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VIA ELECTRONIC
AND U.S. MAIL

August 15, 2013

Darrell Nitschke, Executive Secretary
North Dakota Public Service Commission
Department 408
600 East Boulevard Avenue
Bismarck, ND 58505-0480

Re: **XCEL ENERGY UNDERGROUND CABLE OUTAGE REPORT**
CASE NOS. PU-10-657, PU-11-55

Dear Mr. Nitschke:

Pursuant to the terms of the approved Settlement Agreement in the above referenced case, I hereby submit our second quarter update of underground residential distribution ("URD") cable failures for 2013.

As you will note on page 1, there were 21 URD cable failures in our North Dakota system during the second quarter, 7 of which qualified for replacement under either our cable replacement guidelines or our 500 MCM cable replacement program. I have attached the guidelines to the report for your reference, on page 4.

Please feel free to contact me with any questions or comments you have about the information provided. Thank you.

Sincerely,

DAVID SEDERQUIST
SR. REGULATORY CONSULTANT

cc: Jerry Lein

- 185 PU-11-55 Filed 08/19/2013 Pages: 4
Compliance filing - underground cable outage report - second quarter 2013
Northern States Power Company
David Sederquist

- 210 PU-10-657 Filed 08/19/2013 Pages: 4
Compliance filing - underground cable outage report - second quarter 2013
Northern States Power Company
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Xcel Energy - North Dakota Electric
2013 URD Cable Outage, Review, and Replacement Summary
(Compliance Report - Case Nos. PU-10-657, PU-11-55)

#	Date of Cable Failure	Outage Duration (Hr:Min)	Service Area	Customers Impacted	Date of Engineering Review ¹	Meets Criteria to Replace? ²	Footage To Replace	Scope of Replacement ³	Date of Work Order	Date Project Started	Date Project Completed	Note
1	Jan-01 9:59 PM	4:01	Fargo	79	Jan-07	Yes	1,360	Multiple	Feb-06	May-21		
2	Jan-06 8:07 PM	11:45	Fargo	287	Jan-14	Yes	1,312	Multiple	Feb-15	Jul-01		
3	Jan-24 4:00 AM	3:12	Grand Forks	112	N/A	No						
4	Jan-26 8:00 PM	3:06	Fargo	42	Jan-28	No						
5	Jan-31 1:26 PM	1:31	Fargo	102	Feb-04	Yes		Multiple	Feb-20	In Design		a
6	Feb-08 8:17 PM	2:13	Fargo	81	Feb-11	No						
7	Feb-16 10:13 AM	2:25	Grand Forks	1,139	Feb-18	No						b
8	Feb-19 12:40 PM	3:05	Grand Forks	866	N/A	No						
9	Feb-24 4:51 AM	2:01	Fargo	167	N/A	No						
10	Mar-06 5:36 AM	2:54	Fargo	39	N/A	No						
11	Mar-06 2:29 PM	0:34	Fargo	3,476	Mar-11	Yes	849	Segment	Mar-08	Mar-12	Apr-22	c
12	Mar-29 5:03 PM	1:06	Grand Forks	1,359	N/A	No						
13	Apr-04 9:00 AM	3:03	Fargo	107	N/A	No						
14	Apr-04 3:40 PM	2:04	Minot	2,361	Apr-08	Yes	2,111	Segment	May-07	August		c
15	Apr-16 6:50 AM	2:00	Fargo	7	N/A	No						
16	Apr-18 4:23 AM	2:47	Fargo	145	Apr-22	No						
17	Apr-19 5:48 PM	1:32	Fargo	85	N/A	No						
18	Apr-21 6:14 AM	0:06	Minot	7	Apr-29	No						
19	Apr-21 11:58 AM	2:17	Fargo	161	May-27	No						
20	Apr-27 12:38 PM	4:22	Fargo	2	N/A	No						
21	May-01 8:13 AM	3:37	Minot	136	Jun-03	Yes	1,992	Multiple	May-07	Jun-17	Jul-05	
22	May-02 1:56 AM	4:24	Fargo	147	May-27	No						
23	May-02 11:17 PM	6:29	Grand Forks	3	N/A	No						
24	May-04 5:33 AM	2:12	Fargo	113	N/A	No						
25	May-10 5:56 AM	2:06	Fargo	37	May-13	No						
26	May-30 6:49 AM	1:56	Fargo	1	Jun-10	Yes	194	Multiple	Jun-14	Being Designed		
27	May-31 2:51 PM	1:19	Fargo	1	Jun-10	Yes	194	Multiple	Jun-14	Being Designed		
28	Jun-01 10:54 PM	2:39	Minot	137	Jun-03	Yes	1,992	Multiple	May-17	Jun-17	Jul-05	
29	Jun-05 6:35 PM	0:45	Fargo	151	Jun-10	Yes	522	Segment	Jun-14	Being Designed		
30	Jun-06 1:28 AM	2:39	Grand Forks	165	N/A	No						
31	Jun-14 1:19 AM	5:17	Fargo	77	Jun-17	Yes	95	Segment	Jun-18	Being Designed		
32	Jun-19 10:17 PM	10:13	Fargo	1	N/A	No						
33	Jun-21 8:14 PM	1:06	Minot	52	Jun-24	No						

¹ The Company's Reliability Management System ("REMS") compiles and processes outage-related information and will flag an engineering review if one of the protective devices (i.e., fuse, breaker, recloser) designed to isolate the fault and protect the system operates *twice within a two year period*. The review will determine if a failed cable qualifies for replacement. A designation of "NA" in this column indicates that REMS did not flag such a review for this event.

² See URD Cable Replacement Guidelines summary, attached. Cable may also qualify for replacement under the current 500 MCM replacement program funded under Case. No. PU-10-657.

³ Based on our replacement guidelines, primary cable replacements can involve 1) a single cable segment, 2) multiple cable segments, 3) all common vintaged cable on a radial, or 4) all common vintaged

cable on a half-loop.

Notes

- a. Will be an extensive project with redesign of the underground system.
- b. Headend cable was replaced last summer under the 500 MCM project. This outage was caused by a splice failure.
- c. Replaced under the 500 MCM project (not REMS).

Key:

	1st Qtr
	2nd Qtr
	3rd Qtr
	4th Qtr

Xcel Energy

Underground Residential Distribution Cable Replacement Guidelines

Effective Jan. 1, 2009

Radial Feeds:

- After two cable failures occur anywhere on a given radial within a two year period, any cable segments (on the radial) that have failed within the last two years are replaceable.
- If two thirds (2/3) of the cable segments on the radial qualify for replacement, all segments (on the radial) that are of the *same vintage*, regardless of their failure history are replaceable.

Loop Feeds:

- After two failures occur on any single cable segment within a two year period, the cable segment is replaceable.
- After two failures occur anywhere on the same half of the loop within a two year period, any cable segments that have failed (on the half-loop) within the last two years are replaceable.
- If two thirds (2/3) of the cable segments on the same half of the loop qualify for replacement, all segments (on the half-loop) that are of the *same vintage* are replaceable.

Any Feeder Configuration:

- If a cable replacement project can be shown to reduce the customer minutes out ("CMO") at a cost of \$0.13 or less per reduced CMO, the cable may be replaced.
- If a repaired cable segment fails again within one week after being placed back into service, the cable is replaceable.

Note: Final decisions regarding the replacement (and/or related scheduling) of failed underground cable is subject to the consideration of circumstances not contemplated in the guidelines shown here.