XCEL ENERGY SECURITY NOTICE: This email originated from an external sender. Exercise caution before clicking on any links or attachments and consider whether you know the sender. For more information please visit the Phishing page on XpressNET.

Dear [Name],

I am here at [Company Name], which is a subsidiary of [Parent Company Name]. I’m reaching out to you, asking and seeking any power generation, interconnections and substation type work you may be needing.

A little bit more about [Company Name]. Currently we have successfully completed over 2 Gigawatts of renewable energy across the USA working with developers and the EPC’s.

We have streamlined the substation and interconnection scope to half the time of a standard scope. The reason I am reaching out to you and your company I have been reading about the Pomerleau Substation and would like to know more about the RFP.

I look forward to talking with you.

[Signature]
We hope you are well. Just wondering if you could give us a quick update on the pursuit to position the Sub Station on city property north of Schmidt Lake road and fire up the existing GRE lines. It’s been pretty quiet. Have you submitted your plan to the city? Thank you.

Best Regards,
Good afternoon---

Maybe I missed it in the information you have provided, but is it possible to get a list of the addresses that will be affected with Alternative C that seems to be in play now? There looks to be 26 homes along new line routes and 85 homes along the existing 69 kV line that will be re-energized.

Or even if you could let me know if my specific address below will be affected.

Thank you so much for your assistance!
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Thank you so much for the prompt response and the information.

Now, it looks as though the current poles on the south side of our property will remain as is and the lines will simply go live (with some possible tree trimming as needed). I just want to make sure I'm 100% clear on that. I know there was some discussion previously in regards to building much larger poles/structures to harness the wires. Could you please confirm?

Thanks!

On Thu, Dec 8, 2016 at 8:29 AM, Plymouth <Plymouth@xcelenergy.com> wrote:

Thanks for inquiring about your home at [redacted] Alternative C would use an existing line that runs along your southern lot line (see attached map). This power line is not currently connected at its eastern end near I-494. Our proposal would be to connect the line to a new substation near I-494 and use the line as it is. No new lines would be constructed in your neighborhood and any impacts to you and your neighbors would be limited to trimming and possibly removing some of the taller trees within the existing power line easement.

We have tried very hard to accommodate the many public comments received throughout this process. We believe Alternative C is the best way to enhance reliability of the grid while minimizing impacts to Plymouth residents. I'd appreciate knowing what you think of our proposal. If you have time, please let us know.

Thanks
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That would be a good idea as a start to all of this, but as you can imagine, I have many other questions needing to be answered as does our home association of 85 homes. As well as, the other homeowners who will be affected.

Let me know some dates and times that would work for you and your team and we will pick one.

I have attached my info that has been asked both at the first round of this many years ago as well as now.

If you and your team could give detailed info, but not technical, in layman’s terms that I and others will understand, that would be great. I’ll then forward your info to them.

7-23-16—sent to

Dear City Council Members,

I am one of the MANY homeowners that is finding themselves yet ONCE again in a battle with Xcel regarding Power Lines.
It appears to be pretty much the same battle we ALL FOUGHT in years past and thought that it was a DONE deal.

NO, that is NOT the case from all the info that has and is occurring.

Please HELP ALL of us get the BEST for not only OUR homes, but the City’s VALUES as well.
For what Xcel does will not only affect our individual HOME VALUES, but those of the cities.
NOT to mention the land appeal, wet lands etc.

With that being said, I am asking you to DENY Xcel ALL of their options that Yet ONCE AGAIN pit neighbor against Neighbor.
That should NOT even be in the consideration if you read the many options that we presented in their first attempt and one below.

They also have given what appears to be not reliable health studies vs ones we have provided.
We need you to connect with ALL the Homeowner associations that run with ALL of Xcel’s options and HELP us FIGHT the good FIGHT. Any information you can give, help, direction is greatly appreciated.

We have spent many hours trying to
1) understand their technical lingo,
2) learn what they are saying
3) what it means to us,
4) asked for specific studies, documentation etc that supports what they say they need and why
5) etc.

But NOTHING has been furnished both in the previous battle and now.

Please follow what has been done, asked and replied below in detail and thanks for all of your help.

In addition, our City Council Members should also hear from you. They are very aware of the situation and I know that a couple of them have mentioned they DO NOT intend to sell the land Xcel currently has marked for the Pomerleau substation. Please email the City here:
Plymouth Public Works Director: dcote@plymouthmn.gov
Plymouth Mayor: kslavik@plymouthmn.gov
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Alarming Updates.

This is an ongoing recap of the topics/questions/concerns etc that ALL of US have and the INFORMATION others have added to each point that they’ve found out talking with Xcel etc.

Let’s NOT ALLOW Xcel to DIVIDE and CONQUER us.
NOR ALLOW Xcel to PIT neighborhood AGAINST neighborhood like they tried last time and now appears to be one in the same this time.
WE need to COME TOGETHER as ONE VOICE, asking the SAME QUESTIONS, offering up the BEST OPTION for the ONLY consideration that DOSEN’T AFFECT any more households!!

As the conversations continue in the NextDoor Holly Creek and other communications, I’ll continue to update this. BUT EACH of YOU need to contact YOUR HOMEOWNERS association and EACH HOUSEHOLD to be vigilant on this.
I copied the flyer provided in the NextDoor Holly Creek about this and distributed to ALL 86 homes in my development Holly Creek last night in the newspaper box’s.
I’d suggest you do the same.

Of all the options projected both in your previous project and this one, why is not the option to take all the CURRENT poles and lines along hwy 55 & 494, and swapped out to larger poles and higher current lines the option to be? This is quite clear that it has a far less personal impact to households than any other, it would yield the lowest amount of households being affected since they are already current lines in place. It maximizes use of existing utility right of ways
and minimizes use of new right of ways. It also impacts wet lands the least since the lines are already currently up versus turning a non-active one on 24/7/365. The hwy 55 poles and lines are quite less and significant than those on hwy 494 and would tell us that they could be beefed up quite easily to give xcel what they need.

