

Ellendale JCT-Ellendale North Sub
 Ellendale North Sub - Ellendale Plant Sub
 Ellendale 345/230 kV transformer

Total time out	137:46:17
Total time out	83:18:44
Total time out	147:55:06

Number of outages	34
Number of outages	24
Number of outages	3

Date/Time Out	Date/Time In	Duration	Outage Element
01/10/2017 00:37:07	01/10/2017 07:39:54	7:02:47	ELLENDALE JCT - ElndlJ-ElndIN C
01/10/2017 00:37:07	01/10/2017 07:39:54	7:02:47	ELNDAL-ELNDAL C - Ellendale Ellendale North Ellendale South Elndle-EldNSb C Elndle-EldSSb C
02/13/2017 09:49:27	02/13/2017 11:32:05	1:42:38	ELLENDALE JCT - ElndlJ-ElndIN C
02/13/2017 11:32:52	02/13/2017 11:34:44	0:01:52	ELLENDALE JCT - ElndlJ-ElndIN C
02/16/2017 09:08:13	02/16/2017 10:16:13	1:08:00	ELLENDALE JCT - ElndlJ-ElndIN C
02/16/2017 10:16:40	02/16/2017 10:18:37	0:01:57	ELLENDALE JCT - ElndlJ-ElndIN C
06/25/2017 19:44:34	06/25/2017 19:44:37	0:00:03	ELLENDALE JCT - ElndlJ-ElndIN C
06/25/2017 19:44:34	06/25/2017 19:44:37	0:00:03	ELNDAL-ELNDAL C - Ellendale North Elndle-EldSSb C Elndle-EldNSb C Ellendale South Ellendale
06/07/2018 11:42:10	06/07/2018 11:42:15	0:00:05	ELLENDALE JCT - ElndlJ-ElndIN C
06/07/2018 11:42:10	06/07/2018 11:42:15	0:00:05	ELNDAL-ELNDAL C - Ellendale Elndle-EldNSb C Elndle-EldSSb C Ellendale North Ellendale South
06/07/2018 12:02:36	06/07/2018 12:05:18	0:02:42	ELLENDALE JCT - ElndlJ-ElndIN C
06/07/2018 12:02:36	06/07/2018 12:05:18	0:02:42	ELNDAL-ELNDAL C - Ellendale Ellendale North Elndle-EldSSb C Elndle-EldNSb C Ellendale South
06/07/2018 13:02:57	06/07/2018 13:05:21	0:02:24	ELLENDALE JCT - ElndlJ-ElndIN C

63 PU-22-370 Filed 12/19/2022 Pages: 9
 Exhibit MDU16 - Ellendale jcts sub-Ellendale plant sub outage history
 Montana-Dakota Utilities Co.

65 PU-22-366 Filed 12/19/2022 Pages: 9
 Exhibit MDU16 - Ellendale jcts sub-Ellendale plant sub outage history
 Montana-Dakota Utilities Co.



06/07/2018 13:02:57	06/07/2018 13:05:21	0:02:24	ELNDAL-ELNDAL C - Elndle-EldSSb C Elndle-EldNSb C Ellendale South Ellendale Ellendale North
06/07/2018 13:05:24	06/07/2018 13:07:18	0:01:54	ELLENDAL JCT - ElndlJ-Elndln C
06/07/2018 13:05:24	06/07/2018 13:07:18	0:01:54	ELNDAL-ELNDAL C - Ellendale South Ellendale Ellendale North Elndle-EldSSb C Elndle-EldNSb C
06/08/2018 13:49:52	06/08/2018 13:51:55	0:02:03	ELLENDAL JCT - ElndlJ-Elndln C
06/08/2018 13:49:52	06/08/2018 13:51:55	0:02:03	ELNDAL-ELNDAL C - Ellendale North Ellendale South Ellendale Elndle-EldNSb C Elndle-EldSSb C
06/12/2018 10:57:30	06/12/2018 11:19:37	0:22:07	ELLENDAL JCT - ElndlJ-ForbsT C ElndlJ-Elndln C Ellendl Jct 1/C ElndlJ-ElndTp C ElndlJ-ElndlT C
06/12/2018 10:57:30	06/12/2018 11:19:37	0:22:07	ELNDAL-ELNDAL C - Ellendale South Ellendale Elndle-EldNSb C Ellendale North Elndle-EldSSb C
07/10/2018 06:22:09	07/10/2018 06:22:13	0:00:04	ELLENDAL JCT - ElndlJ-Elndln C
07/10/2018 06:22:09	07/10/2018 06:22:13	0:00:04	ELNDAL-ELNDAL C - Elndle-EldNSb C Ellendale South Ellendale Ellendale North Elndle-EldSSb C
02/26/2019 16:26:03	02/26/2019 16:28:25	0:02:22	ELLENDAL JCT - ElndlJ-ForbsT C ElndlJ-ElndlT C Ellendl Jct 1/C ElndlJ-Elndln C ElndlJ-ElndTp C
02/26/2019 16:26:03	02/26/2019 16:28:25	0:02:22	ELNDAL-ELNDAL C - Ellendale South Elndle-EldSSb C Ellendale Ellendale North Elndle-EldNSb C
03/16/2019 14:02:21	03/16/2019 15:01:16	0:58:55	ELLENDAL JCT - ElndlJ-Elndln C

