

1 SCOPING AND INFORMATIONAL MEETING - 21-140 & 21-141

2 VIRTUALLY BY WEBEX - JANUARY 27, 2022

3 BEFORE THE MINNESOTA PUBLIC UTILITIES COMMISSION

4 AND DEPARTMENT OF COMMERCE

5  
6 In the Matter of the Application of Minnesota Power for a  
7 Certificate of Need and a Route Permit for the Duluth  
8 Loop Reliability Project

9  
10  
11 MPUC DOCKET NO. 21-140 & 21-141

12  
13  
14  
15 Virtually by WebEx

16  
17  
18  
19  
20 January 27, 2022 - 6:00 p.m.

21  
22  
23  
24  
25 COURT REPORTER: Christine Simons, RPR, RMR

	I N D E X	
	SPEAKER	PAGE
1		
2		
3	Paula Hoena	3
4	Cezar Panait	4
5	Jim Atkinson	14
6	Bill Storm	22
7	Dan Belden	34
8	John Bodell	39
9	Fred Schmitz	41
10	Gage Ritchie	43
11	Allen Widell	45
12		
13		
14		
15		
16		
17		
18		
19		
20		
21		
22		
23		
24		
25		

1 MS. PAULA HOENA: My name is Paula Hoena.  
2 Thank you for attending tonight's public meeting. I  
3 will be the cohost, along with Cezar Panait, for the  
4 Duluth Loop Project tonight.

5 If you are a member of the public and you  
6 wish to comment after the presentation is completed,  
7 you can go ahead and chat me. If you are part of  
8 the Webex session, if you're logged on with video  
9 and audio, I will go ahead and put your name in the  
10 queue for that. And then you will be able to  
11 self-unmute and turn on your video in order to make  
12 your public comment at that time.

13 If you are connected via audio only and  
14 you would -- and you wish to comment, you can press  
15 star 3 on your keypad to raise your hand. I will  
16 then put you in the queue and identify you by the --  
17 well, we would start with the first six digits of  
18 your phone number, but it looks like the two callers  
19 we have right now have the same first six digits, so  
20 we'll go from there. So star 3 to raise your hand,  
21 and then also star 3 to lower your hand.

22 If you are a member of the public and you  
23 need something throughout the meeting, go ahead and  
24 chat me, Paula Hoena, cohost, and I will facilitate  
25 when I am able. If not, I will connect you with

1 Cezar, and we will help you out as much as we can.

2 With that, I'll turn it over to our  
3 panelists for this evening. I'll be on mute if you  
4 need any help, but I will turn off my video and  
5 microphone.

6 But, note, as the host, I can turn on and  
7 turn off your microphone, but I can only stop your  
8 video. I'm not able to start it for you. Note, we  
9 will not be taking any comments through the chat.  
10 If you would like to make a comment, there will be  
11 additional information within the presentation, how  
12 to do that online. Otherwise, you are welcome to  
13 make a comment, also, tonight through your video or  
14 audio connection.

15 Thank you very much, and I'll let Cezar  
16 take it away. Thanks, everybody.

17 Cezar.

18 MR. CEZAR PANAIT: Thank you, Paula.

19 And good evening, everyone. My name is  
20 Cezar Panait. I am an engineer with the Minnesota  
21 Public Utilities Commission, Energy Facilities  
22 Planning Unit.

23 And before I go into the presentation, I  
24 just do have a couple of reminders. First of all,  
25 the reason we are asking people to make the

1 questions or comments verbally is because we have a  
2 court reporter who is attending the meeting, and she  
3 is Christine Simons.

4 And I would ask everyone to please speak  
5 clearly, and state your name, first and last name,  
6 whenever you ask a question or make a comment for  
7 the court reporter to be able to transcribe that  
8 information accurately.

9 And the second reminder I would like to  
10 make is that since this is a virtual meeting, we  
11 cannot hand over copies of the PowerPoint  
12 presentation. So I just want to remind people that  
13 the copies of the presentation are available on  
14 the -- on either the Department of Commerce project  
15 website, which there's a link to it in the meeting  
16 notice that we sent out. And, also, if you go to  
17 the eDockets, the 21-140 or 21-141, there are copies  
18 of the presentation in eDockets, also.

19 So with that being said, I want to  
20 welcome everybody to the public information and  
21 environmental review scoping meeting. This is on  
22 Minnesota Power's application for a high-voltage  
23 transmission line. The name is Duluth Loop  
24 Reliability Project in Duluth, and the docket  
25 numbers are E015/CN-21-140 and TL-21-141.

1                   And just a remainder that tonight's  
2                   presentation is the same that we gave last night in  
3                   person in Duluth, Minnesota, when we hosted the  
4                   first of the two-series meetings. So the same  
5                   information was presented last night. We are giving  
6                   the same presentation, again, tonight virtually.

7                   So with that, I'd like to draw attention  
8                   to the purpose of tonight's meeting. So as you  
9                   can -- you could read in the notice, the meeting is  
10                  about giving information about this proposed  
11                  project, for people to learn about what the  
12                  Commission review process for this application --  
13                  actually, we have two applications that the  
14                  Commission is conducting the public review. And  
15                  those are the CN and TL. TL, the transmission line,  
16                  versus the certificate of need that I mentioned  
17                  earlier.

18                 So the agenda for tonight, I will go give  
19                 an overview of the Public Utilities Commission, the  
20                 review process. And then we'll turn it over to  
21                 Mr. Jim Atkinson with Minnesota Power to talk about  
22                 the specifics, characteristics of the project, and  
23                 construction timeline and any other information that  
24                 they have prepared.

25                 And we'll go next to Mr. Bill Storm. He

1 is an environmental review manager with the  
2 Minnesota Department of Commerce, and he will talk  
3 about the second purpose of tonight's meeting is to  
4 gather input on the environmental review that the  
5 Department of Commerce is conducting on this project  
6 on behalf of the Commission.

7 And, now, item four, the last but not the  
8 least, would be to open up for questions from the  
9 members of the public, questions and comments on the  
10 project and the process.

11 So with that, the role of the Commission,  
12 the Public Utilities Commission regulates  
13 investor-owned utilities in Minnesota, mainly power  
14 companies, gas companies, to make sure that  
15 customers are charged reasonable rates for power and  
16 gas. The Commission does regulate, also, landline  
17 telecommunications carriers in the state, Century  
18 Link and Frontier to name a few.

19 And another big part of what the  
20 Commission does regularly is to -- besides  
21 regulating the rates, is to issue permits on large  
22 energy facilities, such as this transmission line,  
23 when they need to be approved for construction.

24 And another part of the Commission's  
25 business is to also issue permits for routing of the

1       petroleum pipelines and natural gas pipelines in the  
2       state.

3               So the permitting -- the permitting of a  
4       project -- so in order for the Commission to make a  
5       decision on a project like this, the Commission  
6       conducts a public review process. And the  
7       combination of that is to find the question whether  
8       the project should be granted a certificate of need,  
9       and that is the justification for the project, on  
10      this high-voltage transmission line project.

11              And, then, concurrently with that, the  
12      Commission will also look at issuing a route permit  
13      where the transmission line should go in.

14              So the public process that I was  
15      mentioning means gathering information, developing  
16      the record of information, and then the  
17      Commission -- we, staff members, kind of analyze  
18      that information, and then summarize it and make  
19      some recommendations for the five Commissioners, who  
20      ultimately are the ones that issue a decision  
21      whether the permit application should be granted or  
22      not.

23              And that is done through a public  
24      hearing, which is conducted in St. Paul, Minnesota,  
25      at the Commission headquarters in Downtown St. Paul.



1                   And once a permit is issued, it carries  
2                   the weight of the law. Of course, there are options  
3                   for reconsideration of a permit decision, but that's  
4                   beyond tonight's scope. So people that feel that  
5                   the permit decision is reached in error or that  
6                   something is missing about the project, there's  
7                   ways, judicial review -- to ask for the  
8                   reconsideration first and then the judicial review  
9                   for a permit -- Commission permit decision.

10                  And, then, just a flow diagram to be able  
11                  to -- and I'm hoping people will be able to see my  
12                  cursor here moving on the screen. So we have like a  
13                  block diagram to the main phases of this project.  
14                  You can see when the application was filed back in  
15                  October last year.

16                  And then this green box, this is the  
17                  phase that we are currently in. We are conducting  
18                  this public information and environmental scoping  
19                  meeting, and then green signifies this is an  
20                  opportunity for the public to provide input and make  
21                  comments and ask questions.

22                  And then, also, there'll be a second  
23                  opportunity for the public to provide input on the  
24                  project. And that is later on in the summer during  
25                  the public hearing, which will be held sometime in

1 July in the project area in Duluth and, also, might  
2 there be a virtual also, dual meetings.

3 And then -- I'm sorry, but I won't read  
4 every one of these blocks. I'm hoping that most  
5 people are able to see the presentation.

6 So following tonight's meeting, briefly,  
7 there'll be a scoping -- environmental review  
8 scoping determination made by the Department, and  
9 Bill will talk about that. And then the process --  
10 the draft, the EA document itself, will be released  
11 sometime.

12 And after that, it will go to the public  
13 hearing, and then we'll get an Administrative Law  
14 Judge assigned on this case. And that judge will be  
15 able to preside over the public hearing, and then  
16 write the report with findings and recommendations  
17 on the project.

18 And the report will be submitted to the  
19 Commission via eFiling, and then the Commission  
20 takes into consideration the complete record. Not  
21 just the ALJ's report, but public comments, the  
22 stakeholder comments, namely local and state  
23 agencies. They comment on our project also. And  
24 the entire process will take about 12 months for the  
25 Commission to render a final decision.

1                   Moving on, so I talked about the two  
2                   permits that this project requires. I talked about  
3                   the certificate of need one. So on this slide you  
4                   can see some of the statutory and rule --  
5                   administrative rule requirements that the Commission  
6                   is looking -- when deciding a certificate of need  
7                   permit application should be granted or not.

8                   And the factors are captured in the  
9                   statutes and rules. Some of the factors the  
10                  Commission is looking for are the benefits of the  
11                  project, whether the project enhances environmental  
12                  quality, and increases the reliability of energy  
13                  supply in Minnesota and the region.

14                  The Commission is also required by law to  
15                  look at the possible alternatives to satisfy that  
16                  energy demand for the project, including but not  
17                  limited to, maybe other projects that offer  
18                  different efficiencies or operating an existing  
19                  facility. So these are some of the factors that the  
20                  Commission is looking at.

21                  And then moving on to the route permit  
22                  side, which is the second permit this project  
23                  requires before being allowed to start construction.  
24                  Again, we have Statute 216E governing the Power  
25                  Plant Siting Act for route and site permits, and

1 then the Administrative Rule 7850.

2 So, similarly, the Commission is looking  
3 at some factors when making the determination, and  
4 those factors are whether the project will  
5 contribute to conserving resources and minimizing  
6 the environmental impacts, minimizing human  
7 settlements, and trying to avoid land use conflicts.

8 And not the least, whether the project is  
9 an efficient project, will it be cost effective, and  
10 whether it contributes to the security of the power  
11 supply in the electric transmission infrastructure  
12 in the state.

13 In this table here, we are looking at the  
14 table of all the same major milestones, part of the  
15 application review process that were given on the  
16 previous two slides earlier. So major milestones  
17 included when the certificate of need and the HVTL  
18 route permit applications were filed, and that  
19 happened in October last year.

20 And then the Commission accepted the  
21 applications. Meaning, the information that the  
22 rules require an applicant to include as part of the  
23 application satisfied and met all the requirements.

24 And then we are going to the public  
25 information and environmental scoping meeting

1           tonight, which is January 27th.

2                       And then after that, there'll be a scope  
3           of EA determined sometime in March, April. Followed  
4           by the actual EA document being released sometime in  
5           June, and then the public hearing in the project  
6           area, I mentioned, July. And then the reports from  
7           the Administrative Law Judge will be released  
8           sometime in September.

9                       And then the Commission will meet one  
10          more time in an open meeting, a public-hearing-type  
11          meeting, to make a determination and decide on each  
12          one of these individual permit applications.

13                      So with that, this is just an example.  
14          If people that want to find out more information  
15          about the project, they can go either to the  
16          Department -- I mean, the Minnesota Department of  
17          Commerce. They create a project-specific website  
18          for each one of these applications, and that's what  
19          the left half of the screen shows.

20                      If you go to that link, which is given in  
21          the notice of the meeting, there's a hyperlink in  
22          there. You click on that, or you type it in. This  
23          is where you -- the landing page, and they have  
24          information here about main documents associated  
25          with the project.

1                   Or if you prefer to take a look at all  
2                   the documents that have been filed on this docket  
3                   ever since the project started, you can use our  
4                   eDocket system -- which is the electronic filing  
5                   system of the Minnesota Public Utilities  
6                   Commission -- and by plugging in the numbers 21-140.  
7                   And this is just like a snapshot of what you see,  
8                   the first page of the -- when accessing that  
9                   website.

10                  With that, I think my role is done for  
11                  now. Thank you for participating, and I'm going to  
12                  turn it over to Mr. Jim Atkinson from Minnesota  
13                  Power to talk about the project.

14                  Jim.

15                  MR. JIM ATKINSON: Thank you, Cezar.  
16                  Yeah, you can probably go to the next slide.

17                  So my name is Jim Atkinson. I work for  
18                  Minnesota Power. I'm its environmental and real  
19                  estate manager, and my job has two parts. The first  
20                  one is to site and permit new energy facilities, new  
21                  infrastructure projects like the Duluth Loop  
22                  Reliability Project.

23                  And then I also provide some strategic  
24                  oversight of our real estate services department,  
25                  and they are the ones that actually acquire land

1 rights necessary to build facilities like this. So  
2 I'm involved in both parts of that.

3 The Duluth Loop Reliability Project is  
4 just what it sounds like. It's all about enhancing  
5 reliability. And the need stems from a transition  
6 that Minnesota Power has been making over the last  
7 several years away from coal-fired generation  
8 sources to more renewable energy. And what we've  
9 done is we've taken out of service several baseload  
10 coal-fired plants, mainly along the North Shore of  
11 Lake Superior.

12 And as a result, we're seeing some of the  
13 things that those baseload generators did provide  
14 for the local transmission network, and we have some  
15 voltage stability concerns and some line --  
16 transmission line overloading that needs to be  
17 corrected. And we're -- what this project proposes  
18 to do is solve that by adding redundant connections  
19 and new connections to the transmission network.

20 Next slide, please.

21 There's a few different parts to it. The  
22 main one, I would say, is 14 miles of new 115 kV  
23 transmission line, and that would connect several  
24 substations in Duluth and also right on the edge of  
25 Hermantown and Duluth. And 14 miles of that would

1 all follow existing transmission lines. So the  
2 routing is pretty straightforward in this project.  
3 We're collocating virtually the entire length of the  
4 project.

