In The Matter Of:

LIVINGSTON COUNTY ZONING BOARD OF APPEALS

January 14, 2015

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			January 14, 2015
L*47	47*L* Page 1100		Page 1102
1	LIVINGSTON COUNTY ZONING BOARD OF APPEALS	_	(Common sing at 6:20 mm)
2	CASE SU-7-14 PLEASANT RIDGE WIND ENERGY PROJECT	1	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
3	January 14, 2015	2	- 6 7,6
	6:30 PM	3	call this meeting to order. Chuck, can we get roll
4	Pontiac Township High School Pontiac, Illinois	4	call please?
5	BOARD MEMBERS	5	MR. SCHOPP: This is the January 14th,
6	Michael Cornale, Acting Chair Howard Zimmerman	6	2015, continuation hearing of Livingston County
7	Rich Kiefer	7	
8	John Vitzthum Joan Huisman		Zoning Case SU-7-14, Pleasant Ridge Energy, LLC,
9	Diana Iverson Tom Blakeman, Attorney for Zoning Board of Appeals		
10	Charles T. Schopp, Administrator		Pleasant Ridge Wind Energy project. Michael
	Livingston County Regional Planning Commission		Cornale.
11	112 W. Madison Street Pontiac, IL 61764	11	
12	James R. Griffin	12	MR. SCHOPP: John Vitzthum.
13	Attorney for Livingston County Schain, Banks, Kenny & Schwartz	13	MR. VITZTHUM: Here.
14	70 W. Madison Street, Suite 5300	14	MR. SCHOPP: Richard Kiefer.
15	Chicago, IL 60602 312.345.5700	15	MR. KIEFER: Here.
16	Appearing For Applicant/Invenergy:	16	MR. SCHOPP: Diana Iverson.
17	Michael S. Blazer Attorney at Law	17	NG WITTEGON W
18	Jeep & Blazer, LLC		AFD COVICED VI
	24 North Hillside Avenue, Suite A Hillside, IL 60162	18	
19	708.236.0830 mblazer@enviroatty.com	19	
20	Appearing for United Citizens of Livingston County:	20	
21	Phillip A. Luetkehans Attorney at Law	21	
22	Schirott, Luetkehans & Garner, LLC	22	MR. SCHOPP: Gibs Nielsen. We do have a
23	105 E. Irving Park Road Itasca, IL 60143	23	quorum. I'm just going to make a quick announcement
24	630.760.4601 pluetkehans@slg-atty.com	24	on a scheduling issue here also. The meeting we had
	Page 1101		Page 1103
1	·		· ·
1 2	Page 1101 INDEX OF EXAMINATION Page		scheduled for January the 28th, there's conflicts
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Page 1104

OUESTIONS BY

MR. LUETKEHANS:

- 3 Q. I promise we're almost done, Mr. Thayer.
- Take your time.

1

2

- A. Is it working? Before we get started with
- the questions today, you had asked me a question 6
- last Monday about the number of homes that were
- excluded using the 15 acre screen. Remember that?
- 9 And I said I did not know. I did have a chance to
- look up the answer a couple days here in 10
- 11 Bloomington, and the answer was six. So the number
- of homes eliminated using the 15 acre screen within 12
- a half mile of a turbine are six. 13
- Q. Thank you. 14
- 15 A. You're welcome.
- Q. You also removed sales because they 16
- 17 deviated too far from the mean, correct?
- A. In the --18
- Q. In the 2009. 19
- 20 A. In the 2009 study, not from the mean.
- 21
- A. We eliminated 30 -- there's 34 22
- 23 observations who created a standardized residual
- 24 more than six standard deviations from the mean.

- make along the way, we go back later and test
- whether or not that would have any impact upon the
- final results. So we make decisions all the time
- about, for example, 15 acre screen, et cetera. We
- go back and test that later to see whether or not it 5
- would have an impact upon the final results. 6
- 7 Q. Okay.
 - A. That's part of the peer review process
- 9 actually.

8

16

17

23

5

16

20

- 10 Q. Okay. Speaking of the peer review
- 11 process, I assume there are peer review reports,
- studies, articles, that over the years had 12
- 13 conclusions that didn't end up being proven out 20,
- 30 years later, correct? Just generally. Not 14
- 15 talking about years in particular but in general.
 - A. Oh, sure, as science progresses, sometimes it goes the other direction, yes.
- Q. Okay. Let's start, you have in front of 18
- 19 you the 2009 study? Sorry, take -- you might as
- well grab the '13. Those are the only two 20
- 21 documents, I promise, you're going to need for the rest of the evening. 22

Okay, and for the record, the 2009 study is Pleasant Ridge Exhibit 31. In the 2009 study,

Page 1105

Page 1107

- Q. Okay. So how is that -- maybe I got lost 1
- 2 there and was trying to -- how is that different
- than they deviated too far from the mean? 3
- A. Well, the residual is you have an 4
- estimated model, okay? So you take your estimated
- model, that's a prediction. The prediction minus
- the actual value is the residual, okay? So in the
- case here -- so that's the residual. Now, if the
- residual is more than six standard deviations from
- the mean residual, we eliminated those. 10
- 11 O. Okay.
- A. It's very unlikely -- there's a few 12
- observations obviously that met that criteria. 13
- Q. Okay, so they were so far off -- the 14
- residuals were so far off that you eliminated them? 15
- A. Yes. 16
- Q. Okay. And you said I think the other day 17
- you tested for robustness on those, but what the 18
- results would be if they were in here, if they were 19
- included, are not in the study, correct? 20
- A. They're not in the final study except that 21
- we do go back, one of the -- I think I said last 22
- time as part of our research protocols, any 23
- assumptions we make or anything, any decisions we

- one of the things you include are information about
- 2 the study areas towards the back. And I don't know
- 3 if it's in Appendix --
- A. I think it's one of the appendices, yes. 4
 - Q. Okay. And it kind of starts around page
- 82 and each area has a little description and we'll 6
- talk about those in particular. But in the 2013 7
- study, I couldn't find that. Is that correct that
- those are -- that was not at least published in the 9
- 2013 study? 10
- A. It was not. 11
- Q. Okay. So let's talk about these areas. 12
- First of all, do you know what the hub height is 13
- proposed for this project, for this Invenergy 14
- project, the Pleasant Ridge project? 15
 - A. I would be guessing.
- Q. Okay. Well, for the record, let me say, 17
- and I hope Mr. Blazer will stipulate, that the hub 18
- height is 80 meters. 19
 - MR. BLAZER: So stipulated.
- MR. LUETKEHANS: Okay, makes it a little 21 easier. 22
- 23 Q. So I was just kind of walking through your study areas and the first one I found was on page

Page 1108

- 1 85, so you'll want to go there. None of those hub
- 2 heights are up to 80 meters, correct?
- 3 A. Well, actually if you look at page 83,
- 4 which is a summary of the study areas, Howard
- 5 County, Texas; Custer County, Oklahoma, and Somerset
- 6 County, Pennsylvania, all have 80 meter hub heights.
- Q. Yeah, and there's -- clearly some of them
- 8 do. I just want to kind of walk through a little
- 9 bit at a time here.
- 10 A. Oh, okay.
- Q. So talking -- and maybe you can refer to
- whatever one you want. I'm just looking at my pages
- that I have tabbed. So none of the ones in Benton
- 14 and Walla Walla Counties and I guess Umatilla have
- 15 80 meter hub heights, correct?
- 16 A. Maximum is 60.
- Q. Okay. And then I'm going to Howard
- 18 County, Texas.
- 19 A. Yes.
- 20 Q. And we have Big Spring I and Big Spring
- 21 II. And Big Spring I has 42 turbines at 65 meters;
- is that correct? I'm looking at page 88. It might
- be easier. I'm kind of breaking them out, sorry.
- A. What page are you looking at?

- 1 which is here in Illinois, and we have hub heights
- 2 of 65 and 78, correct?
- 3 A. Maximum 78, yes.
- 4 Q. Okay. And the 78 is only 40 turbines?
- 5 The 78 hub height only has 40 turbines?
- 6 A. 40 turbines, yes.
- 7 Q. Okay. And here we had how many turbines?
- **8** 130 something?
- 9 A. 136, I think.
- Q. I think you're right. I couldn't remember
- if it was 36 or 38 off the top of my head. And then
- we get to about page 100, which is Kewaunee and Door
- 13 County. Kewaunee is K-E-W-A-U-N-E-E. I assume
- 14 that's up in Wisconsin?
- 15 A. Wisconsin, yes.
- Q. Okay. And they only -- again, only have
- 17 65 meter hub height, correct?
- 18 A. 65.
- Q. And now the next one I have is Somerset
- 20 County in Pennsylvania. On page 103 is that chart.
- 21 A. Yes

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- Q. Again, they have eight at 60 meters, six
- at 64 meters, and only twenty at 80 meters?
- A. Twenty at 80, yes.

Page 1109

Page 1111

- 1 Q. 88.
- 2 A. Okay, I think I'm ready.
- Q. Okay. Big Spring I has 42 turbines, but
- 4 those heights don't go above 65 meter hub height,
- 5 correct?
- 6 A. Big Spring I says 65, yes.
- 7 Q. Okay. While Big Spring II has 80 meter
- 8 hub heights, it only has four of them?
- 9 A. That's correct.
- Q. Okay. And then we have on page 91
- 11 Weatherford Wind Energy, and I guess that's Custer
- 12 County, Oklahoma?
- 13 A. Yes.
- Q. Those actually have a larger number of hub
- meters or hub heights at 80. I think between the
- both of them, it's about 88 or 98, correct?
- 17 A. 98, yes.
- Q. Okay. Then we get to page 94, which is
- 19 Buena Vista County in Iowa?
- 20 A. Yes.
- Q. And again, none of those have hub heights
- at 80 meters, correct?
- A. Maximum is 65.
- Q. Okay. And then we get to Lee County,

- 1 Q. Okay. And then at 106 we have Wayne
- 2 County, Pennsylvania, and we only have 65 meter hub
- 3 height, correct?
- 4 A. Correct.
 - Q. Okay. And then page 109 we have Madison
- 6 and Oneida, O-N-E-I-D-A, Counties, and their maximum
- 7 hub height is 67, correct?
- 8 A. Correct.
- 9 Q. And only seven turbines.
 - A. Correct.
- Q. Okay. And then finally on page 112, and I
- 12 think that's the last one, Madison County, New York,
- again the highest hub height is 66 meters, correct?
- 14 A. Correct.
- Q. And again, only 20 turbines.
- 16 A. Correct.
- Q. To your knowledge, has the underlying data
- 18 for the Berkeley reports ever been released to
- anyone outside of your team?
- 20 A. The copyright data?
 - Q. Yeah, the underlying data.
- 22 A. I'm not a hundred percent certain. When
- 23 you submit journal articles for publication, many of
- 4 the peer reviewed journals require you to post your

Page 1115

Page 1112

- final data set. I'm not sure if these particular
- 2 journals require that.
- Q. Okay. So you don't know what those --
- 4 A. I'm not a hundred percent certain about
- Q. You're not aware of people requesting them
- 7 and being turned down or not given them one way or
- 8 the other?
- 9 A. I'm not aware.
- 10 Q. Okay. One moment, please. Mr. Thayer, a
- 11 couple other questions, just real quick follow-up.
- You are being compensated by Invenergy to testify
- 13 here, correct?
- 14 A. Yes, I am.
- Q. Okay, I just wanted to make that very
- 16 clear. One second please. There was something I
- was thinking of and I drew a blank.
- Jason Carter, do you know who he works for now?
- 20 A. No, I don't.
- Q. You don't know that he works for Invenergy today?
- A. You're talking about the person who wrote
- 24 the master's thesis?

1 your name.

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MR. STEIDINGER: My name is BradSteidinger.

4 QUESTIONS BY

MR. STEIDINGER:

- 6 Q. Good evening, Mr. Thayer. I just have a
- 7 few brief questions. First of all, I'm not a
- 8 statistician. I'm just trying to wrap my mind a
- 9 little bit around the process of how this works.

On page 21 of the 2013 study, and you might not even need to look at it, it's a real broad question, it says, "the home sales utilized were

- 13 from January 18th of 2005 to September 30th of
- 14 2011." That's about a six and a half year span; is
- 15 that correct?

A. Yes, sir.

- Q. About approximately. Okay. I guess I'm
- 18 trying to figure out how you account for a housing
- 19 recession in that time period. That was right in
- 20 the midst of when the housing bubble started and
- 21 housing declined and increased afterwards and
- 22 hopefully is still continuing. How is that taken
- 23 into account?
 - A. We use real dollars, so we do discount for

Page 1113

- A. At Illinois State which our papers cite? 2 into constant dollars. So I thi
- 3 No, I have no -- I have never met the person nor 3 put eve
- 5 140, I have no -- I have never met the person nor

Q. At Illinois State that you --

- 4 have any idea who he is.
- 5 Q. Fair enough.
 - **MR. LUETKEHANS:** Thank you very much.
- 7 A. You're welcome.
 - **CHAIRMAN CORNALE:** All right, Mr.
- 9 Luetkehans, you're --
 - **MR. LUETKEHANS:** I'm done, I'm sorry.
- 11 When I said thank you very much, that's what I
- 12 meant.

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CHAIRMAN CORNALE: Okay, very good, very good.

MR. LUETKEHANS: Sorry. Everybody kept looking at me and I guess I wasn't clear.

17 CHAIRMAN CORNALE: No, that's all right,

- that's all right. I believe the board may have some questions. We'll ask the audience if they have any
- 20 and then -- okay, any interested parties in the
- audience not represented by counsel that may havequestions for Mr. Thayer?
- All right, come forward. If you can come to the podium and make sure that it's on. State

- what's happening in the market to put everything
- 2 into constant dollars. So I think in that study we
- 3 put everything in 2011 dollars. And so in some
- 4 cases you're inflating, some cases you're deflating
- $\,\,$ 5 $\,\,$ to get the 2011 dollars. So it's real dollars as
- 6 opposed to nominal dollars.
- 7 Q. Okay. And what is your guideline for
- that? Is that based on regional data or how do you
- 9 come up with that?
 - A. It's regional and mostly -- most of the
- 11 time we used a county quarter adjustment. You know,
- in some cases -- again, these are robustness-type
- 13 issues. Sometimes use a county quarter adjustment,
- 14 sometimes use a census tract quarter adjustment, so
- it can either be very fine or a little bit less
- 16 fine.

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- Q. And how do you determine which one you
- want to use in certain circumstances?
- A. We try different ones and then test
 whether or not they affect the results. That's the
 sensitivity analysis or robustness.
- Q. Okay, all right. A couple things that I didn't see mentioned, and I apologize if it is, but
 - population density in the particular counties,

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Page 1116

- there's --I think there's what, 27 counties if I 1
- remember right that were talked about. Is there any
- consideration given to the density of the 3
- population? 4

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- A. Yes, there's -- in the hedonic model,
- there are several different types of variables that 6
- are included in the analysis, so structural
- characteristics that go with the home, square
- footage, age of home, those kind of things. There's 9
- environmental variables. How far you are from 10
- central businesses, so there's distance type things. 11
- And there's also neighborhood variables. So 12
- density, population density would be considered a 13

neighborhood variable. 14

The way we take that in consideration is several different ways. One is you can use census data, that's one option. Another option is to use what's called a fixed effects model, so you get a dummy variable for each census tract which kind of combines all the census variables into one measure

21 for the census tract.

So again, these are things that are 22 subject to sensitivity analysis and robustness, and 23

24 we will use the fixed effect model and come up with likely you would to see them.

We also in the 2009 study ran a little 2

3 model where we could predict -- rather than use our

- photographs, where we could predict visibility based
- upon things like distance, hub height, et cetera, et
- cetera, and both use two different ways of measuring
- 7 visibility. So only in a limited way was height
- taken into consideration. 8
- 9 Q. So it's really -- it's really subjective to the person who viewed the site to determine what 10 11 level the scale is on their view basically?
- A. Well, okay, in the 2013 study we did not 12 13 consider visibility, so only --
 - Q. No visibility in 2013.
 - A. Right, only the proximity. So in 2009 we did look at visibility. We visited over 6,000 homes and took pictures from the homes, and then every home was given a visibility rating based upon the photographs, okay? So now we have this measure of visibility, and so we also try to predict visibility based upon things like hub height, number of turbines, distance, et cetera, and that was another
- way we entered that into the model to see if that
- had any effect as well.

Page 1117

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Page 1119

- a zero-one variable for each census tract, and then
- 2 we'll try to use census data, different measures of
- census data, whether it's housing density, 3
- population density, et cetera. We try all these
- different things and see if they have any effect 5
- upon the results. 6
- 7 Q. So you use various factors throughout the
- country. 8
- A. Well, we use census data. They vary by 9
- census tract. 10
- Q. But your factors are going to vary 11 throughout the country. 12
- A. They're going to vary quite a bit, yes, by 13 census tract, yes. 14
- Q. Okay. One more thing I didn't mention --15
- I didn't see mentioned was the turbine size. I know 16
- -- how is that accounted for? 17
- A. In -- it's not. When -- both in the 2009 18
- study and the 2013 study, we're using distance as 19
- one measure of proximity to the turbines, so using 20
- distance, we're not using height. And in the 2009 21
- study, we also looked at whether or not the home 22
- could see the turbine, so height could be a factor 23 there, I suppose. The taller you are, the more

- Q. Okay. 1
- A. So there are two different ways to look at 2
- visibility. 3
- Q. So when the team or the person, whoever is 4
- judging this visibility and assigning a rate, or 5
- however you do that, is that a group effort? Is 6
- 7 that an individual doing that?
 - A. Well, first --
- 9 Q. You average it? I mean --
- A. Okay, first of all, you got to take the 10 pictures. 11
- Q. Sure. 12

- A. And then they're evaluated. And it was 13
- evaluated by a team of individuals. We also looked
- pretty extensively at the literature on how people 15
- perceive things, et cetera. So there's a -- I'd say 16
- a pretty extensive write-up in the report about the 17
- process and the literature that goes into it, so 18
- 19 veah.
- 20 Q. Okay. One more question about the actual
- 21 -- I don't know what the number is, approximately
- 51,000 homes in 2013, I'm not quite sure what the 22
- 23 number was, there's a discrepancy there, but were
- all homes -- I know we talked about the 15 mile and 24

Page 1120

- the things you guys covered previously. Were all
- homes that were sold in that time period in the
- database initially, in the set to begin with? 3
 - A. I'm not sure I understand. First, 15
- miles -- no, not 15 miles. 15 acres.
- Q. I'm sorry, yes. I'm sorry, 15 acres, yes. 6
- A. That's okay. 7
- Q. I'm just saying any homes that were sold 8
- in 2005 -- between 2005 and 2011, in your time
- period that you worked with, were all sales in that 10
- 11 database set to begin with in the particular
- counties that you were working with or was there a 12
- selection process of which ones you chose? 13
 - A. There is no selection process, but there is a filtering process. So what happens is --
- Q. Well, I don't mean to cut you off. I 16
- 17 don't want to get into the filtering process. I'm
- just trying to say were all the homes initially in 18
- 19 the set?

14

15

- 20 A. Yes, they're all in the set.
- 21 Q. Okay.
- A. Some don't qualify if you don't have 22
- 23 square footage, you know, et cetera, et cetera. If
- 24 the variables are not populated, you can't use them.

- distance to central business district or something
- like that. So a lot of data, a lot of variation of 2
- data helps to identify these other characteristics.
- Those are other types of treatments, but doesn't --4
- it's not our focus, but it helps you identify those 5
- other variables, the value of those other variables. 6
- 7 Q. Okay. The last question I have is, or
- last area here, we have 331 homes within a half mile 8
- 9 out of a total of 51,276 or whatever that number is.
- I guess my question is how -- having such a large 10
- 11 percentage or small percentage of those, I think
- it's less than half a percent is our subject area 12
- 13 that we're really concerned with, how can we justify
- such a small number when we're using such a big data 14
- 15 set to offset those numbers?
 - A. Okay. That's a, you know, a really fantastic question. So remember the homes outside three miles or whatever, those are our control
- group. The ones inside a half a mile, for example, 19 20 that's our treatment group.

Okay, you can have a treatment group that's too small. So that's really the question you're asking, is the treatment group too small?

You can do that. And if you have a treatment group

Page 1121

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- Q. Okay. All right. Another question on the 1
- 2 -- excuse me just a minute here. Okay, of the
- 51,000 whatever that was, 51,159 are between three
- and seven miles, does that sound about right, from 4
- the 2013? 5
- A. Approximately. Approximately, that's 6 7
- Q. Okay, why -- I guess I'm trying to figure 8
- out why we would need that many homes to determine
- this information. 10 11
- A. Well, the homes outside three miles are what would be considered the control group. So you 12
- have a treatment group, people that -- homes that 13
- are close to turbines, those are being treated, 14
- they're close to a turbine, and then the control 15 group is anything else outside three miles. That's
- 16 part of the control group. 17
- You cannot have a control group that's too 18 18
- large, all right? So there's no such thing as a 19 control group that's too large. You can have a 20
- control group that's too small but not too large. 21
- So why do you want that many data points? 22 Because it helps us identify the value of other 23
- characteristics, let's say square footage or 24

that's too small, then what happens is your results would be highly unstable, spurious correlations, et 2 cetera. And if you did robustness testing, you 3 would find out that your results would change dramatically.

And so what we find is that our results are very stable to whether we include or exclude observations, whether we include or exclude different variables, whether we change functional form, et cetera, et cetera. We find that our results are extremely stable. So it leads us to believe that our treatment group is not too small.

But that's a reasonable question, the treatment group could be too small, but you can test for that by seeing are your results stable. If -again, if you think about this, if your treatment group is too small and you take out one observation, then the results are going to bounce all over the place. But in our case, we don't see that happening at all.

- 21 Q. In Section 3.3.4, it says using homes between five and ten mile for your references --22
- 23 there's a sentence here I want to read. It says,
- "If homes outside of three miles are affected by the 24

Page 1123

Page 1124

- presence of the turbines, then effects estimated for 1
- the target group, e.g., those inside of one mile, 2
- 3 will be biased downward in the base models."

So basically what you're saying is if 4

- there's an acknowledgment that we -- if there's more
- of an effect than we guess at the three mile range, 6
- then it could be a bigger effect on the shorter
- range. Am I understanding that correctly? 8
 - A. Yeah, you understand correctly, yes.
- O. Okay. 10

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11 MR. STEIDINGER: That's all I have. Thank 12 you.

CHAIRMAN CORNALE: Thank you. Anyone else 13

from the audience have any questions for Mr. Thayer? 14

Anybody out there? 15

All right. County staff and consultants, 16 anything at this point?

17

All right, I believe the board does. I 18

19 know I have some. Joan, do you have any? Do you

want to go or do you want me to go? 20

- **MS. HUISMAN:** I have a couple.
- **QUESTIONS BY** 22
- 23 MS. HUISMAN:
- Q. Could you explain or help me understand, 24

- to the total available and see if those ratios
- between sales and homes available are similar across
- 3 space. So we -- it's an attempt to look at time on
- the market. We don't find any effect there, but
- it's not the best way to go about doing it.
- Actually what you'd love to have is actual days on
- 7 the market.
- Q. Is that not tracked? 8 A. It's not available in electronic form in 9
- the kind of bulk work that we do. 10 11 Q. So the time on the market, comparing like
- asking price to selling price, wouldn't be a 12 13 measurable -- or that information would not be out
- there electronically either? 14
- 15 A. Asking price and selling price may be available through the MLS, something like that, but
- 16 17 the county assessor's records of actual homes sold
- and their associated characteristics do not include 18
- 19 things like asking price, days on the market, et
- cetera. There is information about the buyer of the 20 21 home, the seller of the home, the financing, the
- characteristics, but those variables you're 22
- 23 interested in are not in the county assessor's
- 24 records.

Page 1125

Page 1127

- does the hedonic model take into account the number
- 2 of days a home is on the market?
- A. The hedonic model, we have estimated it 3
 - does not take into consideration the number of days
- on the market. The dependent variable, the variable
- we're trying to explain, is the actual home sale 6 price, and we're trying to explain that by looking 7
- at the characteristics of the home. And days on the
- market is not a characteristic of the home. 9
- Q. Okay. So the sales volume model, I think 10
- I saw that referenced in your -- it's maybe on page 11
- 11 of your -- the 2009. It's Exhibit 31. 12
- A. Yes. 13
- Q. Description of the statistical models. 14
- The sales volume model, would that take into 15
- consideration number of days on the market? 16
- A. That's an attempt to take into 17
- consideration days on the market. We don't have 18
- information on days on the market. You know that if 19
- you list your home on MLS, they keep track how many 20
- days it's on, if you take it off, et cetera, so it's 21
- hard to get that data on days on the market. 22
- 23 So what sales volume analysis tries to do is by area figure out the number of sales relative

- Q. It's just a missing link for me. In the 1
- homes that I've sold and the times that I've moved, 2
- 3 how long it's on the market directly affects do we
- keep the price where it's at or do we drop it, do we 4 drop it, do we drop it? And it just seems like that 5
- is just missing for me in any of these studies. 6
- A. I agree with you. The only thing I can 7 say is that if a home is on the market for a long
- time and then the price is lowered and the price is
- lowered, et cetera, your scenario, well, that will 10
- show up in the final sale price, that that price 11 will be much lower than anticipated. And so it will 12
- 13 show up in the final price, but it's an indirect
- measure of time on the market. And I agree with 14
- you, it is a problem not knowing that. 15
- Q. Especially if there's no repeat sale, you 16
- know, so you wouldn't have a sale -- or a prior sale 17 to measure, to have in your model, and then have the 18
- repeat sale later, so you couldn't measure if it's a 19
- higher or lower selling price. 20
- 21 A. Well, we do some repeat sales stuff and other authors have also done repeat sales. The 22 23 results are consistent with the hedonic modelling.
 - There's no effect of wind turbines on market prices

Page 1128

- using repeat sales. The problem with repeat sales 1 generally is that the data sets are smaller and so you're not as comfortable with the results because
- you're dealing with a much smaller data set.
- O. All right. 5

6

7

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MS. HUISMAN: That's all I've got for now. **QUESTIONS BY**

CHAIRMAN CORNALE:

- Q. All right, Mr. Thayer. Just so I can be 9 sure that I didn't miss anything, within the studies 10 11 there are some homes within Illinois, but there are no homes within the county. You've not used any 12 within our county within either study. 13
- A. That's correct. 14
- 15 Q. Okay. Is there any reason why you might not have when you redid it in '13? 16
- 17 A. I'm not sure. You know, the -- it may be the data available is not available, maybe -- I just 18 19 don't know.
- 20 Q. Okay.
- 21 A. I'm not sure why certain counties in the
- United States were chosen and some were eliminated. 22
- Usually it's related to data availability. So, for 23
- 24 instance, we don't choose anything in California.

- post-announcement data doesn't actually exist for
- 2 the other two counties.
- 3 A. No, post-announcement/preconstruction --
- let's say, call it post-announcement/preoperation, they have data there, and it shows an effect there, 5
- a negative effect, but that's consistent with the 6
- 7 Hinman study, anticipation stigma. So that during
- this period of time when -- before the turbines are
- operational but after they're announced, the period
- you guys are in right now here, it looks like in 10
- 11 some studies there is a dip in property values. We
- did not find it in our 2013 study, but Hinman found 12
- 13 it and so did Heintzelman and Tuttle.
- Q. Okay. All right. We've talked a lot 14 15 about the hedonic model and your cost basis for
- features and variables of interest, and we've talked 16
- 17 about views of wind turbines. As I went through
- this the first time, I put a question underneath my 18
- 19 PowerPoint that said, okay, now what? And what I
- mean by that is we have a view of -- we have a home 20
- 21 and we have a view of a wind turbine and it's
- extreme. What do we do? Do we add value, do you 22
- 23 subtract value, in your hedonic model? You add for
 - characteristics, add or take away for

Page 1129

Page 1131

- There's no data available for homes sold before the
- 2 turbines were in place. And so usually it goes back
- to data availability. So I'm not sure what the 3
- situation is in Livingston County. 4
- Q. Okay. We talked about the Heintzelman 5
- study briefly and something -- a light went on as we 6
- talked about that. You made the remark that there 7
- was no post-construction sales data. That's 8
- discerning to me. Is it that homes didn't sell 9
- because the turbines went up? 10
 - A. The -- no, that's an interesting
 - interpretation. In their study, they look at three
- different counties and the data -- their data set 13
- spans through the year 2009, okay? In two of the 14 counties, the wind turbines were not yet operational 15
- when their data set ended. 16
- In the one county, Lewis County, the 17 facilities were operational in 2006, and so they do 18
- have data post-construction in Lewis County, and 19
- they find that wind turbines have no effect on 20
- nearby property values. So in the one county in 21
- which they did have post-construction data, their 22
- 23 results are the same as everybody else.
 - Q. Okay. But post-announcement --

- characteristics. What does your study do? 1
- 2 A. Well, we don't add or subtract. What our model does is the dependent variable is the price. 3
- The right-hand side, the independent variables, are 4
- 5 structural characteristics, neighborhood
- characteristics, et cetera, those are actual data. 6
- 7 So the variable we put in for extreme view, we put a
- one for extreme view. And all other homes that
- 9 don't have extreme view would receive a zero for
- that variable, one-zero. We would run our model and 10 our model would tell us what the value of having a 11
- one is relative to a zero. 12

13 So we're not -- so what an appraiser would do if -- if the appraiser took our information and 14 15 said, oh, I have a view of a turbine, should I add or subtract for a turbine? If he took our 16 information, he'd say I don't do anything because

- 17 view of turbines is not significantly different from 18 19 a zero. So he wouldn't add or subtract.
- Q. After you process the one or zero within 20 21 the model --
- A. Remember, it's -- maybe I'm confusing you. 22 23 There's a -- you have 7,000 homes with the prices on the left. That's a dependent variable. A bunch of

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Page 1132

- 1 independent variables, so the square footage of all
- 2 these homes, 7,000 square foot -- 7,000
- 3 observations. Views, some have zeros, some have
- 4 ones, some -- you know, et cetera, et cetera. So
- 5 it's a variable measured as a zero or a one, on/off.
- 6 Do you have a view, don't have a view? Are you in a
- 7 census tract, not in a census tract? Are you in
- 8 this, are you in that? Do you have three bedrooms,
- 9 two bedrooms? Those are all variables you're
- 10 putting in there, and you're using statistics to try
- to figure out what's the value going from a zero to a one.
- Q. Okay, that's what I'm asking then. What's
- 14 that value --
- 15 A. In our study --
- Q. -- in real dollars?
- 17 A. In our study, zero.
- 18 Q. In real dollars.
- 19 A. Zero because there is no effect. There's
- 20 no -- wind turbines are not negatively affected by
- 21 extreme views, so the answer is zero in real
- 22 dollars. That's the point of the study.
- Q. I understand, but I'm still confused. By
- 24 putting a one or zero, then it doesn't matter.

e of all 1 And so in the case of -- maybe it's

- better, let's move away from view. So in the case
- of -- forget about view. Let's take another
- 4 characteristic like a pool.
- 5 Q. Okay.

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- 6 A. All right? So again, homes that would be
- 7 characterized as no pool, they'd receive a zero in
- 8 the pool column, or a one if they would have a pool.
- 9 By running the analysis, you can figure out what the value of the pool is.

In California, right, this is not a -- in California if you did this, you would see that a pool is worth about 7 percent of home sale price. So the number you get is .07 as your coefficient, so 7 percent. So in San Diego, the average spread on median price is \$450,000, so a pool is worth \$30,000. So that -- and that comes from hedonic analysis of data in San Diego.

And now if you did the same thing in central Illinois, a pool probably would be worth a little bit less.

- Q. Right, okay. Value to me, and probably several others, is dollars, dollar bills, and --
 - A. In the pool case, I gave you the dollars.

Page 1133

Page 1135

- 1 A. The one or zero is a -- is a marker for
- 2 the statistics. So, okay, think about this. Here's
- 3 a new way to think about it. Let's say we took all
- 4 the homes that had zeros, all right, and let's take
- 5 the average price of all the homes that have zeros,
- 6 they have no views, so we get a number X, right?
- 7 Now let's take all the homes that have a one, they
- have to have a view, right? Let's take the average
- 9 price for those homes.

In our study, the average price of the homes that don't have a view and the average price of homes with a view are the same, statistically the same, everything else held constant.

- Q. Why do you go through the trouble of deciding whether it has a view or not if it makes no
- **16** difference?

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- 17 A. We don't know a priori that it makes no
- 18 difference. We're trying to figure that out.
- 19 That's the point of hedonic study. What is the
- value of a view? What is the value of another
- 21 bathroom? What is the value of having a pool or not
- 22 having a pool? That's the point of hedonic
- 23 modelling. You try to figure out the value of each
- 24 characteristic.

- 1 Q. Right, okay.
 - A. In the wind turbines -- in the wind
- 3 turbines, we can't -- there is no difference in
- 4 dollars. That's the point is that we don't see any
- 5 difference. And not only our studies, but all the
- 6 studies that have been done like ours find the exact
- 7 same thing. We just don't see anything.
- 8 Q. So all characteristics the same between
- 9 the zero group and the one group, take out -- take
- 10 the same sample size, sample size being the same,
- 200 with a zero and 200 with a one, I would find no
- 12 difference.

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- A. You would find no difference. You would
- 14 have a hard time finding 200 with a view and 200 --
- 15 I mean it's easy to find 200 without.
 - Q. Okay, let's shrink my sample size.
- 17 A. Those -- really, sample size is not the 18 issue here.
- Q. It's pool. I understand the theory of
- pool. The larger the pool, the lower -- averageswork.
- A. Okay, you find no difference. That's -- that's what our results show, yes.
- Q. Okay, all right. Amongst one of the last

Page 1136

- 1 pages of your study, it says statistically
- 2 significant. What's the threshold of it is
- 3 significantly -- statistically significant and not?
 - A. Well, usually academic studies use either
- 5 a 1 percent or a 5 percent error bound, but in this
- case, because we're really looking hard, we want to
- 7 make it easier to get into, to make it, we use 10
- 8 percent.
- 9 Q. 10 percent.
- 10 A. Yeah, so 10 percent is the rejection
- 11 region. So it's a bigger rejection region, so it's
- 12 easier to get into the rejection region, so if you
- use 1 percent or 5 percent or 10 percent. So we're
- 14 kind of applying something and so we're allowing a
- 15 larger rejection region --
- 16 Q. Okay.
- 17 A. -- or critical region.
- Q. So of the -- I don't have the exact
- 19 figure. We have it in the record. Of the 600
- 20 homes, let's say, that would be within the wind farm
- 21 footprint, there's a possibility that 60 of those
- 22 homes could fall outside of the significantly --
- 23 statistically significant area and still hold your
- 24 sample -- hold your study true. Sixty homeowners

- 1 A. It's -- the problem is that you're using
 - 2 -- we're using 10 percent in two different ways. So
 - 3 10 percent is my rejection region, and you're using
 - 4 it, okay, let's take 10 percent and multiply it
 - 5 times 600 and get 60. I'm not sure those are
 - 6 comparable. I'm a little worried about that there.
 - **7** But it is true --

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- Q. Could you not throw out the 60 and call
- 9 them your -- whatever you just -- rejection region
- and hold your study true?
 - A. Well, if -- what do you mean throw them out? I'm not sure what throw them out means.
- Q. Well, reject them, reject the -- reject
- the sales data of those 60 homes. It would leave
- 15 you 540 valid --
- 16 A. Okay, we wouldn't reject them, but the
- point -- this is a really good point. If statistic
- -- in our past, if we show there is no statistically
- 19 significant difference between homes near turbines
- 20 and homes far away, that's our standard, okay?
- 21 Given that, it is certainly possible that some
- 22 number of homes, a small number, could have negative
- or positive effects, yes, it's true. Whether or not
- 24 the number's 60 is what I'm not sure about.

Page 1137

Page 1139

- potentially in the audience this evening that could
- 2 fall within that area and be affected positively or
- 3 negatively by a wind farm; is that -- is that
- 4 correct?

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- A. That's -- I'm not sure that's an
- 6 appropriate interpretation. It's not how
- 7 statisticians think about a critical region, so I
- 8 would have to think about that. I'm not -- I don't
- $\,$ 9 $\,$ think that's correct, but I've never heard it
- 10 expressed that way.
 - The way the -- the way the test is set up is that the -- no hypothesis is that the effect is
- zero, okay? So in order to reject the no
- hypothesis, so there is an effect either positive or
- 15 negative, you have to have a statistic that gets you
- into this rejection region, and that depends upon
- the size of the estimated coefficient and itsstandard error.
- So the question you're asking is -- I'm not a hundred percent certain about that. You asked
- not a hundred percent certain about that. You askit in a way that I've not quite heard before. It
- certainly is possible that what you're saying istrue.
- Q. All right. I mean I --

- 1 Q. I understand. And I don't -- by no means
- 2 am I holding you to the 60. I just threw out 600 as
- 3 an arbitrary number. I had it at one point in time,
- 4 and, like I said, it's in the court report exactly
- 5 how many homes potentially are in the wind farm
- 6 area.
- 7 A. There's no doubt that even though we do
- 8 not find a statistically significant effect, there
- 9 is certainly the possibility that homes can be
- affected negatively or positively, but the number ofthose homes have to be either quite small or the
- effects quite small or we would've been able to capture it.
- Q. You possibly capture or reject it.
- 15 A. Well, now you're using the word rejection.
- 16 Reject them, we don't throw them out. Reject is
- 17 where we're using our statistics to compare to the
- 18 rejection region. So when we estimate our
- coefficient, we get .04 and we get, you know, a standard error of .08, so one divided by the other
- 21 is .5, that's our key statistic. But in order to
- 22 get into the rejection region, you need a key of 2.
- 23 This is only .5, so we reject no hypothesis. We
- 24 cannot reject no hypothesis. So that's -- so reject

Page 1140

- ${\tt 1} \quad doesn't \ mean \ we throw \ them \ out. \ We \ don't \ throw \ the$
- 2 data out.
- 3 Q. All right.
- 4 A. But your point is well taken that you
- 5 could find examples of homes that are negatively or
- 6 positively affected even though we don't find
- 7 anything statistically different from zero. But the
- 8 number you find that are positive or negative must
- 9 be either small or the effect small or we would have
- 10 been able to measure it more precisely in our
- 11 statistics.
- Q. Okay. So I've got this chart in front of
- your -- in the front of your PowerPoint. And as we
- 14 talked about relative values, we talked about
- transmission lines, and I think you talked about it
- specifically. And it shows a minus 9.3 percent.
- 17 Along with that, there was a submittal for the trans
- 18 -- I don't know what number it is. I'm not sure.
- 19 A. On the transmission lines, that's minus
- 20 9.3 percent if you're within 500 feet of a
- 21 transmission line.
- Q. Okay. So certainly is it realistic to say
- that all of the homes that are adjacent to the
- 24 proposed transmission line route or the transmission

- 1 Q. Okay. Do you believe them?
- A. I believe that in Massachusetts, if you're
- 3 within 500 feet of a transmission line in their
- 4 study area, the home value is 9.3 percent less than
- 5 it would be, everything else in the world constant.
- 6 Q. Okay. So if you have a home and then a
- 7 transmission line goes up next to it, within 500
- 8 feet, would it be safe to assume that your home
- 9 might be devalued 9.3 percent?
- 10 A. If you're within 500 feet in
- 11 Massachusetts, in your scenario, from that study,
- 12 yes.

14

- 13 Q. Okay.
 - A. Now, there -- now, that Massachusetts
- study, there's a bunch of literature on transmission
- 16 lines.
- 17 Q. Okay.
- 18 A. And one of the guys on our team, Tom
- 19 Jackson, he's like the king of transmission lines.
- 20 So I wouldn't just use this one study. I would look
- 21 at scientific literature. There's probably 50
- 22 studies on transmission lines.
- 23 Q. Okay.
- A. And some of them have -- it's a negative

Page 1141

Page 1143

- 1 line 75 feet from the property line, those would be
- 2 affected negatively 9.3 percent.
- 3 A. Well, you have to be careful now because
- 4 this 9.3 percent is holding everything else in the
- 5 world constant, okay? So it's -- so, you know, you
- 6 -- if you go close to a highway, that also has
- 7 either a positive or negative effect. If you're
- 8 close to the central business district, that has a
- 9 positive or negative effect. If you have water
- 10 access, you know, blah, blah, blah.
- 11 Q. Okay, but those don't change.
- 12 A. I don't know.
- Q. A home, a home that's there now --
- 14 A. In --
- Q. -- and then a transmission line is built.
- 16 A. In Livingston County?
- 17 Q. Yeah.
- 18 A. This is for Massachusetts, in an urban
- 19 area, but --
- Q. Okay, but I mean it's your numbers.
- 21 A. No, these aren't my numbers. These are
- 22 from a study.
- Q. Okay, but you've given them to us.
- 24 A. Right.

- 1 if you're within 50 feet or 100 feet some of them
- 2 have. So you have to be careful about using one
- 3 single number. But yes, the literature on
- 4 transmission lines definitely suggests there's a
- 5 negative impact close to the line, 100 or 500 feet.
- 6 Q. And that was actually an attribute of your
- 7 hedonic model was the portability?
 - A. The transferability.
- 9 Q. Transferability --
- 10 A. Yes.

- O. -- to use here and use there. You said
- 12 that that was a positive.
- 13 A. Yes, it is.
- 14 O. And so --
- 15 A. Yeah, and so again -- but again, you want
- to use the entire literature and not just one study.
- 17 O. Sure.
- 18 A. And you'd find -- I can't believe we don't
- 19 have another one for transmission lines. Talk to
- 20 Jackson, he's not going to be happy about that, but
- 21 anyway, he's done, I don't know, 20 studies on
- 22 transmission lines.
- Q. Okay, okay. Have they generally been --
- A. Generally there's a negative impact --

Page 1144

- Q. Okay. 1
- A. -- very near transmission lines and it 2
- dissipates very quickly. So that's the other
- problem is that if you're a hundred feet, you might
- have a 10 percent reduction, but if you're 300 feet,
- it might be 2 percent in his work. So it dissipates 6
- very quickly. 7
 - Q. Okay. So as I go back to your -- one of
- your final statements in your study, no evidence
- that homes near operating or announced wind turbines 10
- 11 are impacted in a statistically significant fashion.
- A. Yes. 12

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- Q. Do you still agree with that statement? 13
- A. Well, first of all, we've done two very 14
- 15 large studies that have found that, and the rest of
- the literature in the United States, Canada, et 16
- 17 cetera, have found the exact same thing. There's
- nobody that's done a study that's contradicted our 18
- 19 work.
- 20 Q. Okay.
- 21 A. So the latest scientific information
- suggests, yes, I stand by that. 22
- 23 Q. Okay, even though, I mean, transmission
- 24 lines are a significant part of a wind turbine

- let me just check here.
- A. I mean highways are something that can 2
- 3 have sometimes a negative effect, sometimes a
- positive effect. It improves access, which is a
- positive effect, but noise may be a negative effect.
- So if you're going to build a new highway --6
- 7 Q. Okay. Has the noise factor been
- considered with wind turbines? 8
- 9 A. Well, again, I think I answered this
- yesterday. We don't have any measure of noise at 10 each individual house in our data set. What we do
- is proxy noise by looking at distance. 12
- 13 Q. Okay. That would be the similar proximity to an interstate. 14
- 15 A. Exactly.

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- Q. Gotcha. Okay.
- A. We don't have any other measure, so --
- Q. Okay. It looks like I went through my 18 19 auestions.
 - CHAIRMAN CORNALE: Does the board have any other questions? Joan, do you have anything else?
 - MS. HUISMAN: No.
- CHAIRMAN CORNALE: You guys have anything 23
- 24 else? Okay, Mr. Thayer, thank you.

Page 1145

Page 1147

- operation, and you've proven to me that we devalue
- homes along that, they just fall into that 2
- statistically insignificant region. 3
- A. Well, if you had a transmission line that 4
- was 1500 feet, you wouldn't have any effect. 5
- Q. Okay. I mean I -- you can come over and 6
- look at it, but I mean some of these are like
- transmission lines 75 feet from the property line.
- You know, without having the exact home overlay on 9
- this, I'm confident that there's going to be homes. 10
- I mean they're on corners of intersections and 11
- whatever else, so --12

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- You feel like those, those homes,
- unfortunately for the homeowner, fall in that zone 14
- of statistically insignificant. 15
- A. In our work on wind turbines, we did not 16 look at transmission lines. So if there are homes
- that are -- that are within 100 or 200 feet of a 18
- transmission line, there may be an effect. 19
- Q. Okay. Transmission lines are critical to 20
- the -- to the wind turbine. Is that you have -- is 21
- there anything else that might have been overlooked? 22
- 23 A. I'm not sure --
 - Q. I'm not sure, you know what I mean? Okay,

- **MR. SLAGEL:** I have a couple unless we're 1 2 pressed for time.
- CHAIRMAN CORNALE: Come on up. If you can 3 make them quick because we kind of did close down 4 5 the public --
- **MR. SLAGEL:** All right, yeah, sorry. 6
- CHAIRMAN CORNALE: Yeah. No, that's fine. 7
 - **OUESTIONS BY**
- 9 MR. SLAGEL:
- Q. Hello? Okay. I'm John Slagel. So my 10
- particular question is this. What concerns me is 11
- you came here and you say wind turbines will not 12
- affect your property values in a statistical way, 13
- whatever, right? 14
 - A. Yes, sir.
- Q. Okay. So I have a very small rental house 16 outside of Fairbury here. Its main attraction is 17
- it's very quiet, on a quiet road nobody goes on, 18
- 19 about the only house on the road, okay? Lots of
- wind comes from the southwest, no houses that way, 20
- 21 clear panoramic view. When the wind farm comes
- here, I'm going to have three turbines within a 22
- 23 90-degree view at 1800 foot, 1800 foot and 2400
 - foot. So your study is saying that my particular

Page 1148

- 1 house is not going to lose value? Or in general.
- 2 Mine might, but somebody else's will gain? How does
- 3 it apply to my exact situation?
- 4 A. That's a tough one.
- Q. Well, you're saying it won't change the
- 6 value, so I shouldn't worry about the wind farm?
 - A. Our expectation from all the literature is
- 8 that nearby property values are not affected by wind
- 9 turbines, either proximity to wind turbines or view
- 10 of wind turbines. That's the results of the
- 11 scientific literature.
- Now, a specific home, it's impossible to
- 13 comment on a specific home. You just don't know.
- 14 There's so many variables. I just -- you just don't
- 15 know.

7

- Q. Okay. Although, as a statistician, I
- would think that would be your job. In the 2013
- 18 study, I was looking at the appendix with the full
- 19 results. What I wanted to do, I wanted to look at
- 20 this and say how much is he saying a pool affects
- volumes, how -- you know, has a pool, for example.
- 22 A. Pool is not in this study.
- Q. Okay. What would be in this study that I
- 24 could look at this number and say this affects by --

- 1 Q. Okay.
- 2 A. And so if you have an extra bathroom, you
- 3 increase the price of your home by 15.6 percent.
- 4 That's what the results show.
- 5 Q. Right, okay. And so you're saying
- 6 somewhere on here there's numbers for the windmill
- 7 and they say 0.000 and 0.000 depending on distance.
- 8 Like there's a number here somewhere that you said
- 9 is for an extra bathroom, right?
- 10 A. Yes.
 - Q. Okay. So where's the number for I'm
- within a crappy view of a windmill?
- A. The 2013 doesn't have view. 2013 only
- 14 has --

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- 15 Q. Distance.
 - A. -- proximity.
- Q. I'm in a dangerous distance to the
- 18 windmill, how's that?
- 19 A. Let me see. I'm trying to find the exact
- 20 one I want to give you.
- Q. Find the bathroom one and then find the
- 22 comparable windmill one, distance to a windmill.
- A. For example, post-construction within a
 - half a mile, it's the number's minus 1.2 percent for

Page 1149

Page 1151

- 1 like you said something might affect it by 7
- 2 percent.
- 3 A. Well --
- 4 Q. Because you did this hedonic model, or
- 5 whatever, that supposedly proves that a basement
- 6 removes this much value, all these sort of things,
- 7 and you add all this up and that's X value of the
- 8 house, right?
- 9 A. Right. We -- we don't have data on every

10 one of these variables, but --

- Q. You said you take everything from one
- house to another and take that into account and you
- assign a number to it so that you can basically
- 14 nullify those numbers out and the only thing left is
- the wind turbine and now we see that's zero. So you
- can account for every characteristic of a house in
- your hedonic model, right?
- 18 A. If the data was available, yes. Now, what
- 19 we do in this particular one, let's look -- if you
- 20 look at page 28 --
- Q. I don't have the --
- A. -- a bathroom is worth 15.6 percent.
- 23 O. Okay.
- A. That's what a bathroom is worth.

- 1 within a half mile of a windmill.
 - O. Okav.
 - A. But it's not different from -- we can't
- 4 tell it's different from a zero.
- 5 Q. Right, okay. Well, it's minus 1.2 at half
- a mile, so what is it at three miles?
- 7 A. Well, that's not -- that's not part of the
- treatment group. So it's -- the treatment group is
- 9 either within a half mile or a mile.
 - Q. Okay.
- 11 A. What we find is that within a mile, the
- number's not negative but positive 6.3 percent.
 - Q. So they went up by --
- A. So they go up by 6.3 percent. Again,
- that's not statistically different from zero, so we
- 16 would call it zero.
- Q. That's one thing to call it.
- 18 A. The different -- yeah, okay.
- Q. The other thing is you only accounted for
- 20 distance, but there is, like you said, transmission
- 21 lines you didn't account for. You didn't include
- whether the house has flicker or not.
- A. We only used proximity in the 2013 study.
- **24** Q. Okay.

Page 1152

- 1 A. In --
- 2 Q. It's common sense if a house has flicker
- 3 and another one doesn't, that house will be less,
- 4 right?
- 5 A. We don't have information on flicker.
- 6 Q. Okay.
- 7 A. We only have proximity.
- 8 Q. Okay. So you're saying a bathroom impacts
- 9 your value more than whether you're within danger
- 10 distance of a turbine or not?
- 11 A. That's our finding, yes.
- Q. Okay, that's very interesting. Did you --
- is there anything in here about rental property,
- 14 rental properties?
- 15 A. These are all --
- Q. Single family homes?
- 17 A. Single family homes. And we don't know if
- 18 they're rented or we don't know who lives in them.
- 19 We just know they sold at a specific price. So
- 20 we're looking at home sale prices versus their
- 21 characteristics.
- 22 Q. Okay.
- A. So who lives in them, that's beyond that
- 24 study, yes.

- 1 lsfla1000 --
- 2 Q. Right.
 - A. -- the coefficient for one mile or less is
- 4 .75.

3

- 5 Q. Correct.
- 6 A. The one mile is .723. They're almost
- 7 identical.
- 8 Q. Right. But then for like the -- if you go
- 9 up, you know, to the fdp 3 tdis 4_12, it's negative
- 10 .015 for the coefficient. And then if you go to the
- 11 SEM one, it's .008.
- A. Right. So you may be thinking, well, they
- 13 changed the sine, it's somewhat different, but both
- 14 of those are zero, neither one of them are
- 15 significant from zero. So they're right around
- 16 zero, not different from zero, and they may change
- 17 sine, but they have no economic relevance.
- 18 Q. Okay. Thank you.
- 19 A. You're welcome.
- 20 CHAIRMAN CORNALE: Thank you, Mr. Thayer.
- 21 I believe this is a good time to take a ten minute
- break. I've got 7:35. If everybody can be back at
- 7:45, we'll get going again. I believe Mr.
- Luetkehans has an expert witness that he would like

Page 1153

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Page 1155

- 1 Q. Okay. And the -- let's see. So then just
- 2 mostly -- not a very technical question. On the
- 3 appendix with the full results, it has one mile OLS,
- 4 half mile OLS, one mile SEM, and half mile SEM.
 - A. Right.

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- 6 Q. What are those columns representing?
- 7 What's the difference between OLS and SEM?
 - A. OLS is ordinary least squares. That's the
- 9 basic type of regression model you use. SEM is a
- 10 spatial model, so it takes into consideration
- spatial aspect, your price relative to your
- 12 neighbor's price. So there's an interaction between
- 13 the -- an individual home sale price and what its
- 14 neighbor prices would be, so it takes into
- 15 consideration that. So it's a spatially-weighted
- 16 model.
- Q. Okay. Because when I kept looking at the numbers, those numbers at the top that had to do
- with the distances to windmills seem very different
- 20 in the columns versus the numbers below them. Like
- 21 if you compare, say, the lsfla1000, IA, car number,
- 22 it's -- the OLS numbers and the SEM numbers are at
- least 10 sine, if you know what I'm saying.
 - A. Well, if you look at your example,

- to present by the name of Tom Hewson. So 7:45 we'llresume.
 - (Recess at 7:35 p.m. to 7:45 p.m.)
- 4 CHAIRMAN CORNALE: We'll go ahead and get
- 5 going. All right, at this time we're kind of
- 6 changing kind of the order -- or not the order but
- 7 the phase of the process here. Basically we've
- 8 questioned the applicant, both the public and we
- **9** have and any other interested parties. There's one
- or two witnesses out there that will be coming back.
- 11 I believe one for sure is Mr. Hankard, if there's
- some questions for him. I believe Mr. MaRous will
- also be back at a later time for some additional
- 14 questions that I know we have of him. I think we're
- done with Hankard, but I know there was some
- interested people in the audience for Hankard.
- MR. BLAZER: Actually I had spoken to Mr.
- 18 Griffin when we found out that one of Mr.
- 19 Luetkehans's witnesses won't be available next week.
- 20 As I understand, there are some questions for Mr.
- 21 Parzyck. So I think we're looking at this witness,
- 22 Mr. James, who was scheduled for next Wednesday
- won't be here. We're going to bring Hankard and
 - 4 Parzyck at least back next Wednesday.

Page 1156

CHAIRMAN CORNALE: Okay, all right, very

- 2 good. All right. So with that, then I guess the
- 3 phase that we're starting is any other interested
- 4 party -- or counsel will have expert witnesses
- 5 testify on their behalf, and I believe he may
- 6 actually ask some of his clients to come and
- testify, other additional -- I know I have a list
- 8 here of five or six expert witnesses that Mr.
- **9** Luetkehans intends to bring in.

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So just like the applicant, though, they will present information. We will have the opportunity to question them, everybody else will

- 13 have the opportunity to question, the audience will
- 14 have the opportunity to question, and the applicant
- will again -- will have the opportunity to question the expert witnesses that Mr. Luetkehans brings in.
- So with that, Mr. Luetkehans.
- **MR. LUETKEHANS:** Yes, thank you.
- 19 QUESTIONS BY
- MR. LUETKEHANS:
- Q. Mr. Hewson, could you please state your name and spell your last name for the record?
- A. My name is Tom Hewson.
- 24 CHAIRMAN CORNALE: Mr. Luetkehans, let me

- report by Stantec dated October 8th, 2014,
- 2 Decommissioning Plan, Pleasant Ridge Energy Project,
- 3 Livingston, Illinois, to review it and evaluate it.
- 4 Q. Have you prepared a report with those --
- 5 with that evaluation?
- 6 A. Yes, I have. I've done a report. It's
- 7 called EVA Decommissioning Estimate for Pleasant
- 8 Ridge Wind Farm.
 - Q. For the record, that's UCLC Exhibit 14.
- 10 Have you also -- you handed out a resume. It's UCLC
- 11 Exhibit 15. Is that a true and accurate copy of
- 12 your current resume?
- 13 A. It is.

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- Q. Okay.
- 15 A. And just for the record, just to explain,
- obviously I've provided testimony in a number of
- 17 different venues before. I've testified in front of
- 18 19 public utility commissions, four courts, two
- 19 state courts, eight state legislative committees,
- 20 seven state environmental agencies, and one
- 21 congressional committee. I've done a lot of
- 22 testimony in the wind issue on a range of different
- 23 topics, including decommissioning.
 - And we've done -- EVA does decommissioning

Page 1157

Page 1159

- 1 stop you right there. Let me get you sworn in
- 2 first, I'm sorry. Please raise your right hand.
- 3 (Mr. Hewson was duly sworn.)
- 4 CHAIRMAN CORNALE: Please state your name
- 5 for the court reporter.
- 6 **MR. HEWSON:** My name is Tom Hewson,
- 7 H-E-W-S-O-N.
- **8 BY MR. LUETKEHANS:**
- 9 Q. Mr. Hewson, how are you presently employed?
- 11 A. I am the principal at Energy Ventures 12 Analysis, Incorporated.
- Q. Can you give us a very quick summary of
- 14 your educational and employment background?
- 15 A. I am a -- have a degree in civil
- 16 engineering from Princeton University in 1976. I --
- 17 for five years, I was a project manager at Energy
- 18 and Environmental Analysis. In 1981, I started --
- 19 helped start the firm Energy Ventures Analysis where
- 20 I am currently employed. And I handle right now the
- 21 electricity, renewable and environmental practices.
- Q. And what have you been asked to do in this matter?
- A. In this matter, I was asked to review a

- 1 estimates also primarily for fossil-fired power
- 2 plants and currently involved in ones out west, and
- 3 our work is not only for the major electrical
- 4 utilities in the United States but also for fuel
- 5 suppliers, fuel transporters, major electric groups,
- 6 public utility commissions, municipalities and
- 7 citizens groups, financial lenders, landowners.
- 8 And in particular for decommissioning 9 costs, we've done decommissioning costs for
- 10 financial lenders, citizens groups, municipalities,
- 11 landowners of wind turbines and electric utilities.
- Q. And so I assume from what you said you've testified at hearings like this on decommissioning
- 14 costs?
- 15 A. I have.
- Q. Approximately how many times?
- A. Several. I've been at 11 local zoning
- 18 hearings, so I would say of those, that probably --
- I would imagine roughly about half of those issues
 were dealing with decommissioning costs.
- Q. Okay. Did you do your own independent analysis of the decommissioning costs for this
- 23 project?
 - A. We did.

Page 1160

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to go off-line.

- Q. And how did you do that and what did the analysis show?
- 3 A. Well, we -- what we have done is we have
- come up with an estimate. We do -- we did not have
- 5 all the specifications for this project, and so we
- 6 did use a lot of material that was in the Stantec
- 7 report. We used RS Means, which is a common
- 8 estimation tool, in order to estimate the
- 9 productivity of different groups in being able to do
- 10 certain tasks. We -- also because of the importance
- in decommissioning of the value of scrap values,
- what we did is -- and we realized that what we have
- 13 learned is that where you are makes a big difference
- in terms of what the scrap value is, because they
- buy it and then they have to process it to sell to
- someone else, and so the cost can change.
- So what we did in this particular case was we went out and we surveyed four local scrap yards
- in the region in order to figure out what is the
- 20 current market value price for recycling materials.
- 21 We talked to two -- and we surveyed G&D Salvage,
- 22 Cardinal Recycling, Buckman Iron and Metal, Alter
- 23 Metal Recycling; two landfills, Livingston County
- and Allied Waste Services; and three concrete
 - Page 1161
- which all the turbines come down from the exact same
- 1 companies, McLean County Asphalt, Narvick Brothers
- 2 Ready Mix and Peoria Brick and Tile. We also
- 3 contacted two transformer companies to see if they
- 4 would be willing to buy transformers of this type.
- 5 That's T&R Electric Supply and ELSCO.
- 6 Q. And after all of your analysis -- or after
- 7 all your research, what did the analysis show?
- A. We came up with a very different -- we
- 9 came up with a minimum in terms of a decommissioning
- 10 cost of over \$20 million to take this down and a
- 11 recycling value of around, looks like we got -- I
- don't know if 6 point -- it was -- we came up with,
- we identified \$20 million for the decommissioning
- cost and we have a recycling value of roughly \$6.55
- 15 million if all the turbines were taken down all at
- 16 the same time.
- Q. And if they weren't taken down at the same
- 18 time, would the cost increase or decrease?
 - A. It would be higher.
- Q. Okay. And is that in today's dollars?
- 21 A. That's in today's dollars.
- 22 Q. Okay.