What Xcel told about hwy 55 & hyw 494
2 - In the FAQ (http://www.transmission.xcelenergy.com/s...) here’s what they said about the 494/55 option:

Did we look at upgrades that could be routed along Highway 55 and along I-494? If so, why were they not selected?
a. We examined routing lines along Highway 55 and I-494, but as stated above, the new lines must connect with the areas are generally represented by the pad-mounted transformer locations. As a result, placing lines along Highway lines to connect to these pad mounted transformer locations.
The Xcel website how has the EMF information posted. Although they keep saying there is no health impact from the concerned about kids playing in backyards under lines with 400+ milligauss! I encourage people to take a look:
A/B: http://www.transmission.xcelenergy.com/s...
C: http://www.transmission.xcelenergy.com/s...
I've signed the petitions, talked to neighbors, talked to officials...LMK how else I can help!
Best,
Amy

What we need to do:

First,
our homeowner associations need to contact all the other homeowner associations to have them reach out to each homeowner with notice of what is occurring again.
Lisa Annis of NextDoor(dot)com platform in the Rockford/Fernbrook nextDoor page have been meeting and e mailing with Xcel and City Council members for weeks she said.
They oppose ALL options proposed by Xcel and want to hold Xcel accountable to explain why they can’t place upgrades on City or Commercial property and NOT neighborhoods....

Although Xcel has responded to a few of the questions on our petition, they have been very vague in response and have failed to answer some of the questions completely. Please help us oppose a Substation and Power Lines up against our beautiful established neighborhoods negatively impacting our property values by 10-20%.

Please ask them to 1) place upgrades on commercial or city owned property rather than up against neighborhoods and 2) run lines along major roadways. Please sign our petition to oppose their plans today:

Second,
they need to draft a copy, paste and send letter that all of us send to xcel that asks the same questions so that the many will require answering. I have some questions listed below
They have drafted a petition for all to circulate and hired an attorney for their area. We ARE gaining momentum. We hope all will sign the petition: https://www.gopetition.com/petitions/opp...
I realize this may come as no surprise, but our legal team has advised that prior to Xcel's official proposal to the City of Plymouth, our biggest impact will be in the form of emails / letters stating our opposition to Xcel.

Please contact Xcel at:

Tom Hillstrom, Project Lead: thomas.hillstrom@xcelenergy.com
Scott Johnson, Community Relations Manager: scott.d.johnson@xcelenergy.com
cc: Plymouth@XcelEnergy.com

In addition, our City Council Members should also hear from you. They are very aware of the situation and I know that a couple of them have mentioned they DO NOT intend to sell the land Xcel currently has marked for the Pomerleau substation.

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council@plymouthmn.gov

Third,
a constant vigil needs to be prepared for Xcel to try and slip it past for they informed me that they will not be taking the same path as last time, which was have hazard on who was notified, via what means notification was given and timing. First one many years ago was only those about 100ft within said lines so people in my own culdisack did not receive it for they were 105 ft away or so. Meaning that our whole association of 86 homes only a few were notified and not even our board. Will they attempt the same?

The next concern is Xcel has been asked repeatedly by me as well as many others

1) What facts do they have supporting need or projected proposed need or is it just a wish list item with no sound facts
2) At one public hearing I was told by xcel committee that they didn’t have that information amongst the many documents that they brought with them? Really? Wouldn’t you think that would be a main questions/answer that they’d need to be prepared for?

Other questions asked for both previous and now this one;

1) Xcels need analysis that was done previously, I noted that it stated that there was NO immediate need for this and it was for a possible future projected need.
   a) I’d like to know from Xcel what that report found.
   b) What was the immediate need
   c) How many households are in need
   d) Where are those households located
   e) How often were they experiencing no power number of times and number of days without power
   f) All the same questions above for the previous proposal and now for this new one I’d like to have provided by xcel.

2) All the questions below and above are not only pertinent to the past, but to your current process that you are going through. I’d like all answered from past and to the current so they may be compared to see what is common vs different and how they vary in each area.

3) What are the peak temperatures that typically cause overload for both
a) Summer—90 degrees and up?
b) Winter—Zero and below?

4) How many households in the area that you are giving the three options for

5) What is the average number of days in a year that reach the
c) Summer degrees and up
d) Winter degrees and up

6) Over that past 10 years, how many times did xcel loose service for the households based on the summer and winter degrees noted above for each year
   2015
   2014
   2013
   2012
   2011
   2010
   2009
   2008
   2007
   2006

7) How many days on average is service down for the above households and year noted
   2015
   2014
   2013
   2012
   2011
   2010
   2009
   2008
   2007
   2006

8) Are you applying for these options for the above households only.
9) Or, are you applying for a projected growth within these areas?
10) If projected growth within these areas, what are the statistics for growth you are projecting for each area and how did you come to those numbers
11) What year are you projecting those needs to hit critical need

12) If it is suggested that it’s not a cost issue, but a performance issue that drove the route preferences, please provide the performance data calculations you found for each option and info below requested as well.

13) Hollydale Law states that..... provides that the Commission may grant a certificate of need for the project only after finding “by clear and convincing evidence that there is no feasible and available distribution level alternative to the transmission line” with that being said, the questions below would be part of that evidence and are questions that many times have been asked by myself and others at the public hearings, meetings and NOT answered. Please answer them below in a manner that a layman like myself will understand.

   From [REDACTED] after talking with Xcel!!!
   Tom, 2 quick things to your most recent reply.
1 - [Redacted] informed me that Xcel does NOT fall under the Hollydale law with the proposed alternatives and will NOT need to go through the PUC process this time (the FAQ confirms that), so what the "process" looks like this time is quite unclear other than that they will "submit a proposal to the city for consideration" because city permitting is needed.

14) In addition, there would not be the cost to excel and loss to the home owners for any new lines or unused lines to be activated after years of nonuse for growth to be cut away, loss of said growth to homeowners values and any other damage to fences, yards, etc. as well as projected home value loss due to active lines now being present.

15) According to the environmental report—PUC Docket No. E002, ET2/CN-12-113, sway of lines will be 75 feet both ways. Looking at the info below, that means that on those days were sway occurs, those lines will be almost right over my kids play area and our master bedroom on a regular basis.

16) In addition, due to my stage 4 throat cancer and being I have measured the distance from the existing non-working line near our back yard / home and found the following measurements;

Dead center wire to our fence=1 foot
Dead Center wire to our back yard play area that our kids play for many hours=10Feet
Dead center wire to the front of our back yard deck=57 feet
Dead center wire to the back off our home=69 feet

17) This is well below the safe distance noted in all information given to us via announcements, public meetings etc. IE Bell curve shows after 200 feet ...... We are 69 feet or less from them!!!

