	0:35:15	Wahpeton	Hoye_Jeff	Equip Fail Conductor	Broken tie wire caused both of these floaters
	Substation	RBY	53	2022-12-12T21:24:22	2022-12-12T21:58:23	0:34:01	Wahpeton	Hoye_Jeff	Equip Fail Conductor	Broken tie wire caused both of these floaters
	Substation	BRY	200	2022-06-13T21:28:33	2022-06-13T21:28:42	0:00:09	Rugby	Larson_Paul	Weather	Stormy weather with high winds traveled through the CSC causing blinks
	Substation	BRY	199	2022-07-05T06:44:38	2022-07-05T06:45:53	0:01:15	Rugby	Larson_Paul	Unknown	SRep could not find a reason for short blink
	Substation	BRY	200	2022-07-14T11:20:59	2022-07-14T11:21:09	0:00:10	Rugby	Larson_Paul	Unknown	SRep could not find an exact reason for the blink.
	Substation	BRY	200	2022-07-22T21:30:15	2022-07-23T03:46:22	6:16:07	Rugby	Larson_Paul	Equip Fail Insulator	Insulator failed during storm. JCH Audited 7/28/22
	Substation	R	74	2022-08-15T08:23:09	2022-08-15T08:23:59	0:00:50	Rugby	Larson_Paul	Weather	Storm cell moved through the area.
	Substation	BRY	199	2022-08-23T18:16:52	2022-08-23T18:17:21	0:00:29	Rugby	Larson_Paul	Unknown	Unknown.
	Substation	BRY	200	2022-10-18T02:30:27	2022-10-18T02:30:37	0:00:10	Rugby	Larson_Paul	Unknown	Unknown
	Substation	BRY	200	2022-12-14T12:08:36	2022-12-14T12:08:47	0:00:11	Rugby	Larson_Paul	Weather	Icing conditions high winds/blizzard
	Substation	BRY	200	2022-12-15T06:32:38	2022-12-15T06:32:48	0:00:10	Rugby	Larson_Paul	Weather	Icing conditions high winds/blizzard
										SysOp was able to close in line and had SRep go out the next day to try and find reason for outage. SRep could not find a reason and line has held since original outage.
	Substation	R	3	2022-01-17T01:29:16	2022-01-17T01:34:05	0:04:49	Rugby	Hetletved_Klay	Unknown	SRep could not find a reason for blink
	Substation	R	3	2022-04-10T08:19:18	2022-04-10T08:19:25	0:00:07	Rugby	Hetletved_Klay	Unknown	Severe Weather including High winds, Freezing rain, Snow and rain caused Broken poles, switches, Xarms, wire and insulators leading to multiple power outages throughout the area.
	Substation	R	3	2022-04-23T15:27:33	2022-04-23T15:27:40	0:00:07	Rugby	Hetletved_Klay	Weather	
										Severe Weather including High winds, Freezing rain, Snow and rain caused Broken poles, switches, Xarms, wire and insulators leading to multiple power outages throughout the area. JCH audited 4/30/22
	Substation	R	3	2022-04-24T07:30:23	2022-04-24T11:06:19	3:35:56	Rugby	Hetletved_Klay	Weather	
										Severe Weather including High winds, Freezing rain, Snow and rain caused Broken poles, switches, Xarms, wire and insulators leading to multiple power outages throughout the area. JCH audited 4/30/22
	Substation	R	3	2022-04-24T11:09:27	2022-04-24T20:10:18	9:00:51	Rugby	Hetletved_Klay	Weather	Severe Weather including High winds, Freezing rain, Snow and rain caused Broken poles, switches, Xarms, wire and insulators leading to multiple power outages throughout the area.
	Substation	R	3	2022-04-24T20:12:09	2022-04-24T21:59:14	1:47:05	Rugby	Hetletved_Klay	Weather	multiple power outages throughout the area.
	Substation	R	3	2022-05-04T14:01:39	2022-05-04T14:03:05	0:01:26	Rugby	Hetletved_Klay	Equip Fail Insulator	broken insulator caused floater
	Substation	R	3	2022-12-12T20:38:31	2022-12-12T20:43:18	0:04:47	Rugby	Hetletved_Klay	Equip Fail Insulator	Insulator tracked across burning pole off
	Substation	R	3	2022-12-17T16:16:26	2022-12-17T16:16:39	0:00:13	Rugby	Hetletved_Klay	Weather	Icing conditions high winds/blizzard
	Substation	R	3	2022-12-22T07:08:40	2022-12-22T07:14:36	0:05:56	Rugby	Hetletved_Klay	Weather	Blizzard - high winds, ice and snow, broken phase, guy wires and other issues
	Substation	R	3	2022-12-22T09:17:25	2022-12-22T09:18:10	0:00:45	Rugby	Hetletved_Klay	Weather	Blizzard - high winds, ice and snow, broken phase, guy wires and other issues
	Substation	R	3	2022-12-25T07:26:25	2022-12-25T07:26:44	0:00:19	Rugby	Hetletved_Klay	Weather	Blizzard - high winds, ice and snow, broken phase, guy wires and other issues
	Substation	R	3	2022-12-25T15:29:09	2022-12-25T15:29:36	0:00:27	Rugby	Hetletved_Klay	Weather	Blizzard - high winds ice and snow - broken phase, guy wires...
	Substation	R	3	2022-12-26T13:55:00	2022-12-26T15:11:02	1:16:02	Rugby	Hetletved_Klay	Weather	Blizzard - high winds ice and snow - broken phase, guy wires...
										Unknown distribution fault caused Peaking Plant breaker 815 to operate causing Jamestown SE Jct motor-operated switch 781 to open which caused transmission issues between Jamestown and Edgeley load pockets. Cause unknown upon investigation.
	Substation	BRY	19	2022-01-13T11:45:54	2022-01-13T12:47:06	1:01:12	Jamestown	Bruner_Brent	Unknown	Yellow phase broke 2 spans east of the Windsor Substation. JCH audited 4/27/22
	Substation	Y	7	2022-04-09T09:05:46	2022-04-09T12:18:41	3:12:55	Jamestown	Bruner_Brent	Equip Fail Conductor	
	Substation	BRY	19	2022-04-22T22:52:52	2022-04-22T22:53:15	0:00:23	Jamestown	Bruner_Brent	Weather	Storms in the area.
	Substation	BRY	36	2022-04-23T00:10:18	2022-04-23T00:11:30	0:01:12	Jamestown	Bruner_Brent	Weather	Storms in the area.
	Substation	BRY	19	2022-05-13T13:34:36	2022-05-13T13:39:44	0:05:08	Jamestown	Bruner_Brent	Equip Fail Pole	3 poles fell over in the slough 1 mile south of I-94 and Hwy 30 due to strong winds and wet conditions.
	Substation	BRY	19	2022-05-13T14:38:17	2022-05-13T14:41:45	0:03:28	Jamestown	Bruner_Brent	Equip Fail Pole	3 poles fell over in the slough 1 mile south of I-94 and Hwy 30 due to strong winds and wet conditions.
	Substation	BRY	19	2022-05-13T14:48:43	2022-05-13T14:56:50	0:08:07	Jamestown	Bruner_Brent	Equip Fail Pole	3 poles fell over in the slough 1 mile south of I-94 and Hwy 30 due to strong winds and wet conditions.
	Substation	BRY	18	2022-05-13T15:05:56	2022-05-13T15:19:34	0:13:38	Jamestown	Bruner_Brent	Equip Fail Pole	3 poles fell over in the slough 1 mile south of I-94 and Hwy 30 due to strong winds and wet conditions.
	Substation	BRY	19	2022-06-14T05:32:00	2022-06-14T05:32:10	0:00:10	Jamestown	Bruner_Brent	Weather	Storm in the area.
	Substation	BRY	19	2022-06-14T05:43:52	2022-06-14T05:44:02	0:00:10	Jamestown	Bruner_Brent	Weather	Storm in the area.