19

- A. You can imagine -- one of the estimates
- here is that you have 136 of these turbines that are

Page 1163

being proposed. What's the chance that all 136 are

Probabilities will say that there will be some that

will be retired earlier than others, and so you will

start questioning -- the question the board needs to

decommissioning turbines? Is it after they stop

operating on an individual basis or, as the Stantec

which is after the last one stopped operating. So

it could be -- you know, we could be talking about a

large range of time in which the project could begin

Q. So what you're concerned about is that

there may be a number of turbines that are not

A. Right, and so that has to be part of the

scope of work is at what point in time should a

Should it be at the time in which -- within a

turbine that has stopped operating be taken down?

certain period of time after it stopped operating

and it's been abandoned or should it be at a point

in time in which -- at the end of all the project in

operating that are just sitting out there and

rusting, for lack of a better word?

study suggests, it's at the end of the project,

going to die in the same day? Little to none.

address is when is it that you should be

- 2 point? Or from a community standpoint, you know,
- 3 that's a matter of, you know, local land values and
- 4 the characteristics of what sort of you would like
- 5 in the county.
- 6 **CHAIRMAN CORNALE:** Mr. Hewson, will you do 7 me a favor and speak a little closer.
- me a ravor and speak a nucle croser
- 8 A. I'm sorry. I'm sure that they're having a 9 hard time hearing me out there.
 - **AUDIENCE VOICE:** Yes.
- 11 A. I'm sorry, I'll try to do better.
- 12 BY MR. LUETKEHANS:
- Q. And how did your numbers, your overall
- numbers compare to Stantec's analysis?
- A. Our overall value was that it was a much higher net cost associated than in Stantec.
- Q. What was Stantec's going to cost, do you remember?
 - A. Stantec's net cost was \$5 million.
- Q. Compared to the 14 million you found?
- 21 A. That's correct. And our 14 million didn't
- 22 include certain things such as road repair and some
- 23 of the crane rental that was in the Stantec numbers.
 - Q. Okay. And is finding Stantec's cost

Page 1164

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- estimate to be so low compared to yours a surprise? 1
- A. In the past it has not been unusual that 2
- 3 there's been a difference between our cost estimates
- and the decommissioning costs that we've been asked
- to review. Maybe we just get to ask to review some
- very lousy decommissioning costs. But generally 6
- there's a difference. And one of the differences is
- the cost of sizing materials to be able to give it
- 9 to the scrap yard because they don't usually like
- things in 80 meter pieces. They like things in 10
- 11 little pieces.
- 12 And then also often in terms of the scrap
- values is that -- and that's what's most significant 13
- in this case is that Stantec estimated a value of 14
- \$14.8 million for the scrap and we had \$6.5 million 15
- for the scrap. 16
- 17 Q. And do you believe that the \$14 million is
- a reasonable number? 18
- 19 A. No.

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- 20 O. Why not?
- 21 A. Well, the difference is that when you look
- at scrap, it's what people are willing to pay you 22
- for the scrap. So we contacted the four scrap yards 23
- 24 in the area and we -- as I said, we had four, and we

- Q. Okay. So we know you checked the salvage
- numbers with the local construction -- with the
- local yards, scrap yards. Did you do anything to
- check your construction costs?
- A. Yes. I mean this is a very -- you are 5
- very fortunate in that one of the things that we 6
- 7 were able to do in this, which is unique in terms of
- our experience, we used a factored estimate using RS
- 9 Means and looking at wage rates in order to come up
- with an estimate. There was also a construction 10
- 11 firm here, local construction firm that came up with
- an estimate in terms of if they were to do the 12
- decommissioning how much they would charge, and they 13
- had a number much higher than we did. 14
- 15 Q. Before we get into that, let me cut you off, I'm sorry. 16
- 17 A. Okay.
- Q. You've talked about RS Means a couple of 18
- 19

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- 20 A. Yes.
- 21 Q. Could you explain to the board what RS
- Means is and is that something that's normally used 22
- 23 in your industry?
 - A. RS Means is very commonly used to come up

Page 1165

Page 1167

- picked the best one. And the best one in the area
- 2 right now is G&D Salvage, and they were willing to
- pay \$200 a ton for scrap as opposed to the 3
- assumption in the Stantec was \$370 a ton based upon 4
- the price that was on the Internet. So that was by 5
- far one of the most significant differences. 6
 - There's also a difference in copper
- prices. We also asked them at the same time what 8
- they were paying for copper. We found the going
- rate here is about \$1,000 a ton versus \$5200 a ton 10
- that was used in the Stantec estimate. 11
- Q. What would happen, in your opinion, if all 12 of the steel that would come forward at 13
- decommissioning and all the copper came out at one 14
- time? What would that do to the price? 15
- A. Oh, it would have a definite impact. If 16
- you can imagine, we're talking about 192 tons 17
- associated with each turbine. So if you imagine if 18
- you have 136 of those and you multiply it by 192 19
- tons, that's a lot of tons and in fact would 20
- probably be far more than what the local scrap yards 21
- could handle. So I would assume that there would be 22
- 23 an effect on the market price, local market prices
 - if all the turbines were to hit at the same time.

- with factored estimates in our industry. 1
- 2 Q. And is that -- what is that?
- A. It's a publication done yearly which looks 3
- at the average productivity of how long does it take 4
- to, you know, take out a cubic yard of concrete,
- looks at average wage rates and comes up with a 6
- 7 value in terms of how much, for example, a
- foundation, how many hours does it take to remove so
- 9 much of a foundation.
 - Q. Now, you were talking about you had
- checked with the local company. I'm sorry I 11
- interrupted. 12
- A. Yes. There was a company called Vissering 13
- Construction that developed an estimate. While we 14
- 15 were at 20 million, and ours was a little low
- because we didn't include things such as the road 16
- repair, primary transformer, which we had no specs 17
- in to allow us to tie in, and we were -- we were 18
- unable to get a local crane rental rate where 19
- Vissering could, and they came up with an estimate 20
- 21 of around between 36 to \$44 million is what they estimated to be the cost of the demolition.
- 23 Q. And when you say 36 to 44, is that a
 - one-time demolition or is that over time? Or how

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Page 1168

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- does that work? 1
- A. If they were to do it on a one-by-one 2
- basis, they would get a number \$44 million. If they 3
- did it all at once, it would be closer to \$36
- million. 5
- Q. And why is that difference? 6
- A. Because there's efficiencies associated 7
- with when you bring in these cranes from a distance
- 9 and set them up, mobilize them and then demobilize
- them, go to the next spot. There is some 10
- 11 efficiencies to gain by going from one place to the
- next, to the next, to the next in terms of the 12
- efficiencies. 13
- Q. As well as mobilization I assume? 14
- 15 A. Mobilization is big. In their case, the
- difference in mobilization costs alone was \$4 16
- million. 17
- Q. Okay. Now that was -- 36 to 44 was their 18
- 19 construction decommissioning costs, correct?
- 20 A. That's correct.
- Q. Okay. Did they have a salvage value or is 21
- that -- what did you do salvage value? 22
- 23 A. They had a salvage value of \$8.5 million.
- 24 Or 8.6 million, excuse me.

- residents from the risk of decommissioning and these high costs?
- 2 3 A. Let me go back and first make a -- some
- observations. First of all, in decommissioning, why
- do -- why should you care about decommissioning if 5
- it's a project that might be 20 years from now 6
- 7 before it gets decommissioned? Why should this
- board be concerned now about that?

One is that you've got to understand why is it that we have a decommissioning expense whereas before we didn't? And the reason was back when we started the wind rush in the '70s and '80s, mostly in California, there was no requirement for a decommissioning after the project went down. And so if you sometimes go out in some places in California where the older turbines were, you'll see a bunch of rusting turbines in place.

And so California, in terms of the communities there, in seeing that, reacted by saying we want to make sure that there is a financial assurance available that this project could be taken down after -- at the end of their various useful lives.

Keep in mind that in most of these cases

Page 1169

Page 1171

- Q. Okay, and yours was 6 and a half, so it's 1
- 2 not that far off from yours.
- A. Correct. 3
- Q. Both of you are well over[sic] the 14 and 4
- change that Stantec came up with.
- A. Correct. 6
- 7 Q. Okay. Why did you reach out to Vissering
- or why did -- let me ask the question. Did you feel
- it was important to get Vissering's numbers? 9
- A. I found it very enlightening to get a 10
- construction company to bid. 11
- Q. And why is that? 12
- A. Because those are the types of companies 13
- that you would be approaching if you were to
- decommission the facility. 15
- Q. Okay. And engine -- the RS Means and 16
- engineers, when they estimate, that's what that is 17
- is an estimate, correct? 18
- A. Yes. 19
- Q. And we never know what the final numbers 20
- are until we take those out for bid, correct? 21
- 22 A. Right.
- 23 Q. Okay. What would you suggest be
- implemented to protect Livingston County and its

- we're dealing with limited liability corporations.
- So that in a limited liability corporation, you only 2 have up to the assets that it holds. So it is 3
- important in terms of -- to have a way to be able to 4
- fund a -- to take these turbines out and return the 5
- land to its original use is what most communities 6
- 7

8 Now, because there are 136 of them and they're going to be done -- and they're going to go out at various different times, it may not be 10 something that you will -- you might be seeing 11 sooner than later. I was noticing there were some 12 turbines as I was coming in -- I mean most of these 13 turbines are less than ten years in this case, so 14 they haven't gotten very far. But if you go through 15 and you look, there's a long list of reasons why 16

some turbines don't go the full lifetime. Some 17 other turbines will likely go beyond their lifetime. 18 And so the timing of it is that this is 19

the time -- in giving special use permits is the one 20 time that the county has to be able to dictate what 21 the conditions are for giving your permit. So I 22

23 implore you to consider carefully in terms of what

type of things are important to you in order to

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return it to natural condition. 1

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Something like access roads, I mean you're 2 3 building in this case, just in this one situation, 50.8 miles of access roads that are 16 feet wide. And so what's going to happen to the roads after the end of the project? Is it something that should be 6 taken out? You have crane pads which are being used for the purposes of stabilizing these large cranes that need to be brought in in order to take the 9 turbines up and down. Should they -- should they be 10 11 taken out?

And when you start adding all these things together in terms of a scope of work, you can get into some fairly large amounts of money. And so it's important in terms of a decommissioning that someone -- that you have the ability to do that.

Now, from a county's perspective, and I've worked for municipalities, is that generally you're not the type of person that has the expertise after they've said you want to go in and you're going to manage the project. The scrap values are going to go up, they're going to go down. Labor costs are going to go up, rental rates. Who knows what will happen 5, 10, 15 years from now?

Page 1174

So our suggestion to you is that you talk 1 about that you may want to consider a performance 3 bond with a very highly rated financial -- highly financially rated firm that you could pull in and do the work when it -- when it gets triggered, whenever 5 that may be. 6

7 Q. So that would take the risk away from the county and away from the landowners? 8

A. Correct, it would take it away from the county and the landowners.

Q. And I mean this developer in this case appears to be, at least at this time, a single entity developer. It's an LLC for just this project. Is that your understanding?

A. The project that we're talking about is an LLC, so it is -- and it is being developed by a very large company, but the company itself in terms of owning the assets will be under a limited liability corporation.

20 Q. Okay. And are you familiar with the means 21 proposed by Invenergy to protect Livingston County from such risk? 22

23 A. Repeat that?

Q. Are you familiar with the means that have

Page 1173

been proposed by Invenergy or the developer to protect Livingston County in this case?

So how do you where you sit guarantee that 1 this project will be done and done correctly? 2 You're not in this to try to make money. I remember 3 when I started decommissioning, everyone concluded scrap value was worth more than the demolition cost 5 and so you could make money off of this. No one's 6 saying that anymore or most people I've reviewed don't say that anymore. And so as a result, someone has to have the money and the finances to be able to do that. 10

We believe that the best way to do it is to take the risk of -- construction risk and scrap risk, timing risk, and assign it to someone who has the financial resources to be able to handle it and to be able to quantify that risk better than what, you know, I could do or a developer could do, which is a performance bond, and ask for a performance bond saying that for this scope of work we want you to have the ability that these things will happen, and ask for a bond in lieu of a financial number which limits the risk to that one number. And if scrap values were to go into the crapper tomorrow, who would be left holding the difference in the bag? Is that something that is important?

3 A. We saw that in the Stantec report there 4 was a -- a proposal in order to do that, in terms of coming up with a financial assurance, which was 5 different than the proposal that was in the August 6 2014 application that you received. And so going with the later October Stantec report, it had a different level of assurances in which they were suggesting 25 percent of the estimated cost at the date of the improvement location permit; 30 days, 50 percent; 30 days, you have the sixth anniversary, 12 13 100 percent; and then update every three years after that to maintain a decommissioning cost. 14

It also was mentioned in your application that in the agreements with the landowners, that they said that if they didn't have the financial capability, they would start a fund in year 15 to start to develop a fund to be able to handle decommissioning costs as part of their agreements with the landowners.

Q. And that number that they're proposing to be funded at a hundred percent in I think it was 15 years you said is \$5 million?

Page 1176

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- A. Correct. 1
- Q. Is that sufficient protection in your 2
- 3
- A. If I was in your shoes, no. 4
- O. Not many people have been involved in
- actually decommissioning wind projects to date, 6
- correct? 7
- A. Correct. 8
- Q. Okay. Have you ever been involved in 9
- decommissioning other types of energy projects? 10
- A. Yes. 11
- Q. Could you please list a couple examples of 12
- projects you've been involved in? 13
- A. We've been working for financial 14
- institutions about decommissioning costs of 15
- coal-fired power plants. We are currently involved 16
- in develop -- looking at a site to decommission a 17 plant in Utah. 18
- 19 MR. LUETKEHANS: Okay. I have nothing
- 20 further of Mr. Hewson at this time. Thank you.
- CHAIRMAN CORNALE: All right. As a board, 21 do we have any questions at this point? Do you want 22
- to --23

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24 MS. HUISMAN: Sure.

history shown? 1

- A. Okay. First of all, I mean the reason why 2
- 3 there isn't many people who can say they have
- decommissioned a wind project is because there
- haven't been many, and so there hasn't been a long 5
- history because keep in mind that wind projects 6
- 7 started to really take off with the renewable
- portfolio standards that we have in the states. And
- 9 if you think about in Illinois in terms of how long we've had wind, it hasn't been that long. 10

In terms of -- your question was, in terms of the scope of work, is there a reason to believe that they would spend money in order to keep the turbine operating? I mean that would be a good question to ask them as opposed to me, but I would observe the following, is that the technology for wind turbines has continued to escalate. And so the wind turbines that we're talking about today versus the wind turbines that are common five, ten years ago are very, very different.

And so if you look at where the trend has been where we're getting larger and larger turbines, it may be that ten years from now a turbine that you might want to consider may be a different design, a

Page 1179

Page 1177

QUESTIONS BY

MS. HUISMAN:

- Q. Mr. Hewson, have you personally been
- involved in overseeing any decommissioning of wind 4
- farms? 5
- A. No. 6
- Q. Would you then have any expertise or 7
- knowledge or ideas on what the typical
- decommissioning plan consists of? Because you 9
- mentioned that our board should consider whether or 10
- not those are going to come down one at a time or 11
- it's going to be taken all out at once, you know, 12
- take all the turbines down at one time, and that the 13
- costs would vary significantly based on which method 14
- is used. 15

16

A. Correct.

- Q. So I would think that the -- all the 17
- turbines are going to be repaired and kept running 18
- for the 20 years, and at the end -- at the end of 20 19
- or 30 years or whenever the company decides it wants 20
- to -- it's not economically viable to keep the farm 21
- running, they would take them all down at once. Is 22
- that a good assumption, bad assumption, what you've 23
- seen typically? What can we -- you know, what's the

- different weight, it may require different types of 1 2
- foundations, a different type of tower. And so
- there may be reasons to believe that instead of 3
- using the same tower you may elect to build another 4
- tower with foundations and size designed to handle 5
- the new turbine. You know, it's speculation on my 6
- 7 part, but -- because as technology changes, the
- design will change, and therefore it isn't simply
- just replacing some things all the time.
 - Q. Okay, but -- so is it a safe assumption, then, that you don't know typically if a wind farm
- would be removed piecemeal or all at once? 12

A. Well, when we start removing them, I will have information that I can share with you.

- Q. So that the farms out in California, 15
- you're saying anything that has been constructed, 16
- none of them have ever been deconstructed and 17
- there's no data or pattern for us to think about and 18
- consider when we try to determine what's a 19
- reasonable amount to require the wind farm company 20
- 21 to set aside or bond or whatever to decommission 22 this farm.
 - A. The ones that were out in California that were abandoned were abandoned without any

Page 1180

requirement to decommission them. So the ones that still remain are the ones that didn't have the decommissioning requirements.

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Those that have the decommissioning requirements, being a more recent requirement, I am unaware of any. Maybe the applicant might have information concerning some that may have stopped operating and therefore did they get decommissioned or did they keep it in place until some more of them went off-line.

But my thought for you is that you need to consider from your standpoint and aesthetics and all that you're trying to achieve here in Livingston County, is it a type of thing in which you want to wait until the end or is it something that you want to require as you go along?

Q. Okay. On page 6 of your -- it's Appendix
A, am I understanding your exhibits correctly that
your estimate of metal scrapping value was the only
ones that considered the cost to disassemble or
torch the metal components that would come out of
the wind turbines so that they could possibly

the wind turbines so that they could possibly achieve a higher scrap salvage value?

A. No. I believe that Vissering, first of

missed it. Is it the current trend for access

2 roads, you know, not public roads but access roads,

3 and crane pads and the base of the tower, that once

4 you get the turbine down, if you take it down, your

5 view is essentially restored. Then -- and is the

6 trend, then, for the things that aren't going to

7 impact the scenic value of the area becoming a

8 contract term between the wind farm companies and

9 the landowners, with the participating landowners?

10 Is that the new trend?

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A. In that there's so many happening, it's hard for me to, you know --

Q. You mentioned something briefly about --

A. But in the ones that I'm aware of, a lot of times they want to take out the access roads in order to return it to agricultural use. So you could imagine planting crops on top of access roads wouldn't get you very much. And so if you were to return it to its original use, you would need to be able to take it out.

There is some question in terms of when you look at something like a foundation, when you go down to, quote, plowable depth, and if you go -- you have the same amount of water that you'll have for

Page 1181

Page 1183

- all, did take those into account as well. And I
- 2 also believe that Stantec has a cost in order to
- 3 size it as well, which is probably the reason why
- 4 our numbers aren't as different as would have been
- 5 if we had maybe people who didn't incorporate the6 sizing cost.
- 7 Q. And were those all different types of
 - vendors that you had to contact then? I'm assuming
- 9 does Vissering do that kind of torching to cut the
- 10 metal into smaller pieces or was that -- was that
- researched with a different kind of company?
 - A. In the Vissering case, they estimated the amount of time it would take in order to take the
- towers down and to be able to size it, and theyended up with a cost much higher than the cost that
- we had. Their estimate was for \$22.8 million in
- order to take -- for that whole series. The numbers
- by both Stantec and EVA were much less than that.But I believe Stantec in their assumption did have
- But I believe Stantec in their assumption did have some labor associated with resizing of the -- of the
- 20 some labor associated with resizing of the -- of the 21 towers.
- Q. Okay, one last question. I was reading through your document when you were talking about
 - 4 this, so you might have said this and I might have

- the crops, as opposed to if you took it all out and
- add water of an inch or two, that I believe you end
 up with something a little bit higher crop yield if
- 4 you take the whole thing out as opposed to just at
- 5 the four foot level, but that's an estimate.
 - O. I understand that.
 - A. That's speculation.
- Q. Did you say anything about a trend of
- 9 those, the decommissioning costs for those types10 of --

A. It has been a general trend in terms of the decommissioning estimates that I have reviewed that they have generally wanted to keep them in unless the landowner wants them out. And in this case, they said that they would ask the landowners whether they want to keep it in, but they included an estimate of taking it out.

And when they included the estimate of taking it out, they ended up with a very small number of only 850,000 versus, to give you an idea, Stantec was 5.4 million to \$7.5 million to take out the 50.8 miles of road; ours was right in between at 6.27 million. So that if you had to take out the roads, it is a very big dollar item.

Page 1184

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- 1 The reason why they're different is
- 2 because Stantec believed that they could resell 50
- 3 percent of the aggregate material and so they would
- only dispose of only a small portion of it. In
- 5 calling the landfills, we did not find people who
- 6 were willing to take it free of charge.
- 7 MS. HUISMAN: Okay, thank you.
- 8 **CHAIRMAN CORNALE:** Any other questions
- 9 from the board at this time? Okay, we'll reserve
- our right to ask questions. Units of local
- 11 government, any units of local government out there
- with questions?
- All right. Applicant, do you have any
- 14 questions for Mr. Hewson?
- MR. BLAZER: Just a few, Mr. Chairman.
- 16 **CHAIRMAN CORNALE:** All right.
- 17 QUESTIONS BY
- 18 MR. BLAZER:
- Q. Mr. Hewson, do you have Stantec's report
- 20 up there?
- 21 A. I do.
- Q. Oh, okay. And is yours marked Pleasant
- 23 Ridge Exhibit 28?
- 24 A. No.

- 1 particular report, Mr. Levine was the one who
- 2 contacted all the local landfills and scrap yards.
 - Q. So you didn't do any of that work?
- 4 A. I supervised. He works for me and I
- 5 supervised the work.
- 6 Q. Okay. Going to your report, page 2, the
- 7 summary, the first sentence, your report says that
- 8 it's an independent analysis.
 - A. Correct.
- Q. Do you see that? What do you mean by
- independent?
- 12 A. Well, we were asked to come up with what
- an estimate would be, and so it was an estimate from
- 14 starting from scratch.
- Q. By Mr. Luetkehans on behalf of his
- 16 clients, correct?
- 17 A. Independent of who hired me, I would give
- 18 them the same number.
- Q. And I believe you indicated that you've
- 20 testified on behalf of opponents in other wind
- 21 proceedings; is that correct?
 - A. That is correct.
- Q. And just going back for a moment to Mr.
- 24 Levine, I'm going to hand you what I've marked as

Page 1185

Page 1187

- 1 Q. Let me give you this one just so we're
- 2 working off the same one. We're going to be using
- 3 this one quite a bit, so --
- 4 A. Okay.
- 5 Q. -- keep that one there. Mr. Hewson, who
- 6 hired you?
- 7 A. I was hired by the law firm, Mr.
- 8 Luetkehans's law firm.
- 9 Q. On behalf of his clients, the UCLC?
- 10 A. I mean at the time I was contacted I was
- 11 uncertain who his clients were.
- Q. All right. Now, your report, which is
- marked UCLC Exhibit 14 --
- 14 A. Yes.
- Q. -- identifies you and an individual named
- 16 Jacob R. Levine as the preparers of the report; is
- 17 that correct?
- 18 A. That's correct.
- Q. And in response to a number of Mr.
- 20 Luetkehans's questions when he asked you did you do
- 21 this, did you do that, you responded repeatedly we
- 22 did this, we went out and surveyed. Is the "we" you
- and Mr. Levine?
- A. In terms of as it deals with this

- 1 Pleasant Ridge Exhibit 260.
- 2 MR. BLAZER: And for the benefit of the
- 3 ZBA, I realize there is a significant gap between my
- 4 last exhibit and this one in terms of the numbering,
- 5 and that's candidly because we had no idea the order
- 6 of Mr. Luetkehans's witnesses. So you can expect
- 7 that there will be some fill-in of numbers with some
- of his other witnesses.
- 9 Q. In any event, Mr. Hewson, do you recognize
- 10 this as a printout of Mr. Levine's background and
- 11 experience from your company's web page?
- 12 A. Indeed.

- Q. All right. And does that accurately
- 14 reflect his background and experience?
- 15 A. Yes, he is a -- is an associate.
- Q. And so he focuses mainly in the power and
- 17 renewable energy sectors by providing market
- 18 research and statistical modelling; is that correct?
- 19 A. Yes.
- Q. And his projects include fuel procurement
- 21 analysis for biomass facilities, distributed
- 22 generation capacity installation research, retail
- 23 electricity sales modelling, and regulatory
- 24 critiques; is that correct?

Page 1188

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14

- 1 A. That's how he started, yes.
- 2 Q. All right.
- 3 A. It's hard to keep these things up-to-date.
- 4 Q. Well, in terms of up-to-date, he's not a
- 5 registered professional engineer, correct?
- 6 A. No, he's not.
- 7 Q. All right. And what is his -- his
- 8 experience in designing or supervising construction
- 9 projects?
- A. He's just a -- a young go-getter with a
- 11 college degree.
- Q. And I appreciate that, sir, but I would
- 13 like an answer to my question. What is his
- 14 experience in designing or supervising construction
- 15 projects?
- 16 A. He has not done any design or
- 17 construction.
- 18 Q. All right.
- 19 A. He's not an engineer.
- Q. All right. What's his experience in
- 21 either designing or supervising decommissioning
- 22 projects?
- A. He has not designed a decommissioning.
- Q. Okay. Let's go back to your testimony for

- 1 McLean County.
- 2 And if you could -- you can start, for
 - example, on -- go to the page marked number 4, and
- 4 you'll see starting at line 17 and you'll see there
- 5 you say, "I'd like to talk first about the noise."
- 6 Do you see that?
- 7 A. This is on page 4, did you say?
 - Q. Yes. The way it printed out, the page
- 9 numbers aren't at the top unfortunately.
- 10 A. I guess I was looking at the top of page 11 3.
- Q. So if you go to line 17, you'll see "I'd
- 13 like to talk about noise."
 - A. Uh-huh.
- Q. All right. And as you go through there,
- actually you talked about noise for six or seven
- pages, do you see that? All the way to page 10.
- 18 I'll represent to you that you did. This might make
- 19 it a little bit faster since we want to make sure we
- 20 get you back to Virginia as quickly as possible.
- You remember you also talked about shadow flicker in that proceeding? That's on page 14
- 23 starting at line 9.
- 24 A. Yes.

Page 1189

Page 1191

- 1 wind farm opponents for a few minutes. And I know a
- 2 number of these are identified in your resume, which
- 3 is UCLC 15. I would like to ask you about a couple
- 4 of examples of your prior testimony.
- 5 A. I don't have that exhibit in front of me,
- 6 but I'm sure I'll remember it.
- 7 Q. I have a feeling you're familiar with your
- 8 resume, but do you recall testifying on behalf of
- 9 opponents to the White Oak wind project in McLean
- 10 County in 2007?
- 11 A. I remember providing testimony, yes.
- Q. All right. And Invenergy was the
- developer of that project, do you recall that?
- 14 A. I believe it was, yes.
- Q. And do you remember in that proceeding you
- talked about noise from wind turbines?
- 17 A. I -- I don't remember all the topics that
- 18 I talked to in that venue. I have talked about
- 19 noise before, yes.
- Q. Let me -- let me try it just so we can
- 21 refresh your recollection. All right, Mr. Hewson,
- 22 Pleasant Ridge 251 is the transcript of your
- 23 testimony -- I'll represent to you is the transcript
- of your testimony in the White Oak proceeding in

- 1 Q. Okay. And you talked about endangered
- 2 species. That's starting on page 13 at line 15.
- 3 A. Back a page?
- 4 Q. Yes.
- 5 A. Yes.
- 6 Q. Okay. And you also talked about impacts
- 7 on property values. That was -- it's actually pages
- 8 15 to 22. It starts on 15 at line 1 and goes on for
- 9 multiple pages.
 - A. Yes.
- 11 Q. Okay. You're not a doctor, right?
- 12 A. No.

- Q. You're not a --
- 14 A. An engineer.
- Q. You're not an appraiser?
- 16 A. I'm not an appraiser.
- Q. You've never performed a hedonic analysis
- 18 of the impact of a detrimental condition on property
- values, correct?
- 20 A. I've reviewed Ben Hoen's, but no.
- Q. You have never yourself performed such a
- 22 study?
- 23 A. No.
- Q. You're not an acoustician?

Page 1192

- 1 A. I'm not a what?
- **Q.** Acoustician or an acoustical engineer?
- 3 A. No.
- 4 Q. And you're not a biologist, correct?
- 5 A. No. I'm just an engineer.
- 6 Q. All right. And the McLean County board
- 7 approved the White Oak project, correct?
- 8 A. As I sit here, I am not sure whether they did or did not.
- 10 Q. Okay.

11

- **CHAIRMAN CORNALE:** For the record, while
- 12 he's handing those out, we will take these exhibits.
- We'll start at UCLC Exhibit 14. That's EVA's
- 14 decommissioning estimate for the Pleasant Ridge wind
- 15 farm. UCLC Exhibit 15 is the resume of Thomas
- 16 Hewson. Pleasant Ridge Exhibit 260 is a vitae of
- 17 Jacob Levine, associate at Energy Ventures Analysis.
- 18 Pleasant Ridge Exhibit 251 is an excerpt of Hewson
- 19 testimony at the McLean County wind farm hearing.
- 20 And Pleasant Ridge Exhibit 250 is the proceedings of
- 21 the County Board of McLean County, Illinois, for the
- 22 record.
- 23 BY MR. BLAZER:
- Q. I've handed you, Mr. Hewson, what I've

- 1 you a couple of questions about the fact that you
- 2 didn't find it surprising that you have seen
- 3 decommissioning estimates from applicants that are
- 4 lower or substantially lower than the ones you've
- 5 come up with. And I think you said it's not unusual
- 6 that there's a difference, and I wrote down that you
- 7 said something to the effect of lousy
- 8 decommissioning reports. Did I write that down
- 9 correctly?

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17

10 A. I don't think I said lousy, but I --

- Q. I must have imagined it. And do you
- 12 remember, and I think it's actually -- this one is
- specifically identified in your resume. In 2008,
- 14 you prepared a decommissioning cost evaluation on
- behalf of opponents to the Beech Ridge wind project
- in West Virginia. Do you remember that one?

A. I remember the project.

- 18 Q. All right. And Beech Ridge was another
- 19 Invenergy project, right?
- A. I must admit I don't remember who the developer was of that project. I'm sure they would
- 22 know which projects are theirs.
- Q. I will represent to you, Mr. Hewson,
- 24 Invenergy was and is both the developer and the

Page 1193

Page 1195

- 1 marked as Pleasant Ridge Exhibit 250, which is the
- 2 March 20, 2007, approval by the McLean County board
- 3 of White Oak wind farm. Have you ever seen that
- 4 document before?
- 5 A. No.
- 6 O. You are aware that the White Oak wind farm
- 7 was, in fact, built and has been operating since
- **8** 2007?

11

9 A. There's lots of projects that are

10 operating. I don't profess to remember them all.

- Q. All right. So you don't know anything
- 12 else about the White Oak project other than what you
- 13 testified about?
- 14 A. As part of my practice, I do keep track of
- 15 how much power is produced by every wind project
- 16 that reports.
- 17 Q. Okay, let's --
- 18 A. I'm not sure I have the data on it.
- Q. Let's talk about a proceeding where you
- 20 did talk about decommissioning costs instead of
- 21 things outside of what you say is your engineering
- 22 background.
- Now, I think I wrote this correctly, I was
- 24 writing very fast, but I think Mr. Luetkehans asked

- 1 operator of that project.
- 2 A. Okay. I have no evidence to suggest
- 3 you're wrong.
- 4 Q. All right. And you mentioned this in your
- 5 resume, that you prepared a decommissioning cost
- 6 evaluation. That's essentially what you have done
- 7 here as well, correct?
- 8 A. Correct.
- 9 Q. All right. And in that case, you prepared
- a report that, in essence, disagreed with the
- 11 decommissioning estimate that had been submitted by
- the consultant retained by Invenergy, correct?
 - A. Correct.
- 14 Q. All right. And the West Virginia Public
- 15 Service Commission, their system is different for
- approvals out there, the West Virginia Public
- 17 Service Commission approved that project, right?
 - A. They did.
- Q. All right. What I've handed you there,
- 20 Mr. Hewson, is -- it's marked as Pleasant Ridge
- **21** Exhibit 258. That is a final order dated February
- 13, 2009, from the West Virginia Public Service
- 23 Commission approving the Beech Ridge project. Do
 - you recognize that document at all? Have you ever

13

Page 1196

- seen it? 1
- A. And this is back in 2009? I probably did 2
- not see the final order. 3
- Q. Hopefully I have something that you might 4
- be more familiar with. I've handed you what has
- been marked as Pleasant Ridge Exhibit 259. Do you 6
- recognize -- and I'll represent to you that's
- actually an excerpt, the first -- the introductory
- pages of the executive summary from a more complete
- document. Do you recognize that document? 10
- 11 A. It looks familiar.
- 12 Q. All right. And that is, in fact, the
- decommissioning evaluation report that you submitted 13
- in the Beech Ridge proceeding, correct? 14
- 15 A. I believe it is.
- 16 Q. All right. I think you can see from your
- report on page 2, in that project Invenergy's 17
- consultant had proposed a total for decommissioning 18
- 19 starting in the first year at \$2,500 per turbine
- based on 124 turbines and escalating up over the 20
- years to \$25,000 per turbine. Do you see that? 21
- A. That's the last sentence, yes, on page --22
- 23 before the final --
- Q. And you disagreed with that and said that 24

- the West Virginia Public Service Commission's order,
- correct?
- 3 A. Correct.
- Q. Okay. 4
- A. Let me just --5
- Q. Pages 28 to 29. The discussion starts, 6
- "The commission acknowledges that the price of scrap
- metal fluctuates." Do you see that discussion, Mr.
- Hewson? 9

11

20

21

22

- A. Yes, I do. 10
 - Q. Okay. And I guess the point of the
- commission's decision is actually at the end of that 12
- paragraph. Let me know if I read this correctly. 13
 - "At regular intervals, both the HDR report and Beech
- Ridge's separate financial assurance amounts will be
- updated, and through the periodic updates, the 16
- 17 commission will be able to require whatever level of
- financial assurance is necessary to protect the 18
 - public interest." Did I read that correctly?
 - A. That is indeed verbatim for the last phrase.
 - Q. Okay. And following up from that, then,
- 23 having rejected your estimate, the West Virginia
- Public Service Commission accepted Invenergy's

Page 1197

Page 1199

- the decommissioning amount should actually be \$10.8
- 2 million or over \$87,000 per turbine, correct?
- A. Correct. 3
- Q. All right. And the West Virginia Public
- Service Commission didn't accept your estimate, did 5
- it? 6

7

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- MR. LUETKEHANS: Objection, relevance.
- MR. BLAZER: I'm sorry, this witness 8
- testified at length about his experience, the number 9
- of proceedings in which he's testified regarding 10
- decommissioning estimates. 11
- **CHAIRMAN CORNALE:** We will allow the 12 question. Will you please answer it?
- 13 A. Can you repeat the question?
- MR. LUETKEHANS: June, could you please 15
- repeat it again? 16
- (Requested portion of the deposition was 17
- read by the court reporter.) 18
- A. As I remember, and it's probably in the 19
- order, is that they elected not to go with our 20
- recommendation. 21
- BY MR. BLAZER: 22
- Q. All right. And for the record, in fact 23
- that discussion is at pages 28 to 29 of Exhibit 258,

- estimate, correct? That's at pages 36 to 37 if you
- 2 need to confirm it for yourself.
- A. It appears that they did. 3
- Q. Okay. You mentioned a couple times that 4
- you're just an engineer. You have a degree in civil
- engineering going back to 1976, correct? 6
- 7

8

- Q. And from your resume, it looks like you've
- spent all but five years of your career, from 1981
- forward, with Energy Ventures Analysis? 10
- A. Yes. I am one of the principals and 11 founders of Energy Ventures, so yes. 12
- Q. Okay. And is it okay if I call it EVA? I 13
- think you do as well. 14
- A. Yes, that's fine. 15
 - Q. It might shorten this by a few seconds.
- A. Okav. 17
- Q. EVA is a consulting firm, right? 18
- A. That's correct. 19
- Q. EVA is not an engineering firm, correct? 20
- A. We are an environmental and energy 21
- consulting firm who happens to have engineers on 22
- 23
- 24 Q. All right. Going back to your degree. I

Page 1200

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19

- 1 handed you what I marked as Pleasant Ridge Exhibit
- 2 252, and I'll represent to you this is a definition
- 3 that I found from the U.S. Department of Labor's
- 4 Bureau of Labor Statistics definition of civil
- 5 engineering. And it says, "Civil engineers design,
- 6 construct, supervise, operate and maintain large
- 7 construction projects and systems, including roads,
- 8 buildings, airports, tunnels, dams, bridges and
- 9 systems for water supply and sewage treatment."

Did I read that correctly?

- 11 A. I believe that's probably what people -12 civil engineers do.
- Q. Okay. Do you agree with that definition
- of the field of civil engineering?
- A. Well, in the context of -- are you asking in terms of my background?
- Q. No. I'm asking if you agree that that is
- an appropriate definition of the field of civil
- 19 engineering?
- A. I don't like to limit it to just that.
- Q. Well, it does include those things,
- 22 correct?
- A. There is a portion that includes that.
- Q. Okay. Could you describe for us what

- authored a decommissioning plan, correct?
- 2 A. We've done things such as what you've seen 3 here.
- 4 Q. That's not my question, sir. Your company
- 5 has never authored a decommissioning plan. For
- example, your company has never done what Stantecdid in this proceeding, correct?
 - **MR. LUETKEHANS:** Just for clarification, is that for wind turbines or anything whatsoever? I just want to make sure we're talking about the --
 - Q. Any industrial or commercial facility of
- any kind, anything falling within the field of civilengineering.
- 14 A. We have worked with engineering companies
- 15 in order to develop decommissioning plans in terms
- of a supervisory role. I do not have -- I'm not a
- 17 person who is a professional engineer that would
- 18 stamp a plan.
 - Q. All right. So you've never put together
- 20 specifications for a decommissioning or reclamation
- 21 project, correct?
- A. I have not, but some of my partners have.
- Q. Right now I'm asking about the people who
- are involved in this proceeding. That's you and Mr.

Page 1201

Page 1203

- 1 direct involvement you've had in any decommissioning
- 2 or reclamation projects?
- 3 A. Okay. As I testified earlier, in terms of
- 4 development of decommissioning estimates for wind
- 5 projects --
- 6 Q. No, sir. I'm sorry to interrupt. I asked
- 7 you what direct involvement have you ever had as an
- 8 engineer in any decommissioning or reclamation
- 9 projects?
 - A. You're asking if I've done specifications
- 11 for decommissioning reports or decommissioning
- 12 specs?

10

- Q. I'm asking you to tell us what involvement
- 14 you had as an engineer in any decommissioning or
- 15 reclamation projects.
- A. Okay. We were asked by financial companies in order to come up with estimates about
- 18 decommissioning costs for power plants.
- Q. Let me try to be more specific. Since
- 20 there haven't -- well, there have been some, but
- just to make it clear, EVA has never done a wind
- 22 farm decommissioning project, correct?
- 23 A. Correct.
- Q. All right. Your company has never

- 1 Levine. We know he hasn't already, so I'm asking
- 2 whether you have.
- 3 A. My -- my things in decommissioning plans
- 4 have dealt with trying to estimate what the scrap
- 5 values and the demolition costs are.
- 6 Q. Let me ask the question again, sir. You
- 7 have never put together specifications for a
- 8 decommissioning or reclamation project; is that
- 9 correct?

13

- 10 A. I have not put specifications. I have put estimates.
- Q. Okay. You've never overseen a
 - decommissioning or reclamation project from a
- 14 project management or engineering perspective; is
- 15 that correct?
 - A. Not at this point.
- Q. All right. In terms of what you've done
- in this proceeding, you mentioned briefly in your
- 19 testimony, and your report reflects as well, you
- 20 obtained a couple of estimates from Vissering
- 21 Construction?
- 22 A. Yes.
- Q. How many wind farms has Vissering built?
- A. I can't -- you would have to ask them.

Page 1204

- 1 O. You don't know?
- 2 A. I do not know.
- 3 O. Mr. Levine didn't ask them?
- 4 A. No.
- 5 Q. Okay. Well, does Vissering have any wind
- 6 farm experience of any kind?
- 7 A. As I said, if I couldn't answer your first
- 8 question, I'm not sure if I could answer that
- 9 question either.
- Q. So the answer is you don't know.
- 11 A. I don't know.
- Q. All right. You have your report there?
- 13 A. Yes, I do.
- Q. All right. Could you go to the section on
- engineering, planning and permitting? It's on page
- **16** 3.
- 17 A. Correct.
- Q. It's in the middle of the page, do you see
- 19 there?
- 20 A. I do.
- Q. And you point out Stantec estimated
- 22 \$500,000; is that correct?
- 23 A. Correct.
- Q. And you say here EVA has extensive

- 1 or Mr. Levine?
- 2 A. Both of us.
 - Q. All right. Who used the words posit and
- 4 assert?

3

- 5 A. I'd say that posit was probably Jacob.
- 6 Q. All right. I just -- I found it odd that
- 7 you refer to your number as estimating and their
- 8 numbers as posit and assert. Do you know why those
- 9 words were chosen?
- A. Just trying to be -- I think posit is a word which other people use more than I do.
- Q. All right. Well anyway, based on what you
- say is EVA's extensive experience, you've provided a
- 14 substantially smaller per turbine number than
- 15 Vissering did, correct?
- 16 A. Correct.
- Q. All right. Your lawyer -- and I know
- they're not attached to your report, but Mr.
- 19 Luetkehans was kind enough to provide me with the
- 20 Vissering estimates yesterday. I'm actually going
- 21 to be handing out three documents because this --
- 22 the actual report itself, the numbers are next to
- 23 impossible to read, especially for people of our
- 24 generation.

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Page 1205

Page 1207

- experience estimating the costs of general overhead,
- 2 management and planning in order to decommission
- 3 wind projects and estimates that these costs are
- 4 1,675,520. Do you see that?
- 5 A. I do.
- 6 Q. And I think we've established you don't
- 7 have that experience and Mr. Levine doesn't have
- 8 that experience, so who at your company presently
- 9 has the experience that you refer to on page 3 of
- 10 your report?
- 11 A. As I said, we have not done specifications
- 12 for decommissioning. That does not mean that we
- 13 have never come up with estimates for
- 14 decommissioning.
- Q. And the estimates you've come up with for
- 16 decommissioning have, the majority of the time, been
- in the context of proceedings like this, correct?
- 18 A. I'd say majority, yes, but not all.
- Q. Okay. Staying on the same paragraph, you
- also say that Vissering posits it would require
- 21 6,596,544 for the entire project if the turbines
- 23 it would cost 2,577,867 if taken down
- simultaneously. Who actually wrote this report, you

were to be removed individually and they assert that

- So I'm going to hand you Pleasant Ridge
- 2 262, which is the January 5 Vissering estimate. And
 3 then 262A and B are actually blowups of a couple of
- 4 pages. We'll be going through all of these.
 - CHAIRMAN CORNALE: For the record, we'll
- accept Pleasant Ridge Exhibit 252 as an OccupationalOutlook Handbook, Civil Engineers. We'll accept
- 8 Pleasant Ridge Exhibit 258 as the Public Service
- 9 Commission of West Virginia, Charleston. We'll
- 10 accept Pleasant Ridge Exhibit 259 as an Energy
- 11 Ventures Analysis. It's a memorandum to John Stroud
- 12 from Thomas Hewson and John Stamberg. And we'll
- 13 accept Pleasant Ridge Exhibit 262 as a breakdown of
- an estimate from Vissering Construction. 262A is a
- blowup of the same 262. And 262B, again, is a
- blowup of the original 262 exhibit.
- MR. BLAZER: Mr. Chairman, when we get to
- 18 those, I'll identify specifically what two pages
- 19 those two blowups are.
- 20 BY MR. BLAZER:
- Q. In reading one of those exhibits, the
- 22 chairman mentioned a name, John Stamberg. Is he
- 23 still with EVA?
 - A. John retired from EVA at the end of 2012.

22

Page 1208

- **1** O. 2012?
- 2 A. Correct.
- Q. Okay. Now, Pleasant Ridge Exhibit 262,
- 4 that's the one dated January 5 of this year,
- 5 correct? I think the date's in the upper right-hand
- 6 corner.
- 7 **MR. BLAZER:** Can we stipulate, Phil?
- 8 MR. LUETKEHANS: Yeah, we can stipulate.
- 9 **MR. BLAZER:** Okay, thank you. It will 10 make it easier.
- 11 A. My glasses aren't very good either.
- Q. Not a problem. In your report, you
- 13 indicate that you -- well, that EVA asked for two
- 14 estimates from Vissering, one for decommissioning
- all at once, and that's what this one is, right?
- 16 A. The first one, yes, was one by one. And
- the second one was if they were to do it and get economy, do it all at once.
- Q. So the one that assumed decommissioning
- all at once, like the Stantec report, is the one
- 21 that you have in front of you, Pleasant Ridge
- 22 Exhibit 262, correct? The January -- the one from
- January 5. Can we stipulate to that one?
- A. Yeah, I think the later one was the one

- 1 Q. Right, because the first one would be
- 2 substantially more expensive, right?
- 3 A. Yes.
- 4 Q. Okay. Page 2 of Exhibit 262 is Exhibit
- 5 262A. That's the general requirements. And if
- 6 you'll see page 2 on the actual exhibit is next to
- 7 impossible to read because the printing is so tiny,
- so let's use 262A instead.
- 9 Do you see that this shows a project
- duration of 280 weeks or 65 months?
 - A. Yes.

11

- Q. So Vissering is suggesting that this
- 13 project would take them almost five and a half years
- 14 to decommission, correct?
- 15 A. Yes.
- Q. And you said Vissering -- I believe you
- said this in response to one of Ms. Huisman's
- 18 questions. You said Vissering is the type of
- 19 company somebody would go to for decommissioning.
- 20 That's your opinion?
- 21 A. It was that they would be one of the firms
- 22 that would have bid it.
- Q. Okay. Do you know how long it's actually
- 24 going to take to build this project, assuming it

Page 1209

Page 1211

- 1 that --
- 2 Q. Right.
- 3 A. -- with everything together.
- 4 MR. LUETKEHANS: We'll stipulate to that.
- 5 Q. All right. The earlier one I'm not --
- 6 frankly I'm not even going to focus on that one,
- 7 we'll get to why in a few minutes, but you refer to
- 8 that in your report as calling for asynchronous
- **9** decommissioning?
- 10 A. Yes.
- 11 Q. And that's, as you described it,
- decommissioning one by one, correct?
- 13 A. The first one was one by one, yes.
- Q. Okay. Could you go to --
- A. Or to be more exact, what they did was
- they came up with a cost for each, decommissioning
- 17 each turbine.
- 18 Q. Right.
- 19 A. And then -- with the assumption that if
- 20 they were to do it one by one. Then asked the
- 21 question in terms of if they were to do multiple and
- 22 were able to gather some economies, what would that
- 23 number be like, and that triggered the second
- 24 estimate.

- 1 gets permitted?
- 2 A. Generally speaking, if you throw enough
- 3 people at it, you can do it in a shorter period of
- 4 time

- Q. Well, if I told you that the planned
- 6 duration of construction for this project, assuming
- 7 it's permitted, is seven to eight months, would you
- 8 have any reason to disagree with that?
- 9 A. No.
- 10 Q. All right. Did you ask Vissering where
- 11 they came up with a five and a half year duration?
- A. I think what they did if you look at it --
- Q. I'm not asking you that question, sir. My
- 14 question is did you ask Vissering where they came up
- with a five and a half year duration?
- 16 A. I was trying to answer your question. I
- 17 said what they did was they determined the amount of
- 18 man hours that were required to do each of the tasks
- and then they added up the total number of man hours. And I would assume that weeks would be a
- hours. And I would assume that weeks would be a matter of or function of how many people you threw
- 22 at it.
- Q. So is that -- are you assuming that's what
- 24 they did or did you actually talk to someone at

Page 1212

- 1 Vissering when you got this report to find out how
- 2 they came up with 280 weeks?
- 3 A. We talked to them.
- 4 Q. Who's we?
- 5 A. Huh?
- 6 Q. Who's we?
- 7 A. Myself.
- **8** Q. Oh, so you did talk to Vissering?
- 9 A. I did.
- Q. Okay. And did you ask them how did you
- 11 come up with five and a half years duration to
- decommission this project?
- 13 A. I asked them how they derived their
- 14 numbers.
- 15 Q. All right. And what did they tell you
- about why it would take them five and a half years
- to decommission this project?
- 18 A. They came up with the total number of man
- 19 hours that were required in order to do this
- 20 project.
- Q. And is that based on their extensive
- experience in wind farms?
- A. That is based upon their estimate in terms
- 24 of completing the scope of work.

- 1 Q. All right. Staying on the same table, you
 - 2 estimate a cost of 16.95 for sheepsfoot compaction
 - 3 to backfill the former access roads. Do you see
 - 4 that?
 - 5 A. You're talking about the 6.40 per square
 - 6 yard?

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- 7 Q. 16.95 per cubic yard.
 - A. Oh, no, the second one.
- 9 Q. Yes, do you see that? And could you
- 10 explain what sheepsfoot compaction is?
- 11 A. Sheepsfoot compaction is a way to compact 12 soils.
- Q. Okay. Now, you do understand that the
- 14 entire area where these access roads will be
- 15 constructed is agricultural, right?
 - A. Correct.
- Q. And you do understand that when this
- 18 project is decommissioned and these roads are
- 19 removed, to the extent they are removed, those areas
- 20 will be returned to agricultural uses, right?
- 21 A. That's the assumption.
 - Q. All right. And you're not aware that
- 23 returning those areas to agricultural use would
- require decompaction not compaction?

Page 1213

Page 1215

- 1 Q. Okay. Let's look at access roads because
- 2 I know you've spent some time on that. That's page
- 3 4 of your report. And you estimate access road
- 4 removal at 6,266,172, correct?
- 5 A. Correct.
- 6 O. And the detail for that number is on
- 7 Exhibit B5 on page 9, correct?
- 8 A. That's correct.
- **9** Q. And you estimate removal at 14.70 a cubic
- 10 yard; is that right?
- 11 A. That's correct.
- Q. How deep would that excavation be?
- 13 A. That's to remove the 53,000 cubic yards.
- Q. How many cubic yards?
- 15 A. 53,000 cubic yards.
- 16 Q. Okay.
- 17 A. And that's using the RS Means B10W.
- Q. So you're accepting the cubic yard number
- 19 from Stantec's estimate; is that correct?
- 20 A. Yes.
- Q. Okay. You have no reason to believe it's
- 22 inaccurate?
- A. I have no reason to believe that it is
- 24 inaccurate.

- 1 A. That's just taking it from and trying to
- 2 pack down so it could be used.
- Q. I'm not sure if you answered my question.
- 4 Are you aware that returning those areas to
- 5 agricultural use would require decompaction and not
- 6 compaction?
- 7 A. It would be decompacted versus what is
- 8 there now, yes.
- 9 Q. Okay.
- 10 A. It would require some --
- 11 O. Are you --
- 12 A. -- compaction.
 - MR. LUETKEHANS: Objection. I'd like him
- 14 to finish his answer.
 - **MR. BLAZER:** I believe he answered yes.
- MR. LUETKEHANS: I think he continued his answer and we've been going through that a few
- 18 times.

13

- 19 CHAIRMAN CORNALE: Mr. Hewson, could you
- 20 please finish your answer for us?
- A. Thank you. Is that it is more decompacted than where it starts, but in terms of when you bring
- in backfill, you're going to have to be able to
 - 4 spread and compact it somewhat so it doesn't blow

Page 1216

- 1 away.
- 2 Q. I see. What experience have you had in
- 3 compacting soil in agricultural areas?
- 4 A. I have not -- I have not been on a
- 5 backhoe. I've not been on a tractor, no.
- 6 Q. I assume you don't have any farming
- 7 experience?
- 8 A. I'm not a farmer.
- 9 Q. Okay. Something we have in common.
- 10 Neither am I.
- 11 A. I bet we have some out here though.
- Q. I think we do.
- 13 **AUDIENCE VOICE:** Yeah.
- Q. I think they probably know something about how to plant crops.
- Staying with Exhibit B5 on page 9, you
- have \$3,221,478 for landscaping/seeding/cleanup,
- 18 correct, at 10.14 a square yard?
- 19 A. Combination of the two, yes.
- 20 Q. Okay.
- 21 A. Topsoil replacement being \$6.40 a square
- 22 yard plus \$3.74 for beaching.
- Q. Okay. What landscaping are you talking
- 24 about?

- 1 and reclamation is not adequate, correct?
- 2 A. That's correct.
 - O. You think it's too low?
- 4 A. Yes.

3

- 5 Q. I gave you Stantec's report there, our
- 6 Exhibit 28.
- 7 A. Right. They're assuming that they are
- 8 going to be able to sell --
- 9 Q. No, no.
- 10 A. -- a portion.
- 11 Q. No, hang on.
- 12 A. Do you want me to answer your question or
- 13 not?
- Q. Don't get ahead of me. I'm going to get
- 15 you to where I want you to go. You have Stantec's
- 16 report there?
- 17 A. I do.
- Q. Okay. Could you go to Table 3 on page 8?
- 19 A. Yes
- Q. And down at the bottom there, do you see
- 21 the \$850,000 figure for access road excavation and
- 22 removal?
- 23 A. Yes.
- Q. What's the line below that?

Page 1217

Page 1219

- 1 A. This is to be able to put topsoil
- 2 replacement and beaching and using -- it's based
- 3 upon the crews in RS Means in terms of productivity
- 4 and how much they cost.
- 5 MR. LUETKEHANS: Did you say landscaping?
- 6 I think I'm reading land scraping. I'm just making
- 7 sure --
- 8 MR. BLAZER: I'm sorry, land -- I did
- 9 misspeak, I apologize. Land scraping, seeding and10 cleanup.
- 11 MR. LUETKEHANS: Thank you.
- Q. And by beaching, you mean area restoration
- 13 after road removal, correct?
- 14 A. Correct.
- Q. Okay. Staying on access roads, could you
- go back to page 4 of your report?
- 17 A. Okay.
- 18 Q. And you say that on access roads Stantec
- 19 estimates that a lump sum of \$850,000 will be
- 20 sufficient to fully remove all access roads and
- 21 reclaim land to its preexisting condition. Do you
- see where I'm reading from in your report?
- 23 A. Yes, I do.
- Q. So you're saying that \$850,000 for removal

- 1 A. Topsoil replacement and rehabilitation of
- 2 site.

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- 3 Q. How much?
- 4 A. A million.
 - Q. Okay. Now, let's stay on the Stantec
- 6 report. Still on page -- going to page 9, Table 4
- 7 at the bottom
- 8 A. Can I just make a comment? Is that --
- 9 Q. There's no question pending, sir. If you
- could go to page 9, Table 4, at the bottom. Stantec
- 11 estimates recovery of \$300,000 from the sale of the
- 12 access road combined fill aggregate for reuse,
- 13 correct?
- 14 A. That's correct.
- Q. And you criticize that in your report,
- 16 correct?
- 17 A. That's correct.
- 18 Q. All right. So let's go back to your
- report. Back to Exhibit B5 on page 9.
- 20 A. Okay.
 - Q. Am I correct in the way I'm reading this
- in the last two columns, you're assuming no fill
- could be reused and would need to be landfilled at a
 - cost of approximately \$1,267,000; is that correct?

Page 1220

- 1 A. Yes, we would be landfilling. That is a 2 major difference.
- Q. Okay. And according to -- according to
- 4 note 2, this is based on some of these verbal quotes
- 5 or conversations that Mr. Levine got in November of
- 6 last year; is that correct?
- 7 A. Yes, when we contacted the landfills.
- 8 Q. All right, and by we --
- 9 A. And the concrete companies, by the way.
- Q. And by we, you mean Mr. Levine, correct?
- 11 A. He was the one who did the calling on the phone.
- Q. And I believe you said, and tell me if I'm
- wrong, but I believe one of the landfills he
- 15 contacted was the Livingston landfill, Allied Waste?
- 16 A. Livingston County landfill, yes.
- 17 Q. Okay.
- 18 A. He also contacted a bunch of concrete
- 19 companies to see if they would take -- as Stantec
- 20 suggested, be able to buy it, and I couldn't find
- 21 any takers for it.
- Q. Do you know what clean construction
- 23 demolition debris is?
- A. Yes. It depends upon the type of project

- 1 Q. Do you know if the access road material
 - 2 would qualify as uncontaminated fill that is not a
 - 3 waste and does not have to be landfilled?
 - 4 A. I do not know.
 - Q. All right.
 - CHAIRMAN CORNALE: Mr. Blazer, if you
 - 7 can --

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MR. BLAZER: I'm sorry, I was waiting for

Tom.

on this end. Mr. Blazer has indicated he would like to go to around ten o'clock this evening. We're

willing to stay. We understand the witness is in

from a long ways. You guys can bear with us. Mr.

15 Blazer is going to work to expeditiously go through

his material, and hopefully he'll start to collate

this material and send it over in a big group totake it as evidence.

MR. BLAZER: You got it.

20 **CHAIRMAN CORNALE:** Thank you.

21 BY MR. BLAZER:

Q. You've been handed what's been marked as Pleasant Ridge Exhibit 260, which are sections of

the Illinois Environmental Protection Act and the

Page 1221

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Page 1223

- 1 we're dealing with.
- Q. And are you familiar with the clean
- 3 construction and demolition debris provisions of the
- 4 Illinois Environmental Protection Act and its
- 5 regulations?
- 6 A. I am not.
- 7 Q. You're not aware that those provisions
- 8 define what is clean fill and where it can be
- 9 placed?
- 10 A. I have not reviewed those regulations,
- 11 that is correct.
- Q. All right. So you don't know that the
- 13 access road material would qualify as uncontaminated
- 14 fill that isn't a waste and doesn't have to be
- 15 landfilled?
- MR. LUETKEHANS: Objection. Assumes factsnot in evidence. I have not heard anyone say that
- other than Mr. Blazer.MR. BLAZER:
- 9 **MR. BLAZER:** I'm asking him if he knows.
- MR. LUETKEHANS: Well, ask him if he
- 21 knows, not say it is as a statement.
- MR. BLAZER: All right. I'll rephrase the question.
- 24 BY MR. BLAZER:

- 1 accompanying regulations.
 - I assume you're the one who gave Mr.
- 3 Levine the direction of what he should do in this
- 4 project?
- 5 A. Correct.
- 6 Q. And did you ask him to check Illinois law
- 7 on the use of clean fill in this state?
 - A. I did not.
- 9 Q. So you've never seen those provisions
- 10 before?
- 11 A. I assumed that this material has to be put
- 12 somewhere.
- Q. That's not my question, sir. I asked have
- you ever seen those materials before?
- 15 A. I have not seen these regulations, no.
- Q. Let's go to crane pad removal, top of page 4 of your report.
- A. You know, it's going to have to be placed somewhere in terms of all these --
- Q. Let's go to crane pad removal. We all
- 21 have an interest, Mr. Hewson, in finishing as
- 22 quickly as possible so we get you back home, so I
- ask you to focus on the questions I'm asking you.
- 24 A. Okay.