18) In my previous e mail, I included many research results from; Internal Medicine Journal, California Health Department, British Medical Journal, State of Connecticut, European Countries etc about the impact power lines have on health and you told me you had some others. Please send those to me along with references of what I should be specifically looking at as I did with mine so I may compare them as well.

Below are the health concern article references to support our concerns.

List of Studies for Reference:

- According to a study in the Internal Medicine Journal September 2007;– People who lived within 328 yards of a power line up to the age of five were five times more likely to develop cancer. Those who lived within the same range to a power line at any point during their first 15 years were three times more likely to develop cancer as an adult.

Keep in mind that we live 69 feet within them and I am into my 2nd year of throat cancer

The California Health Department issued their final report on power frequency EMF in October, 2002. This 7-year, $9 million study concluded EMFs can cause some degree of increased risk of childhood leukemia, adult brain cancer, Lou Gehrig’s Disease, and miscarriage. The Evaluation further concludes that magnetic fields may cause suicide and adult leukemia. This study used a standard of causation, which is a more rigorous test than the more common standard that seeks to demonstrate of an association between EMF and many of these diseases.

A major new study which appeared in the June 2005 British Medical Journal, concludes there is a statistical link between EMF from power lines and leukemia. More specifically, this study found that children whose birth address was within 200 meters of an overhead power line had a 70% increased risk of leukemia. Children living 200 to 600 meters away from power lines had a 20% increased risk.
Keep in mind that our back yard is only 5 feet-57 feet from power lines where our three kids and their friends play almost daily.

Most European countries, including the UK and Germany have prohibited the construction of transmission power lines near homes for many years.

The State of Connecticut passed by overwhelming margins in early May 2004 a law that requires power lines to be buried if they pass near residences, schools, hospitals and other sensitive facilities. As a followup, the Connecticut Council study showed that burying long lines is feasible.

...in the past "unintentional" harm was done by power companies as they weren't aware of the health risks whereas currently Xcel would be doing "intentional" harm knowing that the high power lines do cause cancer and are proceeding anyway when they could just as easily leave them where they are and avoid any issue.

Putting these up within our home will or should be considered intentional harm plain and simply.

19) You also stated that you’d provide me with what would happen to my landscape, trees, bushes, fence if you were to use the option that utilizes the line in my back yard.
   a) What would be done to my evergreen trees
   b) If trimmed or removed, what would be done to replace with like or other to the height and age that they are
   c) If fence, what would be done to make same all around since sections only may be affected
   d) Etc.

20) Home Value drops significantly with active power lines according to many realtors present at public meetings. What are Xcel’s percentages they found to occur with this so I may compare. Also, does Xcel buy properties that this occurs to and what is the process for that.

From There have to be other major roadways and placements for the substation. I cannot believe it is Hwy. 55 & 494 or nothing. What about along the train tracks, other highways etc. I want them to prove there are not options that will not kill a neighborhood's property value. It's either WE lose 30 million (and that's property value lost in ONE neighborhood, so tally up all neighborhoods along Fernbrook), or THEY spend 30 million for a more expensive alternative not up against a neighborhood!! They don't want to incur the extra cost on their end so their plan is to do this at OUR expense. Unacceptable.

Let's keep the pressure on. I am going to send out another email to our Savannah Association. Now is the time for another influx of letters and emails.

21) Finally, what is the process detailed out that Xcel will take with regards to letting all of the households know what is being proposed and the process in which we can discuss or fight the proposed options or option being decided on by Xcel. How does each homeowner sign up to receive future notifications directly vs hit and miss other public means of notification? We were giving the mail list of all household’s Xcel contacted in the previous process. Can we get that for this one from Xcel?

22) What will the city do to let us know or be a part of this as well. Or what department would we need to contact with regards to all of this. Again, not being an expert, we the general public have no idea of the process or procedures needing to be taken.

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These are just some of the comments, concerns that we shared repeatedly during the first process and having an attorney represent the many different associations.

We look forward to your reply and being kept informed as to the process so our voices may be heard by not only Xcel, but the cities representatives and attorney’s if need be as was last time.

Below is [redacted] from Xcel’s reply to my questions I asked him on phone after he called me and thought you’d be interested in [redacted]

I am still waiting on our engineers to help me answer your question about the maximum distance the wires could be blown toward your house. In the meantime, here are answers to your other questions:

Q. What would be the vegetation management that would occur if the existing line were energized?
A. In your yard the four southernmost spruce would have to be topped. Trees would be trimmed to a natural shape.

EMF Links—again, these are from Xcel, look above to mine in my letter with links that we provided during the 1st project

World Health Organization
http://www.who.int/peh-emf/about/WhatEMF/en/index1.html
“In the area of biological effects and medical applications of non-ionizing radiation approximately 25,000 articles have been published over the past 30 years. Despite the feeling of some people that more research needs to be done, scientific knowledge in this area is now more extensive than for most chemicals. Based on a recent in-depth review of the scientific literature, the WHO concluded that current evidence does not confirm the existence of any health consequences from exposure to low level electromagnetic fields. However, some gaps in knowledge about biological effects exist and need further research.”

EPA
https://www3.epa.gov/radiation/electric-magnetic-fields.html
“There is no clear scientific evidence that electromagnetic fields affect health.”

National Cancer Institute
“No consistent evidence for an association between any source of non-ionizing EMF and cancer has been found.”

I will get you the blow out answer soon.
**Holly Creek Home Owners Association:**

We need you to **email comments to Xcel by next Wednesday, July 13**, about the proposal to re-energize the 69 kV power line that runs along the side of our association. For your convenience, you can copy the letter below into a new email and put your name and street address at the bottom. See directions below.

If you live next to the line, please personalize the letter, including: the distance you live from the line; number and ages of children living with you; if you have health conditions that would be compromised by sleep disturbance. Because Xcel sent EMF charts late, we have been allowed to extend the comment period to July 13.

For information from Xcel on the proposed Plymouth Project, go to:

[http://www.transmission.xcelenergy.com/Projects/Minnesota/Plymouth-Project](http://www.transmission.xcelenergy.com/Projects/Minnesota/Plymouth-Project)

For more information, including links to scientific studies, “like” the Facebook page **Hollydale Project MN** on Facebook.