Equipment ID	Equipment Type	Phase(s)	Customers	Outage Start	Outage End	Duration	Customer Service Center	Region	Cause	Notes
	Substation	BRY	19	2022-06-20T16:38:07	2022-06-20T16:44:15	0:06:08	Jamestown	Bruner_Brent	Unknown	Investigated and cause not known. SEL 35.12 from Jamestown and 12.6 from Edgeley.
	Substation	BRY	19	2022-06-29T23:29:20	2022-06-29T23:32:11	0:02:51	Jamestown	Bruner_Brent	Vegetation	Storm in the area caused trees, approximately 10 miles north of Edgeley, to contact transmission line which opened the breaker.
	Substation	BYR	19	2022-07-07T06:21:43	2022-07-07T06:22:47	0:01:04	Jamestown	Bruner_Brent	Weather	Storms in the area.
	Substation	BRY	19	2022-07-31T02:43:32	2022-07-31T02:44:36	0:01:04	Jamestown	Bruner_Brent	Weather	Storm passing through the area.
	Substation	BRY	19	2022-08-28T06:37:04	2022-08-28T06:37:31	0:00:27	Jamestown	Bruner_Brent	Weather	Lightning storm in the area. Line patrolled per SEL data, but nothing found.
	Substation	BRY	19	2022-08-28T07:15:23	2022-08-28T07:15:52	0:00:29	Jamestown	Bruner_Brent	Weather	Lightning storm in the area. Line patrolled per SEL data, but nothing found.
	Substation	BRY	19	2022-11-06T11:46:52	2022-11-06T11:50:57	0:04:05	Jamestown	Bruner_Brent	Equip Fail Insulator	Broken center phase insulator between Jamestown Radio Station sub and Millarton-Montpelier Sub.
	Substation	BRY	19	2022-11-09T20:56:22	2022-11-09T20:56:46	0:00:24	Jamestown	Bruner_Brent	Weather	Galloping lines caused by freezing rain and windy conditions.
	Substation	BRY	19	2022-11-09T21:48:16	2022-11-09T21:48:39	0:00:23	Jamestown	Bruner_Brent	Equip Fail Pole	Top of pole burned between Cleveland and Windsor.
	Substation	BRY	19	2022-11-10T03:47:18	2022-11-10T06:18:37	2:31:19	Jamestown	Bruner_Brent	Weather	Galloping lines caused by freezing rain and windy conditions. JCH AUdited 11/29/22
	Substation	BRY	19	2022-11-30T20:04:48	2022-11-30T21:17:07	1:12:19	Jamestown	Bruner_Brent	Equip Fail Conductor	Phase burned down between Jamestown and Eldridge.
	Substation	BRY	19	2022-12-03T00:06:51	2022-12-03T01:32:24	1:25:33	Jamestown	Bruner_Brent	Equip Fail Conductor	Phase burned down between Windsor and Cleveland.
	Substation	BRY	19	2022-12-12T14:39:07	2022-12-12T15:58:42	1:19:35	Jamestown	Bruner_Brent	Equip Fail Pole	Burned off pole top between Windsor and Cleveland.
	Substation	BRY	132	2022-01-17T01:29:08	2022-01-17T01:34:33	0:05:25	Rugby	Hetletved_Klay	Unknown	SysOp was able to close in line and had SRep go out the next day to try and find reason for outage. SRep could not find a reason and line has held since original outage.
	Substation	BRY	131	2022-04-10T08:19:19	2022-04-10T08:20:11	0:00:52	Rugby	Hetletved_Klay	Unknown	SRep could not find a reason for blink
	Substation	BRY	131	2022-04-23T15:27:29	2022-04-23T15:28:24	0:00:55	Rugby	Hetletved_Klay	Weather	Severe Weather including High winds, Freezing rain, Snow and rain caused Broken poles, switches, Xarms, wire and insulators leading to multiple power outages throughout the area.
	Substation	BRY	132	2022-04-24T07:30:23	2022-05-04T14:03:04	246:32:41	Rugby	Hetletved_Klay	Weather	Severe Weather including High winds, Freezing rain, Snow and rain caused Broken poles, switches, Xarms, wire and insulators leading to multiple power outages throughout the area. JCH audited 4/30/22
	Substation	BR	50	2022-05-04T14:01:37	2022-05-04T14:03:05	0:01:28	Rugby	Hetletved_Klay	Equip Fail Insulator	broken insulator caused a floater.
	Substation	BRY	132	2022-12-12T20:38:10	2022-12-12T23:03:37	2:25:27	Rugby	Hetletved_Klay	Equip Fail Insulator	Insulator tracked across burning pole off
	Substation	BRY	132	2022-12-17T16:16:26	2022-12-17T16:17:22	0:00:56	Rugby	Hetletved_Klay	Weather	Icing conditions high winds/blizzard
	Substation	BRY	132	2022-12-22T07:08:43	2022-12-22T09:37:17	2:28:34	Rugby	Hetletved_Klay	Weather	Blizzard - high winds, ice and snow, broken phase, guy wires and other issues
	Substation	BRY	132	2022-12-25T07:26:31	2022-12-25T07:27:26	0:00:55	Rugby	Hetletved_Klay	Weather	Blizzard -ice and snow
	Substation	BRY	132	2022-12-25T15:29:09	2022-12-25T15:30:14	0:01:05	Rugby	Hetletved_Klay	Weather	Blizzard - high winds ice and snow - broken phase, guy wires...
	Substation	RBY	435	2022-04-23T01:19:51	2022-04-23T01:19:59	0:00:08	Wahpeton	Vetter_AI	Weather	Storms with high winds in the whole area.
	Substation	RBY	435	2022-05-09T06:36:29	2022-05-09T06:36:35	0:00:06	Wahpeton	Vetter_AI	Weather	Strong thunderstorms with lots of lightning and heavy rain in the area.
	Substation	BYR	435	2022-05-09T07:33:53	2022-05-09T07:34:02	0:00:09	Wahpeton	Vetter_AI	Weather	Strong thunderstorms with lots of lightning and heavy rain in the area. Line was patrolled and nothing was found, SEL is not available on this line section.
	Substation	RBY	435	2022-05-09T09:24:16	2022-05-09T09:24:24	0:00:08	Wahpeton	Vetter_AI	Unknown	Strong storms with straight line winds caused extensive tree damage and several poles to break.
	Substation	RBY	435	2022-05-12T19:29:34	2022-05-12T19:29:42	0:00:08	Wahpeton	Vetter_AI	Weather	We have patrolled the line but without accurate SEL reading it is very hard to find issue.
	Substation	BYR	435	2022-05-25T01:10:15	2022-05-25T01:11:21	0:01:06	Wahpeton	Vetter_AI	Unknown	Storms in the area
	Substation	RBY	435	2022-05-29T01:26:31	2022-05-29T01:27:39	0:01:08	Wahpeton	Vetter_AI	Weather	Several strong storms went through the area with high winds and lightning.
	Substation	RBY	435	2022-05-30T20:10:31	2022-05-30T20:13:20	0:02:49	Wahpeton	Vetter_AI	Weather	Strong storms with wind and rain in the area
	Substation	RBY	435	2022-06-30T00:16:57	2022-06-30T00:18:03	0:01:06	Wahpeton	Vetter_AI	Weather	nothing found after patrol.
	Substation	BYR	435	2022-07-17T19:32:43	2022-07-17T19:33:46	0:01:03	Wahpeton	Vetter_AI	Unknown	Storms with lightning in the area
	Substation	RBY	435	2022-07-19T01:00:45	2022-07-19T01:01:49	0:01:04	Wahpeton	Vetter_AI	Weather	No customer calls, 41.6 breaker operated we will patrol when we get time.
	Substation	RBY	435	2022-09-01T05:14:44	2022-09-01T05:15:10	0:00:26	Wahpeton	Vetter_AI	Unknown	Squirrel got into the sub and caused significant damage.
	Substation	RBY	435	2022-09-30T13:46:47	2022-09-30T13:47:13	0:00:26	Wahpeton	Vetter_AI	Animal	No customer calls
	Substation	RBY	435	2022-10-09T19:39:55	2022-10-09T19:40:20	0:00:25	Wahpeton	Vetter_AI	Unknown	Equipment failure in Minkota sub outside of Wyndmere took us down also.
	Substation	BYR	434	2022-11-07T05:23:09	2022-11-07T05:31:52	0:08:43	Wahpeton	Vetter_AI	Equip Fail Transformer	
	Substation	BYR	468	2022-11-10T06:33:44	2022-11-10T07:19:38	0:45:54	Wahpeton	Vetter_AI		Broken insulator in Milnor during storm so we had a floater causing outages.
	Substation	RBY	435	2022-12-15T13:05:06	2022-12-15T13:05:17	0:00:11	Wahpeton	Vetter_AI	Equip Fail Insulator	