Page 1224

- 1 Q. Crane pad removal, top of page 4 of your
- 2 report.
- 3 A. Correct.
- 4 Q. You estimate \$15,818 per turbine site with
- 5 a total decommissioning cost of 2,151,048, correct?
- 6 A. I agree with the 2,151,048, yes.
- 7 Q. Okay. And the crane pads that you're
- 8 referring to here are the pads that would be used
- 9 for the actual deconstruction of the turbines?
- 10 A. The construction and deconstruction.
- 11 Q. All right. Does this include removal for
- pads that were used in construction?
- A. This is for just the pads removal at the
- 14 end of the decommissioning, yes.
- O. All right, so we're clear. And what kind
- of pads are those going to be?
- 17 A. These are pads -- first of all, the design
- 18 specs were not provided for this analysis, so we do
- 19 not have a design of the concrete pads.
- Q. So you don't know.
- 21 A. Well, I wish I did --
- Q. But you don't.
- A. -- but it was not part of the application.
- Q. So you don't know.

- 1 actually installed a turbine transformer; is that
- 2 correct?
- 3 A. I said I did not know.
- 4 Q. Okay. You do know that there have been
- 5 occasions in the history of wind farms where turbine
- 6 transformers had to be replaced?
- 7 A. Yes.

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- Q. Okay. Do you know how Vissering estimated
- 9 this amount?
- 10 A. I just said that I used their estimate.
 - Q. What I'm asking you is do you know how
- they estimated this amount?
- 13 A. I do not know how they developed their
- 14 estimate.
- Q. Okay. If you go to 262B, that's the other
- blowup of their estimate that I gave you.
- 17 A. Okay.
- 18 Q. And it's line item 02200.11.
- 19 A. Correct.
- Q. Except this line item is for
- 21 demo-substation, do you see that?
- A. Yes. They subsequently told me that that
- had been an incorrect label, that it meant for the
- 24 transformers.

Page 1225

Page 1227

- 1 A. I don't know how they were designed.
- 2 Q. All right. And you say here that
- 3 Vissering Construction Company's estimate provides
- 4 local insight into the construction costs for wind
- 5 project decommissioning in the state of Illinois.
- 6 Did I read that correctly?
- 7 A. That's correct.
- 8 Q. And I think we've established, maybe we
- 9 haven't but I think we have, you're not aware of any
- 10 wind farms in Illinois that have been
- 11 decommissioned, correct?
- 12 A. None to my knowledge.
- Q. All right. Let's go to page 8, Exhibit B1
- of your report. And I'm focussing on turbine
- transformer removal. Do you see that line?
- 16 A. Correct.
- 17 Q. And you have 24 -- 24,694 per turbine for
- 18 a total of 3,358,384, correct?
- 19 A. Correct.
- Q. And according to note 2, that's based on
- numbers from Vissering; is that correct?
- 22 A. Correct.
- Q. All right. And I think we've already
- established you don't know if Vissering has ever

- 1 Q. Right. And I assumed that because it says
- 2 136 of them, right?
- 3 A. That's correct.
- 4 Q. All right.
- 5 A. Because I asked the same question.
- 6 Q. Good. We actually agree on something. So
- 7 they're referring to the pad-mounted transformers at
- 8 each turbine, correct?
- 9 A. That is correct.
- 10 Q. And if we look at their number and I add
- 11 that -- you see they show a deduction of \$201,000
- 12 for scrap value?

- A. Correct.
- Q. So if I add that back in, their total is
- 2,884,157 for this piece of the project, correct?
- **16** 2,683,157 plus 201.
- 17 A. So you're saying -- are you taking out the
- 18 cost of what they had as the transformer?
- Q. No, I'm taking out the scrap value. Right
- 20 now, I just want to ask you about the cost
- 21 without --
- A. I see the line item that says 2,135,230.
- Q. Well, they show a total of 2,683,157 for
 - that entire section for demo-substation, correct?

Page 1228

- 1 A. Right.
- 2 Q. Okay. And part of that is a deduction of
- 3 \$201,000 for scrap or salvage value. Do you see
- 4 that?
- 5 A. Yes.
- 6 Q. Right now, I want to add that back in so
- 7 we know what the gross cost is, okay?
- 8 A. Uh-huh.
- 9 Q. So the gross cost would be 2,884,157,
- 10 correct?
- 11 A. The 2,884,157 which is --
- Q. 2,683,157 plus 201. Even that one's a
- 13 little difficult to read. That's as big as I could
- 14 blow it up.
- 15 A. I'm having problems reading all these
- 16 small numbers.
- Q. Well, I'll represent to you that the
- 18 number, the total number, so we can move on, is
- 19 2,884,157.
- 20 A. Okay.
- Q. I divided that by 136 and that works out
- to 21,207 per turbine not your number of 24,694. Do
- you know where that \$3,000 difference between what's
- in your report and what's in their estimate came

1 A. Yes.

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- 2 Q. All right.
 - A. Just not wind projects.
- 4 Q. Right, I understand. And there are
- 5 companies that do specialize in decommissioning and
- 6 deconstruction, correct?
- 7 A. Correct.
 - Q. And there are also companies that actually
- 9 do have significant experience in the construction
- of wind farms, correct?
 - A. Yes.
- Q. For example, Michels, it's M-I-C-H-E-L-S,
- are you familiar with them?
 - A. I do not know who's won each of the
- 15 individual contracts for wind projects in Illinois.
 - Q. You never dealt with Michels Corporation?
- 17 A. I came across an estimate by Michels
- 18 Corporation of a decommissioning cost estimate.
 - Q. Are you familiar with Boldt Construction?
- 20 That's B-O-L-D-T.
- A. As I said, I'm not familiar with who are the individual contractors who have put up projects.
- Q. How about Mortensen, have you ever heard
- 24 of them?

Page 1229

Page 1231

- 1 from?
- 2 A. I'd have to look at the numbers.
- Q. Okay. Well, in any event, they show a
- 4 lump sum for an electrician to deenergize of a
- 5 million seven, correct?
- 6 A. That's correct.
- 7 Q. And presumably that would be a union
- 8 electrician?
- 9 A. One would imagine, yes.
- 10 Q. All right. So at an assumed rate of \$100
- an hour, that would mean 17,000 hours on site or 125
- hours per turbine; is that correct? If you divide
- 13 17,000 by 136, you come up with roughly 125.
- 14 A. I haven't done the calculation.
- Q. But I'll represent to you that's what the
- calculation is. Do you have any idea what
- 17 Vissering's basis is for assuming that deenergizing
- a pad-mounted transformer will take 125 man hours?
- 19 A. I do not know the basis of their
- 20 estimates.
- Q. Okay. You do -- I think we can agree
- 22 decommissioning and deconstruction of industrial and
- 23 commercial facilities have been going on for a very
- 24 long time, right?

- 1 A. I repeat, I do not know who has put up
- 2 each of the individual projects.
- Q. White Construction, you've never dealt
- 4 with them either?
- 5 A. I will repeat that I do not know who has
- 6 put up each of the individual projects in Illinois.
- 7 Q. Why didn't you ask Mr. Levine to contact
- 8 -- since you contacted all these companies, why
- 9 didn't you ask Mr. Levine to contact a company that
- 10 actually had experience in building a wind farm?
 - A. As far as a decommissioning cost?
- Q. As far as getting a decommissioning estimate, yes.
- A. The reason was that we were originally
- 15 hired to do our own independent analysis. And then
- 16 we received the Vissering report, and so we thought
- 17 that was also a good report that we put in and
- 18 incorporated.
- Q. I'm not sure if you answered the question,
- 20 sir. I apologize.
- 21 A. I did not contact anyone who is -- in
- 22 terms of outside Vissering, we were not in contact
- 23 with any other contractor.
- Q. All right. Do you know if any of those

Page 1232

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- 1 four companies own their own heavy equipment rather
- 2 than leasing it?
- 3 A. I don't know what equipment each one owns.
- 4 Q. All right. Do you know if those companies
- 5 could bid and perform decommissioning work on
- 6 projects like -- on the projects that they build?
- 7 A. I would assume they could.
- 8 Q. All right. Let's go to page 4 of your
- 9 report on scrap value. You rely on the scrap
- 10 pricing from G&D Salvage in Loda, Illinois?
- 11 A. Correct. That was the highest bid.
- Q. And G&D is an auto salvage yard, aren't
- 13 they?
- 14 A. I would say one of the scrap yards.
- Q. Did you deal with them again or did Mr.
- 16 Levine?
- 17 A. Mr. Levine called each of the salvage
- 18 yards.
- 19 Q. All right. And do you know if G&D is a
- 20 member of the Institute of Scrap Recycling
- 21 Industries, known as ISRI?
- 22 A. I don't know who is a member and not a
- 23 member.
- Q. You are familiar with ISRI, aren't you?

- 1 remember, if he asks you about G&D, answer about
- 2 G&D. Don't extrapolate; answer about G&D. And if
- 3 he asks you about somebody else, then you can talk
- 4 about them. Stay on task.
 - A. I'll do my best.
- 6 **CHAIRMAN CORNALE:** Thank you.
- **7 BY MR. BLAZER:**
- 8 Q. Let's go to page 2 of your report under
- 9 the second paragraph. And you say that if all
- 10 turbines were scrapped at once, the large steel
- 11 scrap volumes created would flood the market and
- drive down the local scrap prices, correct?
- 13 A. I said it could.
 - Q. All right. Well, I think you testified in
- response to one of Mr. Luetkehans's questions that
- 16 you assumed there would be an effect on the market
- 17 price, correct?
- 18 A. I said there would likely be.
 - Q. Okay. Now, I know you track the energy
- 20 industry as part of your responsibilities with EVA.
- 21 Do you also track the scrap metal industry?
 - A. Periodically, yes.
- Q. What do you mean by periodically?
- A. Well, when we do any decommissioning

Page 1233

Page 1235

- 1 A. Huh?
- 2 O. You do know what ISRI is?
- 3 A. I have come across that before.
- Q. Okay. And so I assume you do know that
- 5 there are companies that are just in the business of
- 6 materials recycling and scrap brokering?
- 7 A. Yes, there are.
 - Q. And is G&D a scrap broker?
- 9 A. It is a scrap yard and they do pay for
- 10 steel, scrap steel and copper.
- 11 O. Okay.
- 12 A. As the other -- I mean we contacted four
- 13 of them --

8

- Q. Well, right now --
- 15 A. -- which I'm trying to find --
- Q. Right now, Mr. Hewson, again --
- **MR. LUETKEHANS:** Can the witness please be
- allowed to finish the question? He was answering the question.
- MR. BLAZER: He was answering -- he had
- finished answering my question about G&D. I didn't ask him about anybody else.
- 23 CHAIRMAN CORNALE: All right, guys, just
- relax, just let him finish his answer. But

- costs, it's important to keep track of scrap yards
- 2 and what is the scrap value.
 - Q. So I assume you know that scrap steel as a
- 4 commodity has its price set by national and
- 5 international markets?
- 6 A. I know that there is a -- I do not believe
- 7 that all scrap is set by international markets.
 - Q. Well, at least national markets, correct?
- 9 A. I believe that the price is more likely to
- 10 be set, in terms of local scrap yards, as to where
- 11 they sell it, as to a person who would be able to
- 12 process it and reuse it.
 - Q. Well, isn't the price of scrap steel or
- 14 the demand of scrap steel based on the demand at the
- 15 steel mills?
- A. That is one of the elements, yes, and the cost of processing via -- electric arc furnace for
- 18 the cost of processing.
- Q. I assume based on experience you know that steel is the most recycled material in the United States?
 - A. I know it is probably the most, yes.
- Q. All right. Would it surprise you to know
 - that in 2012 over 86 million U.S. tons of steel were

Page 1236

- recycled in the United States?
- A. I haven't looked up the number. 2
- Q. All right. I did and I'll represent to 3
- you that's the latest figure as of 2012.
- A. Okav.
- Q. Do you know what the total weight of the 6
- steel from the Pleasant Ridge wind farm would be?
- A. It's 192 tons per turbine times 136.
- Q. 26,112 tons? I did the math. Trust me, 9
- it's 26,112. 10
- A. Okay, yes, 26. 11
- Q. Okay. And if I did the following math 12
- right, that represents approximately 3/100ths of 1 13
- percent of the market of scrap steel in the U.S.
- 15 Does that sound right? I plugged 26,112 into 86
- million. 16
- A. Given your total market, that would be 17 18
- about right.
- 19 Q. Okay. Let's go back to Stantec's
- decommissioning plan. Actually we don't have to. 20
- You remember their per turbine decommissioning cost 21
- after taking everything into account is 36,977. Do 22
- you remember that number? You can take a look. 23
- It's page 11, top of the page.

- A. 10 percent would be -- it's unusual 1
- probably to get a 10 percent range from low to high 2
- 3

9

16

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23

- Q. Okay. I'd like to go to one of your more 4
- recent efforts on behalf of wind farm opponents. 5
- Just a couple years ago, you testified for opponents 6
- 7 with respect to the Green River wind project in Lee
- County. Do you recall that one?
 - A. Yes.
- Q. And the applicant on that case was a 10
- 11 company called Mainstream Renewables?
- A. Yes. 12
- Q. And do you recall that the Lee County wind 13
- ordinance, oddly enough, didn't require a 14
- 15 decommissioning plan? Do you remember that?
 - A. I believe we were suggesting that they should adopt a decommissioning plan.
- Q. Right, because the -- remember, the 18
- 19 ordinance didn't require one?
 - A. I don't remember all the individual requirements at this time.
 - Q. All right.
- CHAIRMAN CORNALE: For the record, we need 24
 - to clean up one of these exhibits. There was a

Page 1237

Page 1239

- A. It's also on page 3 of mine, okay. 1
- 2 Q. 36,977. And your number is 103,627,
- right? 3
- A. Correct. 4
- Q. And that's a pretty significant 5
- difference, we can agree on that? 6
- 7 A. I would agree, yes.
- Q. And just so we're clear, your report here 8
- is an estimate, right? 9
- A. Oh, definitely. 10
- Q. Okay. Do you allow for any kind of margin 11
- of error in your estimate? 12
- A. I haven't said plus or minus a percentage, 13
- 14 no.
- Q. All right. Well, is there a level at 15
- which the differential between your estimate and
- Stantec's would be within some acceptable margin of 17
- error? 18
- A. I -- I would say that -- yeah, I mean if 19
- we -- if we were plus or minus a few percent, sure. 20
- Q. Three percent? 21
- A. I said a few percent. 22
- Q. A few could be as much as 10 percent 23
- given --

- second Pleasant Ridge Exhibit 260 handed out, the
- same number as another one. And so Pleasant Ridge 2
- Exhibit the second 260, which is a construction or 3
- demolition debris Illinois state statute, we're 4
- going to call that Pleasant Ridge Exhibit 1260. 5
- Just add a one in front of it. 6
- MR. BLAZER: I apologize, Mr. Chairman. 7
- BY MR. BLAZER: 8
- Q. Mr. Hewson, Pleasant Ridge Exhibit 255 is 9
- an excerpt of the decommissioning report that you 10
- submitted in the Green River proceeding. Do you 11
- recognize that? 12
 - A. It looks the same, yes.
- Q. Okay. And if you go to page 3 -- and you 14
- 15 can see I've just included the executive summary so
- we don't have the whole report, but that summarizes 16
- the entire report. You'll see the estimate on --17
- the table on page 3, Mainstream had estimated a 18
- total of 111,345 for 59 turbines. Do you see that? 19
- 20 A. Yes.
 - Q. Okay. That's a pretty low one. It was
- only approximately \$1900 per turbine, do you see? 22
- 23 Is that correct? If you divide 111,345 by 59, it's
- 1900. 24

13

Page 1240

- A. You want me to divide it? 1
- Q. I did it, but if you need to check it, go 2
- ahead. I'll represent to you 1900. 3
- A. That's what you're saying in the column 4
- that their decommission cost estimate was.
- Q. Right. Now you estimated, as opposed to 6
- them, a total of 13,223,678, correct? 7
- A. Correct. 8
- Q. And if we divide it by 59, which I did, 9
- that comes up with approximately \$224,000 per 10
- turbine --11
- 12 A. Correct.
- Q. -- correct? 13
- A. Uh-huh. 14
- Q. Vissering's estimate for asynchronous 15
- decommissioning is 233,000 and change per turbine, 16
- right? 17
- A. Vissering's being 206 --18
- 19 Q. 233,432 per turbine for asynchronous
- 20 decommissioning.
- A. 265,812 for one at a time, yes. 21
- Q. Okay. 22
- 23 A. So they're between 206 -- it's on page 3
- of my report. 24

- A. I have not. What I've done is I was asked 1
- to evaluate Stantec's report. 2
- 3 Q. So you haven't reviewed this county's
- ordinance to determine whether or not Stantec's
- report complies with the requirements of that 5
- ordinance? 6
- 7 A. I did not.
 - Q. All right. All right, let's go back to
- Stantec's decommissioning plan. I'm almost done.
- Almost is a relative term. 10
 - Section 1.2, pages 1 to 2.
- A. Where am I? 12
- Q. I'm sorry, Stantec's report, our Exhibit 13
- 28. 14

8

11

16

- A. And you're where? 15
 - Q. Pages 1 to 2, Section 1.2.
- 17 A. Yes.
- Q. Okay. Do you agree that this section -- I 18
- 19 understand you don't agree necessarily with the
- content, but do you agree that the section describes 20
- 21 the triggering events for decommissioning the
- Pleasant Ridge project? 22
- A. Yes. 23
- 24 Q. And the plan presupposes that

Page 1241

Page 1243

- Q. Right, okay. So I think we can move on 1
- 2 from there. And are you aware that the Lee County
- board approved the Green River wind project? 3
- A. I believe that it was one county that did 4
- not approve it. I thought it was Lee County, but I 5
- could be incorrect. This one I think covered three 6
- 7 different counties, Bureau, Whiteside and Lee.
- Q. You've been handed what I marked as 8 Pleasant Ridge Exhibit 256, which are minutes of the
- meeting of the Lee County board at which they 10
- approved the Green River project in 2013, on May 21 11
- of 2013. And you'll see in the lower right-hand 12
- corner I added some page numbers, LCB numbers, do 13
- you see that? 14
- A. Okav. 15
- Q. Okay. And if you could go to page LCB 16
- 002, paragraph 2. You there? 17
- A. Yes. 18
- Q. The Lee County board required \$40,000 per 19
- turbine for decommissioning; is that correct? 20
- A. Correct, that's what it says. 21
- Q. All right. Have you read the 22
- decommissioning provisions of Livingston County's 23
- wind ordinance?

- decommissioning will happen all at once, right,
- 2 instead of in an asynchronous method.
- A. It says it will occur at the end of the 3
- project's useful life -- okay, it says it's based
- upon the life of the project not on the individual
- turbines. 6
- 7 Q. And you testified today and it's also in
- your report that you believe that some turbines may
- fail earlier than the assumed 20 year life cycle and 10
 - may require sporadic removal; is that correct?
- A. I'm saving that, ves, they will -- that 11
- there's likelihood that there will be some that will not reach 20 years. 13
- Q. Okay. And you made the same argument in 14
- Lee County in the Green River proceeding, correct? 15
 - A. Yes.
- Q. And the Lee County board didn't agree with 17
- you, did they? 18
- A. I think the Lee County board made the 19 decision that they made. 20
- Q. Okay. Who asked Vissering to provide an 21
- estimate of asynchronous decommissioning? 22
- A. I do not know. 23
- Q. So let's talk about this potential of 24

12

Page 1244

- asynchronous decommissioning, for want of a better
- description. As I understand, your assumption is
- that an operating wind farm -- there's an operating
- wind farm and a decision is made to decommission one
- turbine, correct?
- A. Depending upon how the scope of work is 6
- defined, it could be at the end of an individual
- turbine or at the end of a series of turbines or at 8
- the end of all the turbines. I said that that was 9
- an important part of the scope of work because it 10
- 11 has different cost implications.
- Q. It certainly does. So let's talk about 12
- that one hypothetical turbine that has to be 13
- decommissioned. 14
- 15 A. Okay.
- Q. Why is that individual turbine being 16
- decommissioned? 17
- A. It would be decommissioned because it 18
- 19 would be a requirement for you getting a special use
- 20 permit.
- 21 Q. So if it hasn't been operating for more
- than 12 months? 22
- 23 A. Depending upon how it is defined in the
- 24 scope of work, it could be from -- let's say if it

- decommissioned?
- A. To be correct, I said that individual
- 3 turbines may not last the full lifetime of their
- project. 4

6

- Q. Again, that wasn't my question. 5
 - A. And so the question is is decom --
- 7 decommissioning or not is the question. And I know
- of -- I have data in terms of specific turbine
- failures and when they occurred, and I do not have a
- database in terms of when the turbines were 10
- 11 decommissioned. I have a database of when turbines
- failed, not when they're decommissioned. 12
- Q. Let me try it a different way. Has 13
- Invenergy, to your knowledge, ever decommissioned an 14
- individual turbine in a project that is otherwise 15
- continuing to operate? 16
- A. I have no data to be able to confirm or 17 refute. 18
- 19 Q. Do you know what Invenergy's policy is
- regarding the decommissioning of an individual 20
- 21 turbine in a project that is continuing to operate?
 - A. I do not.
- 23 Q. Have you reviewed the record in this case
- 24 as it relates to your testimony?

Page 1245

22

Page 1247

- has not operated, creating power, in 12 months would
- 2 be one possible explanation.
- Q. All right. If there's an operating wind 3
- farm and one turbine goes down for whatever reason,
- mechanical failure, whatever it may be, and just
- assuming for the sake of argument that the operating 6
- company decides to decommission it, wouldn't that be 7
- an operating expense? 8
- A. Sure. 9
- Q. All right. It wouldn't come out of any 10
- financial assurance fund, would it? 11
- A. Well, I guess it all depends upon how it's 12
- done, but if you would be generating income from the 13
- sales, that you would assume would be sufficient to
- cover the decommissioning cost of one. 15
- Q. And actually if it's a mechanical failure 16
- that's severe enough to take the entire turbine 17
- down, there might even be an insurance claim for 18
- that turbine, right? 19
- A. Correct. 20
- Q. Do you have any real world experience from 21
- any Invenergy project anywhere in the country --22
- 23 let's go broader -- anywhere in the world to support
- your hypothesis that individual turbines may be

- MR. LUETKEHANS: Objection, form. I don't 1 2 even know what that means. I have no idea what that
- 3 question --
- Q. Well, for example, have you reviewed Mr. 4
- Rautmann's testimony? 5
- **MR. LUETKEHANS:** That question I 6
- 7
- A. I have reviewed Mr. Rautmann's testimony. 8
- Q. Have you reviewed Mr. Parzyck's testimony? 9

10

- Q. Well, would it surprise you to know that 11
- Mr. Parzyck confirmed that the two primary 12
- objectives for operating wind facilities is to 13
- maximize production, generate more power, and to 14
- 15 maximize reliability, which is to keep the facility
- up and running? 16
- A. I would think that sounds like that makes 17
- sense. 18
- Q. All right. And I have here UCLC Exhibit 19
- No. 1, which Mr. Luetkehans introduced, which is a 20
- presentation by Mr. Parzyck from February 8th, 2012. 21
- Have you ever seen that document before? 22
- 23 A. Does not ring a bell.
 - Q. Okay. Nobody's shown that to you?

Page 1248

- 1 Nobody's shown that to you as far as you know?
- 2 A. Not that I remember.
- Q. Now, you do have experience with respect
- 4 to the financing of wind projects, right? I think
- 5 you've testified to that.
- 6 A. Yes.
- Q. And you have experience as to how they fit
- 8 into the overall energy marketplace?
- 9 A. Yes.
- Q. All right. So you know that revenue from
- wind farms is directly related to megawatt hours of
- power sold to utilities?
- 13 A. I do.
- Q. And the financial model for a wind farm is
- based on the power output and reliability of the
- 16 wind turbines, right?
- 17 A. It's mostly based upon power output, yes.
- 18 Q. Okay. And that revenue and that financial
- 19 modelling is taken into account in the financing of
- a project like this, right?
- 21 A. Correct.
- Q. And then obviously the revenue is used for
- 23 the debt service after it's built, right?
- A. That would be one of the primary uses,

- 1 Q. All right. So they need -- so the
- 2 developers need to amortize those significant
- 3 upfront costs over a number of years, correct?
- 4 A. Yes. In fact, they're able to get
- 5 accelerated depreciation over five years.
- 6 Q. Okay. So they enter into long-term
- 7 easements and long-term power purchase agreements,
- 8 right?
- 9 A. Yes.
- Q. And that's why, for example, the wind
- 11 easement agreements in this case, which I know
- you've reviewed, are for an initial term of 25 years
- with an option for an additional ten years, correct?
- A. I have not reviewed the easements in this
- 15 case. I have reviewed the -- in the application how
- 16 they were characterized.
- 17 Q. All right, so --
- 18 A. If you'd like to provide me with an
- 19 easement, I'd be more than glad to look at it.
- Q. I'll hand you what's previously been
- 21 marked as Pleasant Ridge Exhibit 7, which is the
- sample easement agreement that's in the record here.
- 23 And paragraph 3 on page 3 is the term of the
- 24 agreement. Do you see that?

Page 1249

Page 1251

- 1 yes.
- Q. Okay. And the revenue from a wind farm
- 3 comes from a power purchase agreement with a utility
- 4 like Comm Ed, correct?
- 5 A. That's one of the sources, yes. Not the
- 6 only source.
- 7 Q. And the utility buys the power from the
- 8 wind farm?
- 9 A. It does.
- Q. And those are generally multi-year
- 11 agreements, right?
- 12 A. Yes.
- Q. And they're generally tied to the
- estimated useful life of the project; is that
- 15 correct?
- A. I've seen several different ones. Some are tied to a 20-year power purchase agreement.
- Q. One of the reasons why they're multi-year
- agreements is because there's a significant upfront
- 20 cost in building one of these, right?
- 21 A. Oh, yes. It's all upfront capital, yes.
- Q. There's not a significant operating cost
- once these are built, right?
- 24 A. No. Or very low.

- 1 A. Yes.
 - O. You see that's for an initial term of 25
- 3 years?

2

- 4 A. Automatically extended for an additional
- 5 25 years I see.
- 6 O. And then --
- 7 A. And with a -- grantee shall have the
- 8 preferential right upon written notice to the owner
- 9 to extend another ten years.
- 10 Q. All right. So generally speaking, if a
- 11 project has a 20-year useful life, you would expect
- to see a 20-year power purchase agreement, right?
 - A. I would.
- Q. And those power purchase agreements are
- obviously for all of the power generated by the
- 16 project, right?
- 17 A. In some cases. There's power purchase
- 18 agreements within projects where it gets divided
- 19 among several different utilities.
- Q. But in that case, collectively the
- 21 agreements are for all of the power generated by the
- 22 project, correct?
- A. Generally, yes.
- Q. All right. And in this project, for

Page 1252

- 1 example, if we assume a total output of 250 --
- 2 roughly 250 megawatts, a power purchase agreement
- 3 would be for that entire amount, correct?
- A. I would imagine you would have to have a
- 5 power purchase agreement in order to finance this
- 6 project.
- 7 Q. All right. Would you agree that it's in
- 8 the interest of a developer like Invenergy to keep
- 9 the project operating in optimal capacity throughout
- 10 its useful life?
- 11 A. I think that is the objective of all
- 12 people who operate.
- Q. So I suppose it wouldn't surprise you that
- 14 that is, in fact, Invenergy's business model for
- 15 these projects.
- 16 A. Not surprised.
- Q. All right. Now, you've said I believe
- 18 that Invenergy's a very large company during your
- 19 testimony.
- 20 A. Yes, it is.
- Q. All right. And so are you aware that
- 22 Invenergy is, in fact, North America's largest
- 23 independent wind power company?
- A. I haven't tried to see where they rank,

- 1 I've never tried to calculate it. And are you
- 2 taking your LLCs and putting them all under one
- 3 company?
- 4 Q. Let's go back to Stantec's decommissioning
- 5 plan. It's Section 2. Starts on page 3.
- 6 A. Okay.
- 7 Q. And it actually goes all the way through
- 8 Section 2.8 on page 7. I just want to ask you a
- 9 general question about that entire section. That
- 10 section addresses the removal of structures, debris,
- 11 cabling, including those below the soil surface,
- 12 correct?
- 13 A. Correct.
- Q. All right. And then if you go to page 7,
- 15 Section 2.9, that part addresses restoration of soil
- 16 and vegetation, correct?
- 17 A. Correct.
- Q. And it also references the proposed
- 19 Agricultural Impact Mitigation Agreement that
- 20 Pleasant Ridge has submitted to the county, correct?
- 21 A. That does.

22

- Q. Have you seen that document?
- 23 A. I have not.
- Q. Now, if you could go to Section 3, that's

Page 1253

Page 1255

- but I know they're right up there, if not the top.
- 2 Q. Are you aware that they have built 46 wind
- 3 farms across the U.S. and Canada and Europe?
- 4 A. That would not surprise me.
- 5 Q. All right. Well, are you aware that they
- 6 have 1900 turbines currently operating in the U.S.
- 7 with a nameplate capacity of approximately 3,000
- 8 megawatts?
- 9 A. I do not have their data in front of me.
- Q. All right. Do you have any reason to
- 11 dispute those numbers?
- 12 A. I assume that you all know how many you
- 13 have.
- 14 Q. Okay. And so --
- 15 A. And I don't think that would make you the
- 16 largest, by the way.
- Q. If I told you that they have over 72
- 18 million operating hours in the U.S., would you have
- any reason to dispute that?
- A. I haven't ever tried to calculate it.
- Q. All right. And would you have any reason
- to dispute my statement that they have over 12
- 23 million operating hours just in Illinois?
- A. I would imagine they have quite a few.

- 1 on pages 8 to 10, this is the estimate of the
- 2 decommissioning cost, correct?
- 3 A. That's correct.
- 4 Q. And then if you go back to actually the
- 5 first page of the report, you'll see it's certified
- 6 by a professional engineer, correct? That's Mr.
- 7 Rautmann.
- 8 A. Correct.
- 9 Q. It has his engineer's seal on it?
- 10 A. It does.
- 11 Q. Have you reviewed Mr. Rautmann's
- experience in decommissioning projects?
 - A. I have not.
- Q. All right. Let's go to the section on the
- 15 decommissioning plan on financial assurance. That's
- 16 Section 3.4, pages 10 to 12.
- 17 A. Okav.
- Q. The first paragraph provides that the
- 19 estimate is to be updated every three years or as
- 20 determined by the zoning administrator, correct?
 - A. Correct.
- Q. Now, let's go up to the top of page 11.
- 23 That provides for the financial assurance and the
- amount of the estimate of the decommissioning cost,

21

Page 1256

1 correct?

3

- 2 A. That is his estimate, yes.
 - Q. Okay. And the financial assurance is
- 4 supposed to be in the form of an irrevocable letter
- 5 of credit or cash placed in a county escrow account,
- 6 correct?
- 7 A. That's what it says.
- 8 Q. And do you know whether or not those forms
- 9 of financial assurance comply with the requirements
- of Livingston County's wind ordinance?
- 11 A. I do not know what type of credit they specified.
- Q. And finally, page 11 at the bottom
- 14 provides that the terms of the decommissioning plan
- will be binding if there's a change in ownership,
- 16 correct?
- 17 A. That's what it says.
- MR. BLAZER: Mercifully, Mr. Chairman, I'm done.
- 20 CHAIRMAN CORNALE: Thank you. All right.
- 21 For this witness, are there any -- anybody in the
- audience not represented by counsel that may have a
- 23 question of him? All right.
- 24 County staff, any questions? All right.

- 1 A. Are there people who buy larger volumes at
 - 2 lower cost? And there are. And the issue, of
 - 3 course, is where they are. And we're saying for the
 - 4 purposes of what you would do in a project in
 - 5 Livingston County is that you would look at
 - 6 resources in and around this immediate area because
 - 7 there's a cost of getting it to wherever you're
 - 8 going.
 - 9 Q. Okay. This is an engineering question
 - 10 just in general. On a \$15 million project let's
 - 11 say, that's around about where we're at, how common
 - -- as those go to bid, is it common that you might
 - see a million or two dollar -- 1 million or \$2
 - million difference in bids that you receive back on
 - just any project in general?
 - A. Yes.
 - Q. Okay. So there is -- I mean this isn't a precise number. You feel that this is your best
 - cost estimate with the material, with the data that you have available.
 - A. Right, this is a factored cost estimate in trying to come up with -- to be in the right order
 - 23 of magnitude.

Q. Okay.

Page 1257

24

1

2

16

Page 1259

- 1 I have just a few questions.
- 2 OUESTIONS BY
 - CHAIRMAN CORNALE:
- 4 Q. Dig out Pleasant Ridge Exhibit 252 for me.
- 5 Find it.

3

- 6 A. The one about civil engineers?
- 7 Q. Yes. Sixth bullet, tell me what that
- 8 says.
- 9 A. Provide cost estimates for materials,
- 10 equipment or labor to determine a project's economic
- 11 feasibility.
- Q. Okay. In your -- in your best of
- abilities, is that what you've presented to us?
- 14 A. Yes.
- Q. Okay. Would you consider your plan a
- 16 conservative plan?
- 17 A. Yes.
- 18 Q. Okay. There was a big discrepancy with
- scrap price. Do you believe -- do you know or do
- you have any information of a retail versus a
- 21 wholesale scrap market? Does that exist? I don't
- 22 know. I'm used to going to the scrap yard, I get
- \$200 a ton, I go down the street. Is there a
- wholesale market that may have a discrepancy?