03/16/2019 14:02:21	03/16/2019 15:01:16	0:58:55	ELNDAL-ELNDAL C - Ellendale North Elndle-EldNSb C Ellendale South Elndle-EldSSb C Ellendale
12/16/2019 22:00:48	12/17/2019 00:06:51	2:06:03	ELLENDAL JCT - ElndlJ-ElndlN C
03/18/2020 08:20:37	03/18/2020 08:20:40	0:00:03	ELLENDAL JCT - ElndlJ-ElndlN C
03/18/2020 08:20:37	03/18/2020 08:20:40	0:00:03	ELNDAL-ELNDAL C - Elndle-EldSSb C Elndle-EldNSb C Ellendale South Ellendale Ellendale North
06/17/2020 17:44:30	06/17/2020 17:44:34	0:00:04	ELLENDAL JCT - ElndlJ-ElndlN C
06/17/2020 17:44:30	06/17/2020 17:44:34	0:00:04	ELNDAL-ELNDAL C - Ellendale North Ellendale South Ellendale Elndle-EldNSb C Elndle-EldSSb C
06/29/2020 17:52:47	06/30/2020 12:30:46	18:37:59	ELLENDAL JCT - ElndlJ-ElndlN C
06/30/2020 12:33:30	06/30/2020 13:20:38	0:47:08	ELLENDAL JCT - ElndlJ-ElndlN C
11/05/2020 10:32:33	11/05/2020 10:36:30	0:03:57	ELLENDAL JCT - Ellendl Jct 1/C ElndlJ-ElndlT C ElndlJ-ElndTp C ElndlJ-ElndlN C
11/05/2020 10:32:33	11/05/2020 10:36:30	0:03:57	ELNDAL-ELNDAL C - Elndle-EldNSb C Ellendale South Ellendale Elndle-EldSSb C Ellendale North
12/30/2020 10:49:13	12/30/2020 10:49:15	0:00:02	ELLENDAL JCT - Ellendl Jct 1/C ElndlJ-ElndTp C ElndlJ-ForbsT C Ellendl J 2/1-T Ellendl J 2/1-H Ellendl J 2/1-L ElndlJ-ElndlT C ElndlJ-ElndlN C
12/30/2020 10:49:13	12/30/2020 10:49:15	0:00:02	ELNDAL-ELNDAL C - Elndle-EldNSb C Ellendale South Elndle-EldSSb C Ellendale Ellendale North
12/30/2020 10:50:01	12/30/2020 10:50:01	0:00:00	ELLENDAL JCT - ElndlJ-ElndlT C ElndlJ-ElndlN C Ellendl Jct 1/C ElndlJ-ElndTp C ElndlJ-ForbsT C