Equipment ID	Equipment Type	Phase(s)	Customers	Outage Start	Outage End	Duration	Customer Service Center	Region	Cause	Notes
	Substation	RBY	435	2022-12-15T13:24:06	2022-12-15T13:27:30	0:03:24	Wahpeton	Vetter_AI	Equip Fail Insulator	Broken insulator in Milnor during storm so we had a floater causing outages.
	Substation	RBY	435	2022-12-15T13:43:09	2022-12-15T13:44:37	0:01:28	Wahpeton	Vetter_AI	Equip Fail Insulator	Broken insulator in Milnor during storm so we had a floater causing outages.
	Substation	RBY	435	2022-12-15T14:15:52	2022-12-15T14:17:21	0:01:29	Wahpeton	Vetter_AI	Equip Fail Insulator	Broken insulator in Milnor during storm so we had a floater causing outages.
	Substation	RBY	435	2022-12-15T14:43:16	2022-12-15T14:43:24	0:00:08	Wahpeton	Vetter_AI	Equip Fail Insulator	Broken insulator in Milnor during storm so we had a floater causing outages.
	Substation	RBY	435	2022-12-15T15:00:35	2022-12-15T15:02:20	0:01:45	Wahpeton	Vetter_AI	Equip Fail Insulator	Broken insulator in Milnor during storm so we had a floater causing outages.
	Substation	RBY	435	2022-12-15T15:25:30	2022-12-15T15:42:50	0:17:20	Wahpeton	Vetter_AI	Equip Fail Insulator	Broken insulator in Milnor during storm so we had a floater causing outages.
	Substation	RBY	435	2022-12-15T15:53:50	2022-12-15T15:53:58	0:00:08	Wahpeton	Vetter_AI	Equip Fail Insulator	Broken insulator in Milnor during storm so we had a floater causing outages.
	Substation	RBY	435	2022-12-15T15:55:15	2022-12-15T15:55:23	0:00:08	Wahpeton	Vetter_AI	Equip Fail Insulator	Broken insulator in Milnor during storm so we had a floater causing outages.
	Substation	RBY	435	2022-12-15T16:44:12	2022-12-15T16:47:14	0:03:02	Wahpeton	Vetter_AI	Equip Fail Insulator	Broken insulator in Milnor during storm so we had a floater causing outages.
	Substation	RBY	835	2022-12-15T16:49:44	2022-12-15T17:14:44	0:25:00	Wahpeton	Vetter_AI	Equip Fail Insulator	Broken insulator in Milnor during storm so we had a floater causing outages.
	Substation	RBY	51	2022-07-26T02:03:22	2022-07-26T02:03:33	0:00:11	Rugby	Peterson_Paul	Weather	Storm cell moved through the area
	Substation	RBY	51	2022-08-18T02:49:55	2022-08-18T02:50:02	0:00:07	Rugby	Peterson_Paul	Weather	Severe storm moved through

...PROTECTED DATA ENDS]

## 2.5 Normalized Results:

2022 State/Customer Service Center	SAIFI	SAIDI (minutes)	CAIDI (minutes)	MAIFI	Total Sustained Customer Minutes
ND	1.884839	130.59	69.28	7.459795	8620183
Devils_Lake	2.188102	143.46	65.56	8.083267	1622944
Jamestown	2.155738	123.02	57.07	9.019226	2290765
Rugby	1.812794	185.38	102.26	6.952487	2996518
Wahpeton	1.142578	54.18	47.42	4.973072	887272
2022 OTP System KPI Goals		85		5.5	NA

Feeder	SAIFI	SAIDI (minutes)	CAIDI (minutes)	MAIFI	Total Sustained Customer Minutes
Abercrombie_MainFeeder	0	0	0	8	0
Absaraka_MainFeeder	1.173913	69.24	58.98	6.5	3185
Alice_MainFeeder	0	0	0	6.686275	0
Amenia_MainFeeder	5	163.98	32.8	5.014286	11479
Anamoose_MainFeeder	1	49.27	49.27	6	9016
Anamoose_Rural_MainFeeder	1	49.27	49.27	4	49
Aneta_MainFeeder	0	0	0	0.158824	0
Antler_Kuroki_MainFeeder	0	0	0	7	0
Ardoch_Beet_Dump_MainFeeder	3	296.15	98.72	11	1185
Ardoch_MainFeeder	3	296.12	98.71	8	4738
Argyle_NorthFeeder	0	0	0	12.005555	0
Ayr_MainFeeder_Ayr_and_Rural	1.264151	82.05	64.9	5.132075	4348
Balfour_BalfourFeeder	2.392857	212.19	88.68	7.392857	5941
Balfour_Butte_and_KiefFeeder	2.035461	862.22	423.6	10.404255	121573
Barney_MainFeeder	0	0	0	7.065574	0
Bartlett_MainFeeder	5	363.42	72.68	6	1454
Barton_MainFeeder	0.045347	17.05	376.03	0.453467	376
Belcourt_BIAFeeder	5	108.95	21.79	10.019108	17105
Belcourt_MainFeeder	4	107.76	26.94	16.021898	14764
Belcourt_West_OjibwaFeeder	4	80.07	20.02	10.666667	240
Belcourt_West_Skydancer_WestFeeder	4	80.35	20.09	14.5	321
Benedict_MainFeeder	1.365079	170.65	125.01	2.079365	10751
Bergen_MainFeeder	0.684211	97.82	142.96	4.789474	1859
Berlin_MainFeeder	3	244.63	81.54	13.034483	7094
Berwick_MainFeeder	1	7.92	7.92	4.083333	95
Binford_Jesse_MainFeeder	2.698795	1024.57	379.64	2.253012	170079
Bordulac_MainBordulac_and_Melville	5	206.4	41.28	13.102041	10114
Bottineau_Downtown_EastFeeder	0	0	0	6	0
Bottineau_Downtown_WestFeeder	0	0	0	6	0
Bottineau_South_SoutheastFeeder	1	6.25	6.25	3	2525
Bottineau_South_SouthwestFeeder	0	0	0	3	0
Bowdon_MainFeeder	2	213.76	106.88	16.007195	29713

Feeder	SAIFI	SAIDI (minutes)	CAIDI (minutes)	MAIFI	Total Sustained Customer Minutes
Brinsmade_MainFeeder	2.125	132.2	62.21	4.5	3173
Brinsmade_Rural_MainFeeder	3	190.53	63.51	5.176471	3239
Buffalo_MainFeeder	3	248.55	82.85	5.011236	44241
Calvin_Jct_MainFeeder	3	446.2	148.73	18.015385	58006
Carbury_MainFeeder	2	124.97	62.48	10	125
Carrington_North_EastFeeder	0	0	0	5	0
Carrington_North_WestFeeder	0	0	0	0.001681	0
Carrington_South_EastFeeder	3	21.49	7.16	15.019802	6512
Carrington_South_WestFeeder	4	28.16	7.04	13.032895	4280
Casselton_115_RuralFeeder	1	864.12	864.12	4	864
Casselton_NEFeeder	6.358621	238.74	37.55	9.02069	69233
Casselton_NWFeeder	6	229.43	38.24	11.006579	69748
Casselton_RuralFeeder	6.045454	235.39	38.94	5.5	5179
Cathay_MainFeeder	2	300.78	150.39	9.019231	15640
Cathay_Rural_MainFeeder	2	300.71	150.36	10.333333	902
Cayuga_MainFeeder	0.842105	34.47	40.93	2.315789	1310
Christine_MainFeeder	0	0	0	6.666667	0
Churchs_Ferry_MainFeeder	1.714286	1211.9	706.94	3.714286	16967
Cleveland_MainFeeder	7	532.47	76.07	15.031915	50052
Cogswell_MainFeeder	9.424658	1108.08	117.57	13.041096	80890
Coleharbor_MainFeeder	2.1125	77.13	36.51	9.8	6171
Colgate_ColgateFeeder	2	304.75	152.38	7	9447
Cooperstown_NorthFeeder	0	0	0	8.00165	0
Cooperstown_SouthFeeder	0	0	0	8.011131	0
Courtenay_Wimbledon_MainFeeder	5.75	526.89	91.63	9.767858	29506
Courtenay_Wimbledon_WimbledonFeeder	9.024631	906.07	100.4	11.738916	183933
Crary_MainFeeder	4	160.58	40.14	6.092308	10438
Davenport_MainFeeder	5	346.73	69.35	5.042253	49236
Dazey_Farms_MainFeeder	0.47619	43.82	92.02	5.047619	920
Dazey_MainFeeder	0	0	0	1.389474	0
Deering_MainFeeder	1.490196	74.01	49.66	4.421568	7549
Denhoff_MainFeeder	4.210526	180.44	42.86	14.736842	3428
Devils_Lake_Downtown_West_and_NorthFeeder	3	236.5	78.83	1	114230
Devils_Lake_Northeast_NorthFeeder	0	0	0	10.03125	0
Devils_Lake_Northeast_SouthFeeder	1	45.88	45.88	3	46
Devils_Lake_Southeast_EastFeeder	3	148.44	49.48	1.005714	51953
Douglas_MainFeeder	4	399.37	99.84	10.029851	26758
Doyon_MainFeeder	0	0	0	6	0
Drake_MainFeeder	1	49.25	49.25	5	12460
Drayton_NorthFeeder	5	176.7	35.34	13.01475	59901
Drayton_SouthFeeder	3	62.72	20.91	9.011905	10536
Dresden_MainFeeder	8	553.38	69.17	15.044944	49250
Dunning_MainFeeder	2	136.22	68.11	3	272

