

**Gentile, Jamie**

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**From:** chris ollson <christopher.ollson@gmail.com>  
**Sent:** Wednesday, February 20, 2019 9:33 AM  
**To:** Wilhelm, Tyler  
**Cc:** Gentile, Jamie; Bruce, Brittany  
**Subject:** Re: OLLSON ATTENDANCE NEEDED - March 18th and March 20th

**CAUTION - EXTERNAL EMAIL**

I'll be there

Sent from my iPhone

On Feb 20, 2019, at 7:11 AM, Wilhelm, Tyler <[Tyler.Wilhelm@nexteraenergy.com](mailto:Tyler.Wilhelm@nexteraenergy.com)> wrote:

Chris,

I meant to reach out to you earlier about your involvement at our grant County CUP hearing and our PUC hearing in South Dakota.  
Please confirm your availability in SD for March 18<sup>th</sup> (CUP hearing) and March 20<sup>th</sup> (PUC hearing).

Regards,

**Tyler Wilhelm**  
Project Manager  
NextEra Energy Resources, LLC  
700 Universe Boulevard  
Juno Beach, FL 33408  
Office: (561) 694-3193  
[Tyler.Wilhelm@nee.com](mailto:Tyler.Wilhelm@nee.com)

<image001.jpg>

**Gentile, Jamie**

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**From:** chris ollson <christopher.ollson@gmail.com>  
**Sent:** Wednesday, February 13, 2019 1:33 PM  
**To:** Gentile, Jamie  
**Subject:** Re: Crowned Ridge - Cattle Ridge

CAUTION - EXTERNAL EMAIL

Hey  
Just a thought...  
It would be pretty easy for Jay to just extract the turbines and receptors for cattle ridge and put a clean report together for sound and SF...  
May avoid the confusion

Sent from my iPhone

**Gentile, Jamie**

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**From:** chris ollson <christopher.ollson@gmail.com>  
**Sent:** Monday, January 28, 2019 4:25 PM  
**To:** Gentile, Jamie  
**Subject:** Fwd: Grant County Submission  
**Attachments:** OEHM Wind Turbine Grant Ordinance Jun8.pdf

**CAUTION - EXTERNAL EMAIL**

Here is the email I sent you June 8 with the attachment

----- Forwarded message -----

**From:** **chris ollson** <[christopher.ollson@gmail.com](mailto:christopher.ollson@gmail.com)>  
**Date:** Fri, Jun 8, 2018 at 3:33 PM  
**Subject:** Grant County Submission  
**To:** Gentile, Jamie <[Jamie.Gentile@nexteraenergy.com](mailto:Jamie.Gentile@nexteraenergy.com)>, Wilhelm, Tyler  
 <[Tyler.Wilhelm@nexteraenergy.com](mailto:Tyler.Wilhelm@nexteraenergy.com)>, Miles Schumacher <[mschumacher@lynnjackson.com](mailto:mschumacher@lynnjackson.com)>

See attached the Grant County paper.

Jamie as discussed I used the language from the ordinance Miles has. This is what I had for the APEX filing but it was also before the Jan 2018 consolidation. I think it would be good at somepoint soon to make sure this is not the language they are starting from. I think Luke's company may have just cut and paste wrong.

So I recommended that if they wanted to make minor changes to go to 1500 ft from non-participating, 1000 ft from participating, clarify that property line is non-participating, add in shadow flicker, change to edge of ROW instead of center line, removing "constructive interference" from sound, I recommend taking a look at Table 1 on pg 3 before sending out.

I have cancelled next week.

Jamie if you could forward to the county when ready it would be appreciated.

Chris

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**Christopher Ollson, Ph.D.**  
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**OLLSON**  
 Environmental Health Management

--

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**Gentile, Jamie**

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**From:** chris ollson <christopher.ollson@gmail.com>  
**Sent:** Friday, November 16, 2018 12:21 PM  
**To:** Gentile, Jamie; Wilhelm, Tyler; Bruce, Brittany; Miles Schumacher  
**Subject:** Grant County OEHM Submission  
**Attachments:** OEHM Wind Turbine Grant Ordinance Nov 15.pdf

**CAUTION - EXTERNAL EMAIL**

Jamie

Please find attached OEHM's submission for Grant County WES Requirements proposed ordinance change.  
Chris

--

**Christopher Ollson, Ph.D.**  
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**OLLSON**  
Environmental Health Management