- A. And a conservative plan at that.
 - Q. Okay, fair enough.
- 3 CHAIRMAN CORNALE: Any other questions
- 4 from the board? All right, housekeeping. Looks
- 5 like the next meeting will be the 21st at here at
- 6 6:30. Then we'll be on the 22nd at the Walton
- 7 Centre. Moving ahead, the following week we'll have
- 8 meetings on the 26th and the 29th. 26th here; 29th
- 9 at the Walton Centre. They're all at 6:30. So
- there's kind of our plan moving forward. Anything
- else from anybody? Okay.
- **MR. LUETKEHANS:** Mr. Chairman, I just want
- 13 to say thank you to the board for staying longer
- 14 tonight. And I also want to say that we will be
- bringing Rob -- or Jerry Punch to testify at the
- next meeting and then Mr. Gruen at the one after that, just for the record.
- **CHAIRMAN CORNALE:** Okay. Mr. Blazer, you're going to have -- who are you going to have?
- MR. BLAZER: Hankard and Parzyck at the next one.
 - **CHAIRMAN CORNALE:** Okay.
- MR. BLAZER: But I think we want to get
 - Punch done first because he's flying in and flying

```
Page 1260
         out. It's another one of these situations.
  1
                      CHAIRMAN CORNALE: Very good, okay, all
  2
         right. We'll try to get you done before 10:00.
  3
         Okay. With that, we need a motion to recess.
  5
                     MR. VITZTHUM: I'll make that.
                     CHAIRMAN CORNALE: All right, Vitzthum
  6
         motions. Could I get a second? I've got several
         seconds. But Rich, Rich Kiefer seconds. All in
         favor.
 9
                     ALL MEMBERS: Aye.
10
                     CHAIRMAN CORNALE: Opposed. Thank you,
11
         everybody, for sticking it out with us.
12
                     (Adjourned at 9:59 p.m.)
13
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16
17
18
19
20
21
22
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                                                                                             Page 1261
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      STATE OF ILLINOIS
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        COUNTY OF FORD
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      I, June Haeme, a Notary Public in and for the County of Ford, State of Illinois, do hereby certify that the following Livingston County Zoning Board of Appeals Case SU-7-14 hearing was taken at the Pontiac Township High School, 1100 Indiana Avenue, Pontiac, Illinois, on January 14, 2015.

That the said deposition was taken down in stenograph notes and afterwards reduced to
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       That the said deposition was taken down in stenograph notes and afterwards reduced to typewriting under my instruction and that the deposition is a true record of the testimony given.

I do further certify that I am a disinterested person in this cause of action; that I am not a relative, or otherwise interested in the event of this action, and am not in the employ of the attorneys for either party.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed my notarial seal this 20th day of January, 2015.
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                                                JUNE HAEME, CSR
16
                                                NOTARY PUBLIC
17
        "OFFICIAL SEAL"
18
        June Haeme
        Notary Public, State of Illinois
My Commission Expires:
September 27, 2016
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	\$5200 (1)	1114:18,23;1125:1;	address (1)	agricultural (7)
\$	1165:10	1149:12,16;1151:21;	1162:6	1182:16;1214:15,20,
Ψ	\$6.40 (1)	1181:1;1236:22;	addresses (2)	23;1215:5;1216:3;
\$1,000 (1)	1216:21	1248:19;1256:5	1254:10,15	1254:19
1165:10	\$6.5 (1)	accounted (2)	adequate (1)	ahead (7)
\$1,267,000 (1)	1164:15	1117:17;1151:19	1218:1	1102:2;1103:5,23;
1219:24	\$6.55 (1)	accurate (1)	adjacent (1)	1155:4;1218:14;
	1161:14	1158:11	1140:23	1240:3;1259:7
\$10.8 (1)	\$7.5 (1)	accurately (1)	Adjourned (1)	airports (1)
1197:1	1183:21	1187:13	1260:13	1200:8
\$100 (1)	\$8.5 (1)	achieve (2)	adjustment (3)	Allied (2)
1229:10	1168:23	1180:13,23	1115:11,13,14	1160:24;1220:15
\$14 (1)	\$850,000 (3)	acknowledges (1)	administrator (1)	allow (3)
1164:17	1217:19,24;1218:21	1198:7	1255:20	1167:18;1197:12;
\$14.8 (1)	\$87,000 (1)	acknowledgment (1)	admit (1)	1237:11
1164:15	1197:2	1124:5	1194:20	
\$15 (1)	1197:2			allowed (1) 1233:18
1258:10	A	acoustical (1)	adopt (1)	
\$15,818 (1)	A	1192:2	1238:17	allowing (1)
1224:4		acoustician (2)	aesthetics (1)	1136:14
\$1900 (1)	abandoned (3)	1191:24;1192:2	1180:12	almost (5)
1239:22	1162:23;1179:24,24	acre (3)	affect (3)	1104:3;1154:6;
\$2 (1)	abilities (1)	1104:8,12;1106:4	1115:20;1147:13;	1210:13;1242:9,10
1258:13	1257:13	acres (2)	1149:1	alone (1)
\$2,500 (1)	ability (2)	1120:5,6	affected (7)	1168:16
1196:19	1172:16;1173:19	across (4)	1123:24;1132:20;	along (4)
\$20 (2)	able (23)	1126:2;1230:17;	1137:2;1139:10;	1106:1;1140:17;
1161:10,13	1103:18;1139:12;	1233:3;1253:3	1140:6;1141:2;1148:8	1145:2;1180:16
\$200 (2)	1140:10;1160:9;	Act (2)	affects (3)	Alter (1)
1165:3;1257:23	1164:8;1166:7;1171:4,	1221:4;1222:24	1127:3;1148:20,24	1160:22
\$201,000 (2)	21;1173:9,14,15;	actual (9)	afterwards (1)	Although (1)
1227:11;1228:3	1175:19;1181:14;	1105:7;1119:20;	1114:21	1148:16
\$22.8 (1)	1182:20;1198:17;	1125:6;1126:6,17;	again (21)	America's (1)
1181:16	1209:22;1215:23;	1131:6;1206:22;	1109:21;1110:16,22;	1252:22
\$224,000 (1)	1217:1;1218:8;	1210:6;1224:9	1111:13,15;1115:12;	among (1)
	1220:20;1235:11;	actually (28)	1116:22;1123:16;	1251:19
1240:10	1246:17;1250:4	1106:9;1108:3;	1134:6;1143:15,15;	Amongst (1)
\$25,000 (1)	above (1)	1109:14;1126:6;	1146:9;1151:14;	1135:24
1196:21	1109:4	1130:1;1143:6;	1154:23;1156:15;	amortize (1)
\$3,000 (1)	academic (1)	1155:17;1156:6;	1197:16;1203:6;	1250:2
1228:23	1136:4	1176:6;1190:16;	1207:15;1232:15;	amount (9)
\$3,221,478 (1)	accelerated (1)	1191:7;1194:12;	1233:16;1246:5	1179:20;1181:13;
1216:17	1250:5	1191.7,1194.12,	age (1)	1182:24;1197:1;
\$3.74(1)			1116:9	1211:17;1226:9,12;
1216:22	accept (5)	1198:12;1205:24;		
\$30,000 (1)	1197:5;1207:6,7,10,	1206:20;1207:3;	agencies (1)	1252:3;1255:24
1134:17	13	1210:23;1211:24;	1158:20	amounts (2)
\$300,000 (1)	acceptable (1)	1226:1;1227:6;1230:8;	aggregate (2)	1172:14;1198:15
1219:11	1237:17	1231:10;1236:20;	1184:3;1219:12	analysis (22)
\$36 (1)	accepted (1)	1245:16;1254:7;	ago (2)	1115:21;1116:7,23;
1168:4	1198:24	1255:4	1178:20;1238:6	1125:23;1134:9,18;
\$370 (1)	accepting (1)	add (13)	agree (15)	1157:12,18,19;
1165:4	1213:18	1103:11;1130:22,23,	1127:7,14;1144:13;	1159:22;1160:2;
\$4 (1)	access (19)	24;1131:2,15,19;	1200:13,17;1224:6;	1161:6,7;1163:14;
1168:16	1141:10;1146:4;	1149:7;1183:2;	1227:6;1229:21;	1186:8;1187:21;
\$40,000 (1)	1172:2,4;1182:1,2,15,	1227:10,14;1228:6;	1237:6,7;1242:18,19,	1191:17;1192:17;
1241:19	17;1213:1,3;1214:3,	1239:6	20;1243:17;1252:7	1199:10;1207:11;
\$44 (2)	14;1217:15,18,20;	added (3)	agreement (8)	1224:18;1231:15
1167:21;1168:3	1218:21;1219:12;	1103:16;1211:19;	1249:3,17;1250:22,	anniversary (1)
\$450,000 (1)	1221:13;1222:1	1241:13	24;1251:12;1252:2,5;	1175:12
1134:16	accompanying (1)	adding (1)	1254:19	announced (2)
\$5 (2)	1223:1	1172:12	agreements (9)	1130:9;1144:10
1163:19;1175:24	according (3)	additional (4)	1175:16,20;1249:11,	announcement (1)
,	1220:3,3;1225:20	1155:13;1156:7;	19;1250:7.11;1251:14.	1102:23
\$500,000 (1) 1204:22	1220:3,3;1225:20 account (10)	1155:13;1156:7; 1250:13;1251:4	19;1250:7,11;1251:14, 18,21	1102:23 answered (4)

1146:9;1215:3,15;	arc (1)	1245:6	1260:10	bedrooms (2)
1231:19	1235:17	assumption (8)	D	1132:8,9
anticipated (1)	area (15)	1165:4;1177:23,23;	В	Beech (5)
1127:12	1107:6;1122:8,12;	1179:10;1181:19;		1194:15,18;1195:23;
anticipation (1)	1125:24;1136:23;	1209:19;1214:21;	B1 (1)	1196:14;1198:14
1130:7	1137:2;1139:6;	1244:2	1225:13	begin (3)
anymore (2)	1141:19;1142:4;	assumptions (1)	B10W (1)	1120:3,11;1162:12
1173:7,8	1164:24;1165:1;	1105:24	1213:17	behalf (7)
apologize (4)	1182:7;1214:14;	assurance (9)	B5 (3)	1156:5;1185:9;
1115:23;1217:9;	1217:12;1258:6	1170:21;1175:5;	1213:7;1216:16;	1186:15,20;1189:8;
1231:20;1239:7	areas (8)	1198:15,18;1245:11;	1219:19	1194:15;1238:5
Appeals (1)	1107:2,12,24;	1255:15,23;1256:3,9	back (30)	bell (1)
1102:7	1108:4;1214:19,23;	assurances (1)	1105:22;1106:1,5;	1247:23
appears (2)	1215:4;1216:3	1175:9	1107:2;1129:2;1144:8;	below (3)
1174:12;1199:3	argument (2)	asynchronous (6)	1154:22;1155:10,13,	1153:20;1218:24;
appendices (1)	1243:14;1245:6	1209:8;1240:15,19;	24;1170:3,11;1186:23;	1254:11 Port (1)
1107:4 Appendix (4)	around (8) 1107:5;1114:9;	1243:2,22;1244:1 attached (1)	1188:24;1190:20;	Ben (1) 1191:20
1107:3;1148:18;	1154:15;1161:11;	1206:18	1191:3;1196:2;1199:6, 24;1217:16;1219:18,	benefit (1)
1153:3;1180:17	1167:21;1222:12;			1187:2
applicant (6)	1258:6,11	attempt (2) 1125:17;1126:3	19;1223:22;1227:14; 1228:6;1236:19;	Benton (1)
1155:8;1156:10,14;	articles (2)	attraction (1)	1242:8;1254:4;1255:4;	1108:13
1180:6;1184:13;	1106:12;1111:23	1147:17	1242.8,1234.4,1233.4,	Berkeley (1)
1238:10	aside (1)	attribute (1)	backfill (2)	1111:18
applicants (1)	1179:21	1143:6	1214:3;1215:23	best (7)
1194:3	aspect (1)	audience (9)	background (5)	1126:5;1165:1,1;
application (4)	1153:11	1113:19,21;1124:14;	1157:14;1187:10,14;	1173:11;1234:5;
1175:7,15;1224:23;	Asphalt (1)	1137:1;1155:16;	1193:22;1200:16	1257:12;1258:18
1250:15	1161:1	1156:13;1163:10;	backhoe (1)	bet (1)
applies (1)	assert (3)	1216:13;1256:22	1216:5	1216:11
1103:20	1205:22;1206:4,8	August (1)	bad (1)	better (5)
apply (1)	assessor's (2)	1175:6	1177:23	1134:2;1162:17;
1148:3	1126:17,23	authored (2)	bag (1)	1163:11;1173:15;
applying (1)	assets (2)	1202:1,5	1173:23	1244:1
1136:14	1171:3;1174:18	authors (1)	base (2)	beyond (2)
appraiser (4)	assign (2)	1127:22	1124:3;1182:3	1152:23;1171:18
1131:13,14;1191:15,	1149:13;1173:13	auto (1)	based (18)	biased (1)
16	assigning (1)	1232:12	1115:8;1118:4,18,	1124:3
appreciate (1)	1119:5	Automatically (1)	21;1165:4;1177:14;	bid (7)
1188:12	associate (2)	1251:4	1196:20;1206:12;	1169:11,21;1210:22;
approaching (1)	1187:15;1192:17	availability (2)	1212:21,23;1217:2;	1232:5,11;1238:3;
1169:14	associated (5)	1128:23;1129:3	1220:4;1225:20;	1258:12
appropriate (2)	1126:18;1163:16;	available (11)	1235:14,19;1243:4;	bids (1)
1137:6;1200:18	1165:18;1168:7;	1126:1,2,9,16;	1248:15,17	1258:14
approval (1)	1181:20	1128:18,18;1129:1;	basement (1)	Big (13)
1193:2	assume (16)	1149:18;1155:19;	1149:5	1108:20,20,21;
approvals (1)	1106:11;1110:13;	1170:21;1258:20	basic (1)	1109:3,6,7;1122:14;
1195:16	1142:8;1159:12;	average (8)	1153:9	1160:13;1168:15;
approve (1)	1165:22;1168:14;	1119:9;1133:5,8,10,	basically (4)	1183:24;1222:17;
1241:5 approved (4)	1211:20;1216:6;	11;1134:15;1167:4,6	1118:11;1124:4;	1228:13;1257:18
• •	1223:2;1232:7;1233:4;	averages (1)	1149:13;1155:7	bigger (2)
1192:7;1195:17;	1235:3,19;1245:14; 1252:1;1253:12	1135:20	basis (5)	1124:7;1136:11
1241:3,11 approving (1)	assumed (6)	aware (12) 1112:6,9;1182:14;	1130:15;1162:8; 1168:3;1229:17,19	bills (1) 1134:23
1195:23	1208:19;1223:11;	1193:6;1214:22;	bathroom (7)	binding (1)
approximately (10)	1208.19,1223.11, 1227:1;1229:10;	1215:4;1221:7;1225:9;	1133:21;1149:22,24;	1256:15
1114:17;1119:21;	1234:16;1243:9	1241:2;1252:21;	1150:2,9,21;1152:8	biologist (1)
1121:6,6;1159:16;	Assumes (1)	1241.2,1232.21,	beaching (3)	1192:4
1219:24;1236:13;	1221:16	away (7)	1216:22;1217:2,12	biomass (1)
1239:22;1240:10;	assuming (8)	1130:24;1134:2;	bear (1)	1187:21
1253:7	1181:8;1210:24;	1138:20;1174:7,8,9;	1222:14	bit (8)
arbitrary (1)	1211:6,23;1218:7;	1216:1	becoming (1)	1108:9;1114:9;
1139:3	1219:22;1229:17;	Aye (1)	1182:7	1115:15;1117:13;
	, ,	• ` '		,,

-	T	1	1	,
1134:21;1183:3;	1108:23	1220:20;1258:1	1175:18	1127:10;1131:6;
1185:3;1190:19	Brick (1)	buyer (1)	capacity (3)	1132:4,4;1144:17
blah (3)	1161:2	1126:20	1187:22;1252:9;	CHAIRMAN (46)
1141:10,10,10	bridges (1)	buys (1)	1253:7	1102:2,11;1103:9,
BLAKEMAN (1)	1200:8	1249:7	capital (1)	14;1113:8,13,17;
1103:12	brief (1)		1249:21	1124:13;1128:8;
blank (1)	1114:7	C	capture (2)	1146:20,23;1147:3,7;
1112:17	briefly (3)		1139:13,14	1154:20;1155:4;
Blazer (33)	1129:6;1182:13;	cabling (1)	car (1)	1156:1,24;1157:4;
1107:18,20;1155:17;	1203:18	1254:11	1153:21	1163:6;1176:21;
1184:15,18;1187:2;	bring (4)	calculate (2)	Cardinal (1)	1184:8,15,16;1192:11;
1192:23;1197:8,22;	1155:23;1156:9;	1253:20;1254:1	1160:22	1197:12;1207:5,17,22;
1207:17,20;1208:7,9;	1168:8;1215:22	calculation (2)	care (1)	1215:19;1222:6,10,20;
1215:15;1217:8;	bringing (1)	1229:14,16	1170:5	1233:23;1234:6;
1221:18,19,22,24;	1259:15	California (8)	career (1)	1238:23;1239:7;
1222:6,8,11,15,19,21;	brings (1)	1128:24;1134:11,12;	1199:9	1256:18,20;1257:3;
1233:20;1234:7;	1156:16	1170:13,15,18;	careful (2)	1259:3,12,18,22;
1239:7,8;1256:18;	broad (1)	1179:15,23	1141:3;1143:2	1260:2,6,11
1259:18,20,23	1114:11	call (8)	carefully (1)	chance (2)
Bloomington (1)	broader (1)	1102:3,4;1130:4;	1171:23	1104:9;1162:1
1104:11	1245:23	1138:8;1151:16,17;	Carter (1)	change (10)
blow (2) 1215:24;1228:14	broker (1) 1233:8	1199:13;1239:5	1112:18 Case (22)	1123:4,9;1141:11;
		called (5)		1148:5;1154:16;
blowup (3) 1207:15,16;1226:16	brokering (1) 1233:6	1116:18;1158:7;	1102:8;1105:8; 1123:19;1134:1,2,24;	1160:16;1169:5; 1179:8;1240:16;
1207:15,16;1226:16 blowups (2)	1233:0 Brothers (1)	1167:13;1232:17; 1238:11	1123:19;1134:1,2,24; 1136:6;1160:17;	1179:8;1240:16; 1256:15
1207:3,19	1161:1	1238:11 calling (3)	1130:0;1100:17;	changed (2)
Board (20)	brought (1)	1184:5;1209:8;	1171:14;1172:3;	1103:12;1154:13
1102:7;1113:18;	1172:9	1220:11	1171.14,1172.3, 1174:11;1175:2;	changes (1)
1124:18;1146:20;	bubble (1)	came (15)	1174.11,1173.2, 1181:12;1183:15;	1179:7
1162:5;1166:21;	1114:20	1147:12;1161:8,9,	1195:9;1238:10;	changing (1)
1170:8;1176:21;	Buckman (1)	12;1165:14;1166:11;	1246:23;1250:11,15;	1155:6
1177:10;1184:9;	1160:22	1167:20;1169:5;	1240.23,1230.11,13,	characteristic (4)
1192:6,21;1193:2;	Buena (1)	1209:16;1211:11,14;	cases (5)	1125:9;1133:24;
1241:3,10,19;1243:17,	1109:19	1212:2,18;1228:24;	1115:4,4,12;	1134:4;1149:16
19;1259:4,13	build (4)	1230:17	1170:24;1251:17	characteristics (13)
Boldt (1)	1146:6;1179:4;	can (49)	cash (1)	1116:8;1121:24;
1230:19	1210:24;1232:6	1102:3;1108:11;	1256:5	1122:3;1125:8;
B-O-L-D-T (1)	building (3)	1113:23;1115:15;	census (13)	1126:18,22;1130:24;
1230:20	1172:3;1231:10;	1116:16;1121:20;	1115:14;1116:16,19,	1131:1,5,6;1135:8;
bond (5)	1249:20	1122:13,21,24;	20,21;1117:1,2,3,9,10,	1152:21;1163:4
1173:17,18,20;	buildings (1)	1123:14;1127:7;	14;1132:7,7	characterized (2)
1174:3;1179:21	1200:8	1128:9;1134:9;1139:9;	central (4)	1134:7;1250:16
both (10)	built (6)	1145:6;1146:2;1147:3;	1116:11;1122:1;	charge (2)
1109:16;1117:18;	1141:15;1193:7;	1149:13,16;1154:22;	1134:20;1141:8	1166:13;1184:6
1118:6;1154:13;	1203:23;1248:23;	1157:13;1160:16;	Centre (5)	Charleston (1)
1155:8;1169:4;	1249:23;1253:2	1161:23;1165:17;	1103:4,6,8;1259:7,9	1207:9
1181:18;1194:24;	bulk (1)	1172:13;1177:24;	certain (8)	chart (2)
1198:14;1206:2	1126:10	1178:3;1179:14;	1111:22;1112:4;	1110:20;1140:12
bottom (4)	bullet (1)	1187:6;1189:20;	1115:18;1128:21;	check (4)
1218:20;1219:7,10;	1257:7	1190:2;1196:16;	1137:20;1160:10;	1146:1;1166:4;
1256:13	bunch (4)	1197:14;1208:7,8,23;	1162:22;1163:22	1223:6;1240:2
bounce (1)	1131:24;1142:15;	1211:3;1219:8;1221:8;	certainly (5)	checked (2)
1123:18	1170:16;1220:18	1222:7,14;1228:18;	1137:22;1138:21;	1166:1;1167:11
bound (1)	Bureau (2)	1229:21;1233:17;	1139:9;1140:22;	choose (1)
1136:5	1200:4;1241:7	1234:3;1236:23;	1244:12	1128:24
Brad (1)	business (4)	1237:6;1239:15;	certified (1)	chose (1)
1114:2	1122:1;1141:8;	1241:1	1255:5	1120:13
break (1)	1233:5;1252:14	Canada (2)	cetera (18)	chosen (2)
1154:22	businesses (1)	1144:16;1253:3	1106:4;1117:4;	1128:22;1206:9
breakdown (1)	1116:11	candidly (1)	1118:5,6,22;1119:16;	Chuck (1)
1207:13 brooking (1)	buy (4) 1160:15;1161:4;	1187:5	1120:23,23;1123:3,10,	1102:3
breaking (1)	1100.15,1101.4;	capability (1)	10;1125:21;1126:20;	circumstances (1)

				• /
1115:18	comment (2)	complete (1)	1141:5;1142:5	1102:2,10,11;
cite (1)	1148:13;1219:8	1196:9	construct (1)	1103:9,14;1113:8,13,
1113:2	commercial (2)	completing (1)	1200:6	17;1124:13;1128:8;
citizens (2)	1202:11;1229:23	1212:24	constructed (2)	1146:20,23;1147:3,7;
1159:7,10	Commission (8)	complies (1)	1179:16;1214:15	1154:20;1155:4;
civil (10)	1195:15,17,23;	1242:5	construction (25)	1156:1,24;1157:4;
1157:15;1199:5;	1197:5;1198:7,17,24;	comply (1)	1166:2,4,10,11;	1163:6;1176:21;
1200:4,5,12,14,18;	1207:9	1256:9	1167:14;1168:19;	1184:8,16;1192:11;
1202:12;1207:7;	commissions (2)	components (1)	1169:11;1173:12;	1197:12;1207:5;
1257:6	1158:18;1159:6	1180:21	1188:8,14,17;1200:7;	1215:19;1222:6,10,20;
claim (1)	Commission's (2)	concerned (3)	1203:21;1207:14;	1233:23;1234:6;
1245:18	1198:1,12	1122:13;1162:14;	1211:6;1220:22;	1238:23;1256:20;
clarification (1)	committee (1)	1170:8	1221:3;1224:10,12;	1257:3;1259:3,18,22;
1202:8	1158:21	concerning (1)	1225:3,4;1230:9,19;	1260:2,6,11
clean (5)	committees (1)	1180:7	1231:3;1239:3	corner (2)
1220:22;1221:2,8;	1158:19	concerns (1)	consultant (2)	1208:6;1241:13
1223:7;1238:24	commodity (1)	1147:11	1195:12;1196:18	corners (1)
cleanup (1)	1235:4	concluded (1)	consultants (1)	1145:11
1217:10	common (6)	1173:4	1124:16	corporation (4)
clear (6)	1152:2;1160:7;	conclusions (1)	consulting (2)	1171:2;1174:19;
1112:16;1113:16;	1178:19;1216:9;	1106:13	1199:18,22	1230:16,18
1147:21;1201:21;	1258:11,12	concrete (5)	contact (5)	corporations (1)
1224:15;1237:8	commonly (1)	1160:24;1167:5;	1181:8;1231:7,9,21,	1171:1
clearly (1)	1166:24	1220:9,18;1224:19	22	correctly (10)
1108:7	communities (2)	condition (3)	contacted (9)	1124:8,9;1173:2;
clients (4)	1170:19;1171:6	1172:1;1191:18;	1161:3;1164:23;	1180:18;1193:23;
1156:6;1185:9,11;	community (1)	1217:21	1185:10;1186:2;	1194:9;1198:13,19;
1186:16	1163:2	conditions (1)	1220:7,15,18;1231:8;	1200:10;1225:6
close (6)	compact (2)	1171:22	1233:12	correlations (1)
1121:14,15;1141:6,	1214:11;1215:24	confident (1)	content (1)	1123:2
8;1143:5;1147:4	compacting (1)	1145:10	1242:20	cost (49)
closer (2)	1216:3	confirm (2)	context (2)	1130:15;1160:16;
1163:7;1168:4	compaction (6)	1199:2;1246:17	1200:15;1205:17	1161:10,14,18;
coal-fired (1)	1214:2,10,11,24;	confirmed (1)	continuation (1)	1163:16,17,19,24;
1176:16	1215:6,12	1247:12	1102:6	1164:3,8;1167:22;
coefficient (5)	companies (14)	conflicts (1)	continue (2)	1173:5;1175:10,14;
1134:14;1137:17;	1161:1,3;1169:13;	1103:1	1103:9,23	1180:20;1181:2,6,15,
1139:19;1154:3,10	1182:8;1201:17;	confused (1)	continued (2)	15;1194:14;1195:5;
collate (1)	1202:14;1220:9,19;	1132:23	1178:17;1215:16	1205:23;1209:16;
1222:16	1230:5,8;1231:8;	confusing (1)	continuing (3)	1214:2;1217:4;
collectively (1)	1232:1,4;1233:5	1131:22	1114:22;1246:16,21	1219:24;1224:5;
1251:20	company (19)	congressional (1)	contract (1)	1227:18,20;1228:7,9;
college (1)	1167:11,13;1169:11;	1158:21	1182:8	1230:18;1231:11;
1188:11	1174:17,17;1177:20;	conservative (2)	contractor (1)	1235:17,18;1236:21;
column (2)	1179:20;1181:11;	1257:16;1259:1	1231:23	1240:5;1244:11;
1134:8;1240:4	1201:24;1202:4,6;	consider (8)	contractors (1)	1245:15;1249:20,22;
columns (3)	1205:8;1210:19;	1118:13;1171:23;	1230:22	1255:2,24;1257:9;
1153:6,20;1219:22	1231:9;1238:11;	1174:2;1177:10;	contracts (1)	1258:2,7,19,21
Combination (1)	1245:7;1252:18,23;	1178:24;1179:19;	1230:15	costs (24)
1216:19	1254:3	1180:12;1257:15	contradicted (1)	1159:9,9,14,20,22;
combined (1)	company's (2)	consideration (8)	1144:18	1164:4,6;1166:4;
1219:12	1187:11;1225:3	1116:3,15;1118:8;	control (7)	1168:16,19;1170:2;
combines (1)	comparable (2)	1125:4,16,18;1153:10,	1121:12,15,17,18,20,	1172:22;1175:20;
1116:20	1138:6;1150:22	15	21;1122:18	1176:15;1177:14;
comfortable (1)	compare (3)	considered (4)	conversations (1)	1183:9;1193:20;
1128:3	1139:17;1153:21;	1116:13;1121:12;	1220:5	1201:18;1203:5;
coming (3)	1163:14	1146:8;1180:20	copper (4)	1205:1,3;1225:4;
1155:10;1171:13;	Compared (2)	consistent (2)	1165:7,9,14;1233:10	1235:1;1250:3
1175:5	1163:20;1164:1	1127:23;1130:6	copy (1)	counsel (4)
Comm (1)	comparing (1)	consists (1)	1158:11	1103:10;1113:21;
1249:4	1126:11	1177:9	copyright (1)	1156:4;1256:22
Commencing (1)	compensated (1)	constant (4)	1111:20	Counties (10)
1102:1	1112:12	1115:2;1133:13;	CORNALE (41)	1108:14;1111:6;
		,,,-,	(-1)	,,
Min-II-Scrint®		e Renorting and Video Co		(4) cite - Counties

1115:24;1116:1;	1217:3	1208:5	14,16;1208:14,19;	1125:5;1131:3,24
1120:12;1128:21;	criteria (1)	day (2)	1209:9,12,16;1210:19;	depending (3)
1129:13,15;1130:2;	1105:13	1105:17;1162:2	1224:5,14;1225:5;	1150:7;1244:6,23
1241:7	critical (3)	days (13)	1229:22;1230:5,18;	depends (3)
		1104:10;1125:2,4,8,		
country (3)	1136:17;1137:7;		1231:11,12;1232:5;	1137:16;1220:24;
1117:8,12;1245:22	1145:20	16,18,19,21,22;1126:6,	1234:24;1236:20,21;	1245:12
County (58)	criticize (1)	19;1175:11,12	1238:15,17;1239:10;	deposition (1)
1102:6,7;1108:5,5,6,	1219:15	deal (1)	1240:16,20;1241:20,	1197:17
18;1109:12,19,24;	critiques (1)	1232:15	23;1242:9,21;1243:1,	depreciation (1)
1110:13,20;1111:2,12;	1187:24	dealing (4)	22;1244:1;1245:15;	1250:5
1115:11,13;1124:16;	crop (1)	1128:4;1159:20;	1246:7,20;1254:4;	depth (1)
1126:17,23;1128:12,	1183:3	1171:1;1221:1	1255:2,12,15,24;	1182:23
13;1129:4,17,17,19,21;	crops (3)	deals (1)	1256:14	derived (1)
1141:16;1160:23;	1182:17;1183:1;	1185:24	decompacted (2)	1212:13
1161:1;1163:5;	1216:15	dealt (3)	1215:7,21	describe (1)
1169:24;1171:21;	cubic (7)	1203:4;1230:16;	decompaction (2)	1200:24
1174:8,10,21;1175:2;	1167:5;1213:9,13,	1231:3	1214:24;1215:5	described (1)
1180:14;1189:10;	14,15,18;1214:7	debris (4)	deconstructed (1)	1209:11
1190:1;1192:6,19,21,	current (3)	1220:23;1221:3;	1179:17	describes (1)
21;1193:2;1220:16;	1158:12;1160:20;	1239:4;1254:10	deconstruction (4)	1242:20
1238:8,13;1241:2,4,5,	1182:1	debt (1)	1224:9,10;1229:22;	description (3)
10,19;1243:15,17,19;	currently (4)	1248:23	1230:6	1107:6;1125:14;
1254:20;1256:5,24;	1157:20;1159:2;	decides (2)	decrease (1)	1244:2
1258:5	1176:16;1253:6	1177:20;1245:7	1161:18	design (6)
county's (4)	Custer (2)	deciding (1)	deduction (2)	1178:24;1179:8;
1172:17;1241:23;	1108:5;1109:11	1133:15	1227:11;1228:2	1188:16;1200:5;
1242:3;1256:10	cut (3)	decision (3)	deenergize (1)	1224:17,19
couple (13)	1120:16;1166:15;	1198:12;1243:20;	1229:4	designed (3)
1104:10;1112:11;	1181:9	1244:4		1179:5;1188:23;
			deenergizing (1)	
1115:22;1124:21;	cycle (1)	decisions (2)	1229:17	1225:1
1147:1;1166:18;	1243:9	1105:24;1106:3	deep (1)	designing (3)
1176:12;1189:3;	_	declined (1)	1213:12	1188:8,14,21
1194:1;1199:4;	D	1114:21	define (1)	detail (1)
1194:1;1199:4; 1203:20;1207:3;	D	decom (1)	define (1) 1221:8	detail (1) 1213:6
1203:20;1207:3;		decom (1)	1221:8	1213:6
1203:20;1207:3; 1238:6	dams (1)	decom (1) 1246:6	1221:8 defined (2)	1213:6 determine (6)
1203:20;1207:3; 1238:6 course (1)	dams (1) 1200:8	decom (1) 1246:6 decommission (11)	1221:8 defined (2) 1244:7,23	1213:6 determine (6) 1115:17;1118:10;
1203:20;1207:3; 1238:6 course (1) 1258:3	dams (1) 1200:8 danger (1)	decom (1) 1246:6 decommission (11) 1169:15;1176:17;	1221:8 defined (2) 1244:7,23 definite (1)	1213:6 determine (6) 1115:17;1118:10; 1121:9;1179:19;
1203:20;1207:3; 1238:6 course (1) 1258:3 court (3)	dams (1) 1200:8 danger (1) 1152:9	decom (1) 1246:6 decommission (11) 1169:15;1176:17; 1179:21;1180:1;	1221:8 defined (2) 1244:7,23 definite (1) 1165:16	1213:6 determine (6) 1115:17;1118:10; 1121:9;1179:19; 1242:4;1257:10
1203:20;1207:3; 1238:6 course (1) 1258:3 court (3) 1139:4;1157:5;	dams (1) 1200:8 danger (1) 1152:9 dangerous (1)	decom (1) 1246:6 decommission (11) 1169:15;1176:17; 1179:21;1180:1; 1205:2;1210:14;	1221:8 defined (2) 1244:7,23 definite (1) 1165:16 definitely (2)	1213:6 determine (6) 1115:17;1118:10; 1121:9;1179:19; 1242:4;1257:10 determined (2)
1203:20;1207:3; 1238:6 course (1) 1258:3 court (3) 1139:4;1157:5; 1197:18	dams (1) 1200:8 danger (1) 1152:9 dangerous (1) 1150:17	decom (1) 1246:6 decommission (11) 1169:15;1176:17; 1179:21;1180:1; 1205:2;1210:14; 1212:12,17;1240:5;	1221:8 defined (2) 1244:7,23 definite (1) 1165:16 definitely (2) 1143:4;1237:10	1213:6 determine (6) 1115:17;1118:10; 1121:9;1179:19; 1242:4;1257:10 determined (2) 1211:17;1255:20
1203:20;1207:3; 1238:6 course (1) 1258:3 court (3) 1139:4;1157:5; 1197:18 courts (2)	dams (1) 1200:8 danger (1) 1152:9 dangerous (1) 1150:17 data (41)	decom (1) 1246:6 decommission (11) 1169:15;1176:17; 1179:21;1180:1; 1205:2;1210:14; 1212:12,17;1240:5; 1244:4;1245:7	1221:8 defined (2) 1244:7,23 definite (1) 1165:16 definitely (2) 1143:4;1237:10 definition (4)	1213:6 determine (6) 1115:17;1118:10; 1121:9;1179:19; 1242:4;1257:10 determined (2) 1211:17;1255:20 detrimental (1)
1203:20;1207:3; 1238:6 course (1) 1258:3 court (3) 1139:4;1157:5; 1197:18 courts (2) 1158:18,19	dams (1) 1200:8 danger (1) 1152:9 dangerous (1) 1150:17 data (41) 1111:17,20,21;	decom (1) 1246:6 decommission (11) 1169:15;1176:17; 1179:21;1180:1; 1205:2;1210:14; 1212:12,17;1240:5; 1244:4;1245:7 decommissioned (12)	1221:8 defined (2) 1244:7,23 definite (1) 1165:16 definitely (2) 1143:4;1237:10 definition (4) 1200:2,4,13,18	1213:6 determine (6) 1115:17;1118:10; 1121:9;1179:19; 1242:4;1257:10 determined (2) 1211:17;1255:20 detrimental (1) 1191:18
1203:20;1207:3; 1238:6 course (1) 1258:3 court (3) 1139:4;1157:5; 1197:18 courts (2)	dams (1) 1200:8 danger (1) 1152:9 dangerous (1) 1150:17 data (41) 1111:17,20,21; 1112:1;1115:8;	decom (1) 1246:6 decommission (11) 1169:15;1176:17; 1179:21;1180:1; 1205:2;1210:14; 1212:12,17;1240:5; 1244:4;1245:7 decommissioned (12) 1170:7;1178:4;	1221:8 defined (2) 1244:7,23 definite (1) 1165:16 definitely (2) 1143:4;1237:10 definition (4)	1213:6 determine (6) 1115:17;1118:10; 1121:9;1179:19; 1242:4;1257:10 determined (2) 1211:17;1255:20 detrimental (1)
1203:20;1207:3; 1238:6 course (1) 1258:3 court (3) 1139:4;1157:5; 1197:18 courts (2) 1158:18,19	dams (1) 1200:8 danger (1) 1152:9 dangerous (1) 1150:17 data (41) 1111:17,20,21;	decom (1) 1246:6 decommission (11) 1169:15;1176:17; 1179:21;1180:1; 1205:2;1210:14; 1212:12,17;1240:5; 1244:4;1245:7 decommissioned (12)	1221:8 defined (2) 1244:7,23 definite (1) 1165:16 definitely (2) 1143:4;1237:10 definition (4) 1200:2,4,13,18	1213:6 determine (6) 1115:17;1118:10; 1121:9;1179:19; 1242:4;1257:10 determined (2) 1211:17;1255:20 detrimental (1) 1191:18
1203:20;1207:3; 1238:6 course (1) 1258:3 court (3) 1139:4;1157:5; 1197:18 courts (2) 1158:18,19 cover (1) 1245:15	dams (1) 1200:8 danger (1) 1152:9 dangerous (1) 1150:17 data (41) 1111:17,20,21; 1112:1;1115:8; 1116:17;1117:2,3,9;	decom (1) 1246:6 decommission (11) 1169:15;1176:17; 1179:21;1180:1; 1205:2;1210:14; 1212:12,17;1240:5; 1244:4;1245:7 decommissioned (12) 1170:7;1178:4; 1180:8;1214:18;	1221:8 defined (2) 1244:7,23 definite (1) 1165:16 definitely (2) 1143:4;1237:10 definition (4) 1200:2,4,13,18 deflating (1) 1115:4	1213:6 determine (6) 1115:17;1118:10; 1121:9;1179:19; 1242:4;1257:10 determined (2) 1211:17;1255:20 detrimental (1) 1191:18 devalue (1) 1145:1
1203:20;1207:3; 1238:6 course (1) 1258:3 court (3) 1139:4;1157:5; 1197:18 courts (2) 1158:18,19 cover (1) 1245:15 covered (2)	dams (1) 1200:8 danger (1) 1152:9 dangerous (1) 1150:17 data (41) 1111:17,20,21; 1112:1;1115:8; 1116:17;1117:2,3,9; 1121:22;1122:2,3,14;	decom (1) 1246:6 decommission (11) 1169:15;1176:17; 1179:21;1180:1; 1205:2;1210:14; 1212:12,17;1240:5; 1244:4;1245:7 decommissioned (12) 1170:7;1178:4; 1180:8;1214:18; 1225:11;1244:14,17,	1221:8 defined (2) 1244:7,23 definite (1) 1165:16 definitely (2) 1143:4;1237:10 definition (4) 1200:2,4,13,18 deflating (1) 1115:4 degree (4)	1213:6 determine (6) 1115:17;1118:10; 1121:9;1179:19; 1242:4;1257:10 determined (2) 1211:17;1255:20 detrimental (1) 1191:18 devalue (1) 1145:1 devalued (1)
1203:20;1207:3; 1238:6 course (1) 1258:3 court (3) 1139:4;1157:5; 1197:18 courts (2) 1158:18,19 cover (1) 1245:15 covered (2) 1120:1;1241:6	dams (1) 1200:8 danger (1) 1152:9 dangerous (1) 1150:17 data (41) 1111:17,20,21; 1112:1;1115:8; 1116:17;1117:2,3,9; 1121:22;1122:2,3,14; 1125:22;1128:2,4,18,	decom (1) 1246:6 decommission (11) 1169:15;1176:17; 1179:21;1180:1; 1205:2;1210:14; 1212:12,17;1240:5; 1244:4;1245:7 decommissioned (12) 1170:7;1178:4; 1180:8;1214:18; 1225:11;1244:14,17, 18;1246:1,11,12,14	1221:8 defined (2) 1244:7,23 definite (1) 1165:16 definitely (2) 1143:4;1237:10 definition (4) 1200:2,4,13,18 deflating (1) 1115:4 degree (4) 1157:15;1188:11;	1213:6 determine (6) 1115:17;1118:10; 1121:9;1179:19; 1242:4;1257:10 determined (2) 1211:17;1255:20 detrimental (1) 1191:18 devalue (1) 1145:1 devalued (1) 1142:9
1203:20;1207:3; 1238:6 course (1) 1258:3 court (3) 1139:4;1157:5; 1197:18 courts (2) 1158:18,19 cover (1) 1245:15 covered (2) 1120:1;1241:6 crane (8)	dams (1) 1200:8 danger (1) 1152:9 dangerous (1) 1150:17 data (41) 1111:17,20,21; 1112:1;1115:8; 1116:17;1117:2,3,9; 1121:22;1122:2,3,14; 1125:22;1128:2,4,18, 23;1129:1,3,8,13,13,	decom (1) 1246:6 decommission (11) 1169:15;1176:17; 1179:21;1180:1; 1205:2;1210:14; 1212:12,17;1240:5; 1244:4;1245:7 decommissioned (12) 1170:7;1178:4; 1180:8;1214:18; 1225:11;1244:14,17, 18;1246:1,11,12,14 Decommissioning (106)	1221:8 defined (2) 1244:7,23 definite (1) 1165:16 definitely (2) 1143:4;1237:10 definition (4) 1200:2,4,13,18 deflating (1) 1115:4 degree (4) 1157:15;1188:11; 1199:5,24	1213:6 determine (6) 1115:17;1118:10; 1121:9;1179:19; 1242:4;1257:10 determined (2) 1211:17;1255:20 detrimental (1) 1191:18 devalue (1) 1145:1 devalued (1) 1142:9 develop (3)
1203:20;1207:3; 1238:6 course (1) 1258:3 court (3) 1139:4;1157:5; 1197:18 courts (2) 1158:18,19 cover (1) 1245:15 covered (2) 1120:1;1241:6 crane (8) 1163:23;1167:19;	dams (1) 1200:8 danger (1) 1152:9 dangerous (1) 1150:17 data (41) 1111:17,20,21; 1112:1;1115:8; 1116:17;1117:2,3,9; 1121:22;1122:2,3,14; 1125:22;1128:2,4,18, 23;1129:1,3,8,13,13, 16,19,22;1130:1,5;	decom (1) 1246:6 decommission (11) 1169:15;1176:17; 1179:21;1180:1; 1205:2;1210:14; 1212:12,17;1240:5; 1244:4;1245:7 decommissioned (12) 1170:7;1178:4; 1180:8;1214:18; 1225:11;1244:14,17, 18;1246:1,11,12,14 Decommissioning (106) 1158:2,7,23,24;	1221:8 defined (2) 1244:7,23 definite (1) 1165:16 definitely (2) 1143:4;1237:10 definition (4) 1200:2,4,13,18 deflating (1) 1115:4 degree (4) 1157:15;1188:11; 1199:5,24 demand (2)	1213:6 determine (6) 1115:17;1118:10; 1121:9;1179:19; 1242:4;1257:10 determined (2) 1211:17;1255:20 detrimental (1) 1191:18 devalue (1) 1145:1 devalued (1) 1142:9 develop (3) 1175:19;1176:17;
1203:20;1207:3; 1238:6 course (1) 1258:3 court (3) 1139:4;1157:5; 1197:18 courts (2) 1158:18,19 cover (1) 1245:15 covered (2) 1120:1;1241:6 crane (8) 1163:23;1167:19; 1172:7;1182:3;	dams (1) 1200:8 danger (1) 1152:9 dangerous (1) 1150:17 data (41) 1111:17,20,21; 1112:1;1115:8; 1116:17;1117:2,3,9; 1121:22;1122:2,3,14; 1125:22;1128:2,4,18, 23;1129:1,3,8,13,13, 16,19,22;1130:1,5; 1131:6;1134:18;	decom (1) 1246:6 decommission (11) 1169:15;1176:17; 1179:21;1180:1; 1205:2;1210:14; 1212:12,17;1240:5; 1244:4;1245:7 decommissioned (12) 1170:7;1178:4; 1180:8;1214:18; 1225:11;1244:14,17, 18;1246:1,11,12,14 Decommissioning (106) 1158:2,7,23,24; 1159:8,9,13,20,22;	1221:8 defined (2) 1244:7,23 definite (1) 1165:16 definitely (2) 1143:4;1237:10 definition (4) 1200:2,4,13,18 deflating (1) 1115:4 degree (4) 1157:15;1188:11; 1199:5,24 demand (2) 1235:14,14	1213:6 determine (6) 1115:17;1118:10; 1121:9;1179:19; 1242:4;1257:10 determined (2) 1211:17;1255:20 detrimental (1) 1191:18 devalue (1) 1145:1 devalued (1) 1142:9 develop (3) 1175:19;1176:17; 1202:15
1203:20;1207:3; 1238:6 course (1) 1258:3 court (3) 1139:4;1157:5; 1197:18 courts (2) 1158:18,19 cover (1) 1245:15 covered (2) 1120:1;1241:6 crane (8) 1163:23;1167:19; 1172:7;1182:3; 1223:16,20;1224:1,7	dams (1) 1200:8 danger (1) 1152:9 dangerous (1) 1150:17 data (41) 1111:17,20,21; 1112:1;1115:8; 1116:17;1117:2,3,9; 1121:22;1122:2,3,14; 1125:22;1128:2,4,18, 23;1129:1,3,8,13,13, 16,19,22;1130:1,5; 1131:6;1134:18; 1138:14;1140:2;	decom (1) 1246:6 decommission (11) 1169:15;1176:17; 1179:21;1180:1; 1205:2;1210:14; 1212:12,17;1240:5; 1244:4;1245:7 decommissioned (12) 1170:7;1178:4; 1180:8;1214:18; 1225:11;1244:14,17, 18;1246:1,11,12,14 Decommissioning (106) 1158:2,7,23,24; 1159:8,9,13,20,22; 1160:11;1161:9,13;	1221:8 defined (2) 1244:7,23 definite (1) 1165:16 definitely (2) 1143:4;1237:10 definition (4) 1200:2,4,13,18 deflating (1) 1115:4 degree (4) 1157:15;1188:11; 1199:5,24 demand (2) 1235:14,14 demobilize (1)	1213:6 determine (6) 1115:17;1118:10; 1121:9;1179:19; 1242:4;1257:10 determined (2) 1211:17;1255:20 detrimental (1) 1191:18 devalue (1) 1145:1 devalued (1) 1142:9 develop (3) 1175:19;1176:17; 1202:15 developed (3)
1203:20;1207:3; 1238:6 course (1) 1258:3 court (3) 1139:4;1157:5; 1197:18 courts (2) 1158:18,19 cover (1) 1245:15 covered (2) 1120:1;1241:6 crane (8) 1163:23;1167:19; 1172:7;1182:3; 1223:16,20;1224:1,7 cranes (2)	dams (1) 1200:8 danger (1) 1152:9 dangerous (1) 1150:17 data (41) 111:17,20,21; 1112:1;1115:8; 1116:17;1117:2,3,9; 1121:22;1122:2,3,14; 1125:22;1128:2,4,18, 23;1129:1,3,8,13,13, 16,19,22;1130:1,5; 1131:6;1134:18; 1138:14;1140:2; 1146:11;1149:9,18;	decom (1) 1246:6 decommission (11) 1169:15;1176:17; 1179:21;1180:1; 1205:2;1210:14; 1212:12,17;1240:5; 1244:4;1245:7 decommissioned (12) 1170:7;1178:4; 1180:8;1214:18; 1225:11;1244:14,17, 18;1246:1,11,12,14 Decommissioning (106) 1158:2,7,23,24; 1159:8,9,13,20,22; 1160:11;1161:9,13; 1162:7;1164:4,6;	1221:8 defined (2) 1244:7,23 definite (1) 1165:16 definitely (2) 1143:4;1237:10 definition (4) 1200:2,4,13,18 deflating (1) 1115:4 degree (4) 1157:15;1188:11; 1199:5,24 demand (2) 1235:14,14 demobilize (1) 1168:9	1213:6 determine (6) 1115:17;1118:10; 1121:9;1179:19; 1242:4;1257:10 determined (2) 1211:17;1255:20 detrimental (1) 1191:18 devalue (1) 1145:1 devalued (1) 1142:9 develop (3) 1175:19;1176:17; 1202:15 developed (3) 1167:14;1174:16;
1203:20;1207:3; 1238:6 course (1) 1258:3 court (3) 1139:4;1157:5; 1197:18 courts (2) 1158:18,19 cover (1) 1245:15 covered (2) 1120:1;1241:6 crane (8) 1163:23;1167:19; 1172:7;1182:3; 1223:16,20;1224:1,7 cranes (2) 1168:8;1172:8	dams (1) 1200:8 danger (1) 1152:9 dangerous (1) 1150:17 data (41) 1111:17,20,21; 1112:1;1115:8; 1116:17;1117:2,3,9; 1121:22;1122:2,3,14; 1125:22;1128:2,4,18, 23;1129:1,3,8,13,13, 16,19,22;1130:1,5; 1131:6;1134:18; 1138:14;1140:2; 1146:11;1149:9,18; 1179:18;1193:18;	decom (1) 1246:6 decommission (11) 1169:15;1176:17; 1179:21;1180:1; 1205:2;1210:14; 1212:12,17;1240:5; 1244:4;1245:7 decommissioned (12) 1170:7;1178:4; 1180:8;1214:18; 1225:11;1244:14,17, 18;1246:1,11,12,14 Decommissioning (106) 1158:2,7,23,24; 1159:8,9,13,20,22; 1160:11;1161:9,13; 1162:7;1164:4,6; 1165:14;1166:13;	1221:8 defined (2) 1244:7,23 definite (1) 1165:16 definitely (2) 1143:4;1237:10 definition (4) 1200:2,4,13,18 deflating (1) 1115:4 degree (4) 1157:15;1188:11; 1199:5,24 demand (2) 1235:14,14 demobilize (1) 1168:9 demolition (7)	1213:6 determine (6) 1115:17;1118:10; 1121:9;1179:19; 1242:4;1257:10 determined (2) 1211:17;1255:20 detrimental (1) 1191:18 devalue (1) 1145:1 devalued (1) 1142:9 develop (3) 1175:19;1176:17; 1202:15 developed (3) 1167:14;1174:16; 1226:13
1203:20;1207:3; 1238:6 course (1) 1258:3 court (3) 1139:4;1157:5; 1197:18 courts (2) 1158:18,19 cover (1) 1245:15 covered (2) 1120:1;1241:6 crane (8) 1163:23;1167:19; 1172:7;1182:3; 1223:16,20;1224:1,7 cranes (2)	dams (1) 1200:8 danger (1) 1152:9 dangerous (1) 1150:17 data (41) 111:17,20,21; 1112:1;1115:8; 1116:17;1117:2,3,9; 1121:22;1122:2,3,14; 1125:22;1128:2,4,18, 23;1129:1,3,8,13,13, 16,19,22;1130:1,5; 1131:6;1134:18; 1138:14;1140:2; 1146:11;1149:9,18;	decom (1) 1246:6 decommission (11) 1169:15;1176:17; 1179:21;1180:1; 1205:2;1210:14; 1212:12,17;1240:5; 1244:4;1245:7 decommissioned (12) 1170:7;1178:4; 1180:8;1214:18; 1225:11;1244:14,17, 18;1246:1,11,12,14 Decommissioning (106) 1158:2,7,23,24; 1159:8,9,13,20,22; 1160:11;1161:9,13; 1162:7;1164:4,6; 1165:14;1166:13; 1168:19;1170:1,4,5,10,	1221:8 defined (2) 1244:7,23 definite (1) 1165:16 definitely (2) 1143:4;1237:10 definition (4) 1200:2,4,13,18 deflating (1) 1115:4 degree (4) 1157:15;1188:11; 1199:5,24 demand (2) 1235:14,14 demobilize (1) 1168:9	1213:6 determine (6) 1115:17;1118:10; 1121:9;1179:19; 1242:4;1257:10 determined (2) 1211:17;1255:20 detrimental (1) 1191:18 devalue (1) 1145:1 devalued (1) 1142:9 develop (3) 1175:19;1176:17; 1202:15 developed (3) 1167:14;1174:16; 1226:13 developer (8)
1203:20;1207:3; 1238:6 course (1) 1258:3 court (3) 1139:4;1157:5; 1197:18 courts (2) 1158:18,19 cover (1) 1245:15 covered (2) 1120:1;1241:6 crane (8) 1163:23;1167:19; 1172:7;1182:3; 1223:16,20;1224:1,7 cranes (2) 1168:8;1172:8	dams (1) 1200:8 danger (1) 1152:9 dangerous (1) 1150:17 data (41) 1111:17,20,21; 1112:1;1115:8; 1116:17;1117:2,3,9; 1121:22;1122:2,3,14; 1125:22;1128:2,4,18, 23;1129:1,3,8,13,13, 16,19,22;1130:1,5; 1131:6;1134:18; 1138:14;1140:2; 1146:11;1149:9,18; 1179:18;1193:18;	decom (1) 1246:6 decommission (11) 1169:15;1176:17; 1179:21;1180:1; 1205:2;1210:14; 1212:12,17;1240:5; 1244:4;1245:7 decommissioned (12) 1170:7;1178:4; 1180:8;1214:18; 1225:11;1244:14,17, 18;1246:1,11,12,14 Decommissioning (106) 1158:2,7,23,24; 1159:8,9,13,20,22; 1160:11;1161:9,13; 1162:7;1164:4,6; 1165:14;1166:13;	1221:8 defined (2) 1244:7,23 definite (1) 1165:16 definitely (2) 1143:4;1237:10 definition (4) 1200:2,4,13,18 deflating (1) 1115:4 degree (4) 1157:15;1188:11; 1199:5,24 demand (2) 1235:14,14 demobilize (1) 1168:9 demolition (7)	1213:6 determine (6) 1115:17;1118:10; 1121:9;1179:19; 1242:4;1257:10 determined (2) 1211:17;1255:20 detrimental (1) 1191:18 devalue (1) 1145:1 devalued (1) 1142:9 develop (3) 1175:19;1176:17; 1202:15 developed (3) 1167:14;1174:16; 1226:13
1203:20;1207:3; 1238:6 course (1) 1258:3 court (3) 1139:4;1157:5; 1197:18 courts (2) 1158:18,19 cover (1) 1245:15 covered (2) 1120:1;1241:6 crane (8) 1163:23;1167:19; 1172:7;1182:3; 1223:16,20;1224:1,7 cranes (2) 1168:8;1172:8 crapper (1) 1173:22	dams (1) 1200:8 danger (1) 1152:9 dangerous (1) 1150:17 data (41) 111:17,20,21; 1112:1;1115:8; 1116:17;1117:2,3,9; 1121:22;1122:2,3,14; 1125:22;1128:2,4,18, 23;1129:1,3,8,13,13, 16,19,22;1130:1,5; 1131:6;1134:18; 1138:14;1140:2; 1146:11;1149:9,18; 1179:18;1193:18; 1246:8,17;1253:9;	decom (1) 1246:6 decommission (11) 1169:15;1176:17; 1179:21;1180:1; 1205:2;1210:14; 1212:12,17;1240:5; 1244:4;1245:7 decommissioned (12) 1170:7;1178:4; 1180:8;1214:18; 1225:11;1244:14,17, 18;1246:1,11,12,14 Decommissioning (106) 1158:2,7,23,24; 1159:8,9,13,20,22; 1160:11;1161:9,13; 1162:7;1164:4,6; 1165:14;1166:13; 1168:19;1170:1,4,5,10,	1221:8 defined (2) 1244:7,23 definite (1) 1165:16 definitely (2) 1143:4;1237:10 definition (4) 1200:2,4,13,18 deflating (1) 1115:4 degree (4) 1157:15;1188:11; 1199:5,24 demand (2) 1235:14,14 demobilize (1) 1168:9 demolition (7) 1167:22,24;1173:5;	1213:6 determine (6) 1115:17;1118:10; 1121:9;1179:19; 1242:4;1257:10 determined (2) 1211:17;1255:20 detrimental (1) 1191:18 devalue (1) 1145:1 devalued (1) 1142:9 develop (3) 1175:19;1176:17; 1202:15 developed (3) 1167:14;1174:16; 1226:13 developer (8)
1203:20;1207:3; 1238:6 course (1) 1258:3 court (3) 1139:4;1157:5; 1197:18 courts (2) 1158:18,19 cover (1) 1245:15 covered (2) 1120:1;1241:6 crane (8) 1163:23;1167:19; 1172:7;1182:3; 1223:16,20;1224:1,7 cranes (2) 1168:8;1172:8 crapper (1)	dams (1) 1200:8 danger (1) 1152:9 dangerous (1) 1150:17 data (41) 1111:17,20,21; 1112:1;1115:8; 1116:17;1117:2,3,9; 1121:22;1122:2,3,14; 1125:22;1128:2,4,18, 23;1129:1,3,8,13,13, 16,19,22;1130:1,5; 1131:6;1134:18; 1138:14;1140:2; 1146:11;1149:9,18; 1179:18;1193:18; 1246:8,17;1253:9; 1258:19 database (4)	decom (1) 1246:6 decommission (11) 1169:15;1176:17; 1179:21;1180:1; 1205:2;1210:14; 1212:12,17;1240:5; 1244:4;1245:7 decommissioned (12) 1170:7;1178:4; 1180:8;1214:18; 1225:11;1244:14,17, 18;1246:1,11,12,14 Decommissioning (106) 1158:2,7,23,24; 1159:8,9,13,20,22; 1160:11;1161:9,13; 1162:7;1164:4,6; 1165:14;1166:13; 1168:19;1170:1,4,5,10, 14;1172:15;1173:4;	1221:8 defined (2) 1244:7,23 definite (1) 1165:16 definitely (2) 1143:4;1237:10 definition (4) 1200:2,4,13,18 deflating (1) 1115:4 degree (4) 1157:15;1188:11; 1199:5,24 demand (2) 1235:14,14 demobilize (1) 1168:9 demolition (7) 1167:22,24;1173:5; 1203:5;1220:23;	1213:6 determine (6) 1115:17;1118:10; 1121:9;1179:19; 1242:4;1257:10 determined (2) 1211:17;1255:20 detrimental (1) 1191:18 devalue (1) 1145:1 devalued (1) 1142:9 develop (3) 1175:19;1176:17; 1202:15 developed (3) 1167:14;1174:16; 1226:13 developer (8) 1173:16;1174:11,13; 1175:1;1189:13;
1203:20;1207:3; 1238:6 course (1) 1258:3 court (3) 1139:4;1157:5; 1197:18 courts (2) 1158:18,19 cover (1) 1245:15 covered (2) 1120:1;1241:6 crane (8) 1163:23;1167:19; 1172:7;1182:3; 1223:16,20;1224:1,7 cranes (2) 1168:8;1172:8 crapper (1) 1173:22 crappy (1) 1150:12	dams (1) 1200:8 danger (1) 1152:9 dangerous (1) 1150:17 data (41) 1111:17,20,21; 1112:1;1115:8; 1116:17;1117:2,3,9; 1121:22;1122:2,3,14; 1125:22;1128:2,4,18, 23;1129:1,3,8,13,13, 16,19,22;1130:1,5; 1131:6;1134:18; 1138:14;1140:2; 1146:11;1149:9,18; 1179:18;1193:18; 1246:8,17;1253:9; 1258:19 database (4) 1120:3,11;1246:10,	decom (1) 1246:6 decommission (11) 1169:15;1176:17; 1179:21;1180:1; 1205:2;1210:14; 1212:12,17;1240:5; 1244:4;1245:7 decommissioned (12) 1170:7;1178:4; 1180:8;1214:18; 1225:11;1244:14,17, 18;1246:1,11,12,14 Decommissioning (106) 1158:2,7,23,24; 1159:8,9,13,20,22; 1160:11;1161:9,13; 1162:7;1164:4,6; 1165:14;1166:13; 1168:19;1170:1,4,5,10, 14;1172:15;1173:4; 1175:14,20;1176:6,10, 15;1177:4,9;1180:3,4;	1221:8 defined (2) 1244:7,23 definite (1) 1165:16 definitely (2) 1143:4;1237:10 definition (4) 1200:2,4,13,18 deflating (1) 1115:4 degree (4) 1157:15;1188:11; 1199:5,24 demand (2) 1235:14,14 demobilize (1) 1168:9 demolition (7) 1167:22,24;1173:5; 1203:5;1220:23; 1221:3;1239:4 demo-substation (2)	1213:6 determine (6) 1115:17;1118:10; 1121:9;1179:19; 1242:4;1257:10 determined (2) 1211:17;1255:20 detrimental (1) 1191:18 devalue (1) 1145:1 devalued (1) 1142:9 develop (3) 1175:19;1176:17; 1202:15 developed (3) 1167:14;1174:16; 1226:13 developer (8) 1173:16;1174:11,13; 1175:1;1189:13; 1194:21,24;1252:8