Feeder	SAIFI	SAIDI (minutes)	CAIDI (minutes)	MAIFI	Total Sustained Customer Minutes
Dunseith_MainFeeder	2	179.92	89.96	12.00463	77724
Dwight_MainFeeder	0.017857	0.88	49.22	8.017858	49
Eckelson_MainFeeder	1	9.9	9.9	3.026316	376
Edgeley_NorthwestFeeder	0.004	0.43	107.28	0.036	107
Edgeley_SoutheastFeeder	0.027972	1.17	41.85	0.181818	167
Edinburg_MainFeeder	3.006173	212.76	70.78	24.012346	34468
Edmore_MainFeeder	2	43.13	21.56	7.017964	7203
Eldridge_MainFeeder	8	484.55	60.57	15.065217	22289
Emrick_MainFeeder	1.6	241.35	150.84	7.2	1207
Emrick_Rural_MainFeeder	2.714286	468.68	172.67	7.285714	3281
Enderlin_115kv_EastFeeder	0	0	0	11	0
Enderlin_115kv_SheldonLine	0.333333	65.31	195.93	14.666667	196
Enderlin_115kv_WestFeeder	0	0	0	19.002853	0
Erie_MainFeeder	0.826087	78.77	95.35	4.978261	3623
Esmond_MainFeeder	2	75.97	37.98	5	11091
Fairdale_MainFeeder	2.934783	361.59	123.21	7.847826	16633
Fairmount_City_and_SonoraFeeder	0.010791	0.76	70.58	1.010791	212
Fairmount_WhiteRock_and_RuralFeeder	0	0	0	2	0
Falkirk_MainFeeder	1	11.53	11.53	3	358
Fessenden_Hamberg_EastFeeder	2	262.02	131.01	2	63146
Fessenden_Hamberg_WestFeeder	2	270.03	135.02	3	57247
Fessenden_Rural_MainFeeder	4	584.78	146.2	9.5	1170
Fingal_Rural_MainFeeder	8	709.61	88.7	14.015504	183080
Finley_EastFeeder	0	0	0	5	0
Finley_WestFeeder	1	101.29	101.29	8.008474	11952
Fordville_FordvilleFeeder	4	244.55	61.14	9	39373
Fordville_Lankin_and_Pisek	3.017647	146.75	48.63	10.829412	24948
Forest_River_MainFeeder	3	296	98.67	10	24864
Forman_MainFeeder	2	52.55	26.27	4	18445
Fort_Totten_NorthFeeder	1	7.05	7.05	6.333333	21
Fort_Totten_Rural_MainFeeder	1	115.58	115.58	4.833333	693
Fort_Totten_WestFeeder	1.051282	12.32	11.72	5.74359	481
Gackle_MainFeeder	3.759582	146.24	38.9	16.317074	41972
Gackle_Rural_EastFeeder	5	168.69	33.74	18.5	1012
Gackle_Rural_MainFeeder	8	662.6	82.83	17.2	6626
Galchutt_MainFeeder	1	115.35	115.35	8	3345
Galesburg_Clifford_MainFeeder	2.41954	467.8	193.34	6.741379	81398
Garrison_CentralFeeder	3	162.23	54.08	17.021845	66837
Garrison_EastFeeder	3	162.22	54.07	16.00554	58560
Garrison_Stone_Inn_MainFeeder	3	161.83	53.94	18	162
Garrison_WestFeeder	3	162.21	54.07	17.008404	19303
Garske_MainFeeder	0.1	2.31	23.11	0.4	46
Geneseo_MainFeeder	4.515151	473.28	104.82	2.666667	15618

Feeder	SAIFI	SAIDI (minutes)	CAIDI (minutes)	MAIFI	Total Sustained Customer Minutes
Gilby_Orr_Jct_MainFeeder	2.434783	169.59	69.65	6.726708	27304
Glenburn_MainFeeder	2	133.17	66.59	4	7591
Goodrich_MainFeeder	5	445.25	89.05	13	55656
Grand_Rapids_Jct_MainFeeder	3	250.42	83.47	37.01195	62854
Granville_MainFeeder	0.659686	5.26	7.97	2.649215	1005
GreatBend_Mantador_GreatBendFeeder	0.099516	12.05	121.11	2.255689	363
GreatBend_Mantador_GreatBendFeeder	0.099516	12.05	121.11	2.255689	363
GreatBend_Mantador_MainFeeder	0.409522	48.66	118.81	1.049399	9505
Gwinner_MainFeeder	0	0	0	4.5	0
Hamar_MainFeeder	1.333333	158.98	119.24	15.111111	1431
Hamborg_MainFeeder	3	384.93	128.31	1	27715
Hampden_Jct_MainFeeder	3	195.75	65.25	11.365385	10179
Hankinson_NorthFeeder	0.004695	0.53	113.43	0	113
Hankinson_SouthFeeder	1	11.52	11.52	8	4941
HankinsonCasino_MainFeeder	0	0	0	4	0
Hannaforde_MainFeeder	3	639.83	213.28	2	74861
Harvey_North_WestFeeder	0	0	0	3	0
Havana_MainFeeder	2	52.78	26.39	11.608696	3642
Heaton_MainFeeder	1	111.49	111.49	17.125	892
Hoople_MainFeeder	3.005405	212.68	70.77	17.005405	39346
HovingJct_MainFeeder	6	307.4	51.23	10	307
Hurdsfield_MainFeeder	6	358.55	59.76	14.022472	31911
Inkster_MainFeeder	3.043478	227.29	74.68	9.847826	10455
Jamestown_Downtown_NortheastFeeder	2	232.55	116.28	7	53952
Jamestown_Downtown_SoutheastFeeder	1	19.16	19.16	0.006993	10962
Jamestown_Downtown_SouthwestFeeder	0	0	0	1	0
Jamestown_NE_Switching_Station_WestFeeder	0	0	0	3	0
Jamestown_Peaking_Plant_NorthFeeder	0	0	0	2.000705	0
Jamestown_Peaking_Plant_SouthFeeder	0	0	0	1	0
Jamestown_Radio_Station_MainFeeder_KSJB_and_Rural	1.368421	117.23	85.67	7.596491	6682
Jamestown_Southwest_EastFeeder	2	200.08	100.04	15.004695	127853
Jamestown_Southwest_NorthFeeder	0	0	0	19.006453	0
Jamestown_Southwest_SouthFeeder	2.002358	202.75	101.26	12.016509	85966
Jud_MainFeeder	4.038462	196.76	48.72	17.217949	15347
Karlsruhe_MainFeeder	2	161.15	80.58	7	19660
Kensal_MainFeeder	3	20.73	6.91	12.012048	3441
Kindred_MainFeeder	5.002203	245.73	49.12	8.843613	111562
Kloten_MainFeeder	1	197.52	197.52	6	6123
Knox_KnoxFeeder	0	0	0	1	0
Knox_WolfordFeeder	1	917.92	917.92	1.465116	39470
Kramer_Upham_KramerFeeder	1	43.02	43.02	0	1506
Kramer_Upham_UphamFeeder	0.472222	31.05	65.75	0.555556	4471
Lakewood_MainFeeder	2	361.9	180.95	0	74551