**PLEASE NOTE:** The sample below is what the Townhome association distributed to their members, and references townhome impact. Please amend as appropriate for your home, and send along

**Letter to email – put your name and street address at the bottom:**  
Subject: **Plymouth Project additional comments**

Email address to send it to: **Plymouth@XcelEnergy.com**

---

I own property in the Holly Creek Homeowners association. I am writing to support either Alternative A or B in the Plymouth Project, or a different alternative that does not run between homes from Hwy 55 to Rockford Road.

Do not re-energize Alternative C.

I have the following concerns regarding Alternative C:

1. **Health:** In our association, 8 homes within 30 feet of the line have bedrooms 20 feet above the ground. During hot weather, when electric demand is highest, these homeowners and their children would be sleeping in 7.5 to 14 mG of EMF, according to Xcel’s calculations. A sleep study published in 1999 (Akerstedt et al. 1997a) shows that sleeping in 10 mG of electromagnetic frequency causes sleep disturbance, resulting in less sleep and less deep, restorative sleep.

   Sleep disturbance has been shown to:
   - Increase risk of traffic accidents
   - Interferes with ability to learn new information for children and adults
   - Increase the risk for serious health problems such as heart disease, high blood pressure, stroke, diabetes

2. **Precedent for future expansion:** Not only are the EMF levels high with the proposed amps, but future electric demands may lead to even higher levels of current passing through the lines, making EMF levels higher than the current estimates. Allowing the 69 kV line to be re-energized would also set the precedent for larger power lines with taller poles in the future between our homes.
3. **Property value**: A falling re-sale value on those townhomes affects all the homes in our association.

4. **Aesthetics**: The three 45-year-old power line poles in our association are nearing the end of their lifespan. Replacing these poles will necessitate the removal of mature trees to access the poles. The townhome association property will bear the majority of damage and re-planting since it has fewer trees than the adjoining properties. GRE who owns the right-of-way did not keep the right-of-way cleared or trees trimmed during the last 18 years while homes existed here. Changing this now will negatively affect our aesthetics and property values.

5. **Alternative C should not have been proposed as a distribution route solution**: During the Hollydale Project, the existing 69 kV route was a highly disputed route for the 115 kV line. Re-proposing this route as a lower voltage distribution solution ignores the work and comments of hundreds of homeowners to educate Xcel as to the problems with the route. The only major change from 115 kV to 69 kV is the height of the poles. The other issues remain. The existing 69 kV line was planned when this area was still farm land. The route was established without foresight that it might cut through a housing area in the future. Do not perpetuate a narrow outdated route when it should be placed along roadways for easy access for maintenance.

Sincerely,
Your Name
Your Address

**Below is the info that has been requested to be answered and not or has been vague.**

7-23-16—sent to

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First, our homeowner associations need to contact all the other homeowner associations to have them reach out to each homeowner with notice of what is occurring again. Members of NextDoor(dot)com platform in the Rockford/Fernbrook nextDoor page have been meeting and e mailing with Xcel and City Council members for weeks she said.

They oppose ALL options proposed by Xcel and want to hold Xcel accountable to explain why they can’t place upgrades on City or Commercial property and NOT neighborhoods....

Although Xcel has responded to a few of the questions on our petition, they have been very vague in response and have failed to answer some of the questions completely. Please help us oppose a Substation and Power Lines up against our beautiful established neighborhoods negatively impacting our property values by 10-20%.

Please ask them to 1) place upgrades on commercial or city owned property rather than up against neighborhoods and 2) run lines along major roadways. Please sign our petition to oppose their plans today:

Second, they need to draft a copy, paste and send letter that all of us send to xcel that asks the same questions so that the many will require answering. I have some questions listed below

They have drafted a petition for all to circulate and hired an attorney for their area. We ARE gaining momentum. We hope all will sign the petition: https://www.gopetition.com/petitions/opp...

I realize this may come as no surprise, but our legal team has advised that prior to Xcel's official proposal to the City of Plymouth, our biggest impact will be in the form of emails / letters stating our opposition to Xcel. Please contact Xcel at:

Tom Hillstrom, Project Lead: thomas.hillstrom@xcelenergy.com
Scott Johnson, Community Relations Manager: scott.d.johnson@xcelenergy.com
cc: Plymouth@XcelEnergy.com

In addition, our City Council Members should also hear from you. They are very aware of the situation and I know that a couple of them have mentioned they DO NOT intend to sell the land Xcel currently has marked for the Pomerleau substation.

Please email the City here:
Plymouth Public Works Director: dcole@plymouthmn.gov
Plymouth Mayor: kslavik@plymouthmn.gov
Jim Prom Ward 4 (our Ward): jim@plymouthmn.gov
Jim Willis, Member at Large: jwillis@plymouthmn.gov
Judy Johnson, Ward 1: jjohnson@plymouthmn.gov
Nancy Carroll: ncarroll@plymouthmn.gov
others:
jwosje@plymouthmn.gov
mbeard@plymouthmn.gov
council@plymouthmn.gov

Third,
a constant vigil needs to be prepared for Xcel to try and slip it past for they informed me that they will not be taking the same path as last time, which was have hazard on who was notified, via what means notification was given and timing. First one many years ago was only those about 100ft within said lines so people in my own culdisack did not receive it for they were 105 ft away or so. Meaning that our whole association of 86 homes only a few were notified and not even our board. Will they attempt the same?

The next concern is xcel has been asked repeatedly by me as well as many others
3) What facts do they have supporting need or projected proposed need or is it just a wish list item with no sound facts
4) At one public hearing I was told by xcel committee that they didn’t have that information amongst the many documents that they brought with them? Really? Wouldn’t you think that would be a main questions/answer that they’d need to be prepared for?

Other questions asked for both previous and now this one;
23) Xcels need analysis that was done previously, I noted that it stated that there was NO immediate need for this and it was for a possible future projected need.
   g) I’d like to know from Xcel what that report found.
   h) What was the immediate need
   i) How many households are in need
   j) Where are those households located
   k) How often were they experiencing no power number of times and number of days without power
   l) All the same questions above for the previous proposal and now for this new one I’d like to have provided by xcel.

24) All the questions below and above are not only pertinent to the past, but to your current process that you are going through. I’d like all answered from past and to the current so they may be compared to see what is common vs different and how they vary in each area.

