

STATE OF ILLINOIS)
)SS
COUNTY OF LEE)

In the Matter of the Petition
 of

GSG Repower Wind Farm
Lee County, Illinois

Testimony of Witnesses
Produced, Sworn and
Examined on this 9th day
of May, A.D., 2022
before the Lee County
Zoning Board of Appeals

Present:

Glen Hughes
Craig Buhrow
Rex Meyer
Mike Pratt (via Zoom)
Bruce Forster, Chairman

Alice Henkel, Alternative Energy Coordinator
Dee Duffy, Zoning Enforcement Officer

Honorable Judge Tim Slavin, Facilitator

1 APPEARANCES:

2 LEE COUNTY STATE'S ATTORNEY CHARLES BOONSTRA
3 of the Lee County State's Attorney's Office
309 South Galena Avenue, Suite 30
4 Dixon, Illinois 61021

5 Counsel for the County.

6 ATTORNEY KYLE C. BARRY
7 of the firm of McGuireWoods
One North Old State Capitol Plaza, Suite 410
Springfield, Illinois 62701

8 Counsel for the Applicant.

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EXHIBITS

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Petitioners Exhibit Number 3.	. . .	32.	. . . 32
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1 JUDGE SLAVIN: Okay. Well, good evening,
2 Ladies and Gentlemen. I call out of recess Lee
3 County Zoning Board of Appeals hearing on
4 Petition Number 21-P-1591, GSG Wind, LLC's,
5 request for a Special Use Permit to construct a
6 wind energy conversion system within Lee
7 County -- within, sorry, Lee Center, Sublette
8 and West Brooklyn Townships here in Lee County.

9 In case you somehow lost it but are also
10 somehow able to hear me, the Zoom meeting ID is
11 913-3923-9154. The password is 209840.

12 You can also -- you can also not
13 participate but view and listen to us on
14 YouTube. Go to your browser, www.youtube.com.
15 In the search bar, type "Lee County IL," I-L,
16 short for Illinois, "Zoning Board of Appeals."
17 Don't be concerned with upper- or lower-case
18 letters. Find the session date you want,
19 presumably today, May 9th, and click on it, and
20 you should be seeing and listening to us,
21 although with a bit of a short time delay.

22 I note the presence tonight of the Chair
23 of the Lee County ZBA, Mr. Forster; its Vice
24 Chair, Mr. Buhrow; Mr. Hughes is present;

In Totidem Verbis, LLC (ITV)
815.453.2260

In Totidem Verbis, LLC (ITV)

1 Mr. Meyer is present in person. On Zoom I note
2 the presence of ZBA member Mr. Pratt.

3 Back in the courtroom, the Honorable Dee
4 Duffy is present, as is her able assistant,
5 Ms. Henkel. The State's Attorney, Charlie
6 Boonstra is present, as is Mr. Barry, Counsel
7 for the Petitioner, and three of his client's
8 representatives. Lee County IT is here helping
9 us run the various technological pieces of
10 equipment. Callie, the court reporter, is here,
11 and himself. Making 14 necessaries in person.

12 I see one Interested Party in the
13 courtroom, making 15 people total in the
14 courtroom. There are none in the jury room. On
15 Zoom, there are two attendees: the
16 aforementioned Mr. Pratt and another Interested
17 Party. Makes the total attendance tonight 18
18 people.

19 When we left off last, we were in the
20 midst of the Petitioner presenting evidence.

21 And, Mr. Barry, I'll turn it over to you,
22 and you may continue.

23 MR. BARRY: Thank you, Judge.

24 At this time, I would like to call the

1 next witness for the Petitioner, and that is
2 Ian Brewe. He's going to discuss the sound
3 study.

4 JUDGE SLAVIN: Do you want to step up
5 here, Mr. Brewe, and I will swear you in and
6 then -- oh, that's right, right here. I pushed
7 that chair too far. My fault.

8 (Ian Brewe was duly sworn.)

9 JUDGE SLAVIN: All right. Have a seat.
10 You may inquire, Counsel.

11 MR. BARRY: And before we get started,
12 Mr. Brewe does have a PowerPoint presentation.
13 If we could load that onto the screen, please.

14 IT REPRESENTATIVE: Which one would that
15 be?

16 MR. BARRY: That's going to be the one
17 called Summary of Sound Study.

18 JUDGE SLAVIN: Okay. We're all set.

19 MR. BARRY: Thank you.

20 IAN BREWE,
21 having been duly sworn, was examined and
22 testified as follows:

23 DIRECT EXAMINATION

24 BY MR. BARRY:

1 Q. Mr. Brewe, could you please state your full
2 name for the record.

3 A. Ian Brewe.

4 Q. And could you tell us a little bit about your
5 background?

6 A. Sure.

7 MS. DUFFY: Spelling?

8 JUDGE SLAVIN: Yeah, would you spell it?
9 And these mics are -- you actually have to pull
10 it next to you. You practically have to swallow
11 it, and then I start going like this and then
12 pretty soon you -- so.

13 THE WITNESS: Okay. I-A-N, B-R-E-W-E.

14 MR. BARRY: And could you please move
15 the -- to Slide 3, move the PowerPoint to Slide
16 3? There we go.

17 Q. (By Mr. Barry:) And if you could, tell us a
18 little bit about your background, please,
19 Mr. Brewe.

20 A. Sure. So I am a board-certified member of the
21 Institute of Noise Control Engineering. I have
22 my Master's in -- or that should say B.S. in
23 Mathematics with a Concentration in Physics.
24 That's a typo; not trying to mislead.

1 I have conducted -- done graduate-level
2 coursework in acoustics, and am a full member of
3 the Acoustical Society of America, been
4 performing noise studies and acoustical analysis
5 for over 20 years. I have done projects all
6 over the world.

7 I live here -- or I work here in Illinois,
8 and have done power generation, aviation,
9 transportation, oil and gas, and renewable
10 projects both here in Illinois and globally.

11 I have done numerous wind studies,
12 including, I think, about five here in the state
13 of Illinois.

14 Q. And who is your employer?

15 A. Burns & McDonnell.

16 Q. What's your position with Burns & McDonnell?

17 A. I am a section manager in the environmental
18 studies department.

19 Q. And I think you mentioned that you work in
20 Illinois; is that correct?

21 A. That is correct.

22 Q. Which office do you work out of for Burns &
23 McDonnell?

24 A. Our Chicago office.

1 Q. Okay. And is there anything else you would
2 like to say about Burns & McDonnell? Is there
3 something on the slide?

4 A. Sure. We're a fully-integrated engineering
5 company with construction, environmental
6 services, all facets of engineering. It's kind
7 of amazing what all we do.

8 An employee-owned company with almost
9 85- -- well, probably over 8500 employees now,
10 we're hiring so quickly, and highly ranked in
11 the engineering journals.

12 Q. Okay. Thanks.

13 MR. BARRY: Could you advance the slide,
14 please?

15 Q. (By Mr. Barry:) Mr. Brewe, are you familiar
16 with the GSG Wind Project?

17 A. Yes, I am.

18 Q. And are you familiar with the proposed repower
19 of the project?

20 A. Yes, I am.

21 Q. How are you familiar with the project?

22 A. I have worked on the study. I helped supervise
23 the ambient noise study that was conducted in
24 the area. I also have provided technical review

1 and supervision for the performance of the sound
2 study.

3 Q. And is that sound study Appendix J to the
4 permit application?

5 A. Yes, it is.

6 MR. BARRY: Next slide, please.

7 Q. (By Mr. Barry:) All right. Mr. Brewe, let's
8 walk through the settings. Let's start with the
9 applicant sound rules. Are you familiar with
10 Lee County's -- the Lee County Wind Ordinance's
11 provision relating to noise regulations?

12 A. Yes, I am.

13 Q. And the -- that provision references the
14 Illinois Pollution Control Board regulations
15 relating to noise levels. Are you familiar with
16 the Illinois Pollution Control Board's rules and
17 regulations with respect to sound?

18 A. Yes, I am. I have conducted numerous studies
19 in accordance with that.

20 Q. Okay. Could you briefly describe and explain
21 how those rules work?

22 A. Sure.

23 THE WITNESS: If we could advance to the
24 next slide?

1 JUDGE SLAVIN: (Gesturing.)

2 THE WITNESS: Got to really get in there.

3 JUDGE SLAVIN: There you go. It's hard.

4 A. So the Illinois Pollution Control Board limits
5 noise based on land classification, both of the
6 noise source and the receiver.

7 So here in this example, we have got wind
8 turbines on an agricultural property, which are
9 considered Land Class C, and the impacting
10 residential receivers, which are considered Land
11 Class A.

12 The Control Board has established daytime
13 and nighttime limits, with the nighttime limits
14 being lower than the daytime limits, since most
15 of us sleep and recreate and want quiet time at
16 night.

17 And they limit noise in individual
18 frequency bands. So as you can see up on the
19 slide, we have frequencies ranging from 31 hertz
20 to 8,000 hertz, and each frequency band has an
21 individual numerical limit. As I say, for each
22 frequency band, the nighttime limits are lower,
23 and so for our study we focused on making the
24 project comply with the nighttime limits.

1 Q. (By Mr. Barry:) Thank you.

2 Mr. Brewe, will the repowered -- will the
3 proposed repowered GSG Wind Project be required
4 to comply with the noise limits governed by
5 Illinois Pollution Control Board?

6 A. Yes, it will.

7 Q. And not to jump ahead here, but did the study
8 you worked on conclude that the sound emissions
9 from the proposed repowered GSG Wind Project
10 comply with the Illinois Pollution Control Board
11 limits?

12 A. Yes. The study concluded that as currently
13 designed, the project will -- the repower
14 project will comply with the limits in each
15 frequency.

16 Q. Okay. At this time, I'd like to ask you to
17 walk through the additional slides. And in
18 doing so, if you could please explain the
19 methodology of the step?

20 A. Sure.

21 So, okay, perfect. So first of all, we
22 conducted an ambient sound survey, which is
23 required in the Lee County Ordinance -- Wind
24 Ordinance. The study was conducted in January

1 of this year, from the 12th to the 14th. We had
2 continuous measurements at four different
3 locations that ranged from 33 to 43 hours. We
4 did have decent enough weather conditions during
5 those hours to get good representative data.