Feeder	SAIFI	SAIDI (minutes)	CAIDI (minutes)	MAIFI	Total Sustained Customer Minutes
LaMoure_NorthFeeder	2	165.75	82.88	11.00232	71438
LaMoure_SouthFeeder	2	165.73	82.87	11.010989	15082
Landa_MainFeeder	2.34375	163.63	69.82	4.84375	5236
Langdon_Downtown_EastFeeder	1	66.93	66.93	4.003345	20013
Langdon_Downtown_WestFeeder	1	66.95	66.95	4.007576	17675
Langdon_East_Rural_MainFeeder	1	66.95	66.95	5.012987	5155
Langdon_North_EastFeeder	1.61413	245.91	152.35	7.63587	45248
Langdon_North_HighSchoolFeeder	2	98.95	49.48	4.2	495
Langdon_North_WestFeeder	2.328452	145.66	62.56	4.677824	69627
Lansford_MainFeeder	3	325.41	108.47	4.21659	70614
Lawton_Jct_MainFeeder	3.392157	204.69	60.34	7.784314	10439
Leeds_MainFeeder	0	0	0	3.006369	0
Lidgerwood_EastFeeder	2	87.4	43.7	3	22549
Lidgerwood_WestFeeder	4	126.35	31.59	4	25144
Lisbon_EastFeeder	2	85.9	42.95	13	31182
Lisbon_NorthFeeder	0.003745	0.16	42.13	0.024345	84
Lisbon_SouthFeeder	2	90.08	45.04	9.040816	4414
Lisbon_WestFeeder	0	0	0	5	0
Litchville_MainFeeder	0.113475	7.66	67.51	0.836879	1080
Makoti_MainFeeder	3.589552	386.29	107.62	8.507463	51763
Manfred_MainFeeder	1.466667	191.49	130.56	0.733333	2872
Mapes_MainFeeder	0	0	0	4.666667	0
Mapes_Rural_MainFeeder	0	0	0	6	0
Mapleton_MainFeeder	0.008351	0.53	63.79	0.070981	255
Mapleton_South_and_West_RuralFeeder	1	28.44	28.44	4.045454	626
Martin_MainFeeder	1.027778	50.64	49.27	4	3646
Max_MainFeeder	7	758.85	108.41	15.004926	154047
Maxbass_MainFeeder	1.448276	98.66	68.12	2.172414	8583
McCanna_MainFeeder	4.038462	661.23	163.73	19.5	17192
McClusky_MainFeeder	5	187	37.4	14.003205	58344
McVile_EastArea	0	0	0	8.015504	0
McVile_WestArea	0	0	0	8	0
Medina_MainFeeder	8.390681	349.17	41.61	29.086021	97419
Mercer_MainFeeder	2.204082	139.96	63.5	6.979592	13716
Michigan_MainFeeder	3.006024	148.63	49.45	19.087349	49346
Millerton_Montpelier_MainFeeder	0	0	0	14.467391	0
Milnor_MainFeeder	4	99.05	24.76	9	54874
Minnewaukan_MainFeeder	3	150.92	50.31	8.011539	39238
Minto_MainFeeder	3	334.47	111.49	11	150844
Mooreton_MainFeeder	1	74.2	74.2	6.010989	13504
Mooreton_RuralFeeder	0.37037	27.54	74.35	3	744
Munich_MainFeeder	2.782609	237.49	85.35	13.847826	10925
Neche_MainFeeder	2	81.83	40.92	5	29787

Feeder	SAIFI	SAIDI (minutes)	CAIDI (minutes)	MAIFI	Total Sustained Customer Minutes
Nekoma_MainFeeder	3.470588	254.73	73.4	8.044118	17321
New_Effington_MainFeeder	1.039024	123.74	119.1	1.068293	25367
New_Folden_MainFeeder	3	193.87	64.62	3	1939
New_Rockford_North_EastFeeder	2	80.43	40.22	4.005465	14719
New_Rockford_North_WestFeeder	1	65.71	65.71	5.007772	25363
New_Rockford_South_NorthFeeder	1.002237	65.85	65.7	4.008948	29434
New_Rockford_South_SouthFeeder	1.208333	50.86	42.09	2.972222	3662
Newark_Brampton_MainFeeder	4	2312.21	578.05	10.1875	36995
Newburg_MainFeeder	0.017699	2.43	137.18	0.035398	274
Niagara_MainFeeder	2	183.62	91.81	19.095238	11568
Northcote_EastFeeder	1.888889	48.27	25.55	3.777778	434
Northcote_WestFeeder	2	39.4	19.7	5	197
Nortonville_MainFeeder	1.233333	26.69	21.64	4.683333	1601
Norwich_MainFeeder	2.076923	100.65	48.46	6.025641	3925
Oakes_North_SouthFeeder	1	21.4	21.4	3.002841	7533
Oakes_South_EastFeeder	1	21.52	21.52	2.002994	7186
Oakes_South_SouthFeeder	0.745	15.96	21.43	1.24	3193
Oakes_South_WestFeeder	1	21.42	21.42	3.002717	7881
Oberon_MainFeeder	0.01	0.66	65.68	0.08	66
Oriska_MainFeeder	3.337209	228.28	68.4	2.139535	19632
Oslo_MainFeeder	0.020619	2.52	122.25	0.072165	245
Oslo_Manvel	0.023973	7.01	292.31	0.075342	2046
Osnabrock_Jct_MainFeeder	5	430.28	86.06	9.157895	8175
Page_Nolan_and_RuralFeeder	0.090909	25.72	282.97	0.212121	849
Page_PageFeeder	3	693.43	231.14	6	78358
Parshall_EastFeeder	5	327.09	65.42	12.003846	85044
Parshall_WestFeeder	4	192.8	48.2	28.004396	87724
Pekin_MainFeeder	2.684211	527.65	196.58	14.021052	50127
Pembina_EastFeeder	2	180.89	90.45	7.017308	94065
Pembina_WestFeeder	2	12.85	6.42	4	2442
Penn_MainFeeder	8.846154	481.19	54.4	10	12511
Petersburg_East_Rural_MainFeeder	7	2889.53	412.79	21	2890
Petersburg_MainFeeder	4	318.28	79.57	19.011173	56973
Plummer_MainFeeder	2	412.71	206.36	7.004975	82956
Regan_MainFeeder	3.565217	358.92	100.67	4.956522	16510
Rock_Lake_MainFeeder	6.021956	408.94	67.91	14.491018	204879
Rogers_Leal_Leal_and_RuralFeeder	1.05	246.14	234.42	1.05	9846
Rogers_Leal_RogersFeeder	0.586956	126.42	215.38	1.195652	5815
Rolette_MainFeeder	3.420188	64.94	18.99	13.535212	27666
Rolla_Northwest_St_JohnFeeder	3	270.06	90.02	20.016064	67246
Rolla_Southeast_EastFeeder	5	103.98	20.8	23.00363	57294
Rolla_Southeast_WestFeeder	6	121.51	20.25	38.015037	32323
Rosholt_MainFeeder	0	0	0	6	0

Feeder	SAIFI	SAIDI (minutes)	CAIDI (minutes)	MAIFI	Total Sustained Customer Minutes
Roth_MainFeeder	1.2	74.81	62.35	3.2	748
Rugby_NorthWest_EastFeeder	1	352.73	352.73	8.002793	378835
Rugby_NorthWest_WestFeeder	0.009434	1.15	121.38	0.036388	850
Rugby_South_EastFeeder	1	6.55	6.55	4.002666	2456
Rugby_South_WestFeeder	1	6.55	6.55	4.005666	2312
Russell_MainFeeder	1	101.35	101.35	3	1520
Ryder_MainFeeder	5.438016	521.6	95.92	12.752066	63113
Sanborn_MainFeeder	0	0	0	3	0
Sardis_Brocket_MainFeeder	5.046875	565.31	112.01	6.765625	36180
Sawyer_MainFeeder	2.367521	56.31	23.78	1.84188	13177
Selz_MainFeeder	0.711864	44.76	62.88	2.864407	2641
Shepard_Main_and_RuralFeeder	0.857143	72.49	84.57	2.571429	1015
Sheyenne_GravelPit_MainFeeder	1	65.72	65.72	4.333333	197
Sheyenne_MainFeeder	1	65.7	65.7	4.005263	12483
Simcoe_MainFeeder	1.428571	126.24	88.37	1.714286	884
Souris_MainFeeder	1.421053	89.28	62.83	4.328948	6786
Spiritwood_MainFeeder	3	399.55	133.18	0	15982
St_Michaels_Mission_MainFeeder	1	7.14	7.14	7.785714	200
St_Thomas_SouthEastFeeder	3.034783	214.2	70.58	17.086956	49265
St_Thomas_SouthWestFeeder	2.065421	145.22	70.31	15.028037	15539
Streeter_MainFeeder	7.008474	224.27	32	17.076271	52928
Surrey_MainFeeder	3	100.59	33.53	6	302
Sweetwater_MainFeeder	1	23.07	23.07	3	92
Sykeston_MainFeeder	3	262.11	87.37	11.006849	38269
Tokio_MainFeeder	0	0	0	2.111111	0
Tower_City_MainFeeder	4	184.75	46.19	6.010204	36210
Towner_EastFeeder	1	7.94	7.94	4.022599	1405
Towner_WestFeeder	1.677885	32.97	19.65	4.329327	13717
Turtle_Lake_MainFeeder	6	380.52	63.42	19	78006
Tuttle_MainFeeder	3.021583	432.1	143	7.043166	60061
Tyler_MainFeeder	0	0	0	2	0
Underwood_ND_NorthFeeder	3	108.75	36.25	15.647058	27731
Underwood_ND_SouthFeeder	3	108.73	36.24	14	18267
Urbana_MainFeeder	0	0	0	3.1	0
Velva_EastFeeder	2.005666	137.4	68.51	2.002833	48502
Velva_WestFeeder	1.004124	125.9	125.38	3	61061
Verona_MainFeeder	2	121.47	60.73	11.01087	11175
Victor_NorthFeeder	2	96.73	48.37	5.018868	10254
Victor_SouthFeeder	0.06383	1.31	20.51	0.255319	62
Voltaire_MainFeeder	1	145.28	145.28	8	6974
Wabek_Plaza_MainFeeder	4	401.88	100.47	13.013575	88816
Wahpeton_N_115_NEWahpeton_and_WestRural	3	173.4	57.8	0	5375
Wahpeton_N_115_WellLine	0	0	0	0.0625	0