5 And, also, the line that we're -- the  
6 lines, I should say, the circuits that we're  
7 collocating with are all subject to being rebuilt at  
8 the same time or substantially enhanced. So it  
9 really -- when it comes down to it, at the end of  
10 the day, we're probably talking about 28 miles of  
11 new 115 kV transmission line, but on a 14-mile  
12 route.

13 There's also higher voltage components to  
14 this project, which is a 230 kV transmission line  
15 into the Arrowhead substation. And what that will  
16 do is connect an existing 230 kV line and break it  
17 into two separate circuits, and what that does is  
18 greatly reduce the amount of miles that are exposed  
19 to potential events that could cause an outage. And  
20 by doing that, it enhances the bulk transmission in  
21 the Duluth area.

22 There's going to be some upgrades to a  
23 few of our substations that will happen along with  
24 this project. And then, also, as I previously  
25 mentioned, the reconfiguration and the rebuild and



1 upgrades of the existing transmission lines that  
2 we're following.

3 My dogs are barking. I apologize in  
4 advance if that happens, I'll mute briefly and I'll  
5 get back on. Sorry.

6 So as I mentioned, also, previously that  
7 a significant portion, really all of it, with the  
8 exception of the 230 kV route -- or part of that is  
9 being collocated with existing transmission line,  
10 though part of it is being rerouted as well. So  
11 that kind of diminishes the overall percentage below  
12 100, but there's going to be two lines on the 115 kV  
13 for virtually the entire length.

14 Next slide, Cezar.

15 And you can see the -- everything on the  
16 Duluth Loop Project is on this map, but the majority  
17 of what you're looking at is the 115 kV build. And  
18 that starts or stops, however you want to look at  
19 it, at the Ridgeview substation at the north. And  
20 that's one of Duluth's northern-most neighborhoods  
21 of Kenwood where that's located.

22 And it makes it way through, essentially,  
23 the big box retail section of Duluth and Hermantown.  
24 And then it gets into Hermantown for probably,  
25 roughly, half of the length, and then back into

1 Duluth on the south end. And it ends at our Hilltop  
2 substation, which is just east of the Proctor city  
3 limits by a half to three-quarters of a mile.

4 To the west of the 115 kV route, you can  
5 see a very short section there. That's less -- just  
6 under a mile of 230 kV build to connect from the  
7 Arrowhead substation up to the existing 230 kV line  
8 I already mentioned. So that's the project.

9 Next slide. Next slide.

10 Yeah. I'm not going to describe all the  
11 twists and turns of the route, but like I mentioned  
12 before, it's almost entirely collocated with  
13 existing circuits and connects several substations.

14 Next slide.

15 You can see a better view of the 230 kV  
16 build. The tan-yellowish area represents the  
17 Arrowhead substation. That's a pretty large  
18 facility of ours that has several yards, different  
19 voltages, and even a DC line converter.

20 But, anyway, that's where we'll connect  
21 the 230 kV yard. We'll build a, roughly, one-mile  
22 230 kV build and split the existing line into two  
23 separate circuits. Most of that is on Minnesota  
24 Power fee-owned land, but there'll be just a short  
25 piece that we'll have to get the right-of-way for

1           it.

2                       Next slide.

3                       The route width -- well, I should start  
4           with what a route is, but the route is the area  
5           within which we're asking to be able to site. So  
6           the circuits that we're proposing and the width of  
7           that kind of depends on how certain we are that  
8           we're able to accomplish what we want to do within  
9           what we can see as an intended center line.

10                      So if it's more uncertain, you might see  
11           a wider route in some sections because of different  
12           factors that could confound our plans and cause us  
13           to look for new alignments. And -- but, basically,  
14           it varies anywhere from about 500-feet wide to up to  
15           1,800 feet at the widest point. But that doesn't  
16           mean that we're going to build something that wide.  
17           It just gives us some flexibility in the final  
18           siting.

19                      Next slide.

20                      Right-of-way is what we'll actually need  
21           for construction. And that's where we will actually  
22           need to buy an easement from individual landowners,  
23           and in some cases agencies, to provide for the -- us  
24           the rights that we need in order to actually go in,  
25           construct, build, operate, and maintain the new

1 facility.

2 On a 115 kV line by itself, we need about  
3 100 feet of right-of-way. If you put two of them  
4 next to each other, we could fit two on 160 feet, so  
5 there's some right-of-way savings there as well.

6 On a 230 kV transmission line, we need a  
7 little bit more. We need 130-foot-wide  
8 right-of-way, and -- but that only applies to,  
9 basically, one mile or less of this project.

10 Next slide.

11 You can see the two most common types of  
12 structures we anticipate using on this project, and  
13 the one on the left is our wood H-frame,  
14 direct-embedded structures. And you see those all  
15 over the state and quite a bit around Duluth and  
16 Hermantown already.

17 And most of our existing circuits that  
18 we're following look just like that. They can span  
19 anywhere from 500 to 1,000 feet. So they can be set  
20 pretty far apart, depending upon the terrain and  
21 other factors.

22 Like I mentioned, they're directly  
23 embedded into the soil, so they're pretty  
24 straightforward construction. And usually we're  
25 using those on the 115 kV, which means that we're

1           talking about 100-foot-wide right-of-way.

2                       The structure on the right is a  
3           monolithic steel structure, and that can be used on  
4           all types of circuits of different voltages. But  
5           it's typically used where there's more congestion,  
6           less space, more other-infrastructure that we're  
7           trying to work around, that sort of thing.

8                       And it's built on concrete pier  
9           foundations. So it's a much more expensive thing to  
10          build, but it's also far more robust. And it gives  
11          you that opportunity to save space and have a higher  
12          degree of reliability.

13                      Next slide.

14                      So once we are done permitting, we have a  
15          route permit and a certificate of need, we're going  
16          to go after land rights. So we'll have to meet with  
17          every landowner that we have to -- that we're  
18          proposing to impact and secure rights from those  
19          individuals to provide us the corridor that we need  
20          to build on.

21                      And then that line construction will  
22          happen in a couple of phases. The first thing we've  
23          got to do is clear the right-of-way, and then we  
24          have to stake it. The center line structure  
25          locations, guy wire locations, all that sort of

1        thing has to be laid out after final engineering  
2        determines where they will be. And then the  
3        second -- after that, then it involves going in and  
4        assembling and setting structures.

5                Once we're done with that, the final  
6        phase is stringing of conductor and associated  
7        communications cable that goes on the top, also the  
8        shield wires.

9                Next slide.

10              And that's all I have. Again, here's my  
11        contact information. Anyone can reach me anytime  
12        they want. I could even provide my cell phone,  
13        which is 218-343-9119. You can reach me on that  
14        just, virtually, anytime. So please give me a call  
15        if you have any further questions.

16              Thank you very much. I'll hand it over  
17        to Bill Storm now.

18              MR. BILL STORM: Good evening. My name  
19        is Bill Storm, and I work for the Department of  
20        Commerce. And the group inside the Department of  
21        Commerce is the Energy Environmental Review and  
22        Analysis, referred to as EERA or EERA (different  
23        pronunciation).

24              And our role in this process is we, the  
25        Department, determines the scope of the

1 environmental document we need to prepare, and we  
2 also prepare the document. And that's basically our  
3 role.

4 Okay. Cezar, next.

5 As Cezar mentioned, this project requires  
6 two approvals from the Commission, one for the  
7 certificate of need and one for the route permit.  
8 Both of them individually require an environmental  
9 review in a document. An ER, or an environmental  
10 report, for the CN portion, and an EA, environmental  
11 assessment, for the route portion.

12 Next.

13 Okay. The Department will prepare the  
14 environmental assessment. We will prepare one  
15 document, but the document will cover the  
16 responsibilities under the certificate of need rules  
17 and under the transmission line route permit rules.  
18 So it will be one document that will incorporate  
19 both the ER and the EA.

20 Next, Cezar.

21 Okay. The goal of the environmental  
22 review, what an environmental review is all about,  
23 is it's to gather information so the decisionmakers,  
24 the Commission, the Public Utilities Commission, can  
25 have that information to use when they make their

1 determination.

2 There's two components to environmental  
3 review, scoping -- and scoping is what we're doing  
4 tonight and throughout the comment period, and it  
5 goes until February 4th.

6 And then there's the actual document, and  
7 it's to provide an objective assembly of the facts.  
8 The document does not have -- advocate for or  
9 against the project. It's basically just to lay out  
10 the facts as we understand them from the potential  
11 impacts to the environment and to the built  
12 environment.

13 Next, Cezar.

14 Again, we're at scoping. That's what  
15 we're doing tonight. Scoping involves gathering  
16 information from agencies, from stakeholders, and  
17 from the citizens to get a better understanding of  
18 what are their concerns, what do they want me to  
19 study in the documents. So it's basically an  
20 opportunity to gather information.

21 Okay, Cezar.

22 You can't see it because we're not  
23 physically available, but for each of my projects, I  
24 always put out what's called a draft scoping  
25 document, and it's sort of a draft of what I think



1 the scope will look like. You can view it as a  
2 table of contents, and it's sort of generic in  
3 nature. And it is available both on eDockets and on  
4 the Commerce website that Cezar referred to.

5 As I said, scoping, we're looking for two  
6 things. One of the things is, what issues or  
7 concerns do the public or the stakeholders or the  
8 agencies want to make sure I incorporate into my  
9 document.

10 So I look at that -- I look at this  
11 document sort of like a bare Christmas tree, and I'm  
12 asking the public and the stakeholders, what  
13 ornaments do you want me to hang on the tree? An  
14 example is, you know, on a previous docket, somebody  
15 knew there was a rare buttercup species that was  
16 along the proposed line, and they wanted to make  
17 sure that I accounted for that in the document. And  
18 that just shows you, like, what the ornaments you  
19 can hang on the tree.

20 Next, Cezar.

21 The rules also allow, not only for me to  
22 gather issues and concerns that the public wants,  
23 but also alternatives. You may have an issue, a  
24 specific feature, site feature that you think the  
25 only way to mitigate the potential impacts of

1 putting a transmission line through is to avoid it.  
2 And you avoid that by either proposing that I study  
3 an alternative route or alternative route segment or  
4 changes to the proposed alignment.

5 So we -- during this scoping process, I  
6 ask the public, if you have a concern, a  
7 site-specific concern, and you think the only way to  
8 address it is to avoid it, you can propose  
9 alternative routes, alternative route segments, or  
10 changes to the proposed alignment.

11 I do have certain rules that you have to  
12 do. You have to submit your concept during the  
13 comment period, which ends February 4th. You have  
14 to be mitigating a specific impact. It can't be,  
15 you know, I just don't want it in my yard. It has  
16 to be, I have an ancient grove of cedars, or I have  
17 something unique about my property. It doesn't have  
18 to be on your property, it could be somewhere else.  
19 A feature that you think is going to be impacted and  
20 you think the only way to mitigate that impact is to  
21 avoid it and avoid it by going around it.

22 You have to be specific in nature. This  
23 is kind of a hard bar. You have to tell me, okay,  
24 what is the alternative you're talking about. And a  
25 lot of times if people have an issue that's on the

1 ground, a feature that they want to avoid, they'll  
2 call me and we'll talk about it. And I'll help them  
3 come up with an alternative segment that we can  
4 study, and then the Commission can weigh whether  
5 they think it's worth permitting that alternative  
6 rather than what the applicant wants.

7 And the last one is, it has to meet the  
8 need of the applicant. You can't give me an  
9 alternative that doesn't meet their need because I'm  
10 just not going to study that.

11 Next, Cezar.

12 And as I showed you with the draft  
13 scoping document, as I showed you with issues and  
14 concerns, this is also to show you that -- your  
15 alternatives. And an example is, again, it's the  
16 bare Christmas tree, what generic line items or  
17 branches on that tree are alternatives to be  
18 studied.

19 And the example given there is the Cotton  
20 River alignment alternative. And that was another  
21 alignment where the proposed route was crossing the  
22 Cotton River, and the DNR didn't like how it was  
23 crossing the river. The way the river meanders, it  
24 was crossing it multiple times. And they wanted me  
25 to study an alternative segment, a short segment, a

1 couple miles that went around, but only crossed the  
2 river once, and that's an example.

3 Next slide.

4 Okay. I'm just going to run through a  
5 couple examples for you. This is a different  
6 docket, different project. The applicant proposed a  
7 route, and I think it was on 135 up near Tower,  
8 where they wanted to run the transmission line  
9 along -- it's the purple route on that diagram  
10 there. I know it's small, but they wanted to run  
11 the route between the road and the homes.

12 And the citizens there -- a group of  
13 citizens there knew that the land behind them to the  
14 east of them was all tax-forfeited land and was  
15 public land. And they came to me and they said,  
16 well, we think the transmission line is a  
17 public-purpose item, infrastructure, why don't we  
18 put it on public land? Bill, would you study this  
19 orange route that puts it east? And I agreed. I  
20 thought that made sense. We studied it, and in  
21 fact, at the final decision, the Commission did  
22 approve that orange route. So they changed it of  
23 what the applicant was looking for.

24 Next slide, Cezar.

25 Okay. This is that Cotton River one I

1 was talking about here where the proposed route was  
2 going to cross the Cotton River at a spot that the  
3 DNR didn't like, thought it was too many crossings  
4 for the meandering of the river. So they asked me  
5 to study this little, short alternative that only  
6 crossed the river once.

7 In this case, I did study it. It did  
8 make it in the scope. But in this case, the final  
9 decision, there were two routes on the table, the  
10 red and the blue route, and the Commission picked  
11 the blue route. So the issue ended up being moot,  
12 but it did make it into my scope and it did make it  
13 into my environmental document.

14 Next one, Cezar.

15 Again, this is where the concern was a  
16 historic property. This is, I think, down in the  
17 Shakopee area. The purple line that you see that's  
18 on the north side of this diagram, that was the  
19 proposed route, and it went right in front of a  
20 historical building.

21 And some of the citizens were concerned  
22 that it would take away from the nature of that  
23 building. So they asked, Bill, could we look at two  
24 alternative route segments? One pushing it across  
25 the street, and then another one running it a little

1 further south and up a railroad right-of-way. That  
2 made sense. Historic buildings are something we  
3 like to try to keep the integrity of, and it did  
4 make it into scope.

5 I did study it, but when it was laid out  
6 in front of the Commission at the final decision,  
7 they didn't think the impact -- the potential impact  
8 was raised high enough to depart. So they did  
9 approve the purple route that the applicant was  
10 requesting.

11 But those are three examples to give you  
12 an idea of what we're talking about when we're  
13 talking about alternative routes and route segments.