**Gentile, Jamie**

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**From:** chris ollson <christopher.ollson@gmail.com>  
**Sent:** Friday, November 16, 2018 10:05 AM  
**To:** Wilhelm, Tyler; Gentile, Jamie; Miles Schumacher; Bruce, Brittany  
**Subject:** OEHM Updated Letter  
**Attachments:** OEHM Wind Turbine Grant Ordinance Nov 15.docx; OEHM Wind Turbine Grant Ordinance Nov 15.pdf

**CAUTION - EXTERNAL EMAIL**

I have attached the word doc and full PDF for review

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**Christopher Ollson, Ph.D.**  
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cell: [416-456-1388](tel:416-456-1388)

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**Gentile, Jamie**

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**From:** chris ollson <christopher.ollson@gmail.com>  
**Sent:** Thursday, October 25, 2018 2:10 PM  
**To:** Gentile, Jamie  
**Subject:** Re: Crowned Ridge I - Grant County CUP Application

CAUTION - EXTERNAL EMAIL

Can u send me the report and appendices

Sent from my iPhone

On Oct 25, 2018, at 11:58 AM, Gentile, Jamie <[Jamie.Gentile@nexteraenergy.com](mailto:Jamie.Gentile@nexteraenergy.com)> wrote:

Sarah & Jay:

I just got off the phone with Luke and Todd with First District, as they are conducting the review of our Grant County CUP Application. They were asking me to identify the turbines associated with receptors CR1-G252-NP and CR1-G102-NP.

As some background, Luke and Todd are writing their staff report to reflect how our application meets or exceeds the current approved zoning code and how it and where it meets or exceeds the proposed code that is currently being reviewed by the Planning and Zoning Board. The proposed code is recommending a noise policy that is more consistent with how the State of South Dakota has recently reviewed wind farm applications. They would like to say in the write-up that these appear to be the only two turbines that would require any mitigation if we were to comply with the proposed zoning code or recent State of SD sound recommendations. So in short, they were unable to determine which turbines these receptors were attached to, based on the data found in Appendix C: Table of Sound Results.

**Jamie Gentile, AICP**  
**Project Director, Renewable Development**  
**NextEra Energy Resources**  
**Mobile: 561-762-8489**  
**Office: 561-694-3604**

<image001.jpg>

NextEra Energy Resources, LLC  
700 Universe Boulevard  
Juno Beach, FL 33408  
Office: (561) 304-5429  
Cell: (561) 602-3768  
[Tyler.Wilhelm@nee.com](mailto:Tyler.Wilhelm@nee.com)

<image001.jpg>

**Gentile, Jamie**

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**From:** chris ollson <christopher.ollson@gmail.com>  
**Sent:** Friday, July 06, 2018 3:40 PM  
**To:** Wilhelm, Tyler  
**Cc:** Gentile, Jamie; Wells, Kimberly  
**Subject:** Re: Grant County Ordinance - Acoustic/Noise Language

CAUTION - EXTERNAL EMAIL

Tyler

They did submit a noise report to 45 dBA. They did not consider constructive interference. To best of my knowledge everyone has been ignoring that language. I wanted it out of Coddington when the reopened the ordinance and they did. I am hoping Luke will take it out of Grant.

I don't know how you would design to it. It more a post construction that cumulative noise in theory would have to be less than 50 when measuring.

Sent from my iPhone

On Jul 6, 2018, at 2:55 PM, Wilhelm, Tyler <[Tyler.Wilhelm@nexteraenergy.com](mailto:Tyler.Wilhelm@nexteraenergy.com)> wrote:

Chris,

The Grant County ordinance has reference to constructive interference for their 50dBA threshold detailed as such:

*Noise. Noise level shall not exceed 50 dBA, average A-weighted Sound pressure including constructive interference effects at the perimeter of the principal and accessory structures of existing off-site residences, businesses, and building owned and/or maintained by a government entity.*

Do we know if APEX is accounting for constructive interference in their modeling? I know they are taking the stance of siting to 45dBA but wasn't sure if they are accounting for constructive interference.

As an FYI, Geronimo's Cattle Ridge CUP application response to fulfilling ordinance requirements was listed as such:

*Unless other arrangements have been made with specific residents, turbines will be sited the minimum 1,000 feet from residences plus the distance required to comply with the 50 dBA standard. Cattle Ridge will conduct a noise assessment of the Wind Farm to determine the sound levels at receptors within the Wind Farm Project Area.*

Geronimo did not submit a noise report with their application considering it is not a requirement although it is expected at this point from Luke as this is what we did in Codington and will be doing in Grant.

Do we know if APEX submitted a noise report with their application in Grant County and if so, did it account for constructive interference?