25) What are the peak temperatures that typically cause overload for both
   e) Summer—90 degrees and up?
   f) Winter—Zero and below?

26) How many households in the area that you are giving the three options for

27) What is the average number of days in a year that reach the
    g) Summer degrees and up
    h) Winter degrees and up

28) Over that past 10 years, how many times did xcel loose service for the households based on the summer and winter degrees noted above for each year
   2015
   2014
29) How many days on average is service down for the above households and year noted
2015
2014
2013
2012
2011
2010
2009
2008
2007
2006

30) Are you applying for these options for the above households only.
31) Or, are you applying for a projected growth within these areas?
32) If projected growth within these areas, what are the statistics for growth you are projecting for each area and how did you come to those numbers
33) What year are you projecting those needs to hit critical need

34) If it is suggested that it’s not a cost issue, but a performance issue that drove the route preferences, please provide the performance data calculations you found for each option and info below requested as well.

35) Hollydale Law states that…..”provides that the Commission may grant a certificate of need for the project only after finding “by clear and convincing evidence that there is no feasible and available distribution level alternative to the transmission line” with that being said, the questions below would be part of that evidence and are questions that many times have been asked by myself and others at the public hearings, meetings and NOT answered. Please answer them below in a manner that a layman like myself will understand.

From [redacted] after talking with Xcel!!!
2 quick things to your most recent reply.
1 - [redacted] informed me that Xcel does NOT fall under the Hollydale law with the proposed alternatives and will NOT need to go through the PUC process this time (the FAQ confirms that), so what the "process" looks like this time is quite unclear other than that they will "submit a proposal to the city for consideration" because city permitting is needed.

36) In addition, there would not be the cost to excel and loss to the home owners for any new lines or unused lines to be activated after years of nonuse for growth to be cut away, loss of said growth to homeowners values and any other damage to fences, yards, etc. as well as projected home value loss due to active lines now being present.
37) According to the environmental report—PUC Docket No. E002, ET2/CN-12-113, sway of lines will be 75 feet both ways. Looking at the info below, that means that on those days were sway occurs, those lines will be almost right over my kids play area and our master bedroom on a regular basis.

38) In addition, due to my stage 4 throat cancer and being I have measured the distance from the existing non-working line near our back yard / home and found the following measurements;

- Dead center wire to our fence = 1 foot
- Dead Center wire to our back yard play area that our kids play for many hours = 10 feet
- Dead center wire to the front of our back yard deck = 57 feet
- Dead center wire to the back of our home = 69 feet

39) This is well below the safe distance noted in all information given to us via announcements, public meetings etc. IE Bell curve shows after 200 feet ...... We are 69 feet or less from them!!!

40) In my previous e mail, I included many research results from; Internal Medicine Journal, California Health Department, British Medical Journal, State of Connecticut, European Countries etc about the impact power lines have on health and you told me you had some others. Please send those to me along with references of what I should be specifically looking at as I did with mine so I may compare them as well.

**Below are the health concern article references to support our concerns.**

**List of Studies for Reference:**

- According to a study in the *Internal Medicine Journal September 2007*;– People who lived within 328 yards of a power line up to the age of five were five times more likely to develop cancer. Those who lived within the same range to a power line at any point during their first 15 years were three times more likely to develop cancer as an adult.

**Keep in mind that we live 69 feet within them and I am into my 2nd year of throat cancer**

- The California Health Department issued their final report on power frequency EMF in October, 2002. This 7-year, $9 million study concluded EMFs can cause some degree of increased risk of childhood leukemia, adult brain cancer, Lou Gehrig's Disease, and miscarriage. The Evaluation further concludes that magnetic fields may cause suicide and adult leukemia. This study used a standard of *causation*, which is a more rigorous test than the more common standard that seeks to demonstrate of an *association* between EMF and many of these diseases.

- A *major new study* which appeared in the June 2005 British Medical Journal, concludes there is a statistical link between EMF from power lines and leukemia. More specifically, this study found that children whose birth address was within 200 meters of an overhead power line had a 70% increased risk of leukemia. Children living 200 to 600 meters away from power lines had a 20% increased risk.

**Keep in mind that our back yard is only 5 feet-57 feet from power lines where our three kids and their friends play almost daily**

- Most European countries, including the UK and Germany have prohibited the construction of transmission power lines near homes for many years.

- The State of Connecticut passed by overwhelming margins in early May 2004 a law that requires power lines to be buried if they pass near residences, schools, hospitals and other sensitive facilities. As a followup, the Connecticut Council study showed that *burying long lines is feasible*
...in the past "unintentional" harm was done by power companies as they weren't aware of the health risks whereas currently Xcel would be doing "intentional" harm knowing that the high power lines do cause cancer and are proceeding anyway when they could just as easily leave them where they are and avoid any issue.

**Putting these up within our home will or should be considered intentional harm plain and simply.**

41) You also stated that you'd provide me with what would happen to my landscape, trees, bushes, fence if you were to use the option that utilizes the line in my back yard.
   c) What would be done to my evergreen trees
   f) If trimmed or removed, what would be done to replace with like or other to the height and age that they are
   g) If fence, what would be done to make same all around since sections only may be affected
   h) Etc.

42) Home Value drops significantly with active power lines according to many realtors present at public meetings. What are Xcel's percentages they found to occur with this so I may compare. Also, does Xcel buy properties that this occurs to and what is the process for that.

From [Name]! There have to be other major roadways and placements for the substation. I cannot believe it is Hwy. 55 & 494 or nothing. What about along the train tracks, other highways etc. I want them to prove there are not options that will not kill a neighborhood's property value. It's either WE lose 30 million (and that's property value lost in ONE neighborhood, so tally up all neighborhoods along Fernbrook), or THEY spend 30 million for a more expensive alternative not up against a neighborhood!! They don't want to incur the extra cost on their end so their plan is to do this at OUR expense. Unacceptable.

Let's keep the pressure on. I am going to send out another email to our Savannah Association. Now is the time for another influx of letters and emails.

43) Finally, what is the process detailed out that Xcel will take with regards to letting all of the households know what is being proposed and the process in which we can discuss or fight the proposed options or option being decided on by Xcel. How does each homeowner sign up to receive future notifications directly vs hit and miss other public means of notification? We were giving the mail list of all household's Xcel contacted in the previous process. Can we get that for this one from Xcel?