14 Next slide.

15 Okay. As I said, the Department of  
16 Commerce will prepare the document for this project.  
17 The document will describe the project purpose and  
18 any alternatives. Any alternatives that make it  
19 into the scope, it will assess the potential human  
20 and environmental impacts. It identifies ways to  
21 mitigate potential impacts. So we usually look at  
22 the impacts and how to deal with them in a manner  
23 of, how can we minimize the impact, how can we  
24 mitigate the impact, and can we avoid the impacts?

25 So that's sort of what the environmental

1 document will do, and like I said, it doesn't  
2 advocate. It just lays out the facts.

3 Okay. Cezar, next.

4 Okay. And as I said, part of what we're  
5 here to do tonight and during the comment period is  
6 scoping. I'm trying to get the public stakeholders,  
7 downstream agencies to give me the information that  
8 I can recommend be in the scope.

9 And the scope is basically a table of  
10 contents, the scope, so I can put that to my  
11 Commissioner. It's the Commissioner of the  
12 Department of Commerce that makes the scoping  
13 decision. They'll look at it. They'll either agree  
14 or disagree or make some changes, but eventually the  
15 scope will be released, and that scope dictates what  
16 I'll study.

17 So what I'm asking the people tonight is  
18 to give me your comments. If you have local  
19 knowledge of something you want to make sure I  
20 account for in the document, this is your  
21 opportunity to give those to me.

22 And you can mail, fax, e-mail. You can  
23 go to our website. There's a comment little button  
24 on our website, so you can put a comment in  
25 electronically. The comment period ends February 4th,

1           so your comments got to be in by then.

2                       Next, Cezar.

3                       Well, this sort of pertains to when I was  
4           doing these things in person, but I guess a little  
5           bit of it pertains to now. Just be polite and some  
6           of the things that we learned in kindergarten, how  
7           to treat each and how to speak. You know, when  
8           you're making a comment, try to follow those  
9           guidelines.

10                      Keep your comments, you know, brief,  
11           maybe five minutes. If we can get through  
12           commenters and you want to come back and comment  
13           again, you can follow the instructions that Paula  
14           gave you and comment again.

15                      Next slide, Cezar.

16                      Just a reminder, focus your comments.  
17           I'm looking for comments on what issues you want me  
18           to study, what local features you want to make sure  
19           I account for, any alternatives you want me to look  
20           at, and those are the comments that I'm looking to  
21           get.

22                      Again, I know I'm hammering you on this,  
23           but, again, February 4th, that's the -- the comment  
24           period ends on that date.

25                      Next, Cezar.



1           There's one new -- if you go to our  
2           website, in addition to being able to make a  
3           comment, there's a comment button there, but we're  
4           also trying this. It's like a Metrocrest survey.  
5           You'll see a little scoping survey button. And you  
6           can click on that link, and it will take you to this  
7           page. And it's basically a way for you to input  
8           some information about the project, and then it  
9           puts -- it comes to me directly. So it's just a new  
10          feature we're trying, so you'll see that when you go  
11          to our web page.

12                 Next, Cezar.

13                 Okay. This is the final slide just to  
14          leave up so you know what the contact information  
15          is. You know, sort of what I'm asking you to  
16          comment on, all the contact information.

17                 And with that, I'm done, Cezar, and you  
18          and Paula can turn it over to comments and questions  
19          to the public.

20                 MS. PAULA HOENA: Thanks, Bill.

21                 Again, if you would like to make a  
22          comment and you are connected to the Webex via audio  
23          and video, you can go ahead and chat me with your  
24          name and that you'd like to comment, and I'll put  
25          you in the queue.

1           If you are our lone call-in person and  
2           you'd like to comment, please press star 3 on your  
3           phone to raise your hand, and I can go ahead and  
4           unmute you.

5           So feel free to, you know, chat me or  
6           raise your hand, and we'll get you in the queue to  
7           comment.

8           The information that Bill mentioned is  
9           also found on our public-facing calendar on the  
10          Public Utilities Commission website, including the  
11          slide deck and the comment link -- or the survey  
12          link, I should say. And so that information is  
13          accessible through our calendar on our website as  
14          well.

15          So go ahead and feel free to chat me and  
16          I'll put you in the queue, and we'll get our  
17          comments collected this evening.

18          Sorry. I got muted somehow. Okay. I  
19          was speaking and nobody could hear me. Dan Belden,  
20          you had your hand up, would you like to comment?  
21          I've unmuted you if you'd like to speak.

22                 MR. DAN BELDEN: Sure. Can you hear me?

23                 MS. PAULA HOENA: Yes, I can. Thank you.

24                 MR. DAN BELDEN: Thank you. Yeah. I got  
25          into the meeting just a little late. I work for the

1 Western Lakes Superior Sanitary District in Duluth.  
2 It's a wastewater treatment facility, and I was  
3 asked to just kind of tune into the meeting.

4 I know we have a large interceptor -- a  
5 wastewater interceptor that runs -- would cross your  
6 route that you are proposing. And I know that one  
7 of our engineers in our office indicated that she  
8 may have already submitted comments or been  
9 contacted by someone in the recent past regarding  
10 this project, and I don't know if anybody listening  
11 would be aware of that.

12 But I guess, you know, we have looked at  
13 the -- I looked at the route as it is proposed on  
14 the maps in the public notice that went through, and  
15 it looks like you would be crossing overhead. We're  
16 located, again, right along Highway 53 in the Haines  
17 Road location where you guys would be crossing.

18 And I guess, really, our biggest interest  
19 is -- would be if there's going to be poles that  
20 would be installed anywhere near our inceptor, of  
21 course. And so I guess that would be my only  
22 question or comment.

23 MS. PAULA HOENA: I think you're muted,  
24 Cezar. Hold on. There you go.

25 MR. CEZAR PANAIT: I was just trying to

1 invite Jim Atkinson to see if he wants to comment.

2 MR. JIM ATKINSON: Sure. This is Jim.

3 Can you hear me okay?

4 MS. PAULA HOENA: Yes, we can.

5 MR. DAN BELDEN: Yeah.

6 MS. PAULA HOENA: Thanks, Jim.

7 MR. JIM ATKINSON: Thanks for the  
8 question, Dan. And, yes, we are aware of your  
9 project on the -- right along the corridor there,  
10 and we have actually had at least one Webex meeting  
11 with -- I can't think of the name right off the  
12 top --

13 MR. DAN BELDEN: Possibly Diane Matthews.

14 MR. JIM ATKINSON: That's probably right.

15 MR. DAN BELDEN: Yeah.

16 MR. JIM ATKINSON: Yeah, I think that is.

17 MR. DAN BELDEN: Yeah.

18 MR. JIM ATKINSON: And provided us some  
19 data.

20 MR. DAN BELDEN: Okay.

21 MR. JIM ATKINSON: So we're working  
22 diligently to make sure that our engineered design  
23 of the structure locations avoids your project.

24 MR. DAN BELDEN: That sounds awesome.

25 Thank you very much.

1 MR. JIM ATKINSON: You're welcome. Thank  
2 you.

3 MS. PAULA HOENA: All right. Thanks so  
4 much, Dan.

5 Next, we have Allen Widell, or I  
6 apologize if I'm not saying your name correctly.  
7 Allen, go ahead and comment. You are unmuted.

8 Are you there, Allen? You had made a  
9 comment in the chat, and we're not able to take any  
10 sort of comments via the chat. They all do need to  
11 be spoken. Otherwise, you are free to comment  
12 online per Bill Storm's instruction.

13 So I'll leave you unmuted for a couple  
14 more minutes here and feel free to speak.

15 MR. CEZAR PANAIT: If Allen is not able  
16 to speak, can you go ahead and read the question  
17 publicly so we can hear it and the court reporter?

18 MS. PAULA HOENA: Yeah. He just chatted:  
19 Hello. Appendix J-3, page 18 of 23. I'm not sure  
20 what he's referring to as I'm not familiar with the  
21 document that he's referring to, but maybe one of  
22 you can take that.

23 Oh, he says, I'm so sorry. I don't have  
24 a mic, is what he is saying.

25 So, Allen, can you let me know a little

1 bit more about what your question is?

2 Well --

3 MR. JIM ATKINSON: I'm guessing that's  
4 probably the part of the map book that shows the  
5 route affecting his property, would be my guess.

6 MS. PAULA HOENA: He has chatted:  
7 Wondering if that is part of the double-circuit  
8 line? Wondering if that is part of the  
9 double-circuit line?

10 MR. JIM ATKINSON: Yeah, it could -- hold  
11 on a second. I might have some information here.

12 MS. PAULA HOENA: Okay. Thanks so much.

13 MR. JIM ATKINSON: Okay. So here I am  
14 looking at the map I just got from our awesome  
15 consultant who is also listening in and found his  
16 name on the route map. So anyway, yes. The answer  
17 is yes, that is the double circuit with the existing  
18 71 line.

19 MS. PAULA HOENA: All right. I'll wait  
20 to see -- he did say thank you to me. I'll see if  
21 he has anything else to say.

22 Is there anybody else who would like to  
23 comment? We don't have anybody else in the queue  
24 currently. Feel free to raise your hand.

25 Oh, our call-in user would like to make a

1 comment. So call-in user 218-3891, I will unmute  
2 you now. Go ahead, you are unmuted. You can make  
3 your comment.

4 MR. JOHN BODELL: Okay. Thank you. This  
5 is more of a question than a comment, I guess, but  
6 it would be for Jim. I currently have a Minnesota  
7 Power easement through my property, and I believe  
8 it's on that same line that he was talking about.  
9 It's colored magenta, so that's the double -- the  
10 double-line transmission line, is that correct, on  
11 your map?

12 MR. JIM ATKINSON: I think so. Is it in  
13 the vicinity of Mogie Lake?

14 MR. JOHN BODELL: I'm past that. I'm  
15 actually where the line runs to the west and it cuts  
16 north right on that corner section.

17 MR. JIM ATKINSON: Oh, sure. Well,  
18 there's another intersection just north of that  
19 where the double circuit would end and the 71 line  
20 goes to the west.

21 MR. JOHN BODELL: Yes, correct. I'm  
22 right where the double-circuit line cuts north.

23 MR. JIM ATKINSON: Oh, okay.

24 MR. JOHN BODELL: I guess my question is,  
25 are they planning on using the existing poles there

1           for the new -- or are they doing something else?

2                   MR. JIM ATKINSON: It will be something  
3 different. If you're on the double-circuit section,  
4 it's going to be all new structures, and even where  
5 we're continuing north after that. And it's going  
6 to be separate circuits on parallel -- you know,  
7 parallel to each other. It will be the new build,  
8 and then the old -- the preexisting circuit will be,  
9 more or less, rebuilt as well. So --

10                  MR. JOHN BODELL: I mean -- okay. Go  
11 ahead, I'm sorry.

12                  MR. JIM ATKINSON: Sure. I was just  
13 saying, by the time we're done, it's going to be two  
14 new lines. But where you are, it's going to be two  
15 new circuits on one new set of structures it sounds  
16 like.

17                  MR. JOHN BODELL: Okay. So will that  
18 require a wider easement than is currently there?  
19 And I believe it's 100-foot easement, at least, if  
20 you know.

21                  MR. JIM ATKINSON: Yeah. I believe that  
22 we're good on right-of-way width there.

23                  MR. JOHN BODELL: Okay.

24                  MR. JIM ATKINSON: You know, there's  
25 still information we're gathering --



1 MR. JOHN BODELL: Yeah.

2 MR. JIM ATKINSON: -- and engineering to  
3 do, but we believe we have sufficient width there.

4 MR. JOHN BODELL: Okay. Excellent. I  
5 appreciate the information.

6 THE REPORTER: And before the caller  
7 hangs up --

8 MS. PAULA HOENA: Could you identify  
9 yourself and spell your name, please, for the court  
10 reporter?

11 MR. JOHN BODELL: Yeah. It's John,  
12 J-O-H-N, B-O-D-E-L-L, Bodell.

13 MS. PAULA HOENA: All right. Thank you  
14 so much. Appreciate it.

15 MR. JOHN BODELL: Yup, thank you.

16 MS. PAULA HOENA: All right.

17 Next, we have Fred Schmitz. Fred, when I  
18 unmute you, could you please spell your name for the  
19 court reporter. Go ahead and make your comment or  
20 question now. Thank you so much.

21 MR. FRED SCHMITZ: Yes. My name last is  
22 S-C-H-M-I-T-Z.

23 And I'm just inquiring on the property on  
24 the Swan Lake Road for the Duluth Bible Church. Is  
25 that running parallel to the road on Swan Lake Road

1           then? Is it -- I mean, there's been talk about  
2           possibly building on that site, and I'm just  
3           wondering how that would affect that.

4                       MR. JIM ATKINSON: Yeah. I'm not sure I  
5           have the location figured out here. I'm looking for  
6           it right now.

7                       MR. FRED SCHMITZ: I know there's a  
8           substation there.

9                       MR. JIM ATKINSON: Yeah, the Swan Lake  
10          sub?

11                      MR. FRED SCHMITZ: Yeah.

12                      MR. JIM ATKINSON: The line's going  
13          straight south from there, the proposed route, and  
14          would cross -- you know, it goes straight south and  
15          would cross Arrowhead Road.

16                      MR. FRED SCHMITZ: Okay. Okay.

17                      MR. JIM ATKINSON: Is that the vicinity  
18          you're talking about then?

19                      MR. FRED SCHMITZ: I'm just trying to --  
20          you know, I'm not real familiar with the site up  
21          there, that's the problem.

22                      MR. JIM ATKINSON: That's okay.

23                      MR. FRED SCHMITZ: Sorry.

24                      MR. JIM ATKINSON: From the Swan Lake  
25          substation, I'm just getting a little closer to

1 things here.

2 MR. FRED SCHMITZ: I think it's right  
3 on -- that's right on the back side of Costco's  
4 property, somewhere in there.

5 MR. JIM ATKINSON: Sure, yeah. It's in  
6 that vicinity. It would be northeast of Costco, the  
7 Swan Lake substation, and the proposed route goes  
8 straight south from there. It crosses Arrowhead  
9 Road --

10 MR. FRED SCHMITZ: Okay.

11 MR. JIM ATKINSON: -- and then  
12 southwesterly over to Miller Trunk, or Highway 53.

13 MR. FRED SCHMITZ: So if I'm thinking  
14 right, it's running parallel to that property line  
15 then?

16 MR. JIM ATKINSON: Yeah. I'm trying to  
17 find where the church is. Is this church property  
18 out front on Arrowhead Road?

19 MR. FRED SCHMITZ: No, it's on Swan Lake  
20 Road. It doesn't go that far to Arrowhead.

21 MR. GAGE RITCHIE: Hey, this is  
22 Gage Richie from Minnesota Power. I'm with real  
23 estate services. I've got my GIS pulled up, and I  
24 can try to help out here real quick.