6 The quietest one-hour average sound levels
7 ranged between 23 and 36 dBA during that time
8 period.

9 Just to back up a step, dBA is what the
10 human ear basically hears. So when we look at
11 sound levels across all those frequencies, the
12 human ear hears different frequencies
13 differently. So A-weighting is an industry
14 standard method for representing human hearing.

15 So the sound levels we did have in the
16 study consisted of traffic from both local and
17 distant sources, planes, insects, wildlife, wind
18 noise, and some of the existing wind turbines.

19 On the next page, we show the four
20 measurement locations in the blue: MP01, 02,
21 03, and 04. So we tried to cover as much
22 geographic area as we could with those
23 locations.

24 And then in the yellow, you can see the

1 proposed locations of the new repowering wind
2 turbines.

3 MR. BARRY: Next slide, please.

4 THE WITNESS: Next slide.

5 A. The next facet of the sound study that's
6 required by the Zoning Ordinance is noise
7 modeling. So we conducted the noise modeling
8 using CadnaA software. CadnaA is a
9 commercially- available program based on -- that
10 uses ISO, so International Standard of --
11 Organization of Standardization, I should say.

12 Standards for calculating outdoor sound
13 propagation. So this is a program that is used
14 widely throughout the world for these types of
15 projects.

16 It assesses the sound from 31 to
17 8,000 hertz. You know, same as we saw in the
18 Illinois Code. And it was able to look over a
19 very large area, 3 kilometers, 1.9 miles, from
20 the turbines.

21 Next slide.

22 Some of the modeling parameters that were
23 used were, the wind turbine coordinates for the
24 proposed repowering. We have 13 turbines in Lee

1 County. Currently I believe in the existing
2 project there are 19.

3 We have 512 different occupied residences
4 that were modeled in the county.

5 We incorporated terrain to get elevation
6 changes that would affect any of the sound
7 propagation.

8 We included a semi-reflective ground
9 attenuation. Ground attenuation can range as a
10 factor from zero to 1; 1 being most absorbed, to
11 zero being totally reflective. Usually in an
12 agricultural or real-world situation, it's
13 probably closer to that 1. We use 0.5 and a
14 conservative measure of a thousand calculate
15 that.

16 Next page.

17 So the turbines modeled with were the
18 GE 3.4's with a hub height of 98 meters and an
19 overall sound power level of 106.8.

20 GE does provide the individual frequency
21 sound levels for those units. So what we did
22 was, take a look at the worst-case frequency
23 sound level under any condition, different wind
24 speeds and so on and so forth, and assumed the

1 worst case for each frequency band. We add an
2 uncertainty factor of 0.8 decibels to each
3 frequency band, and we assumed that all turbines
4 were operating simultaneously at their maximum
5 sound level.

6 There is also options for those turbines
7 to have noise reduction operations, or NRO, and
8 this allows the turbines to be slowed down to
9 lower the sound level to comply with regulations
10 at the various locations.

11 So throughout the modeling process, there
12 are lots of assumptions that have to go into
13 play, and we have tried to take most of the
14 conservative approaches we can.

15 First of all, there's atmospheric
16 conditions, where, you know, we're going to
17 select a condition where the wind -- the sound
18 is going to travel further, as far as
19 temperature, humidity and so on and so forth.

20 Vegetation, we did not include any
21 reduction for trees or foliage, which often
22 provides quite a bit of sound reduction.

23 We included worst-case directivity
24 factors. The sound is going to emit equally in

1 the loudest way it could in all directions.

2 We assumed a moderate temperature
3 inversion. So there is some reflection from
4 that upper atmosphere.

5 And the next one is always a little bit
6 hard to kind of wrap your head around, but we
7 assume downwinds for every receiver. So the
8 sound carries a little bit better with the wind.
9 So even though it's not a real-world condition,
10 a house to the north or to the east or to the
11 west, we assume they're all downwind at the same
12 time.

13 Again, each octave band was worst-case for
14 the turbine.

15 The uncertainty, as we mentioned earlier.

16 And the ground, as we previously covered.

17 Q. (By Mr. Barry:) So if I can just ask you a
18 question then?

19 A. Of course.

20 Q. In summary then, the assumptions that were made
21 for the inputs into the study include conditions
22 that are either not real-world conditions or are
23 not regularly-occurring real-world conditions;
24 is that correct?

1 A. They are very unlikely conditions to ever
2 occur.

3 Q. And then on top of that, you added eight-tenth
4 of a decibel to each turbine that would
5 otherwise be projected, correct?

6 A. That's correct.

7 Q. So, again, just -- those assumptions were made
8 to give the model a conservative slant?

9 A. Our goal is usually to have our models
10 overpredict the sound levels.

11 So the impacts were modeled at all
12 identified receivers. They are cumulative. So
13 we are looking at, you know, the sound that is
14 emitted not only from the closest turbine but
15 from all turbines combined at any one receiver.

16 Generally speaking, here in Illinois,
17 especially with wind turbines, the 1,000 hertz
18 octave band is the most difficult one to
19 achieve. It's usually the one that drives -- if
20 you get a 1,000 hertz into compliance, most of
21 the other frequency bands fall into place.

22 And the predicted sound levels at each of
23 the nonparticipating residences did comply with
24 the nighttime Illinois Pollution Control Board

1 limits.

2 We did have to apply noise reduction
3 operations on a few of the turbines, which are
4 identified in the sound study. And if any of
5 those turbines were to move or to change
6 slightly, you know, we would update the modeling
7 to verify whether any of those operations need
8 to be in place.

9 Then on the final slide --

10 Q. Before we jump to that one --

11 A. Yup.

12 Q. Just -- again, just wanted to clarify that, per
13 that last bullet, on the bottom bullet on the
14 slide, your study concluded that the turbines --
15 or the repowered GSG Wind Project will comply
16 with the Illinois Pollution Control Board
17 limits? You may have to operate the turbines
18 NRO mode, but the project will comply with those
19 limits; is that correct?

20 A. That is correct.

21 And so the final slide then, this is just
22 a graphical representation of all the turbines
23 that were modeled, and with the goal -- again,
24 the residential receivers in the purple and the

1 lines being the sound contour levels.

2 This is an overall sum of all the
3 frequencies. We did look at individual
4 frequencies, both graphically and numerically,
5 to verify at each frequency, at each residence,
6 the project complies with the Illinois Pollution
7 Control Board limits and the Lee County limits,
8 therefore.

9 I think that concludes my study.

10 JUDGE SLAVIN: All right. Questions.
11 Going around the horn because it's easier for
12 me.

13 Mr. Boonstra?

14 STATE'S ATTORNEY BOONSTRA: No. Thank
15 you.

16 JUDGE SLAVIN: Ms. Henkel?

17 MS. HENKEL: Yes.

18 EXAMINATION

19 BY MS. HENKEL:

20 Q. You did your study on the GE 3.4 model;
21 however, the Petitioner has proposed four
22 different models, this one being one of the
23 smaller ones. Why did you choose this model?

24 A. So for some of the larger ones, the

1 acoustical data was not readily available at the
2 time of the sound study. Once that -- if
3 they -- once a turbine is selected, it would
4 need to, you know, go through an iteration of
5 the model to verify that it was still in
6 compliance and if anything else would have to be
7 changed.

8 MS. HENKEL: Okay. Thank you.

9 JUDGE SLAVIN: Ms. Duffy?

10 MS. DUFFY: No.

11 JUDGE SLAVIN: Mr. Forster?

12 MR. FORSTER: No.

13 JUDGE SLAVIN: Mr. Buhrow?

14 EXAMINATION

15 BY MR. BUHROW:

16 Q. You have the maps there. Are those the
17 locations where the company is assuming the new
18 turbines are going to be put then?

19 A. This is based on the current layout -- or at
20 the time of the study, the most current layout.
21 So if there were to be an adjustment of the
22 locations, they would have to be adjusted in
23 that iteration of the model.

24 Q. Who determines if the noise level is a little

1 too high for some residences? Is that your job
2 to tell them, or do they decide what to do on
3 relocating some?

4 A. Yeah, so it's usually a back-and-forth process
5 where, you know, we'll run the model based on
6 the provided layout and come back and say, you
7 know, We have got 20 residences here that exceed
8 a limit here or there. So we need to make some
9 adjustments, and we'll move things around to the
10 point where we can get everybody into
11 compliance.

12 Q. Do you discuss that with the residents
13 themselves or is it just a company situation?

14 A. It's usually between the developer and the
15 consultant.

16 MR. BUHROW: Okay. Thank you.

17 JUDGE SLAVIN: Mr. Meyer?

18 EXAMINATION

19 BY MR. MEYER:

20 Q. Are the GE 3.4's louder than the current Gamesa
21 G87 generators?

22 A. I do not know the sound levels of the current
23 units. I don't know a whole lot about that
24 previous iteration of the project. So I'm

1 afraid I can't answer that.

2 Q. The sound level and power level on the 3.4, it
3 has 106.8 for your -- on your PowerPoint. Do
4 you know what wind speed that's at?

5 A. So that is kind of one of those conservative
6 factors we looked at, is we look at every --
7 because they provide sound power levels for each
8 frequency at each wind speed up to the cutoff.

9 So we look at -- you know, for example, if
10 500 hertz happens to be louder at 6 miles per
11 hour versus 10, we'll choose the loudest for
12 each frequency.

13 Q. But you don't know what that actually was?

14 A. No. So it may be a mixture of the wind speeds.

15 Q. Okay.

16 A. But it would be probably closer to what the
17 highest wind speed is.

18 MR. MEYER: I have no other questions.

19 JUDGE SLAVIN: Mr. Hughes?

20 MR. HUGHES: Yes, a few questions.

21 EXAMINATION

22 BY MR. HUGHES:

23 Q. Actually, I'm going to follow up on Alice's
24 question first. If you're doing a reiteration

1 of the study with different -- how do we
2 document that? How do we know what's submitted
3 to the County or the County Zoning Administrator
4 for us to identify that?

5 A. Not exactly sure of that process myself. You
6 know, certainly that's -- you know, could be --
7 I don't know, something that could be requested
8 at the time of plan submittal or something like
9 that, final layout.

10 Q. Okay. There is currently 13 planned but up to
11 16 possible. You only did the 13 locations?

12 A. That's correct.

13 Q. Why not consider -- continue to consider the
14 worst-case scenario with the 16?

15 A. Yeah, so if we do go up to 16, again, we would
16 just have to do another iteration there of the
17 study and the model.

18 Q. Okay. And it's indicated 512 occupied
19 residence receptors. Do you have any idea if
20 that would change if there were the 16 turbines?