1203:20;1207:3; 1238:6 course (1) 1258:3 court (3) 1139:4;1157:5; 1197:18 courts (2) 1158:18,19 cover (1) 1245:15 covered (2) 1120:1;1241:6 crane (8) 1163:23;1167:19; 1172:7;1182:3; 1223:16,20;1224:1,7 cranes (2) 1168:8;1172:8 crapper (1) 1173:22 crappy (1) 1150:12 created (2)	dams (1) 1200:8 danger (1) 1152:9 dangerous (1) 1150:17 data (41) 1111:17,20,21; 1112:1;1115:8; 1116:17;1117:2,3,9; 1121:22;1122:2,3,14; 1125:22;1128:2,4,18, 23;1129:1,3,8,13,13, 16,19,22;1130:1,5; 1131:6;1134:18; 1138:14;1140:2; 1146:11;1149:9,18; 1179:18;1193:18; 1246:8,17;1253:9; 1258:19 database (4) 1120:3,11;1246:10, 11	decom (1) 1246:6 decommission (11) 1169:15;1176:17; 1179:21;1180:1; 1205:2;1210:14; 1212:12,17;1240:5; 1244:4;1245:7 decommissioned (12) 1170:7;1178:4; 1180:8;1214:18; 1225:11;1244:14,17, 18;1246:1,11,12,14 Decommissioning (106) 1158:2,7,23,24; 1159:8,9,13,20,22; 1160:11;1161:9,13; 1162:7;1164:4,6; 1165:14;1166:13; 1168:19;1170:1,4,5,10, 14;1172:15;1173:4; 1175:14,20;1176:6,10, 15;1177:4,9;1180:3,4; 1183:9,12;1188:21,23;	1221:8 defined (2) 1244:7,23 definite (1) 1165:16 definitely (2) 1143:4;1237:10 definition (4) 1200:2,4,13,18 deflating (1) 1115:4 degree (4) 1157:15;1188:11; 1199:5,24 demand (2) 1235:14,14 demobilize (1) 1168:9 demolition (7) 1167:22,24;1173:5; 1203:5;1220:23; 1221:3;1239:4 demo-substation (2) 1226:21;1227:24	1213:6 determine (6) 1115:17;1118:10; 1121:9;1179:19; 1242:4;1257:10 determined (2) 1211:17;1255:20 detrimental (1) 1191:18 devalue (1) 1145:1 devalued (1) 1142:9 develop (3) 1175:19;1176:17; 1202:15 developed (3) 1167:14;1174:16; 1226:13 developer (8) 1173:16;1174:11,13; 1175:1;1189:13; 1194:21,24;1252:8 developers (1)
1203:20;1207:3; 1238:6 course (1) 1258:3 court (3) 1139:4;1157:5; 1197:18 courts (2) 1158:18,19 cover (1) 1245:15 covered (2) 1120:1;1241:6 crane (8) 1163:23;1167:19; 1172:7;1182:3; 1223:16,20;1224:1,7 cranes (2) 1168:8;1172:8 crapper (1) 1173:22 crappy (1) 1150:12 created (2) 1104:23;1234:11	dams (1) 1200:8 danger (1) 1152:9 dangerous (1) 1150:17 data (41) 1111:17,20,21; 1112:1;1115:8; 1116:17;1117:2,3,9; 1121:22;1122:2,3,14; 1125:22;1128:2,4,18, 23;1129:1,3,8,13,13, 16,19,22;1130:1,5; 1131:6;1134:18; 1138:14;1140:2; 1146:11;1149:9,18; 1179:18;1193:18; 1246:8,17;1253:9; 1258:19 database (4) 1120:3,11;1246:10, 11 date (2)	decom (1) 1246:6 decommission (11) 1169:15;1176:17; 1179:21;1180:1; 1205:2;1210:14; 1212:12,17;1240:5; 1244:4;1245:7 decommissioned (12) 1170:7;1178:4; 1180:8;1214:18; 1225:11;1244:14,17, 18;1246:1,11,12,14 Decommissioning (106) 1158:2,7,23,24; 1159:8,9,13,20,22; 1160:11;1161:9,13; 1162:7;1164:4,6; 1165:14;1166:13; 1168:19;1170:1,4,5,10, 14;1172:15;1173:4; 1175:14,20;1176:6,10, 15;1177:4,9;1180:3,4; 1183:9,12;1188:21,23; 1192:14;1193:20;	1221:8 defined (2) 1244:7,23 definite (1) 1165:16 definitely (2) 1143:4;1237:10 definition (4) 1200:2,4,13,18 deflating (1) 1115:4 degree (4) 1157:15;1188:11; 1199:5,24 demand (2) 1235:14,14 demobilize (1) 1168:9 demolition (7) 1167:22,24;1173:5; 1203:5;1220:23; 1221:3;1239:4 demo-substation (2) 1226:21;1227:24 density (6)	1213:6 determine (6) 1115:17;1118:10; 1121:9;1179:19; 1242:4;1257:10 determined (2) 1211:17;1255:20 detrimental (1) 1191:18 devalue (1) 1145:1 devalued (1) 1142:9 develop (3) 1175:19;1176:17; 1202:15 developed (3) 1167:14;1174:16; 1226:13 developer (8) 1173:16;1174:11,13; 1175:1;1189:13; 1194:21,24;1252:8 developers (1) 1250:2
1203:20;1207:3; 1238:6 course (1) 1258:3 court (3) 1139:4;1157:5; 1197:18 courts (2) 1158:18,19 cover (1) 1245:15 covered (2) 1120:1;1241:6 crane (8) 1163:23;1167:19; 1172:7;1182:3; 1223:16,20;1224:1,7 cranes (2) 1168:8;1172:8 crapper (1) 1173:22 crappy (1) 1150:12 created (2) 1104:23;1234:11 creating (1)	dams (1) 1200:8 danger (1) 1152:9 dangerous (1) 1150:17 data (41) 1111:17,20,21; 1112:1;1115:8; 1116:17;1117:2,3,9; 1121:22;1122:2,3,14; 1125:22;1128:2,4,18, 23;1129:1,3,8,13,13, 16,19,22;1130:1,5; 1131:6;1134:18; 1138:14;1140:2; 1146:11;1149:9,18; 1179:18;1193:18; 1246:8,17;1253:9; 1258:19 database (4) 1120:3,11;1246:10, 11 date (2) 1175:11;1176:6	decom (1) 1246:6 decommission (11) 1169:15;1176:17; 1179:21;1180:1; 1205:2;1210:14; 1212:12,17;1240:5; 1244:4;1245:7 decommissioned (12) 1170:7;1178:4; 1180:8;1214:18; 1225:11;1244:14,17, 18;1246:1,11,12,14 Decommissioning (106) 1158:2,7,23,24; 1159:8,9,13,20,22; 1160:11;1161:9,13; 1162:7;1164:4,6; 1165:14;1166:13; 1168:19;1170:1,4,5,10, 14;1172:15;1173:4; 1175:14,20;1176:6,10, 15;1177:4,9;1180:3,4; 1183:9,12;1188:21,23; 1192:14;1193:20; 1194:3,8,14;1195:5,11;	1221:8 defined (2) 1244:7,23 definite (1) 1165:16 definitely (2) 1143:4;1237:10 definition (4) 1200:2,4,13,18 deflating (1) 1115:4 degree (4) 1157:15;1188:11; 1199:5,24 demand (2) 1235:14,14 demobilize (1) 1168:9 demolition (7) 1167:22,24;1173:5; 1203:5;1220:23; 1221:3;1239:4 demo-substation (2) 1226:21;1227:24 density (6) 1115:24;1116:3,13,	1213:6 determine (6) 1115:17;1118:10; 1121:9;1179:19; 1242:4;1257:10 determined (2) 1211:17;1255:20 detrimental (1) 1191:18 devalue (1) 1145:1 devalued (1) 1142:9 develop (3) 1175:19;1176:17; 1202:15 developed (3) 1167:14;1174:16; 1226:13 developer (8) 1173:16;1174:11,13; 1175:1;1189:13; 1194:21,24;1252:8 developers (1) 1250:2 development (1)
1203:20;1207:3; 1238:6 course (1) 1258:3 court (3) 1139:4;1157:5; 1197:18 courts (2) 1158:18,19 cover (1) 1245:15 covered (2) 1120:1;1241:6 crane (8) 1163:23;1167:19; 1172:7;1182:3; 1223:16,20;1224:1,7 cranes (2) 1168:8;1172:8 crapper (1) 1173:22 crappy (1) 1150:12 created (2) 1104:23;1234:11 creating (1) 1245:1	dams (1) 1200:8 danger (1) 1152:9 dangerous (1) 1150:17 data (41) 1111:17,20,21; 1112:1;1115:8; 1116:17;1117:2,3,9; 1121:22;1122:2,3,14; 1125:22;1128:2,4,18, 23;1129:1,3,8,13,13, 16,19,22;1130:1,5; 1131:6;1134:18; 1138:14;1140:2; 1146:11;1149:9,18; 1179:18;1193:18; 1246:8,17;1253:9; 1258:19 database (4) 1120:3,11;1246:10, 11 date (2) 1175:11;1176:6 dated (3)	decom (1) 1246:6 decommission (11) 1169:15;1176:17; 1179:21;1180:1; 1205:2;1210:14; 1212:12,17;1240:5; 1244:4;1245:7 decommissioned (12) 1170:7;1178:4; 1180:8;1214:18; 1225:11;1244:14,17, 18;1246:1,11,12,14 Decommissioning (106) 1158:2,7,23,24; 1159:8,9,13,20,22; 1160:11;1161:9,13; 1162:7;1164:4,6; 1165:14;1166:13; 1168:19;1170:1,4,5,10, 14;1172:15;1173:4; 1175:14,20;1176:6,10, 15;1177:4,9;1180:3,4; 1183:9,12;1188:21,23; 1192:14;1193:20; 1194:3,8,14;1195:5,11; 1196:13,18;1197:1,11;	1221:8 defined (2) 1244:7,23 definite (1) 1165:16 definitely (2) 1143:4;1237:10 definition (4) 1200:2,4,13,18 deflating (1) 1115:4 degree (4) 1157:15;1188:11; 1199:5,24 demand (2) 1235:14,14 demobilize (1) 1168:9 demolition (7) 1167:22,24;1173:5; 1203:5;1220:23; 1221:3;1239:4 demo-substation (2) 1226:21;1227:24 density (6) 1115:24;1116:3,13, 13;1117:3,4	1213:6 determine (6) 1115:17;1118:10; 1121:9;1179:19; 1242:4;1257:10 determined (2) 1211:17;1255:20 detrimental (1) 1191:18 devalue (1) 1145:1 devalued (1) 1142:9 develop (3) 1175:19;1176:17; 1202:15 developed (3) 1167:14;1174:16; 1226:13 developer (8) 1173:16;1174:11,13; 1175:1;1189:13; 1194:21,24;1252:8 developers (1) 1250:2 development (1) 1201:4
1203:20;1207:3; 1238:6 course (1) 1258:3 court (3) 1139:4;1157:5; 1197:18 courts (2) 1158:18,19 cover (1) 1245:15 covered (2) 1120:1;1241:6 crane (8) 1163:23;1167:19; 1172:7;1182:3; 1223:16,20;1224:1,7 cranes (2) 1168:8;1172:8 crapper (1) 1173:22 crappy (1) 1150:12 created (2) 1104:23;1234:11 creating (1) 1245:1 credit (2)	dams (1) 1200:8 danger (1) 1152:9 dangerous (1) 1150:17 data (41) 1111:17,20,21; 1112:1;1115:8; 1116:17;1117:2,3,9; 1121:22;1122:2,3,14; 1125:22;1128:2,4,18, 23;1129:1,3,8,13,13, 16,19,22;1130:1,5; 1131:6;1134:18; 1138:14;1140:2; 1146:11;1149:9,18; 1179:18;1193:18; 1246:8,17;1253:9; 1258:19 database (4) 1120:3,11;1246:10, 11 date (2) 1175:11;1176:6 dated (3) 1158:1;1195:21;	decom (1) 1246:6 decommission (11) 1169:15;1176:17; 1179:21;1180:1; 1205:2;1210:14; 1212:12,17;1240:5; 1244:4;1245:7 decommissioned (12) 1170:7;1178:4; 1180:8;1214:18; 1225:11;1244:14,17, 18;1246:1,11,12,14 Decommissioning (106) 1158:2,7,23,24; 1159:8,9,13,20,22; 1160:11;1161:9,13; 1162:7;1164:4,6; 1165:14;1166:13; 1168:19;1170:1,4,5,10, 14;1172:15;1173:4; 1175:14,20;1176:6,10, 15;1177:4,9;1180:3,4; 1183:9,12;1188:21,23; 1192:14;1193:20; 1194:3,8,14;1195:5,11; 1196:13,18;1197:1,11; 1201:1,4,8,11,11,14,18,	1221:8 defined (2) 1244:7,23 definite (1) 1165:16 definitely (2) 1143:4;1237:10 definition (4) 1200:2,4,13,18 deflating (1) 1115:4 degree (4) 1157:15;1188:11; 1199:5,24 demand (2) 1235:14,14 demobilize (1) 1168:9 demolition (7) 1167:22,24;1173:5; 1203:5;1220:23; 1221:3;1239:4 demo-substation (2) 1226:21;1227:24 density (6) 1115:24;1116:3,13, 13;1117:3,4 Department (1)	1213:6 determine (6) 1115:17;1118:10; 1121:9;1179:19; 1242:4;1257:10 determined (2) 1211:17;1255:20 detrimental (1) 1191:18 devalue (1) 1145:1 devalued (1) 1142:9 develop (3) 1175:19;1176:17; 1202:15 developed (3) 1167:14;1174:16; 1226:13 developer (8) 1173:16;1174:11,13; 1175:1;1189:13; 1194:21,24;1252:8 developers (1) 1250:2 development (1) 1201:4 deviated (2)
1203:20;1207:3; 1238:6 course (1) 1258:3 court (3) 1139:4;1157:5; 1197:18 courts (2) 1158:18,19 cover (1) 1245:15 covered (2) 1120:1;1241:6 crane (8) 1163:23;1167:19; 1172:7;1182:3; 1223:16,20;1224:1,7 cranes (2) 1168:8;1172:8 crapper (1) 1173:22 crappy (1) 1150:12 created (2) 1104:23;1234:11 creating (1) 1245:1 credit (2) 1256:5,11	dams (1) 1200:8 danger (1) 1152:9 dangerous (1) 1150:17 data (41) 1111:17,20,21; 1112:1;1115:8; 1116:17;1117:2,3,9; 1121:22;1122:2,3,14; 1125:22;1128:2,4,18, 23;1129:1,3,8,13,13, 16,19,22;1130:1,5; 1131:6;1134:18; 1138:14;1140:2; 1146:11;1149:9,18; 1179:18;1193:18; 1246:8,17;1253:9; 1258:19 database (4) 1120:3,11;1246:10, 11 date (2) 1175:11;1176:6 dated (3) 1158:1;1195:21; 1208:4	decom (1) 1246:6 decommission (11) 1169:15;1176:17; 1179:21;1180:1; 1205:2;1210:14; 1212:12,17;1240:5; 1244:4;1245:7 decommissioned (12) 1170:7;1178:4; 1180:8;1214:18; 1225:11;1244:14,17, 18;1246:1,11,12,14 Decommissioning (106) 1158:2,7,23,24; 1159:8,9,13,20,22; 1160:11;1161:9,13; 1162:7;1164:4,6; 1165:14;1166:13; 1168:19;1170:1,4,5,10, 14;1172:15;1173:4; 1175:14,20;1176:6,10, 15;1177:4,9;1180:3,4; 1183:9,12;1188:21,23; 1192:14;1193:20; 1194:3,8,14;1195:5,11; 1196:13,18;1197:1,11; 1201:1,4,8,11,11,14,18, 22;1202:1,5,15,20;	1221:8 defined (2) 1244:7,23 definite (1) 1165:16 definitely (2) 1143:4;1237:10 definition (4) 1200:2,4,13,18 deflating (1) 1115:4 degree (4) 1157:15;1188:11; 1199:5,24 demand (2) 1235:14,14 demobilize (1) 1168:9 demolition (7) 1167:22,24;1173:5; 1203:5;1220:23; 1221:3;1239:4 demo-substation (2) 1226:21;1227:24 density (6) 1115:24;1116:3,13, 13;1117:3,4 Department (1) 1200:3	1213:6 determine (6) 1115:17;1118:10; 1121:9;1179:19; 1242:4;1257:10 determined (2) 1211:17;1255:20 detrimental (1) 1191:18 devalue (1) 1145:1 devalued (1) 1142:9 develop (3) 1175:19;1176:17; 1202:15 developed (3) 1167:14;1174:16; 1226:13 developer (8) 1173:16;1174:11,13; 1175:1;1189:13; 1194:21,24;1252:8 developers (1) 1250:2 development (1) 1201:4 deviated (2) 1104:17;1105:3
1203:20;1207:3; 1238:6 course (1) 1258:3 court (3) 1139:4;1157:5; 1197:18 courts (2) 1158:18,19 cover (1) 1245:15 covered (2) 1120:1;1241:6 crane (8) 1163:23;1167:19; 1172:7;1182:3; 1223:16,20;1224:1,7 cranes (2) 1168:8;1172:8 crapper (1) 1173:22 crappy (1) 1150:12 created (2) 1104:23;1234:11 creating (1) 1245:1 credit (2)	dams (1) 1200:8 danger (1) 1152:9 dangerous (1) 1150:17 data (41) 1111:17,20,21; 1112:1;1115:8; 1116:17;1117:2,3,9; 1121:22;1122:2,3,14; 1125:22;1128:2,4,18, 23;1129:1,3,8,13,13, 16,19,22;1130:1,5; 1131:6;1134:18; 1138:14;1140:2; 1146:11;1149:9,18; 1179:18;1193:18; 1246:8,17;1253:9; 1258:19 database (4) 1120:3,11;1246:10, 11 date (2) 1175:11;1176:6 dated (3) 1158:1;1195:21;	decom (1) 1246:6 decommission (11) 1169:15;1176:17; 1179:21;1180:1; 1205:2;1210:14; 1212:12,17;1240:5; 1244:4;1245:7 decommissioned (12) 1170:7;1178:4; 1180:8;1214:18; 1225:11;1244:14,17, 18;1246:1,11,12,14 Decommissioning (106) 1158:2,7,23,24; 1159:8,9,13,20,22; 1160:11;1161:9,13; 1162:7;1164:4,6; 1165:14;1166:13; 1168:19;1170:1,4,5,10, 14;1172:15;1173:4; 1175:14,20;1176:6,10, 15;1177:4,9;1180:3,4; 1183:9,12;1188:21,23; 1192:14;1193:20; 1194:3,8,14;1195:5,11; 1196:13,18;1197:1,11; 1201:1,4,8,11,11,14,18,	1221:8 defined (2) 1244:7,23 definite (1) 1165:16 definitely (2) 1143:4;1237:10 definition (4) 1200:2,4,13,18 deflating (1) 1115:4 degree (4) 1157:15;1188:11; 1199:5,24 demand (2) 1235:14,14 demobilize (1) 1168:9 demolition (7) 1167:22,24;1173:5; 1203:5;1220:23; 1221:3;1239:4 demo-substation (2) 1226:21;1227:24 density (6) 1115:24;1116:3,13, 13;1117:3,4 Department (1)	1213:6 determine (6) 1115:17;1118:10; 1121:9;1179:19; 1242:4;1257:10 determined (2) 1211:17;1255:20 detrimental (1) 1191:18 devalue (1) 1145:1 devalued (1) 1142:9 develop (3) 1175:19;1176:17; 1202:15 developed (3) 1167:14;1174:16; 1226:13 developer (8) 1173:16;1174:11,13; 1175:1;1189:13; 1194:21,24;1252:8 developers (1) 1250:2 development (1) 1201:4 deviated (2)

1104:24;1105:9	dispose (1)	1181:14;1182:4,4,23;	1116:18;1124:1;	1183:2;1198:12;
Diana (1)	1184:4	1194:6,8;1205:23;	1138:23;1139:12	1207:24;1222:11;
1102:16	dispute (3)	1215:2;1218:20;	efficiencies (3)	1224:14;1243:3;
				, , ,
dictate (1)	1253:11,19,22	1234:12;1245:4,18;	1168:7,11,13	1244:7,8,9
1171:21	dissipates (2)	1257:23	effort (1)	endangered (1)
die (1)	1144:3,6	downward (1)	1119:6	1191:1
1162:2	distance (14)	1124:3	efforts (1)	ended (3)
Diego (2)	1116:11;1117:19,21;	dramatically (1)	1238:5	1129:16;1181:15;
1134:15,18	1118:5,22;1122:1;	1123:5	eg (1)	1183:19
difference (22)	1146:12;1150:7,15,17,	drew (1)	1124:2	Energy (16)
1133:16,18;1135:3,	22;1151:20;1152:10;	1112:17	eight (3)	1102:8,9;1109:11;
5,12,13,22;1138:19;	1168:8	drive (1)	1110:22;1158:19;	1157:11,17,19;1158:2;
1153:7;1160:13;	distances (1)	1234:12	1211:7	1176:10;1187:17;
1164:3,7,21;1165:7;	1153:19	drop (3)	either (14)	1192:17;1199:10,12,
1168:6,16;1173:23;	distributed (1)	1127:4,5,5	1115:15;1126:14;	21;1207:10;1234:19;
1194:6;1220:2;	1187:21	duly (1)	1128:13;1136:4;	1248:8
		1157:3		
1228:23;1237:6;	district (2)		1137:14;1139:11;	engine (1)
1258:14	1122:1;1141:8	dummy (1)	1140:9;1141:7;1148:9;	1169:16
differences (2)	divide (4)	1116:19	1151:9;1188:21;	engineer (10)
1164:7;1165:6	1229:12;1239:23;	duration (5)	1204:9;1208:11;	1188:5,19;1191:14;
different (42)	1240:1,9	1210:10;1211:6,11,	1231:4	1192:2,5;1199:5;
1105:2;1115:19;	divided (3)	15;1212:11	elect (1)	1201:8,14;1202:17;
1116:6,16;1117:2,5;	1139:20;1228:21;	during (2)	1179:4	1255:6
1118:6;1119:2;1123:9;	1251:18	1130:7;1252:18	elected (1)	engineering (12)
		1130.7,1232.18		
1129:13;1131:18;	doctor (1)	T-0	1197:20	1157:16;1193:21;
1138:2;1140:7;1151:3,	1191:11	${f E}$	electric (4)	1199:6,20;1200:5,14,
4,15,18;1153:19;	document (7)		1159:5,11;1161:5;	19;1202:13,14;
1154:13,16;1158:17,	1181:23;1193:4;	earlier (4)	1235:17	1203:14;1204:15;
22;1160:9;1161:8;	1195:24;1196:10,10;	1162:4;1201:3;	electrical (1)	1258:9
1171:10;1175:6,9;	1247:22;1254:22	1209:5;1243:9	1159:3	engineers (6)
1178:20,24;1179:1,1,2;	documents (2)	easement (3)	electrician (2)	1169:17;1199:22;
1181:4,7,11;1184:1;	1106:21;1206:21	1250:11,19,22	1229:4,8	1200:5,12;1207:7;
	dollar (3)		electricity (2)	1257:6
1195:15;1241:7;		easements (2)		
1244:11;1246:13;	1134:23;1183:24;	1250:7,14	1157:21;1187:23	engineer's (1)
1249:16;1251:19	1258:13	easier (6)	electronic (1)	1255:9
differential (1)	dollars (14)	1103:15;1107:22;	1126:9	enlightening (1)
1237:16	1114:24;1115:2,3,5,	1108:23;1136:7,12;	electronically (1)	1169:10
difficult (1)	5,6;1132:16,18,22;	1208:10	1126:14	enough (6)
1228:13	1134:23,24;1135:4;	easy (1)	elements (1)	1113:5;1206:19;
Dig (1)	1161:20,21	1135:15	1235:16	1211:2;1238:14;
1257:4	done (32)	economic (2)	eliminated (5)	1245:17;1259:2
	1104:3;1113:10;		1104:12,22;1105:10,	enter (1)
dip (1)		1154:17;1257:10		
1130:11	1127:22;1135:6;	economically (1)	15;1128:22	1250:6
direct (2)	1143:21;1144:14,18;	1177:21	ELSCO (1)	entered (1)
1201:1,7	1155:15;1158:6,21,24;	economies (1)	1161:5	1118:23
direction (2)	1159:9;1160:3;1167:3;	1209:22	else (16)	entire (8)
1106:17;1223:3	1171:9;1173:2,2;	economy (1)	1121:16;1124:13;	1143:16;1205:21;
directly (2)	1188:16;1195:6;	1208:18	1129:23;1133:13;	1214:14;1227:24;
1127:3;1248:11	1201:10,21;1202:2,6;	Ed (1)	1141:4;1142:5;	1239:17;1245:17;
disagree (1)	1203:17;1205:11;	1249:4	1145:12,22;1146:21,	1252:3;1254:9
1211:8	1229:14;1242:1,9;	educational (1)	24;1156:12;1160:16;	entity (1)
disagreed (2)	1245:13;1256:19;	1157:14	1193:12;1233:22;	1174:13
1195:10;1196:24	1259:24;1260:3	effect (26)	1234:3;1259:11	environmental (7)
disassemble (1)	Door (1)	1116:24;1117:5;	else's (1)	1116:10;1157:18,21;
1180:20	1110:12	1118:24;1124:6,7;	1148:2	1158:20;1199:21;
discerning (1)	doubt (1)	1126:4;1127:24;	employed (2)	1221:4;1222:24
1129:9	1139:7	1129:20;1130:5,6;	1157:10,20	equipment (3)
discount (1)	down (29)	1132:19;1137:12,14;	employment (1)	1232:1,3;1257:10
1114:24	1103:16,18;1112:7;	1139:8;1140:9;1141:7,	1157:14	error (5)
discrepancy (3)	1147:4;1161:10,15,17;	9;1145:5,19;1146:3,4,	end (17)	1136:5;1137:18;
1119:23;1257:18,24	1162:20;1163:1;	5,5;1165:23;1194:7;	1106:13;1162:9,24;	1139:20;1237:12,18
discussion (3)	1170:14,22;1172:10,	1234:16	1170:22;1172:6;	escalate (1)
1197:24;1198:6,8	22;1177:11,13,22;	effects (4)	1177:19,19;1180:15;	1178:17

	T	1	T	Junuary 11, 2010
escalating (1)	1199:13,18,20;	excuse (2)	1119:15	1104:17;1105:3,14,
1196:20	1201:21;1204:24;	1121:2;1168:24	extent (1)	15;1116:10;1138:20;
escrow (1)	1207:23,24;1208:13;	executive (2)	1214:19	1165:6,21;1169:2;
1256:5	1234:20	1196:9;1239:15	extra (2)	1171:15;1231:11,12;
Especially (2)	evaluate (2)	Exhibit (44)	1150:2,9	1248:1
1127:16;1206:23	1158:3;1242:2	1106:24;1125:12;	extrapolate (1)	farm (27)
essence (1)	evaluated (2)	1158:9,11;1184:23;	1234:2	1136:20;1137:3;
1195:10	1119:13,14	1185:13;1187:1,4;	extreme (5)	1139:5;1147:21;
essentially (2)	evaluation (4)	1189:5;1192:13,15,16,	1130:22;1131:7,8,9;	1148:6;1158:8;
1182:5;1195:6	1158:5;1194:14;	18,20;1193:1;1195:21;	1132:21	1177:21;1179:11,20,
established (3)	1195:6;1196:13	1196:6;1197:24;	extremely (1)	22;1182:8;1189:1;
1205:6;1225:8,24	EVA's (2)	1200:1;1207:6,8,10,13,	1123:11	1192:15,19;1193:3,6;
estimate (56)	1192:13;1206:13	16;1208:3,22;1210:4,4,		1201:22;1204:6;
1139:18;1158:7;	even (8)	6;1213:7;1216:16;	${f F}$	1231:10;1236:7;
1160:4,8;1164:1;	1114:11;1139:7;	1218:6;1219:19;		1238:5;1244:3,4;
1165:11;1166:8,10,12;	1140:6;1144:23;	1222:23;1225:13;	facilities (4)	1245:4;1248:14;
1167:14,20;1169:17,	1209:6;1228:12;	1239:1,3,5,9;1241:9;	1129:18;1187:21;	1249:2,8
18;1180:19;1181:16;	1245:18;1247:2	1242:13;1247:19;	1229:23;1247:13	farmer (1)
1183:5,17,18;1186:13,	evening (6)	1250:21;1257:4	facility (3)	1216:8
13;1192:14;1195:11;	1103:10,15;1106:22;	exhibits (4)	1169:15;1202:11;	farming (1)
1197:5;1198:23;	1114:6;1137:1;	1180:18;1192:12;	1247:15	1216:6
1199:1;1203:4;1207:2,	1222:12	1207:21;1238:24	fact (8)	farms (9)
14;1209:24;1212:23;	event (2)	exist (2)	1165:20;1193:7;	1177:5;1179:15;
1213:3,9,19;1214:2;	1187:9;1229:3	1130:1;1257:21	1194:1;1196:12;	1203:23;1212:22;
1224:4;1225:3;	events (1)	expect (2)	1197:23;1250:4;	1225:10;1226:5;
1226:10,14,16;	1242:21	1187:6;1251:11	1252:14,22	1230:10;1248:11;
1228:24;1230:17,18;	everybody (6)	expectation (1)	factor (2)	1253:3
1231:13;1237:9,12,16;	1103:15;1113:15;	1148:7	1117:23;1146:7	fashion (1)
1239:17;1240:5,15;	1129:23;1154:22;	expeditiously (1)	factored (3)	1144:11
1243:22;1255:1,19,24;	1156:12;1260:12	1222:15	1166:8;1167:1;	fast (1)
1256:2;1258:19,21	everyone (1)	expense (2)	1258:21	1193:24
estimated (15)	1173:4	1170:10;1245:8	factors (2)	faster (1)
1105:5,5;1124:1;	evidence (4)	expensive (1)	1117:7,11	1190:19
1125:3;1137:17;	1144:9;1195:2;	1210:2	facts (1)	favor (2)
1164:14;1167:22;	1221:17;1222:18	experience (23)	1221:16	1163:7;1260:9
1175:10;1181:12;	exact (8)	1166:8;1187:11,14;	fail (1)	fdp (1)
1204:21;1226:8,12;	1135:6;1136:18;	1188:8,14,20;1197:9;	1243:9	1154:9
1239:18;1240:6;	1144:17;1145:9;	1204:6;1205:1,7,8,9;	failed (1)	feasibility (1)
1249:14	1148:3;1150:19;	1206:13;1212:22;	1246:12	1257:11
estimates (20)	1163:1;1209:15	1216:2,7;1230:9;	failure (2)	features (1)
1159:1;1161:23;	exactly (2)	1231:10;1235:19;	1245:5,16	1130:16
1164:3;1167:1; 1183:12;1194:3;	1139:4;1146:15 example (12)	1245:21;1248:3,7; 1255:12	failures (1) 1246:9	February (2)
	1106:4;1122:19;			1195:21;1247:21
1197:11;1201:4,17; 1203:11,20;1205:3,13,	1148:21;1150:23;	expert (4) 1154:24;1156:4,8,16	Fair (2) 1113:5;1259:2	feel (3) 1145:13;1169:8;
15;1206:20;1208:14;	1148.21,1130.23, 1153:24;1167:7;	expertise (2)	Fairbury (4)	1258:18
1217:19;1219:11;	1190:3;1202:6;	1172:19;1177:7	1103:4,6,8;1147:17	feeling (1)
1217.19,1219.11, 1229:20;1257:9	1230:12;1247:4;	explain (6)	fairly (1)	1189:7
estimating (2)	1250:12;1247.4;	1124:24;1125:6,7;	1172:14	feet (14)
1205:1;1206:7	examples (3)	1158:15;1166:21;	fall (4)	1140:20;1141:1;
estimation (1)	1140:5;1176:12;	1214:10	1136:22;1137:2;	1142:3,8,10;1143:1,1,
1160:8	1189:4	explanation (1)	1130.22,1137.2,	5;1144:4,5;1145:5,8,
et (18)	excavation (2)	1245:2	falling (1)	18;1172:4
1106:4;1117:4;	1213:12;1218:21	expressed (1)	1202:12	few (13)
1118:5,5,22;1119:16;	except (2)	1137:10	familiar (10)	1103:20;1105:12;
1120:23,23;1123:2,10,	1105:21;1226:20	extend (1)	1174:20,24;1189:7;	1114:7;1184:15;
10;1125:21;1126:19;	excerpt (3)	1251:9	1196:5,11;1221:2;	1189:1;1199:16;
1127:10;1131:6;	1192:18;1196:8;	extended (1)	1230:13,19,21;1232:24	1209:7;1215:17;
1132:4,4;1144:16	1239:10	1251:4	family (2)	1237:20,22,23;
Europe (1)	exclude (2)	extensive (4)	1152:16,17	1253:24;1257:1
1253:3	1123:7,8	1119:17;1204:24;	fantastic (1)	field (3)
EVA (12)	excluded (1)	1206:13;1212:21	1122:17	1200:14,18;1202:12
1158:7,24;1181:18;	1104:8	extensively (1)	far (13)	figure (11)
		- 0 ()	` '	J , ,

1114:18;1121:8;	First (25)	forward (4)	1209:22	1238:7;1239:11;
1125:24;1132:11;	1107:13,24;1114:7;	1113:23;1165:13;	gave (4)	1241:3,11;1243:15
1133:18,23;1134:9;	1119:8,10;1120:4;	1199:10;1259:10	1134:24;1218:5;	Griffin (1)
1136:19;1160:19;	1130:18;1144:14;	fossil-fired (1)	1223:2;1226:16	1155:18
1218:21;1236:4	1157:2;1170:3,4;	1159:1	general (8)	gross (2)
fill (6) 1219:12,22;1221:8,	1178:2;1180:24; 1186:7;1190:5;1196:8,	found (10) 1107:24;1130:12;	1106:15;1148:1; 1183:11;1205:1;	1228:7,9 group (22)
14;1222:2;1223:7	19;1204:7;1208:16;	1107.24,1130.12, 1144:15,17;1155:18;	1210:5;1254:9;	1119:6;1121:12,13,
fill-in (1)	1209:13;1210:1;	1163:20;1165:9;	1258:10,15	16,17,18,20,21;
1187:7	1224:17;1255:5,18;	1169:10;1200:3;	generally (12)	1122:19,20,21,23,24;
filtering (2)	1259:24	1206:6	1106:14;1128:2;	1123:12,14,17;1124:2;
1120:15,17	fit (1)	foundation (3)	1143:23,24;1164:6;	1135:9,9;1151:8,8;
final (11)	1248:7	1167:8,9;1182:22	1172:18;1183:13;	1222:17
1105:21;1106:3,6;	five (11)	foundations (2)	1211:2;1249:10,13;	groups (4)
1112:1;1127:11,13;	1123:22;1156:8;	1179:2,5	1251:10,23	1159:5,7,10;1160:9
1144:9;1169:20;	1157:17;1178:19;	founders (1)	generate (1)	Gruen (1)
1195:21;1196:3,23	1199:9;1210:13;	1199:12	1247:14	1259:16
finally (2)	1211:11,15;1212:11,	four (8)	generated (2)	guarantee (1) 1173:1
1111:11;1256:13 finance (1)	16;1250:5 fixed (2)	1109:8;1158:18; 1160:18;1164:23,24;	1251:15,21 generating (1)	guess (11)
1252:5	1116:18,24	1183:5;1232:1;	1245:13	1108:14;1109:11;
finances (1)	flicker (4)	1233:12	generation (2)	1113:16;1114:17;
1173:9	1151:22;1152:2,5;	frankly (1)	1187:22;1206:24	1121:8;1122:10;
financial (19)	1190:22	1209:6	gets (5)	1124:6;1156:2;
1159:7,10;1170:20;	flood (1)	free (1)	1137:15;1170:7;	1190:10;1198:11;
1173:14,20;1174:3;	1234:11	1184:6	1174:5;1211:1;	1245:12
1175:5,17;1176:14;	fluctuates (1)	front (8)	1251:18	guessing (1)
1198:15,18;1201:16;	1198:8	1106:18;1140:12,13;	Gibs (1)	1107:16
1245:11;1248:14,18;	flying (2)	1158:17;1189:5;	1102:22	guideline (1)
1255:15,23;1256:3,9	1259:24,24	1208:21;1239:6;	given (7)	1115:7
financially (1) 1174:4	focus (3) 1122:5;1209:6;	1253:9 fuel (3)	1112:7;1116:3; 1118:18;1138:21;	guys (7) 1103:17;1120:1;
financing (3)	1223:23	1159:4,5;1187:20	1141:23;1236:17;	1130:10;1142:18;
imancing (3)	1223.23	1137.4,5,1107.20		
1126:21:1248:4.19	focuses (1)	full (4)		
1126:21;1248:4,19 find (27)	focuses (1) 1187:16	full (4) 1148:18;1153:3;	1237:24	1146:23;1222:14;
1126:21;1248:4,19 find (27) 1107:8;1123:4,6,10;	1187:16	full (4) 1148:18;1153:3; 1171:17;1246:3	1237:24 giving (2)	
find (27) 1107:8;1123:4,6,10; 1126:4;1129:20;	1187:16 focussing (1) 1225:14	1148:18;1153:3; 1171:17;1246:3 fully (1)	1237:24 giving (2) 1171:20,22 glad (1)	1146:23;1222:14;
find (27) 1107:8;1123:4,6,10; 1126:4;1129:20; 1130:12;1135:6,11,13,	1187:16 focussing (1) 1225:14 following (4)	1148:18;1153:3; 1171:17;1246:3 fully (1) 1217:20	1237:24 giving (2) 1171:20,22 glad (1) 1250:19	1146:23;1222:14; 1233:23 H
find (27) 1107:8;1123:4,6,10; 1126:4;1129:20; 1130:12;1135:6,11,13, 15,22;1139:8;1140:5,6,	1187:16 focussing (1) 1225:14 following (4) 1178:16;1198:22;	1148:18;1153:3; 1171:17;1246:3 fully (1) 1217:20 function (1)	1237:24 giving (2) 1171:20,22 glad (1) 1250:19 glasses (1)	1146:23;1222:14; 1233:23 H half (18)
find (27) 1107:8;1123:4,6,10; 1126:4;1129:20; 1130:12;1135:6,11,13, 15,22;1139:8;1140:5,6, 8;1143:18;1150:19,21,	1187:16 focussing (1) 1225:14 following (4) 1178:16;1198:22; 1236:12;1259:7	1148:18;1153:3; 1171:17;1246:3 fully (1) 1217:20 function (1) 1211:21	1237:24 giving (2) 1171:20,22 glad (1) 1250:19 glasses (1) 1208:11	1146:23;1222:14; 1233:23 H half (18) 1104:13;1114:14;
find (27) 1107:8;1123:4,6,10; 1126:4;1129:20; 1130:12;1135:6,11,13, 15,22;1139:8;1140:5,6, 8;1143:18;1150:19,21, 21;1151:11;1184:5;	1187:16 focussing (1) 1225:14 following (4) 1178:16;1198:22; 1236:12;1259:7 follow-up (1)	1148:18;1153:3; 1171:17;1246:3 fully (1) 1217:20 function (1) 1211:21 functional (1)	1237:24 giving (2) 1171:20,22 glad (1) 1250:19 glasses (1) 1208:11 goes (8)	H half (18) 1104:13;1114:14; 1122:8,12,19;1150:24;
find (27) 1107:8;1123:4,6,10; 1126:4;1129:20; 1130:12;1135:6,11,13, 15,22;1139:8;1140:5,6, 8;1143:18;1150:19,21, 21;1151:11;1184:5; 1194:2;1212:1;	1187:16 focussing (1) 1225:14 following (4) 1178:16;1198:22; 1236:12;1259:7 follow-up (1) 1112:11	1148:18;1153:3; 1171:17;1246:3 fully (1) 1217:20 function (1) 1211:21 functional (1) 1123:9	1237:24 giving (2) 1171:20,22 glad (1) 1250:19 glasses (1) 1208:11 goes (8) 1106:17;1119:18;	H half (18) 1122:8,12,19;1150:24; 1151:1,5,9;1153:4,4;
find (27) 1107:8;1123:4,6,10; 1126:4;1129:20; 1130:12;1135:6,11,13, 15,22;1139:8;1140:5,6, 8;1143:18;1150:19,21, 21;1151:11;1184:5; 1194:2;1212:1; 1220:20;1233:15;	1187:16 focussing (1) 1225:14 following (4) 1178:16;1198:22; 1236:12;1259:7 follow-up (1) 1112:11 foot (5)	1148:18;1153:3; 1171:17;1246:3 fully (1) 1217:20 function (1) 1211:21 functional (1) 1123:9 fund (4)	1237:24 giving (2) 1171:20,22 glad (1) 1250:19 glasses (1) 1208:11 goes (8) 1106:17;1119:18; 1129:2;1142:7;	1146:23;1222:14; 1233:23 H half (18) 1104:13;1114:14; 1122:8,12,19;1150:24; 1151:1,5,9;1153:4,4; 1159:19;1169:1;
find (27) 1107:8;1123:4,6,10; 1126:4;1129:20; 1130:12;1135:6,11,13, 15,22;1139:8;1140:5,6, 8;1143:18;1150:19,21, 21;1151:11;1184:5; 1194:2;1212:1; 1220:20;1233:15; 1257:5	1187:16 focussing (1) 1225:14 following (4) 1178:16;1198:22; 1236:12;1259:7 follow-up (1) 1112:11 foot (5) 1132:2;1147:23,23,	1148:18;1153:3; 1171:17;1246:3 fully (1) 1217:20 function (1) 1211:21 functional (1) 1123:9 fund (4) 1171:5;1175:18,19;	1237:24 giving (2) 1171:20,22 glad (1) 1250:19 glasses (1) 1208:11 goes (8) 1106:17;1119:18; 1129:2;1142:7; 1147:18;1191:8;	H half (18) 1104:13;1114:14; 1122:8,12,19;1150:24; 1151:1,5,9;1153:4,4; 1159:19;1169:1; 1210:13;1211:11,15;
find (27) 1107:8;1123:4,6,10; 1126:4;1129:20; 1130:12;1135:6,11,13, 15,22;1139:8;1140:5,6, 8;1143:18;1150:19,21, 21;1151:11;1184:5; 1194:2;1212:1; 1220:20;1233:15; 1257:5 finding (3)	1187:16 focussing (1) 1225:14 following (4) 1178:16;1198:22; 1236:12;1259:7 follow-up (1) 1112:11 foot (5) 1132:2;1147:23,23, 24;1183:5	1148:18;1153:3; 1171:17;1246:3 fully (1) 1217:20 function (1) 1211:21 functional (1) 1123:9 fund (4) 1171:5;1175:18,19; 1245:11	1237:24 giving (2) 1171:20,22 glad (1) 1250:19 glasses (1) 1208:11 goes (8) 1106:17;1119:18; 1129:2;1142:7; 1147:18;1191:8; 1245:4;1254:7	H half (18) 1104:13;1114:14; 1122:8,12,19;1150:24; 1151:1,5,9;1153:4,4; 1159:19;1169:1; 1210:13;1211:11,15; 1212:11,16
find (27) 1107:8;1123:4,6,10; 1126:4;1129:20; 1130:12;1135:6,11,13, 15,22;1139:8;1140:5,6, 8;1143:18;1150:19,21, 21;1151:11;1184:5; 1194:2;1212:1; 1220:20;1233:15; 1257:5	1187:16 focussing (1) 1225:14 following (4) 1178:16;1198:22; 1236:12;1259:7 follow-up (1) 1112:11 foot (5) 1132:2;1147:23,23,	1148:18;1153:3; 1171:17;1246:3 fully (1) 1217:20 function (1) 1211:21 functional (1) 1123:9 fund (4) 1171:5;1175:18,19;	1237:24 giving (2) 1171:20,22 glad (1) 1250:19 glasses (1) 1208:11 goes (8) 1106:17;1119:18; 1129:2;1142:7; 1147:18;1191:8;	H half (18) 1104:13;1114:14; 1122:8,12,19;1150:24; 1151:1,5,9;1153:4,4; 1159:19;1169:1; 1210:13;1211:11,15;
find (27) 1107:8;1123:4,6,10; 1126:4;1129:20; 1130:12;1135:6,11,13, 15,22;1139:8;1140:5,6, 8;1143:18;1150:19,21, 21;1151:11;1184:5; 1194:2;1212:1; 1220:20;1233:15; 1257:5 finding (3) 1135:14;1152:11; 1163:24 fine (4)	1187:16 focussing (1) 1225:14 following (4) 1178:16;1198:22; 1236:12;1259:7 follow-up (1) 1112:11 foot (5) 1132:2;1147:23,23, 24;1183:5 footage (4) 1116:9;1120:23; 1121:24;1132:1	1148:18;1153:3; 1171:17;1246:3 fully (1) 1217:20 function (1) 1211:21 functional (1) 1123:9 fund (4) 1171:5;1175:18,19; 1245:11 funded (1) 1175:23 furnace (1)	1237:24 giving (2) 1171:20,22 glad (1) 1250:19 glasses (1) 1208:11 goes (8) 1106:17;1119:18; 1129:2;1142:7; 1147:18;1191:8; 1245:4;1254:7 go-getter (1) 1188:10 good (12)	H half (18)
find (27) 1107:8;1123:4,6,10; 1126:4;1129:20; 1130:12;1135:6,11,13, 15,22;1139:8;1140:5,6, 8;1143:18;1150:19,21, 21;1151:11;1184:5; 1194:2;1212:1; 1220:20;1233:15; 1257:5 finding (3) 1135:14;1152:11; 1163:24 fine (4) 1115:15,16;1147:7;	1187:16 focussing (1) 1225:14 following (4) 1178:16;1198:22; 1236:12;1259:7 follow-up (1) 1112:11 foot (5) 1132:2;1147:23,23, 24;1183:5 footage (4) 1116:9;1120:23; 1121:24;1132:1 footprint (1)	1148:18;1153:3; 1171:17;1246:3 fully (1) 1217:20 function (1) 1211:21 functional (1) 1123:9 fund (4) 1171:5;1175:18,19; 1245:11 funded (1) 1175:23 furnace (1) 1235:17	1237:24 giving (2) 1171:20,22 glad (1) 1250:19 glasses (1) 1208:11 goes (8) 1106:17;1119:18; 1129:2;1142:7; 1147:18;1191:8; 1245:4;1254:7 go-getter (1) 1188:10 good (12) 1113:13,14;1114:6;	1146:23;1222:14; 1233:23 H half (18) 1104:13;1114:14; 1122:8,12,19;1150:24; 1151:1,5,9;1153:4,4; 1159:19;1169:1; 1210:13;1211:11,15; 1212:11,16 hand (4) 1157:2;1186:24; 1207:1;1250:20 Handbook (1)
find (27) 1107:8;1123:4,6,10; 1126:4;1129:20; 1130:12;1135:6,11,13, 15,22;1139:8;1140:5,6, 8;1143:18;1150:19,21, 21;1151:11;1184:5; 1194:2;1212:1; 1220:20;1233:15; 1257:5 finding (3) 1135:14;1152:11; 1163:24 fine (4) 1115:15,16;1147:7; 1199:15	1187:16 focussing (1) 1225:14 following (4) 1178:16;1198:22; 1236:12;1259:7 follow-up (1) 1112:11 foot (5) 1132:2;1147:23,23, 24;1183:5 footage (4) 1116:9;1120:23; 1121:24;1132:1 footprint (1) 1136:21	1148:18;1153:3; 1171:17;1246:3 fully (1) 1217:20 function (1) 1211:21 functional (1) 1123:9 fund (4) 1171:5;1175:18,19; 1245:11 funded (1) 1175:23 furnace (1) 1235:17 further (1)	1237:24 giving (2) 1171:20,22 glad (1) 1250:19 glasses (1) 1208:11 goes (8) 1106:17;1119:18; 1129:2;1142:7; 1147:18;1191:8; 1245:4;1254:7 go-getter (1) 1188:10 good (12) 1113:13,14;1114:6; 1138:17;1154:21;	1146:23;1222:14; 1233:23 H half (18) 1104:13;1114:14; 1122:8,12,19;1150:24; 1151:1,5,9;1153:4,4; 1159:19;1169:1; 1210:13;1211:11,15; 1212:11,16 hand (4) 1157:2;1186:24; 1207:1;1250:20 Handbook (1) 1207:7
find (27) 1107:8;1123:4,6,10; 1126:4;1129:20; 1130:12;1135:6,11,13, 15,22;1139:8;1140:5,6, 8;1143:18;1150:19,21, 21;1151:11;1184:5; 1194:2;1212:1; 1220:20;1233:15; 1257:5 finding (3) 1135:14;1152:11; 1163:24 fine (4) 1115:15,16;1147:7; 1199:15 finish (4)	1187:16 focussing (1) 1225:14 following (4) 1178:16;1198:22; 1236:12;1259:7 follow-up (1) 1112:11 foot (5) 1132:2;1147:23,23, 24;1183:5 footage (4) 1116:9;1120:23; 1121:24;1132:1 footprint (1) 1136:21 forget (1)	1148:18;1153:3; 1171:17;1246:3 fully (1) 1217:20 function (1) 1211:21 functional (1) 1123:9 fund (4) 1171:5;1175:18,19; 1245:11 funded (1) 1175:23 furnace (1) 1235:17	1237:24 giving (2) 1171:20,22 glad (1) 1250:19 glasses (1) 1208:11 goes (8) 1106:17;1119:18; 1129:2;1142:7; 1147:18;1191:8; 1245:4;1254:7 go-getter (1) 1188:10 good (12) 1113:13,14;1114:6; 1138:17;1154:21; 1156:2;1177:23;	H half (18)
find (27) 1107:8;1123:4,6,10; 1126:4;1129:20; 1130:12;1135:6,11,13, 15,22;1139:8;1140:5,6, 8;1143:18;1150:19,21, 21;1151:11;1184:5; 1194:2;1212:1; 1220:20;1233:15; 1257:5 finding (3) 1135:14;1152:11; 1163:24 fine (4) 1115:15,16;1147:7; 1199:15 finish (4) 1215:14,20;1233:18,	1187:16 focussing (1) 1225:14 following (4) 1178:16;1198:22; 1236:12;1259:7 follow-up (1) 1112:11 foot (5) 1132:2;1147:23,23, 24;1183:5 footage (4) 1116:9;1120:23; 1121:24;1132:1 footprint (1) 1136:21 forget (1) 1134:3	1148:18;1153:3; 1171:17;1246:3 fully (1) 1217:20 function (1) 1211:21 functional (1) 1123:9 fund (4) 1171:5;1175:18,19; 1245:11 funded (1) 1175:23 furnace (1) 1235:17 further (1) 1176:20	1237:24 giving (2) 1171:20,22 glad (1) 1250:19 glasses (1) 1208:11 goes (8) 1106:17;1119:18; 1129:2;1142:7; 1147:18;1191:8; 1245:4;1254:7 go-getter (1) 1188:10 good (12) 1113:13,14;1114:6; 1138:17;1154:21; 1156:2;1177:23; 1178:14;1208:11;	H half (18) 1104:13;1114:14; 1122:8,12,19;1150:24; 1151:1,5,9;1153:4,4; 1159:19;1169:1; 1210:13;1211:11,15; 1212:11,16 hand (4) 1157:2;1186:24; 1207:1;1250:20 Handbook (1) 1207:7 handed (8) 1158:10;1192:24;
find (27) 1107:8;1123:4,6,10; 1126:4;1129:20; 1130:12;1135:6,11,13, 15,22;1139:8;1140:5,6, 8;1143:18;1150:19,21, 21;1151:11;1184:5; 1194:2;1212:1; 1220:20;1233:15; 1257:5 finding (3) 1135:14;1152:11; 1163:24 fine (4) 1115:15,16;1147:7; 1199:15 finish (4) 1215:14,20;1233:18, 24	1187:16 focussing (1) 1225:14 following (4) 1178:16;1198:22; 1236:12;1259:7 follow-up (1) 1112:11 foot (5) 1132:2;1147:23,23, 24;1183:5 footage (4) 1116:9;1120:23; 1121:24;1132:1 footprint (1) 1136:21 forget (1) 1134:3 form (4)	1148:18;1153:3; 1171:17;1246:3 fully (1) 1217:20 function (1) 1211:21 functional (1) 1123:9 fund (4) 1171:5;1175:18,19; 1245:11 funded (1) 1175:23 furnace (1) 1235:17 further (1)	1237:24 giving (2) 1171:20,22 glad (1) 1250:19 glasses (1) 1208:11 goes (8) 1106:17;1119:18; 1129:2;1142:7; 1147:18;1191:8; 1245:4;1254:7 go-getter (1) 1188:10 good (12) 1113:13,14;1114:6; 1138:17;1154:21; 1156:2;1177:23; 1178:14;1208:11; 1227:6;1231:17;	H half (18) 1104:13;1114:14; 1122:8,12,19;1150:24; 1151:1,5,9;1153:4,4; 1159:19;1169:1; 1210:13;1211:11,15; 1212:11,16 hand (4) 1157:2;1186:24; 1207:1;1250:20 Handbook (1) 1207:7 handed (8) 1158:10;1192:24; 1195:19;1196:5;
find (27) 1107:8;1123:4,6,10; 1126:4;1129:20; 1130:12;1135:6,11,13, 15,22;1139:8;1140:5,6, 8;1143:18;1150:19,21, 21;1151:11;1184:5; 1194:2;1212:1; 1220:20;1233:15; 1257:5 finding (3) 1135:14;1152:11; 1163:24 fine (4) 1115:15,16;1147:7; 1199:15 finish (4) 1215:14,20;1233:18, 24 finished (1)	1187:16 focussing (1) 1225:14 following (4) 1178:16;1198:22; 1236:12;1259:7 follow-up (1) 1112:11 foot (5) 1132:2;1147:23,23, 24;1183:5 footage (4) 1116:9;1120:23; 1121:24;1132:1 footprint (1) 1136:21 forget (1) 1134:3 form (4) 1123:10;1126:9;	1148:18;1153:3; 1171:17;1246:3 fully (1) 1217:20 function (1) 1211:21 functional (1) 1123:9 fund (4) 1171:5;1175:18,19; 1245:11 funded (1) 1175:23 furnace (1) 1235:17 further (1) 1176:20	1237:24 giving (2) 1171:20,22 glad (1) 1250:19 glasses (1) 1208:11 goes (8) 1106:17;1119:18; 1129:2;1142:7; 1147:18;1191:8; 1245:4;1254:7 go-getter (1) 1188:10 good (12) 1113:13,14;1114:6; 1138:17;1154:21; 1156:2;1177:23; 1178:14;1208:11; 1227:6;1231:17; 1260:2	H half (18) 1104:13;1114:14; 1122:8,12,19;1150:24; 1151:1,5,9;1153:4,4; 1159:19;1169:1; 1210:13;1211:11,15; 1212:11,16 hand (4) 1157:2;1186:24; 1207:1;1250:20 Handbook (1) 1207:7 handed (8) 1158:10;1192:24; 1195:19;1196:5; 1200:1;1222:22;
find (27) 1107:8;1123:4,6,10; 1126:4;1129:20; 1130:12;1135:6,11,13, 15,22;1139:8;1140:5,6, 8;1143:18;1150:19,21, 21;1151:11;1184:5; 1194:2;1212:1; 1220:20;1233:15; 1257:5 finding (3) 1135:14;1152:11; 1163:24 fine (4) 1115:15,16;1147:7; 1199:15 finish (4) 1215:14,20;1233:18, 24 finished (1) 1233:21	1187:16 focussing (1) 1225:14 following (4) 1178:16;1198:22; 1236:12;1259:7 follow-up (1) 1112:11 foot (5) 1132:2;1147:23,23, 24;1183:5 footage (4) 1116:9;1120:23; 1121:24;1132:1 footprint (1) 1136:21 forget (1) 1134:3 form (4) 1123:10;1126:9; 1247:1;1256:4	1148:18;1153:3; 1171:17;1246:3 fully (1) 1217:20 function (1) 1211:21 functional (1) 1123:9 fund (4) 1171:5;1175:18,19; 1245:11 funded (1) 1175:23 furnace (1) 1235:17 further (1) 1176:20 G G&D (10)	1237:24 giving (2) 1171:20,22 glad (1) 1250:19 glasses (1) 1208:11 goes (8) 1106:17;1119:18; 1129:2;1142:7; 1147:18;1191:8; 1245:4;1254:7 go-getter (1) 1188:10 good (12) 1113:13,14;1114:6; 1138:17;1154:21; 1156:2;1177:23; 1178:14;1208:11; 1227:6;1231:17; 1260:2 Gotcha (1)	H half (18) 1104:13;1114:14; 1122:8,12,19;1150:24; 1151:1,5,9;1153:4,4; 1159:19;1169:1; 1210:13;1211:11,15; 1212:11,16 hand (4) 1157:2;1186:24; 1207:1;1250:20 Handbook (1) 1207:7 handed (8) 1158:10;1192:24; 1195:19;1196:5; 1200:1;1222:22; 1239:1;1241:8
find (27) 1107:8;1123:4,6,10; 1126:4;1129:20; 1130:12;1135:6,11,13, 15,22;1139:8;1140:5,6, 8;1143:18;1150:19,21, 21;1151:11;1184:5; 1194:2;1212:1; 1220:20;1233:15; 1257:5 finding (3) 1135:14;1152:11; 1163:24 fine (4) 1115:15,16;1147:7; 1199:15 finish (4) 1215:14,20;1233:18, 24 finished (1)	1187:16 focussing (1) 1225:14 following (4) 1178:16;1198:22; 1236:12;1259:7 follow-up (1) 1112:11 foot (5) 1132:2;1147:23,23, 24;1183:5 footage (4) 1116:9;1120:23; 1121:24;1132:1 footprint (1) 1136:21 forget (1) 1134:3 form (4) 1123:10;1126:9;	1148:18;1153:3; 1171:17;1246:3 fully (1) 1217:20 function (1) 1211:21 functional (1) 1123:9 fund (4) 1171:5;1175:18,19; 1245:11 funded (1) 1175:23 furnace (1) 1235:17 further (1) 1176:20 G G&D (10) 1160:21;1165:2;	1237:24 giving (2) 1171:20,22 glad (1) 1250:19 glasses (1) 1208:11 goes (8) 1106:17;1119:18; 1129:2;1142:7; 1147:18;1191:8; 1245:4;1254:7 go-getter (1) 1188:10 good (12) 1113:13,14;1114:6; 1138:17;1154:21; 1156:2;1177:23; 1178:14;1208:11; 1227:6;1231:17; 1260:2 Gotcha (1) 1146:16	H half (18) 1104:13;1114:14; 1122:8,12,19;1150:24; 1151:1,5,9;1153:4,4; 1159:19;1169:1; 1210:13;1211:11,15; 1212:11,16 hand (4) 1157:2;1186:24; 1207:1;1250:20 Handbook (1) 1207:7 handed (8) 1158:10;1192:24; 1195:19;1196:5; 1200:1;1222:22; 1239:1;1241:8 handing (2)
find (27) 1107:8;1123:4,6,10; 1126:4;1129:20; 1130:12;1135:6,11,13, 15,22;1139:8;1140:5,6, 8;1143:18;1150:19,21, 21;1151:11;1184:5; 1194:2;1212:1; 1220:20;1233:15; 1257:5 finding (3) 1135:14;1152:11; 1163:24 fine (4) 1115:15,16;1147:7; 1199:15 finish (4) 1215:14,20;1233:18, 24 finished (1) 1233:21 finishing (1)	1187:16 focussing (1) 1225:14 following (4) 1178:16;1198:22; 1236:12;1259:7 follow-up (1) 1112:11 foot (5) 1132:2;1147:23,23, 24;1183:5 footage (4) 1116:9;1120:23; 1121:24;1132:1 footprint (1) 1136:21 forget (1) 1134:3 form (4) 1123:10;1126:9; 1247:1;1256:4 format (1)	1148:18;1153:3; 1171:17;1246:3 fully (1) 1217:20 function (1) 1211:21 functional (1) 1123:9 fund (4) 1171:5;1175:18,19; 1245:11 funded (1) 1175:23 furnace (1) 1235:17 further (1) 1176:20 G G&D (10)	1237:24 giving (2) 1171:20,22 glad (1) 1250:19 glasses (1) 1208:11 goes (8) 1106:17;1119:18; 1129:2;1142:7; 1147:18;1191:8; 1245:4;1254:7 go-getter (1) 1188:10 good (12) 1113:13,14;1114:6; 1138:17;1154:21; 1156:2;1177:23; 1178:14;1208:11; 1227:6;1231:17; 1260:2 Gotcha (1)	H half (18) 1104:13;1114:14; 1122:8,12,19;1150:24; 1151:1,5,9;1153:4,4; 1159:19;1169:1; 1210:13;1211:11,15; 1212:11,16 hand (4) 1157:2;1186:24; 1207:1;1250:20 Handbook (1) 1207:7 handed (8) 1158:10;1192:24; 1195:19;1196:5; 1200:1;1222:22; 1239:1;1241:8
find (27) 1107:8;1123:4,6,10; 1126:4;1129:20; 1130:12;1135:6,11,13, 15,22;1139:8;1140:5,6, 8;1143:18;1150:19,21, 21;1151:11;1184:5; 1194:2;1212:1; 1220:20;1233:15; 1257:5 finding (3) 1135:14;1152:11; 1163:24 fine (4) 1115:15,16;1147:7; 1199:15 finish (4) 1215:14,20;1233:18, 24 finished (1) 1233:21 finishing (1) 1223:21	1187:16 focussing (1) 1225:14 following (4) 1178:16;1198:22; 1236:12;1259:7 follow-up (1) 1112:11 foot (5) 1132:2;1147:23,23, 24;1183:5 footage (4) 1116:9;1120:23; 1121:24;1132:1 footprint (1) 1136:21 forget (1) 1134:3 form (4) 1123:10;1126:9; 1247:1;1256:4 format (1) 1103:12	1148:18;1153:3; 1171:17;1246:3 fully (1) 1217:20 function (1) 1211:21 functional (1) 1123:9 fund (4) 1171:5;1175:18,19; 1245:11 funded (1) 1175:23 furnace (1) 1235:17 further (1) 1176:20 G G&D (10) 1160:21;1165:2; 1232:10,12,19;1233:8,	1237:24 giving (2) 1171:20,22 glad (1) 1250:19 glasses (1) 1208:11 goes (8) 1106:17;1119:18; 1129:2;1142:7; 1147:18;1191:8; 1245:4;1254:7 go-getter (1) 1188:10 good (12) 1113:13,14;1114:6; 1138:17;1154:21; 1156:2;1177:23; 1178:14;1208:11; 1227:6;1231:17; 1260:2 Gotcha (1) 1146:16 government (2)	H half (18) 1104:13;1114:14; 1122:8,12,19;1150:24; 1151:1,5,9;1153:4,4; 1159:19;1169:1; 1210:13;1211:11,15; 1212:11,16 hand (4) 1157:2;1186:24; 1207:1;1250:20 Handbook (1) 1207:7 handed (8) 1158:10;1192:24; 1195:19;1196:5; 1200:1;1222:22; 1239:1;1241:8 handing (2) 1192:12;1206:21