25 MR. JIM ATKINSON: That would be great,

1 Gage.

2 MR. GAGE RITCHIE: Did you say Duluth  
3 Bible Church?

4 MR. FRED SCHMITZ: Yes.

5 MR. GAGE RITCHIE: Which is located right  
6 behind Costco?

7 MR. FRED SCHMITZ: Yes.

8 MR. GAGE RITCHIE: And it butts up  
9 against Swan Lake Road, so that is just west of our  
10 Swan Lake sub, and there does not appear to be any  
11 proposed work on that parcel. It looks like it's  
12 about a 12-and-a-half acre parcel.

13 MR. FRED SCHMITZ: Yes.

14 MR. JIM ATKINSON: Yeah, that's -- yeah.  
15 Thank you very much, Gage. So now I know where it  
16 is. Yeah, we won't be -- our proposed route does  
17 not affect that.

18 MR. FRED SCHMITZ: Okay. All right.  
19 Thank you very much.

20 MR. JIM ATKINSON: Thank you.

21 MS. PAULA HOENA: All right. Is there  
22 anybody else that would like to comment? I do see  
23 that we have a new call-in user. If you are a  
24 call-in user and you would like to make a comment,  
25 star 3 to raise your hand. And then we can unmute

1           you and get your comment or your question in.

2                   All right. Oh. Who is echoing? All  
3           right. I think we have a feedback loop.

4                   So call-in user 218-390, go ahead and  
5           state your name and spell it for us, please, for the  
6           court reporter, and then you can do your comment or  
7           question.

8                   MR. ALLEN WIDELL: Hi, this is Allen  
9           Widell. I actually sent you a chat message here and  
10          I didn't have a mic, so I called in.

11                  MS. PAUL HOENA: Okay.

12                  MR. ALLEN WIDELL: My last name is  
13          W-I-D-E-L-L.

14                  And my question is for Jim. I know we  
15          talked about the Appendix J --

16                  MS. PAULA HOENA: Are you there, Allen?

17                  MR. ALLEN WIDELL: I am.

18                  MS. PAULA HOENA: We can't hear you  
19          anymore. Can you hear us?

20                  MR. ALLEN WIDELL: Hello?

21                  MS. PAULA HOENA: Are you there?

22                  MR. ALLEN WIDELL: Hello? I am here.

23                  MS. PAULA HOENA: Okay. Something weird  
24          happened there.

25                  MR. ALLEN WIDELL: Yeah, I think I got

1 muted. Anyways --

2 MS. PAULA HOENA: All right. Let's try  
3 again.

4 MR. ALLEN WIDELL: I'm sorry. My  
5 question is for Jim. When I talk about that double  
6 circuit, I'm assuming that is, you know, the  
7 route -- the part of the route that I live on. From  
8 what I understand from the documents I was looking  
9 at, that will be -- it's a double H-pole right now.  
10 Is there going to be two of those, or is it going to  
11 be replaced with a monopole structure?

12 MS. PAULA HOENA: You were muted somehow,  
13 Jim. Can you speak again, please?

14 MR. JIM ATKINSON: I was going to say,  
15 the double circuit would be a steel monolithic  
16 structure.

17 MR. ALLEN WIDELL: Okay. That's just  
18 what I wanted to confirm. That's what I thought,  
19 but I wanted to be sure.

20 UNIDENTIFIED: That's the big steel  
21 poles.

22 MR. ALLEN WIDELL: I'm sorry?

23 MS. PAULA HOENA: Oh, I think we just  
24 have a couple people with their mics unmuted.

25 MR. ALLEN WIDELL: Okay.

1 MS. PAULA HOENA: Is that your question,  
2 Allen?

3 MR. ALLEN WIDELL: Yeah, my question --  
4 right now it's an H-pole, and I just wanted to check  
5 if it's going to be a double H-pole, where two are  
6 side-by-side, or replaced with the steel pole, but  
7 it sounds like the steel pole is what the plan is.

8 MS. PAULA HOENA: All right. Thanks so  
9 much.

10 MR. ALLEN WIDELL: All right. Thank you.

11 MS. PAULA HOENA: You're welcome.

12 All right. Anybody else who would like  
13 to make a comment, if you're on the Webex, go ahead  
14 and raise your hand or chat me. Otherwise, we don't  
15 have anybody in the queue right now.

16 MR. CEZAR PANAIT: If we don't have  
17 anymore questions, does anybody need to make any  
18 closing from Minnesota, or Bill from the Department?

19 MR. JIM ATKINSON: If there's no other  
20 questions, I guess I would just reiterate that if  
21 anyone has -- thinks of anything in the future, if  
22 they want to talk about the route or right-of-way  
23 acquisition or anything like that, they can reach me  
24 at 218-343-9119.

25 MR. BILL STORM: And, Cezar, I would also

1 add for me, if anybody wants to make a comment or  
2 needs help in developing a comment or wants to talk  
3 about alternatives or any of the issues, my contact  
4 information is there. You can contact me by phone  
5 anytime. And just a reminder that the formal  
6 comment period closes on February 4th.

7 MS. PAULA HOENA: All right. I don't see  
8 any other commenters at this point. So it's up to  
9 you, Cezar, whether you want to call it a day or  
10 not.

11 MR. CEZAR PANAIT: Yes. Thank you for --  
12 everyone for participating tonight and for the  
13 useful questions and comments you presented. So  
14 with no further questions in the queue, I think we  
15 can conclude this meeting. Thank you, again,  
16 everybody for participating, and have a great  
17 evening.

18 MS. PAULA HOENA: All right. Thanks  
19 everybody. Have a great evening.

20 MR. BILL STORM: Thanks, everybody.

21 (Matter concluded at 7:04 p.m.)  
22  
23  
24  
25



<b>A</b>	<b>against (2)</b> 24:9;44:9	<b>apologize (2)</b> 17:3;37:6	<b>audio (4)</b> 3:9,13;4:14;33:22	<b>9:13</b>
	<b>agencies (5)</b> 10:23;19:23;24:16; 25:8;31:7	<b>appear (1)</b> 44:10	<b>available (3)</b> 5:13;24:23;25:3	<b>blocks (1)</b> 10:4
<b>able (13)</b> 3:10,25;4:8;5:7; 9:10,11;10:5,15;19:5, 8;33:2;37:9,15	<b>agenda (1)</b> 6:18	<b>Appendix (2)</b> 37:19;45:15	<b>avoid (8)</b> 12:7;26:1,2,8,21, 21;27:1;30:24	<b>blue (2)</b> 29:10,11
<b>accepted (1)</b> 12:20	<b>agree (1)</b> 31:13	<b>applicant (6)</b> 12:22;27:6,8;28:6, 23;30:9	<b>avoids (1)</b> 36:23	<b>BODELL (12)</b> 39:4,14,21,24; 40:10,17,23;41:1,4, 11,12,15
<b>accessible (1)</b> 34:13	<b>agreed (1)</b> 28:19	<b>application (7)</b> 5:22;6:12;8:21; 9:14;11:7;12:15,23	<b>aware (2)</b> 35:11;36:8	<b>B-O-D-E-L-L (1)</b> 41:12
<b>accessing (1)</b> 14:8	<b>ahead (13)</b> 3:7,9,23;33:23; 34:3,15;37:7,16;39:2; 40:11;41:19;45:4; 47:13	<b>applications (5)</b> 6:13;12:18,21; 13:12,18	<b>away (3)</b> 4:16;15:7;29:22	<b>book (1)</b> 38:4
<b>accomplish (1)</b> 19:8	<b>alignment (4)</b> 26:4,10;27:20,21	<b>applies (1)</b> 20:8	<b>awesome (2)</b> 36:24;38:14	<b>both (4)</b> 15:2;23:8,19;25:3
<b>account (2)</b> 31:20;32:19	<b>alignments (1)</b> 19:13	<b>appreciate (2)</b> 41:5,14	<b>B</b>	<b>box (2)</b> 9:16;17:23
<b>accounted (1)</b> 25:17	<b>ALJ's (1)</b> 10:21	<b>approvals (1)</b> 23:6		<b>branches (1)</b> 27:17
<b>accurately (1)</b> 5:8	<b>Allen (20)</b> 37:5,7,8,15,25;45:8, 8,12,16,17,20,22,25; 46:4,17,22,25;47:2,3, 10	<b>approve (2)</b> 28:22;30:9	<b>back (5)</b> 9:14;17:5,25;32:12; 43:3	<b>break (1)</b> 16:16
<b>acquire (1)</b> 14:25	<b>allow (1)</b> 25:21	<b>approved (1)</b> 7:23	<b>bar (1)</b> 26:23	<b>brief (1)</b> 32:10
<b>acquisition (1)</b> 47:23	<b>allowed (1)</b> 11:23	<b>April (1)</b> 13:3	<b>bare (2)</b> 25:11;27:16	<b>briefly (2)</b> 10:6;17:4
<b>acre (1)</b> 44:12	<b>almost (1)</b> 18:12	<b>area (6)</b> 10:1;13:6;16:21; 18:16;19:4;29:17	<b>barking (1)</b> 17:3	<b>build (11)</b> 15:1;17:17;18:6,16, 21,22;19:16,25;21:10, 20;40:7
<b>across (1)</b> 29:24	<b>along (7)</b> 3:3;15:10;16:23; 25:16;28:9;35:16; 36:9	<b>around (4)</b> 20:15;21:7;26:21; 28:1	<b>baseload (2)</b> 15:9,13	<b>building (3)</b> 29:20,23;42:2
<b>Act (1)</b> 11:25	<b>alternative (13)</b> 26:3,3,9,9,24;27:3, 5,9,20,25;29:5,24; 30:13	<b>Arrowhead (7)</b> 16:15;18:7,17; 42:15;43:8,18,20	<b>basically (7)</b> 19:13;20:9;23:2; 24:9,19;31:9;33:7	<b>buildings (1)</b> 30:2
<b>actual (2)</b> 13:4;24:6	<b>alternatives (8)</b> 11:15;25:23;27:15, 17;30:18,18;32:19; 48:3	<b>assembling (1)</b> 22:4	<b>behalf (1)</b> 7:6	<b>built (2)</b> 21:8;24:11
<b>actually (8)</b> 6:13;14:25;19:20, 21,24;36:10;39:15; 45:9	<b>always (1)</b> 24:24	<b>assembly (1)</b> 24:7	<b>behind (2)</b> 28:13;44:6	<b>bulk (1)</b> 16:20
<b>add (1)</b> 48:1	<b>amount (1)</b> 16:18	<b>assess (1)</b> 30:19	<b>Belden (9)</b> 34:19,22,24;36:5, 13,15,17,20,24	<b>business (1)</b> 7:25
<b>adding (1)</b> 15:18	<b>Analysis (1)</b> 22:22	<b>assessment (2)</b> 23:11,14	<b>below (1)</b> 17:11	<b>buttercup (1)</b> 25:15
<b>addition (1)</b> 33:2	<b>analyze (1)</b> 8:17	<b>assigned (1)</b> 10:14	<b>benefits (1)</b> 11:10	<b>button (3)</b> 31:23;33:3,5
<b>additional (1)</b> 4:11	<b>alternatives (8)</b> 11:15;25:23;27:15, 17;30:18,18;32:19; 48:3	<b>associated (2)</b> 13:24;22:6	<b>besides (1)</b> 7:20	<b>butts (1)</b> 44:8
<b>address (1)</b> 26:8	<b>amount (1)</b> 16:18	<b>assuming (1)</b> 46:6	<b>better (2)</b> 18:15;24:17	<b>buy (1)</b> 19:22
<b>Administrative (4)</b> 10:13;11:5;12:1; 13:7	<b>Analysis (1)</b> 22:22	<b>Atkinson (37)</b> 6:21;14:12,15,17; 36:1,2,7,14,16,18,21; 37:1;38:3,10,13; 39:12,17,23;40:2,12, 21,24;41:2;42:4,9,12, 17,22,24;43:5,11,16, 25;44:14,20;46:14; 47:19	<b>beyond (1)</b> 9:4	<b>C</b>
<b>advance (1)</b> 17:4	<b>amount (1)</b> 16:18	<b>attending (2)</b> 3:2;5:2	<b>Bible (2)</b> 41:24;44:3	
<b>advocate (2)</b> 24:8;31:2	<b>analyze (1)</b> 8:17	<b>attention (1)</b> 6:7	<b>big (3)</b> 7:19;17:23;46:20	<b>cable (1)</b> 22:7
<b>affect (2)</b> 42:3;44:17	<b>ancient (1)</b> 26:16		<b>biggest (1)</b> 35:18	<b>calendar (2)</b> 34:9,13
<b>affecting (1)</b> 38:5	<b>anticipate (1)</b> 20:12		<b>Bill (13)</b> 6:25;10:9;22:17,18, 19;28:18;29:23; 33:20;34:8;37:12; 47:18,25;48:20	<b>call (3)</b> 22:14;27:2;48:9
<b>again (15)</b> 6:6;11:24;22:10; 24:14;27:15;29:15; 32:13,14,22,23;33:21; 35:16;46:3,13;48:15	<b>anymore (2)</b> 45:19;47:17		<b>bit (4)</b> 20:7,15;32:5;38:1	<b>called (2)</b> 24:24;45:10
	<b>Anyways (1)</b> 46:1		<b>block (1)</b>	<b>caller (1)</b> 41:6
	<b>apart (1)</b> 20:20			<b>callers (1)</b> 3:18
				<b>call-in (6)</b>