21 A. Depending on the location of those turbines, it
22 may -- you know, if they're located in a
23 different geographical area, that number may go
24 up.

1 MR. HUGHES: That's all.

2 EXAMINATION

3 BY JUDGE SLAVIN:

4 Q. For a change, my question is very simple.
5 Noise reduction, what's the O? Operation?

6 A. Operation.

7 JUDGE SLAVIN: Thanks.

8 Mr. Pratt?

9 MR. PRATT: Can you hear me good?

10 JUDGE SLAVIN: Yeah.

11 MR. PRATT: Good.

12 EXAMINATION

13 BY MR. PRATT:

14 Q. When you did your ambient sound study, what
15 were the conditions of the windmills up there?
16 Were they running at full capacity? Were they
17 still? Do you know?

18 A. They were in operation. I can't speak
19 specifically to what levels they were operating
20 at, but they were in operation. Although, you
21 know, as any random day, some may not be
22 operating; most were.

23 Q. So now that you have that study, how does that
24 fall with what you're going to expect for the

1 sound level with the new ones? Is it higher --
2 a base level higher?

3 A. We did not run a comparison at those specific
4 measurement points. You know, some of the
5 measurement points were pretty far away from any
6 of the residences or the existing turbines. So
7 we weren't really taking samplings to understand
8 what the existing turbines were putting out but
9 rather what's the existing ambient environment
10 in the area.

11 MR. PRATT: Okay. No other questions.
12 Thanks.

13 JUDGE SLAVIN: All right. Keeping it in
14 the room where it happened, Interested Parties,
15 anybody got a question? The two of you, either
16 of you, raise your hands.

17 All right. Remember, we're a new day. So
18 give us your name and where you live in relation
19 to the proposed project.

20 MS. KITRAL: Lorraine Kitral, 2180
21 Richardson Road. I'll have one directly across
22 from my house. Actually, there's three in a
23 row.

24 JUDGE SLAVIN: Go ahead and ask.

EXAMINATION

BY MS. KITRAL:

Q. So when you put the new windmills up or turbines up and there's a problem with noise, how are we supposed to go about notifying or getting somebody out to look at it?

A. I believe there is a complaint component.

Q. Okay. So that would be a complaint?

A. Correct.

MS. KITRAL: Okay. That's -- no questions.

JUDGE SLAVIN: All right. Sir? Anybody else?

MR. KLEIN: Yes. Doug Klein. I would be an adjacent landowner.

EXAMINATION

BY MR. KLEIN:

Q. And maybe that answers my question there, she did, but is there continuous monitoring of the noise level once they're up?

A. I don't believe there's a requirement in the ordinance for a continuous monitoring.

MR. KLEIN: That's all.

JUDGE SLAVIN: Okay. On Zoom, any

1 Interested Party with a question?

2 Since there's only one Interested Party,
3 if you have a question, say, Yes, I do.

4 MS. MAUCH: Yes, I do, please.

5 JUDGE SLAVIN: Go ahead and ask.

6 MS. MAUCH: This is Mary Doughty Mauch.

7 We own 111 acres three-quarters mile long on
8 Route 251.

9 We intended to put an airfield in and
10 didn't know about the turbines going in the
11 first time, and went up to see the property and
12 there were wind turbines on both ends. So that
13 property value is now --

14 JUDGE SLAVIN: That's a speech. Do you
15 have any questions of this witness?

16 MS. MAUCH: I'm sorry.

17 EXAMINATION

18 BY MS. MAUCH:

19 A. Mr. Brewe stated that the turbines are slowed
20 down if it exceeds sound limits. Who is
21 monitoring the sound limits? You just said that
22 there aren't active monitoring --

23 JUDGE SLAVIN: You can only ask him one
24 question at a time. Just ask him a question. I

1 know it's hard. You're not used to it.

2 Q. (By Ms. Mauch:) Who is monitoring the sound
3 levels to do the slowdown when needed?

4 JUDGE SLAVIN: Bingo.

5 A. So the slowdown would be, or the NRO operation,
6 would be determined prior to by acoustical
7 studies to determine which ones would require
8 that to comply with the IPCB rules.

9 Q. (By Ms. Mauch:) So if the conditions changed
10 from what you did the study on, there is no
11 monitoring then if that sound level is higher;
12 is that correct?

13 A. To the best of my knowledge, there is no
14 monitoring requirement in the County Code.

15 Q. Okay. So you stated that the turbines are
16 slowed down if exceeding sound limits. Well, if
17 the conditions are such that it's exceeding
18 sound limits, how do residents get a slowdown to
19 mitigate the sound?

20 A. That would probably have to go through a
21 complaint system, and that's the best I can
22 answer that question as far as --

23 Q. All right. So you stated that the turbines are
24 slowed down if exceeding sound limits. So in

1 other words, there's not a process in place and
2 there's not monitoring in place to know if
3 they're exceeding the sound limits, correct?

4 MR. BARRY: Okay. Judge, if I can just --
5 it's not an objection, but he didn't say that
6 the turbines will be slowed down if they're
7 violating the limits. He said if the model
8 shows there will be a violation if the machine
9 operates at full capacity, then it will be
10 operated in NRO mode to make sure that it
11 doesn't violate the limits. Because under the
12 Pollution Control Board Rules, the project is
13 not allowed to violate the limits at any time.

14 JUDGE SLAVIN: I'm not sure that's an
15 objection, but based on that, do you want to
16 rephrase your question?

17 MS. MAUCH: No, thank you. I'll save it
18 for the rest of the testimony that's more
19 relevant. Thank you.

20 JUDGE SLAVIN: Okay. Very good. You may
21 step down.

22 THE WITNESS: Thank you very much.

23 JUDGE SLAVIN: I am marking Mr. Brewe's --
24 hard copy of Mr. Brewe's PowerPoint as

1 Petitioner Number 3, and it's submitted.

2 (Petitioner's Exhibit Number 3
3 marked for identification and
4 admitted into evidence.)

5 JUDGE SLAVIN: And you may continue,
6 Mr. Barry.

7 MR. BARRY: Okay. The next witness we'd
8 like to call is Ella Rose.

9 While she's coming up to the stand, if you
10 can please load the second PowerPoint
11 presentation?

12 (Ella Rose was duly sworn.)

13 JUDGE SLAVIN: Have a seat.

14 MR. BARRY: If you would go ahead and move
15 it to the next slide, please.

16 ELLA ROSE,
17 having been duly sworn, was examined and
18 testified as follows:

19 DIRECT EXAMINATION

20 BY MR. BARRY:

21 Q. All right. Good evening, Ms. Rose.

22 A. Good evening.

23 Q. Could you state your name for the record.

24 A. Ella Rose. Spelled, first name, E-L-L-A, last

1 name, R-O-S-E.

2 Q. And could you tell us a little bit about your
3 background, please.

4 A. I am a registered professional engineer in
5 Montana and Missouri. I have eight years of
6 experience in renewable energy projects, ranging
7 from 50 megawatts to 1500 megawatts in size.

8 Q. And who's your employer?

9 A. Burns & McDonnell.

10 Q. What's your position at Burns & McDonnell?

11 A. I am a project manager in our consulting arm
12 for renewable energy projects.

13 Q. And have you prepared shadow flicker and
14 decommissioning studies or been involved in the
15 preparation of such studies for wind projects in
16 Illinois before?

17 A. Yes.

18 Q. Are you familiar with the repower -- or the
19 proposed repower of the GSG Wind Project?

20 A. Yes, I am familiar with the repowered GSG Wind
21 Project, and prepared -- under my direction, a
22 shadow flicker study was prepared, as well as
23 the decommissioning plan for this project.

24 Q. And incidentally, have you worked on any other

1 repowered wind projects before?

2 A. Yes.

3 MR. BARRY: All right. Let's go to the
4 next -- one more. Thank you.

5 Q. (By Mr. Barry:) All right. Ms. Rose, are you
6 familiar with the limitations imposed by Lee
7 County Zoning Code on shadow flicker from wind
8 farms?

9 A. Yes, I am.

10 Q. And can you tell us what limits the County
11 Zoning Code imposes on shadow flicker?

12 A. Generally speaking, shadow flicker is not
13 regulated in any applicable State law or federal
14 law. Lee County Zoning Ordinance generally
15 limits shadow flicker on any nonparticipating
16 residents to 30 hours per year, as well as
17 requests commercially reasonable efforts that
18 you -- to be used to remedy shadow flicker on
19 residences that may be impacted between 10 and
20 30 hours per year, and that is nonparticipating
21 residences.

22 Q. All right. Thank you.

23 And I think you already mentioned this,
24 but did you perform or cause to be performed a

1 shadow flicker study that examined the projected
2 shadow flicker that may result from the
3 operation of wind turbines at the repowered GSG
4 Wind Project?

5 A. Yes, I did.

6 Q. All right. I think you have got some slides
7 that discuss the study's results. So if we can
8 move to the next slide and if you could walk
9 through those.

10 But before we do that, can you tell us in
11 advance what the study concluded?

12 A. Generally the study concluded that of the 512
13 residences modeled in the study, just one was
14 found to have a shadow flicker impact over 30
15 hours per year, and further, that 10 -- that is
16 a nonparticipating residence impact.

17 Further, 10 residences were found to have
18 between 10 and 30 hours per year of shadow
19 flicker as modeled in the study.

20 Q. And is the study you caused to be prepared or
21 prepared Appendix H to the application?

22 A. Yes, it is.

23 Q. Again, if you can please walk through the
24 slides.

1 A. Thank you.

2 So this is a quick overview of shadow
3 flicker. Shadow flicker has to have a couple
4 conditions in order for shadow flicker to
5 actually occur. It occurs when the turbine
6 blades are spinning and pass in front of the
7 sun, creating an alternating light and darkness,
8 perceived as a shadow flicker at a particular
9 residence.

10 Like I said, a couple things need to
11 happen in order for shadow flicker to actually
12 occur. One, it has to be sunny out. Two, the
13 turbine has to be in operation. And there can
14 be no obstructions between the receiver, the
15 residence, in the line of the site.

16 Shadow flicker primarily occurs during
17 certain times of days and certain seasons,
18 primarily when the sun is low in the horizon, as
19 in -- typically in the midwest here, in the
20 winter months, or in the early hours of the
21 morning or in the early hours of evening.