44) What will the city do to let us know or be a part of this as well. Or what department would we need to contact with regards to all of this. Again, not being an expert, we the general public have no idea of the process or procedures needing to be taken.

These are just some of the comments, concerns that we shared repeatedly during the first process and having an attorney represent the many different associations.

We look forward to your reply and being kept informed as to the process so our voices may be heard by not only Xcel, but the cities representatives and attorney's if need be as was last time.

---

Below is [Name] from Xcel's reply to my questions I asked him on phone after he called me and thought you'd be interested in
I am still waiting on our engineers to help me answer your question about the maximum distance the wires could be blown toward your house. In the meantime, here are answers to your other questions:

Q. What would be the vegetation management that would occur if the existing line were energized?
A. In your yard the four southernmost spruce would have to be topped. Trees would be trimmed to a natural shape.

EMF Links—again, these are from Xcel, look above to mine in my letter with links that we provided during the 1st project

World Health Organization
http://www.who.int/peh-emf/about/WhatisEMF/en/index1.html
“In the area of biological effects and medical applications of non-ionizing radiation approximately 25,000 articles have been published over the past 30 years. Despite the feeling of some people that more research needs to be done, scientific knowledge in this area is now more extensive than for most chemicals. Based on a recent in-depth review of the scientific literature, the WHO concluded that current evidence does not confirm the existence of any health consequences from exposure to low level electromagnetic fields. However, some gaps in knowledge about biological effects exist and need further research.”

EPA
https://www3.epa.gov/radtown/electric-magnetic-fields.html
“There is no clear scientific evidence that electromagnetic fields affect health.”

National Cancer Institute
“No consistent evidence for an association between any source of non-ionizing EMF and cancer has been found.”

I will get you the blow out answer soon.

Holly Creek Home Owners Association:

We need you to email comments to Xcel by next Wednesday, July 13, about the proposal to re-energize the 69 kv power line that runs along the side of our association. For your convenience, you can copy the letter below into a new email and put your name and street address at the bottom. See directions below.

If you live next to the line, please personalize the letter, including: the distance you live from the line; number and ages of children living with you; if you have health conditions that would be compromised by sleep disturbance. Because Xcel sent EMF charts late, we have been allowed to extend the comment period to July 13.
For information from Xcel on the proposed Plymouth Project, go to:

http://www.transmission.xcelenergy.com/Projects/Minnesota/Plymouth-Project

For more information, including links to scientific studies, "like" the Facebook page Hollydale Project MN on Facebook.

PLEASE NOTE: The sample below is what the Townhome association distributed to their members, and references townhome impact. Please amend as appropriate for your home, and send along

Letter to email – put your name and street address at the bottom:
Subject: Plymouth Project additional comments

Email address to send it to: Plymouth@XcelEnergy.com

Tom Hillstrom:

I own property in the Holly Creek Homeowners association. I am writing to support either Alternative A or B in the Plymouth Project, or a different alternative that does not run between homes from Hwy 55 to Rockford Road.

Do not re-energize Alternative C.

I have the following concerns regarding Alternative C:

1. Health: In our association, 8 homes within 30 feet of the line have bedrooms 20 feet above the ground. During hot weather, when electric demand is highest, these homeowners and their children would be sleeping in 7.5 to 14 mG of EMF, according to Xcel’s calculations. A sleep study published in 1999 (Akerstedt et al. 1997a) shows that sleeping in 10 mG of electromagnetic frequency causes sleep disturbance, resulting in less sleep and less deep, restorative sleep.

   Sleep disturbance has been shown to:
   - Increase risk of traffic accidents
   - Interfere with ability to learn new information for children and adults
   - Increase the risk for serious health problems such as heart disease, high blood pressure, stroke, diabetes

2. Precedent for future expansion: Not only are the EMF levels high with the proposed amps, but future electric demands may lead to even higher levels of current passing through the lines, making EMF levels higher than the current estimates. Allowing the 69 kV line to be re-energized would also set the precedent for larger power lines with taller poles in the future between our homes.

3. Property value: A falling re-sale value on those townhomes affects all the homes in our association.

4. Aesthetics: The three 45-year-old power line poles in our association are nearing the end of their lifespan. Replacing these poles will necessitate the removal of mature trees to access the poles. The townhome association property will bear the majority of damage and re-planting since it has fewer trees than the adjoining properties. GRE who owns the right-of-way did not keep the right-of-way cleared or trees trimmed during the last 18 years while homes existed here. Changing this now will negatively affect our aesthetics and property values.

5. Alternative C should not have been proposed as a distribution route solution: During the Hollydale Project, the existing 69 kV route was a highly disputed route for the 115 kV line. Re-proposing this route as a lower voltage distribution solution ignores the work and comments of hundreds of homeowners to educate Xcel as to the
problems with the route. The only major change from 115 kV to 69 kV is the height of the poles. The other issues remain. The existing 69 kV line was planned when this area was still farm land. The route was established without foresight that it might cut through a housing area in the future. Do not perpetuate a narrow outdated route when it should be placed along roadways for easy access for maintenance.

Sincerely,
Your Name
Your Address
I understand that you are aware of our proposal to go ahead with Alternative C. I wanted to connect with you to see if there is anything we can do to help you understand the proposal or answer any questions you might have. We’d be happy to meet with you at your back yard where we could look at the existing line. I could bring our engineers to talk about wire movement in wind, our vegetation management people can answer questions about tree trimming and/or we could bring our EMF expert.

Please let me know if you’d like to meet or if there is anything else we can do.
From: [Redacted]
Sent: Thursday, December 08, 2016 4:25 PM
To: [Redacted]
Subject: RE: Xcel Proposal

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Yes I am here on wed 12-14-16 during business hours

What time will you be here to discuss proposal etc.
Hi Tom,

Are you available during business hours? If so, next Wednesday seems to work for us. Would next Wednesday afternoon (Dec 14) work for you?

That would be a good idea as a start to all of this, but as you can imagine, I have many other questions needing to be answered as does our home association of 85 homes.

As well as, the other homeowners who will be affected.

Let me know some dates and times that would work for you and your team and we will pick one.