Feeder	SAIFI	SAIDI (minutes)	CAIDI (minutes)	MAIFI	Total Sustained Customer Minutes
Wahpeton_NW_EastFeeder	0.00303	0.17	57.11	0.456061	114
Wahpeton_NW_IndianSchool_CollegeFeeder	0.008155	8.6	1054.39	1.369011	8435
Wahpeton_NW_NorthRiser	0.777778	31.71	40.77	3.111111	285
Wahpeton_NW_NorthwestFeeder	0	0	0	2.001603	0
Wahpeton_NW_SchoolsFeeder	0	0	0	1.770318	0
Wahpeton_NW_SouthFeeder	0	0	0	1.891323	0
Wahpeton_SE_Beijo_Estates_SE_Wahpeton	0	0	0	3	0
Wahpeton_SE_SouthwestFeeder	0	0	0	3	0
Wahpeton_SE_WestFeeder	0.454545	14.39	31.65	1.8	791
Walcott_MainFeeder	1	38.33	38.33	9.33721	6592
Walhalla_EastFeeder	1	7.63	7.63	3	31
Walhalla_NorthMainFeeder	3	290.05	96.68	3	85565
Walum_Jct_Walum_Sibley_Luverne_KarnakFeeder	5	324.31	64.86	4.00885	36648
Walum_Karnak_Sibley_Luverne_MainFeeder	5	324.48	64.9	5.00885	36666
Warwick_MainFeeder	1	28.55	28.55	17.028572	1998
Warwick_Wells_MainFeeder	3.5	1102.37	314.96	14.5	2205
Washburn_NorthwestFeeder	5	65.15	13.03	10	17656
Washburn_SoutheastFeeder	5	65.05	13.01	10	14181
Webster_MainFeeder	3	189.9	63.3	3.02439	7786
Westhope_EastFeeder	0	0	0	1.731959	0
Wheatland_MainFeeder	5.056604	661.29	130.78	6.09434	35048
Willow_City_MainFeeder	1.005	377.94	376.06	8.015	75588
WiltonND_Rural_MainFeeder	3	567.5	189.17	5.4	2838
Windsor_MainFeeder	7.368421	540.72	73.38	15.578947	10274
Wing_MainFeeder	3.318182	4985.32	1502.42	6.401515	658062
Wyndmere_MainFeeder	5.075862	97.32	19.17	22.652874	42334
York_MainFeeder	0	0	0	2	0

**Major Service Interruption - Annual Summary (Outage Report)  
2022 Report**

**Background**

In August 2005, Otter Tail Power Company (Otter Tail) agreed to provide the North Dakota Public Service Commission with service interruption information that entailed interruptions within North Dakota (ND) affecting 500 or more customers for one hour or more.

Event	Location	Customers	Start Time	End Time	Duration	Cause
1	Gackle	132	1/13/2022 11:45	1/13/2022 12:55	1:10:11	Patrolled the line several times - cause not identified
	Medina	107	1/13/2022 11:45	1/13/2022 12:49	1:03:56	Patrolled the line several times - cause not identified
	Gackle Rural	16	1/13/2022 11:46	1/13/2022 12:49	1:02:57	Patrolled the line several times - cause not identified
	Medina	194	1/13/2022 11:46	1/13/2022 12:49	1:02:57	Patrolled the line several times - cause not identified
	Streeter	236	1/13/2022 11:46	1/13/2022 12:49	1:10:56	Patrolled the line several times - cause not identified
	Cleveland	94	1/13/2022 11:45	1/13/2022 12:47	1:01:21	Patrolled the line several times - cause not identified
	Windsor	8	1/13/2022 11:45	1/13/2022 12:47	1:10:21	Patrolled the line several times - cause not identified
	Eldridge	46	1/13/2022 11:46	1/13/2022 12:55	1:10:21	Patrolled the line several times - cause not identified
	Windsor	13	1/13/2022 11:45	1/13/2022 12:47	1:00:21	Patrolled the line several times - cause not identified
	Jamestown	32	1/13/2022 11:46	1/14/2022 13:28	1:41:56	Patrolled the line several times - cause not identified
	Millerton/Montpelier	63	1/13/2022 11:46	1/15/2022 15:36	3:49:56	Patrolled the line several times - cause not identified
2	Ardoch	11	2/1/2022 2:31	2/1/2022 3:57	1:26:08	Ice and high winds caused lines to gallop. A 41.6KV insulator broke on the center phase. Restoration took longer due to the weather conditions.
	Fordville	331	2/1/2022 2:31	2/2/2022 3:57	1:26:08	Ice and high winds caused lines to gallop. A 41.6KV insulator broke on the center phase. Restoration took longer due to the weather conditions.
	Forest River	84	2/1/2022 2:31	2/1/2022 3:57	1:26:08	Ice and high winds caused lines to gallop. A 41.6KV insulator broke on the center phase. Restoration took longer due to the weather conditions.
	Ardoch	4	2/1/2022 2:31	2/1/2022 3:57	1:26:08	Ice and high winds caused lines to gallop. A 41.6KV insulator broke on the center phase. Restoration took longer due to the weather conditions.
	Minto	451	2/1/2022 2:31	2/1/2022 3:57	1:26:08	Ice and high winds caused lines to gallop. A 41.6KV insulator broke on the center phase. Restoration took longer due to the weather conditions.
	Ardoch	6	2/1/2022 2:32	2/1/2022 3:57	1:25:08	Ice and high winds caused lines to gallop. A 41.6KV insulator broke on the center phase. Restoration took longer due to the weather conditions.
	Gilby	74	2/1/2022 2:32	2/1/2022 3:57	1:25:08	Ice and high winds caused lines to gallop. A 41.6KV insulator broke on the center phase. Restoration took longer due to the weather conditions.
	Inkster	28	2/1/2022 2:32	2/3/2022 3:57	1:25:08	Ice and high winds caused lines to gallop. A 41.6KV insulator broke on the center phase. Restoration took longer due to the weather conditions.
3	Jamestown	639	4/6/2022 17:48	4/6/2022 20:25	2:36:58	Failed breaker
4	Antler/Kuroki	203	4/19/2022 10:12	4/19/2022 11:48	1:35:18	Broken insulator
	Erie	38	4/19/2022 10:12	4/19/2022 11:48	1:35:18	Broken insulator
	Page	113	4/19/2022 10:12	4/19/2022 11:48	1:35:22	Broken insulator
	Ayr	53	4/19/2022 10:12	4/19/2022 11:13	1:00:32	Broken insulator
	Colgate	67	4/19/2022 10:12	4/19/2022 12:39	2:26:43	Broken insulator
	Galesburg/Clifford	174	4/19/2022 10:12	4/19/2022 12:39	2:26:57	Broken insulator