Regards,

**Tyler Wilhelm**

Associate Project Manager – Renewable Development

**Gentile, Jamie**

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**From:** chris ollson <[christopher.ollson@gmail.com](mailto:christopher.ollson@gmail.com)>  
**Sent:** Wednesday, September 12, 2018 11:45 AM  
**To:** Wilhelm, Tyler; Gentile, Jamie  
**Subject:** Re: Scheduling conflict

**CAUTION - EXTERNAL EMAIL**

Scheduling resolved. But I'm flying into MSP and driving to Clear Lake. Will arrive around 6. I can do the prep session over the phone from car.

Cheers  
Chris

Sent from my iPhone

On Aug 23, 2018, at 9:13 AM, chris ollson <[christopher.ollson@gmail.com](mailto:christopher.ollson@gmail.com)> wrote:

Guys  
I have a scheduling conflict for the Sept 20th meeting.  
I am trying to sort it out now.  
Chris

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**Christopher Ollson, Ph.D.**  
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Ollson Environmental Health Management  
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**OLLSON**  
Environmental Health Management



On Oct 1, 2018, at 3:10 PM, Wilhelm, Tyler <[Tyler.Wilhelm@nexteraenergy.com](mailto:Tyler.Wilhelm@nexteraenergy.com)> wrote:

All,

I have forwarded the link below which contains the "preliminary" draft to the Grant County wind ordinance.

We have already filed our application under the existing ordinance but as we all know, depending on when final version of the Grant county ordinance is adopted will require strategy on our end on how we will address our siting strategy versus the newly adopted ordinance at our hearing.

Thanks,

**Tyler Wilhelm**  
NextEra Energy Resources

Sent from iPhone

**Gentile, Jamie**

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**From:** chris ollson <christopher.ollson@gmail.com>  
**Sent:** Friday, June 08, 2018 11:37 AM  
**To:** Miles Schumacher; Bryce, Jeffrey  
**Cc:** Gentile, Jamie; Wilhelm, Tyler  
**Subject:** Re: Grant Ordinance - Please Read

In their 2018 update it says Rev 2004....

I think there may have been something more recent that is included in your document and they messed up in the latest carry over.

Again guys I know you are traveling. If you can please send me the version of ordinance you have been using.

Jeff, do you have the Grant County ordinance youve been using

Noise. Noise level shall not exceed 50 dBA, including constructive interference effects at the perimeter of the principal and accessory structures of existing off-site residences, businesses, and buildings owned and/or maintained by a governmental entity property line of existing off-site residences, businesses, and public buildings. [Ord. 2004-1, Rev. 2004-1G]

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**From:** chris ollson [mailto:[christopher.ollson@gmail.com](mailto:christopher.ollson@gmail.com)]  
**Sent:** Friday, June 08, 2018 10:25 AM  
**To:** Miles Schumacher  
**Cc:** Gentile, Jamie; Wilhelm, Tyler  
**Subject:** Re: Grant Ordinance - Please Read

Gotta love Counties

Here is what I pulled off of the Planing and Zoning page  
(<https://grantcounty.sd.gov/countyoffices/pz/ordinances.php>)

<https://grantcounty.sd.gov/photos/downloads/Zoning012518sm.pdf>

**Gentile, Jamie**

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**From:** chris ollson <christopher.ollson@gmail.com>  
**Sent:** Friday, June 08, 2018 11:37 AM  
**To:** Miles Schumacher; Bryce, Jeffrey  
**Cc:** Gentile, Jamie; Wilhelm, Tyler  
**Subject:** Re: Grant Ordinance - Please Read

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**From:** chris ollson [mailto:[christopher.ollson@gmail.com](mailto:christopher.ollson@gmail.com)]  
**Sent:** Friday, June 08, 2018 10:25 AM  
**To:** Miles Schumacher  
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**Subject:** Re: Grant Ordinance - Please Read

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(<https://grantcounty.sd.gov/countyoffices/pz/ordinances.php>)

<https://grantcounty.sd.gov/photos/downloads/Zoning012518sm.pdf>

It is dated Jan 25, 2018. I don't see a date on the one you sent. But it is definitely cleaner and better.

Do we know when it was prepared and which one should I be using?

**From:** chris ollson [mailto:[christopher.ollson@gmail.com](mailto:christopher.ollson@gmail.com)]  
**Sent:** Friday, June 08, 2018 10:07 AM  
**To:** Gentile, Jamie  
**Cc:** Miles Schumacher; Wilhelm, Tyler  
**Subject:** Re: Grant Ordinance - Please Read

The same language is in for the centre line ROW

I don't understand this?