I have attached my info that has been asked both at the first round of this many years ago as well as now.
If you and your team could give detailed info, but not technical, in layman’s terms that I and others will understand, that would be great.
I’ll then forward your info to them.
Holly Creek Home Owners Association:

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http://www.transmission.xcelenergy.com/Projects/Minnesota/Plymouth-Project

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Email address to send it to: Plymouth@XcelEnergy.com

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5. **Alternative C should not have been proposed as a distribution route solution:** During the Hollydale Project, the existing 69 kV route was a highly disputed route for the 115 kV line. Re-proposing this route as a lower voltage distribution solution ignores the work and comments of hundreds of homeowners to educate Xcel as to the problems with the route. The only major change from 115 kV to 69 kV is the height of the poles. The other issues remain. The existing 69 kV line was planned when this area was still farm land. The route was established without foresight that it might cut through a housing area in the future. Do not perpetuate a narrow outdated route when it should be placed along roadways for easy access for maintenance.

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Your Address
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Please let me know if you’d like to meet or if there is anything else we can do.
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I'll be here

On Dec 14, 2016, at 8:29 AM, Plymouth <Plymouth@xcelenergy.com> wrote:

I'm confirming that me and a few other folks will arrive at your house at 1:00. I plan on bringing our experts on vegetation management, EMF, line design and real estate. I think we'll be able to answer all of your questions.

Thanks for taking the time to talk with us.

XCEL ENERGY SECURITY NOTICE: This email originated from an external sender. Exercise caution before clicking on any links or attachments and consider whether you know the sender. For more information please visit the Phishing page on XpressNET.

Yes I am here on wed 12-14-16 during business hours
What time will you be here to discuss proposal etc.
From: [redacted]
Sent: Thursday, December 08, 2016 1:25 PM
To: Proposal

Are you available during business hours? If so, next Wednesday seems to work for us. Would next
Wednesday afternoon (Dec 14) work for you?

From: [redacted]
Sent: Thursday, December 08, 2016 9:35 AM
To: Hillstrom, Thomas G
Subject: [redacted]

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That would be a good idea as a start to all of this, but as you can imagine, I have many other questions
needing to be answered as does our home association of 85 homes.
As well as, the other homeowners who will be affected.

Let me know some dates and times that would work for you and your team and we will pick one.

I have attached my info that has been asked both at the first round of this many years ago as well as
now.

If you and your team could give detailed info, but not technical, in layman’s terms that I and others will
understand, that would be great.
I’ll then forward your info to them.
Re: Plymouth project web site

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Thank you for taking the time to meet with us today - it was much appreciated! I have a much deeper understanding of WHY the project is being proposed along Alt C, and why 494/55 wasn’t proposed. I dearly wish it were a more viable option...

As I mentioned, I think it would be helpful to arrange a meeting with the West Branch neighborhood (east of Dunkirk, west of Vicksburg) so that we can better understand the impacts, the distance from our houses to the lines, and the EMF. My main concern remains the little kids who play in the backyards when the lines are humming along at peak capacity in July. (And all the trees!)

I can work to organize the meeting, but it’s not likely we can pull something together before the holidays. I’ll start contacting folks, and circle back to get some dates from your end.

Thanks

----- Original Message -----  

Thank you for taking the time to meet with us this afternoon. As promised, I’m sending you links to different documents/information on the Plymouth project web site.
Plymouth project home page: http://www.transmission.xcelenergy.com/Projects/Minnesota/Plymouth-Project

Detailed decision document for Alternative C:

FAQs (updated through 11/23/2016):
http://www.transmission.xcelenergy.com/staticfiles/microsites/Transmission/Files/PDF/Projects/MN/MN-Plymouth-Project-FAQS.pdf

Plymouth project engineering study (posted on web site on 6/1/2016):

Direct mail open house invitation from May:
http://www.transmission.xcelenergy.com/staticfiles/microsites/Transmission/Files/PDF/Projects/MN/Plymouth-mail-piece.pdf

All public comments received (two documents/we removed names to protect the privacy of individuals):
http://www.transmission.xcelenergy.com/staticfiles/microsites/Transmission/Files/PDF/Projects/MN/MN-Plymouth-project-comment-summary-pt-1.pdf and

I hope this information is helpful.
Re: Xcel Power Upgrade Status

XCEL ENERGY SECURITY NOTICE: This email originated from an external sender. Exercise caution before clicking on any links or attachments and consider whether you know the sender. For more information please visit the Phishing page on XpressNET.

Thank you for your prompt and thorough response. We look forward to continuing to work with you and the City throughout this process.

On Monday, December 19, 2016, [Redacted] wrote:

Thanks for contacting us and letting us know your concerns. I hope our outreach is not causing conflicts between neighborhoods. Our process relies on presenting various options and getting feedback before decisions are made. We believe this public feedback step is important in finding a solution that minimizes impacts to people. We will continue to communicate and meet with the community to help explain our proposal.

We have not yet filed and application for a conditional use permit. We anticipate this filing to occur in January.
3. Providing an agreement with the City that, if alternative C is constructed, we would never propose to upgrade the 69 kV line to a higher voltage in the future.

I hope I have answered your questions. As always, feel free to contact me again with these or any other concerns.

---

**XCEL ENERGY SECURITY NOTICE**: This email originated from an external sender. Exercise caution before clicking on any links or attachments and consider whether you know the sender. For more information please visit the Phishing page on XpressNET.
We understand the planning for Xcel's upgrades to our power infrastructure continue. According to the timeline on the Plymouth Power Upgrade Project page, Xcel should be filing their request for a conditional use permit and begin negotiations for land purchase with the city of Plymouth for Pomerleau Lake Substation. Could you please provide us with a status of this milestone? We support building the substation North of Schmidt Lake road because this location has the lowest impact to Plymouth Parks, wetlands and neighborhood property values. While we understand utilizing existing lines has less of an impact, we remain concerned that re-energizing the 69 kV lines may negatively impact property values and aesthetics of the homes in the local area. There may be a growing rift between neighborhoods and that is unfortunate and unhealthy.

Regarding the plan for distribution lines. It is not totally clear why running lines along 494 and 55 is not the best option. Alternatively, is it possible to bury lines along Fernbrook during the planned 2018 road construction project like was done with the Vicksburg project? I understand the current plan is to simply resurface Fernbrook, but as a regular user of this road, it seems rebuilding may be advisable due to the current condition and expected increased traffic levels.

Thank you for your time, energy and representation in support of this community.