22 Next slide.

23 To perform the study, we use an industry
24 standard modeling platform called WindPRO. It

1 studies the -- or models the sun's path during
2 every minute of the year. And the results of
3 that model are aggregated by the residence for
4 the entire year.

5 Next slide.

6 This is a summary of the modeling
7 parameters and inputs for the study. For Lee
8 County, we modeled 13 wind turbines. That is
9 the GE 3.4-140. As Ian had noted earlier in his
10 testimony, the GE 3.4-140 was the most accurate
11 data we had at the time of studying this layout,
12 and so that is what was utilized as part of the
13 study, and we would have to remodel anything
14 based on that final layout.

15 The residence coordinates are input into
16 the study. There's 512 models. There was a
17 couple residences that were modeled with
18 obstacles, and the remainder of the houses were
19 modeled in "greenhouse mode," and that is that
20 the location is essentially a glass house, so no
21 obstruction to that shadow flicker. It's a more
22 conservative approach.

23 Next slide.

24 The turbine dimensions were included in

1 the study, including a hub height of 98 meters
2 and a rotor diameter of 140 meters.

3 And the turbine operation is a combined
4 factor of the wind data from the site, as well
5 as the wind turbine's power curve.

6 Next slide.

7 As mentioned, 16 residences were modeled
8 using obstacles. That is trees and buildings,
9 anything that would get in the way of the
10 flicker and the residence perceiving that
11 flicker.

12 An initial study was run to identify what
13 residences might be greater than ten hours per
14 year of shadow flicker. And certain residences,
15 based on that study, were modeled with
16 obstacles.

17 Again, terrain inputs include resolution
18 of 10-meter contours based on the USGS National
19 Elevation Dataset. If you have a turbine higher
20 up, if we're looking at that line of sight,
21 those different elevations will impact how much
22 shadow flicker might be perceived at any
23 particular location.

24 Next slide.

1 The flicker relevance and sunshine has a
2 really big impact on this. Flicker is
3 essentially imperceptible at approximately 10
4 rotor diameters, or 1400 meters in this case,
5 and that is 140 meters of the rotor diameter
6 times 10.

7 The sunshine probability, information is
8 utilized to predict if it's sunny enough for
9 shadow flicker to occur. So that sun
10 obstruction needs to be over 20 percent, and the
11 sun angle has to be greater than 3 degrees from
12 the horizon. Less than 3 degrees and the light
13 is diffused and shadow is essentially
14 imperceptible.

15 Next slide.

16 The results of the model are aggregated in
17 WindPRO again by the residences. They're
18 expressed visually and numerically. So we have
19 tabular results at all of the residences
20 modeled. The results of that visually include
21 what we call a butterfly shape, and that is
22 caused by the -- both the predominate wind
23 direction and the position of the sun. So this
24 shape might look a little bit different if it

1 were studied in Florida versus here in Illinois.

2 And this butterfly shape is really
3 important because flicker impacts vary greatly
4 based on the house's location relative to that
5 turbine.

6 In this particular example, this is not a
7 turbine used in the study. This is just a
8 visual example. You can imagine if there was a
9 house directly south of the example here, that
10 it would be a lot less likely to have shadow
11 flicker impact versus if a house was located
12 directly to the east or west of that wind
13 turbine.

14 Next slide.

15 Further results include calendar output,
16 which helps us describe what times of day and
17 times of year the shadow flicker might occur,
18 might be possible to occur at any residence.

19 In this example here, you can see in the
20 early evening and early morning hours is when
21 that shadow flicker is being modeled to occur.
22 The different colors are associated with shadow
23 flicker being perceived by different wind
24 turbines in that particular study for this

1 example.

2 Next slide -- oop. Whoever is doing the
3 slides is very good.

4 So based on the conservative modeling
5 inputs into the study and the 512 residences
6 modeled, as mentioned, we found one
7 nonparticipating residence which was indicated
8 to have greater than 30 hours of shadow flicker
9 per year. It is my understanding that that
10 particular landowner has been consulted and is
11 going to enter into a waiver agreement for the
12 project.

13 Further, there has been ten
14 nonparticipating residences found to potentially
15 experience between 10 and 30 hours per year.

16 Next slide.

17 Regardless of the model results, shadow
18 flicker can be mitigated. Mitigation techniques
19 include micrositing. That is moving the
20 turbines around in location to get that shadow
21 flicker minimized or mitigated. And insulation
22 of blinds, curtains, awnings, planting of trees
23 or vegetation, modeling of the existing
24 obstructions, barns, trees, vegetation, as well

1 as a regulated turbine operation. And regulated
2 turbine operation can be modeled -- that can be
3 controlled based on the wind parameters and
4 direction and sunshine at a particular project,
5 if that's something that the project needs.

6 And that concludes my slides for shadow
7 flicker.

8 Q. (By Mr. Barry:) All right. Are you ready to
9 switch gears and put on your decommissioning
10 hat?

11 A. Yes, I am.

12 Q. All right. So the decommissioning plan for the
13 proposed repower of the GSG Wind Project was
14 prepared under your direction, correct?

15 A. That is correct.

16 Q. And is the decommissioning plan that was
17 prepared under your direction Appendix E to the
18 application materials?

19 A. Yes.

20 Q. Are you familiar with the Lee County Wind
21 Ordinance's provisions relating to
22 decommissioning?

23 A. Yes, I am.

24 Q. Is the decommissioning plan that was prepared

1 under your direction -- and that's Exhibit E to
2 the application -- consistent with Lee County's
3 decommissioning provisions?

4 A. Yes, it is.

5 Q. Okay. I know you have some more slides. These
6 are on decommissioning. So at this time would
7 you please discuss the plan and the methodology
8 you used to prepare it?

9 A. Yes. As mentioned, the Lee County Wind
10 Ordinance does regulate the decommissioning plan
11 to provide guidance to that plan in the
12 Ordinance. Generally speaking, prior to
13 issuance of building permits, a decommissioning
14 plan shall be submitted to the County Zoning
15 Administrator.

16 The facilities shall be removed to a depth
17 of 5 feet below grade.

18 Next slide.

19 This is a summary of the inputs and tools
20 utilized in preparation of the plant. We use a
21 proprietary spreadsheet model that inputs labor
22 costs, equipment rental costs, hauling disposal
23 and scrap values.

24 We take into consideration the wind

1 turbine characteristics from the wind turbine
2 manufacturer, including component weights,
3 dimensions and content, especially metals.

4 And we have discussions on -- with the
5 demolition contractors regarding that plan.

6 Labor and machinery costs are estimated
7 using the RS Means Heavy Construction Cost
8 Index. Costs are indexed to local markets to be
9 more site specific. In this case, LaSalle,
10 Illinois, was used as that cost index.

11 Scrap values are taken as a 12-month
12 trailing average from the American Metal Market
13 Report, and indexed to the nearest trading hub.
14 In this case, Chicago was utilized.

15 And a local company is contacted to
16 estimate landfill tipping charges. In this
17 case, JKS Ventures Landfill was utilized in this
18 study.

19 Next slide.

20 An overview of the decommissioning plan.
21 The equipment -- or the removal includes:

22 Above-grade equipment and structures;

23 And foundations less than 5 feet below
24 grade;

1 Roads, turning radii, crushed rock
2 surfacing or other surface improvements would be
3 removed.

4 Equipment and materials are recycled where
5 possible.

6 Equipment is considered as scrap. No
7 resale value of any equipment is considered as
8 part of the plan, which is a conservative
9 approach.

10 And re-use may be considered where
11 possible. For instance, the crushed rock
12 surfacing may be -- have some value in local
13 projects.

14 The plan considered environmental cleanup
15 and restoration. This might include some
16 potential oil spills that need to be removed per
17 applicable regulations properly.

18 And then the land is restored back to its
19 pre-construction condition. Some surface
20 grading would be performed, and reseeded at the
21 project.

22 Q. Ms. Rose, what is the assumed technique for
23 removal of the equipment that's -- that was
24 addressed by the plan?

1 A. In my next slide, it will show you that. Our
2 decommissioning approach is deconstruction. So
3 for the wind turbines and met tower, a crane and
4 crew would be utilized to remove the turbine
5 blades, nacelles, the turbine towers and the met
6 towers.

7 The blades are cut into manageable-sized
8 pieces and hauled off to a landfill for
9 disposal.

10 Equipment inside the nacelle will be
11 processed onsite and loaded onto trucks for sale
12 as scrap.

13 The wind turbine towers and the met tower
14 would be processed, removed -- deconstructed and
15 removed, processed onsite and loaded onto trucks
16 for sale as scrap.

17 Foundations are removed using a demo crew
18 and a jackhammer to a depth of 5 feet below
19 grade.

20 And the concrete rubble would be loaded
21 into trucks and sent to a landfill for disposal.

22 The roads and roadways would be reclaimed
23 with an excavator, the material loaded into
24 trucks and hauled away for disposal.

1 Again, noting that this is a common
2 material that could be used as reuse elsewhere.

3 Next slide.

4 The electrical collection system that is
5 buried underground connecting between the wind
6 turbines is expected to be buried at least
7 5 feet below grade and will therefore be retired
8 in place.

9 Further, the repower project expects to
10 use certain amounts of the underground cable
11 that are currently installed at 3.5 feet.
12 Through the amendment to the AIMA, the
13 Department of Agriculture has approved to allow
14 those existing cables to be retired in place for
15 the repowered project.

16 The O&M building utilized for the project
17 is expected to be demolished with a demolition
18 crew. Any salvageable material would be
19 processed onsite and loaded into a truck for
20 sale of scrap. All material would be considered
21 debris and disposed of at a local landfill.

22 The substation and transmission lines of
23 the project, these facilities are located in
24 LaSalle County and therefore not included in the

1 decommissioning plan for Lee County. Those
2 facilities will be addressed in that plan for
3 the appropriate governing agencies.

4 Next slide.

5 For the decommissioning cost estimate as
6 prepared under this plan, based on the 13
7 GE3.4-140 turbines at a 98 meter hub height, and
8 including 5 percent owner indirects and
9 20 percent contingency, the total estimated
10 gross cost for the project for decommissioning
11 of the repower wind project is \$2,456,000, with
12 an estimated scrap value of \$1,716,000, bringing
13 a total net cost of \$740,000, or \$56,923 on a
14 per-turbine basis.