<p>34:1;38:25;39:1; 44:23,24;45:4 <b>came (1)</b> 28:15 <b>can (58)</b> 3:7,14;4:1,6,7;6:9; 9:14;11:4;13:15;14:3, 16;17:15;18:4,15; 19:9;20:11,18,19; 21:3;22:11,13;23:24; 25:1,19;26:8;27:3,4; 30:23,23,24;31:8,10, 22,22,24;32:11,13; 33:6,18,23;34:3,22, 23;36:3,4;37:16,17, 22,25;39:2;43:24; 44:25;45:6,19;46:13; 47:23;48:4,15 <b>captured (1)</b> 11:8 <b>carriers (1)</b> 7:17 <b>carries (1)</b> 9:1 <b>case (3)</b> 10:14;29:7,8 <b>cases (1)</b> 19:23 <b>cause (2)</b> 16:19;19:12 <b>cedars (1)</b> 26:16 <b>cell (1)</b> 22:12 <b>center (2)</b> 19:9;21:24 <b>Century (1)</b> 7:17 <b>certain (2)</b> 19:7;26:11 <b>certificate (8)</b> 6:16;8:8;11:3,6; 12:17;21:15;23:7,16 <b>Cezar (31)</b> 3:3;4:1,15,17,18, 20;14:15;17:14;23:4, 5,20;24:13,21;25:4, 20;27:11;28:24; 29:14;31:3;32:2,15, 25;33:12,17;35:24, 25;37:15;47:16,25; 48:9,11 <b>changed (1)</b> 28:22 <b>changes (3)</b> 26:4,10;31:14 <b>characteristics (1)</b> 6:22 <b>charged (1)</b> 7:15 <b>chat (10)</b> 3:7,24;4:9;33:23; 34:5,15;37:9,10;45:9;</p>	<p>47:14 <b>chatted (2)</b> 37:18;38:6 <b>check (1)</b> 47:4 <b>Christine (1)</b> 5:3 <b>Christmas (2)</b> 25:11;27:16 <b>Church (4)</b> 41:24;43:17,17; 44:3 <b>circuit (5)</b> 38:17;39:19;40:8; 46:6,15 <b>circuits (9)</b> 16:6,17;18:13,23; 19:6;20:17;21:4;40:6, 15 <b>citizens (4)</b> 24:17;28:12,13; 29:21 <b>city (1)</b> 18:2 <b>clear (1)</b> 21:23 <b>clearly (1)</b> 5:5 <b>click (2)</b> 13:22;33:6 <b>closer (1)</b> 42:25 <b>closes (1)</b> 48:6 <b>closing (1)</b> 47:18 <b>CN (2)</b> 6:15;23:10 <b>coal-fired (2)</b> 15:7,10 <b>cohost (2)</b> 3:3,24 <b>collected (1)</b> 34:17 <b>collocated (2)</b> 17:9;18:12 <b>collocating (2)</b> 16:3,7 <b>colored (1)</b> 39:9 <b>combination (1)</b> 8:7 <b>comment (44)</b> 3:6,12,14;4:10,13; 5:6;10:23;24:4;26:13; 31:5,23,24,25;32:8, 12,14,23;33:3,3,16, 22,24;34:2,7,11,20; 35:22;36:1;37:7,9,11; 38:23;39:1,3,5;41:19; 44:22,24;45:1,6; 47:13;48:1,2,6 <b>commenters (2)</b></p>	<p>32:12;48:8 <b>comments (17)</b> 4:9;5:1;7:9;9:21; 10:21,22;31:18;32:1, 10,16,17,20;33:18; 34:17;35:8;37:10; 48:13 <b>Commerce (9)</b> 5:14;7:2,5;13:17; 22:20,21;25:4;30:16; 31:12 <b>Commission (34)</b> 4:21;6:12,14,19; 7:6,11,12,16,20;8:4,5, 12,17,25;9:9;10:19, 19,25;11:5,10,14,20; 12:2,20;13:9;14:6; 23:6,24,24;27:4; 28:21;29:10;30:6; 34:10 <b>Commissioner (2)</b> 31:11,11 <b>Commissioners (1)</b> 8:19 <b>Commission's (1)</b> 7:24 <b>common (1)</b> 20:11 <b>communications (1)</b> 22:7 <b>companies (2)</b> 7:14,14 <b>complete (1)</b> 10:20 <b>completed (1)</b> 3:6 <b>components (2)</b> 16:13;24:2 <b>concept (1)</b> 26:12 <b>concern (3)</b> 26:6,7;29:15 <b>concerned (1)</b> 29:21 <b>concerns (5)</b> 15:15;24:18;25:7, 22;27:14 <b>conclude (1)</b> 48:15 <b>concluded (1)</b> 48:21 <b>concrete (1)</b> 21:8 <b>concurrently (1)</b> 8:11 <b>conducted (1)</b> 8:24 <b>conducting (3)</b> 6:14;7:5;9:17 <b>conductor (1)</b> 22:6 <b>conducts (1)</b> 8:6</p>	<p><b>confirm (1)</b> 46:18 <b>conflicts (1)</b> 12:7 <b>confound (1)</b> 19:12 <b>congestion (1)</b> 21:5 <b>connect (5)</b> 3:25;15:23;16:16; 18:6,20 <b>connected (2)</b> 3:13;33:22 <b>connection (1)</b> 4:14 <b>connections (2)</b> 15:18,19 <b>connects (1)</b> 18:13 <b>conserving (1)</b> 12:5 <b>consideration (1)</b> 10:20 <b>construct (1)</b> 19:25 <b>construction (6)</b> 6:23;7:23;11:23; 19:21;20:24;21:21 <b>consultant (1)</b> 38:15 <b>contact (5)</b> 22:11;33:14,16; 48:3,4 <b>contacted (1)</b> 35:9 <b>contents (2)</b> 25:2;31:10 <b>continuing (1)</b> 40:5 <b>contribute (1)</b> 12:5 <b>contributes (1)</b> 12:10 <b>converter (1)</b> 18:19 <b>copies (3)</b> 5:11,13,17 <b>corner (1)</b> 39:16 <b>corrected (1)</b> 15:17 <b>correctly (1)</b> 37:6 <b>corridor (2)</b> 21:19;36:9 <b>cost (1)</b> 12:9 <b>Costco (2)</b> 43:6;44:6 <b>Costco's (1)</b> 43:3 <b>Cotton (4)</b> 27:19,22;28:25;</p>	<p>29:2 <b>couple (6)</b> 4:24;21:22;28:1,5; 37:13;46:24 <b>course (2)</b> 9:2;35:21 <b>court (6)</b> 5:2,7;37:17;41:9, 19;45:6 <b>cover (1)</b> 23:15 <b>create (1)</b> 13:17 <b>cross (4)</b> 29:2;35:5;42:14,15 <b>crossed (2)</b> 28:1;29:6 <b>crosses (1)</b> 43:8 <b>crossing (5)</b> 27:21,23,24;35:15, 17 <b>crossings (1)</b> 29:3 <b>currently (4)</b> 9:17;38:24;39:6; 40:18 <b>cursor (1)</b> 9:12 <b>customers (1)</b> 7:15 <b>cuts (2)</b> 39:15,22</p>
<b>D</b>				
<p><b>Dan (11)</b> 34:19,22,24;36:5,8, 13,15,17,20,24;37:4 <b>data (1)</b> 36:19 <b>date (1)</b> 32:24 <b>day (2)</b> 16:10;48:9 <b>DC (1)</b> 18:19 <b>deal (1)</b> 30:22 <b>decide (1)</b> 13:11 <b>deciding (1)</b> 11:6 <b>decision (10)</b> 8:5,20;9:3,5,9; 10:25;28:21;29:9; 30:6;31:13 <b>decisionmakers (1)</b> 23:23 <b>deck (1)</b> 34:11 <b>degree (1)</b> 21:12</p>				

<b>demand (1)</b> 11:16 <b>depart (1)</b> 30:8 <b>Department (14)</b> 5:14;7:2,5;10:8; 13:16,16;14:24; 22:19,20,25;23:13; 30:15;31:12;47:18 <b>depending (1)</b> 20:20 <b>depends (1)</b> 19:7 <b>describe (2)</b> 18:10;30:17 <b>design (1)</b> 36:22 <b>determination (4)</b> 10:8;12:3;13:11; 24:1 <b>determined (1)</b> 13:3 <b>determines (2)</b> 22:2,25 <b>developing (2)</b> 8:15;48:2 <b>diagram (4)</b> 9:10,13;28:9;29:18 <b>Diane (1)</b> 36:13 <b>dictates (1)</b> 31:15 <b>different (9)</b> 11:18;15:21;18:18; 19:11;21:4;22:22; 28:5,6;40:3 <b>digits (2)</b> 3:17,19 <b>diligently (1)</b> 36:22 <b>diminishes (1)</b> 17:11 <b>direct-embedded (1)</b> 20:14 <b>directly (2)</b> 20:22;33:9 <b>disagree (1)</b> 31:14 <b>District (1)</b> 35:1 <b>DNR (2)</b> 27:22;29:3 <b>docket (4)</b> 5:24;14:2;25:14; 28:6 <b>document (21)</b> 10:10;13:4;23:1,2, 9,15,15,18;24:6,8,25; 25:9,11,17;27:13; 29:13;30:16,17;31:1, 20;37:21 <b>documents (4)</b> 13:24;14:2;24:19;	46:8 <b>dogs (1)</b> 17:3 <b>done (7)</b> 8:23;14:10;15:9; 21:14;22:5;33:17; 40:13 <b>double (7)</b> 38:17;39:9,19;46:5, 9,15;47:5 <b>double-circuit (4)</b> 38:7,9;39:22;40:3 <b>double-line (1)</b> 39:10 <b>down (2)</b> 16:9;29:16 <b>downstream (1)</b> 31:7 <b>Downtown (1)</b> 8:25 <b>draft (4)</b> 10:10;24:24,25; 27:12 <b>draw (1)</b> 6:7 <b>dual (1)</b> 10:2 <b>Duluth (17)</b> 3:4;5:23,24;6:3; 10:1;14:21;15:3,24, 25;16:21;17:16,23; 18:1;20:15;35:1; 41:24;44:2 <b>Duluth's (1)</b> 17:20 <b>during (4)</b> 9:24;26:5,12;31:5	12:9 <b>efficiencies (1)</b> 11:18 <b>efficient (1)</b> 12:9 <b>eFiling (1)</b> 10:19 <b>either (4)</b> 5:14;13:15;26:2; 31:13 <b>electric (1)</b> 12:11 <b>electrically (1)</b> 31:25 <b>electronic (1)</b> 14:4 <b>else (7)</b> 26:18;38:21,22,23; 40:1;44:22;47:12 <b>e-mail (1)</b> 31:22 <b>embedded (1)</b> 20:23 <b>end (3)</b> 16:9;18:1;39:19 <b>ended (1)</b> 29:11 <b>ends (4)</b> 18:1;26:13;31:25; 32:24 <b>Energy (7)</b> 4:21;7:22;11:12,16; 14:20;15:8;22:21 <b>engineer (1)</b> 4:20 <b>engineered (1)</b> 36:22 <b>engineering (2)</b> 22:1;41:2 <b>engineers (1)</b> 35:7 <b>enhanced (1)</b> 16:8 <b>enhances (2)</b> 11:11;16:20 <b>enhancing (1)</b> 15:4 <b>enough (1)</b> 30:8 <b>entire (3)</b> 10:24;16:3;17:13 <b>entirely (1)</b> 18:12 <b>environment (2)</b> 24:11,12 <b>environmental (21)</b> 5:21;7:1,4;9:18; 10:7;11:11;12:6,25; 14:18;22:21;23:1,8,9, 10,14,21,22;24:2; 29:13;30:20,25 <b>ER (2)</b> 23:9,19	<b>error (1)</b> 9:5 <b>essentially (1)</b> 17:22 <b>estate (3)</b> 14:19,24;43:23 <b>even (3)</b> 18:19;22:12;40:4 <b>evening (6)</b> 4:3,19;22:18;34:17; 48:17,19 <b>events (1)</b> 16:19 <b>eventually (1)</b> 31:14 <b>everybody (5)</b> 4:16,5;20;48:16,19, 20 <b>everyone (3)</b> 4:19;5:4;48:12 <b>example (5)</b> 13:13;25:14;27:15, 19;28:2 <b>examples (2)</b> 28:5;30:11 <b>Excellent (1)</b> 41:4 <b>exception (1)</b> 17:8 <b>existing (11)</b> 11:18;16:1,16;17:1, 9;18:7,13,22;20:17; 38:17;39:25 <b>expensive (1)</b> 21:9 <b>exposed (1)</b> 16:18	27:1;33:10 <b>features (1)</b> 32:18 <b>February (5)</b> 24:5;26:13;31:25; 32:23;48:6 <b>feedback (1)</b> 45:3 <b>feel (5)</b> 9:4;34:5,15;37:14; 38:24 <b>fee-owned (1)</b> 18:24 <b>feet (4)</b> 19:15;20:3,4,19 <b>few (3)</b> 7:18;15:21;16:23 <b>figured (1)</b> 42:5 <b>filed (3)</b> 9:14;12:18;14:2 <b>filing (1)</b> 14:4 <b>final (8)</b> 10:25;19:17;22:1,5; 28:21;29:8;30:6; 33:13 <b>find (3)</b> 8:7;13:14;43:17 <b>findings (1)</b> 10:16 <b>first (9)</b> 3:17,19;4:24;5:5; 6:4;9:8;14:8,19;21:22 <b>fit (1)</b> 20:4 <b>five (2)</b> 8:19;32:11 <b>flexibility (1)</b> 19:17 <b>flow (1)</b> 9:10 <b>focus (1)</b> 32:16 <b>follow (3)</b> 16:1;32:8,13 <b>Followed (1)</b> 13:3 <b>following (3)</b> 10:6;17:2;20:18 <b>formal (1)</b> 48:5 <b>found (2)</b> 34:9;38:15 <b>foundations (1)</b> 21:9 <b>four (1)</b> 7:7 <b>Fred (16)</b> 41:17,17,21;42:7, 11,16,19,23;43:2,10, 13,19;44:4,7,13,18 <b>free (5)</b>
	<b>E</b>		<b>F</b>	
	<b>E015/CN-21-140 (1)</b> 5:25 <b>EA (5)</b> 10:10;13:3,4;23:10, 19 <b>earlier (2)</b> 6:17;12:16 <b>easement (4)</b> 19:22;39:7;40:18, 19 <b>east (3)</b> 18:2;28:14,19 <b>echoing (1)</b> 45:2 <b>edge (1)</b> 15:24 <b>eDocket (1)</b> 14:4 <b>eDockets (3)</b> 5:17,18;25:3 <b>EERA (2)</b> 22:22,22 <b>effective (1)</b>			