Event	Location	Customers	Start Time	End Time	Duration	Cause
5	Parshall	715	4/23/2022 18:01	4/23/2022 20:17	2:15:51	The rain, ice and wind that rolled through these communities caused trees to go through power lines and downed poles. We lost insulators and cross arms. The weather made travel and repairs difficult. Several communities experienced recurring interruptions.
	Ryder	50	4/23/2022 18:01	4/23/2022 20:17	2:15:51	The rain, ice and wind that rolled through these communities caused trees to go through power lines and downed poles. We lost insulators and cross arms. The weather made travel and repairs difficult. Several communities experienced recurring interruptions.
	Wabek	221	4/23/2022 18:01	4/23/2022 20:17	2:15:51	The rain, ice and wind that rolled through these communities caused trees to go through power lines and downed poles. We lost insulators and cross arms. The weather made travel and repairs difficult. Several communities experienced recurring interruptions.
	Douglas	67	4/23/2022 18:01	4/23/2022 20:17	2:15:43	The rain, ice and wind that rolled through these communities caused trees to go through power lines and downed poles. We lost insulators and cross arms. The weather made travel and repairs difficult. Several communities experienced recurring interruptions.
	Makoti	94	4/23/2022 18:01	4/23/2022 20:17	2:15:43	The rain, ice and wind that rolled through these communities caused trees to go through power lines and downed poles. We lost insulators and cross arms. The weather made travel and repairs difficult. Several communities experienced recurring interruptions.
	Ryder	50	4/23/2022 18:01	4/23/2022 20:17	2:15:43	The rain, ice and wind that rolled through these communities caused trees to go through power lines and downed poles. We lost insulators and cross arms. The weather made travel and repairs difficult. Several communities experienced recurring interruptions.
	Ryder	51	4/23/2022 18:01	4/23/2022 20:15	2:14:07	The rain, ice and wind that rolled through these communities caused trees to go through power lines and downed poles. We lost insulators and cross arms. The weather made travel and repairs difficult. Several communities experienced recurring interruptions.
	Max	203	4/23/2022 18:01	4/23/2022 20:14	2:12:29	The rain, ice and wind that rolled through these communities caused trees to go through power lines and downed poles. We lost insulators and cross arms. The weather made travel and repairs difficult. Several communities experienced recurring interruptions.
6	Max	203	4/23/2022 22:29	4/24/2022 1:02	2:33:10	The rain, ice and wind that rolled through these communities caused trees to go through power lines and downed poles. We lost insulators and cross arms. The weather made travel and repairs difficult. Several communities experienced recurring interruptions.
	Makoti	52	4/23/2022 22:29	4/24/2022 1:02	2:33:10	The rain, ice and wind that rolled through these communities caused trees to go through power lines and downed poles. We lost insulators and cross arms. The weather made travel and repairs difficult. Several communities experienced recurring interruptions.
	Wabek	221	4/23/2022 22:29	4/24/2022 1:02	2:33:07	The rain, ice and wind that rolled through these communities caused trees to go through power lines and downed poles. We lost insulators and cross arms. The weather made travel and repairs difficult. Several communities experienced recurring interruptions.
	Makoti	52	4/23/2022 22:29	4/24/2022 1:02	2:33:07	The rain, ice and wind that rolled through these communities caused trees to go through power lines and downed poles. We lost insulators and cross arms. The weather made travel and repairs difficult. Several communities experienced recurring interruptions.
	Douglas	67	4/23/2022 22:29	4/24/2022 1:02	2:33:07	The rain, ice and wind that rolled through these communities caused trees to go through power lines and downed poles. We lost insulators and cross arms. The weather made travel and repairs difficult. Several communities experienced recurring interruptions.
7	Parshall	715	4/23/2022 22:29	4/23/2022 23:50	1:21:12	The rain, ice and wind that rolled through these communities caused trees to go through power lines and downed poles. We lost insulators and cross arms. The weather made travel and repairs difficult. Several communities experienced recurring interruptions.

Event	Location	Customers	Start Time	End Time	Duration	Cause
8	Coleharbor	56	4/24/2022 8:21	4/24/2022 9:43	1:21:49	The rain, ice and wind that rolled through these communities caused trees to go through power lines and downed poles. We lost insulators and cross arms. The weather made travel and repairs difficult. Several communities experienced recurring interruptions.
	Underwood_ND	161	4/24/2022 8:21	4/24/2022 9:43	1:21:45	The rain, ice and wind that rolled through these communities caused trees to go through power lines and downed poles. We lost insulators and cross arms. The weather made travel and repairs difficult. Several communities experienced recurring interruptions.
	Underwood_ND	180	4/24/2022 8:21	4/24/2022 9:43	1:21:40	The rain, ice and wind that rolled through these communities caused trees to go through power lines and downed poles. We lost insulators and cross arms. The weather made travel and repairs difficult. Several communities experienced recurring interruptions.
	Underwood_ND	58	4/24/2022 8:21	4/24/2022 9:43	1:21:29	The rain, ice and wind that rolled through these communities caused trees to go through power lines and downed poles. We lost insulators and cross arms. The weather made travel and repairs difficult. Several communities experienced recurring interruptions.
	Underwood_ND	293	4/24/2022 8:21	4/24/2022 9:43	1:21:29	The rain, ice and wind that rolled through these communities caused trees to go through power lines and downed poles. We lost insulators and cross arms. The weather made travel and repairs difficult. Several communities experienced recurring interruptions.
9	Garrison	892	4/24/2022 8:44	4/24/2022 10:09	1:24:40	The rain, ice and wind that rolled through these communities caused trees to go through power lines and downed poles. We lost insulators and cross arms. The weather made travel and repairs difficult. Several communities experienced recurring interruptions.
10	Ryder	86	4/24/2022 8:47	4/24/2022 11:22	2:34:51	The rain, ice and wind that rolled through these communities caused trees to go through power lines and downed poles. We lost insulators and cross arms. The weather made travel and repairs difficult. Several communities experienced recurring interruptions.
	Parshall	715	4/24/2022 8:47	4/24/2022 11:22	2:34:51	The rain, ice and wind that rolled through these communities caused trees to go through power lines and downed poles. We lost insulators and cross arms. The weather made travel and repairs difficult. Several communities experienced recurring interruptions.
	Makoti	52	4/24/2022 8:47	4/24/2022 11:22	2:34:51	The rain, ice and wind that rolled through these communities caused trees to go through power lines and downed poles. We lost insulators and cross arms. The weather made travel and repairs difficult. Several communities experienced recurring interruptions.
	Wabek	221	4/24/2022 8:47	4/24/2022 11:22	2:34:51	The rain, ice and wind that rolled through these communities caused trees to go through power lines and downed poles. We lost insulators and cross arms. The weather made travel and repairs difficult. Several communities experienced recurring interruptions.
	Douglas	67	4/24/2022 8:47	4/24/2022 11:20	2:32:41	The rain, ice and wind that rolled through these communities caused trees to go through power lines and downed poles. We lost insulators and cross arms. The weather made travel and repairs difficult. Several communities experienced recurring interruptions.
	Max	203	4/24/2022 8:47	4/24/2022 11:07	2:20:03	The rain, ice and wind that rolled through these communities caused trees to go through power lines and downed poles. We lost insulators and cross arms. The weather made travel and repairs difficult. Several communities experienced recurring interruptions.
	Ryder	50	4/24/2022 8:47	4/24/2022 11:22	2:34:50	The rain, ice and wind that rolled through these communities caused trees to go through power lines and downed poles. We lost insulators and cross arms. The weather made travel and repairs difficult. Several communities experienced recurring interruptions.
11	Ryder	50	4/24/2022 12:50	4/24/2022 14:06	1:15:42	The rain, ice and wind that rolled through these communities caused trees to go through power lines and downed poles. We lost insulators and cross arms. The weather made travel and repairs difficult. Several communities experienced recurring interruptions.
	Parshall	715	4/24/2022 12:50	4/24/2022 14:06	1:15:42	The rain, ice and wind that rolled through these communities caused trees to go through power lines and downed poles. We lost insulators and cross arms. The weather made travel and repairs difficult. Several communities experienced recurring interruptions.
	Makoti	52	4/24/2022 12:50	4/24/2022 14:06	1:15:42	The rain, ice and wind that rolled through these communities caused trees to go through power lines and downed poles. We lost insulators and cross arms. The weather made travel and repairs difficult. Several communities experienced recurring interruptions.
	Wabek	221	4/24/2022 12:50	4/24/2022 14:06	1:15:43	The rain, ice and wind that rolled through these communities caused trees to go through power lines and downed poles. We lost insulators and cross arms. The weather made travel and repairs difficult. Several communities experienced recurring interruptions.
	Ryder	86	4/24/2022 12:50	4/24/2022 14:06	1:15:43	The rain, ice and wind that rolled through these communities caused trees to go through power lines and downed poles. We lost insulators and cross arms. The weather made travel and repairs difficult. Several communities experienced recurring interruptions.