find (27) 1107:8;1123:4,6,10; 1126:4;1129:20; 1130:12;1135:6,11,13, 15,22;1139:8;1140:5,6, 8;1143:18;1150:19,21, 21;1151:11;1184:5; 1194:2;1212:1; 1220:20;1233:15; 1257:5 finding (3) 1135:14;1152:11; 1163:24 fine (4) 1115:15,16;1147:7; 1199:15 finish (4) 1215:14,20;1233:18, 24 finished (1) 1233:21 finishing (1) 1223:21 firm (9) 1157:19;1166:11,11; 1174:4;1185:7,8;	1187:16 focussing (1) 1225:14 following (4) 1178:16;1198:22; 1236:12;1259:7 follow-up (1) 1112:11 foot (5) 1132:2;1147:23,23, 24;1183:5 footage (4) 1116:9;1120:23; 1121:24;1132:1 footprint (1) 1136:21 forget (1) 1134:3 form (4) 1123:10;1126:9; 1247:1;1256:4 format (1) 1103:12 former (1) 1214:3 forms (1)	1148:18;1153:3; 1171:17;1246:3 fully (1) 1217:20 function (1) 1211:21 functional (1) 1123:9 fund (4) 1171:5;1175:18,19; 1245:11 funded (1) 1175:23 furnace (1) 1235:17 further (1) 1176:20 G G&D (10) 1160:21;1165:2; 1232:10,12,19;1233:8, 21;1234:1,2,2 gain (2) 1148:2;1168:11	1237:24 giving (2) 1171:20,22 glad (1) 1250:19 glasses (1) 1208:11 goes (8) 1106:17;1119:18; 1129:2;1142:7; 1147:18;1191:8; 1245:4;1254:7 go-getter (1) 1188:10 good (12) 1113:13,14;1114:6; 1138:17;1154:21; 1156:2;1177:23; 1178:14;1208:11; 1227:6;1231:17; 1260:2 Gotcha (1) 1146:16 government (2) 1184:11,11 grab (1) 1106:20	H half (18)
find (27) 1107:8;1123:4,6,10; 1126:4;1129:20; 1130:12;1135:6,11,13, 15,22;1139:8;1140:5,6, 8;1143:18;1150:19,21, 21;1151:11;1184:5; 1194:2;1212:1; 1220:20;1233:15; 1257:5 finding (3) 1135:14;1152:11; 1163:24 fine (4) 1115:15,16;1147:7; 1199:15 finish (4) 1215:14,20;1233:18, 24 finished (1) 1233:21 finishing (1) 1223:21 firm (9) 1157:19;1166:11,11; 1174:4;1185:7,8; 1199:18,20,22	1187:16 focussing (1) 1225:14 following (4) 1178:16;1198:22; 1236:12;1259:7 follow-up (1) 1112:11 foot (5) 1132:2;1147:23,23, 24;1183:5 footage (4) 1116:9;1120:23; 1121:24;1132:1 footprint (1) 1136:21 forget (1) 1134:3 form (4) 1123:10;1126:9; 1247:1;1256:4 format (1) 1103:12 former (1) 1214:3 forms (1) 1256:8	1148:18;1153:3; 1171:17;1246:3 fully (1) 1217:20 function (1) 1211:21 functional (1) 1123:9 fund (4) 1171:5;1175:18,19; 1245:11 funded (1) 1175:23 furnace (1) 1235:17 further (1) 1176:20 G G&D (10) 1160:21;1165:2; 1232:10,12,19;1233:8, 21;1234:1,2,2 gain (2) 1148:2;1168:11 gap (1)	1237:24 giving (2) 1171:20,22 glad (1) 1250:19 glasses (1) 1208:11 goes (8) 1106:17;1119:18; 1129:2;1142:7; 1147:18;1191:8; 1245:4;1254:7 go-getter (1) 1188:10 good (12) 1113:13,14;1114:6; 1138:17;1154:21; 1156:2;1177:23; 1178:14;1208:11; 1227:6;1231:17; 1260:2 Gotcha (1) 1146:16 government (2) 1184:11,11 grab (1) 1106:20 grantee (1)	H half (18)
find (27) 1107:8;1123:4,6,10; 1126:4;1129:20; 1130:12;1135:6,11,13, 15,22;1139:8;1140:5,6, 8;1143:18;1150:19,21, 21;1151:11;1184:5; 1194:2;1212:1; 1220:20;1233:15; 1257:5 finding (3) 1135:14;1152:11; 1163:24 fine (4) 1115:15,16;1147:7; 1199:15 finish (4) 1215:14,20;1233:18, 24 finished (1) 1233:21 finishing (1) 1223:21 firm (9) 1157:19;1166:11,11; 1174:4;1185:7,8; 1199:18,20,22 firms (1)	1187:16 focussing (1) 1225:14 following (4) 1178:16;1198:22; 1236:12;1259:7 follow-up (1) 1112:11 foot (5) 1132:2;1147:23,23, 24;1183:5 footage (4) 1116:9;1120:23; 1121:24;1132:1 footprint (1) 1136:21 forget (1) 1134:3 form (4) 1123:10;1126:9; 1247:1;1256:4 format (1) 1103:12 former (1) 1214:3 forms (1) 1256:8 fortunate (1)	1148:18;1153:3; 1171:17;1246:3 fully (1) 1217:20 function (1) 1211:21 functional (1) 1123:9 fund (4) 1171:5;1175:18,19; 1245:11 funded (1) 1175:23 furnace (1) 1235:17 further (1) 1176:20 G G&D (10) 1160:21;1165:2; 1232:10,12,19;1233:8, 21;1234:1,2,2 gain (2) 1148:2;1168:11 gap (1) 1187:3	1237:24 giving (2) 1171:20,22 glad (1) 1250:19 glasses (1) 1208:11 goes (8) 1106:17;1119:18; 1129:2;1142:7; 1147:18;1191:8; 1245:4;1254:7 go-getter (1) 1188:10 good (12) 1113:13,14;1114:6; 1138:17;1154:21; 1156:2;1177:23; 1178:14;1208:11; 1227:6;1231:17; 1260:2 Gotcha (1) 1146:16 government (2) 1184:11,11 grab (1) 1106:20 grantee (1) 1251:7	H half (18)
find (27) 1107:8;1123:4,6,10; 1126:4;1129:20; 1130:12;1135:6,11,13, 15,22;1139:8;1140:5,6, 8;1143:18;1150:19,21, 21;1151:11;1184:5; 1194:2;1212:1; 1220:20;1233:15; 1257:5 finding (3) 1135:14;1152:11; 1163:24 fine (4) 1115:15,16;1147:7; 1199:15 finish (4) 1215:14,20;1233:18, 24 finished (1) 1233:21 finishing (1) 1223:21 firm (9) 1157:19;1166:11,11; 1174:4;1185:7,8; 1199:18,20,22	1187:16 focussing (1) 1225:14 following (4) 1178:16;1198:22; 1236:12;1259:7 follow-up (1) 1112:11 foot (5) 1132:2;1147:23,23, 24;1183:5 footage (4) 1116:9;1120:23; 1121:24;1132:1 footprint (1) 1136:21 forget (1) 1134:3 form (4) 1123:10;1126:9; 1247:1;1256:4 format (1) 1103:12 former (1) 1214:3 forms (1) 1256:8	1148:18;1153:3; 1171:17;1246:3 fully (1) 1217:20 function (1) 1211:21 functional (1) 1123:9 fund (4) 1171:5;1175:18,19; 1245:11 funded (1) 1175:23 furnace (1) 1235:17 further (1) 1176:20 G G&D (10) 1160:21;1165:2; 1232:10,12,19;1233:8, 21;1234:1,2,2 gain (2) 1148:2;1168:11 gap (1)	1237:24 giving (2) 1171:20,22 glad (1) 1250:19 glasses (1) 1208:11 goes (8) 1106:17;1119:18; 1129:2;1142:7; 1147:18;1191:8; 1245:4;1254:7 go-getter (1) 1188:10 good (12) 1113:13,14;1114:6; 1138:17;1154:21; 1156:2;1177:23; 1178:14;1208:11; 1227:6;1231:17; 1260:2 Gotcha (1) 1146:16 government (2) 1184:11,11 grab (1) 1106:20 grantee (1)	H half (18)

Hankard (5)	1176:20;1177:3;	1128:11,12;1129:1,9;	idea (5)	inaccurate (2)
1155:11,15,16,23;	1184:14,19;1185:5;	1131:8,23;1132:2;	1113:4;1183:20;	1213:22,24
1259:20	1187:9;1189:21;	1133:4,5,7,9,11,12;	1187:5;1229:16;	inch (1)
			· · · · · · · · · · · · · · · · · · ·	
happen (5)	1192:16,18,24;	1134:6;1136:20,22;	1247:2	1183:2
1165:12;1172:5,24;	1194:23;1195:20;	1138:14,19,20,22;	ideas (1)	include (10)
1173:19;1243:1	1198:9;1207:12;	1139:5,9,11;1140:5,23;	1177:8	1107:1;1123:7,8;
happening (3)	1215:19;1223:21;	1144:10;1145:2,10,13,	identical (1)	1126:18;1151:21;
1115:1;1123:19;	1233:16;1239:9	17;1152:16,17	1154:7	1163:22;1167:16;
1182:11	H-E-W-S-O-N (1)		identified (3)	1187:20;1200:21;
		hope (1)		
happens (3)	1157:7	1107:18	1161:13;1189:2;	1224:11
1120:15;1123:1;	high (2)	hopefully (3)	1194:13	included (5)
1199:22	1170:2;1238:2	1114:22;1196:4;	identifies (1)	1105:20;1116:7;
happy (1)	higher (7)	1222:16	1185:15	1183:16,18;1239:15
1143:20	1127:20;1161:19;	hour (1)	identify (4)	includes (1)
hard (6)	1163:16;1166:14;	1229:11	1121:23;1122:3,5;	1200:23
1125:22;1135:14;	1180:23;1181:15;	hours (10)	1207:18	including (3)
1136:6;1163:9;	1183:3	1167:8;1211:18,20;	II (2)	1158:23;1200:7;
1182:12;1188:3	highest (2)	1212:19;1229:11,12,	1108:21;1109:7	1254:11
HDR (1)	1111:13;1232:11	18;1248:11;1253:18,	Illinois (18)	income (1)
		23		
1198:14	highly (3)		1110:1;1113:1,2;	1245:13
head (1)	1123:2;1174:3,3	house (10)	1128:11;1134:20;	incorporate (1)
1110:11	highway (2)	1146:11;1147:16,19;	1158:3;1178:9;	1181:5
heard (4)	1141:6;1146:6	1148:1;1149:8,12,16;	1192:21;1221:4;	Incorporated (2)
1137:9,21;1221:17;	highways (1)	1151:22;1152:2,3	1222:24;1223:6;	1157:12;1231:18
1230:23	1146:2	housekeeping (1)	1225:5,10;1230:15;	incorrect (2)
				` /
hearing (3)	Hinman (2)	1259:4	1231:6;1232:10;	1226:23;1241:6
1102:6;1163:9;	1130:7,12	houses (1)	1239:4;1253:23	increase (2)
1192:19	hired (4)	1147:20	imagine (8)	1150:3;1161:18
hearings (2)	1185:6,7;1186:17;	housing (4)	1159:19;1161:23;	increased (1)
1159:13,18	1231:15	1114:18,20,21;	1165:17,18;1182:17;	1114:21
heavy (1)	history (3)	1117:3	1229:9;1252:4;	Indeed (2)
1232:1	1178:1,6;1226:5	Howard (3)	1253:24	1187:12;1198:20
hedonic (13)	hit (1)	1102:18;1108:4,17	1253:24 imagined (1)	independent (8)
hedonic (13) 1116:5;1125:1,3;	hit (1) 1165:24	1102:18;1108:4,17 how's (1)	imagined (1) 1194:11	independent (8) 1131:4;1132:1;
hedonic (13) 1116:5;1125:1,3; 1127:23;1130:15,23;	hit (1) 1165:24 Hoen's (1)	1102:18;1108:4,17 how's (1) 1150:18	imagined (1) 1194:11 immediate (1)	independent (8) 1131:4;1132:1; 1159:21;1186:8,11,17;
hedonic (13) 1116:5;1125:1,3; 1127:23;1130:15,23; 1133:19,22;1134:17;	hit (1) 1165:24 Hoen's (1) 1191:20	1102:18;1108:4,17 how's (1) 1150:18 hub (18)	imagined (1) 1194:11 immediate (1) 1258:6	independent (8) 1131:4;1132:1; 1159:21;1186:8,11,17; 1231:15;1252:23
hedonic (13) 1116:5;1125:1,3; 1127:23;1130:15,23; 1133:19,22;1134:17; 1143:7;1149:4,17;	hit (1) 1165:24 Hoen's (1) 1191:20 hold (3)	1102:18;1108:4,17 how's (1) 1150:18 hub (18) 1107:13,18;1108:1,	imagined (1) 1194:11 immediate (1) 1258:6 impact (8)	independent (8) 1131:4;1132:1; 1159:21;1186:8,11,17; 1231:15;1252:23 indicate (1)
hedonic (13) 1116:5;1125:1,3; 1127:23;1130:15,23; 1133:19,22;1134:17; 1143:7;1149:4,17; 1191:17	hit (1) 1165:24 Hoen's (1) 1191:20 hold (3) 1136:23,24;1138:10	1102:18;1108:4,17 how's (1) 1150:18 hub (18) 1107:13,18;1108:1, 6,15;1109:4,8,14,15,	imagined (1) 1194:11 immediate (1) 1258:6 impact (8) 1106:2,6;1143:5,24;	independent (8) 1131:4;1132:1; 1159:21;1186:8,11,17; 1231:15;1252:23 indicate (1) 1208:13
hedonic (13) 1116:5;1125:1,3; 1127:23;1130:15,23; 1133:19,22;1134:17; 1143:7;1149:4,17; 1191:17 height (13)	hit (1) 1165:24 Hoen's (1) 1191:20 hold (3) 1136:23,24;1138:10 holding (3)	1102:18;1108:4,17 how's (1) 1150:18 hub (18) 1107:13,18;1108:1, 6,15;1109:4,8,14,15, 21;1110:1,5,17;1111:2,	imagined (1) 1194:11 immediate (1) 1258:6 impact (8) 1106:2,6;1143:5,24; 1165:16;1182:7;	independent (8) 1131:4;1132:1; 1159:21;1186:8,11,17; 1231:15;1252:23 indicate (1) 1208:13 indicated (2)
hedonic (13) 1116:5;1125:1,3; 1127:23;1130:15,23; 1133:19,22;1134:17; 1143:7;1149:4,17; 1191:17 height (13)	hit (1) 1165:24 Hoen's (1) 1191:20 hold (3) 1136:23,24;1138:10	1102:18;1108:4,17 how's (1) 1150:18 hub (18) 1107:13,18;1108:1, 6,15;1109:4,8,14,15,	imagined (1) 1194:11 immediate (1) 1258:6 impact (8) 1106:2,6;1143:5,24;	independent (8) 1131:4;1132:1; 1159:21;1186:8,11,17; 1231:15;1252:23 indicate (1) 1208:13
hedonic (13) 1116:5;1125:1,3; 1127:23;1130:15,23; 1133:19,22;1134:17; 1143:7;1149:4,17; 1191:17 height (13) 1107:13,19;1109:4;	hit (1) 1165:24 Hoen's (1) 1191:20 hold (3) 1136:23,24;1138:10 holding (3) 1139:2;1141:4;	1102:18;1108:4,17 how's (1) 1150:18 hub (18) 1107:13,18;1108:1, 6,15;1109:4,8,14,15, 21;1110:1,5,17;1111:2, 7,13;1118:5,21	imagined (1) 1194:11 immediate (1) 1258:6 impact (8) 1106:2,6;1143:5,24; 1165:16;1182:7; 1191:18;1254:19	independent (8) 1131:4;1132:1; 1159:21;1186:8,11,17; 1231:15;1252:23 indicate (1) 1208:13 indicated (2) 1186:19;1222:11
hedonic (13) 1116:5;1125:1,3; 1127:23;1130:15,23; 1133:19,22;1134:17; 1143:7;1149:4,17; 1191:17 height (13) 1107:13,19;1109:4; 1110:5,17;1111:3,7,13;	hit (1) 1165:24 Hoen's (1) 1191:20 hold (3) 1136:23,24;1138:10 holding (3) 1139:2;1141:4; 1173:23	1102:18;1108:4,17 how's (1) 1150:18 hub (18) 1107:13,18;1108:1, 6,15;1109:4,8,14,15, 21;1110:1,5,17;1111:2, 7,13;1118:5,21 Huh (2)	imagined (1) 1194:11 immediate (1) 1258:6 impact (8) 1106:2,6;1143:5,24; 1165:16;1182:7; 1191:18;1254:19 impacted (1)	independent (8) 1131:4;1132:1; 1159:21;1186:8,11,17; 1231:15;1252:23 indicate (1) 1208:13 indicated (2) 1186:19;1222:11 indirect (1)
hedonic (13) 1116:5;1125:1,3; 1127:23;1130:15,23; 1133:19,22;1134:17; 1143:7;1149:4,17; 1191:17 height (13) 1107:13,19;1109:4; 1110:5,17;1111:3,7,13; 1117:21,23;1118:5,7,	hit (1) 1165:24 Hoen's (1) 1191:20 hold (3) 1136:23,24;1138:10 holding (3) 1139:2;1141:4; 1173:23 holds (1)	1102:18;1108:4,17 how's (1) 1150:18 hub (18) 1107:13,18;1108:1, 6,15;1109:4,8,14,15, 21;1110:1,5,17;1111:2, 7,13;1118:5,21 Huh (2) 1212:5;1233:1	imagined (1) 1194:11 immediate (1) 1258:6 impact (8) 1106:2,6;1143:5,24; 1165:16;1182:7; 1191:18;1254:19 impacted (1) 1144:11	independent (8) 1131:4;1132:1; 1159:21;1186:8,11,17; 1231:15;1252:23 indicate (1) 1208:13 indicated (2) 1186:19;1222:11 indirect (1) 1127:13
hedonic (13) 1116:5;1125:1,3; 1127:23;1130:15,23; 1133:19,22;1134:17; 1143:7;1149:4,17; 1191:17 height (13) 1107:13,19;1109:4; 1110:5,17;1111:3,7,13; 1117:21,23;1118:5,7, 21	hit (1) 1165:24 Hoen's (1) 1191:20 hold (3) 1136:23,24;1138:10 holding (3) 1139:2;1141:4; 1173:23 holds (1) 1171:3	1102:18;1108:4,17 how's (1) 1150:18 hub (18) 1107:13,18;1108:1, 6,15;1109:4,8,14,15, 21;1110:1,5,17;1111:2, 7,13;1118:5,21 Huh (2) 1212:5;1233:1 Huisman (9)	imagined (1) 1194:11 immediate (1) 1258:6 impact (8) 1106:2,6;1143:5,24; 1165:16;1182:7; 1191:18;1254:19 impacted (1) 1144:11 impacts (2)	independent (8) 1131:4;1132:1; 1159:21;1186:8,11,17; 1231:15;1252:23 indicate (1) 1208:13 indicated (2) 1186:19;1222:11 indirect (1) 1127:13 individual (17)
hedonic (13) 1116:5;1125:1,3; 1127:23;1130:15,23; 1133:19,22;1134:17; 1143:7;1149:4,17; 1191:17 height (13) 1107:13,19;1109:4; 1110:5,17;1111:3,7,13; 1117:21,23;1118:5,7, 21 heights (8)	hit (1) 1165:24 Hoen's (1) 1191:20 hold (3) 1136:23,24;1138:10 holding (3) 1139:2;1141:4; 1173:23 holds (1) 1171:3 home (27)	1102:18;1108:4,17 how's (1) 1150:18 hub (18) 1107:13,18;1108:1, 6,15;1109:4,8,14,15, 21;1110:1,5,17;1111:2, 7,13;1118:5,21 Huh (2) 1212:5;1233:1 Huisman (9) 1102:20,21;1124:21,	imagined (1) 1194:11 immediate (1) 1258:6 impact (8) 1106:2,6;1143:5,24; 1165:16;1182:7; 1191:18;1254:19 impacted (1) 1144:11 impacts (2) 1152:8;1191:6	independent (8) 1131:4;1132:1; 1159:21;1186:8,11,17; 1231:15;1252:23 indicate (1) 1208:13 indicated (2) 1186:19;1222:11 indirect (1) 1127:13 individual (17) 1119:7;1146:11;
hedonic (13) 1116:5;1125:1,3; 1127:23;1130:15,23; 1133:19,22;1134:17; 1143:7;1149:4,17; 1191:17 height (13) 1107:13,19;1109:4; 1110:5,17;1111:3,7,13; 1117:21,23;1118:5,7, 21 heights (8) 1108:2,6,15;1109:4,	hit (1) 1165:24 Hoen's (1) 1191:20 hold (3) 1136:23,24;1138:10 holding (3) 1139:2;1141:4; 1173:23 holds (1) 1171:3 home (27) 1114:12;1116:8,9;	1102:18;1108:4,17 how's (1) 1150:18 hub (18) 1107:13,18;1108:1, 6,15;1109:4,8,14,15, 21;1110:1,5,17;1111:2, 7,13;1118:5,21 Huh (2) 1212:5;1233:1 Huisman (9) 1102:20,21;1124:21, 23;1128:6;1146:22;	imagined (1) 1194:11 immediate (1) 1258:6 impact (8) 1106:2,6;1143:5,24; 1165:16;1182:7; 1191:18;1254:19 impacted (1) 1144:11 impacts (2) 1152:8;1191:6 implemented (1)	independent (8) 1131:4;1132:1; 1159:21;1186:8,11,17; 1231:15;1252:23 indicate (1) 1208:13 indicated (2) 1186:19;1222:11 indirect (1) 1127:13 individual (17) 1119:7;1146:11; 1153:13;1162:8;
hedonic (13) 1116:5;1125:1,3; 1127:23;1130:15,23; 1133:19,22;1134:17; 1143:7;1149:4,17; 1191:17 height (13) 1107:13,19;1109:4; 1110:5,17;1111:3,7,13; 1117:21,23;1118:5,7, 21 heights (8)	hit (1) 1165:24 Hoen's (1) 1191:20 hold (3) 1136:23,24;1138:10 holding (3) 1139:2;1141:4; 1173:23 holds (1) 1171:3 home (27)	1102:18;1108:4,17 how's (1) 1150:18 hub (18) 1107:13,18;1108:1, 6,15;1109:4,8,14,15, 21;1110:1,5,17;1111:2, 7,13;1118:5,21 Huh (2) 1212:5;1233:1 Huisman (9) 1102:20,21;1124:21,	imagined (1) 1194:11 immediate (1) 1258:6 impact (8) 1106:2,6;1143:5,24; 1165:16;1182:7; 1191:18;1254:19 impacted (1) 1144:11 impacts (2) 1152:8;1191:6	independent (8) 1131:4;1132:1; 1159:21;1186:8,11,17; 1231:15;1252:23 indicate (1) 1208:13 indicated (2) 1186:19;1222:11 indirect (1) 1127:13 individual (17) 1119:7;1146:11;
hedonic (13) 1116:5;1125:1,3; 1127:23;1130:15,23; 1133:19,22;1134:17; 1143:7;1149:4,17; 1191:17 height (13) 1107:13,19;1109:4; 1110:5,17;1111:3,7,13; 1117:21,23;1118:5,7, 21 heights (8) 1108:2,6,15;1109:4, 8,15,21;1110:1	hit (1) 1165:24 Hoen's (1) 1191:20 hold (3) 1136:23,24;1138:10 holding (3) 1139:2;1141:4; 1173:23 holds (1) 1171:3 home (27) 1114:12;1116:8,9; 1117:22;1118:18;	1102:18;1108:4,17 how's (1) 1150:18 hub (18) 1107:13,18;1108:1, 6,15;1109:4,8,14,15, 21;1110:1,5,17;1111:2, 7,13;1118:5,21 Huh (2) 1212:5;1233:1 Huisman (9) 1102:20,21;1124:21, 23;1128:6;1146:22; 1176:24;1177:2;	imagined (1) 1194:11 immediate (1) 1258:6 impact (8) 1106:2,6;1143:5,24; 1165:16;1182:7; 1191:18;1254:19 impacted (1) 1144:11 impacts (2) 1152:8;1191:6 implemented (1) 1169:24	independent (8) 1131:4;1132:1; 1159:21;1186:8,11,17; 1231:15;1252:23 indicate (1) 1208:13 indicated (2) 1186:19;1222:11 indirect (1) 1127:13 individual (17) 1119:7;1146:11; 1153:13;1162:8; 1185:15;1230:15,22;
hedonic (13) 1116:5;1125:1,3; 1127:23;1130:15,23; 1133:19,22;1134:17; 1143:7;1149:4,17; 1191:17 height (13) 1107:13,19;1109:4; 1110:5,17;1111:3,7,13; 1117:21,23;1118:5,7, 21 heights (8) 1108:2,6,15;1109:4, 8,15,21;1110:1 Heintzelman (2)	hit (1) 1165:24 Hoen's (1) 1191:20 hold (3) 1136:23,24;1138:10 holding (3) 1139:2;1141:4; 1173:23 holds (1) 1171:3 home (27) 1114:12;1116:8,9; 1117:22;1118:18; 1125:2,6,8,9,20;	1102:18;1108:4,17 how's (1) 1150:18 hub (18) 1107:13,18;1108:1, 6,15;1109:4,8,14,15, 21;1110:1,5,17;1111:2, 7,13;1118:5,21 Huh (2) 1212:5;1233:1 Huisman (9) 1102:20,21;1124:21, 23;1128:6;1146:22; 1176:24;1177:2; 1184:7	imagined (1) 1194:11 immediate (1) 1258:6 impact (8) 1106:2,6;1143:5,24; 1165:16;1182:7; 1191:18;1254:19 impacted (1) 1144:11 impacts (2) 1152:8;1191:6 implemented (1) 1169:24 implications (1)	independent (8) 1131:4;1132:1; 1159:21;1186:8,11,17; 1231:15;1252:23 indicate (1) 1208:13 indicated (2) 1186:19;1222:11 indirect (1) 1127:13 individual (17) 1119:7;1146:11; 1153:13;1162:8; 1185:15;1230:15,22; 1231:2,6;1238:20;
hedonic (13) 1116:5;1125:1,3; 1127:23;1130:15,23; 1133:19,22;1134:17; 1143:7;1149:4,17; 1191:17 height (13) 1107:13,19;1109:4; 1110:5,17;1111:3,7,13; 1117:21,23;1118:5,7, 21 heights (8) 1108:2,6,15;1109:4, 8,15,21;1110:1 Heintzelman (2) 1129:5;1130:13	hit (1) 1165:24 Hoen's (1) 1191:20 hold (3) 1136:23,24;1138:10 holding (3) 1139:2;1141:4; 1173:23 holds (1) 1171:3 home (27) 1114:12;1116:8,9; 1117:22;1118:18; 1125:2,6,8,9,20; 1126:21,21;1127:8;	1102:18;1108:4,17 how's (1) 1150:18 hub (18) 1107:13,18;1108:1, 6,15;1109:4,8,14,15, 21;1110:1,5,17;1111:2, 7,13;1118:5,21 Huh (2) 1212:5;1233:1 Huisman (9) 1102:20,21;1124:21, 23;1128:6;1146:22; 1176:24;1177:2; 1184:7 Huisman's (1)	imagined (1) 1194:11 immediate (1) 1258:6 impact (8) 1106:2,6;1143:5,24; 1165:16;1182:7; 1191:18;1254:19 impacted (1) 1144:11 impacts (2) 1152:8;1191:6 implemented (1) 1169:24 implications (1) 1244:11	independent (8) 1131:4;1132:1; 1159:21;1186:8,11,17; 1231:15;1252:23 indicate (1) 1208:13 indicated (2) 1186:19;1222:11 indirect (1) 1127:13 individual (17) 1119:7;1146:11; 1153:13;1162:8; 1185:15;1230:15,22; 1231:2,6;1238:20; 1243:5;1244:7,16;
hedonic (13) 1116:5;1125:1,3; 1127:23;1130:15,23; 1133:19,22;1134:17; 1143:7;1149:4,17; 1191:17 height (13) 1107:13,19;1109:4; 1110:5,17;1111:3,7,13; 1117:21,23;1118:5,7, 21 heights (8) 1108:2,6,15;1109:4, 8,15,21;1110:1 Heintzelman (2) 1129:5;1130:13 held (1)	hit (1) 1165:24 Hoen's (1) 1191:20 hold (3) 1136:23,24;1138:10 holding (3) 1139:2;1141:4; 1173:23 holds (1) 1171:3 home (27) 1114:12;1116:8,9; 1117:22;1118:18; 1125:2,6,8,9,20; 1126:21,21;1127:8; 1130:20;1134:13;	1102:18;1108:4,17 how's (1) 1150:18 hub (18) 1107:13,18;1108:1, 6,15;1109:4,8,14,15, 21;1110:1,5,17;1111:2, 7,13;1118:5,21 Huh (2) 1212:5;1233:1 Huisman (9) 1102:20,21;1124:21, 23;1128:6;1146:22; 1176:24;1177:2; 1184:7 Huisman's (1) 1210:17	imagined (1) 1194:11 immediate (1) 1258:6 impact (8) 1106:2,6;1143:5,24; 1165:16;1182:7; 1191:18;1254:19 impacted (1) 1144:11 impacts (2) 1152:8;1191:6 implemented (1) 1169:24 implications (1) 1244:11 implore (1)	independent (8) 1131:4;1132:1; 1159:21;1186:8,11,17; 1231:15;1252:23 indicate (1) 1208:13 indicated (2) 1186:19;1222:11 indirect (1) 1127:13 individual (17) 1119:7;1146:11; 1153:13;1162:8; 1185:15;1230:15,22; 1231:2,6;1238:20; 1243:5;1244:7,16; 1245:24;1246:2,15,20
hedonic (13) 1116:5;1125:1,3; 1127:23;1130:15,23; 1133:19,22;1134:17; 1143:7;1149:4,17; 1191:17 height (13) 1107:13,19;1109:4; 1110:5,17;1111:3,7,13; 1117:21,23;1118:5,7, 21 heights (8) 1108:2,6,15;1109:4, 8,15,21;1110:1 Heintzelman (2) 1129:5;1130:13 held (1) 1133:13	hit (1) 1165:24 Hoen's (1) 1191:20 hold (3) 1136:23,24;1138:10 holding (3) 1139:2;1141:4; 1173:23 holds (1) 1171:3 home (27) 1114:12;1116:8,9; 1117:22;1118:18; 1125:2,6,8,9,20; 1126:21,21;1127:8; 1130:20;1134:13; 1141:13,13;1142:4,6,8;	1102:18;1108:4,17 how's (1) 1150:18 hub (18) 1107:13,18;1108:1, 6,15;1109:4,8,14,15, 21;1110:1,5,17;1111:2, 7,13;1118:5,21 Huh (2) 1212:5;1233:1 Huisman (9) 1102:20,21;1124:21, 23;1128:6;1146:22; 1176:24;1177:2; 1184:7 Huisman's (1) 1210:17 hundred (5)	imagined (1) 1194:11 immediate (1) 1258:6 impact (8) 1106:2,6;1143:5,24; 1165:16;1182:7; 1191:18;1254:19 impacted (1) 1144:11 impacts (2) 1152:8;1191:6 implemented (1) 1169:24 implications (1) 1244:11 implore (1) 1171:23	independent (8) 1131:4;1132:1; 1159:21;1186:8,11,17; 1231:15;1252:23 indicate (1) 1208:13 indicated (2) 1186:19;1222:11 indirect (1) 1127:13 individual (17) 1119:7;1146:11; 1153:13;1162:8; 1185:15;1230:15,22; 1231:2,6;1238:20; 1243:5;1244:7,16; 1245:24;1246:2,15,20 individually (1)
hedonic (13) 1116:5;1125:1,3; 1127:23;1130:15,23; 1133:19,22;1134:17; 1143:7;1149:4,17; 1191:17 height (13) 1107:13,19;1109:4; 1110:5,17;1111:3,7,13; 1117:21,23;1118:5,7, 21 heights (8) 1108:2,6,15;1109:4, 8,15,21;1110:1 Heintzelman (2) 1129:5;1130:13 held (1) 1133:13 Hello (1)	hit (1) 1165:24 Hoen's (1) 1191:20 hold (3) 1136:23,24;1138:10 holding (3) 1139:2;1141:4; 1173:23 holds (1) 1171:3 home (27) 1114:12;1116:8,9; 1117:22;1118:18; 1125:2,6,8,9,20; 1126:21,21;1127:8; 1130:20;1134:13;	1102:18;1108:4,17 how's (1) 1150:18 hub (18) 1107:13,18;1108:1, 6,15;1109:4,8,14,15, 21;1110:1,5,17;1111:2, 7,13;1118:5,21 Huh (2) 1212:5;1233:1 Huisman (9) 1102:20,21;1124:21, 23;1128:6;1146:22; 1176:24;1177:2; 1184:7 Huisman's (1) 1210:17 hundred (5) 1111:22;1112:4;	imagined (1) 1194:11 immediate (1) 1258:6 impact (8) 1106:2,6;1143:5,24; 1165:16;1182:7; 1191:18;1254:19 impacted (1) 1144:11 impacts (2) 1152:8;1191:6 implemented (1) 1169:24 implications (1) 1244:11 implore (1) 1171:23 importance (1)	independent (8) 1131:4;1132:1; 1159:21;1186:8,11,17; 1231:15;1252:23 indicate (1) 1208:13 indicated (2) 1186:19;1222:11 indirect (1) 1127:13 individual (17) 1119:7;1146:11; 1153:13;1162:8; 1185:15;1230:15,22; 1231:2,6;1238:20; 1243:5;1244:7,16; 1245:24;1246:2,15,20 individually (1) 1205:22
hedonic (13) 1116:5;1125:1,3; 1127:23;1130:15,23; 1133:19,22;1134:17; 1143:7;1149:4,17; 1191:17 height (13) 1107:13,19;1109:4; 1110:5,17;1111:3,7,13; 1117:21,23;1118:5,7, 21 heights (8) 1108:2,6,15;1109:4, 8,15,21;1110:1 Heintzelman (2) 1129:5;1130:13 held (1) 1133:13	hit (1) 1165:24 Hoen's (1) 1191:20 hold (3) 1136:23,24;1138:10 holding (3) 1139:2;1141:4; 1173:23 holds (1) 1171:3 home (27) 1114:12;1116:8,9; 1117:22;1118:18; 1125:2,6,8,9,20; 1126:21,21;1127:8; 1130:20;1134:13; 1141:13,13;1142:4,6,8;	1102:18;1108:4,17 how's (1) 1150:18 hub (18) 1107:13,18;1108:1, 6,15;1109:4,8,14,15, 21;1110:1,5,17;1111:2, 7,13;1118:5,21 Huh (2) 1212:5;1233:1 Huisman (9) 1102:20,21;1124:21, 23;1128:6;1146:22; 1176:24;1177:2; 1184:7 Huisman's (1) 1210:17 hundred (5) 1111:22;1112:4;	imagined (1) 1194:11 immediate (1) 1258:6 impact (8) 1106:2,6;1143:5,24; 1165:16;1182:7; 1191:18;1254:19 impacted (1) 1144:11 impacts (2) 1152:8;1191:6 implemented (1) 1169:24 implications (1) 1244:11 implore (1) 1171:23	independent (8) 1131:4;1132:1; 1159:21;1186:8,11,17; 1231:15;1252:23 indicate (1) 1208:13 indicated (2) 1186:19;1222:11 indirect (1) 1127:13 individual (17) 1119:7;1146:11; 1153:13;1162:8; 1185:15;1230:15,22; 1231:2,6;1238:20; 1243:5;1244:7,16; 1245:24;1246:2,15,20 individually (1)
hedonic (13) 1116:5;1125:1,3; 1127:23;1130:15,23; 1133:19,22;1134:17; 1143:7;1149:4,17; 1191:17 height (13) 1107:13,19;1109:4; 1110:5,17;1111:3,7,13; 1117:21,23;1118:5,7, 21 heights (8) 1108:2,6,15;1109:4, 8,15,21;1110:1 Heintzelman (2) 1129:5;1130:13 held (1) 1133:13 Hello (1) 1147:10	hit (1) 1165:24 Hoen's (1) 1191:20 hold (3) 1136:23,24;1138:10 holding (3) 1139:2;1141:4; 1173:23 holds (1) 1171:3 home (27) 1114:12;1116:8,9; 1117:22;1118:18; 1125:2,6,8,9,20; 1126:21,21;1127:8; 1130:20;1134:13; 1141:13,13;1142:4,6,8; 1145:9;1148:12,13; 1150:3;1152:20;	1102:18;1108:4,17 how's (1) 1150:18 hub (18) 1107:13,18;1108:1, 6,15;1109:4,8,14,15, 21;1110:1,5,17;1111:2, 7,13;1118:5,21 Huh (2) 1212:5;1233:1 Huisman (9) 1102:20,21;1124:21, 23;1128:6;1146:22; 1176:24;1177:2; 1184:7 Huisman's (1) 1210:17 hundred (5) 1111:22;1112:4; 1137:20;1144:4;	imagined (1) 1194:11 immediate (1) 1258:6 impact (8) 1106:2,6;1143:5,24; 1165:16;1182:7; 1191:18;1254:19 impacted (1) 1144:11 impacts (2) 1152:8;1191:6 implemented (1) 1169:24 implications (1) 1244:11 implore (1) 1171:23 importance (1) 1160:10	independent (8) 1131:4;1132:1; 1159:21;1186:8,11,17; 1231:15;1252:23 indicate (1) 1208:13 indicated (2) 1186:19;1222:11 indirect (1) 1127:13 individual (17) 1119:7;1146:11; 1153:13;1162:8; 1185:15;1230:15,22; 1231:2,6;1238:20; 1243:5;1244:7,16; 1245:24;1246:2,15,20 individually (1) 1205:22
hedonic (13) 1116:5;1125:1,3; 1127:23;1130:15,23; 1133:19,22;1134:17; 1143:7;1149:4,17; 1191:17 height (13) 1107:13,19;1109:4; 1110:5,17;1111:3,7,13; 1117:21,23;1118:5,7, 21 heights (8) 1108:2,6,15;1109:4, 8,15,21;1110:1 Heintzelman (2) 1129:5;1130:13 held (1) 1133:13 Hello (1) 1147:10 help (1)	hit (1) 1165:24 Hoen's (1) 1191:20 hold (3) 1136:23,24;1138:10 holding (3) 1139:2;1141:4; 1173:23 holds (1) 1171:3 home (27) 1114:12;1116:8,9; 1117:22;1118:18; 1125:2,6,8,9,20; 1126:21,21;1127:8; 1130:20;1134:13; 1141:13,13;1142:4,6,8; 1145:9;1148:12,13; 1150:3;1152:20; 1153:13;1223:22	1102:18;1108:4,17 how's (1) 1150:18 hub (18) 1107:13,18;1108:1, 6,15;1109:4,8,14,15, 21;1110:1,5,17;1111:2, 7,13;1118:5,21 Huh (2) 1212:5;1233:1 Huisman (9) 1102:20,21;1124:21, 23;1128:6;1146:22; 1176:24;1177:2; 1184:7 Huisman's (1) 1210:17 hundred (5) 1111:22;1112:4; 1137:20;1144:4; 1175:23	imagined (1) 1194:11 immediate (1) 1258:6 impact (8) 1106:2,6;1143:5,24; 1165:16;1182:7; 1191:18;1254:19 impacted (1) 1144:11 impacts (2) 1152:8;1191:6 implemented (1) 1169:24 implications (1) 1244:11 implore (1) 1171:23 importance (1) 1160:10 important (7)	independent (8) 1131:4;1132:1; 1159:21;1186:8,11,17; 1231:15;1252:23 indicate (1) 1208:13 indicated (2) 1186:19;1222:11 indirect (1) 1127:13 individual (17) 1119:7;1146:11; 1153:13;1162:8; 1185:15;1230:15,22; 1231:2,6;1238:20; 1243:5;1244:7,16; 1245:24;1246:2,15,20 individually (1) 1205:22 individuals (1) 1119:14
hedonic (13) 1116:5;1125:1,3; 1127:23;1130:15,23; 1133:19,22;1134:17; 1143:7;1149:4,17; 1191:17 height (13) 1107:13,19;1109:4; 1110:5,17;1111:3,7,13; 1117:21,23;1118:5,7, 21 heights (8) 1108:2,6,15;1109:4, 8,15,21;1110:1 Heintzelman (2) 1129:5;1130:13 held (1) 1133:13 Hello (1) 1147:10 help (1) 1124:24	hit (1) 1165:24 Hoen's (1) 1191:20 hold (3) 1136:23,24;1138:10 holding (3) 1139:2;1141:4; 1173:23 holds (1) 1171:3 home (27) 1114:12;1116:8,9; 1117:22;1118:18; 1125:2,6,8,9,20; 1126:21,21;1127:8; 1130:20;1134:13; 1141:13,13;1142:4,6,8; 1145:9;1148:12,13; 1150:3;1152:20; 1153:13;1223:22 homeowner (1)	1102:18;1108:4,17 how's (1) 1150:18 hub (18) 1107:13,18;1108:1, 6,15;1109:4,8,14,15, 21;1110:1,5,17;1111:2, 7,13;1118:5,21 Huh (2) 1212:5;1233:1 Huisman (9) 1102:20,21;1124:21, 23;1128:6;1146:22; 1176:24;1177:2; 1184:7 Huisman's (1) 1210:17 hundred (5) 1111:22;1112:4; 1137:20;1144:4; 1175:23 hypothesis (5)	imagined (1) 1194:11 immediate (1) 1258:6 impact (8) 1106:2,6;1143:5,24; 1165:16;1182:7; 1191:18;1254:19 impacted (1) 1144:11 impacts (2) 1152:8;1191:6 implemented (1) 1169:24 implications (1) 1244:11 implore (1) 1171:23 importance (1) 1160:10 important (7) 1169:9;1171:4,24;	independent (8) 1131:4;1132:1; 1159:21;1186:8,11,17; 1231:15;1252:23 indicate (1) 1208:13 indicated (2) 1186:19;1222:11 indirect (1) 1127:13 individual (17) 1119:7;1146:11; 1153:13;1162:8; 1185:15;1230:15,22; 1231:2,6;1238:20; 1243:5;1244:7,16; 1245:24;1246:2,15,20 individually (1) 1205:22 individuals (1) 1119:14 industrial (2)
hedonic (13) 1116:5;1125:1,3; 1127:23;1130:15,23; 1133:19,22;1134:17; 1143:7;1149:4,17; 1191:17 height (13) 1107:13,19;1109:4; 1110:5,17;1111:3,7,13; 1117:21,23;1118:5,7, 21 heights (8) 1108:2,6,15;1109:4, 8,15,21;1110:1 Heintzelman (2) 1129:5;1130:13 held (1) 1133:13 Hello (1) 1147:10 help (1) 1124:24 helped (1)	hit (1) 1165:24 Hoen's (1) 1191:20 hold (3) 1136:23,24;1138:10 holding (3) 1139:2;1141:4; 1173:23 holds (1) 1171:3 home (27) 1114:12;1116:8,9; 1117:22;1118:18; 1125:2,6,8,9,20; 1126:21,21;1127:8; 1130:20;1134:13; 1141:13,13;1142:4,6,8; 1145:9;1148:12,13; 1150:3;1152:20; 1153:13;1223:22 homeowner (1) 1145:14	1102:18;1108:4,17 how's (1) 1150:18 hub (18) 1107:13,18;1108:1, 6,15;1109:4,8,14,15, 21;1110:1,5,17;1111:2, 7,13;1118:5,21 Huh (2) 1212:5;1233:1 Huisman (9) 1102:20,21;1124:21, 23;1128:6;1146:22; 1176:24;1177:2; 1184:7 Huisman's (1) 1210:17 hundred (5) 1111:22;1112:4; 1137:20;1144:4; 1175:23 hypothesis (5) 1137:12,14;1139:23,	imagined (1) 1194:11 immediate (1) 1258:6 impact (8) 1106:2,6;1143:5,24; 1165:16;1182:7; 1191:18;1254:19 impacted (1) 1144:11 impacts (2) 1152:8;1191:6 implemented (1) 1169:24 implications (1) 1244:11 implore (1) 1171:23 importance (1) 1160:10 important (7) 1169:9;1171:4,24; 1172:15;1173:24;	independent (8) 1131:4;1132:1; 1159:21;1186:8,11,17; 1231:15;1252:23 indicate (1) 1208:13 indicated (2) 1186:19;1222:11 indirect (1) 1127:13 individual (17) 1119:7;1146:11; 1153:13;1162:8; 1185:15;1230:15,22; 1231:2,6;1238:20; 1243:5;1244:7,16; 1245:24;1246:2,15,20 individually (1) 1205:22 individuals (1) 1119:14 industrial (2) 1202:11;1229:22
hedonic (13) 1116:5;1125:1,3; 1127:23;1130:15,23; 1133:19,22;1134:17; 1143:7;1149:4,17; 1191:17 height (13) 1107:13,19;1109:4; 1110:5,17;1111:3,7,13; 1117:21,23;1118:5,7, 21 heights (8) 1108:2,6,15;1109:4, 8,15,21;1110:1 Heintzelman (2) 1129:5;1130:13 held (1) 1133:13 Hello (1) 1147:10 help (1) 1124:24 helped (1) 1157:19	hit (1) 1165:24 Hoen's (1) 1191:20 hold (3) 1136:23,24;1138:10 holding (3) 1139:2;1141:4; 1173:23 holds (1) 1171:3 home (27) 1114:12;1116:8,9; 1117:22;1118:18; 1125:2,6,8,9,20; 1126:21,21;1127:8; 1130:20;1134:13; 1141:13,13;1142:4,6,8; 1145:9;1148:12,13; 1150:3;1152:20; 1153:13;1223:22 homeowner (1) 1145:14 homeowners (1)	1102:18;1108:4,17 how's (1) 1150:18 hub (18) 1107:13,18;1108:1, 6,15;1109:4,8,14,15, 21;1110:1,5,17;1111:2, 7,13;1118:5,21 Huh (2) 1212:5;1233:1 Huisman (9) 1102:20,21;1124:21, 23;1128:6;1146:22; 1176:24;1177:2; 1184:7 Huisman's (1) 1210:17 hundred (5) 1111:22;1112:4; 1137:20;1144:4; 1175:23 hypothesis (5) 1137:12,14;1139:23, 24;1245:24	imagined (1) 1194:11 immediate (1) 1258:6 impact (8) 1106:2,6;1143:5,24; 1165:16;1182:7; 1191:18;1254:19 impacted (1) 1144:11 impacts (2) 1152:8;1191:6 implemented (1) 1169:24 implications (1) 1244:11 implore (1) 1171:23 importance (1) 1160:10 important (7) 1169:9;1171:4,24; 1172:15;1173:24; 1235:1;1244:10	independent (8) 1131:4;1132:1; 1159:21;1186:8,11,17; 1231:15;1252:23 indicate (1) 1208:13 indicated (2) 1186:19;1222:11 indirect (1) 1127:13 individual (17) 1119:7;1146:11; 1153:13;1162:8; 1185:15;1230:15,22; 1231:2,6;1238:20; 1243:5;1244:7,16; 1245:24;1246:2,15,20 individually (1) 1205:22 individuals (1) 1119:14 industrial (2) 1202:11;1229:22 Industries (1)
hedonic (13) 1116:5;1125:1,3; 1127:23;1130:15,23; 1133:19,22;1134:17; 1143:7;1149:4,17; 1191:17 height (13) 1107:13,19;1109:4; 1110:5,17;1111:3,7,13; 1117:21,23;1118:5,7, 21 heights (8) 1108:2,6,15;1109:4, 8,15,21;1110:1 Heintzelman (2) 1129:5;1130:13 held (1) 1133:13 Hello (1) 1147:10 help (1) 1124:24 helped (1) 1157:19 helps (3)	hit (1) 1165:24 Hoen's (1) 1191:20 hold (3) 1136:23,24;1138:10 holding (3) 1139:2;1141:4; 1173:23 holds (1) 1171:3 home (27) 1114:12;1116:8,9; 1117:22;1118:18; 1125:2,6,8,9,20; 1126:21,21;1127:8; 1130:20;1134:13; 1141:13,13;1142:4,6,8; 1145:9;1148:12,13; 1150:3;1152:20; 1153:13;1223:22 homeowner (1) 1145:14 homeowners (1) 1136:24	1102:18;1108:4,17 how's (1) 1150:18 hub (18) 1107:13,18;1108:1, 6,15;1109:4,8,14,15, 21;1110:1,5,17;1111:2, 7,13;1118:5,21 Huh (2) 1212:5;1233:1 Huisman (9) 1102:20,21;1124:21, 23;1128:6;1146:22; 1176:24;1177:2; 1184:7 Huisman's (1) 1210:17 hundred (5) 1111:22;1112:4; 1137:20;1144:4; 1175:23 hypothesis (5) 1137:12,14;1139:23,	imagined (1) 1194:11 immediate (1) 1258:6 impact (8) 1106:2,6;1143:5,24; 1165:16;1182:7; 1191:18;1254:19 impacted (1) 1144:11 impacts (2) 1152:8;1191:6 implemented (1) 1169:24 implications (1) 1244:11 implore (1) 1171:23 importance (1) 1160:10 important (7) 1169:9;1171:4,24; 1172:15;1173:24; 1235:1;1244:10 impossible (3)	independent (8) 1131:4;1132:1; 1159:21;1186:8,11,17; 1231:15;1252:23 indicate (1) 1208:13 indicated (2) 1186:19;1222:11 indirect (1) 1127:13 individual (17) 1119:7;1146:11; 1153:13;1162:8; 1185:15;1230:15,22; 1231:2,6;1238:20; 1243:5;1244:7,16; 1245:24;1246:2,15,20 individually (1) 1205:22 individuals (1) 1119:14 industrial (2) 1202:11;1229:22 Industries (1) 1232:21
hedonic (13) 1116:5;1125:1,3; 1127:23;1130:15,23; 1133:19,22;1134:17; 1143:7;1149:4,17; 1191:17 height (13) 1107:13,19;1109:4; 1110:5,17;1111:3,7,13; 1117:21,23;1118:5,7, 21 heights (8) 1108:2,6,15;1109:4, 8,15,21;1110:1 Heintzelman (2) 1129:5;1130:13 held (1) 1133:13 Hello (1) 1147:10 help (1) 1124:24 helped (1) 1157:19	hit (1) 1165:24 Hoen's (1) 1191:20 hold (3) 1136:23,24;1138:10 holding (3) 1139:2;1141:4; 1173:23 holds (1) 1171:3 home (27) 1114:12;1116:8,9; 1117:22;1118:18; 1125:2,6,8,9,20; 1126:21,21;1127:8; 1130:20;1134:13; 1141:13,13;1142:4,6,8; 1145:9;1148:12,13; 1150:3;1152:20; 1153:13;1223:22 homeowner (1) 1145:14 homeowners (1)	1102:18;1108:4,17 how's (1) 1150:18 hub (18) 1107:13,18;1108:1, 6,15;1109:4,8,14,15, 21;1110:1,5,17;1111:2, 7,13;1118:5,21 Huh (2) 1212:5;1233:1 Huisman (9) 1102:20,21;1124:21, 23;1128:6;1146:22; 1176:24;1177:2; 1184:7 Huisman's (1) 1210:17 hundred (5) 1111:22;1112:4; 1137:20;1144:4; 1175:23 hypothesis (5) 1137:12,14;1139:23, 24;1245:24	imagined (1) 1194:11 immediate (1) 1258:6 impact (8) 1106:2,6;1143:5,24; 1165:16;1182:7; 1191:18;1254:19 impacted (1) 1144:11 impacts (2) 1152:8;1191:6 implemented (1) 1169:24 implications (1) 1244:11 implore (1) 1171:23 importance (1) 1160:10 important (7) 1169:9;1171:4,24; 1172:15;1173:24; 1235:1;1244:10	independent (8) 1131:4;1132:1; 1159:21;1186:8,11,17; 1231:15;1252:23 indicate (1) 1208:13 indicated (2) 1186:19;1222:11 indirect (1) 1127:13 individual (17) 1119:7;1146:11; 1153:13;1162:8; 1185:15;1230:15,22; 1231:2,6;1238:20; 1243:5;1244:7,16; 1245:24;1246:2,15,20 individually (1) 1205:22 individuals (1) 1119:14 industrial (2) 1202:11;1229:22 Industries (1)
hedonic (13) 1116:5;1125:1,3; 1127:23;1130:15,23; 1133:19,22;1134:17; 1143:7;1149:4,17; 1191:17 height (13) 1107:13,19;1109:4; 1110:5,17;1111:3,7,13; 1117:21,23;1118:5,7, 21 heights (8) 1108:2,6,15;1109:4, 8,15,21;1110:1 Heintzelman (2) 1129:5;1130:13 held (1) 1133:13 Hello (1) 1147:10 help (1) 1124:24 helped (1) 1157:19 helps (3) 1121:23;1122:3,5	hit (1) 1165:24 Hoen's (1) 1191:20 hold (3) 1136:23,24;1138:10 holding (3) 1139:2;1141:4; 1173:23 holds (1) 1171:3 home (27) 1114:12;1116:8,9; 1117:22;1118:18; 1125:2,6,8,9,20; 1126:21,21;1127:8; 1130:20;1134:13; 1141:13,13;1142:4,6,8; 1145:9;1148:12,13; 1150:3;1152:20; 1153:13;1223:22 homeowner (1) 1145:14 homeowners (1) 1136:24 homes (51)	1102:18;1108:4,17 how's (1) 1150:18 hub (18) 1107:13,18;1108:1, 6,15;1109:4,8,14,15, 21;1110:1,5,17;1111:2, 7,13;1118:5,21 Huh (2) 1212:5;1233:1 Huisman (9) 1102:20,21;1124:21, 23;1128:6;1146:22; 1176:24;1177:2; 1184:7 Huisman's (1) 1210:17 hundred (5) 1111:22;1112:4; 1137:20;1144:4; 1175:23 hypothesis (5) 1137:12,14;1139:23, 24;1245:24 hypothetical (1)	imagined (1) 1194:11 immediate (1) 1258:6 impact (8) 1106:2,6;1143:5,24; 1165:16;1182:7; 1191:18;1254:19 impacted (1) 1144:11 impacts (2) 1152:8;1191:6 implemented (1) 1169:24 implications (1) 1244:11 implore (1) 1171:23 importance (1) 1160:10 important (7) 1169:9;1171:4,24; 1172:15;1173:24; 1235:1;1244:10 impossible (3) 1148:12;1206:23;	independent (8) 1131:4;1132:1; 1159:21;1186:8,11,17; 1231:15;1252:23 indicate (1) 1208:13 indicated (2) 1186:19;1222:11 indirect (1) 1127:13 individual (17) 1119:7;1146:11; 1153:13;1162:8; 1185:15;1230:15,22; 1231:2,6;1238:20; 1243:5;1244:7,16; 1245:24;1246:2,15,20 individually (1) 1205:22 individuals (1) 1119:14 industrial (2) 1202:11;1229:22 Industries (1) 1232:21 industry (4)
hedonic (13) 1116:5;1125:1,3; 1127:23;1130:15,23; 1133:19,22;1134:17; 1143:7;1149:4,17; 1191:17 height (13) 1107:13,19;1109:4; 1110:5,17;1111:3,7,13; 1117:21,23;1118:5,7, 21 heights (8) 1108:2,6,15;1109:4, 8,15,21;1110:1 Heintzelman (2) 1129:5;1130:13 held (1) 1133:13 Hello (1) 1147:10 help (1) 1124:24 helped (1) 1157:19 helps (3) 1121:23;1122:3,5 Here's (1)	hit (1) 1165:24 Hoen's (1) 1191:20 hold (3) 1136:23,24;1138:10 holding (3) 1139:2;1141:4; 1173:23 holds (1) 1171:3 home (27) 1114:12;1116:8,9; 1117:22;1118:18; 1125:2,6,8,9,20; 1126:21,21;1127:8; 1130:20;1134:13; 1141:13,13;1142:4,6,8; 1145:9;1148:12,13; 1150:3;1152:20; 1153:13;1223:22 homeowner (1) 1145:14 homeowners (1) 1136:24 homes (51) 1104:7,12;1118:16,	1102:18;1108:4,17 how's (1) 1150:18 hub (18) 1107:13,18;1108:1, 6,15;1109:4,8,14,15, 21;1110:1,5,17;1111:2, 7,13;1118:5,21 Huh (2) 1212:5;1233:1 Huisman (9) 1102:20,21;1124:21, 23;1128:6;1146:22; 1176:24;1177:2; 1184:7 Huisman's (1) 1210:17 hundred (5) 1111:22;1112:4; 1137:20;1144:4; 1175:23 hypothesis (5) 1137:12,14;1139:23, 24;1245:24 hypothetical (1) 1244:13	imagined (1) 1194:11 immediate (1) 1258:6 impact (8) 1106:2,6;1143:5,24; 1165:16;1182:7; 1191:18;1254:19 impacted (1) 1144:11 impacts (2) 1152:8;1191:6 implemented (1) 1169:24 implications (1) 1244:11 implore (1) 1171:23 importance (1) 1160:10 important (7) 1169:9;1171:4,24; 1172:15;1173:24; 1235:1;1244:10 impossible (3) 1148:12;1206:23; 1210:7	independent (8) 1131:4;1132:1; 1159:21;1186:8,11,17; 1231:15;1252:23 indicate (1) 1208:13 indicated (2) 1186:19;1222:11 indirect (1) 1127:13 individual (17) 1119:7;1146:11; 1153:13;1162:8; 1185:15;1230:15,22; 1231:2,6;1238:20; 1243:5;1244:7,16; 1245:24;1246:2,15,20 individually (1) 1205:22 individuals (1) 1119:14 industrial (2) 1202:11;1229:22 Industries (1) 1232:21 industry (4) 1166:23;1167:1;
hedonic (13) 1116:5;1125:1,3; 1127:23;1130:15,23; 1133:19,22;1134:17; 1143:7;1149:4,17; 1191:17 height (13) 1107:13,19;1109:4; 1110:5,17;1111:3,7,13; 1117:21,23;1118:5,7, 21 heights (8) 1108:2,6,15;1109:4, 8,15,21;1110:1 Heintzelman (2) 1129:5;1130:13 held (1) 1133:13 Hello (1) 1147:10 help (1) 1124:24 helped (1) 1157:19 helps (3) 1121:23;1122:3,5 Here's (1) 1133:2	hit (1) 1165:24 Hoen's (1) 1191:20 hold (3) 1136:23,24;1138:10 holding (3) 1139:2;1141:4; 1173:23 holds (1) 1171:3 home (27) 1114:12;1116:8,9; 1117:22;1118:18; 1125:2,6,8,9,20; 1126:21,21;1127:8; 1130:20;1134:13; 1141:13,13;1142:4,6,8; 1145:9;1148:12,13; 1150:3;1152:20; 1153:13;1223:22 homeowner (1) 1145:14 homeowners (1) 1136:24 homes (51) 1104:7,12;1118:16, 17;1119:22,24;1120:2,	1102:18;1108:4,17 how's (1) 1150:18 hub (18) 1107:13,18;1108:1, 6,15;1109:4,8,14,15, 21;1110:1,5,17;1111:2, 7,13;1118:5,21 Huh (2) 1212:5;1233:1 Huisman (9) 1102:20,21;1124:21, 23;1128:6;1146:22; 1176:24;1177:2; 1184:7 Huisman's (1) 1210:17 hundred (5) 1111:22;1112:4; 1137:20;1144:4; 1175:23 hypothesis (5) 1137:12,14;1139:23, 24;1245:24 hypothetical (1)	imagined (1) 1194:11 immediate (1) 1258:6 impact (8) 1106:2,6;1143:5,24; 1165:16;1182:7; 1191:18;1254:19 impacted (1) 1144:11 impacts (2) 1152:8;1191:6 implemented (1) 1169:24 implications (1) 1244:11 implore (1) 1171:23 importance (1) 1160:10 important (7) 1169:9;1171:4,24; 1172:15;1173:24; 1235:1;1244:10 impossible (3) 1148:12;1206:23; 1210:7 improvement (1)	independent (8) 1131:4;1132:1; 1159:21;1186:8,11,17; 1231:15;1252:23 indicate (1) 1208:13 indicated (2) 1186:19;1222:11 indirect (1) 1127:13 individual (17) 1119:7;1146:11; 1153:13;1162:8; 1185:15;1230:15,22; 1231:2,6;1238:20; 1243:5;1244:7,16; 1245:24;1246:2,15,20 individually (1) 1205:22 individuals (1) 1119:14 industrial (2) 1202:11;1229:22 Industries (1) 1232:21 industry (4) 1166:23;1167:1; 1234:20,21
hedonic (13) 1116:5;1125:1,3; 1127:23;1130:15,23; 1133:19,22;1134:17; 1143:7;1149:4,17; 1191:17 height (13) 1107:13,19;1109:4; 1110:5,17;1111:3,7,13; 1117:21,23;1118:5,7, 21 heights (8) 1108:2,6,15;1109:4, 8,15,21;1110:1 Heintzelman (2) 1129:5;1130:13 held (1) 1133:13 Hello (1) 1147:10 help (1) 1124:24 helped (1) 1157:19 helps (3) 1121:23;1122:3,5 Here's (1) 1133:2 Hewson (26)	hit (1) 1165:24 Hoen's (1) 1191:20 hold (3) 1136:23,24;1138:10 holding (3) 1139:2;1141:4; 1173:23 holds (1) 1171:3 home (27) 1114:12;1116:8,9; 1117:22;1118:18; 1125:2,6,8,9,20; 1126:21,21;1127:8; 1130:20;1134:13; 1141:13,13;1142:4,6,8; 1145:9;1148:12,13; 1150:3;1152:20; 1153:13;1223:22 homeowner (1) 1145:14 homeowners (1) 1136:24 homes (51) 1104:7,12;1118:16, 17;1119:22,24;1120:2, 8,18;1121:9,11,13;	1102:18;1108:4,17 how's (1) 1150:18 hub (18) 1107:13,18;1108:1, 6,15;1109:4,8,14,15, 21;1110:1,5,17;1111:2, 7,13;1118:5,21 Huh (2) 1212:5;1233:1 Huisman (9) 1102:20,21;1124:21, 23;1128:6;1146:22; 1176:24;1177:2; 1184:7 Huisman's (1) 1210:17 hundred (5) 1111:22;1112:4; 1137:20;1144:4; 1175:23 hypothesis (5) 1137:12,14;1139:23, 24;1245:24 hypothetical (1) 1244:13	imagined (1) 1194:11 immediate (1) 1258:6 impact (8) 1106:2,6;1143:5,24; 1165:16;1182:7; 1191:18;1254:19 impacted (1) 1144:11 impacts (2) 1152:8;1191:6 implemented (1) 1169:24 implications (1) 1244:11 implore (1) 1171:23 importance (1) 1160:10 important (7) 1169:9;1171:4,24; 1172:15;1173:24; 1235:1;1244:10 impossible (3) 1148:12;1206:23; 1210:7 improvement (1) 1175:11	independent (8) 1131:4;1132:1; 1159:21;1186:8,11,17; 1231:15;1252:23 indicate (1) 1208:13 indicated (2) 1186:19;1222:11 indirect (1) 1127:13 individual (17) 1119:7;1146:11; 1153:13;1162:8; 1185:15;1230:15,22; 1231:2,6;1238:20; 1243:5;1244:7,16; 1245:24;1246:2,15,20 individually (1) 1205:22 individuals (1) 1119:14 industrial (2) 1202:11;1229:22 Industries (1) 1232:21 industry (4) 1166:23;1167:1; 1234:20,21 inflating (1)
hedonic (13) 1116:5;1125:1,3; 1127:23;1130:15,23; 1133:19,22;1134:17; 1143:7;1149:4,17; 1191:17 height (13) 1107:13,19;1109:4; 1110:5,17;1111:3,7,13; 1117:21,23;1118:5,7, 21 heights (8) 1108:2,6,15;1109:4, 8,15,21;1110:1 Heintzelman (2) 1129:5;1130:13 held (1) 1133:13 Hello (1) 1147:10 help (1) 1124:24 helped (1) 1157:19 helps (3) 1121:23;1122:3,5 Here's (1) 1133:2 Hewson (26) 1155:1;1156:21,23;	hit (1) 1165:24 Hoen's (1) 1191:20 hold (3) 1136:23,24;1138:10 holding (3) 1139:2;1141:4; 1173:23 holds (1) 1171:3 home (27) 1114:12;1116:8,9; 1117:22;1118:18; 1125:2,6,8,9,20; 1126:21,21;1127:8; 1130:20;1134:13; 1141:13,13;1142:4,6,8; 1145:9;1148:12,13; 1150:3;1152:20; 1153:13;1223:22 homeowner (1) 1145:14 homeowners (1) 1136:24 homes (51) 1104:7,12;1118:16, 17;1119:22,24;1120:2, 8,18;1121:9,11,13; 1122:8,17;1123:21,24;	1102:18;1108:4,17 how's (1) 1150:18 hub (18) 1107:13,18;1108:1, 6,15;1109:4,8,14,15, 21;1110:1,5,17;1111:2, 7,13;1118:5,21 Huh (2) 1212:5;1233:1 Huisman (9) 1102:20,21;1124:21, 23;1128:6;1146:22; 1176:24;1177:2; 1184:7 Huisman's (1) 1210:17 hundred (5) 1111:22;1112:4; 1137:20;1144:4; 1175:23 hypothesis (5) 1137:12,14;1139:23, 24;1245:24 hypothetical (1) 1244:13 I IA (1)	imagined (1) 1194:11 immediate (1) 1258:6 impact (8) 1106:2,6;1143:5,24; 1165:16;1182:7; 1191:18;1254:19 impacted (1) 1144:11 impacts (2) 1152:8;1191:6 implemented (1) 1169:24 implications (1) 1244:11 implore (1) 1171:23 importance (1) 1160:10 important (7) 1169:9;1171:4,24; 1172:15;1173:24; 1235:1;1244:10 impossible (3) 1148:12;1206:23; 1210:7 improvement (1) 1175:11 improves (1)	independent (8) 1131:4;1132:1; 1159:21;1186:8,11,17; 1231:15;1252:23 indicate (1) 1208:13 indicated (2) 1186:19;1222:11 indirect (1) 1127:13 individual (17) 1119:7;1146:11; 1153:13;1162:8; 1185:15;1230:15,22; 1231:2,6;1238:20; 1243:5;1244:7,16; 1245:24;1246:2,15,20 individually (1) 1205:22 individuals (1) 1119:14 industrial (2) 1202:11;1229:22 Industries (1) 1232:21 industry (4) 1166:23;1167:1; 1234:20,21 inflating (1) 1115:4