34:5,15;37:11,14; 38:24 <b>front (3)</b> 29:19;30:6;43:18 <b>Frontier (1)</b> 7:18 <b>further (3)</b> 22:15;30:1;48:14 <b>future (1)</b> 47:21	26:16 <b>guess (8)</b> 32:4;35:12,18,21; 38:5;39:5,24;47:20 <b>guessing (1)</b> 38:3 <b>guidelines (1)</b> 32:9 <b>guy (1)</b> 21:25 <b>guys (1)</b> 35:17	<b>high (1)</b> 30:8 <b>higher (2)</b> 16:13;21:11 <b>high-voltage (2)</b> 5:22;8:10 <b>Highway (2)</b> 35:16;43:12 <b>Hilltop (1)</b> 18:1 <b>historic (2)</b> 29:16;30:2 <b>historical (1)</b> 29:20 <b>Hoena (30)</b> 3:1,1,24;33:20; 34:23;35:23;36:4,6; 37:3,18;38:6,12,19; 41:8,13,16;44:21; 45:11,16,18,21,23; 46:2,12,23;47:1,8,11; 48:7,18 <b>Hold (2)</b> 35:24;38:10 <b>homes (1)</b> 28:11 <b>hoping (2)</b> 9:11;10:4 <b>host (1)</b> 4:6 <b>hosted (1)</b> 6:3 <b>H-pole (3)</b> 46:9;47:4,5 <b>human (2)</b> 12:6;30:19 <b>HVTL (1)</b> 12:17 <b>hyperlink (1)</b> 13:21	<b>including (2)</b> 11:16;34:10 <b>incorporate (2)</b> 23:18;25:8 <b>increases (1)</b> 11:12 <b>indicated (1)</b> 35:7 <b>individual (2)</b> 13:12;19:22 <b>individually (1)</b> 23:8 <b>individuals (1)</b> 21:19 <b>information (29)</b> 4:11;5:8,20;6:5,10, 23:8,15,16,18;9:18; 12:21,25;13:14,24; 22:11;23:23,25; 24:16,20;31:7;33:8, 14,16;34:8,12;38:11; 40:25;41:5;48:4 <b>infrastructure (3)</b> 12:11;14:21;28:17 <b>input (4)</b> 7:4;9:20,23;33:7 <b>inquiring (1)</b> 41:23 <b>inside (1)</b> 22:20 <b>installed (1)</b> 35:20 <b>instruction (1)</b> 37:12 <b>instructions (1)</b> 32:13 <b>integrity (1)</b> 30:3 <b>intended (1)</b> 19:9 <b>interceptor (2)</b> 35:4,5 <b>interest (1)</b> 35:18 <b>intersection (1)</b> 39:18 <b>into (15)</b> 4:23;10:20;16:15, 17;17:24,25;18:22; 20:23;25:8;29:12,13; 30:4,19;34:25;35:3 <b>investor-owned (1)</b> 7:13 <b>invite (1)</b> 36:1 <b>involved (1)</b> 15:2 <b>involves (2)</b> 22:3;24:15 <b>issue (6)</b> 7:21,25;8:20;25:23; 26:25;29:11 <b>issued (1)</b>	9:1 <b>issues (5)</b> 25:6,22;27:13; 32:17;48:3 <b>issuing (1)</b> 8:12 <b>item (2)</b> 7:7;28:17 <b>items (1)</b> 27:16
<b>G</b>				<b>J</b>
<b>GAGE (7)</b> 43:21,22;44:1,2,5,8, 15 <b>gas (3)</b> 7:14,16;8:1 <b>gather (4)</b> 7:4;23:23;24:20; 25:22 <b>gathering (3)</b> 8:15;24:15;40:25 <b>gave (2)</b> 6:2;32:14 <b>generation (1)</b> 15:7 <b>generators (1)</b> 15:13 <b>generic (2)</b> 25:2;27:16 <b>gets (1)</b> 17:24 <b>GIS (1)</b> 43:23 <b>given (3)</b> 12:15;13:20;27:19 <b>gives (2)</b> 19:17;21:10 <b>giving (2)</b> 6:5,10 <b>goal (1)</b> 23:21 <b>goes (5)</b> 22:7;24:5;39:20; 42:14;43:7 <b>good (3)</b> 4:19;22:18;40:22 <b>governing (1)</b> 11:24 <b>granted (3)</b> 8:8,21;11:7 <b>great (3)</b> 43:25;48:16,19 <b>greatly (1)</b> 16:18 <b>green (2)</b> 9:16,19 <b>ground (1)</b> 27:1 <b>group (2)</b> 22:20;28:12 <b>grove (1)</b>	<b>H</b> <b>Haines (1)</b> 35:16 <b>half (3)</b> 13:19;17:25;18:3 <b>hammering (1)</b> 32:22 <b>hand (11)</b> 3:15,20,21;5:11; 22:16;34:3,6,20; 38:24;44:25;47:14 <b>hang (2)</b> 25:13,19 <b>hangs (1)</b> 41:7 <b>happen (2)</b> 16:23;21:22 <b>happened (2)</b> 12:19;45:24 <b>happens (1)</b> 17:4 <b>hard (1)</b> 26:23 <b>headquarters (1)</b> 8:25 <b>hear (6)</b> 34:19,22;36:3; 37:17;45:18,19 <b>hearing (5)</b> 8:24;9:25;10:13,15; 13:5 <b>held (1)</b> 9:25 <b>Hello (3)</b> 37:19;45:20,22 <b>help (5)</b> 4:1,4;27:2;43:24; 48:2 <b>here's (1)</b> 22:10 <b>Hermantown (4)</b> 15:25;17:23,24; 20:16 <b>Hey (1)</b> 43:21 <b>H-frame (1)</b> 20:13 <b>Hi (1)</b> 45:8	<b>I</b> <b>idea (1)</b> 30:12 <b>identifies (1)</b> 30:20 <b>identify (2)</b> 3:16;41:8 <b>impact (7)</b> 21:18;26:14,20; 30:7,7,23,24 <b>impacted (1)</b> 26:19 <b>impacts (7)</b> 12:6;24:11;25:25; 30:20,21,22,24 <b>inceptor (1)</b> 35:20 <b>include (1)</b> 12:22 <b>included (1)</b> 12:17	<b>J-3 (1)</b> 37:19 <b>January (1)</b> 13:1 <b>Jim (44)</b> 6:21;14:12,14,15, 17;36:1,2,2,6,7,14,16, 18,21;37:1;38:3,10, 13;39:6,12,17,23; 40:2,12,21,24;41:2; 42:4,9,12,17,22,24; 43:5,11,16,25;44:14, 20;45:14;46:5,13,14; 47:19 <b>job (1)</b> 14:19 <b>JOHN (12)</b> 39:4,14,21,24; 40:10,17,23;41:1,4, 11,11,15 <b>J-O-H-N (1)</b> 41:12 <b>judge (3)</b> 10:14,14;13:7 <b>judicial (2)</b> 9:7,8 <b>July (2)</b> 10:1;13:6 <b>June (1)</b> 13:5 <b>justification (1)</b> 8:9	<b>K</b> <b>keep (2)</b> 30:3;32:10 <b>Kenwood (1)</b> 17:21 <b>keypad (1)</b> 3:15 <b>kind (5)</b> 8:17;17:11;19:7; 26:23;35:3 <b>kindergarten (1)</b> 32:6 <b>knew (2)</b> 25:15;28:13 <b>knowledge (1)</b> 31:19

<b>kV (16)</b> 15:22;16:11,14,16; 17:8,12,17;18:4,6,7, 15,21,22;20:2,6,25	<b>line (37)</b> 5:23;6:15;7:22; 8:10,13;15:15,16,23; 16:5,11,14,16;17:9; 18:7,19,22;19:9;20:2, 6;21:21,24;23:17; 25:16;26:1;27:16; 28:8,16;29:17;38:8,9, 18;39:8,10,15,19,22; 43:14	<b>magenta (1)</b> 39:9 <b>mail (1)</b> 31:22 <b>main (3)</b> 9:13;13:24;15:22 <b>mainly (2)</b> 7:13;15:10 <b>maintain (1)</b> 19:25 <b>major (2)</b> 12:14,16 <b>majority (1)</b> 17:16 <b>makes (2)</b> 17:22;31:12 <b>making (3)</b> 12:3;15:6;32:8 <b>manager (2)</b> 7:1;14:19 <b>manner (1)</b> 30:22 <b>many (1)</b> 29:3 <b>map (5)</b> 17:16;38:4,14,16; 39:11 <b>maps (1)</b> 35:14 <b>March (1)</b> 13:3 <b>Matter (1)</b> 48:21 <b>Matthews (1)</b> 36:13 <b>may (2)</b> 25:23;35:8 <b>maybe (3)</b> 11:17;32:11;37:21 <b>mean (4)</b> 13:16;19:16;40:10; 42:1 <b>meandering (1)</b> 29:4 <b>meanders (1)</b> 27:23 <b>Meaning (1)</b> 12:21 <b>means (2)</b> 8:15;20:25 <b>meet (4)</b> 13:9;21:16;27:7,9 <b>meeting (19)</b> 3:2,23;5:2,10,15, 21;6:8,9;7:3;9:19; 10:6;12:25;13:10,11, 21;34:25;35:3;36:10; 48:15 <b>meetings (2)</b> 6:4;10:2 <b>member (2)</b> 3:5,22 <b>members (2)</b>	7:9;8:17 <b>mentioned (9)</b> 6:16;13:6;16:25; 17:6;18:8,11;20:22; 23:5;34:8 <b>mentioning (1)</b> 8:15 <b>message (1)</b> 45:9 <b>met (1)</b> 12:23 <b>Metrocrest (1)</b> 33:4 <b>mic (2)</b> 37:24;45:10 <b>microphone (2)</b> 4:5,7 <b>mics (1)</b> 46:24 <b>might (3)</b> 10:1;19:10;38:11 <b>mile (3)</b> 18:3,6;20:9 <b>miles (5)</b> 15:22,25;16:10,18; 28:1 <b>milestones (2)</b> 12:14,16 <b>Miller (1)</b> 43:12 <b>minimize (1)</b> 30:23 <b>minimizing (2)</b> 12:5,6 <b>Minnesota (17)</b> 4:20;5:22;6:3,21; 7:2,13;8:24;11:13; 13:16;14:5,12,18; 15:6;18:23;39:6; 43:22;47:18 <b>minutes (2)</b> 32:11;37:14 <b>missing (1)</b> 9:6 <b>mitigate (4)</b> 25:25;26:20;30:21, 24 <b>mitigating (1)</b> 26:14 <b>Mogie (1)</b> 39:13 <b>monolithic (2)</b> 21:3;46:15 <b>monopole (1)</b> 46:11 <b>months (1)</b> 10:24 <b>moot (1)</b> 29:11 <b>more (13)</b> 13:10,14;15:8; 19:10;20:7;21:5,6,9, 10;37:14;38:1;39:5;	40:9 <b>most (4)</b> 10:4;18:23;20:11, 17 <b>moving (3)</b> 9:12;11:1,21 <b>much (12)</b> 4:1,15;21:9;22:16; 36:25;37:4;38:12; 41:14,20;44:15,19; 47:9 <b>multiple (1)</b> 27:24 <b>mute (2)</b> 4:3;17:4 <b>muted (4)</b> 34:18;35:23;46:1, 12
<b>L</b>				<b>N</b>
<b>laid (2)</b> 22:1;30:5 <b>Lake (10)</b> 15:11;39:13;41:24, 25;42:9,24;43:7,19; 44:9,10 <b>Lakes (1)</b> 35:1 <b>land (8)</b> 12:7;14:25;18:24; 21:16;28:13,14,15,18 <b>landing (1)</b> 13:23 <b>landline (1)</b> 7:16 <b>landowner (1)</b> 21:17 <b>landowners (1)</b> 19:22 <b>large (3)</b> 7:21;18:17;35:4 <b>last (10)</b> 5:5;6:2,5;7:7;9:15; 12:19;15:6;27:7; 41:21;45:12 <b>late (1)</b> 34:25 <b>later (1)</b> 9:24 <b>law (4)</b> 9:2;10:13;11:14; 13:7 <b>lay (1)</b> 24:9 <b>lays (1)</b> 31:2 <b>learn (1)</b> 6:11 <b>learned (1)</b> 32:6 <b>least (4)</b> 7:8;12:8;36:10; 40:19 <b>leave (2)</b> 33:14;37:13 <b>left (2)</b> 13:19;20:13 <b>length (3)</b> 16:3;17:13,25 <b>less (4)</b> 18:5;20:9;21:6; 40:9 <b>limited (1)</b> 11:17 <b>limits (1)</b> 18:3	<b>lines (5)</b> 16:1,6;17:1,12; 40:14 <b>line's (1)</b> 42:12 <b>link (6)</b> 5:15;7:18;13:20; 33:6;34:11,12 <b>listening (2)</b> 35:10;38:15 <b>little (9)</b> 20:7;29:5,25;31:23; 32:4;33:5;34:25; 37:25;42:25 <b>live (1)</b> 46:7 <b>local (4)</b> 10:22;15:14;31:18; 32:18 <b>located (3)</b> 17:21;35:16;44:5 <b>location (2)</b> 35:17;42:5 <b>locations (3)</b> 21:25,25;36:23 <b>logged (1)</b> 3:8 <b>lone (1)</b> 34:1 <b>look (13)</b> 8:12;11:15;14:1; 17:18;19:13;20:18; 25:1,10,10;29:23; 30:21;31:13;32:19 <b>looked (2)</b> 35:12,13 <b>looking (13)</b> 11:6,10,20;12:2,13; 17:17;25:5;28:23; 32:17,20;38:14;42:5; 46:8 <b>looks (3)</b> 3:18;35:15;44:11 <b>Loop (6)</b> 3:4;5:23;14:21; 15:3;17:16;45:3 <b>lot (1)</b> 26:25 <b>lower (1)</b> 3:21			<b>name (18)</b> 3:1,9;4:19;5:5,5,23; 7:18;14:17;22:18; 33:24;36:11;37:6; 38:16;41:9,18,21; 45:5,12 <b>namely (1)</b> 10:22 <b>natural (1)</b> 8:1 <b>nature (3)</b> 25:3;26:22;29:22 <b>near (2)</b> 28:7;35:20 <b>necessary (1)</b> 15:1 <b>need (24)</b> 3:23;4:4,6;16:7,23; 8:8;11:3,6;12:17; 15:5;19:20,22,24; 20:2,6,7;21:15,19; 23:1,7,16;27:8,9; 37:10;47:17 <b>needs (2)</b> 15:16;48:2 <b>neighborhoods (1)</b> 17:20 <b>network (2)</b> 15:14,19 <b>new (16)</b> 14:20,20;15:19,22; 16:11;19:13,25;33:1, 9;40:1,4,7,14,15,15; 44:23 <b>next (30)</b> 6:25;14:16;15:20; 17:14;18:9,9,14;19:2, 19;20:4,10;21:13; 22:9;23:4,12,20; 24:13;25:20;27:11; 28:3,24;29:14;30:14; 31:3;32:2,15,25;
	<b>M</b>			