15 That concludes my slide for the
16 decommissioning plan.

17 JUDGE SLAVIN: All right.

18 Q. (By Mr. Barry:) Ms. Rose --

19 MR. BARRY: I have one more question.

20 JUDGE SLAVIN: Oh, sure.

21 Q. (By Mr. Barry:) A couple slides back you
22 mentioned the AIMA with the Illinois Department
23 of Agriculture. Is the decommissioning plan
24 that's Appendix E to the application, was it

1 prepared in compliance with and does it comply
2 with the AIMA that was entered into by the
3 project with the Illinois Department of
4 Agriculture?

5 A. Yes, it was and it does.

6 MR. BARRY: No further questions at this
7 time.

8 JUDGE SLAVIN: All right. Back around the
9 horn.

10 Mr. Boonstra?

11 STATES ATTORNEY BOONSTRA: No, sir. Thank
12 you.

13 JUDGE SLAVIN: Ms. Henkel?

14 MS. HENKEL: None. Thank you.

15 JUDGE SLAVIN: Ms. Duffy?

16 MS. DUFFY: No.

17 JUDGE SLAVIN: Mr. Forster?

18 MR. FORSTER: No questions.

19 JUDGE SLAVIN: Mr. Buhrow?

20 MR. BUHROW: Yes.

21 EXAMINATION

22 BY MR. BUHROW:

23 Q. Ms. Rose, you stated that the current cables
24 are 3 and a half feet deep?

1 A. That is my understanding.

2 Q. And that our Ordinance calls for everything to
3 be removed down to 5 feet deep?

4 A. That is correct.

5 Q. Okay. And so I think that's one of the Special
6 Uses that's being addressed, is that -- have you
7 heard that situation? That's been addressed to
8 you?

9 A. Yes. And as mentioned, that is being addressed
10 under the Amendment 1 to the AIMA.

11 MR. BARRY: That's also part of
12 Petitioner's request for a Variance from the
13 Ordinance.

14 Q. (By Mr. Buhrow:) The other thing, currently
15 locally we have -- have you been involved in a
16 decommissioning project yet?

17 A. I have not been the contractor of
18 decommissioning a wind project, no.

19 Q. We currently in this area have several
20 companies that grind cement up instead of using
21 a landfill. Have you been familiar with that
22 situation or not yet?

23 A. I'm not familiar with that particular
24 situation, but it sounds very interesting to me

1 personally.

2 MR. BUHROW: Okay. That's all I have.

3 JUDGE SLAVIN: Mr. Hughes?

4 MR. HUGHES: Yes, a few questions.

5 EXAMINATION

6 BY MR. HUGHES:

7 Q. Getting back to the deconstruction of the
8 current site or the decommissioning of it,
9 what -- you have gone through -- you're talking
10 about using a crane and crews to remove the
11 turbines themselves, the turbine towers and the
12 met towers -- first of all, I'm not sure what
13 the met towers are?

14 A. The met tower is short for meteorological
15 tower.

16 Q. Oh, okay. Thank you.

17 A. That's the wind vanes and measurements.

18 Q. Thank you.

19 But in the application it talks about two
20 methods: energetic felling and cut-and-fell.
21 Now, where do these fit into this process that
22 you're talking about?

23 A. Those methods were -- are not part of this
24 particular decommissioning plan. This

1 decommissioning plan that I directed the
2 preparation of covers the repowered wind
3 project, not the current decommissioning of the
4 current wind project. So that's why those
5 methods are not addressed in this plan.

6 Q. Okay. So although you addressed the AIMA for
7 the amended part of decommissioning the
8 existing, you didn't -- you haven't addressed
9 the whole decommissioning of the existing
10 facility in your present -- current
11 presentation?

12 A. That's correct. The AIMA is -- the AIMA was
13 part of the presentation to cover any facilities
14 that might be reused as part -- from the old
15 project in the repowered project. Those
16 facilities used as part of the repower project
17 would be covered in this particular
18 decommissioning plan.

19 Q. Okay. Thank you.

20 Then the next question is, are you
21 prepared to answer any questions on the
22 decommissioning of the existing operation?

23 A. I am not. That study was prepared by another
24 third party.

1 Q. Okay. Are we going to have a witness that can
2 address the decommissioning?

3 MR. BARRY: We can try to have --
4 potentially have one of the witnesses, the next
5 witness, address questions about decommissioning
6 and we can -- if that's not sufficient, we have
7 the engineers who prepared the decommissioning
8 study for the existing project. We can make
9 them available, just not tonight.

10 MR. HUGHES: Okay. Because I think the
11 decommissioning --

12 JUDGE SLAVIN: Well, let's just --

13 MR. HUGHES: Okay.

14 JUDGE SLAVIN: -- stick to questions for
15 her.

16 MR. HUGHES: Sorry. You're right.

17 JUDGE SLAVIN: Otherwise it turns into a
18 round table.

19 MR. HUGHES: Nope, I understand.

20 Q. (By Mr. Hughes:) Then also in the
21 decommissioning costs, you took estimated scrap
22 value. I assume that is not taking into account
23 the salvageable materials from the equipment
24 itself and you're just talking about other scrap

1 because -- I'll stop with that so you can answer
2 that question.

3 A. The values taken from scrap do include
4 equipment that has scrap value. Although this
5 study wouldn't take into account, but, for
6 example, if cables were going to be removed,
7 because the cost to remove cables is so great,
8 the salvageable value of any materials, i.e.,
9 copper or aluminum that might be inside of those
10 cables, the processing of those cables may not
11 be worth it to remove that scrap.

12 So for the equipment and materials,
13 towers, generators, all the equipment up in the
14 cell, there's a lot of valuable metals in that.
15 So generally speaking, we assume that that scrap
16 has a lot of value. There is a cost to process
17 it, and that's all part of the study.

18 So, yes, I -- to answer your question,
19 yes, the value of the equipment and materials
20 would be taken into account in that scrap value
21 as part of that cost estimate.

22 Q. Okay. I might be mistaken, but I was thinking
23 that those scrap values weren't to be included
24 in the offsetting cost of the decommissioning?

1 A. I think maybe -- are you referring to the
2 resale of equipment? I mentioned in a slide
3 that all equipment is estimated as a scrap value
4 versus a resale value.

5 There are aftermarkets for certain
6 components, maybe the substation, possibly
7 medium voltage transformers, those kinds of
8 resales of, you know, potential cost savings are
9 not considered as part of the plan. So that
10 would be a more conservative approach, to just
11 assume everything is scrap versus resold, which
12 might have a higher value.

13 Q. Okay. I'm not sure I'm comfortable with the
14 technicalities of the Ordinance, so I'll just
15 leave it at that explanation.

16 A. Okay.

17 JUDGE SLAVIN: Mr. Pratt?

18 MR. PRATT: No questions, Your Honor.

19 JUDGE SLAVIN: All right. And I don't
20 have any.

21 Interested Parties in the room?

22 MR. HUGHES: You forgot Mr. Meyer.

23 JUDGE SLAVIN: Mr. Meyer. Gosh, why do I
24 do that? It's because I went boom, boom, boom

1 that time.

2 EXAMINATION

3 BY MR. MEYER:

4 Q. Ms. Rose, how many participating residences
5 have more than 30 hours a year of flicker?

6 A. I will have to check my study very quickly.

7 Did you say glare?

8 Q. No. Flicker.

9 A. Okay.

10 Q. You testified there was only one
11 nonparticipating that had more than 30 hours.

12 A. Correct.

13 Q. How many participating have more than 30 hours?

14 A. Let me check my numbers really quick.

15 Four, per the shadow flicker analysis,
16 which is included in the application.

17 Q. How much more flicker would there be at a hub
18 height of 105 meters than at 98?

19 Mr. Wycherly testified last time that the
20 hubs would be as high as 105 meters. Would that
21 change?

22 A. It would change. What that impact is, I can't
23 tell you today. That would be something that we
24 would have to go back and study that iteration.

1 MR. MEYER: Okay. I don't have any other
2 questions.

3 JUDGE SLAVIN: Okay. Now we're going to
4 Interested Parties in the room. No? No?

5 How about on Zoom, Interested Parties?

6 MS. MAUCH: Yeah, please, just a quick
7 question.

8 JUDGE SLAVIN: Sure.

9 EXAMINATION

10 BY MS. MAUCH:

11 Q. Did I understand correctly that if the value of
12 the buried wires weren't high enough to justify
13 salvaging, does that mean those wires would stay
14 buried? Or is that also going to be
15 decommissioned, no matter the cost?

16 A. The underground collection cables, as part of
17 the plan, are expected to be retired in place,
18 per the Lee County Zoning Ordinance, where
19 facilities and equipment needs to be removed to
20 anything shallower than 5 feet below grade.
21 With the exception being that the facilities in
22 the existing project that might be reused as
23 part of the repowered wind project would also be
24 retired in place, and that are currently, as the

1 information we have, 3.5 feet burial depth for
2 those cables.

3 So, no, the expectation as part of this
4 plan is that all underground collection cables
5 below 5 feet and those addressed in the
6 Amendment 1 to the AIMA would be retired in
7 place.

8 Q. Okay. And that is on all participating land,
9 correct? That has nothing to do with
10 nonparticipating properties?

11 A. The decommissioning plan is for all project
12 facilities. So it is the assumption that if the
13 project facility is located on the land, then
14 that decommissioning plan would apply to that
15 land.

16 Q. What percentage of the wires are actually
17 buried at the 3.5 feet versus the 5 feet or
18 more?

19 A. It is my understanding that the existing GSG
20 Wind Project has all of its collection cables
21 buried at 3.5 feet. And any facilities that
22 would be reused as part of the repower
23 project -- I guess if that answers your
24 question, anything that would be used as part of

1 the repower project would be at that 3.5 feet.

2 MS. MAUCH: Thank you.

3 JUDGE SLAVIN: Is that it then?

4 All right. You may step down.

5 MR. BARRY: Could I ask at this time to
6 move into evidence Ms. Rose's presentation? And
7 I know I'm a little tardy on it, but I also ask
8 to move Mr. Brewe's presentation into evidence
9 as well.

10 JUDGE SLAVIN: You're not tardy because I
11 beat you to the punch on the first one.

12 On the second one, yes, you ask and you
13 shall receive.

14 (Petitioner's Exhibit Number 4
15 marked for identification and
16 admitted into evidence.)

17 JUDGE SLAVIN: Let's do -- let's take a
18 break. All right. Now is a good time for a
19 break. We'll reconvene at, oh, let's make it
20 8:15.