hedonic (13) 1116:5;1125:1,3; 1127:23;1130:15,23; 1133:19,22;1134:17; 1143:7;1149:4,17; 1191:17 height (13) 1107:13,19;1109:4; 1110:5,17;1111:3,7,13; 1117:21,23;1118:5,7, 21 heights (8) 1108:2,6,15;1109:4, 8,15,21;1110:1 Heintzelman (2) 1129:5;1130:13 held (1) 1133:13 Hello (1) 1147:10 help (1) 1124:24 helped (1) 1157:19 helps (3) 1121:23;1122:3,5 Here's (1) 1133:2 Hewson (26)	hit (1) 1165:24 Hoen's (1) 1191:20 hold (3) 1136:23,24;1138:10 holding (3) 1139:2;1141:4; 1173:23 holds (1) 1171:3 home (27) 1114:12;1116:8,9; 1117:22;1118:18; 1125:2,6,8,9,20; 1126:21,21;1127:8; 1130:20;1134:13; 1141:13,13;1142:4,6,8; 1145:9;1148:12,13; 1150:3;1152:20; 1153:13;1223:22 homeowner (1) 1145:14 homeowners (1) 1136:24 homes (51) 1104:7,12;1118:16, 17;1119:22,24;1120:2, 8,18;1121:9,11,13;	1102:18;1108:4,17 how's (1) 1150:18 hub (18) 1107:13,18;1108:1, 6,15;1109:4,8,14,15, 21;1110:1,5,17;1111:2, 7,13;1118:5,21 Huh (2) 1212:5;1233:1 Huisman (9) 1102:20,21;1124:21, 23;1128:6;1146:22; 1176:24;1177:2; 1184:7 Huisman's (1) 1210:17 hundred (5) 1111:22;1112:4; 1137:20;1144:4; 1175:23 hypothesis (5) 1137:12,14;1139:23, 24;1245:24 hypothetical (1) 1244:13	imagined (1) 1194:11 immediate (1) 1258:6 impact (8) 1106:2,6;1143:5,24; 1165:16;1182:7; 1191:18;1254:19 impacted (1) 1144:11 impacts (2) 1152:8;1191:6 implemented (1) 1169:24 implications (1) 1244:11 implore (1) 1171:23 importance (1) 1160:10 important (7) 1169:9;1171:4,24; 1172:15;1173:24; 1235:1;1244:10 impossible (3) 1148:12;1206:23; 1210:7 improvement (1) 1175:11	independent (8) 1131:4;1132:1; 1159:21;1186:8,11,17; 1231:15;1252:23 indicate (1) 1208:13 indicated (2) 1186:19;1222:11 indirect (1) 1127:13 individual (17) 1119:7;1146:11; 1153:13;1162:8; 1185:15;1230:15,22; 1231:2,6;1238:20; 1243:5;1244:7,16; 1245:24;1246:2,15,20 individually (1) 1205:22 individuals (1) 1119:14 industrial (2) 1202:11;1229:22 Industries (1) 1232:21 industry (4) 1166:23;1167:1; 1234:20,21 inflating (1)

-				1
1107:1;1121:10;	1125:1,4,15,17;1136:7,	1102:20;1124:19;	Labor (4)	leads (1)
1125:19;1126:13,20;	12;1137:16;1139:22;	1146:21	1172:22;1181:20;	1123:11
1131:14,17;1144:21;	1145:2;1149:12;	job (1)	1200:4;1257:10	learned (1)
1152:5;1156:11;	1153:10,14;1166:15;	1148:17	Labor's (1)	1160:13
1179:14;1180:7;	1172:14;1173:22;	John (6)	1200:3	leasing (1)
1257:20	1181:1,10;1225:4;	1102:12;1147:10;	lack (1)	1232:2
initial (2)	1236:15,22;1248:8,19;	1207:11,12,22,24	1162:17	least (6)
1250:12;1251:2	1250:16,22,12 10:0,15,	journal (1)	land (6)	1107:9;1153:8,23;
initially (2)	introduced (1)	1111:23	1163:3;1171:6;	1155:24;1174:12;
1120:3,18	1247:20	journals (2)	1217:6,8,9,21	1235:8
inside (2)	introductory (1)	1111:24;1112:2	landfill (2)	leave (1)
1122:19;1124:2	1196:8	judging (1)	1220:15,16	1138:14
insight (1)	Invenergy (13)	1119:5	landfilled (3)	Lee (11)
1225:4	1107:14;1112:12,21;	June (1)	1219:23;1221:15;	1109:24;1238:7,13;
insignificant (2)	1174:21;1175:1;	1197:15	1222:3	1241:2,5,7,10,19;
1145:3,15	1189:12;1194:19,24;	justify (1)	landfilling (1)	1243:15,17,19
installation (1)	1195:12;1245:22;	1122:13	1220:1	left (4)
1187:22	1246:14;1252:8,22	1122110	landfills (5)	1103:10;1131:24;
installed (1)	Invenergy's (5)	K	1160:23;1184:5;	1149:14;1173:23
1226:1	1196:17;1198:24;		1186:2;1220:7,14	legislative (1)
instance (1)	1246:19;1252:14,18	keep (15)	landowner (1)	1158:19
1128:24	involved (7)	1125:20;1127:4;	1183:14	lenders (2)
instead (4)	1159:2;1176:5,9,13,	1170:24;1177:21;	landowners (9)	1159:7,10
1179:3;1193:20;	16;1177:4;1202:24	1178:6,13;1180:9;	1159:7,11;1174:8,	length (1)
1210:8;1243:2	involvement (3)	1183:13,16;1185:5;	10;1175:16,21;1182:9,	1197:9
Institute (1)	1201:1,7,13	1188:3;1193:14;	9;1183:15	less (8)
1232:20	Iowa (1)	1235:1;1247:15;	landscaping (2)	1115:15;1122:12;
institutions (1)	1109:19	1252:8	1216:23;1217:5	1134:21;1142:4;
1176:15	Iron (1)	kept (3)	landscaping/seeding/cleanup (1)	1152:3;1154:3;
insurance (1)	1160:22	1113:15;1153:17;	1216:17	1171:14;1181:18
1245:18	irrevocable (1)	1177:18	large (12)	letter (1)
intends (1)	1256:4	Kewaunee (2)	1121:19,20,21;	1256:4
1156:9	ISRI (3)	1110:12,13	1122:10;1144:15;	level (5)
interaction (1)	1232:21,24;1233:2	K-E-W-A-U-N-E-E (1)	1162:12;1172:8,14;	1118:11;1175:9;
1153:12	issue (4)	1110:13	1174:17;1200:6;	1183:5;1198:17;
interest (4)	1102:24;1135:18;	key (2)	1234:10;1252:18	1237:15
1130:16;1198:19;	1158:22;1258:2	1139:21,22	larger (6)	Levine (16)
1223:21;1252:8	issues (2)	Kiefer (3)	1109:14;1135:20;	1185:16,23;1186:1,
interested (5)	1115:13;1159:19	1102:14,15;1260:8	1136:15;1178:22,22;	24;1192:17;1203:1;
1113:20;1126:23;	item (4)	kind (19)	1258:1	1204:3;1205:7;1206:1;
1155:9,16;1156:3	1183:24;1226:18,20;	1107:5,23;1108:8,	largest (2)	1220:5,10;1223:3;
interesting (2)	1227:22	23;1116:9,19;1126:10;	1252:22;1253:16	1231:7,9;1232:16,17
1129:11;1152:12	Iverson (2)	1136:14;1147:4;	last (15)	Levine's (1)
international (2)	1102:16,17	1155:5,6;1181:9,11;	1104:7;1105:22;	1187:10
1235:5,7	_	1202:12;1204:6;	1111:12;1122:7,8;	Lewis (2)
Internet (1)	J	1206:19;1224:15;	1135:24;1156:22;	1129:17,19
1165:5		1237:11;1259:10	1162:10;1181:22;	liability (3)
interpretation (2)	Jackson (2)	king (1)	1187:4;1196:22;	1171:1,2;1174:18
1129:12;1137:6	1142:19;1143:20	1142:19	1198:20;1219:22;	lieu (1)
interrupt (1)	Jacob (3)	knowing (1)	1220:6;1246:3	1173:20
1201:6	1185:16;1192:17;	1127:15	later (8)	life (6)
interrupted (1)	1206:5	knowledge (4)	1106:1,5,14;	1243:4,5,9;1249:14;
1167:12	James (1)	1111:17;1177:8;	1127:19;1155:13;	1251:11;1252:10
intersections (1)	1155:22	1225:12;1246:14	1171:12;1175:8;	lifetime (3)
1145:11	January (10)	known (1)	1208:24	1171:17,18;1246:3
interstate (1)	1102:5;1103:1,3,6,7;	1232:21	latest (2)	light (1)
1146:14	1114:13;1207:2;	knows (3)	1144:21;1236:4	1129:6
intervals (1)	1208:4,22,23	1172:23;1221:19,21	law (3)	likelihood (1)
1198:14	Jason (1)	T	1185:7,8;1223:6	1243:12
into (30)	1112:18	L	lawyer (1)	likely (4)
1114:23;1115:2;	Jerry (1)	1.1.(4)	1206:17	1118:1;1171:18;
1116:20;1118:8,23;	1259:15	label (1)	LCB (2)	1234:18;1235:9
1119:18;1120:17;	Joan (3)	1226:23	1241:13,16	limit (1)
	1	I.	<u> </u>	1

		T		T
1200:20	1171:16;1178:5,9,10;	1103:21,24;1104:2;	marked (11)	McLean (7)
limited (4)	1210:23;1222:14;	1107:21;1113:6,9,10,	1184:22;1185:13;	1161:1;1189:9;
1118:7;1171:1,2;	1229:24	15;1154:24;1156:9,16,	1186:24;1190:3;	1190:1;1192:6,19,21;
1174:18	longer (1)	17,18,20,24;1157:8;	1193:1;1195:20;	1190.1,1192.0,19,21,
limits (1)	1259:13	1163:12;1176:19;	1195.1,1195.20,	mean (35)
1173:21				1104:17,20,24;
	long-term (2)	1186:15;1193:24;	1222:22;1241:8; 1250:21	
line (21)	1250:6,7	1197:7,15;1202:8;		1105:3,10;1119:9;
1140:21,24;1141:1,	look (26)	1206:19;1208:8;	marker (1) 1133:1	1120:16;1130:20;
1,15;1142:3,7;1143:5;	1104:10;1108:3;	1209:4;1215:13,16;		1135:15;1137:24;
1145:4,8,19;1190:4,12,	1114:11;1118:16;	1217:5,11;1221:16,20;	market (26)	1138:11;1140:1;
23;1191:2,8;1218:24;	1119:2;1126:3;	1233:17;1247:1,6,20;	1115:1;1125:2,5,9,	1141:20;1144:23;
1225:15;1226:18,20;	1129:12;1142:20;	1259:12	16,18,19,22;1126:4,7,	1145:6,7,11,24;1146:2;
1227:22	1145:7,17;1148:19,24;	Luetkehans's (5)	11,19;1127:3,8,14,24;	1166:5;1171:13;
lines (14)	1149:19,20;1153:24;	1155:19;1185:8,20;	1160:20;1165:23,23;	1172:2;1174:11;
1140:15,19;1142:16,	1164:21;1171:16;	1187:6;1234:15	1187:17;1234:11,16;	1178:2,14;1185:10;
19,22;1143:4,19,22;	1178:21;1182:22;	lump (2)	1236:14,17;1257:21,24	1186:10;1205:12;
1144:2,24;1145:8,17,	1211:12;1213:1;	1217:19;1229:4	marketplace (1)	1217:12;1220:10;
20;1151:21	1227:10;1229:2;	M	1248:8	1229:11;1233:12;
link (1)	1236:23;1250:19;	IVI	markets (3)	1234:23;1237:19;
1127:1	1258:5	M P (2)	1235:5,7,8	1258:17
list (4)	looked (3)	Madison (2)	MaRous (1)	means (13)
1125:20;1156:7;	1117:22;1119:14;	1111:5,12	1155:12	1138:12;1139:1;
1171:16;1176:12	1236:2	magnitude (1)	Massachusetts (4)	1160:7;1166:9,18,22,
literature (9)	looking (14)	1258:23	1141:18;1142:2,11,	24;1169:16;1174:20,
1119:15,18;1142:15,	1108:12,22,24;	main (1)	14	24;1213:17;1217:3;
21;1143:3,16;1144:16;	1113:16;1125:7;	1147:17	master's (1)	1247:2
1148:7,11	1136:6;1146:12;	mainly (1)	1112:24	meant (2)
little (17)	1148:18;1152:20;	1187:16	material (9)	1113:12;1226:23
1103:13,15;1107:6,	1153:17;1155:21;	Mainstream (2)	1160:6;1184:3;	measurable (1)
21;1108:8;1114:9;	1166:9;1176:17;	1238:11;1239:18	1221:13;1222:1,16,17;	1126:13
1115:15;1118:2;	1190:10	maintain (2)	1223:11;1235:20;	measure (9)
1134:21;1138:6;	looks (9)	1175:14;1200:6	1258:19	1116:20;1117:20;
1162:2;1163:7;	1130:10;1146:18;	major (3)	materials (5)	1118:19;1127:14,18,
1164:11;1167:15;	1161:11;1167:3,6;	1159:3,5;1220:2	1160:20;1164:8;	19;1140:10;1146:10,
1183:3;1190:19;	1196:11;1199:8;	majority (2)	1223:14;1233:6;	17
1228:13	1239:13;1259:4	1205:16,18	1257:9	measured (1)
lives (3)	lose (1)	makes (5)	math (2)	1132:5
1152:18,23;1170:23	1148:1	1107:21;1133:15,17;	1236:9,12	measures (1)
Livingston (15)	lost (1)	1160:13;1247:17	matter (5)	1117:2
1102:6,7;1129:4;	1105:1	making (1)	1132:24;1157:23,24;	measuring (1)
1141:16;1158:3;	lot (7)	1217:6	1163:3;1211:21	1118:6
1160:23;1169:24;	1122:2,2;1130:14;	man (4)	maximize (2)	mechanical (2)
1174:21;1175:2;	1158:21;1160:6;	1211:18,19;1212:18;	1247:14,15	1245:5,16
1180:13;1220:15,16;	1165:20;1182:14	1229:18	Maximum (4)	median (1)
1241:23;1256:10;	Lots (2)	manage (1)	1108:16;1109:23;	1134:16
1258:5	1147:19;1193:9	1172:21	1110:3;1111:6	meeting (8)
LLC (3)	lousy (3)	management (2)	may (27)	1102:3,24;1103:2,3,
1102:8;1174:13,16	1164:6;1194:7,10	1203:14;1205:2	1113:18,21;1126:15;	5;1241:10;1259:5,16
LLCs (1) 1254:2	love (1) 1126:6	manager (1)	1128:17;1145:19;	meetings (1) 1259:8
		1157:17	1146:5;1154:12,16;	
local (16)	low (6) 1164:1;1167:15;	many (17) 1110:7;1111:23;	1156:5;1162:15; 1171:10;1174:2,6;	megawatt (1) 1248:11
1159:17;1160:18;				
1163:3;1165:21,23;	1218:3;1238:2;	1121:9,22;1125:20;	1178:23,24;1179:1,3,4;	megawatts (2)
1166:2,3,11;1167:11,	1239:21;1249:24	1139:5;1148:14;	1180:7;1241:11;	1252:2;1253:8
19;1184:10,11;1186:2;	lower (7)	1159:16;1167:8;	1243:8,10;1245:5,24;	member (3)
1225:4;1234:12;	1127:12,20;1135:20;	1176:5;1178:3,5;	1246:3;1256:22;	1232:20,22,23 MEMBERS (1)
1235:10	1194:4,4;1241:12;	1182:11;1203:23;	1257:24	MEMBERS (1)
location (1)	1258:2	1211:21;1213:14;	maybe (10)	1260:10
1175:11	lowered (2)	1253:12 March (1)	1105:1;1108:11;	memorandum (1)
Loda (1)	1127:9,10	March (1)	1125:11;1128:18;	1207:11
1232:10	lsfla1000 (2)	1193:2	1131:22;1134:1;	mention (1)
long (10)	1153:21;1154:1	margin (2)	1164:5;1180:6;1181:5;	1117:15
1127:3,8;1167:4;	Luetkehans (37)	1237:11,17	1225:8	mentioned (9)
-	1	1	1	1

1207:22 Mercifully (1) 1256:18 met (2) 1105:13;1113:3 Metal (7) 1160:22,23;1180:19, 21;1181:10;1198:8;	1229:5;1235:24; 1236:16;1253:18,23; 1258:10,13,13,14 mills (1) 1235:15 mind (4) 1114:8;1170:24; 1176:3;1178:6 Mine (2) 1148:2;1237:1 minimum (1) 1161:9 minus (7)	1104:24;1105:9; 1117:15,24;1119:20; 1124:5;1140:10; 1152:9;1165:21; 1173:5;1180:5,9; 1196:5,9;1201:19; 1206:11;1209:15; 1210:2;1215:21; 1235:9;1238:4; 1244:21;1247:14; 1250:19 Mortensen (1)	Narvick (1) 1161:1 national (2) 1235:4,8 natural (1) 1172:1 near (3) 1138:19;1144:2,10 nearby (2) 1129:21;1148:8	16 nominal (1) 1115:6 None (6) 1108:1,13;1109:21; 1162:2;1179:17; 1225:12 nor (1) 1113:3
1182:13;1195:4; 1199:4;1203:18; 1207:22 Mercifully (1) 1256:18 met (2) 1105:13;1113:3 Metal (7) 1160:22,23;1180:19, 21;1181:10;1198:8; 1234:21 meter (7)	1258:10,13,13,14 mills (1) 1235:15 mind (4) 1114:8;1170:24; 1176:3;1178:6 Mine (2) 1148:2;1237:1 minimum (1) 1161:9 minus (7)	1124:5;1140:10; 1152:9;1165:21; 1173:5;1180:5,9; 1196:5,9;1201:19; 1206:11;1209:15; 1210:2;1215:21; 1235:9;1238:4; 1244:21;1247:14; 1250:19	national (2) 1235:4,8 natural (1) 1172:1 near (3) 1138:19;1144:2,10 nearby (2) 1129:21;1148:8	1115:6 None (6) 1108:1,13;1109:21; 1162:2;1179:17; 1225:12 nor (1) 1113:3
1199:4;1203:18; 1207:22 Mercifully (1) 1256:18 met (2) 1105:13;1113:3 Metal (7) 1160:22,23;1180:19, 21;1181:10;1198:8; 1234:21 meter (7)	mills (1) 1235:15 mind (4) 1114:8;1170:24; 1176:3;1178:6 Mine (2) 1148:2;1237:1 minimum (1) 1161:9 minus (7)	1152:9;1165:21; 1173:5;1180:5,9; 1196:5,9;1201:19; 1206:11;1209:15; 1210:2;1215:21; 1235:9;1238:4; 1244:21;1247:14; 1250:19	1235:4,8 natural (1) 1172:1 near (3) 1138:19;1144:2,10 nearby (2) 1129:21;1148:8	None (6) 1108:1,13;1109:21; 1162:2;1179:17; 1225:12 nor (1) 1113:3
1207:22 Mercifully (1) 1256:18 met (2) 1105:13;1113:3 Metal (7) 1160:22,23;1180:19, 21;1181:10;1198:8; 1234:21 meter (7)	1235:15 mind (4) 1114:8;1170:24; 1176:3;1178:6 Mine (2) 1148:2;1237:1 minimum (1) 1161:9 minus (7)	1173:5;1180:5,9; 1196:5,9;1201:19; 1206:11;1209:15; 1210:2;1215:21; 1235:9;1238:4; 1244:21;1247:14; 1250:19	natural (1) 1172:1 near (3) 1138:19;1144:2,10 nearby (2) 1129:21;1148:8	1108:1,13;1109:21; 1162:2;1179:17; 1225:12 nor (1) 1113:3
Mercifully (1) 1256:18 met (2) 1105:13;1113:3 Metal (7) 1160:22,23;1180:19, 21;1181:10;1198:8; 1234:21 meter (7)	mind (4) 1114:8;1170:24; 1176:3;1178:6 Mine (2) 1148:2;1237:1 minimum (1) 1161:9 minus (7)	1196:5,9;1201:19; 1206:11;1209:15; 1210:2;1215:21; 1235:9;1238:4; 1244:21;1247:14; 1250:19	1172:1 near (3) 1138:19;1144:2,10 nearby (2) 1129:21;1148:8	1162:2;1179:17; 1225:12 nor (1) 1113:3
1256:18 met (2) 1105:13;1113:3 Metal (7) 1160:22,23;1180:19, 21;1181:10;1198:8; 1234:21 meter (7)	1114:8;1170:24; 1176:3;1178:6 Mine (2) 1148:2;1237:1 minimum (1) 1161:9 minus (7)	1206:11;1209:15; 1210:2;1215:21; 1235:9;1238:4; 1244:21;1247:14; 1250:19	near (3) 1138:19;1144:2,10 nearby (2) 1129:21;1148:8	1225:12 nor (1) 1113:3
met (2) 1105:13;1113:3 Metal (7) 1160:22,23;1180:19, 21;1181:10;1198:8; 1234:21 meter (7)	1176:3;1178:6 Mine (2) 1148:2;1237:1 minimum (1) 1161:9 minus (7)	1210:2;1215:21; 1235:9;1238:4; 1244:21;1247:14; 1250:19	1138:19;1144:2,10 nearby (2) 1129:21;1148:8	nor (1) 1113:3
1105:13;1113:3 Metal (7) 1160:22,23;1180:19, 21;1181:10;1198:8; 1234:21 meter (7)	Mine (2) 1148:2;1237:1 minimum (1) 1161:9 minus (7)	1235:9;1238:4; 1244:21;1247:14; 1250:19	nearby (2) 1129:21;1148:8	1113:3
Metal (7) 1160:22,23;1180:19, 21;1181:10;1198:8; 1234:21 meter (7)	1148:2;1237:1 minimum (1) 1161:9 minus (7)	1244:21;1247:14; 1250:19	1129:21;1148:8	
1160:22,23;1180:19, 21;1181:10;1198:8; 1234:21 meter (7)	minimum (1) 1161:9 minus (7)	1250:19	/	
21;1181:10;1198:8; 1234:21 meter (7)	1161:9 minus (7)			normally (1)
1234:21 meter (7)	minus (7)	Mortoncon (1)	necessarily (1)	1166:22
meter (7)			1242:19	North (1)
		1230:23	necessary (1)	1252:22
1108:6,15:1109:4,/;	1105:6;1140:16,19;	most (9)	1198:18	note (2)
	1150:24;1151:5;	1115:10;1164:13;	need (15)	1220:4;1225:20
1110:17;1111:2;	1237:13,20	1165:6;1170:24;	1103:11;1106:21;	notice (1)
	minute (2)	1171:6,13;1173:7;	1114:11;1121:9;	1251:8
meters (9) 1107:19;1108:2,21;	1121:2;1154:21	1235:20,22	1139:22;1172:9;	noticing (1) 1171:12
1107:19;1108:2,21; 1109:15,22;1110:22,	minutes (3) 1189:1;1209:7;	mostly (4) 1115:10;1153:2;	1180:11;1182:19; 1199:2;1219:23;	November (1)
23,23;1111:13	1241:9	1170:12;1248:17	1238:23;1240:2;	1220:5
	miss (1)	motion (1)	1250:1,2;1260:4	nullify (1)
1177:14;1243:2	1128:10	1260:4	needs (1)	1149:14
*	missed (1)	motions (1)	1162:5	number (57)
1102:9	1182:1	1260:7	negative (13)	1104:7,11;1109:14;
	missing (2)	move (4)	1130:6;1137:15;	1118:21;1119:21,23;
1230:12,16,17	1127:1,6	1103:2;1134:2;	1138:22;1140:8;	1122:9,14;1125:1,4,16,
	misspeak (1)	1228:18;1241:1	1141:7,9;1142:24;	24;1133:6;1134:14;
1230:12	1217:9	moved (2)	1143:5,24;1146:3,5;	1138:22,22;1139:3,10;
	Mitigation (1)	1103:7;1127:2	1151:12;1154:9	1140:8,18;1143:3;
1204:18	1254:19	Moving (2)	negatively (5)	1148:24;1149:13;
midst (1)	Mix (1)	1259:7,10	1132:20;1137:3;	1150:8,11;1153:21;
1114:20	1161:2	much (18)	1139:10;1140:5;	1158:16;1162:15;
	MLS (2)	1113:6,11;1127:12;	1141:2	1164:18;1166:14;
1106:19;1108:22;	1125:20;1126:16	1128:4;1148:20;	neighbor (1)	1168:3;1173:20,21;
	mobilization (3)	1149:6;1163:15;	1153:14	1175:22;1183:20;
1142:9;1144:4,6;	1168:14,15,16	1166:13,14;1167:7,9;	neighborhood (3)	1185:19;1186:18;
	mobilize (1)	1181:15,18;1182:18;	1116:12,14;1131:5	1189:2;1190:3;1197:9;
1149:1;1170:6;	1168:9	1193:15;1217:4;	neighbor's (1)	1206:7,14;1209:23;
	model (26)	1219:3;1237:23	1153:12	1211:19;1212:18;
1180:6;1181:24,24;	1105:5,6;1116:5,18,	multiple (2)	neither (2)	1213:6,18;1227:10;
1190:18;1196:4;	24;1118:3,23;1125:1,3,	1191:9;1209:21	1154:14;1216:10	1228:18,18,22;1236:2,
1199:16;1245:18;	10,15;1127:18;	multiply (2)	net (2)	23;1237:2;1239:2;
1258:12	1130:15,23;1131:3,10,	1138:4;1165:19	1163:16,19	1250:3;1258:18 numbering (1)
mile (19) 1104:13;1119:24;	11,21;1143:7;1149:4, 17;1153:9,10,16;	multi-year (2) 1249:10,18	New (5) 1111:12;1133:3;	1187:4
1104.13,1119.24, 1122:8,19;1123:22;	1248:14;1252:14	municipalities (3)	1146:6;1179:6;	numbers (29)
	modelling (5)	1159:6,10;1172:18	1182:10	1122:15;1141:20,21;
1151:1,6,9,9,11;	1127:23;1133:23;	must (3)	next (14)	1149:14;1150:6;
1153:3,4,4,4;1154:3,6	1187:18,23;1248:19	1140:8;1194:11,20	1110:19;1142:7;	1153:18,18,20,22,22;
	models (2)	Myself (1)	1155:19,22,24;	1163:13,14,23;1166:2;
1120:5,5;1121:4,11,	1124:3;1125:14	1212:7	1168:10,12,12,12;	1169:9,20;1181:4,17;
	moment (2)	1212.7	1206:22;1210:6;	1187:7;1190:9;1206:8,
1151:6;1172:4;	1112:10;1186:23	N	1259:5,16,21	22;1212:14;1225:21;
	Monday (1)	- 1	Nielsen (1)	1228:16;1229:2;
million (32)	1104:7	name (9)	1102:22	1241:13,13;1253:11
	money (5)	1114:1,2;1155:1;	nobody (2)	number's (3)
1163:19,20,21;	1172:14;1173:3,6,9;	1156:22,22,23;1157:4,	1144:18;1147:18	1138:24;1150:24;
1164:15,15,17;	1178:13	6;1207:22	Nobody's (2)	1151:12
	months (4)	named (1)	1247:24;1248:1	
17,23,24;1175:24;	1210:10;1211:7;	1185:15	noise (9)	0
1181:16;1183:21,21,	1244:22;1245:1	nameplate (1)	1146:5,7,10,12;	
23;1197:2;1219:4;	more (24)	1253:7	1189:16,19;1190:5,13,	Oak (6)

1189:9,24;1192:7;	one (145)	1111:2,9,15;1118:7,13,	originally (1)	1177:4
1193:3,6,12	1105:22;1107:1,4,	15;1127:7;1135:5;	1231:14	overseen (1)
Objection (4)	24;1108:12;1110:19;	1139:23;1147:19;	others (2)	1203:12
1197:7;1215:13;	1111:12;1112:5,7,10,	1149:14;1150:13;	1134:23;1162:4	own (4)
1221:16;1247:1	16;1115:17;1116:16,	1151:19,23;1152:7;	otherwise (1)	1159:21;1231:15;
objective (1)	17,20;1117:15,20;	1159:3;1171:2;	1246:15	1232:1,1
1252:11	1119:20;1123:17;	1180:19;1183:20;	ours (3)	owner (1)
objectives (1)	1124:2;1129:17,21;	1184:4,4;1239:22;	1135:6;1167:15;	1251:8
1247:13	1131:8,12,20;1132:5,	1249:6	1183:22	ownership (1)
observation (1)	12,24;1133:1,7;	operate (4)	out (70)	1256:15
1123:17	1134:8;1135:9,11,24;	1200:6;1246:16,21;	1106:13;1108:23;	owning (1)
observations (5)	1139:3,20;1142:18,20;	1252:12	1114:18;1121:9;	1174:18
1104:23;1105:13;	1143:2,16,19;1144:8;	operated (1)	1122:9;1123:4,17;	owns (1)
1123:8;1132:3;1170:4	1148:4;1149:10,11,19;	1245:1	1124:15;1125:24;	1232:3
observe (1) 1178:16	1150:20,21,22;	operating (22) 1144:10;1162:8,10,	1126:13;1132:11; 1133:18,23;1134:9;	P
obtained (1)	1151:17;1152:3; 1153:3,4;1154:3,6,11,	16,20,22;1178:14;	1135:16,23,1134.9, 1135:9;1138:8,12,12;	1
1203:20	14;1155:9,11,18;	1180:8;1193:7,10;	1139:2,16;1140:1,2;	pack (1)
obviously (4)	1158:20;1161:23;	1244:3,3,21;1245:3,6,	1149:14;1155:10,18;	1215:2
1105:13;1158:16;	1162:10;1164:7;	8;1247:13;1249:22;	1158:10;1159:2;	pad (3)
1248:22;1251:15	1165:1,1,6,14;1166:6;	1252:9;1253:6,18,23	1160:18,19;1162:16;	1223:16,20;1224:1
occasions (1)	1168:11;1170:9;	operation (1)	1163:9;1165:14;	pad-mounted (2)
1226:5	1171:20;1172:3;	1145:1	1167:5;1169:7,21;	1227:7;1229:18
Occupational (1)	1173:21;1177:11,13;	operational (3)	1170:15;1171:5,10;	pads (9)
1207:6	1181:22;1185:1,2,3,5;	1129:15,18;1130:9	1170:13,1171:3,10,	1172:7;1182:3;
occur (1)	1186:1;1187:4;	operator (1)	1179:15,23;1180:21;	1224:7,8,12,13,16,17,
1243:3	1194:12,16;1199:11;	1195:1	1182:15,20;1183:1,4,	19
occurred (1)	1207:21;1208:4,14,15,	opinion (2)	14,17,19,21,23;	page (61)
1246:9	16,16,16,17,19,20,22,	1165:12;1210:20	1184:11;1185:22;	1107:5,24;1108:3,
o'clock (1)	23,24,24;1209:5,6,12,	opponents (6)	1190:8;1192:12;	22,24;1109:10,18;
1222:12	12,13,13,13,20,20;	1186:20;1189:1,9;	1195:16;1204:21;	1110:12,20;1111:5,11;
October (2)	1210:1,17,21;1214:8;	1194:15;1238:5,6	1206:21;1212:1;	1114:10;1125:11;
1158:1;1175:8	1220:11,14;1223:2;	opportunity (4)	1216:11;1227:17,19;	1149:20;1180:17;
odd (1)	1229:9;1232:3,14;	1156:12,13,14,15	1228:21;1239:1;	1186:6;1187:11;
1206:6	1234:15;1235:16;	opposed (7)	1245:10;1257:4;	1190:3,7,8,10,17,22;
oddly (1)	1238:4,8,19,24;1239:2,	1115:6;1165:3;	1260:1,12	1191:2,3;1196:17,22;
1238:14	6,21;1240:21;1241:4,	1178:15;1183:1,4;	Outlook (1)	1204:15,18;1205:9;
off (11)	6;1244:4,13;1245:2,4,	1240:6;1260:11	1207:7	1210:4,6;1213:2,7;
1103:10;1105:14,15;	15;1248:24;1249:5,18,	optimal (1)	output (3)	1216:16;1217:16;
1110:11;1120:16;	20;1254:2;1257:6;	1252:9	1248:15,17;1252:1	1218:18;1219:6,6,10,
1125:21;1166:16;	1259:16,21;1260:1	option (3)	outside (9)	19;1223:16;1224:1;
1169:2;1173:6;1178:7;	one-by-one (1)	1116:17,17;1250:13	1111:19;1121:11,16;	1225:13;1232:8;
1185:2	1168:2 Oneida (1)	order (27)	1122:17;1123:24;	1234:8;1236:24,24;
off-line (2) 1162:13;1180:10	1111:6	1102:3;1137:13;	1136:22;1147:17;	1237:1;1239:14,18;
offset (1)	O-N-E-I-D-A (1)	1139:21;1155:6,6; 1160:8,19;1166:9;	1193:21;1231:22 over (14)	1240:23;1241:13,16; 1250:23;1254:5,8,14;
1122:15	1111:6	1171:24;1172:9;	1106:12;1118:16;	1250.25,1254.5,8,14,
often (1)	ones (13)	1171:24;1172:9; 1175:4;1178:13;	1106:12;1118:16; 1123:18;1145:6;	pages (15)
1164:12	1108:13;1115:19;	1181:2,13,17;1182:16;	1161:10;1167:24;	1108:12;1136:1;
Oklahoma (2)	1120:13;1122:19;	1187:5;1195:21;	1196:20;1197:2;	1190:17;1191:7,9;
1108:5;1109:12	1132:4;1159:2;	1196:3;1197:20;	1222:17;1235:24;	1196:9;1197:24;
older (1)	1179:23;1180:1,2,20;	1198:1;1201:17;	1250:3,5;1253:17,22	1198:6;1199:1;1207:4,
1170:16	1182:14;1194:4;	1202:15;1205:2;	over[sic] (1)	18;1242:11,16;1255:1,
OLS (5)	1249:16	1212:19;1252:5;	1169:4	16
1153:3,4,7,8,22	one's (2)	1258:22	overall (3)	panoramic (1)
on/off (1)	1173:6;1228:12	ordinance (6)	1163:13,15;1248:8	1147:21
1132:5	one-time (1)	1238:14,19;1241:24;	overhead (1)	papers (1)
once (11)	1167:24	1242:4,6;1256:10	1205:1	1113:2
1168:4;1177:12,22;	one-zero (1)	ordinary (1)	overlay (1)	paragraph (6)
1179:12;1182:3;	1131:10	1153:8	1145:9	1198:13;1205:19;
1208:15,18,20;	only (30)	original (3)	overlooked (1)	1234:9;1241:17;
1234:10;1243:1;	1106:20;1109:8;	1171:6;1182:19;	1145:22	1250:23;1255:18
1249:23	1110:4,5,16,16,23;	1207:16	overseeing (1)	part (14)
-				
Min II Sovint®	A roo Wide	Donorting and Video Co.	nforonoina	(13) Objection nort

	T		T	<i>5411441</i>
1105:23;1106:8;	percent (43)	1179:12	1133:19,22;1135:4;	1159:1;1176:16;
1121:17;1144:24;	1111:22;1112:4;	pieces (3)	1138:17,17;1139:3;	1187:16;1193:15;
1151:7;1162:18;	1122:12;1134:13,15;	1164:10,11;1181:10	1140:4;1161:12;	1201:18;1245:1;
1175:20;1179:7;	1136:5,5,8,9,10,13,13,	place (5)	1162:19,23;1163:2;	1247:14;1248:12,15,
1193:14;1224:23;	13;1137:20;1138:2,3,	1123:19;1129:2;	1176:22;1198:11;	17;1249:3,7,17;
1228:2;1234:20;	4;1140:16,20;1141:2,	1123.19,1129.2, 1168:11;1170:17;	1203:16;1204:21	1250:7;1251:12,14,15,
1244:10;1254:15	4;1140:10,20,1141.2, 4;1142:4,9;1144:5,6;	1180:9	points (1)	17,21;1252:2,5,23
			1121:22	
participating (1)	1149:2,22;1150:3,24;	placed (3)		PowerPoint (2)
1182:9	1151:12,14;1175:10,	1221:9;1223:18;	policy (1)	1130:19;1140:13
particular (11)	12,13,23;1184:3;	1256:5	1246:19	practice (1) 1193:14
1106:15;1107:7;	1236:14;1237:20,21,	places (1)	pool (17)	
1112:1;1115:24;	22,23;1238:1,2	1170:15	1133:21,22;1134:4,	practices (1)
1120:11;1147:11,24;	percentage (3)	Plan (17)	7,8,8,10,13,16,20,24;	1157:21
1149:19;1159:8;	1122:11,11;1237:13	1158:2;1177:9;	1135:19,20,20;	precise (1)
1160:17;1186:1	perform (1)	1202:1,5,18;1236:20;	1148:20,21,22	1258:18
parties (2)	1232:5	1238:15,17;1242:9,24;	populated (1)	precisely (1)
1113:20;1155:9	performance (3)	1254:5;1255:15;	1120:24	1140:10
partners (1)	1173:17,17;1174:2	1256:14;1257:15,16;	population (4)	predict (3)
1202:22	performed (2)	1259:1,10	1115:24;1116:4,13;	1118:3,4,20
party (1)	1191:17,21	planned (1)	1117:4	prediction (2)
1156:4	period (7)	1211:5	portability (1)	1105:6,6
Parzyck (5)	1114:19;1120:2,10;	planning (2)	1143:7	preexisting (1)
1155:21,24;1247:12,	1130:8,9;1162:22;	1204:15;1205:2	portfolio (1)	1217:21
21;1259:20	1211:3	plans (2)	1178:8	preferential (1)
Parzyck's (1)	periodic (1)	1202:15;1203:3	portion (4)	1251:8
1247:9	1198:16	plant (2)	1184:4;1197:17;	prepared (4)
past (2)	Periodically (2)	1176:18;1216:15	1200:23;1218:10	1158:4;1194:14;
1138:18;1164:2	1234:22,23	planting (1)	posit (4)	1195:5,9
pattern (1)	permit (3)	1182:17	1206:3,5,8,10	preparers (1)
1179:18	1171:22;1175:11;	plants (3)	positive (9)	1185:16
pay (3)	1244:20	1159:2;1176:16;	1137:14;1138:23;	presence (1)
1164:22;1165:3;	permits (1)	1201:18	1140:8;1141:7,9;	1124:1
1233:9	1171:20	Pleasant (35)	1143:12;1146:4,5;	present (2)
paying (1)	permitted (2)	1102:8,9;1106:24;	1151:12	1155:1;1156:11
1165:9	1211:1,7	1107:15;1158:2,7;	positively (3)	presentation (1)
peer (4)	permitting (1)	1184:22;1187:1;	1137:2;1139:10;	1247:21
1106:8,10,11;	1204:15	1189:22;1192:14,16,	1140:6	presented (1)
1111:24	person (7)	18,20;1193:1;1195:20;	posits (1)	1257:13
pending (1)	1112:23;1113:3;	1196:6;1200:1;1207:1,	1205:20	presently (2)
1219:9	1118:10;1119:4;	6,8,10,13;1208:3,21;	possibility (2)	1157:9;1205:8
Pennsylvania (3)	1172:19;1202:17;	1222:23;1236:7;	1136:21;1139:9	pressed (1)
1108:6;1110:20;	1235:11	1239:1,2,5,9;1241:9;	possible (5)	1147:2
1111:2	personally (1)	1242:22;1250:21;	1137:22;1138:21;	presumably (1)
people (18)	1177:3	1254:20;1257:4	1190:20;1223:22;	1229:7
1112:6;1119:15;	perspective (2)	please (11)	1245:2	presupposes (1)
1121:13;1155:16;	1172:17;1203:14	1102:4;1112:10,16;	possibly (2)	1242:24
1164:22;1173:7;	phase (2)	1156:21;1157:2,4;	1139:14;1180:22	pretty (4)
1176:5;1178:3;1181:5;	1155:7;1156:3	1176:12;1197:13,15;	post (1)	1119:15,17;1237:5;
1184:5;1200:11;	Phil (1)	1215:20;1233:17	1111:24	1239:21
1202:23;1206:11,23;	1208:7	plowable (1)	post-announcement (2)	previously (2)
1202:23,1200:11,23, 1211:3,21;1252:12;	phone (1)	1182:23	1129:24;1130:1	1120:1;1250:20
1258:1	1220:12	plugged (1)	post-announcement/preconstruction (1)	price (35)
Peoria (1)	photographs (2)	1236:15	post-announcement/preconstruction (1) 1130:3	1125:7;1126:12,12,
1161:2	- C			
	1118:4,19	plus (5)	post-announcement/preoperation (1) 1130:4	15,15,19;1127:4,9,9,
per (17)	phrase (1)	1216:22;1227:16;		11,11,13,20;1131:3;
1196:19,21;1197:2;	1198:21	1228:12;1237:13,20	post-construction (4)	1133:5,9,10,11;
1206:14;1214:5,7;	picked (1)	pm (4)	1129:8,19,22;	1134:13,16;1150:3;
1224:4;1225:17;	1165:1	1102:1;1155:3,3;	1150:23	1152:19;1153:11,12,
1228:22;1229:12;	pictures (2)	1260:13	potential (1)	13;1160:20;1165:5,15,
1236:8,21;1239:22;	1118:17;1119:11	podium (3)	1243:24	23;1198:7;1234:17;
1240:10,16,19;1241:19	piece (1)	1103:16,18;1113:24	potentially (2)	1235:4,9,13;1257:19
perceive (1)	1227:15	point (17)	1137:1;1139:5	prices (7)
1119:16	piecemeal (1)	1124:17;1132:22;	power (22)	1127:24;1131:23;
	1	1	1	<u> </u>

			T	Junuary 11, 2016
1152:20;1153:14;	1217:3	1169:24;1174:21;	qualify (3)	1225:6;1228:13;
1165:8,23;1234:12	profess (1)	1175:2;1198:18	1120:22;1221:13;	1241:22
pricing (1)	1193:10	protection (3)	1222:2	reading (6)
1232:10	professional (3)	1176:2;1221:4;	quantify (1)	1181:22;1207:21;
primarily (1)	1188:5;1202:17;	1222:24	1173:15	1217:6,22;1219:21;
	1255:6			
1159:1		protocols (1)	quarter (3)	1228:15
primary (3)	progresses (1)	1105:23	1115:11,13,14	ready (2)
1167:17;1247:12;	1106:16	proven (2)	quick (4)	1109:2;1161:2
1248:24	project (71)	1106:13;1145:1	1102:23;1112:11;	real (8)
Princeton (1)	1102:9;1107:14,15,	proves (1)	1147:4;1157:13	1112:11;1114:11,24;
1157:16	15;1157:17;1158:2;	1149:5	quickly (4)	1115:5;1132:16,18,21;
principal (1)	1159:23;1160:5;	provide (4)	1144:3,7;1190:20;	1245:21
1157:11	1162:9,12,24;1170:6,	1206:19;1243:21;	1223:22	realistic (1)
principals (1)	14,21;1172:6,21;	1250:18;1257:9	quiet (2)	1140:22
1199:11	1173:2;1174:14,15;	provided (3)	1147:18,18	realize (1)
printed (1)	1178:4;1189:9,13;	1158:16;1206:13;	quite (7)	1187:3
1190:8	1192:7;1193:12,15;	1224:18	1117:13;1119:22;	realized (1)
printing (1)	1194:15,17,19,21;	provides (4)	1137:21;1139:11,12;	1160:12
1210:7	1195:1,17,23;1196:17;	1225:3;1255:18,23;	1185:3;1253:24	really (9)
printout (1)	1201:22;1202:21;	1256:14	quorum (1)	1118:9,9;1122:13,
1187:10	1203:8,13,14;1205:21;	providing (2)	1102:23	16,22;1135:17;1136:6;
prior (2)	1210:9,13,24;1211:6;	1187:17;1189:11	quote (1)	1138:17;1178:7
1127:17;1189:4	1210.9,13,24,1211.0,	provisions (4)	1182:23	reason (14)
priori (1)	1212:12;17,20;	1221:3,7;1223:9;	quotes (1)	1128:15;1170:11;
1133:17	1214.16,1220.24, 1223:4;1225:5;	1241:23	1220:4	1178:2,12;1181:3;
Probabilities (1)	1227:15;1238:7;	proximity (7)	1220.4	1176.2,12,1161.3,
1162:3			R	
probably (13)	1241:3,11;1242:22;	1117:20;1118:15;	N.	1213:21,23;1231:14;
1134:20,22;1142:21;	1243:5;1245:22; 1246:4,15,21;1248:20;	1146:13;1148:9; 1150:16;1151:23;	raise (1)	1245:4;1253:10,19,21 reasonable (3)
			1157:2	
1159:18;1165:21; 1181:3;1196:2;	1249:14;1251:11,16,	1152:7		1123:13;1164:18; 1179:20
	22,24;1252:6,9;1258:4, 10,15	proxy (1) 1146:12	ran (1) 1118:2	
1197:19;1200:11;				reasons (3)
1206:5;1216:14;	projects (27)	public (14)	range (5)	1171:16;1179:3;
1235:22;1238:2	1176:6,10,13;	1103:17;1147:5;	1124:6,8;1158:22;	1249:18
problem (5)	1178:6;1187:20;	1155:8;1158:18;	1162:12;1238:2	recall (4)
1127:15;1128:1;	1188:9,15,22;1193:9;	1159:6;1182:2;	rank (1)	1189:8,13;1238:8,13
1138:1;1144:4;	1194:22;1200:7;	1195:14,16,22;1197:4;	1252:24	receive (3)
1208:12	1201:2,5,9,15;1205:3;	1198:1,19,24;1207:8	rate (4)	1131:9;1134:7;
problems (1)	1230:3,15,22;1231:2,6;	publication (2)	1119:5;1165:10;	1258:14
1228:15	1232:6,6;1248:4;	1111:23;1167:3	1167:19;1229:10	received (2)
proceeding (10)	1251:18;1252:15;	published (1)	rated (2)	1175:7;1231:16
1189:15,24;1190:22;	1255:12	1107:9	1174:3,4	recent (2)
1193:19;1196:14;	project's (2)	pull (1)	rates (3)	1180:5;1238:5
1202:7,24;1203:18;	1243:4;1257:10	1174:4	1166:9;1167:6;	Recess (2)
1239:11;1243:15	promise (2)	Punch (2)	1172:23	1155:3;1260:4
proceedings (4)	1104:3;1106:21	1259:15,24	rather (2)	recession (1)
1186:21;1192:20;	properties (1)	purchase (8)	1118:3;1232:1	1114:19
1197:10;1205:17	1152:14	1249:3,17;1250:7;	rating (1)	reclaim (1)
process (12)	property (9)	1251:12,14,17;1252:2,	1118:18	1217:21
1106:8,11;1114:9;	1129:21;1130:11;	5	ratios (1)	reclamation (7)
1119:18;1120:13,14,	1141:1;1145:8;	purposes (2)	1126:1	1201:2,8,15;
15,17;1131:20;1155:7;	1147:13;1148:8;	1172:8;1258:4	Rautmann (1)	1202:20;1203:8,13;
1160:15;1235:12	1152:13;1191:7,18	put (16)	1255:7	1218:1
processing (2)	proposal (2)	1103:19;1115:1,3;	Rautmann's (3)	recognize (5)
1235:17,18	1175:4,6	1130:18;1131:7,7;	1247:5,8;1255:11	1187:9;1195:24;
procurement (1)	proposed (7)	1202:19;1203:7,10,10;	reach (2)	1196:7,10;1239:12
1187:20	1107:14;1140:24;	1217:1;1223:11;	1169:7;1243:13	recollection (1)
produced (1)	1162:1;1174:21;	1230:22;1231:1,6,17	reacted (1)	1189:21
1193:15	1175:1;1196:18;	putting (3)	1170:19	recommendation (1)
production (1)	1254:18	1132:10,24;1254:2	read (10)	1197:21
1247:14	proposing (1)		1123:23;1197:18;	record (14)
productivity (3)	1175:22	Q	1198:13,19;1200:10;	1106:23;1107:17;
1160:9;1167:4;	protect (4)		1206:23;1210:7;	1136:19;1156:22;
			1	<u> </u>

			I	June 1, 2010
1158:9,15;1192:11,22;	1136:10,11,12,15;	1163:22;1167:17	1214:24;1215:5,10;	1187:22;1257:20
1197:23;1207:5;	1137:16;1138:3,9;	repaired (1)	1238:14,19;1243:10	retained (1)
1238:23;1246:23;	1139:15,18,22	1177:18	required (3)	1195:12
1250:22;1259:17	related (2)	repeat (11)	1211:18;1212:19;	retired (2)
records (2)	1128:23;1248:11	1127:16,19,21,22;	1241:19	1162:4;1207:24
1126:17,24	relates (1)	1128:1,1;1174:23;	requirement (4)	return (4)
recovery (1)	1246:24	1197:14,16;1231:1,5	1170:13;1180:1,5;	1171:5;1172:1;
1219:11	relative (5)	repeatedly (1)	1244:19	1182:16,19
recycled (2)	1125:24;1131:12;	1185:21	requirements (6)	returned (1)
1235:20;1236:1	1140:14;1153:11;	rephrase (1)	1180:3,5;1210:5;	1214:20
recycling (7)	1242:10	1221:22	1238:21;1242:5;	returning (2)
1160:20,22,23;	relax (1)	replaced (1)	1256:9	1214:23;1215:4
1161:11,14;1232:20;	1233:24	1226:6	research (4)	reuse (2)
1233:6	released (1)	replacement (3)	1105:23;1161:7;	1219:12;1235:12
redid (1)	1111:18	1216:21;1217:2;	1187:18,22	reused (1)
1128:16	relevance (2)	1219:1	researched (1)	1219:23
reduction (1)	1154:17;1197:7	replacing (1)	1181:11	revenue (4)
1144:5	reliability (2)	1179:9	resell (1)	1248:10,18,22;
refer (4)	1247:15;1248:15	report (54)	1184:2	1249:2
1108:11;1205:9;	rely (1) 1232:9	1119:17;1139:4;	reserve (1) 1184:9	Review (8)
1206:7;1209:7 referenced (1)		1158:1,4,6;1160:7;	residents (1)	1102:7;1106:8,10, 11;1157:24;1158:3;
1125:11	remain (1) 1180:2	1175:3,8;1184:19; 1185:12,16;1186:1,6,7;	1170:1	11,1137.24,1138.3,
references (2)	remark (1)	1195:10;1196:13,17;	residual (6)	reviewed (14)
1123:22;1254:18	1129:7	1193.10,1190.13,17,	1104:23;1105:4,7,8,	1111:24;1173:7;
referring (2)	Remember (25)	1204:12;1205:10,24;	9,10	1183:12;1191:20;
1224:8;1227:7	1104:8;1110:10;	1204:12,1203:10,24,	residuals (1)	1221:10;1242:3;
reflect (1)	1116:2;1122:17;	20;1209:8;1212:1;	1105:15	1246:23;1247:4,8,9;
1187:14	1131:22;1163:18;	1213:3;1217:16,22;	resizing (1)	1250:12,14,15;1255:11
reflects (1)	1173:3;1189:6,11,15,	1218:5,16;1219:6,15,	1181:20	Rich (2)
1203:19	17;1190:21;1193:10;	19;1223:17;1224:2;	resources (2)	1260:8,8
refresh (1)	1194:12,16,17,20;	1225:14;1228:24;	1173:14;1258:6	Richard (1)
1189:21	1197:19;1234:1;	1231:16,17;1232:9;	respect (2)	1102:14
refute (1)	1236:21,23;1238:15,	1234:8;1237:8;	1238:7;1248:3	Ridge (39)
1246:18	18,20;1248:2	1239:10,16,17;	responded (1)	1102:8,9;1106:24;
regarding (2)	removal (13)	1240:24;1242:2,5,13;	1185:21	1107:15;1158:2,8;
1197:10;1246:20	1213:4,9;1217:13,	1243:8;1255:5	response (3)	1184:23;1187:1;
region (13)	24;1218:22;1223:16,	reporter (2)	1185:19;1210:17;	1189:22;1192:14,16,
1136:11,11,12,15,17;	20;1224:1,11,13;	1157:5;1197:18	1234:15	18,20;1193:1;1194:15,
1137:7,16;1138:3,9;	1225:15;1243:10;	reports (5)	responsibilities (1)	18;1195:20,23;1196:6,
1139:18,22;1145:3;	1254:10	1106:11;1111:18;	1234:20	14;1200:1;1207:1,6,8,
1160:19	remove (3) 1167:8;1213:13;	1193:16;1194:8; 1201:11	rest (2) 1106:22;1144:15	10,13;1208:3,21; 1222:23;1236:7;
regional (2) 1115:8,10	1217:20	represent (9)	restoration (2)	1239:1,2,5,9;1241:9;
registered (1)	removed (5)	1189:23;1190:18;	1217:12;1254:15	1242:22;1250:21;
1188:5	1104:16;1179:12;	1194:23;1196:7;	restored (1)	1254:20;1257:4
regression (1)	1205:22;1214:19,19	1200:2;1228:17;	1182:5	Ridge's (1)
1153:9	removes (1)	1229:15;1236:3;	result (1)	1198:15
regular (1)	1149:6	1240:3	1173:8	right (191)
1198:14	removing (1)	represented (2)	results (19)	1102:2;1103:9;
regulations (4)	1179:13	1113:21;1256:22	1105:19;1106:3,6;	1110:10;1113:8,17,18,
1221:5,10;1223:1,15	renewable (3)	representing (1)	1115:20;1117:6;	23;1114:19;1115:22;
regulatory (1)	1157:21;1178:7;	1153:6	1123:1,4,6,11,15,18;	1116:2;1118:15;
1187:23	1187:17	represents (1)	1127:23;1128:3;	1121:1,4,7,19;1124:16,
rehabilitation (1)	Renewables (1)	1236:13	1129:23;1135:23;	18;1128:5,9;1130:10,
1219:1	1238:11	Requested (1)	1148:10,19;1150:4;	14;1133:4,6,8;1134:6,
reject (11)	rental (6)	1197:17	1153:3	11,22;1135:1,24;
1137:13;1138:13,13,	1147:16;1152:13,14;	requesting (1)	resume (9)	1137:24;1140:3;
13,16;1139:14,16,16,	1163:23;1167:19;	1112:6	1155:2;1158:10,12;	1141:24;1147:6,14;
23,24,24	1172:23	require (13)	1189:2,8;1192:15;	1149:8,9,17;1150:5,9;
rejected (1)	rented (1)	1111:24;1112:2;	1194:13;1195:5;	1151:5;1152:4;1153:5;
1198:23	1152:18	1179:1,20;1180:16;	1199:8	1154:2,8,12,15;1155:5;
rejection (10)	repair (2)	1198:17;1205:20;	retail (2)	1156:1,2;1157:1,2,20;
-			1	1

-				
1162:18;1165:2;	robustness (4)	1135:10,10,16,17;	1209:23;1214:8;	1128:2
1169:22;1176:21;	1105:18;1115:21;	1136:24;1250:22	1234:9;1239:1,3;	seven (6)
	1116:23;1123:3	San (2)	1260:7	
1183:22;1184:10,13,				1111:9;1121:4;
16;1185:12;1187:13;	robustness-type (1)	1134:15,18	seconds (3)	1158:20;1190:16;
1188:2,7,18,20;	1115:12	saw (2)	1199:16;1260:8,8	1211:7;1229:5
1189:12,21;1190:15;	role (1)	1125:11;1175:3	Section (15)	several (7)
1191:11;1192:6;	1202:16	saying (18)	1123:21;1204:14;	1116:6,16;1134:23;
1193:11;1194:18,19;	roll (1)	1120:8;1124:4;	1227:24;1242:11,16,	1159:17;1249:16;
1195:4,9,14,17,19;	1102:3	1137:22;1147:24;		1251:19;1260:7
			18,20;1254:5,8,9,10,	
1196:12,16;1197:4,23;	roughly (4)	1148:5,20;1150:5;	15,24;1255:14,16	severe (1)
1199:18,24;1201:24;	1159:19;1161:14;	1152:8;1153:23;	sections (1)	1245:17
1202:19,23;1203:17;	1229:13;1252:2	1170:19;1173:7,18;	1222:23	sewage (1)
1204:12,14;1206:3,6,	route (1)	1179:16;1217:24;	sectors (1)	1200:9
12,17;1208:15;1209:2,	1140:24	1227:17;1240:4;	1187:17	shadow (1)
5,18;1210:1,2;	RS (8)	1243:11;1258:3	seeding (1)	1190:21
1211:10;1212:15;	1160:7;1166:8,18,	scale (1)	1217:9	shall (1)
1213:10;1214:1,15,20,	21,24;1169:16;	1118:11	seeing (3)	1251:7
22;1218:7;1219:18;	1213:17;1217:3	scenario (2)	1123:15;1170:19;	share (1)
1220:8;1221:12,22;	run (1)	1127:10;1142:11	1171:11	1179:14
1222:5;1224:11,15;	1131:10	scenic (1)	seem (1)	sheepsfoot (3)
1225:2,13,23;1227:1,2,	running (4)	1182:7	1153:19	1214:2,10,11
4,19;1228:1,6;1229:10,	1134:9;1177:18,22;	scheduled (2)	seems (1)	shoes (1)
24;1230:2,4;1231:24;	1247:16	1103:1;1155:22	1127:5	1176:4
1232:4,8,19;1233:14,	rush (1)	scheduling (1)	selection (2)	shorten (1)
16,23;1234:14;	1170:12	1102:24	1120:13,14	1199:16
1235:23;1236:3,13,15,	rusting (2)	SCHOPP (7)	sell (4)	shorter (2)
18;1237:3,9,15;	1162:17;1170:17	1102:5,12,14,16,18,	1129:9;1160:15;	1124:7;1211:3
1238:18,22;1240:6,17;		20,22	1218:8;1235:11	show (10)
1241:1,22;1242:8,8;	\mathbf{S}	science (1)	seller (1)	1127:11,13;1135:23;
1243:1;1245:3,10,19;		1106:16	1126:21	1138:18;1150:4;
1247:19;1248:4,10,16,	safe (2)	scientific (3)	selling (3)	1160:2;1161:7;
20,23;1249:11,20,23;		1142:21;1144:21;	1126:12,15;1127:20	1227:11,23;1229:3
	1142:8;1179:10			
1250:1,8,17;1251:8,10,	sake (1)	1148:11	SEM (6)	shown (3)
12,16,24;1252:7,17,21;	1245:6	scope (8)	1153:4,4,7,9,22;	1178:1;1247:24;
1253:1,5,10,21;	sale (10)	1162:19;1172:13;	1154:11	1248:1
1254:14;1255:14;	1125:6;1127:11,16,	1173:18;1178:12;	send (1)	shows (3)
1256:20,23,24;	17,17,19;1134:13;	1212:24;1244:6,10,24	1222:17	1130:5;1140:16;
1258:21,22;1259:4;	1152:20;1153:13;	scrap (46)	sense (2)	1210:9
1260:3,6	1219:11	1160:11,14,18;	1152:2;1247:18	shrink (1)
right-hand (3)	sales (16)	1164:9,12,15,16,22,23,	sensitivity (2)	1135:16
1131:4;1208:5;	1104:16;1114:12;	23;1165:3,21;1166:3;	1115:21;1116:23	side (1)
1241:12	1120:10;1125:10,15,	1172:21;1173:5,12,22;	sentence (3)	1131:4
ring (1)	23,24;1126:2;1127:21,	1180:23;1186:2;	1123:23;1186:7;	significant (16)
1247:23	22;1128:1,1;1129:8;	1198:7;1203:4;	1196:22	1136:2,3,23;
risk (9)	1138:14;1187:23;	1227:12,19;1228:3;	separate (1)	1138:19;1139:8;
1170:1;1173:12,12,	1245:14	1232:9,9,14,20;1233:6,	1198:15	1144:11,24;1154:15;
13,13,15,21;1174:7,22	Salvage (11)	8,9,10;1234:11,12,21;	September (1)	1164:13;1165:6;
River (5)	1160:21;1165:2;	1235:1,2,3,7,10,13,14;	1114:13	1187:3;1230:9;1237:5;
1238:7;1239:11;	1166:1;1168:21,22,23;	1236:14;1257:19,21,22	series (2)	1249:19,22;1250:2
1241:3,11;1243:15	1180:23;1228:3;	scraping (2)	1181:17;1244:8	significantly (4)
road (11)	1232:10,12,17	1217:6,9	Service (8)	1131:18;1136:3,22;
1147:18,19;1163:22;	same (26)	scrapped (1)	1195:15,17,22;	1177:14
1167:16;1183:22;	1129:23;1133:12,13;	1234:10	1197:5;1198:1,24;	similar (2)
1213:3;1217:13;	1134:19;1135:7,8,10,	scrapping (1)	1207:8;1248:23	1126:2;1146:13
1218:21;1219:12;	10;1144:17;1161:16,	1180:19	Services (1)	
				simply (1)
1221:13;1222:1	17;1162:2;1163:1;	scratch (1)	1160:24	1179:8
roads (17)	1165:8,24;1179:4;	1186:14	set (16)	simultaneously (1)
1172:2,4,5;1182:2,2,	1182:24;1185:2;	screen (3)	1112:1;1120:3,11,	1205:24
2,15,17;1183:24;	1186:18;1205:19;	1104:8,12;1106:4	19,20;1122:15;1128:4;	sine (3)
1200:7;1213:1;1214:3,	1207:15;1214:1;	seal (1)	1129:13,16;1137:11;	1153:23;1154:13,17
		, ,		
14,18;1217:15,18,20	1227:5;1239:2,13;	1255:9	1146:11;1168:9;	single (4)
Rob (1)	1243:14	second (8)	1179:21;1235:4,7,10	1143:3;1152:16,17;
1259:15	sample (6)	1112:16;1208:17;	sets (1)	1174:12

sit (2)	sooner (1)	1178:13	1162:5;1172:12;	1114:2,3,5;1124:11
1173:1;1192:8	1171:12	spent (2)	1175:18,19;1179:13;	sticking (1)
site (5)	Sorry (17)	1199:9;1213:2	1190:2;1192:13;	1260:12
1118:10;1176:17;	1106:19;1108:23;	spoken (1)	1222:16	stigma (1)
1219:2;1224:4;	1113:10,15;1120:6,6;	1155:17	started (7)	1130:7
1229:11	1147:6;1157:2;1163:8,	sporadic (1)	1104:5;1114:20;	still (8)
sitting (1)	11;1166:16;1167:11;	1243:10	1157:18;1170:12;	1103:5;1114:22;
1162:16	1197:8;1201:6;1217:8;	spot (1)	1173:4;1178:7;1188:1	1132:23;1136:23;
situation (3)	1222:8;1242:13	1168:10	starting (6)	1144:13;1180:2;
1129:4;1148:3;	sort (3)	spread (2)	1156:3;1186:14;	1207:23;1219:6
1172:3	1149:6;1163:4;	1134:15;1215:24	1190:4,23;1191:2;	stipulate (5)
situations (1)	1222:10	Spring (6)	1196:19	1107:18;1208:7,8,
1260:1	sound (2)	1108:20,20,21;	starts (5)	23;1209:4
six (8) 1104:11,13,24;	1121:4;1236:15 sounds (1)	1109:3,6,7 spurious (1)	1107:5;1191:8; 1198:6;1215:22;	stipulated (1) 1107:20
1104.11,13,24,	1247:17	1123:2	1254:5	stop (2)
1114:14;1156:8;	source (1)	square (8)	State (11)	1157:1;1162:7
1190:16	1249:6	1116:8;1120:23;	1113:1,2,24;	stopped (4)
sixth (2)	sources (1)	1121:24;1132:1,2;	1156:21;1157:4;	1162:10,20,22;
1175:12;1257:7	1249:5	1214:5;1216:18,21	1158:19,19,20;1223:7;	1180:7