<p>33:12;37:5;41:17 <b>night (2)</b> 6:2,5 <b>nobody (1)</b> 34:19 <b>North (7)</b> 15:10;17:19;29:18; 39:16,18,22;40:5 <b>northeast (1)</b> 43:6 <b>northern-most (1)</b> 17:20 <b>note (2)</b> 4:6,8 <b>notice (4)</b> 5:16;6:9;13:21; 35:14 <b>number (1)</b> 3:18 <b>numbers (2)</b> 5:25;14:6</p>	<p><b>opportunity (5)</b> 9:20,23;21:11; 24:20;31:21 <b>options (1)</b> 9:2 <b>orange (2)</b> 28:19,22 <b>order (3)</b> 3:11;8:4;19:24 <b>ornaments (2)</b> 25:13,18 <b>other-infrastructure (1)</b> 21:6 <b>Otherwise (3)</b> 4:12;37:11;47:14 <b>ours (1)</b> 18:18 <b>out (12)</b> 4:1;5:16;13:14; 15:9;22:1;24:9,24; 30:5;31:2;42:5;43:18, 24 <b>outage (1)</b> 16:19 <b>over (10)</b> 4:2;5:11;6:20; 10:15;14:12;15:6; 20:15;22:16;33:18; 43:12 <b>overall (1)</b> 17:11 <b>overhead (1)</b> 35:15 <b>overloading (1)</b> 15:16 <b>oversight (1)</b> 14:24 <b>overview (1)</b> 6:19</p>	<p>35:9;39:14 <b>Paul (3)</b> 8:24,25;45:11 <b>PAULA (32)</b> 3:1,1,24;4:18; 32:13;33:18,20; 34:23;35:23;36:4,6; 37:3,18;38:6,12,19; 41:8,13,16;44:21; 45:16,18,21,23;46:2, 12,23;47:1,8,11;48:7, 18 <b>people (10)</b> 4:25;5:12;6:11;9:4, 11;10:5;13:14;26:25; 31:17;46:24 <b>per (1)</b> 37:12 <b>percentage (1)</b> 17:11 <b>period (6)</b> 24:4;26:13;31:5,25; 32:24;48:6 <b>permit (16)</b> 8:12,21;9:1,3,5,9,9; 11:7,21,22;12:18; 13:12;14:20;21:15; 23:7,17 <b>permits (4)</b> 7:21,25;11:2,25 <b>permitting (4)</b> 8:3,3;21:14;27:5 <b>person (3)</b> 6:3;32:4;34:1 <b>pertains (2)</b> 32:3,5 <b>petroleum (1)</b> 8:1 <b>phase (2)</b> 9:17;22:6 <b>phases (2)</b> 9:13;21:22 <b>phone (4)</b> 3:18;22:12;34:3; 48:4 <b>physically (1)</b> 24:23 <b>picked (1)</b> 29:10 <b>piece (1)</b> 18:25 <b>pier (1)</b> 21:8 <b>pipelines (2)</b> 8:1,1 <b>plan (1)</b> 47:7 <b>Planning (2)</b> 4:22;39:25 <b>plans (1)</b> 19:12 <b>Plant (1)</b> 11:25</p>	<p><b>plants (1)</b> 15:10 <b>please (8)</b> 5:4;15:20;22:14; 34:2;41:9,18;45:5; 46:13 <b>plugging (1)</b> 14:6 <b>pm (1)</b> 48:21 <b>point (2)</b> 19:15;48:8 <b>pole (2)</b> 47:6,7 <b>poles (3)</b> 35:19;39:25;46:21 <b>polite (1)</b> 32:5 <b>portion (3)</b> 17:7;23:10,11 <b>possible (1)</b> 11:15 <b>Possibly (2)</b> 36:13;42:2 <b>potential (6)</b> 16:19;24:10;25:25; 30:7,19,21 <b>Power (11)</b> 6:21;7:13,15;11:24; 12:10;14:13,18;15:6; 18:24;39:7;43:22 <b>PowerPoint (1)</b> 5:11 <b>Power's (1)</b> 5:22 <b>preexisting (1)</b> 40:8 <b>prefer (1)</b> 14:1 <b>prepare (5)</b> 23:1,2,13,14;30:16 <b>prepared (1)</b> 6:24 <b>presentation (9)</b> 3:6;4:11,23;5:12, 13,18;6:2,6;10:5 <b>presented (2)</b> 6:5;48:13 <b>preside (1)</b> 10:15 <b>press (2)</b> 3:14;34:2 <b>pretty (4)</b> 16:2;18:17;20:20, 23 <b>previous (2)</b> 12:16;25:14 <b>previously (2)</b> 16:24;17:6 <b>probably (5)</b> 14:16;16:10;17:24; 36:14;38:4 <b>problem (1)</b></p>	<p>42:21 <b>process (10)</b> 6:12,20;7:10;8:6, 14;10:9,24;12:15; 22:24;26:5 <b>Proctor (1)</b> 18:2 <b>Project (51)</b> 3:4;5:14,24;6:11, 22;7:5,10;8:4,5,8,9, 10;9:6,13,24;10:1,17, 23;11:2,11,11,16,22; 12:4,8,9;13:5,15,25; 14:3,13,22;15:3,17; 16:2,4,14,24;17:16; 18:8;20:9,12;23:5; 24:9;28:6;30:16,17; 33:8;35:10;36:9,23 <b>projects (3)</b> 11:17;14:21;24:23 <b>project-specific (1)</b> 13:17 <b>pronunciation (1)</b> 22:23 <b>property (9)</b> 26:17,18;29:16; 38:5;39:7;41:23;43:4, 14,17 <b>propose (1)</b> 26:8 <b>proposed (13)</b> 6:10;25:16;26:4,10; 27:21;28:6;29:1,19; 35:13;42:13;43:7; 44:11,16 <b>proposes (1)</b> 15:17 <b>proposing (4)</b> 19:6;21:18;26:2; 35:6 <b>provide (8)</b> 9:20,23;14:23; 15:13;19:23;21:19; 22:12;24:7 <b>provided (1)</b> 36:18 <b>public (34)</b> 3:2,5,12,22;4:21; 5:20;6:14,19;7:9,12; 8:6,14,23;9:18,20,23, 25;10:12,15,21; 12:24;13:5;14:5; 23:24;25:7,12,22; 26:6;28:15,18;31:6; 33:19;34:10;35:14 <b>public-facing (1)</b> 34:9 <b>public-hearing-type (1)</b> 13:10 <b>publicly (1)</b> 37:17 <b>public-purpose (1)</b> 28:17</p>
<b>O</b>				
<p><b>objective (1)</b> 24:7 <b>October (2)</b> 9:15;12:19 <b>off (3)</b> 4:4,7;36:11 <b>offer (1)</b> 11:17 <b>office (1)</b> 35:7 <b>old (1)</b> 40:8 <b>once (5)</b> 9:1;21:14;22:5; 28:2;29:6 <b>one (25)</b> 10:4;11:3;13:9,12, 18;14:20;15:22; 17:20;20:9,13;23:6,7, 14,18;25:6;27:7; 28:25;29:14,24,25; 33:1;35:6;36:10; 37:21;40:15 <b>one-mile (1)</b> 18:21 <b>ones (2)</b> 8:20;14:25 <b>online (2)</b> 4:12;37:12 <b>only (10)</b> 3:13;4:7;20:8; 25:21,25;26:7,20; 28:1;29:5;35:21 <b>open (2)</b> 7:8;13:10 <b>operate (1)</b> 19:25 <b>operating (1)</b> 11:18</p>	<p><b>page (5)</b> 13:23;14:8;33:7,11; 37:19 <b>Panait (7)</b> 3:3;4:18,20;35:25; 37:15;47:16;48:11 <b>panelists (1)</b> 4:3 <b>parallel (4)</b> 40:6,7;41:25;43:14 <b>parcel (2)</b> 44:11,12 <b>part (12)</b> 3:7;7:19,24;12:14, 22;17:8,10;31:4;38:4, 7,8;46:7 <b>participating (3)</b> 14:11;48:12,16 <b>parts (3)</b> 14:19;15:2,21 <b>past (2)</b></p>	<b>P</b>		

<p><b>pulled (1)</b> 43:23</p> <p><b>purple (3)</b> 28:9;29:17;30:9</p> <p><b>purpose (3)</b> 6:8;7:3;30:17</p> <p><b>pushing (1)</b> 29:24</p> <p><b>put (9)</b> 3:9;16;20:3;24:24; 28:18;31:10;24; 33:24;34:16</p> <p><b>puts (2)</b> 28:19;33:9</p> <p><b>putting (1)</b> 26:1</p>	<p><b>recent (1)</b> 35:9</p> <p><b>recommend (1)</b> 31:8</p> <p><b>recommendations (2)</b> 8:19;10:16</p> <p><b>reconfiguration (1)</b> 16:25</p> <p><b>reconsideration (2)</b> 9:3,8</p> <p><b>record (2)</b> 8:16;10:20</p> <p><b>red (1)</b> 29:10</p> <p><b>reduce (1)</b> 16:18</p> <p><b>redundant (1)</b> 15:18</p> <p><b>referred (2)</b> 22:22;25:4</p> <p><b>referring (2)</b> 37:20,21</p> <p><b>regarding (1)</b> 35:9</p> <p><b>region (1)</b> 11:13</p> <p><b>regularly (1)</b> 7:20</p> <p><b>regulate (1)</b> 7:16</p> <p><b>regulates (1)</b> 7:12</p> <p><b>regulating (1)</b> 7:21</p> <p><b>reiterate (1)</b> 47:20</p> <p><b>released (4)</b> 10:10;13:4,7;31:15</p> <p><b>Reliability (6)</b> 5:24;11:12;14:22; 15:3,5;21:12</p> <p><b>remainder (1)</b> 6:1</p> <p><b>remind (1)</b> 5:12</p> <p><b>reminder (3)</b> 5:9;32:16;48:5</p> <p><b>reminders (1)</b> 4:24</p> <p><b>render (1)</b> 10:25</p> <p><b>renewable (1)</b> 15:8</p> <p><b>replaced (2)</b> 46:11;47:6</p> <p><b>report (4)</b> 10:16,18,21;23:10</p> <p><b>reporter (7)</b> 5:2,7;37:17;41:6, 10,19;45:6</p> <p><b>reports (1)</b> 13:6</p> <p><b>represents (1)</b></p>	<p>18:16</p> <p><b>requesting (1)</b> 30:10</p> <p><b>require (3)</b> 12:22;23:8;40:18</p> <p><b>required (1)</b> 11:14</p> <p><b>requirements (2)</b> 11:5;12:23</p> <p><b>requires (3)</b> 11:2,23;23:5</p> <p><b>rerouted (1)</b> 17:10</p> <p><b>resources (1)</b> 12:5</p> <p><b>responsibilities (1)</b> 23:16</p> <p><b>result (1)</b> 15:12</p> <p><b>retail (1)</b> 17:23</p> <p><b>review (16)</b> 5:21;6:12,14,20; 7:1,4;8:6;9:7,8;10:7; 12:15;22:21;23:9,22, 22;24:3</p> <p><b>Richie (1)</b> 43:22</p> <p><b>Ridgeview (1)</b> 17:19</p> <p><b>right (32)</b> 3:19;15:24;21:2; 29:19;35:16;36:9,11, 14;37:3;38:19;39:16, 22;41:13,16;42:6; 43:2,3,14;44:5,18,21; 45:2,3;46:2,9;47:4,8, 10,12,15;48:7,18</p> <p><b>right-of-way (10)</b> 18:25;19:20;20:3,5, 8;21:1,23;30:1;40:22; 47:22</p> <p><b>rights (4)</b> 15:1;19:24;21:16, 18</p> <p><b>RITCHIE (4)</b> 43:21;44:2,5,8</p> <p><b>River (9)</b> 27:20,22,23,23; 28:2,25;29:2,4,6</p> <p><b>road (10)</b> 28:11;35:17;41:24, 25,25;42:15;43:9,18, 20;44:9</p> <p><b>robust (1)</b> 21:10</p> <p><b>role (4)</b> 7:11;14:10;22:24; 23:3</p> <p><b>roughly (2)</b> 17:25;18:21</p> <p><b>route (42)</b> 8:12;11:21,25;</p>	<p>12:18;16:12;17:8; 18:4,11;19:3,4,4,11; 21:15;23:7,11,17; 26:3,3,9;27:21;28:7,9, 11,19,22;29:1,10,11, 19,24;30:9,13;35:6, 13;38:5,16;42:13; 43:7;44:16;46:7,7; 47:22</p> <p><b>routes (3)</b> 26:9;29:9;30:13</p> <p><b>routing (2)</b> 7:25;16:2</p> <p><b>rule (3)</b> 11:4,5;12:1</p> <p><b>rules (6)</b> 11:9;12:22;23:16, 17;25:21;26:11</p> <p><b>run (3)</b> 28:4,8,10</p> <p><b>running (3)</b> 29:25;41:25;43:14</p> <p><b>runs (2)</b> 35:5;39:15</p>	<p>17:23;18:5;39:16; 40:3</p> <p><b>sections (1)</b> 19:11</p> <p><b>secure (1)</b> 21:18</p> <p><b>security (1)</b> 12:10</p> <p><b>seeing (1)</b> 15:12</p> <p><b>segment (4)</b> 26:3;27:3,25,25</p> <p><b>segments (3)</b> 26:9;29:24;30:13</p> <p><b>self-unmute (1)</b> 3:11</p> <p><b>sense (2)</b> 28:20;30:2</p> <p><b>sent (2)</b> 5:16;45:9</p> <p><b>separate (3)</b> 16:17;18:23;40:6</p> <p><b>September (1)</b> 13:8</p> <p><b>service (1)</b> 15:9</p> <p><b>services (2)</b> 14:24;43:23</p> <p><b>session (1)</b> 3:8</p> <p><b>set (2)</b> 20:19;40:15</p> <p><b>setting (1)</b> 22:4</p> <p><b>settlements (1)</b> 12:7</p> <p><b>several (5)</b> 15:7,9,23;18:13,18</p> <p><b>Shakopee (1)</b> 29:17</p> <p><b>shield (1)</b> 22:8</p> <p><b>Shore (1)</b> 15:10</p> <p><b>short (4)</b> 18:5,24;27:25;29:5</p> <p><b>show (1)</b> 27:14</p> <p><b>showed (2)</b> 27:12,13</p> <p><b>shows (3)</b> 13:19;25:18;38:4</p> <p><b>side (3)</b> 11:22;29:18;43:3</p> <p><b>side-by-side (1)</b> 47:6</p> <p><b>significant (1)</b> 17:7</p> <p><b>signifies (1)</b> 9:19</p> <p><b>similarly (1)</b> 12:2</p> <p><b>Simons (1)</b></p>
<p><b>Q</b></p>				
<p><b>quality (1)</b> 11:12</p> <p><b>queue (8)</b> 3:10,16;33:25;34:6, 16;38:23;47:15;48:14</p> <p><b>quick (1)</b> 43:24</p> <p><b>quite (1)</b> 20:15</p>				
<p><b>R</b></p>				
<p><b>railroad (1)</b> 30:1</p> <p><b>raise (7)</b> 3:15,20;34:3,6; 38:24;44:25;47:14</p> <p><b>raised (1)</b> 30:8</p> <p><b>rare (1)</b> 25:15</p> <p><b>rates (2)</b> 7:15,21</p> <p><b>rather (1)</b> 27:6</p> <p><b>reach (3)</b> 22:11,13;47:23</p> <p><b>reached (1)</b> 9:5</p> <p><b>read (3)</b> 6:9;10:3;37:16</p> <p><b>real (5)</b> 14:18,24;42:20; 43:22,24</p> <p><b>really (3)</b> 16:9;17:7;35:18</p> <p><b>reason (1)</b> 4:25</p> <p><b>reasonable (1)</b> 7:15</p> <p><b>rebuild (1)</b> 16:25</p> <p><b>rebuilt (2)</b> 16:7;40:9</p>				
			<p><b>S</b></p>	
			<p><b>same (7)</b> 3:19;6:2,4,6;12:14; 16:8;39:8</p> <p><b>Sanitary (1)</b> 35:1</p> <p><b>satisfied (1)</b> 12:23</p> <p><b>satisfy (1)</b> 11:15</p> <p><b>save (1)</b> 21:11</p> <p><b>savings (1)</b> 20:5</p> <p><b>saying (3)</b> 37:6,24;40:13</p> <p><b>Schmitz (15)</b> 41:17,21;42:7,11, 16,19,23;43:2,10,13, 19;44:4,7,13,18</p> <p><b>S-C-H-M-I-T-Z (1)</b> 41:22</p> <p><b>scope (13)</b> 9:4;13:2;22:25; 25:1;29:8,12;30:4,19; 31:8,9,10,15,15</p> <p><b>scoping (16)</b> 5:21;9:18;10:7,8; 12:25;24:3,3,14,15, 24;25:5;26:5;27:13; 31:6,12;33:5</p> <p><b>screen (2)</b> 9:12;13:19</p> <p><b>second (6)</b> 5:9;7:3;9:22;11:22; 22:3;38:11</p> <p><b>section (4)</b></p>	