21 (A recess was taken at 8:03 p.m.
22 and proceedings resumed at
23 8:15 p.m.)

24 JUDGE SLAVIN: All right. I'll call us

1 out of recess.

2 I have checked tonight's baseball scores,
3 for those of you who care deeply. The White Sox
4 are about ready to win their seventh in a row,
5 and the lowly Cubs are about to lose their
6 second in a row.

7 All right. Mr. Barry, you may continue.

8 MR. BARRY: At this time I'd like to call
9 the next witness, Mr. Carter Wells.

10 CARTER WELLS,
11 being first duly sworn, was examined and
12 testified as follows:

13 DIRECT EXAMINATION

14 BY MR. BARRY:

15 Q. Good evening, Mr. Wells.

16 A. Good evening.

17 Q. Could you state your name for the record,
18 please, and spell it.

19 A. Carter Wells. First name is C-A-R-T-E-R, last
20 name, W-E-L-L-S.

21 Q. Mr. Wells, can you tell us a little bit about
22 your background, please?

23 A. Yes. So I have a bachelor's degrees in both
24 mechanical engineering and mathematics, and a

1 Master's Degree in finance, all from Southern
2 Baptist University.

3 Q. And who is your employer?

4 A. Leeward Renewable Energy.

5 Q. What is your position at Leeward Renewable
6 Energy?

7 A. So I'm a senior development associate and the
8 head developer for the GSG Repower.

9 Q. And so what is your role in connection with the
10 GSG Wind Project?

11 A. So I am essentially tasked with, you know, the
12 development of the repower. So that is design,
13 permitting, and then, you know, managing the
14 construction process.

15 Q. So is it fair to say that you're familiar with
16 the proposed repower of the GSG Wind Project?

17 A. Yes.

18 Q. Mr. Wells, can you confirm that the proposed
19 repowered GSG Wind Project will not generate
20 vibration that will adversely affect adjoining
21 properties?

22 A. I can, yes. Just as the existing project has
23 done, the repower project will not produce
24 vibrations that will adversely affect adjoining

1 properties. And this -- you know, the setbacks
2 in the County Ordinance are more than sufficient
3 to ensure that any vibration caused by the
4 turbines will not affect neighboring properties,
5 and this would be confirmed by an engineer, you
6 know, through an engineer's certificate prior to
7 the issuance of the building permits.

8 Q. As part of the final site plan?

9 A. That's correct, yes.

10 Q. Mr. Wells, can you confirm that the operation
11 of the repowered GSG Wind Project will not
12 generate any air pollution?

13 A. I can, yes. Similar to the existing project,
14 the repowered project will not have any
15 combustion involved with its operation, and
16 therefore will not cause any air pollution from
17 the operation of the turbines.

18 Q. Mr. Wells, can you confirm that the operation
19 of the proposed repowered GSG Wind Project will
20 not generate any significant odors?

21 A. Yes. Again, similar to the existing project,
22 there are no -- there's no combustion involved
23 with the operation of the turbines, and
24 therefore it's not expected that any odor will

1 be produced by those turbines.

2 Q. Mr. Wells, can you confirm that the operation
3 of the proposed repowered GSG Wind Project will
4 not generate any electromagnetic radiation that
5 will adversely affect neighboring properties?

6 A. Yes. Again, similar to the existing project,
7 any electromagnetic radiation or fields that are
8 created from the operation of the turbines will
9 not be -- will not affect neighboring properties
10 to the project.

11 Again, the setbacks prescribed in the
12 County Ordinance are more than sufficient to
13 ensure that no electromagnetic radiation will
14 affect neighboring properties.

15 Q. And, Mr. Wells, will the project comply with
16 all applicable State and federal rules relating
17 to electromagnetic radiation, including those of
18 the Federal Communications Commission?

19 A. It will, yes. And the requirements of the FCC,
20 the Federal Communications Commission, are
21 studied in our communications study, which was
22 submitted as part of the application. And, yes,
23 the project will abide by all State and federal
24 regulations.

1 Q. Mr. Wells, will the repowered GSG Wind Project,
2 or the proposed repower, generate any glare or
3 heat that would affect adversely any neighboring
4 properties?

5 A. It will not, no. Again, similar to the
6 existing project, the turbines will be painted
7 white or another nonobtrusive color to ensure
8 that there's no glare or heat adversely
9 affecting neighboring properties.

10 Q. Mr. Wells, will the operation of the proposed
11 repowered GSG Wind Project present a significant
12 risk of fire or explosions as it relates to
13 adversely affecting neighboring properties?

14 A. No, it is not expected that the repower project
15 will be operated with any risk of fire or
16 explosion, and we do not expect there to be any
17 risks involved with that during the operations
18 of the project.

19 Q. And will the project, if repowered, make sure
20 it will store any flammable or potentially
21 flammable materials more than 400 feet from
22 neighboring properties?

23 A. That is correct, yes. The project will ensure
24 that all flammable materials are stored greater

1 than 400 feet from any neighboring properties.

2 Q. Mr. Wells, will the repowered GSG Wind
3 Project's operations generate any toxic or
4 noxious material that will be discharged onto
5 adjoining properties?

6 A. No. The project is not expected to emit any
7 toxic or noxious materials onto neighboring
8 properties. Any toxic materials that are not
9 stored within the turbines themselves for
10 operation -- that being lubricants, grease,
11 oils -- will be stored at the operations and
12 maintenance facility in compliance with State
13 and federal regulations.

14 Q. And will the repowered project, if it's built,
15 have a spill prevention control and
16 countermeasures plan?

17 A. It will, yes.

18 Q. Mr. Wells, will the repowered GSG Wind Project,
19 if built -- how will that project manage waste
20 material -- or will it manage it in a way that
21 it avoids interference with neighboring
22 properties?

23 A. Yes. So the project will -- has a plan to, you
24 know, manage any waste materials that are

1 produced by the project. Any waste materials
2 will be removed from the site and disposed of in
3 accordance to any applicable State or federal
4 regulations.

5 Q. And incidentally, is the waste handling for the
6 proposed project discussed in the permit
7 application?

8 A. It is, yes. I believe it's Section 5.2.5.

9 Q. All right. Mr. Wells, will the repowered -- or
10 excuse me.

11 Will the proposed repowered GSG Wind
12 Project comply with local State and federal
13 rules regarding the transport, handling, storage
14 and disposal of any hazardous materials
15 connected to the construction, operations or
16 maintenance of the repowered project?

17 A. It will, yes.

18 Q. And is that covered in the permit application
19 materials?

20 A. Yes, I believe also again in Section 5.2.5 of
21 the application.

22 Q. And will the Applicant provide a written
23 description to Lee County of all materials
24 deemed hazardous materials and their role in the

1 operations of the repowered GSG project in
2 connection with applications for building
3 permits?

4 A. Yes, it will.

5 Q. Mr. Wells, have you had discussions with the
6 Lee County Zoning Officer about whether the
7 Applicant's sound expert is qualified to produce
8 the sound report?

9 A. I have, yes.

10 Q. Mr. Wells, Ms. Rose, in her testimony this
11 evening, mentioned a waiver by one of the
12 nonparticipating landowners relating to shadow
13 flicker. Could you please elaborate on that
14 discussion?

15 A. Yes. So in the shadow flicker report that
16 Ms. Rose spoke about tonight, she identified one
17 residence that exceeded 30 hours of shadow
18 flicker, and I can confirm that we -- the
19 project has executed an impacts agreement with
20 that landowner to waive the limitations to
21 shadow flicker cast onto their property.

22 Q. Thank you.

23 Mr. Wells, are you familiar with the
24 decommissioning study that was done for removal

1 of the existing project equipment?

2 A. I am, yes.

3 Q. Is that study included in the permit
4 application materials?

5 A. Yes. I believe it is Appendix E.

6 Q. Thank you, Mr. Wells.

7 MR. BARRY: Judge, at this time I don't
8 have any additional questions for Mr. Wells.

9 JUDGE SLAVIN: All right. Around the
10 horn.

11 Mr. Boonstra?

12 STATE'S ATTORNEY BOONSTRA: No questions.
13 Thank you.

14 JUDGE SLAVIN: Ms. Henkel?

15 EXAMINATION

16 BY MS. HENKEL:

17 Q. Just to touch on the Variances that you guys
18 are requesting. For some of these Variances,
19 you have sought landowner waivers to address
20 these Variances; is that correct?

21 A. Are you referring to the Variances for
22 decommissioning depth of the collection cables?

23 Q. Well, actually that was going to be my next
24 question. What all areas are landowners

1 entering into waivers?

2 A. So the participating landowners in the project
3 have, you know, signed, as part of their
4 easement, an impact waiver to essentially, you
5 know, waive any requirements for noise or shadow
6 flicker and setbacks, except where otherwise
7 limited by the Ordinance from their residence or
8 property line.

9 Q. Now, the landowners that will have collection
10 lines left in place on the land, will they be
11 signing waivers as well?

12 A. So as of now, we haven't had landowners
13 specifically sign a waiver for the
14 retirement-in-place of those collection lines,
15 the existing collection lines. But, you know,
16 in my discussions with landowners -- and this is
17 a discussion that we had with the Department of
18 Agriculture as well -- you know, those original
19 cables that were installed in the project back
20 in 2007, you know, landowners may have installed
21 drain tiles in, on top of, around the existing
22 collection cable. And, you know, I have come to
23 the conclusion, in talking to the landowners in
24 the project that, you know, it is in their best

1 interest and their -- they prefer that the cable
2 be retired in place to avoid any unnecessary
3 impacts to the land.

4 MS. HENKEL: Okay. Thank you.

5 JUDGE SLAVIN: Ms. Duffy?

6 MS. DUFFY: No, thank you.

7 JUDGE SLAVIN: I learned my lesson. I
8 tried to go to the Board in order of seniority,
9 but I am not going to do it anymore because I
10 keep skipping around.

11 Mr. Forster?

12 MR. FORSTER: No questions at this time.

13 JUDGE SLAVIN: Mr. Hughes?

14 MR. HUGHES: Yes, I have got a variety of
15 them.

16 EXAMINATION

17 BY MR. HUGHES:

18 Q. First one I'll go to is the decommissioning.
19 There is a study in here referencing the
20 existing decommissioning, but I don't see that
21 it draws a specific conclusion. There's two
22 particular methods that it's talking about: the
23 energetic fell and the cut-and-fell.

24 Has there been any decision as to which

1 method is going to be used?