12/30/2020 10:50:01	12/30/2020 10:50:01	0:00:00	ELNDAL-ELNDAL C - Ellendale South Elndle-EldSSb C Ellendale Ellendale North Elndle-EldNSb C
03/22/2021 20:39:56	03/22/2021 20:40:03	0:00:07	ELLENDALE JCT - ElndJ-ForbsT C ElndJ-ElndT C ElndJ-ElndN C
03/22/2021 20:39:56	03/22/2021 20:40:03	0:00:07	ELNDAL-ELNDAL C - Ellendale North Elndle-EldSSb C Ellendale South Ellendale Elndle-EldNSb C
04/05/2021 10:21:04	04/06/2021 15:30:33	29:09:29	ELLENDALE JCT - ElndJ-ElndN C
04/06/2021 15:30:55	04/06/2021 15:41:56	0:11:01	ELLENDALE JCT - ElndJ-ElndN C
06/14/2021 09:41:44	06/17/2021 10:36:20	72:54:36	ELLENDALE 345 - Ellendale 345 3/2
08/19/2021 15:11:05	08/19/2021 15:52:31	0:41:26	ELLENDALE JCT - ElndJ-ElndN C
09/20/2021 11:54:09	09/23/2021 13:08:09	73:14:00	ELLENDALE JCT - ElndJ-ElndN C ElndJ-ElndTp C
09/20/2021 11:54:09	09/23/2021 13:08:09	73:14:00	ELNDAL-ELNDAL C - Ellendale North Elndle-EldNSb C Ellendale South Ellendale Elndle-EldSSb C
10/12/2021 11:32:05	10/12/2021 11:44:24	0:12:19	ELLENDALE 345 - Ellendale 345 3/2
04/26/2022 13:30:47	04/26/2022 13:30:49	0:00:02	ELLENDALE JCT - ElndJ-ElndN C
04/26/2022 13:30:47	04/26/2022 13:30:49	0:00:02	ELNDAL-ELNDAL C - Elndle-EldNSb C Ellendale South Ellendale Ellendale North Elndle-EldSSb C
06/12/2022 20:11:35	06/12/2022 20:56:11	0:44:36	ELLENDALE JCT - ElndJ-ElndN C
06/12/2022 20:11:35	06/12/2022 20:56:11	0:44:36	ELNDAL-ELNDAL C - Elndle-EldNSb C Ellendale Elndle-EldSSb C Ellendale North Ellendale South
06/14/2022 04:59:35	06/14/2022 04:59:39	0:00:04	ELLENDALE JCT - ElndJ-ElndN C
06/14/2022 04:59:35	06/14/2022 04:59:39	0:00:04	ELNDAL-ELNDAL C - Elndle-EldNSb C Elndle-EldSSb C Ellendale North Ellendale South Ellendale

06/27/2022 10:53:23	06/30/2022 13:41:34	74:48:11	ELLENDALE 345 - Ellendale 345 3/2
07/18/2022 22:36:00	07/18/2022 22:36:00	0:00:00	ELLENDALE JCT - Elnd1J-Elnd1N C
07/18/2022 22:36:00	07/18/2022 22:36:00	0:00:00	ELNDAL-ELNDAL C - Ellendale Ellendale North Elndle-EldSSb C Elndle-EldNSb C Ellendale South
07/18/2022 22:37:00	07/18/2022 22:37:00	0:00:00	ELLENDALE JCT - Elnd1J-Elnd1N C
07/18/2022 22:37:00	07/18/2022 22:37:00	0:00:00	ELNDAL-ELNDAL C - Elndle-EldNSb C Ellendale South Ellendale Ellendale North Elndle-EldSSb C
07/18/2022 23:48:31	07/19/2022 00:28:54	0:40:23	ELNDAL-ELNDAL C - Ellendale North Elndle-EldSSb C Elndle-EldNSb C Ellendale South Ellendale
07/18/2022 23:49:01	07/19/2022 00:28:54	0:40:23	ELLENDALE JCT - Elnd1J-Elnd1N C

MONTANA-DAKOTA UTILITIES CO. DISTRIBUTION OUTAGES

Delete Rec

MAIN MENU

Year: 2020 Report ID: 16 District: 506 Problem Date/time: 12/19/2020 1:00:00 PM Partial Restore D/T: Fully Restore D/T: 12/19/2020 2:15:00 PM

Inside City Limits
Outside City Limits

Zone: 0 Town: 394 Section #: 0 Farm Line #: 0 FL Section: 0 Quarter Section: 0

Circuit

Substation: 382DS01 Recloser /Fuse #: 4561 Brk Opers: 0 Lockout (L): Counter Reading: 0