<p>5:3 <b>site (6)</b> 11:25;14:20;19:5; 25:24;42:2,20 <b>site-specific (1)</b> 26:7 <b>Siting (2)</b> 11:25;19:18 <b>six (2)</b> 3:17,19 <b>slide (18)</b> 11:3;14:16;15:20; 17:14;18:9,9,14;19:2; 19:20;10;21:13;22:9; 28:3,24;30:14;32:15; 33:13;34:11 <b>slides (1)</b> 12:16 <b>small (1)</b> 28:10 <b>snapshot (1)</b> 14:7 <b>soil (1)</b> 20:23 <b>solve (1)</b> 15:18 <b>somebody (1)</b> 25:14 <b>somehow (2)</b> 34:18;46:12 <b>someone (1)</b> 35:9 <b>sometime (5)</b> 9:25;10:11;13:3,4,8 <b>somewhere (2)</b> 26:18;43:4 <b>sorry (8)</b> 10:3;17:5;34:18; 37:23;40:11;42:23; 46:4,22 <b>sort (9)</b> 21:7,25;24:25;25:2; 11:30;25;32:3;33:15; 37:10 <b>sounds (4)</b> 15:4;36:24;40:15; 47:7 <b>sources (1)</b> 15:8 <b>south (5)</b> 18:1;30:1;42:13,14; 43:8 <b>southwesterly (1)</b> 43:12 <b>space (2)</b> 21:6,11 <b>span (1)</b> 20:18 <b>speak (6)</b> 5:4;32:7;34:21; 37:14,16;46:13 <b>speaking (1)</b> 34:19</p>	<p><b>species (1)</b> 25:15 <b>specific (3)</b> 25:24;26:14,22 <b>specifics (1)</b> 6:22 <b>spell (3)</b> 41:9,18;45:5 <b>split (1)</b> 18:22 <b>spoken (1)</b> 37:11 <b>spot (1)</b> 29:2 <b>St (2)</b> 8:24,25 <b>stability (1)</b> 15:15 <b>staff (1)</b> 8:17 <b>stake (1)</b> 21:24 <b>stakeholder (1)</b> 10:22 <b>stakeholders (4)</b> 24:16;25:7,12;31:6 <b>star (5)</b> 3:15,20,21;34:2; 44:25 <b>start (4)</b> 3:17;4:8;11:23; 19:3 <b>started (1)</b> 14:3 <b>starts (1)</b> 17:18 <b>state (7)</b> 5:5;7:17;8:2;10:22; 12:12;20:15;45:5 <b>Statute (1)</b> 11:24 <b>statutes (1)</b> 11:9 <b>statutory (1)</b> 11:4 <b>steel (5)</b> 21:3;46:15,20;47:6, 7 <b>stems (1)</b> 15:5 <b>still (1)</b> 40:25 <b>stop (1)</b> 4:7 <b>stops (1)</b> 17:18 <b>Storm (6)</b> 6:25;22:17,18,19; 47:25;48:20 <b>Storm's (1)</b> 37:12 <b>straight (3)</b> 42:13,14;43:8</p>	<p><b>straightforward (2)</b> 16:2;20:24 <b>strategic (1)</b> 14:23 <b>street (1)</b> 29:25 <b>stringing (1)</b> 22:6 <b>structure (6)</b> 21:2,3,24;36:23; 46:11,16 <b>structures (5)</b> 20:12,14;22:4;40:4, 15 <b>studied (2)</b> 27:18;28:20 <b>study (11)</b> 24:19;26:2;27:4,10, 25;28:18;29:5,7;30:5; 31:16;32:18 <b>sub (2)</b> 42:10;44:10 <b>subject (1)</b> 16:7 <b>submit (1)</b> 26:12 <b>submitted (2)</b> 10:18;35:8 <b>substantially (1)</b> 16:8 <b>substation (8)</b> 16:15;17:19;18:2,7, 17;42:8,25;43:7 <b>substations (3)</b> 15:24;16:23;18:13 <b>sufficient (1)</b> 41:3 <b>summarize (1)</b> 8:18 <b>summer (1)</b> 9:24 <b>Superior (2)</b> 15:11;35:1 <b>supply (2)</b> 11:13;12:11 <b>sure (14)</b> 7:14;25:8,17;31:19; 32:18;34:22;36:2,22; 37:19;39:17;40:12; 42:4;43:5;46:19 <b>survey (3)</b> 33:4,5;34:11 <b>Swan (8)</b> 41:24,25;42:9,24; 43:7,19;44:9,10 <b>system (2)</b> 14:4,5</p>	<p><b>talk (9)</b> 6:21;7:2;10:9; 14:13;27:2;42:1;46:5; 47:22;48:2 <b>talked (3)</b> 11:1,2;45:15 <b>talking (8)</b> 16:10;21:1;26:24; 29:1;30:12,13;39:8; 42:18 <b>tan-yellowish (1)</b> 18:16 <b>tax-forfeited (1)</b> 28:14 <b>telecommunications (1)</b> 7:17 <b>terrain (1)</b> 20:20 <b>Thanks (9)</b> 4:16;33:20;36:6,7; 37:3;38:12;47:8; 48:18,20 <b>there'll (4)</b> 9:22;10:7;13:2; 18:24 <b>thinking (1)</b> 43:13 <b>though (1)</b> 17:10 <b>thought (3)</b> 28:20;29:3;46:18 <b>three (1)</b> 30:11 <b>three-quarters (1)</b> 18:3 <b>throughout (2)</b> 3:23;24:4 <b>timeline (1)</b> 6:23 <b>times (2)</b> 26:25;27:24 <b>TL (2)</b> 6:15,15 <b>TL-21-141 (1)</b> 5:25 <b>tonight (10)</b> 3:4;4:13;6:6,18; 13:1;24:4,15;31:5,17; 48:12 <b>tonight's (6)</b> 3:2;6:1,8;7:3;9:4; 10:6 <b>top (2)</b> 22:7;36:12 <b>Tower (1)</b> 28:7 <b>transcribe (1)</b> 5:7 <b>transition (1)</b> 15:5 <b>transmission (22)</b> 5:23;6:15;7:22; 8:10,13;12:11;15:14,</p>	<p>16,19,23;16:1,11,14, 20;17:1,9;20:6;23:17; 26:1;28:8,16;39:10 <b>treat (1)</b> 32:7 <b>treatment (1)</b> 35:2 <b>tree (5)</b> 25:11,13,19;27:16, 17 <b>Trunk (1)</b> 43:12 <b>try (4)</b> 30:3;32:8;43:24; 46:2 <b>trying (8)</b> 12:7;21:7;31:6; 33:4,10;35:25;42:19; 43:16 <b>tune (1)</b> 35:3 <b>turn (8)</b> 3:11;4:2,4,6,7;6:20; 14:12;33:18 <b>turns (1)</b> 18:11 <b>twists (1)</b> 18:11 <b>two (20)</b> 3:18;6:13;11:1; 12:16;14:19;16:17; 17:12;18:22;20:3,4, 11;23:6;24:2;25:5; 29:9,23;40:13,14; 46:10;47:5 <b>two-series (1)</b> 6:4 <b>type (1)</b> 13:22 <b>types (2)</b> 20:11;21:4 <b>typically (1)</b> 21:5</p>
<b>U</b>				
<p><b>ultimately (1)</b> 8:20 <b>uncertain (1)</b> 19:10 <b>under (3)</b> 18:6;23:16,17 <b>UNIDENTIFIED (1)</b> 46:20 <b>unique (1)</b> 26:17 <b>Unit (1)</b> 4:22 <b>unmute (4)</b> 34:4;39:1;41:18; 44:25 <b>unmuted (5)</b> 34:21;37:7,13;39:2;</p>				



<p>46:24 <b>up (14)</b> 7:8;18:7;19:14; 27:3;28:7;29:11;30:1; 33:14;34:20;41:7; 42:20;43:23;44:8; 48:8 <b>upgrades (2)</b> 16:22;17:1 <b>upon (1)</b> 20:20 <b>use (3)</b> 12:7;14:3;23:25 <b>used (2)</b> 21:3,5 <b>useful (1)</b> 48:13 <b>user (5)</b> 38:25;39:1;44:23, 24:45:4 <b>using (3)</b> 20:12,25;39:25 <b>usually (2)</b> 20:24;30:21 <b>Utilities (7)</b> 4:21;6:19;7:12,13; 14:5;23:24;34:10</p>	<p><b>wastewater (2)</b> 35:2,5 <b>way (6)</b> 17:22;25:25;26:7, 20:27;23;33:7 <b>ways (2)</b> 9:7;30:20 <b>web (1)</b> 33:11 <b>Webex (4)</b> 3:8;33:22;36:10; 47:13 <b>website (9)</b> 5:15;13:17;14:9; 25:4;31:23,24;33:2; 34:10,13 <b>weigh (1)</b> 27:4 <b>weight (1)</b> 9:2 <b>weird (1)</b> 45:23 <b>welcome (4)</b> 4:12;5:20;37:1; 47:11 <b>west (4)</b> 18:4;39:15,20;44:9 <b>Western (1)</b> 35:1 <b>what's (1)</b> 24:24 <b>whenever (1)</b> 5:6 <b>wide (2)</b> 19:14,16 <b>Widell (14)</b> 37:5;45:8,9,12,17, 20,22,25;46:4,17,22, 25;47:3,10 <b>W-I-D-E-L-L (1)</b> 45:13 <b>wider (2)</b> 19:11;40:18 <b>widest (1)</b> 19:15 <b>width (4)</b> 19:3,6;40:22;41:3 <b>wire (1)</b> 21:25 <b>wires (1)</b> 22:8 <b>wish (2)</b> 3:6,14 <b>within (3)</b> 4:11;19:5,8 <b>Wondering (3)</b> 38:7,8;42:3 <b>wood (1)</b> 20:13 <b>work (5)</b> 14:17;21:7;22:19; 34:25;44:11 <b>working (1)</b></p>	<p>36:21 <b>worth (1)</b> 27:5 <b>write (1)</b> 10:16</p> <p><b>Y</b></p> <p><b>yard (2)</b> 18:21;26:15 <b>yards (1)</b> 18:18 <b>year (2)</b> 9:15;12:19 <b>years (1)</b> 15:7 <b>Yup (1)</b> 41:15</p> <p><b>1</b></p> <p><b>1,000 (1)</b> 20:19 <b>1,800 (1)</b> 19:15 <b>100 (2)</b> 17:12;20:3 <b>100-foot (1)</b> 40:19 <b>100-foot-wide (1)</b> 21:1 <b>115 (7)</b> 15:22;16:11;17:12, 17;18:4;20:2,25 <b>12 (1)</b> 10:24 <b>12-and-a-half (1)</b> 44:12 <b>130-foot-wide (1)</b> 20:7 <b>135 (1)</b> 28:7 <b>14 (2)</b> 15:22,25 <b>14-mile (1)</b> 16:11 <b>160 (1)</b> 20:4 <b>18 (1)</b> 37:19</p> <p><b>2</b></p> <p><b>21-140 (2)</b> 5:17;14:6 <b>21-141 (1)</b> 5:17 <b>216E (1)</b> 11:24 <b>218-343-9119 (2)</b> 22:13;47:24 <b>218-3891 (1)</b> 39:1</p>	<p><b>218-390 (1)</b> 45:4 <b>23 (1)</b> 37:19 <b>230 (9)</b> 16:14,16;17:8;18:6, 7,15,21,22;20:6 <b>27th (1)</b> 13:1 <b>28 (1)</b> 16:10</p> <p><b>3</b></p> <p><b>3 (5)</b> 3:15,20,21;34:2; 44:25</p> <p><b>4</b></p> <p><b>4th (5)</b> 24:5;26:13;31:25; 32:23;48:6</p> <p><b>5</b></p> <p><b>500 (1)</b> 20:19 <b>500-feet (1)</b> 19:14 <b>53 (2)</b> 35:16;43:12</p> <p><b>7</b></p> <p><b>7:04 (1)</b> 48:21 <b>71 (2)</b> 38:18;39:19 <b>7850 (1)</b> 12:1</p>
<b>V</b>			
<p><b>varies (1)</b> 19:14 <b>verbally (1)</b> 5:1 <b>versus (1)</b> 6:16 <b>via (4)</b> 3:13;10:19;33:22; 37:10 <b>vicinity (3)</b> 39:13;42:17;43:6 <b>video (6)</b> 3:8,11;4:4,8,13; 33:23 <b>view (2)</b> 18:15;25:1 <b>virtual (2)</b> 5:10;10:2 <b>virtually (4)</b> 6:6;16:3;17:13; 22:14 <b>voltage (2)</b> 15:15;16:13 <b>voltages (2)</b> 18:19;21:4</p>			
<b>W</b>			
<p><b>wait (1)</b> 38:19 <b>wants (5)</b> 25:22;27:6;36:1; 48:1,2</p>			