2 A. So the report outlines, as you said, both the
3 energetic felling and the cut-and-fell method.
4 We are seeking approval to use either one of
5 those options, and we would make a decision as
6 to which method of decommissioning to use prior
7 to application for building permits.

8 Q. Okay. In the energetic fell method, it talks
9 about the impact from the explosions and the
10 felling and measures it at a thousand feet.
11 Is -- in the -- excuse me.

12 There's at least one residence then that I
13 saw in your site plan that's only 760 feet from
14 the tower.

15 JUDGE SLAVIN: Is that a question? Do you
16 agree with that?

17 MR. HUGHES: Yeah, okay. Thank you.

18 Q. (By Mr. Hughes:) And do you agree that there's
19 at least one property that's under that 700 --
20 or that thousand feet?

21 A. So I haven't looked at the measurement from
22 that residence specifically, but if it is in
23 there, then I recognize that it's in there. In
24 which case, we wouldn't be permitted to use

1 explosives to decommission that machine.

2 Q. Okay. So you are looking at using either/or,
3 depending on where a particular tower is and the
4 residences around it?

5 A. That is correct. We would, you know, seek to
6 use a uniform decommissioning methodology across
7 the entire project for all the turbines, but in
8 specific situations, such as this that you
9 brought up, we would take the necessary
10 adjustments -- make the necessary adjustments to
11 ensure that we're in compliance with the
12 Ordinance.

13 Q. Okay. Then dealing with setbacks. In your
14 description of the equipment to be used, there
15 is a description of hub height from 107 to 120,
16 correct?

17 A. I believe that is correct, yes.

18 Q. And it appears that GE is recommending -- well,
19 it states that the 117 hub height, a tip height
20 of 187 meters. Are you aware of that?

21 A. I'm not familiar with the machine that you're
22 quoting there, the 117-meter hub height.

23 Q. It is -- let me see. It is a 3.03-140 wind
24 turbine. And it provides for multiple hub

1 heights, but in general it talks about tower --
2 it will have a hub height of approximately
3 117 meters, is in development, but the final
4 height will be between 107 to 102. Are you
5 aware of that -- meters?

6 A. I'm not aware of specifically where that is
7 called out in the Ordinance. I believe the 3.03
8 machine that you're speaking about there does
9 have a hub height of 105 meters, if I am
10 correct. I believe there was a machine -- one
11 of the machines in there had a rotor radius --
12 or, sorry, a rotor diameter of 117 meters.

13 Q. No, it -- it shows a hub height of 117.

14 A. Hub height of 117?

15 Q. And maximum tip height of -- or upper tip
16 height of 187.

17 A. And that's --

18 JUDGE SLAVIN: Where are we going? Let's
19 just ask a question.

20 MR. HUGHES: I'm just clarifying the
21 information, because they have talked about
22 multiple pieces of equipment.

23 Q. (By Mr. Hughes:) So would you agree that at
24 that height, the 1.1 times, which is required,

1 for the setbacks in either 1, or 1.1 in many
2 cases, that would be about 677 feet?

3 A. Yes, so I think the reason I was confused is,
4 what you're referencing is the tip height, not
5 the hub height. So the height being the -- you
6 know, with one of the blades sticking directly
7 up, the measurement from the tip of that blade
8 to the base. And when you refer to hub height,
9 I thought you were referring to the distance
10 from the ground to the nacelle, so the center of
11 the blades.

12 Q. It has both of those.

13 A. Okay.

14 Q. 117 is the hub and 187 is the tip.

15 So if you're in agreement that the 677 is
16 the 1.1 times, as I was going through the
17 placement, it -- in most cases it shows a -- at
18 a 1.1 radius, it shows at 1.1 times it appears,
19 in most cases, to be about 640 feet in the
20 description of the -- in the project maps.

21 A. Okay.

22 Q. If the 1.1 is 677, why in the project maps is
23 it drawn in most cases at 640?

24 A. So the setbacks that you're seeing in, I

1 believe that's Appendix A there, the project
2 maps --

3 Q. Yup.

4 A. -- those are the setbacks from the GE 3.6-154
5 machine. So that is a 154-meter rotor diameter
6 on a 98-meter tower. And I believe -- so the
7 setbacks in Appendix A are consistent with that
8 turbine model, because that is the layout that
9 is displayed there in Appendix A.

10 Q. But that doesn't appear to be what's put in the
11 application, is it?

12 A. The turbine used in the Appendix A site layout
13 maps is the 3.6 -- the GE 3.6 machine. So given
14 that this is our preliminary layout, we modeled,
15 you know, the setbacks off of that turbine.
16 There are multiple turbines that are identified
17 as potential candidates to be used in this
18 project.

19 So if a turbine other than the GE 3.6
20 machine was selected, we would provide updated
21 setback maps and site layout maps to show
22 compliance with the Ordinance.

23 Q. And this one may not fall into your -- I'm
24 going to move away from the setbacks. This one

1 may not fall into your purview. I missed a
2 chance to talk -- ask Ms. Rose.

3 But in the modeling for the shadow
4 flicker, they used ten -- ten of the properties
5 were modeled with obstacles, everything else was
6 done in a greenhouse effect. Do you know why
7 those ten were used with obstacles?

8 A. So I believe the reason obstacles were used in
9 that situation is to create a more accurate
10 representation of the shadow flicker that would
11 occur at that residence. In all other
12 situations, it was modeled as if there were no
13 obstructions and the house was a glass house;
14 meaning, every wall and the roof of the house is
15 all made out of glass.

16 Q. Greenhouse effect.

17 A. Yeah.

18 Q. Do you have any idea what the particular
19 obstacles were that prompted that use on those
20 ten?

21 A. So I'm not sure what kind of obstacles they
22 were. I know that, you know, satellite imagery
23 was referenced to understand what the obstacles
24 were, whether it was a tree or vegetation, a

1 barn. But, you know, the obstacles were modeled
2 based on what is present there.

3 Q. Okay. One more question, a rather generic one
4 but I think probably important. Is Leeward
5 Renewable Energy, LLC, committed to being bound
6 to all representations made in the application
7 for the GSG Wind Project and statements made
8 under oath during the Zoning Board of Appeals
9 hearing?

10 A. Yes.

11 MR. HUGHES: Thank you.

12 JUDGE SLAVIN: All right. Mr. Buhrow?

13 MR. BUHROW: Yes.

14 EXAMINATION

15 BY MR. BUHROW:

16 Q. Just a clarification on one of Mr. Hughes'
17 questions. With that situation of being near on
18 the dropping of the towers, you're saying then
19 that you may use both types of felling systems,
20 just depending on the situation that you're
21 involved with?

22 A. So I believe his original question was directed
23 at the use of explosives in proximity to a
24 residence. But the decommissioning analysis

1 that was performed for the existing project does
2 outline the direction of felling of the
3 turbines. So the turbines would be knocked
4 over, for lack of a better word, in a controlled
5 way in order to, you know, control the direction
6 in which the turbine falls over.

7 Q. And the other thing I guess we haven't talked
8 about. When you drop these turbines, are you
9 taking the blades off first or leaving them on?

10 A. So I'm not, I guess, experienced enough in that
11 operation to understand -- I guess I'm not -- I
12 can't answer that question at this time.

13 Q. Okay. That's fine.

14 And you covered some other areas answering
15 Mr. Barry's questions about the certain
16 situations that you probably aren't going to
17 encounter.

18 What's the type of hazardous materials
19 that you would be using on this project?

20 A. So the most common hazardous materials that are
21 used for the repower project would be things
22 such as grease, oils, lubricants that are used
23 in the generators of the machines.

24 MR. BUHROW: All right. That's all.

1 Thank you.

2 JUDGE SLAVIN: It's not going to happen
3 anymore, Mr. Meyer. We're going around the horn
4 in order. So your turn.

5 MR. MEYER: Thank you.

6 EXAMINATION

7 BY MR. MEYER:

8 Q. How big are the current concrete foundations
9 under the Gamesa generators?

10 A. So I'm not sure what the exact dimensions of
11 those foundations are, but they are around
12 50 feet in diameter.

13 Q. Are you going to reuse any of the existing
14 foundations?

15 A. No.

16 MR. MEYER: That's all. Thank you.

17 JUDGE SLAVIN: Mr. Pratt?

18 MR. PRATT: No questions.

19 JUDGE SLAVIN: Interested Parties in the
20 room, raise your hand if you have a question.

21 Yes, ma'am.

22 EXAMINATION

23 BY MS. KITRAL:

24 Q. If you're going to use --

1 JUDGE SLAVIN: We have a record. So you
2 have to --

3 MS. KITRAL: I'm sorry. Lorraine Kitral.

4 Q. (By Ms. Kitral:) If you are going to use
5 explosives, are you going to notify the
6 surrounding landowners when this is going to
7 take place?

8 A. Yes. There is a requirement in the Ordinance
9 to notify landowners of the use of explosives.

10 Q. And this is, like, nonparticipating landowners?

11 A. Correct, yes.

12 Q. Okay. And then the height of these, is there
13 a -- going to be a better chance of them being
14 hit by lightning?

15 A. I do not have enough information at this time
16 to answer that question accurately. To my --
17 I'm not aware of any relationship between tip
18 height of the turbines and likelihood of being
19 struck by lightning, but I'm not an expert in
20 that field.

21 MS. KITRAL: That's all.

22 JUDGE SLAVIN: Yes, sir.

23 MR. KLEIN: Doug Klein.

24 EXAMINATION

1 BY MR. KLEIN:

2 Q. Does your study have anything to do with, like,
3 electrical interference with television, cell
4 phones, Broadband?

5 A. Yes. So we did have a communications study
6 performed based on the repower project and, you
7 know, it actually utilized all 24 of the
8 potential turbine sites that we identified that
9 my colleague, John, had up on the screen here on
10 Wednesday night.

11 And, yes, we did have a communications
12 study performed which addressed things like TV
13 signals, cell phone signals, you know, emergency
14 communication signals. I am not sure which
15 appendix that is in the application, but it was
16 submitted as part of the application package.

17 Q. Presently I have two 2-megawatt towers behind
18 me and likely there's going to be one 4-megawatt
19 tower to replace them. Is there a proportionate
20 increase in interference with the size of the
21 tower?

22 A. So to my knowledge, the interference is not
23 based on the generator size, as you're referring
24 to. So an increase from a 2-megawatt machine

1 to, say, a 3.6 or a 4.5 to my knowledge does not
2 have any effect on communications interference.