We look forward to your response.
Thank you for the fast response. Ideally NO neighborhood would be impacted to any degree, but I tend to agree this is a solution with the lowest amount of impact. Judy Johnson is keeping us posted on the next meetings. Savannah will be there. :)

Best Regards,

On Dec 19, 2016, at 8:34 AM, [Contact name] wrote:

contacting us and letting us know your concerns. I hope our outreach is not causing conflicts between neighborhoods. Our process relies on presenting various options and getting feedback before decisions are made. We believe this public feedback step is important in finding a solution that minimizes impacts to people. We will continue to communicate and meet with the community to help explain our proposal.

We have not yet filed and application for a conditional use permit. We anticipate this filing to occur in January.

Regarding the idea of distribution lines on Hwy 55 and I-494. This is a variation on Alternative A and it would require additional distribution feeders to be routed to neighborhoods to reach the locations of the pad mounted transformers shown on Alternative A maps. In addition, limited space near the intersection of I-494 at Hwy 55 would require impacts to commercial and residential land. We address this in our Frequently Asked Questions document on the [website here](#) at number 15.

15. Did we look at upgrades that could be routed along Highway 55 and along I-494? If so, why
were they not selected?
a. We examined routing lines along Highway 55 and I-494, but as stated above, the new lines must connect with the existing system in certain load areas. These load areas are generally represented by the pad-mounted transformer locations. As a result, placing lines along Highway 55 and I-494 would not avoid the need to place lines to connect to these pad mounted transformer locations.

Alternative A as currently shown would require lines installed along Fernbrook. According to agreements between Xcel and the City, these lines could be buried if the City were willing to pay the additional cost of burying compared to overhead. This possibility was considered when we compared the various alternatives. In our view, even with the buried lines on Fernbrook, Alternative C is superior because it relies on facilities that are already in place. Using facilities that already exist is the best way to address the concerns you raise about aesthetics.

Regarding property values, our proposals rely on utilizing existing facilities and installing new distribution lines in mostly non-residential areas. A reliable electric delivery system is necessary infrastructure to support all of our neighborhoods. We do not believe that the presence of electric distribution lines affects property values in a negative way.

The 69 kV line that would be utilized in Alternative C is already in place. Our plan is to use the line in its current state without upgrading the voltage or changing the poles. We are working with landowners along this line in the following ways:

1. Evaluating each parcel with homeowners for vegetation management and minimizing any tree trimming or removal that will occur.
2. Where trees must be significantly trimmed or removed, providing a mitigation fund to assist with compatible landscaping.
3. Providing an agreement with the City that, if alternative C is constructed, we would never propose to upgrade the 69 kV line to a higher voltage in the future.

I hope I have answered your questions. As always, feel free to contact me again with these or any other concerns.
We understand the planning for Xcel's upgrades to our power infrastructure continue. According to the timeline on the Plymouth Power Upgrade Project page, Xcel should be filing their request for a conditional use permit and begin negotiations for land purchase with the city of Plymouth for Pomerleau Lake Substation. Could you please provide us with a status of this milestone? We support building the substation North of Schmidt Lake road because this location has the lowest impact to Plymouth Parks, wetlands and neighborhood property values. While we understand utilizing existing lines has less of an impact, we remain concerned that re-energizing the 69 kV lines may negatively impact property values and aesthetics of the homes in the local area. There may be a growing rift between neighborhoods and that is unfortunate and unhealthy.

Regarding the plan for distribution lines. It is not totally clear why running lines along 494 and 55 is not the best option. Alternatively, is it possible to bury lines along Fernbrook during the planned 2018 road construction project like was done with the Vicksburg project? I understand the current plan is to simply resurface Fernbrook, but as a regular user of this road, it seems rebuilding may be advisable due to the current condition and expected increased traffic levels.

Thank you for your time, energy and representation in support of this community.

We look forward to your response.
From: December 17, 2016 10:02 PM
To: Plymouth
Subject: Re: Plymouth MN Area Electric Upgrade

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Sorry for the delayed response, but I wanted to make sure to get you my feedback.

While I can't speak for everyone, I am very pleased with this option. I am very relieved that no huge new structures will be built on the south edge of my property and am excited about the improved reliability we hopefully will see from this project. In addition, while I'm not overly concerned about any potential health issues from power lines, I guess it is a positive that the lower kV option will be used. Seems like a win-win all around if you ask me.

We moved to Plymouth 4 years ago and have been extremely disappointed with the overall performance and reliability of our power, so I am very hopeful this will greatly improve the reliability in our neighborhood.

Thank you so much for the information.

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Dec 8, 2016 at 9:55 AM, Plymouth <Plymouth@xcelenergy.com> wrote:

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You are correct. Our proposal is to use the existing line as is. No larger or higher voltage structures are proposed. As part of our City permitting process for the new substation, they have asked us to agree to limit the existing line to its current voltage. That means if this proposal goes forward, we will never propose the higher voltage structures on this line in the future.
Good morning

Thank you so much for the prompt response and the information.

Now, it looks as though the current poles on the south side of our property will remain as is and the lines will simply go live (with some possible tree trimming as needed). I just want to make sure I'm 100% clear on that. I know there was some discussion previously in regards to building much larger poles/structures to harness the wires. Could you please confirm?

Thanks!
Thanks for inquiring about your home at [redacted]. Alternative C would use an existing line that runs along your southern lot line (see attached map). This power line is not currently connected at its eastern end near I-494. Our proposal would be to connect the line to a new substation near I-494 and use the line as it is. No new lines would be constructed in your neighborhood and any impacts to you and your neighbors would be limited to trimming and possibly removing some of the taller trees within the existing power line easement.

We have tried very hard to accommodate the many public comments received throughout this process. We believe Alternative C is the best way to enhance reliability of the grid while minimizing impacts to Plymouth residents. I’d appreciate knowing what you think of our proposal. If you have time, please let us know.

Thanks

From: [redacted]
Sent: Wednesday, December 07, 2016 4:13 PM
To: Plymouth
Subject: Plymouth MN Area Electric Upgrade

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Good afternoon---

Maybe I missed it in the information you have provided, but is it possible to get a list of the addresses that will be affected with Alternative C that seems to be in play now? There looks to be 26 homes along new line routes and 85 homes along the existing 69 kV line that will be re-energized.

Or even if you could let me know if my specific address below will be affected.

Thank you so much for your assistance!