Location of Problem

Equip # 1: 0 Equip # 2: 0 Address: Forbes Dist. line

Sectionalizing device that cleared the fault

Phase	Fault Device	Device #	Fuse Size	Fuse Type	Device Work?
<u>4</u>	<u>Recloser</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>1</u>

What and Why about failure

Failed Item	<u>12</u>
Reason	<u>23</u>
Fault Indic	<u>3</u>
FI Replaced	<u>2</u>

KVA

Customers

Momentary	<u>0</u>	<u>0</u>
Partial Restored	<u>0</u>	<u>0</u>
Fully Restored	<u>2740</u>	<u>202</u>

Summary:

Employee

Call Outs: 0
On Call: Scott Wertz
Filing Report: Scott Wertz

Breaker 4561 opened causing no power to Pheasant Lake, Forbes, and rural customers along route. Contractor High Voltage had breaker in the "one ahot" position, while working on the construction of the new 115 kv line. I contacted contractor Forman, they had bumped into the line with one of the booms on one of thier trucks. they verifies they were all clear of the line, so I closed the breaker energizing all the customers.

NEXT

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MONTANA-DAKOTA UTILITIES CO. DISTRIBUTION OUTAGES

Delete Rec

MAIN MENU

Year: Report ID: District: Problem Date/time: Partial Restore D/T: Fully Restore D/T:

Zone: Town: Section #: Farm Line #: FL Section: Quarter Section:

Circuit

Substation: Recloser /Fuse #: Brk Opers: Lockout (L): Counter Reading:

Location of Problem

Equip # 1: Equip # 2: Address:

Sectionalizing device that cleared the fault

Phase	Fault Device	Device #	Fuse Size	Fuse Type	Device Work?
4	Recloser	0	0	0	1

What and Why about failure

Failed Item	12
Reason	1
Fault Indic	3
FI Replaced	2

KVA

Customers

Momentary	0	0
Partial Restored	0	0
Fully Restored	2740	202

Summary:

Found Forbes dist. line crossing dam at Pheasant Lake iced up in all phases and wrapped together. They were getting moisture off from Pheasant Lake which was not frozen yet, and streaming. Cleared ice from oh lines, they went back into sag, closed breaker and power was restored.

Employee

Call Outs:
 On Call:
 Filing Report:

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MONTANA-DAKOTA UTILITIES CO. DISTRIBUTION OUTAGES

Delete Rec

MAIN MENU

Year: Report ID: District: Problem Date/time: Partial Restore D/T: Fully Restore D/T:

Zone: Town: Section #: Farm Line #: FL Section: Quarter Section:

Circuit

Substation: Recloser /Fuse #: Brk Opers: Lockout (L): Counter Reading:

Location of Problem

Equip # 1: Equip # 2: Address:

Sectionalizing device that cleared the fault

Phase: Fault Device: Device #: Fuse Size: Fuse Type: Device Work?:

What and Why about failure

Failed Item:
Reason:
Fault Indic:
FI Replaced:

Momentary
Partial Restored
Fully Restored

KVA

Customers

Summary:

Employee

Call Outs:
On Call:
Filing Report:

NEXT

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MONTANA-DAKOTA UTILITIES CO. DISTRIBUTION OUTAGES

Delete Rec

MAIN MENU

Year: Report ID: District: Problem Date/time: Partial Restore D/T: Fully Restore D/T:

Inside City Limits
Outside City Limits

Zone: Town: Section #: Farm Line #: FL Section: Quarter Section:

Circuit

Substation: Recloser /Fuse #: Brk Opers: Lockout (L): Counter Reading:

Location of Problem

Equip # 1: Equip # 2: Address:

Sectionalizing device that cleared the fault

Phase	Fault Device	Device #	Fuse Size	Fuse Type	Device Work?
<input type="text" value="4"/>	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text"/>

What and Why about failure

Failed Item:
Reason:
Fault Indic:
FI Replaced:

KVA

Customers

Momentary	<input type="text" value="2758"/>	<input type="text" value="205"/>
Partial Restored	<input type="text" value="0"/>	<input type="text" value="0"/>
Fully Restored	<input type="text" value="0"/>	<input type="text" value="0"/>

Summary:

Employee

Call Outs:
On Call:
Filing Report:

N
E
X
T

T
O
P