Anyone

Distance from centerline of public right-of-way shall be at least five hundred (500) feet or one hundred ten percent (110%) the height of the wind turbines, whichever distance is greater, two (2)

times the height of the wind turbines, measured from the ground surface to the tip of the blade  
when in a fully vertical position.

On Fri, Jun 8, 2018 at 10:48 AM, Gentile, Jamie <[Jamie.Gentile@nexteraenergy.com](mailto:Jamie.Gentile@nexteraenergy.com)> wrote:

Chris it's on the First District page and the link is on the Grant County Commissioner page.

My thoughts on setback question, yes 110% from ALL property lines and 2 x height from when adjacent to non-participating...it's not clear but I think that is what they are saying.

On the sound question it is measured from the exterior wall of the structure. Knowing Luke and Todd I will assume they will pursue 50dbA from property line in new ordinance and I think we should at the very least say or discuss why that is not an ideal point of measurement. Unless anyone disagrees??

Also Luke and Todd said that public comment is not going to be permitted at this hearing and that it will be more procedural. So I think a full contingent may not be necessary. Miles if you have a second look at the Agenda and let us know your thoughts. I think at the least I will attend and maybe Miles can attend to make sure procedure is being followed or if something unexpected happens we have coverage.

Jamie

Sent from my iPhone

On Jun 8, 2018, at 10:16 AM, chris ollson <[christopher.ollson@gmail.com](mailto:christopher.ollson@gmail.com)> wrote:

CAUTION - EXTERNAL EMAIL

Tyler/Jamie - I think you are traveling but if you get a chance between planes or when you land please take a look.

Two things - 1. I don't see where on the website I can upload anything. Jamie do you know?

2. Some questions on how you are interpreting their current ordinance.

Just want to make sure I am reading Grant County setbacks correct:

2. Setbacks.

c. Distance from any property line shall be at least five hundred (500) feet or one hundred ten percent (110%) the height of the wind turbine, whichever distance is greater, two (2) times the height of the wind turbine, measured from the ground surface to the tip of the blade when in a fully vertical position unless wind easement has been obtained from adjoining property owner.

I believe we are using a 485 ft turbine. So I read the para above to mean:

Participating property lines 110% turbine height

Non-participating property lines 2x total height

Is that how you guys are interpreting? So we are going to be 970 ft from non-participating property lines? Also for noise the paragraph is

10. Noise.Noise level shall not exceed 50dBA, including constructive interference effects at the perimeter of the principal and accessory structures of existing off-site residences, businesses, and buildings owned and/or maintained by a governmental entity property line of existing off-site residences, businesses, and public buildings.

This is crazy confusing to me but I think it means residences not property lines??? But it talks about property lines? Is the NEER interpretation?

So my plan was to say that we recognize that their ordinance is fine. You will in some cases be implementing greater setbacks (i.e. not 1000 ft) that if they want to update it I suggest:

- a. maintain 50 dBA to homes,
- b. setbacks to property lines are fine.
- c. 1500 ft to non-participants
- d. 110% to public road ROW
- e. 30 hours shadow flicker non-participating residences.

Similar approach to Deuel County. We know that they are going to change the ordinance and we can see what we can get by offering something reasonable.

Call if its easier

416-456-1388

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**Christopher Ollson, Ph.D.**

Senior Environmental Health Scientist

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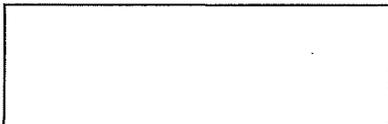
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**Error! Filename not specified.**

Gentile, Jamie

**From:** chris ollson <christopher.ollson@gmail.com>  
**Sent:** Tuesday, September 11, 2018 11:45 AM  
**To:** Wells, Kimberly  
**Cc:** Bruce, Brittany; Miles Schumacher; Sihvola, Michael; Escoto, Joshua; Murphy, Brian J.; Sarah Baer; Gentile, Jamie; Wilhelm, Tyler; Blevins, Michael  
**Subject:** Re: RESPONSE REQUESTED: Crowned Ridge Wind- Grant County CUP app review  
**Attachments:** image001.jpg

CAUTION - EXTERNAL EMAIL

All,  
I understand that the sound/SF report still isn't complete but from this text it looks like the Grant county 50 dBA to the residence is being applied. [REDACTED]

[REDACTED]  
[REDACTED]  
[REDACTED] I recognize this is the local permit and complies with their requirements. [REDACTED]

[REDACTED]  
[REDACTED]  
[REDACTED]  
[REDACTED] egardless if not already contemplated in the Sound/SF report I believe that the tables should be broken up to participating and non-participating residences.

[REDACTED]  
[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]  
[REDACTED]  
[REDACTED]  
[REDACTED]