Event	Location	Customers	Start Time	End Time	Duration	Cause
12	Milnor	554	5/8/2022 16:47	5/8/2022 18:52	2:04:33	Bad arrestor
13	Ardoch	42	5/25/2022 16:12	5/25/2022 17:13	1:01:30	Failed insulator
	Ardoch	4	5/25/2022 16:12	5/25/2022 17:13	1:01:23	Failed insulator
	Minto	451	5/25/2022 16:12	5/25/2022 17:13	1:01:19	Failed insulator
	Forest River	84	5/25/2022 16:12	5/25/2022 17:13	1:01:16	Failed insulator
14	Calvin	130	5/29/2022 9:54	5/29/2022 11:50	1:55:39	Bad insulator tracking across and burning the cross arm off.
	Rock Lake	347	5/29/2022 9:54	5/29/2022 11:50	1:55:30	Bad insulator tracking across and burning the cross arm off.
	Rock Lake	194	5/29/2022 9:54	5/29/2022 11:50	1:55:21	Bad insulator tracking across and burning the cross arm off.
15	Jamestown	747	6/9/2022 15:45	6/9/2022 18:07	2:22:09	Underground primary fault
16	St. Thomas	331	6/18/2022 14:53	6/18/2022 18:01	3:07:37	Tree across a 40 kV line by Grafton.
	Hansel	31	6/18/2022 14:53	6/18/2022 18:01	3:07:24	Tree across a 40 kV line by Grafton.
	Hoople	185	6/18/2022 14:54	6/18/2022 18:01	3:07:22	Tree across a 40 kV line by Grafton.
	Crystal	116	6/18/2022 14:53	6/18/2022 18:01	3:07:22	Tree across a 40 kV line by Grafton.
17	Jamestown	572	6/20/2022 22:54	6/21/2022 0:28	1:34:57	Breaker tripped near Jamestown. Windstorm and rain prior in the evening that may have been the cause.
18	Jamestown	572	6/21/2022 12:09	6/21/2022 13:40	1:31:00	Broken arrestor
19	Minto	451	6/24/2022 22:36	6/25/2022 1:45	3:08:22	Poles and cross arms hit and destroyed by lightning.
	Ardoch	45	6/24/2022 22:36	6/25/2022 1:06	2:30:20	Poles and cross arms hit and destroyed by lightning.
	Forest River	84	6/24/2022 22:36	6/25/2022 1:06	2:30:05	Poles and cross arms hit and destroyed by lightning.
20	Velva	838	7/10/2022 4:24	7/10/2022 6:30	2:05:52	Broken insulator and a tree in the 41.6 line north to Simcoe. It took a while to locate the issue.
21	Rugby	1074	7/22/2022 22:02	7/23/2022 3:55	5:52:44	Major storm event with winds in excess of 70 miles an hour. Broken transmission conductor and a lightning strike in the substation that affected the Langdon area and a number of poles and wires down that affected Rugby.
	Langdon	1225	7/22/2022 23:38	7/23/2022 0:46	1:07:16	Major storm event with winds in excess of 70 miles an hour. Broken transmission conductor and a lightning strike in the substation that affected the Langdon area and a number of poles and wires down that affected Rugby.
22	McClusky	312	9/23/2022 1:15	9/23/2022 2:39	1:23:00	Lightning hit a pole that took out a 41.6 kV line.
	Turtle Lake	205	9/23/2022 1:15	9/23/2022 2:39	1:24:00	Lightning hit a pole that took out a 41.6 kV line.
23	Fingal	258	11/9/2022 22:49	11/9/2022 23:56	1:07:11	Winter storm with rain, ice and wind rolling through our service territory. We experienced damage to our lines, poles, insulators, etc. The storm continued to develop rain in certain parts of our service territory that increased the ice build-up on our lines. Lines were hanging near the ground in some areas and poles were snapping from the weight.
	Tower City	196	11/9/2022 22:49	11/9/2022 23:56	1:07:11	Winter storm with rain, ice and wind rolling through our service territory. We experienced damage to our lines, poles, insulators, etc. The storm continued to develop rain in certain parts of our service territory that increased the ice build-up on our lines. Lines were hanging near the ground in some areas and poles were snapping from the weight.
	Oriska	59	11/9/2022 22:49	11/9/2022 23:56	1:07:11	Winter storm with rain, ice and wind rolling through our service territory. We experienced damage to our lines, poles, insulators, etc. The storm continued to develop rain in certain parts of our service territory that increased the ice build-up on our lines. Lines were hanging near the ground in some areas and poles were snapping from the weight.

Event	Location	Customers	Start Time	End Time	Duration	Cause
24	Jamestown	1104	11/10/2022 4:06	11/10/2022 7:29	3:22:53	Winter storm with rain, ice and wind rolling through our service territory. We experienced damage to our lines, poles, insulators, etc. The storm continued to develop rain in certain parts of our service territory that increased the ice build-up on our lines. Lines were hanging near the ground in some areas and poles were snapping from the weight.
	Jamestown	15	11/10/2022 4:05	11/10/2022 7:29	3:23:53	Winter storm with rain, ice and wind rolling through our service territory. We experienced damage to our lines, poles, insulators, etc. The storm continued to develop rain in certain parts of our service territory that increased the ice build-up on our lines. Lines were hanging near the ground in some areas and poles were snapping from the weight.
	Jamestown	1560	11/10/2022 3:47	11/10/2022 7:29	3:41:23	Winter storm with rain, ice and wind rolling through our service territory. We experienced damage to our lines, poles, insulators, etc. The storm continued to develop rain in certain parts of our service territory that increased the ice build-up on our lines. Lines were hanging near the ground in some areas and poles were snapping from the weight.
	Windsor	19	11/10/2022 3:47	11/10/2022 7:21	3:34:13	Winter storm with rain, ice and wind rolling through our service territory. We experienced damage to our lines, poles, insulators, etc. The storm continued to develop rain in certain parts of our service territory that increased the ice build-up on our lines. Lines were hanging near the ground in some areas and poles were snapping from the weight.
	Streeter	236	11/10/2022 3:47	11/10/2022 7:21	3:34:13	Winter storm with rain, ice and wind rolling through our service territory. We experienced damage to our lines, poles, insulators, etc. The storm continued to develop rain in certain parts of our service territory that increased the ice build-up on our lines. Lines were hanging near the ground in some areas and poles were snapping from the weight.
	Gackle	185	11/10/2022 3:47	11/10/2022 7:21	3:34:13	Winter storm with rain, ice and wind rolling through our service territory. We experienced damage to our lines, poles, insulators, etc. The storm continued to develop rain in certain parts of our service territory that increased the ice build-up on our lines. Lines were hanging near the ground in some areas and poles were snapping from the weight.
	Eldridge	46	11/10/2022 3:47	11/10/2022 7:21	3:34:13	Winter storm with rain, ice and wind rolling through our service territory. We experienced damage to our lines, poles, insulators, etc. The storm continued to develop rain in certain parts of our service territory that increased the ice build-up on our lines. Lines were hanging near the ground in some areas and poles were snapping from the weight.
	Cleveland	94	11/10/2022 3:47	11/10/2022 7:21	3:34:13	Winter storm with rain, ice and wind rolling through our service territory. We experienced damage to our lines, poles, insulators, etc. The storm continued to develop rain in certain parts of our service territory that increased the ice build-up on our lines. Lines were hanging near the ground in some areas and poles were snapping from the weight.
25	Davenport	142	12/13/2022 4:54	12/13/2022 6:49	1:54:52	Winter storm and a broken insulator near Davenport.
	Kindred	454	12/13/2022 4:54	12/13/2022 5:56	1:01:57	Winter storm and a broken insulator near Davenport.
26	Surrey	543	12/16/2022 4:17	12/16/2022 5:26	1:09:41	Broken tire wire causing a phase to contact another phase and trip the breaker.
	Norwich	39	12/16/2022 4:17	12/16/2022 5:26	1:09:35	Broken tire wire causing a phase to contact another phase and trip the breaker.
	Deering	75	12/16/2022 4:17	12/16/2022 5:26	1:09:34	Broken tire wire causing a phase to contact another phase and trip the breaker.