3 Communications interference is more
4 affected by the physical size of the turbines.
5 So that would be the tip height and the rotor
6 radius -- or the rotor diameter of the turbines.

7 Q. So the amount of interference would be
8 proportionate to what the present tip height is
9 to what it is going to go to now?

10 A. So I don't think it would be accurate to say
11 that the level of interference is proportionate
12 to the size of the turbine, because there are a
13 lot of other factors that play into any
14 interference that occurs. You know, for some
15 signals it's a line of sight.

16 For instance, microwave beam paths need a
17 line of sight from, you know, two of the towers.
18 So that is something that we take into
19 consideration when designing the layout for the
20 project, is we'll look at beam paths between
21 towers so that the signals that are being
22 transmitted between two towers, there's a width
23 and a height to those beam paths, or almost like
24 a circular tube, essentially, invisible running

1 through the air. So those are considered when
2 designing the layout to ensure that turbines
3 won't interfere with that line of sight path
4 between towers.

5 MR. KLEIN: Thank you.

6 JUDGE SLAVIN: Is that it then? Fair
7 enough.

8 All right. On Zoom, Interested Party,
9 questions?

10 MS. MAUCH: Yes, please.

11 JUDGE SLAVIN: Start with your name,
12 please.

13 MS. MAUCH: Mary Mauch.

14 EXAMINATION

15 BY MS. MAUCH:

16 Q. Just one quick question. What escrow account
17 or bond is actually in place to guarantee that
18 Leeward, Limited Liability Corporation, will
19 actually execute the decommissioning plan when
20 or if it's discovered that the cost of
21 decommissioning far exceeds the actual
22 salvageable value?

23 A. So it's my understanding -- well, first, the
24 decommissioning plan that was presented by

1 Ms. Rose, you know, takes into account all the
2 factors to determine the net decommissioning
3 costs of the project.

4 In the County Ordinance, that
5 decommissioning cost is updated periodically
6 throughout the life of the project to make sure
7 that the adequate amount of money is in the
8 escrow account to decommission the project.

9 Q. That's excellent.

10 So Lee County holds that escrow account or
11 that's out of the hands of Leeward, LLC?

12 A. That's correct, yes, to my knowledge.

13 MS. MAUCH: Thank you.

14 JUDGE SLAVIN: Meaning, that's it?

15 MS. MAUCH: Yes. Thank you.

16 JUDGE SLAVIN: I have one question.

17 EXAMINATION

18 BY JUDGE SLAVIN:

19 Q. Doesn't the existing wind project, not the
20 proposed repower, the existing one, have a
21 decommissioning plan attached to it --

22 A. So it is my understanding, after --

23 Q. -- or not?

24 A. It is my understanding, after speaking with the

1 Zoning Administrator, that there is not a
2 decommissioning plan currently in place for the
3 existing project. And that has to do with, you
4 know, the Ordinance that the original project
5 was permitted under.

6 Q. Okay. So you are then -- am I correct that you
7 are then assuming that you fall under the new
8 Ordinance, which a decommissioning plan for the
9 existing project would then be approved by the
10 Zoning Officer and I think County engineer; is
11 that right?

12 A. I guess I -- I'm not sure what Ordinance would
13 be governing --

14 Q. That was kind of an unfair question.

15 MR. BARRY: Yeah, I don't know, I mean,
16 he --

17 JUDGE SLAVIN: That's unfair.

18 MR. BARRY: That question may call for a
19 legal conclusion.

20 JUDGE SLAVIN: Yeah, you're right.

21 Q. (By Judge Slavin:) So what protocol do you --
22 as you sit there now, as the project development
23 manager, do you intend to use to get the
24 existing project decommissioned?

1 A. Are you asking what our preferred methodology
2 for decommissioning is?

3 Q. No. What -- I mean, you can't just go out
4 there and start hacking things down. What
5 approval protocol do you intend to go through,
6 as you sit there now, to get the approval to
7 decommission the present project?

8 A. So we've submitted a decommissioning analysis
9 as part of the decommissioning plan for the
10 existing project in our permit application which
11 outlines two methodologies for decommissioning,
12 and we would ask approval for -- you know, to
13 use either of those decommissioning
14 methodologies.

15 Q. Approval from whom?

16 A. So approval of the application would -- we
17 would ask for that approval as part of approval
18 of our Special Use Permit.

19 JUDGE SLAVIN: All right. Based on my
20 questions, Mr. Barry?

21 MR. BARRY: I have no further questions
22 for Mr. Wells.

23 JUDGE SLAVIN: All right. You may step
24 down. Thank you.

1 THE WITNESS: Thank you.

2 JUDGE SLAVIN: Okay. Further evidence,
3 Mr. Barry?

4 MR. BARRY: Well, I guess the question I
5 have is less for Your Honor than perhaps for the
6 Board members. As I indicated earlier when
7 Mr. Hughes inquired about the decommissioning
8 plan or a study for the existing project, we
9 have an engineering firm that prepared that plan
10 and we -- the Applicant is certainly willing to
11 make them available, should the Board want to
12 ask further questions.

13 We just can't -- they're not available
14 tonight.

15 JUDGE SLAVIN: I'm hoping you'll
16 appreciate this. I don't want to put that
17 burden on the Board. I'm going to put that
18 burden on you to decide whether you want to
19 produce that or not.

20 If you want to take a few minutes to
21 consult with your client, that's fine. That's
22 fine. I understand. This sort of came out of
23 the blue.

24 So if -- we'll take five.

1 MR. BARRY: Okay. Thanks.

2 (A recess was taken at 8:52 p.m.
3 and proceedings resumed at
4 8:56 p.m.)

5 JUDGE SLAVIN: All right. On the record.

6 MR. BARRY: We're going to be presenting
7 one more witness.

8 JUDGE SLAVIN: Okay.

9 MR. BARRY: And they're not available this
10 evening.

11 JUDGE SLAVIN: And without being kind of
12 pushy about it, do you know when they're going
13 to be available?

14 MR. BARRY: Oh. Yeah, I think they're
15 available Wednesday or Thursday, whatever --

16 MR. WELLS: Wednesday or Thursday.

17 MR. BARRY: Wednesday or Thursday.

18 JUDGE SLAVIN: This is going to create
19 some other scheduling problems, but so it goes.
20 I understand. You've got your opportunity.

21 So I don't want to ask any Interested
22 Parties to present any evidence before you're
23 finished.

24 So I guess we're for tonight finne,

1 continued until, not tomorrow night, but
2 Wednesday night, the 11th, at 7 o'clock. Be
3 here at the old ballpark.

4 MR. HUGHES: Wednesday, not Thursday?

5 JUDGE SLAVIN: Wednesday now because now
6 we're still in the midst of presenting evidence.
7 We're going to have to talk about some other
8 dates.

9 COURT REPORTER: Can you ask who's going
10 to be available? Because there were two that
11 were not available, according to my notes.

12 JUDGE SLAVIN: Yeah, I'll make sure. So
13 we're talking about Wednesday, the 11th. Two
14 days, 48 hours, from now. I have got the
15 courtroom as being available.

16 And I have got Mr. Forster is available,
17 right?

18 MR. FORSTER: Yes.

19 JUDGE SLAVIN: Mr. Buhrow?

20 MR. BUHROW: Yes.

21 JUDGE SLAVIN: Mr. Pratt?

22 MR. PRATT: I'm available.

23 JUDGE SLAVIN: Mr. Hughes?

24 MR. HUGHES: I believe so.

1 JUDGE SLAVIN: And, Mr. Meyer?

2 MR. MEYER: I said no originally.

3 JUDGE SLAVIN: You did. You did, and I
4 have that "no" circled.

5 MR. HUGHES: I think I may have been a
6 question mark.

7 JUDGE SLAVIN: No, I have you as a "Y,"
8 but that doesn't mean -- I could be wrong.

9 Ms. Duffy, Ms. Henkel, you're available?
10 Ms. Henkel is not?

11 MS. HENKEL: I am not.

12 JUDGE SLAVIN: How about you,
13 Mr. Boonstra?

14 STATE'S ATTORNEY BOONSTRA: I can be,
15 yeah.

16 JUDGE SLAVIN: Okay.

17 MS. DUFFY: Thursday is better though,
18 right?

19 STATE'S ATTORNEY BOONSTRA: Yeah, Thursday
20 would be fantastic.

21 JUDGE SLAVIN: I mean, if you guys want to
22 do Thursday? That's fine with me. I -- we'll
23 just push it back farther, and that's fine.

24 All right. Let's go to Thursday. The

1 courtroom is available.

2 How about you, Mr. Forster?

3 MR. FORSTER: Yes.

4 JUDGE SLAVIN: Mr. Buhrow?

5 MR. BUHROW: Yes.

6 JUDGE SLAVIN: Mr. Pratt?

7 MR. PRATT: Yes.

8 JUDGE SLAVIN: Mr. Hughes?

9 MR. HUGHES: Yes.

10 JUDGE SLAVIN: Mr. Meyer?

11 MR. MEYER: Yes.

12 JUDGE SLAVIN: Ms. Duffy?

13 MS. DUFFY: Yes.

14 JUDGE SLAVIN: Ms. Henkel?

15 MS. HENKEL: Yes.

16 JUDGE SLAVIN: Mr. Boonstra?

17 STATE'S ATTORNEY BOONSTRA: Yes.

18 JUDGE SLAVIN: Mr. Barry, you and yours?

19 MR. BARRY: Yes.

20 JUDGE SLAVIN: Callie?

21 COURT REPORTER: Yes.

22 JUDGE SLAVIN: I'm here.

23 All right. Thursday it is. Thursday at

24 7 o'clock. Be here or be square.

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MR. BARRY: Thank you.

JUDGE SLAVIN: No, thank you.

(The hearing was recessed at
9:01 p.m.)

1 Now on this 9th day of May, A.D., 2022, I do
2 signify that the foregoing testimony was given
3 before the Lee County Zoning Board of Appeals.
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8 Bruce Forster, Chairman
9
10
11

12 Dee Duffy,
13 Zoning Enforcement Officer
14
15

16 -----
17 *Callie S. Bodmer*

18 Callie S. Bodmer
19 Certified Shorthand Reporter
20 Registered Professional Reporter
21 IL License No. 084-004489
22 P.O. Box 381
23 Dixon, Illinois 61021
24