Sixty (1)	southwest (1)	squares (1)	1225:5;1239:4	street (1)
1136:24	1147:20	1153:8	statement (3)	1257:23
size (9)	space (1)	stabilizing (1)	1144:13;1221:21;	Stroud (1)
1117:16;1135:10,10,	1126:3	1172:8	1253:22	1207:11
16,17;1137:17;1179:5;	span (1)	stable (3)	statements (1)	structural (2)
1181:3,14	1114:14	1123:7,11,15	1144:9	1116:7;1131:5
sizing (2)	spans (1)	staff (3)	States (6)	structures (1)
1164:8;1181:6	1129:14	1124:16;1199:23;	1128:22;1144:16;	1254:10
SLAGEL (4)	spatial (2)	1256:24	1159:4;1178:8;	studies (10)
1147:1,6,9,10 small (18)	1153:10,11 spatially-weighted (1)	Stamberg (2) 1207:12,22	1235:21;1236:1 statistic (3)	1106:12;1127:6; 1128:10;1130:11;
1121:21;1122:11,14,	1153:15	stamp (1)	1137:15;1138:17;	1126.10,1130.11,
22,23;1123:1,12,14,17;	speak (1)	1202:18	1137:13,1136:17,	1142:22;1143:21;
1138:22;1139:11,12;	1163:7	stand (1)	statistical (3)	1142:22,1143:21,
1140:9,9;1147:16;	Speaking (3)	1144:22	1125:14;1147:13;	study (48)
1183:19;1184:4;	1106:10;1211:2;	standard (5)	1187:18	1104:20;1105:20,21;
1228:16	1251:10	1104:24;1105:9;	statistically (11)	1106:19,23,24;1107:2,
smaller (4)	special (2)	1137:18;1138:20;	1133:12;1136:1,3,	8,10,24;1108:4;
1128:2,4;1181:10;	1171:20;1244:19	1139:20	23;1138:18;1139:8;	1114:10;1115:2;
1206:14	specialize (1)	standardized (1)	1140:7;1144:11;	1117:19,19,22;1118:2,
soil (3)	1230:5	1104:23	1145:3,15;1151:15	12;1128:13;1129:6,12;
1216:3;1254:11,15	species (1)	standards (1)	statistician (2)	1130:7,12;1131:1;
soils (1)	1191:2	1178:8	1114:8;1148:16	1132:15,17,22;
1214:12	specific (5)	standpoint (2)	statisticians (1)	1133:10,19;1136:1,24;
sold (7) 1120:2,8;1126:17;	1148:12,13;1152:19; 1201:19;1246:8	1163:2;1180:12 Stantec (23)	1137:7 statistics (5)	1138:10;1141:22; 1142:4,11,15,20;
1120.2,8,1120.17,	specifically (3)	1158:1;1160:6;	1132:10;1133:2;	1142.4,11,13,20,
1152:19;1248:12	1140:16;1194:13;	1162:8;1163:16,23;	1132:10,1133:2,	1147:24;1148:18,22,
somebody (3)	1207:18	1164:14;1165:4,11;	1200:4	23;1151:23;1152:24;
1148:2;1210:19;	specifications (6)	1169:5;1175:3,8;	statute (1)	1162:9;1191:22
1234:3	1160:5;1201:10;	1181:2,18,19;1183:21;	1239:4	stuff (1)
someone (5)	1202:20;1203:7,10;	1184:2;1202:6;	stay (3)	1127:21
1160:16;1172:16;	1205:11	1204:21;1208:20;	1219:5;1222:13;	SU-7-14 (1)
1173:8,13;1211:24	specified (1)	1217:18;1219:5,10;	1234:4	1102:8
Somerset (2)	1256:12	1220:19	Staying (5)	subject (2)
1108:5;1110:19	specs (3)	Stantec's (15)	1205:19;1214:1;	1116:23;1122:12
sometimes (6)	1167:17;1201:12;	1163:14,17,19,24;	1216:16;1217:15;	subjective (1)
1106:16;1115:13,14; 1146:3,3;1170:15	1224:18 speculation (2)	1184:19;1213:19; 1218:5,15;1236:19;	1259:13 steel (12)	1118:9 submit (1)
somewhat (2)	1179:6;1183:7	1218:5,15,1230:19; 1237:17;1242:2,4,9,13;	1165:13;1233:10,10;	1111:23
1154:13;1215:24	spell (1)	1257:17,1242.2,4,9,13,	1234:10;1235:3,13,14,	submittal (1)
somewhere (4)	1156:22	start (10)	15,20,24;1236:7,14	1140:17
1150:6,8;1223:12,19	spend (1)	1106:18;1157:19;	STEIDINGER (4)	submitted (4)
	• ` '	, ,		

1195:11;1196:13;		ı		• .
	1192:8;1193:18;	tasks (2)	1112:10;1113:22;	today's (2)
1239:11;1254:20	1194:21;1202:10;	1160:10;1211:18	1114:6;1124:14;	1161:20,21
subsequently (1)	1204:8;1215:3;1217:7;	tdis (1)	1128:9;1146:24;	together (4)
1226:22	1231:19;1237:20;	1154:9	1154:20	1172:13;1202:19;
substantially (3)	1245:9	team (4)	theirs (1)	1203:7;1209:3
1194:4;1206:14;	surface (1)	1111:19;1119:4,14;	1194:22	told (3)
1210:2	1254:11	1142:18	theory (1)	1211:5;1226:22;
			1135:19	1253:17
subtract (4)	surprise (5)	technical (1)		
1130:23;1131:2,16,	1164:1;1235:23;	1153:2	therefore (2)	Tom (5)
19	1247:11;1252:13;	technology (2)	1179:8;1180:8	1142:18;1155:1;
sufficient (3)	1253:4	1178:16;1179:7	thesis (1)	1156:23;1157:6;
1176:2;1217:20;	surprised (1)	ten (8)	1112:24	1222:9
1245:14	1252:16	1123:22;1154:21;	thinking (2)	tomorrow (1)
suggest (2)	surprising (1)	1171:14;1178:19,23;	1112:17;1154:12	1173:22
1169:23;1195:2	1194:2	1222:12;1250:13;	Thomas (2)	ton (5)
suggested (1)	surveyed (3)	1251:9	1192:15;1207:12	1165:3,4,10,10;
1220:20	1160:18,21;1185:22	term (5)	though (5)	1257:23
suggesting (3)	sworn (2)	1182:8;1242:10;	1139:7;1140:6;	tonight (1)
1175:10;1210:12;	1157:1,3	1250:12,23;1251:2	1144:23;1156:10;	1259:14
1238:16	system (1)	terms (36)	1216:11	tons (6)
suggestion (1)	1195:15	1160:14;1161:9;	thought (3)	1165:17,20,20;
1174:1	systems (2)	1164:12;1166:7,12;	1180:11;1231:16;	1235:24;1236:8,9
suggests (3)	1200:7,9	1167:7;1168:12;	1241:5	took (5)
	1200.7,9			
1143:4;1144:22;		1170:18;1171:4,23;	three (16)	1118:17;1131:14,16;
1162:9	T	1172:13,15;1174:17;	1121:3,11,16;	1133:3;1183:1
sum (2)		1175:4;1178:9,11,11;	1122:18;1123:24;	tool (1)
1217:19;1229:4	T&R (1)	1182:21;1183:11;	1124:6;1129:12;	1160:8
summarizes (1)	1161:5	1185:24;1187:4;	1132:8;1147:22;	top (10)
1239:16	tabbed (1)	1188:4;1200:16;	1151:6;1160:24;	1110:11;1153:18;
summary (5)	1108:13	1201:3;1202:15;	1175:13;1206:21;	1182:17;1190:9,10;
1108:4;1157:13;	table (7)	1203:17;1209:21;	1237:21;1241:6;	1223:16;1224:1;
1186:7;1196:9;	1103:16,19;1214:1;	1212:23;1215:22;	1255:19	1236:24;1253:1;
1239:15	1218:18;1219:6,10;	1217:3;1223:19;	threshold (1)	1255:22
supervise (1)	1239:18	1231:22;1235:10;	1136:2	topics (2)
1200:6	takers (1)	1246:8,10;1256:14	threw (2)	1158:23;1189:17
supervised (2)	1220:21	test (5)	1139:2;1211:21	Topsoil (3)
1186:4,5	talk (13)	1106:1,5;1115:19;	throughout (3)	1216:21;1217:1;
		1123:14;1137:11		1210.21,1217.1,
supervising (3)	1107:7,12;1143:19;		1117:7,12;1252:9	
1188:8,14,21			Alamana (7)	
	1174:1;1190:5,13;	tested (1)	throw (7)	torch (1)
supervisory (1)	1193:19,20;1211:24;	1105:18	1138:8,11,12;	torch (1) 1180:21
supervisory (1) 1202:16		1105:18 testified (11)		torch (1)
supervisory (1)	1193:19,20;1211:24;	1105:18	1138:8,11,12;	torch (1) 1180:21
supervisory (1) 1202:16 suppliers (1)	1193:19,20;1211:24; 1212:8;1234:3; 1243:24;1244:12	1105:18 testified (11) 1158:17;1159:13;	1138:8,11,12; 1139:16;1140:1,1; 1211:2	torch (1) 1180:21 torching (1) 1181:9
supervisory (1) 1202:16 suppliers (1) 1159:5	1193:19,20;1211:24; 1212:8;1234:3; 1243:24;1244:12 talked (19)	1105:18 testified (11) 1158:17;1159:13; 1186:20;1193:13;	1138:8,11,12; 1139:16;1140:1,1; 1211:2 Thursday (1)	torch (1) 1180:21 torching (1) 1181:9 total (15)
supervisory (1) 1202:16 suppliers (1) 1159:5 Supply (2)	1193:19,20;1211:24; 1212:8;1234:3; 1243:24;1244:12 talked (19) 1116:2;1119:24;	1105:18 testified (11) 1158:17;1159:13; 1186:20;1193:13; 1197:9,10;1201:3;	1138:8,11,12; 1139:16;1140:1,1; 1211:2 Thursday (1) 1103:3	torch (1) 1180:21 torching (1) 1181:9 total (15) 1122:9;1126:1;
supervisory (1) 1202:16 suppliers (1) 1159:5 Supply (2) 1161:5;1200:9	1193:19,20;1211:24; 1212:8;1234:3; 1243:24;1244:12 talked (19) 1116:2;1119:24; 1129:5,7;1130:14,16;	1105:18 testified (11) 1158:17;1159:13; 1186:20;1193:13; 1197:9,10;1201:3; 1234:14;1238:6;	1138:8,11,12; 1139:16;1140:1,1; 1211:2 Thursday (1) 1103:3 tie (1)	torch (1) 1180:21 torching (1) 1181:9 total (15) 1122:9;1126:1; 1196:18;1211:19;
supervisory (1) 1202:16 suppliers (1) 1159:5 Supply (2) 1161:5;1200:9 support (1)	1193:19,20;1211:24; 1212:8;1234:3; 1243:24;1244:12 talked (19) 1116:2;1119:24; 1129:5,7;1130:14,16; 1140:14,14,15;	1105:18 testified (11) 1158:17;1159:13; 1186:20;1193:13; 1197:9,10;1201:3; 1234:14;1238:6; 1243:7;1248:5	1138:8,11,12; 1139:16;1140:1,1; 1211:2 Thursday (1) 1103:3 tie (1) 1167:18	torch (1) 1180:21 torching (1) 1181:9 total (15) 1122:9;1126:1; 1196:18;1211:19; 1212:18;1224:5;
supervisory (1) 1202:16 suppliers (1) 1159:5 Supply (2) 1161:5;1200:9 support (1) 1245:23	1193:19,20;1211:24; 1212:8;1234:3; 1243:24;1244:12 talked (19) 1116:2;1119:24; 1129:5,7;1130:14,16; 1140:14,14,15; 1160:21;1166:18;	1105:18 testified (11) 1158:17;1159:13; 1186:20;1193:13; 1197:9,10;1201:3; 1234:14;1238:6; 1243:7;1248:5 testify (4)	1138:8,11,12; 1139:16;1140:1,1; 1211:2 Thursday (1) 1103:3 tie (1) 1167:18 tied (2)	torch (1) 1180:21 torching (1) 1181:9 total (15) 1122:9;1126:1; 1196:18;1211:19; 1212:18;1224:5; 1225:18;1227:14,23;
supervisory (1) 1202:16 suppliers (1) 1159:5 Supply (2) 1161:5;1200:9 support (1) 1245:23 suppose (2)	1193:19,20;1211:24; 1212:8;1234:3; 1243:24;1244:12 talked (19) 1116:2;1119:24; 1129:5,7;1130:14,16; 1140:14,14,15; 1160:21;1166:18; 1189:16,18,18;	1105:18 testified (11) 1158:17;1159:13; 1186:20;1193:13; 1197:9,10;1201:3; 1234:14;1238:6; 1243:7;1248:5 testify (4) 1112:12;1156:5,7;	1138:8,11,12; 1139:16;1140:1,1; 1211:2 Thursday (1) 1103:3 tie (1) 1167:18 tied (2) 1249:13,17	torch (1) 1180:21 torching (1) 1181:9 total (15) 1122:9;1126:1; 1196:18;1211:19; 1212:18;1224:5; 1225:18;1227:14,23; 1228:18;1236:6,17;
supervisory (1) 1202:16 suppliers (1) 1159:5 Supply (2) 1161:5;1200:9 support (1) 1245:23 suppose (2) 1117:24;1252:13	1193:19,20;1211:24; 1212:8;1234:3; 1243:24;1244:12 talked (19) 1116:2;1119:24; 1129:5,7;1130:14,16; 1140:14,14,15; 1160:21;1166:18; 1189:16,18,18; 1190:16,21;1191:1,6;	1105:18 testified (11) 1158:17;1159:13; 1186:20;1193:13; 1197:9,10;1201:3; 1234:14;1238:6; 1243:7;1248:5 testify (4) 1112:12;1156:5,7; 1259:15	1138:8,11,12; 1139:16;1140:1,1; 1211:2 Thursday (1) 1103:3 tie (1) 1167:18 tied (2) 1249:13,17 Tile (1)	torch (1) 1180:21 torching (1) 1181:9 total (15) 1122:9;1126:1; 1196:18;1211:19; 1212:18;1224:5; 1225:18;1227:14,23; 1228:18;1236:6,17; 1239:19;1240:7;
supervisory (1) 1202:16 suppliers (1) 1159:5 Supply (2) 1161:5;1200:9 support (1) 1245:23 suppose (2)	1193:19,20;1211:24; 1212:8;1234:3; 1243:24;1244:12 talked (19) 1116:2;1119:24; 1129:5,7;1130:14,16; 1140:14,14,15; 1160:21;1166:18; 1189:16,18,18;	1105:18 testified (11) 1158:17;1159:13; 1186:20;1193:13; 1197:9,10;1201:3; 1234:14;1238:6; 1243:7;1248:5 testify (4) 1112:12;1156:5,7;	1138:8,11,12; 1139:16;1140:1,1; 1211:2 Thursday (1) 1103:3 tie (1) 1167:18 tied (2) 1249:13,17 Tile (1) 1161:2	torch (1) 1180:21 torching (1) 1181:9 total (15) 1122:9;1126:1; 1196:18;1211:19; 1212:18;1224:5; 1225:18;1227:14,23; 1228:18;1236:6,17;
supervisory (1) 1202:16 suppliers (1) 1159:5 Supply (2) 1161:5;1200:9 support (1) 1245:23 suppose (2) 1117:24;1252:13	1193:19,20;1211:24; 1212:8;1234:3; 1243:24;1244:12 talked (19) 1116:2;1119:24; 1129:5,7;1130:14,16; 1140:14,14,15; 1160:21;1166:18; 1189:16,18,18; 1190:16,21;1191:1,6; 1212:3	1105:18 testified (11) 1158:17;1159:13; 1186:20;1193:13; 1197:9,10;1201:3; 1234:14;1238:6; 1243:7;1248:5 testify (4) 1112:12;1156:5,7; 1259:15	1138:8,11,12; 1139:16;1140:1,1; 1211:2 Thursday (1) 1103:3 tie (1) 1167:18 tied (2) 1249:13,17 Tile (1) 1161:2	torch (1) 1180:21 torching (1) 1181:9 total (15) 1122:9;1126:1; 1196:18;1211:19; 1212:18;1224:5; 1225:18;1227:14,23; 1228:18;1236:6,17; 1239:19;1240:7; 1252:1
supervisory (1) 1202:16 suppliers (1) 1159:5 Supply (2) 1161:5;1200:9 support (1) 1245:23 suppose (2) 1117:24;1252:13 supposed (1) 1256:4	1193:19,20;1211:24; 1212:8;1234:3; 1243:24;1244:12 talked (19) 1116:2;1119:24; 1129:5,7;1130:14,16; 1140:14,14,15; 1160:21;1166:18; 1189:16,18,18; 1190:16,21;1191:1,6; 1212:3 talking (12)	1105:18 testified (11) 1158:17;1159:13; 1186:20;1193:13; 1197:9,10;1201:3; 1234:14;1238:6; 1243:7;1248:5 testify (4) 1112:12;1156:5,7; 1259:15 testifying (1) 1189:8	1138:8,11,12; 1139:16;1140:1,1; 1211:2 Thursday (1) 1103:3 tie (1) 1167:18 tied (2) 1249:13,17 Tile (1) 1161:2 times (9)	torch (1) 1180:21 torching (1) 1181:9 total (15) 1122:9;1126:1; 1196:18;1211:19; 1212:18;1224:5; 1225:18;1227:14,23; 1228:18;1236:6,17; 1239:19;1240:7; 1252:1 tough (1)
supervisory (1) 1202:16 suppliers (1) 1159:5 Supply (2) 1161:5;1200:9 support (1) 1245:23 suppose (2) 1117:24;1252:13 supposed (1) 1256:4 supposedly (1)	1193:19,20;1211:24; 1212:8;1234:3; 1243:24;1244:12 talked (19) 1116:2;1119:24; 1129:5,7;1130:14,16; 1140:14,14,15; 1160:21;1166:18; 1189:16,18,18; 1190:16,21;1191:1,6; 1212:3 talking (12) 1106:15;1108:11;	1105:18 testified (11) 1158:17;1159:13; 1186:20;1193:13; 1197:9,10;1201:3; 1234:14;1238:6; 1243:7;1248:5 testify (4) 1112:12;1156:5,7; 1259:15 testifying (1) 1189:8 testimony (14)	1138:8,11,12; 1139:16;1140:1,1; 1211:2 Thursday (1) 1103:3 tie (1) 1167:18 tied (2) 1249:13,17 Tile (1) 1161:2 times (9) 1127:2;1138:5;	torch (1) 1180:21 torching (1) 1181:9 total (15) 1122:9;1126:1; 1196:18;1211:19; 1212:18;1224:5; 1225:18;1227:14,23; 1228:18;1236:6,17; 1239:19;1240:7; 1252:1 tough (1) 1148:4
supervisory (1) 1202:16 suppliers (1) 1159:5 Supply (2) 1161:5;1200:9 support (1) 1245:23 suppose (2) 1117:24;1252:13 supposed (1) 1256:4 supposedly (1) 1149:5	1193:19,20;1211:24; 1212:8;1234:3; 1243:24;1244:12 talked (19) 1116:2;1119:24; 1129:5,7;1130:14,16; 1140:14,14,15; 1160:21;1166:18; 1189:16,18,18; 1190:16,21;1191:1,6; 1212:3 talking (12) 1106:15;1108:11; 1112:23;1162:11;	1105:18 testified (11) 1158:17;1159:13; 1186:20;1193:13; 1197:9,10;1201:3; 1234:14;1238:6; 1243:7;1248:5 testify (4) 1112:12;1156:5,7; 1259:15 testifying (1) 1189:8 testimony (14) 1158:16,22;1188:24;	1138:8,11,12; 1139:16;1140:1,1; 1211:2 Thursday (1) 1103:3 tie (1) 1167:18 tied (2) 1249:13,17 Tile (1) 1161:2 times (9) 1127:2;1138:5; 1159:16;1166:19;	torch (1) 1180:21 torching (1) 1181:9 total (15) 1122:9;1126:1; 1196:18;1211:19; 1212:18;1224:5; 1225:18;1227:14,23; 1228:18;1236:6,17; 1239:19;1240:7; 1252:1 tough (1) 1148:4 towards (1)
supervisory (1) 1202:16 suppliers (1) 1159:5 Supply (2) 1161:5;1200:9 support (1) 1245:23 suppose (2) 1117:24;1252:13 supposed (1) 1256:4 supposedly (1) 1149:5 sure (34)	1193:19,20;1211:24; 1212:8;1234:3; 1243:24;1244:12 talked (19) 1116:2;1119:24; 1129:5,7;1130:14,16; 1140:14,14,15; 1160:21;1166:18; 1189:16,18,18; 1190:16,21;1191:1,6; 1212:3 talking (12) 1106:15;1108:11; 1112:23;1162:11; 1165:17;1167:10;	1105:18 testified (11) 1158:17;1159:13; 1186:20;1193:13; 1197:9,10;1201:3; 1234:14;1238:6; 1243:7;1248:5 testify (4) 1112:12;1156:5,7; 1259:15 testifying (1) 1189:8 testimony (14) 1158:16,22;1188:24; 1189:4,11,23,24;	1138:8,11,12; 1139:16;1140:1,1; 1211:2 Thursday (1) 1103:3 tie (1) 1167:18 tied (2) 1249:13,17 Tile (1) 1161:2 times (9) 1127:2;1138:5; 1159:16;1166:19; 1171:10;1182:15;	torch (1) 1180:21 torching (1) 1181:9 total (15) 1122:9;1126:1; 1196:18;1211:19; 1212:18;1224:5; 1225:18;1227:14,23; 1228:18;1236:6,17; 1239:19;1240:7; 1252:1 tough (1) 1148:4 towards (1) 1107:2
supervisory (1) 1202:16 suppliers (1) 1159:5 Supply (2) 1161:5;1200:9 support (1) 1245:23 suppose (2) 1117:24;1252:13 supposed (1) 1256:4 supposedly (1) 1149:5 sure (34) 1106:16;1112:1;	1193:19,20;1211:24; 1212:8;1234:3; 1243:24;1244:12 talked (19) 1116:2;1119:24; 1129:5,7;1130:14,16; 1140:14,14,15; 1160:21;1166:18; 1189:16,18,18; 1190:16,21;1191:1,6; 1212:3 talking (12) 1106:15;1108:11; 1112:23;1162:11; 1165:17;1167:10; 1174:15;1178:18;	1105:18 testified (11) 1158:17;1159:13; 1186:20;1193:13; 1197:9,10;1201:3; 1234:14;1238:6; 1243:7;1248:5 testify (4) 1112:12;1156:5,7; 1259:15 testifying (1) 1189:8 testimony (14) 1158:16,22;1188:24; 1189:4,11,23,24; 1192:19;1203:19;	1138:8,11,12; 1139:16;1140:1,1; 1211:2 Thursday (1) 1103:3 tie (1) 1167:18 tied (2) 1249:13,17 Tile (1) 1161:2 times (9) 1127:2;1138:5; 1159:16;1166:19; 1171:10;1182:15; 1199:4;1215:18;	torch (1) 1180:21 torching (1) 1181:9 total (15) 1122:9;1126:1; 1196:18;1211:19; 1212:18;1224:5; 1225:18;1227:14,23; 1228:18;1236:6,17; 1239:19;1240:7; 1252:1 tough (1) 1148:4 towards (1) 1107:2 tower (4)
supervisory (1) 1202:16 suppliers (1) 1159:5 Supply (2) 1161:5;1200:9 support (1) 1245:23 suppose (2) 1117:24;1252:13 supposed (1) 1256:4 supposedly (1) 1149:5 sure (34) 1106:16;1112:1; 1113:24;1119:12,22;	1193:19,20;1211:24; 1212:8;1234:3; 1243:24;1244:12 talked (19) 1116:2;1119:24; 1129:5,7;1130:14,16; 1140:14,14,15; 1160:21;1166:18; 1189:16,18,18; 1190:16,21;1191:1,6; 1212:3 talking (12) 1106:15;1108:11; 1112:23;1162:11; 1165:17;1167:10; 1174:15;1178:18; 1181:23;1202:10;	1105:18 testified (11) 1158:17;1159:13; 1186:20;1193:13; 1197:9,10;1201:3; 1234:14;1238:6; 1243:7;1248:5 testify (4) 1112:12;1156:5,7; 1259:15 testifying (1) 1189:8 testimony (14) 1158:16,22;1188:24; 1189:4,11,23,24; 1192:19;1203:19; 1246:24;1247:5,8,9;	1138:8,11,12; 1139:16;1140:1,1; 1211:2 Thursday (1) 1103:3 tie (1) 1167:18 tied (2) 1249:13,17 Tile (1) 1161:2 times (9) 1127:2;1138:5; 1159:16;1166:19; 1171:10;1182:15; 1199:4;1215:18; 1236:8	torch (1) 1180:21 torching (1) 1181:9 total (15) 1122:9;1126:1; 1196:18;1211:19; 1212:18;1224:5; 1225:18;1227:14,23; 1228:18;1236:6,17; 1239:19;1240:7; 1252:1 tough (1) 1148:4 towards (1) 1107:2 tower (4) 1179:2,4,5;1182:3
supervisory (1) 1202:16 suppliers (1) 1159:5 Supply (2) 1161:5;1200:9 support (1) 1245:23 suppose (2) 1117:24;1252:13 supposed(1) 1256:4 supposedly (1) 1149:5 sure (34) 1106:16;1112:1; 1113:24;1119:12,22; 1120:4;1128:10,17,21;	1193:19,20;1211:24; 1212:8;1234:3; 1243:24;1244:12 talked (19) 1116:2;1119:24; 1129:5,7;1130:14,16; 1140:14,14,15; 1160:21;1166:18; 1189:16,18,18; 1190:16,21;1191:1,6; 1212:3 talking (12) 1106:15;1108:11; 1112:23;1162:11; 1165:17;1167:10; 1174:15;1178:18; 1181:23;1202:10; 1214:5;1216:23	1105:18 testified (11) 1158:17;1159:13; 1186:20;1193:13; 1197:9,10;1201:3; 1234:14;1238:6; 1243:7;1248:5 testify (4) 1112:12;1156:5,7; 1259:15 testifying (1) 1189:8 testimony (14) 1158:16,22;1188:24; 1189:4,11,23,24; 1192:19;1203:19; 1246:24;1247:5,8,9; 1252:19	1138:8,11,12; 1139:16;1140:1,1; 1211:2 Thursday (1) 1103:3 tie (1) 1167:18 tied (2) 1249:13,17 Tile (1) 1161:2 times (9) 1127:2;1138:5; 1159:16;1166:19; 1171:10;1182:15; 1199:4;1215:18; 1236:8 timing (2)	torch (1) 1180:21 torching (1) 1181:9 total (15) 1122:9;1126:1; 1196:18;1211:19; 1212:18;1224:5; 1225:18;1227:14,23; 1228:18;1236:6,17; 1239:19;1240:7; 1252:1 tough (1) 1148:4 towards (1) 1107:2 tower (4) 1179:2,4,5;1182:3 towers (2)
supervisory (1) 1202:16 suppliers (1) 1159:5 Supply (2) 1161:5;1200:9 support (1) 1245:23 suppose (2) 1117:24;1252:13 supposed (1) 1256:4 supposedly (1) 1149:5 sure (34) 1106:16;1112:1; 1113:24;1119:12,22; 1120:4;1128:10,17,21; 1129:3;1137:5;1138:5,	1193:19,20;1211:24; 1212:8;1234:3; 1243:24;1244:12 talked (19) 1116:2;1119:24; 1129:5,7;1130:14,16; 1140:14,14,15; 1160:21;1166:18; 1189:16,18,18; 1190:16,21;1191:1,6; 1212:3 talking (12) 1106:15;1108:11; 1112:23;1162:11; 1165:17;1167:10; 1174:15;1178:18; 1181:23;1202:10; 1214:5;1216:23 taller (1)	1105:18 testified (11) 1158:17;1159:13; 1186:20;1193:13; 1197:9,10;1201:3; 1234:14;1238:6; 1243:7;1248:5 testify (4) 1112:12;1156:5,7; 1259:15 testifying (1) 1189:8 testimony (14) 1158:16,22;1188:24; 1189:4,11,23,24; 1192:19;1203:19; 1246:24;1247:5,8,9; 1252:19 testing (1)	1138:8,11,12; 1139:16;1140:1,1; 1211:2 Thursday (1) 1103:3 tie (1) 1167:18 tied (2) 1249:13,17 Tile (1) 1161:2 times (9) 1127:2;1138:5; 1159:16;1166:19; 1171:10;1182:15; 1199:4;1215:18; 1236:8 timing (2) 1171:19;1173:13	torch (1) 1180:21 torching (1) 1181:9 total (15) 1122:9;1126:1; 1196:18;1211:19; 1212:18;1224:5; 1225:18;1227:14,23; 1228:18;1236:6,17; 1239:19;1240:7; 1252:1 tough (1) 1148:4 towards (1) 1107:2 tower (4) 1179:2,4,5;1182:3 towers (2) 1181:14,21
supervisory (1) 1202:16 suppliers (1) 1159:5 Supply (2) 1161:5;1200:9 support (1) 1245:23 suppose (2) 1117:24;1252:13 supposed(1) 1256:4 supposedly (1) 1149:5 sure (34) 1106:16;1112:1; 1113:24;1119:12,22; 1120:4;1128:10,17,21;	1193:19,20;1211:24; 1212:8;1234:3; 1243:24;1244:12 talked (19) 1116:2;1119:24; 1129:5,7;1130:14,16; 1140:14,14,15; 1160:21;1166:18; 1189:16,18,18; 1190:16,21;1191:1,6; 1212:3 talking (12) 1106:15;1108:11; 1112:23;1162:11; 1165:17;1167:10; 1174:15;1178:18; 1181:23;1202:10; 1214:5;1216:23	1105:18 testified (11) 1158:17;1159:13; 1186:20;1193:13; 1197:9,10;1201:3; 1234:14;1238:6; 1243:7;1248:5 testify (4) 1112:12;1156:5,7; 1259:15 testifying (1) 1189:8 testimony (14) 1158:16,22;1188:24; 1189:4,11,23,24; 1192:19;1203:19; 1246:24;1247:5,8,9; 1252:19	1138:8,11,12; 1139:16;1140:1,1; 1211:2 Thursday (1) 1103:3 tie (1) 1167:18 tied (2) 1249:13,17 Tile (1) 1161:2 times (9) 1127:2;1138:5; 1159:16;1166:19; 1171:10;1182:15; 1199:4;1215:18; 1236:8 timing (2)	torch (1) 1180:21 torching (1) 1181:9 total (15) 1122:9;1126:1; 1196:18;1211:19; 1212:18;1224:5; 1225:18;1227:14,23; 1228:18;1236:6,17; 1239:19;1240:7; 1252:1 tough (1) 1148:4 towards (1) 1107:2 tower (4) 1179:2,4,5;1182:3 towers (2)
supervisory (1) 1202:16 suppliers (1) 1159:5 Supply (2) 1161:5;1200:9 support (1) 1245:23 suppose (2) 1117:24;1252:13 supposed (1) 1256:4 supposedly (1) 1149:5 sure (34) 1106:16;1112:1; 1113:24;1119:12,22; 1120:4;1128:10,17,21; 1129:3;1137:5;1138:5,	1193:19,20;1211:24; 1212:8;1234:3; 1243:24;1244:12 talked (19) 1116:2;1119:24; 1129:5,7;1130:14,16; 1140:14,14,15; 1160:21;1166:18; 1189:16,18,18; 1190:16,21;1191:1,6; 1212:3 talking (12) 1106:15;1108:11; 1112:23;1162:11; 1165:17;1167:10; 1174:15;1178:18; 1181:23;1202:10; 1214:5;1216:23 taller (1) 1117:24	1105:18 testified (11) 1158:17;1159:13; 1186:20;1193:13; 1197:9,10;1201:3; 1234:14;1238:6; 1243:7;1248:5 testify (4) 1112:12;1156:5,7; 1259:15 testifying (1) 1189:8 testimony (14) 1158:16,22;1188:24; 1189:4,11,23,24; 1192:19;1203:19; 1246:24;1247:5,8,9; 1252:19 testing (1)	1138:8,11,12; 1139:16;1140:1,1; 1211:2 Thursday (1) 1103:3 tie (1) 1167:18 tied (2) 1249:13,17 Tile (1) 1161:2 times (9) 1127:2;1138:5; 1159:16;1166:19; 1171:10;1182:15; 1199:4;1215:18; 1236:8 timing (2) 1171:19;1173:13	torch (1) 1180:21 torching (1) 1181:9 total (15) 1122:9;1126:1; 1196:18;1211:19; 1212:18;1224:5; 1225:18;1227:14,23; 1228:18;1236:6,17; 1239:19;1240:7; 1252:1 tough (1) 1148:4 towards (1) 1107:2 tower (4) 1179:2,4,5;1182:3 towers (2) 1181:14,21
supervisory (1) 1202:16 suppliers (1) 1159:5 Supply (2) 1161:5;1200:9 support (1) 1245:23 suppose (2) 1117:24;1252:13 supposed (1) 1256:4 supposedly (1) 1149:5 sure (34) 1106:16;1112:1; 1113:24;1119:12,22; 1120:4;1128:10,17,21; 1129:3;1137:5;1138:5, 12,24;1140:18; 1143:17;1145:23,24;	1193:19,20;1211:24; 1212:8;1234:3; 1243:24;1244:12 talked (19) 1116:2;1119:24; 1129:5,7;1130:14,16; 1140:14,14,15; 1160:21;1166:18; 1189:16,18,18; 1190:16,21;1191:1,6; 1212:3 talking (12) 1106:15;1108:11; 1112:23;1162:11; 1165:17;1167:10; 1174:15;1178:18; 1181:23;1202:10; 1214:5;1216:23 taller (1) 1117:24 target (1)	1105:18 testified (11) 1158:17;1159:13; 1186:20;1193:13; 1197:9,10;1201:3; 1234:14;1238:6; 1243:7;1248:5 testify (4) 1112:12;1156:5,7; 1259:15 testifying (1) 1189:8 testimony (14) 1158:16,22;1188:24; 1189:4,11,23,24; 1192:19;1203:19; 1246:24;1247:5,8,9; 1252:19 testing (1) 1123:3 Texas (2)	1138:8,11,12; 1139:16;1140:1,1; 1211:2 Thursday (1) 1103:3 tie (1) 1167:18 tied (2) 1249:13,17 Tile (1) 1161:2 times (9) 1127:2;1138:5; 1159:16;1166:19; 1171:10;1182:15; 1199:4;1215:18; 1236:8 timing (2) 1171:19;1173:13 tiny (1) 1210:7	torch (1) 1180:21 torching (1) 1181:9 total (15) 1122:9;1126:1; 1196:18;1211:19; 1212:18;1224:5; 1225:18;1227:14,23; 1228:18;1236:6,17; 1239:19;1240:7; 1252:1 tough (1) 1148:4 towards (1) 1107:2 tower (4) 1179:2,4,5;1182:3 towers (2) 1181:14,21 track (5) 1125:20;1193:14;
supervisory (1) 1202:16 suppliers (1) 1159:5 Supply (2) 1161:5;1200:9 support (1) 1245:23 suppose (2) 1117:24;1252:13 supposed (1) 1256:4 supposedly (1) 1149:5 sure (34) 1106:16;1112:1; 1113:24;1119:12,22; 1120:4;1128:10,17,21; 1129:3;1137:5;1138:5, 12,24;1140:18; 1143:17;1145:23,24; 1155:11;1163:8;	1193:19,20;1211:24; 1212:8;1234:3; 1243:24;1244:12 talked (19) 1116:2;1119:24; 1129:5,7;1130:14,16; 1140:14,14,15; 1160:21;1166:18; 1189:16,18,18; 1190:16,21;1191:1,6; 1212:3 talking (12) 1106:15;1108:11; 1112:23;1162:11; 1165:17;1167:10; 1174:15;1178:18; 1181:23;1202:10; 1214:5;1216:23 taller (1) 1117:24 target (1) 1124:2	1105:18 testified (11) 1158:17;1159:13; 1186:20;1193:13; 1197:9,10;1201:3; 1234:14;1238:6; 1243:7;1248:5 testify (4) 1112:12;1156:5,7; 1259:15 testifying (1) 1189:8 testimony (14) 1158:16,22;1188:24; 1189:4,11,23,24; 1192:19;1203:19; 1246:24;1247:5,8,9; 1252:19 testing (1) 1123:3 Texas (2) 1108:5,18	1138:8,11,12; 1139:16;1140:1,1; 1211:2 Thursday (1) 1103:3 tie (1) 1167:18 tied (2) 1249:13,17 Tile (1) 1161:2 times (9) 1127:2;1138:5; 1159:16;1166:19; 1171:10;1182:15; 1199:4;1215:18; 1236:8 timing (2) 1171:19;1173:13 tiny (1) 1210:7 today (4)	torch (1) 1180:21 torching (1) 1181:9 total (15) 1122:9;1126:1; 1196:18;1211:19; 1212:18;1224:5; 1225:18;1227:14,23; 1228:18;1236:6,17; 1239:19;1240:7; 1252:1 tough (1) 1148:4 towards (1) 1107:2 tower (4) 1179:2,4,5;1182:3 towers (2) 1181:14,21 track (5) 1125:20;1193:14; 1234:19,21;1235:1
supervisory (1) 1202:16 suppliers (1) 1159:5 Supply (2) 1161:5;1200:9 support (1) 1245:23 suppose (2) 1117:24;1252:13 supposed (1) 1256:4 supposedly (1) 1149:5 sure (34) 1106:16;1112:1; 1113:24;1119:12,22; 1120:4;1128:10,17,21; 1129:3;1137:5;1138:5, 12,24;1140:18; 1143:17;1145:23,24; 1155:11;1163:8; 1170:20;1176:24;	1193:19,20;1211:24; 1212:8;1234:3; 1243:24;1244:12 talked (19) 1116:2;1119:24; 1129:5,7;1130:14,16; 1140:14,14,15; 1160:21;1166:18; 1189:16,18,18; 1190:16,21;1191:1,6; 1212:3 talking (12) 1106:15;1108:11; 1112:23;1162:11; 1165:17;1167:10; 1174:15;1178:18; 1181:23;1202:10; 1214:5;1216:23 taller (1) 1117:24 target (1) 1124:2 task (1)	1105:18 testified (11) 1158:17;1159:13; 1186:20;1193:13; 1197:9,10;1201:3; 1234:14;1238:6; 1243:7;1248:5 testify (4) 1112:12;1156:5,7; 1259:15 testifying (1) 1189:8 testimony (14) 1158:16,22;1188:24; 1189:4,11,23,24; 1192:19;1203:19; 1246:24;1247:5,8,9; 1252:19 testing (1) 1123:3 Texas (2) 1108:5,18 Thayer (9)	1138:8,11,12; 1139:16;1140:1,1; 1211:2 Thursday (1) 1103:3 tie (1) 1167:18 tied (2) 1249:13,17 Tile (1) 1161:2 times (9) 1127:2;1138:5; 1159:16;1166:19; 1171:10;1182:15; 1199:4;1215:18; 1236:8 timing (2) 1171:19;1173:13 tiny (1) 1210:7 today (4) 1104:6;1112:22;	torch (1) 1180:21 torching (1) 1181:9 total (15) 1122:9;1126:1; 1196:18;1211:19; 1212:18;1224:5; 1225:18;1227:14,23; 1228:18;1236:6,17; 1239:19;1240:7; 1252:1 tough (1) 1148:4 towards (1) 1107:2 tower (4) 1179:2,4,5;1182:3 towers (2) 1181:14,21 track (5) 1125:20;1193:14; 1234:19,21;1235:1 tracked (1)
supervisory (1) 1202:16 suppliers (1) 1159:5 Supply (2) 1161:5;1200:9 support (1) 1245:23 suppose (2) 1117:24;1252:13 supposed (1) 1256:4 supposedly (1) 1149:5 sure (34) 1106:16;1112:1; 1113:24;1119:12,22; 1120:4;1128:10,17,21; 1129:3;1137:5;1138:5, 12,24;1140:18; 1143:17;1145:23,24; 1155:11;1163:8;	1193:19,20;1211:24; 1212:8;1234:3; 1243:24;1244:12 talked (19) 1116:2;1119:24; 1129:5,7;1130:14,16; 1140:14,14,15; 1160:21;1166:18; 1189:16,18,18; 1190:16,21;1191:1,6; 1212:3 talking (12) 1106:15;1108:11; 1112:23;1162:11; 1165:17;1167:10; 1174:15;1178:18; 1181:23;1202:10; 1214:5;1216:23 taller (1) 1117:24 target (1) 1124:2	1105:18 testified (11) 1158:17;1159:13; 1186:20;1193:13; 1197:9,10;1201:3; 1234:14;1238:6; 1243:7;1248:5 testify (4) 1112:12;1156:5,7; 1259:15 testifying (1) 1189:8 testimony (14) 1158:16,22;1188:24; 1189:4,11,23,24; 1192:19;1203:19; 1246:24;1247:5,8,9; 1252:19 testing (1) 1123:3 Texas (2) 1108:5,18	1138:8,11,12; 1139:16;1140:1,1; 1211:2 Thursday (1) 1103:3 tie (1) 1167:18 tied (2) 1249:13,17 Tile (1) 1161:2 times (9) 1127:2;1138:5; 1159:16;1166:19; 1171:10;1182:15; 1199:4;1215:18; 1236:8 timing (2) 1171:19;1173:13 tiny (1) 1210:7 today (4)	torch (1) 1180:21 torching (1) 1181:9 total (15) 1122:9;1126:1; 1196:18;1211:19; 1212:18;1224:5; 1225:18;1227:14,23; 1228:18;1236:6,17; 1239:19;1240:7; 1252:1 tough (1) 1148:4 towards (1) 1107:2 tower (4) 1179:2,4,5;1182:3 towers (2) 1181:14,21 track (5) 1125:20;1193:14; 1234:19,21;1235:1

tract (8)	1125:6,7;1133:18;	1216:19;1219:22;	up (63)	1172:7;1177:15;
1115:14;1116:19,21;	1150:19;1180:13;	1247:12;1258:13	1103:19;1104:10;	1206:3;1215:2;1224:8,
1117:1,10,14;1132:7,7	1203:4;1206:10;	type (10)	1105:13;1104:10,	12;1226:10;1248:22;
		1116:11;1153:9;		12,1220.10,1246.22,
tractor (1)	1211:16;1215:1;		1110:14;1115:9;	
1216:5	1233:15;1258:22	1161:4;1171:24;	1116:24;1127:11,13;	useful (5)
trans (1)	tunnels (1)	1172:19;1179:2;	1129:10;1137:11;	1170:22;1243:4;
1140:17	1200:8	1180:14;1210:18;	1142:7;1147:3;1149:7;	1249:14;1251:11;
transcript (2)	turbine (47)	1220:24;1256:11	1151:13,14;1154:9;	1252:10
1189:22,23	1104:13;1117:16,23;	types (7)	1160:4;1161:8,9,12;	uses (2)
transferability (2)	1121:15;1130:21;	1116:6;1122:4;	1166:9,11,24;1167:6,	1214:20;1248:24
1143:8,9	1131:15,16;1144:24;	1169:13;1176:10;	20;1168:9;1169:5;	using (20)
transformer (6)	1145:21;1149:15;	1179:1;1181:7;1183:9	1171:3;1172:10,22,23;	1104:8,12;1117:19,
1161:3;1167:17;	1152:10;1162:20;	typical (1)	1175:5;1181:15;	20,21;1122:14;
1225:15;1226:1;	1165:18;1178:14,23;	1177:8	1183:3,19;1184:20;	1123:21;1128:1;
1227:18;1229:18	1179:6;1182:4;	typically (2)	1186:12;1194:5;	1132:10;1138:1,2,3;
transformers (4)	1196:19,21;1197:2;	1177:24;1179:11	1196:20;1198:22;	1139:15,17;1143:2;
1161:4;1226:6,24;	1206:14;1209:17;	1177.21,1177.11	1201:17;1205:13,15;	1166:8;1179:4;1185:2;
1227:7	1224:4;1225:14,17;	U	1201:17,1203:13,13,	1213:17;1217:2
		O		
transmission (22)	1226:1,5;1227:8;	UCLC (8)	19;1212:2,11,18;	Usually (4)
1140:15,19,21,24,24;	1228:22;1229:12;		1228:14;1229:13;	1128:23;1129:2;
1141:15;1142:3,7,15,	1236:8,21;1239:22;	1158:9,10;1185:9,	1230:22;1231:1,6;	1136:4;1164:9
19,22;1143:4,19,22;	1240:11,16,19;	13;1189:3;1192:13,15;	1236:2;1238:24;	Utah (1)
1144:2,23;1145:4,8,17,	1241:20;1244:5,8,13,	1247:19	1240:10;1247:16;	1176:18
19,20;1151:20	16;1245:4,17,19;	Umatilla (1)	1253:1;1255:22;	utilities (4)
transporters (1)	1246:8,15,21	1108:14	1258:22	1159:4,11;1248:12;
1159:5	turbines (71)	unable (1)	update (1)	1251:19
treated (1)	1108:21;1109:3;	1167:19	1175:13	utility (4)
1121:14	1110:4,5,6,7;1111:9,	unaware (1)	updated (2)	1158:18;1159:6;
treatment (11)	15;1117:20;1118:22;	1180:6	1198:16;1255:19	1249:3,7
1121:13;1122:20,21,	1121:14;1124:1;	uncertain (1)	updates (1)	utilized (1)
23,24;1123:12,14,16;	1127:24;1129:2,10,15,	1185:11	1198:16	1114:12
1151:8,8;1200:9	20;1130:8,17;1131:18;	uncontaminated (2)	upfront (3)	1111.12
				\mathbf{V}
treatments (1)	1132:20;1135:2,3;	1221:13;1222:2	1249:19,21;1250:3	V
treatments (1) 1122:4	1132:20;1135:2,3; 1138:19;1144:10;	1221:13;1222:2 under (3)	1249:19,21;1250:3 upon (17)	
treatments (1) 1122:4 trend (6)	1132:20;1135:2,3; 1138:19;1144:10; 1145:16;1146:8;	1221:13;1222:2 under (3) 1174:18;1234:8;	1249:19,21;1250:3 upon (17) 1106:2,6;1117:6;	valid (1)
treatments (1) 1122:4 trend (6) 1178:21;1182:1,6,	1132:20;1135:2,3; 1138:19;1144:10; 1145:16;1146:8; 1147:12,22;1148:9,9,	1221:13;1222:2 under (3) 1174:18;1234:8; 1254:2	1249:19,21;1250:3 upon (17) 1106:2,6;1117:6; 1118:5,18,21;1137:16;	valid (1) 1138:15
treatments (1) 1122:4 trend (6) 1178:21;1182:1,6, 10;1183:8,11	1132:20;1135:2,3; 1138:19;1144:10; 1145:16;1146:8; 1147:12,22;1148:9,9, 10;1159:11;1161:15,	1221:13;1222:2 under (3) 1174:18;1234:8; 1254:2 underlying (2)	1249:19,21;1250:3 upon (17) 1106:2,6;1117:6; 1118:5,18,21;1137:16; 1165:4;1212:23;	valid (1) 1138:15 value (40)
treatments (1) 1122:4 trend (6) 1178:21;1182:1,6, 10;1183:8,11 tried (3)	1132:20;1135:2,3; 1138:19;1144:10; 1145:16;1146:8; 1147:12,22;1148:9,9, 10;1159:11;1161:15, 24;1162:7,15;1163:1;	1221:13;1222:2 under (3) 1174:18;1234:8; 1254:2 underlying (2) 1111:17,21	1249:19,21;1250:3 upon (17) 1106:2,6;1117:6; 1118:5,18,21;1137:16; 1165:4;1212:23; 1217:3;1220:24;	valid (1) 1138:15 value (40) 1105:7;1121:23;
treatments (1) 1122:4 trend (6) 1178:21;1182:1,6, 10;1183:8,11 tried (3) 1252:24;1253:20;	1132:20;1135:2,3; 1138:19;1144:10; 1145:16;1146:8; 1147:12,22;1148:9,9, 10;1159:11;1161:15, 24;1162:7,15;1163:1; 1165:24;1170:16,17;	1221:13;1222:2 under (3) 1174:18;1234:8; 1254:2 underlying (2) 1111:17,21 underneath (1)	1249:19,21;1250:3 upon (17) 1106:2,6;1117:6; 1118:5,18,21;1137:16; 1165:4;1212:23; 1217:3;1220:24; 1243:5;1244:6,23;	valid (1) 1138:15 value (40) 1105:7;1121:23; 1122:6;1130:22,23;
treatments (1) 1122:4 trend (6) 1178:21;1182:1,6, 10;1183:8,11 tried (3) 1252:24;1253:20; 1254:1	1132:20;1135:2,3; 1138:19;1144:10; 1145:16;1146:8; 1147:12,22;1148:9,9, 10;1159:11;1161:15, 24;1162:7,15;1163:1; 1165:24;1170:16,17; 1171:5,13,14,17,18;	1221:13;1222:2 under (3) 1174:18;1234:8; 1254:2 underlying (2) 1111:17,21 underneath (1) 1130:18	1249:19,21;1250:3 upon (17) 1106:2,6;1117:6; 1118:5,18,21;1137:16; 1165:4;1212:23; 1217:3;1220:24; 1243:5;1244:6,23; 1245:12;1248:17;	valid (1) 1138:15 value (40) 1105:7;1121:23; 1122:6;1130:22,23; 1131:11;1132:11,14;
treatments (1) 1122:4 trend (6) 1178:21;1182:1,6, 10;1183:8,11 tried (3) 1252:24;1253:20; 1254:1 tries (1)	1132:20;1135:2,3; 1138:19;1144:10; 1145:16;1146:8; 1147:12,22;1148:9,9, 10;1159:11;1161:15, 24;1162:7,15;1163:1; 1165:24;1170:16,17; 1171:5,13,14,17,18; 1172:10;1177:13,18;	1221:13;1222:2 under (3) 1174:18;1234:8; 1254:2 underlying (2) 1111:17,21 underneath (1) 1130:18 unfortunately (2)	1249:19,21;1250:3 upon (17) 1106:2,6;1117:6; 1118:5,18,21;1137:16; 1165:4;1212:23; 1217:3;1220:24; 1243:5;1244:6,23; 1245:12;1248:17; 1251:8	valid (1) 1138:15 value (40) 1105:7;1121:23; 1122:6;1130:22,23; 1131:11;1132:11,14; 1133:20,20,21,23;
treatments (1) 1122:4 trend (6) 1178:21;1182:1,6, 10;1183:8,11 tried (3) 1252:24;1253:20; 1254:1 tries (1) 1125:23	1132:20;1135:2,3; 1138:19;1144:10; 1145:16;1146:8; 1147:12,22;1148:9,9, 10;1159:11;1161:15, 24;1162:7,15;1163:1; 1165:24;1170:16,17; 1171:5,13,14,17,18; 1172:10;1177:13,18; 1178:17,18,19,22;	1221:13;1222:2 under (3) 1174:18;1234:8; 1254:2 underlying (2) 1111:17,21 underneath (1) 1130:18 unfortunately (2) 1145:14;1190:9	1249:19,21;1250:3 upon (17) 1106:2,6;1117:6; 1118:5,18,21;1137:16; 1165:4;1212:23; 1217:3;1220:24; 1243:5;1244:6,23; 1245:12;1248:17; 1251:8 upper (1)	valid (1) 1138:15 value (40) 1105:7;1121:23; 1122:6;1130:22,23; 1131:11;1132:11,14; 1133:20,20,21,23; 1134:10,22;1142:4;
treatments (1) 1122:4 trend (6) 1178:21;1182:1,6, 10;1183:8,11 tried (3) 1252:24;1253:20; 1254:1 tries (1) 1125:23 triggered (2)	1132:20;1135:2,3; 1138:19;1144:10; 1145:16;1146:8; 1147:12,22;1148:9,9, 10;1159:11;1161:15, 24;1162:7,15;1163:1; 1165:24;1170:16,17; 1171:5,13,14,17,18; 1172:10;1177:13,18; 1178:17,18,19,22; 1180:22;1189:16;	1221:13;1222:2 under (3) 1174:18;1234:8; 1254:2 underlying (2) 1111:17,21 underneath (1) 1130:18 unfortunately (2) 1145:14;1190:9 union (1)	1249:19,21;1250:3 upon (17) 1106:2,6;1117:6; 1118:5,18,21;1137:16; 1165:4;1212:23; 1217:3;1220:24; 1243:5;1244:6,23; 1245:12;1248:17; 1251:8 upper (1) 1208:5	valid (1) 1138:15 value (40) 1105:7;1121:23; 1122:6;1130:22,23; 1131:11;1132:11,14; 1133:20,20,21,23; 1134:10,22;1142:4; 1148:1,6;1149:6,7;
treatments (1) 1122:4 trend (6) 1178:21;1182:1,6, 10;1183:8,11 tried (3) 1252:24;1253:20; 1254:1 tries (1) 1125:23	1132:20;1135:2,3; 1138:19;1144:10; 1145:16;1146:8; 1147:12,22;1148:9,9, 10;1159:11;1161:15, 24;1162:7,15;1163:1; 1165:24;1170:16,17; 1171:5,13,14,17,18; 1172:10;1177:13,18; 1178:17,18,19,22; 1180:22;1189:16; 1196:20;1202:9;	1221:13;1222:2 under (3) 1174:18;1234:8; 1254:2 underlying (2) 1111:17,21 underneath (1) 1130:18 unfortunately (2) 1145:14;1190:9	1249:19,21;1250:3 upon (17) 1106:2,6;1117:6; 1118:5,18,21;1137:16; 1165:4;1212:23; 1217:3;1220:24; 1243:5;1244:6,23; 1245:12;1248:17; 1251:8 upper (1)	valid (1) 1138:15 value (40) 1105:7;1121:23; 1122:6;1130:22,23; 1131:11;1132:11,14; 1133:20,20,21,23; 1134:10,22;1142:4;
treatments (1) 1122:4 trend (6) 1178:21;1182:1,6, 10;1183:8,11 tried (3) 1252:24;1253:20; 1254:1 tries (1) 1125:23 triggered (2)	1132:20;1135:2,3; 1138:19;1144:10; 1145:16;1146:8; 1147:12,22;1148:9,9, 10;1159:11;1161:15, 24;1162:7,15;1163:1; 1165:24;1170:16,17; 1171:5,13,14,17,18; 1172:10;1177:13,18; 1178:17,18,19,22; 1180:22;1189:16;	1221:13;1222:2 under (3) 1174:18;1234:8; 1254:2 underlying (2) 1111:17,21 underneath (1) 1130:18 unfortunately (2) 1145:14;1190:9 union (1)	1249:19,21;1250:3 upon (17) 1106:2,6;1117:6; 1118:5,18,21;1137:16; 1165:4;1212:23; 1217:3;1220:24; 1243:5;1244:6,23; 1245:12;1248:17; 1251:8 upper (1) 1208:5	valid (1) 1138:15 value (40) 1105:7;1121:23; 1122:6;1130:22,23; 1131:11;1132:11,14; 1133:20,20,21,23; 1134:10,22;1142:4; 1148:1,6;1149:6,7;
treatments (1) 1122:4 trend (6) 1178:21;1182:1,6, 10;1183:8,11 tried (3) 1252:24;1253:20; 1254:1 tries (1) 1125:23 triggered (2) 1174:5;1209:23	1132:20;1135:2,3; 1138:19;1144:10; 1145:16;1146:8; 1147:12,22;1148:9,9, 10;1159:11;1161:15, 24;1162:7,15;1163:1; 1165:24;1170:16,17; 1171:5,13,14,17,18; 1172:10;1177:13,18; 1178:17,18,19,22; 1180:22;1189:16; 1196:20;1202:9;	1221:13;1222:2 under (3) 1174:18;1234:8; 1254:2 underlying (2) 1111:17,21 underneath (1) 1130:18 unfortunately (2) 1145:14;1190:9 union (1) 1229:7	1249:19,21;1250:3 upon (17) 1106:2,6;1117:6; 1118:5,18,21;1137:16; 1165:4;1212:23; 1217:3;1220:24; 1243:5;1244:6,23; 1245:12;1248:17; 1251:8 upper (1) 1208:5 up-to-date (2)	valid (1) 1138:15 value (40) 1105:7;1121:23; 1122:6;1130:22,23; 1131:11;1132:11,14; 1133:20,20,21,23; 1134:10,22;1142:4; 1148:1,6;1149:6,7; 1152:9;1160:11,14,20;
treatments (1) 1122:4 trend (6) 1178:21;1182:1,6, 10;1183:8,11 tried (3) 1252:24;1253:20; 1254:1 tries (1) 1125:23 triggered (2) 1174:5;1209:23 triggering (1)	1132:20;1135:2,3; 1138:19;1144:10; 1145:16;1146:8; 1147:12,22;1148:9,9, 10;1159:11;1161:15, 24;1162:7,15;1163:1; 1165:24;1170:16,17; 1171:5,13,14,17,18; 1172:10;1177:13,18; 1178:17,18,19,22; 1180:22;1189:16; 1196:20;1202:9; 1205:21;1224:9;	1221:13;1222:2 under (3) 1174:18;1234:8; 1254:2 underlying (2) 1111:17,21 underneath (1) 1130:18 unfortunately (2) 1145:14;1190:9 union (1) 1229:7 unique (1)	1249:19,21;1250:3 upon (17) 1106:2,6;1117:6; 1118:5,18,21;1137:16; 1165:4;1212:23; 1217:3;1220:24; 1243:5;1244:6,23; 1245:12;1248:17; 1251:8 upper (1) 1208:5 up-to-date (2) 1188:3,4	valid (1) 1138:15 value (40) 1105:7;1121:23; 1122:6;1130:22,23; 1131:11;1132:11,14; 1133:20,20,21,23; 1134:10,22;1142:4; 1148:1,6;1149:6,7; 1152:9;1160:11,14,20; 1161:11,14;1163:15;
treatments (1) 1122:4 trend (6) 1178:21;1182:1,6, 10;1183:8,11 tried (3) 1252:24;1253:20; 1254:1 tries (1) 1125:23 triggered (2) 1174:5;1209:23 triggering (1) 1242:21	1132:20;1135:2,3; 1138:19;1144:10; 1145:16;1146:8; 1147:12,22;1148:9,9, 10;1159:11;1161:15, 24;1162:7,15;1163:1; 1165:24;1170:16,17; 1171:5,13,14,17,18; 1172:10;1177:13,18; 1178:17,18,19,22; 1180:22;1189:16; 1196:20;1202:9; 1205:21;1224:9; 1234:10;1239:19;	1221:13;1222:2 under (3) 1174:18;1234:8; 1254:2 underlying (2) 1111:17,21 underneath (1) 1130:18 unfortunately (2) 1145:14;1190:9 union (1) 1229:7 unique (1) 1166:7	1249:19,21;1250:3 upon (17) 1106:2,6;1117:6; 1118:5,18,21;1137:16; 1165:4;1212:23; 1217:3;1220:24; 1243:5;1244:6,23; 1245:12;1248:17; 1251:8 upper (1) 1208:5 up-to-date (2) 1188:3,4 urban (1)	valid (1) 1138:15 value (40) 1105:7;1121:23; 1122:6;1130:22,23; 1131:11;1132:11,14; 1133:20,20,21,23; 1134:10,22;1142:4; 1148:1,6;1149:6,7; 1152:9;1160:11,14,20; 1161:11,14;1163:15; 1164:14;1167:7;
treatments (1) 1122:4 trend (6) 1178:21;1182:1,6, 10;1183:8,11 tried (3) 1252:24;1253:20; 1254:1 tries (1) 1125:23 triggered (2) 1174:5;1209:23 triggering (1) 1242:21 trouble (1)	1132:20;1135:2,3; 1138:19;1144:10; 1145:16;1146:8; 1147:12,22;1148:9,9, 10;1159:11;1161:15, 24;1162:7,15;1163:1; 1165:24;1170:16,17; 1171:5,13,14,17,18; 1172:10;1177:13,18; 1178:17,18,19,22; 1180:22;1189:16; 1196:20;1202:9; 1205:21;1224:9; 1234:10;1239:19; 1243:6,8;1244:8,9;	1221:13;1222:2 under (3) 1174:18;1234:8; 1254:2 underlying (2) 1111:17,21 underneath (1) 1130:18 unfortunately (2) 1145:14;1190:9 union (1) 1229:7 unique (1) 1166:7 United (5)	1249:19,21;1250:3 upon (17) 1106:2,6;1117:6; 1118:5,18,21;1137:16; 1165:4;1212:23; 1217:3;1220:24; 1243:5;1244:6,23; 1245:12;1248:17; 1251:8 upper (1) 1208:5 up-to-date (2) 1188:3,4 urban (1) 1141:18	valid (1) 1138:15 value (40) 1105:7;1121:23; 1122:6;1130:22,23; 1131:11;1132:11,14; 1133:20,20,21,23; 1134:10,22;1142:4; 1148:1,6;1149:6,7; 1152:9;1160:11,14,20; 1161:11,14;1163:15; 1164:14;1167:7; 1168:21,22,23;1173:5; 1180:19,23;1182:7;
treatments (1) 1122:4 trend (6) 1178:21;1182:1,6, 10;1183:8,11 tried (3) 1252:24;1253:20; 1254:1 tries (1) 1125:23 triggered (2) 1174:5;1209:23 triggering (1) 1242:21 trouble (1) 1133:14 true (6)	1132:20;1135:2,3; 1138:19;1144:10; 1145:16;1146:8; 1147:12,22;1148:9,9, 10;1159:11;1161:15, 24;1162:7,15;1163:1; 1165:24;1170:16,17; 1171:5,13,14,17,18; 1172:10;1177:13,18; 1178:17,18,19,22; 1180:22;1189:16; 1196:20;1202:9; 1205:21;1224:9; 1234:10;1239:19; 1243:6,8;1244:8,9; 1245:24;1246:3,10,11; 1248:16;1253:6	1221:13;1222:2 under (3) 1174:18;1234:8; 1254:2 underlying (2) 1111:17,21 underneath (1) 1130:18 unfortunately (2) 1145:14;1190:9 union (1) 1229:7 unique (1) 1166:7 United (5) 1128:22;1144:16; 1159:4;1235:20;	1249:19,21;1250:3 upon (17) 1106:2,6;1117:6; 1118:5,18,21;1137:16; 1165:4;1212:23; 1217:3;1220:24; 1243:5;1244:6,23; 1245:12;1248:17; 1251:8 upper (1) 1208:5 up-to-date (2) 1188:3,4 urban (1) 1141:18 use (33) 1103:18;1114:24;	valid (1) 1138:15 value (40) 1105:7;1121:23; 1122:6;1130:22,23; 1131:11;1132:11,14; 1133:20,20,21,23; 1134:10,22;1142:4; 1148:1,6;1149:6,7; 1152:9;1160:11,14,20; 1161:11,14;1163:15; 1164:14;1167:7; 1168:21,22,23;1173:5; 1180:19,23;1182:7; 1227:12,19;1228:3;
treatments (1) 1122:4 trend (6) 1178:21;1182:1,6, 10;1183:8,11 tried (3) 1252:24;1253:20; 1254:1 tries (1) 1125:23 triggered (2) 1174:5;1209:23 triggering (1) 1242:21 trouble (1) 1133:14 true (6) 1136:24;1137:23;	1132:20;1135:2,3; 1138:19;1144:10; 1145:16;1146:8; 1147:12,22;1148:9,9, 10;1159:11;1161:15, 24;1162:7,15;1163:1; 1165:24;1170:16,17; 1171:5,13,14,17,18; 1172:10;1177:13,18; 1178:17,18,19,22; 1180:22;1189:16; 1196:20;1202:9; 1205:21;1224:9; 1234:10;1239:19; 1243:6,8;1244:8,9; 1245:24;1246:3,10,11; 1248:16;1253:6 turned (1)	1221:13;1222:2 under (3) 1174:18;1234:8; 1254:2 underlying (2) 1111:17,21 underneath (1) 1130:18 unfortunately (2) 1145:14;1190:9 union (1) 1229:7 unique (1) 1166:7 United (5) 1128:22;1144:16; 1159:4;1235:20; 1236:1	1249:19,21;1250:3 upon (17) 1106:2,6;1117:6; 1118:5,18,21;1137:16; 1165:4;1212:23; 1217:3;1220:24; 1243:5;1244:6,23; 1245:12;1248:17; 1251:8 upper (1) 1208:5 up-to-date (2) 1188:3,4 urban (1) 1141:18 use (33) 1103:18;1114:24; 1115:13,14,18;	valid (1) 1138:15 value (40) 1105:7;1121:23; 1122:6;1130:22,23; 1131:11;1132:11,14; 1133:20,20,21,23; 1134:10,22;1142:4; 1148:1,6;1149:6,7; 1152:9;1160:11,14,20; 1161:11,14;1163:15; 1164:14;1167:7; 1168:21,22,23;1173:5; 1180:19,23;1182:7; 1227:12,19;1228:3; 1232:9;1235:2
treatments (1) 1122:4 trend (6) 1178:21;1182:1,6, 10;1183:8,11 tried (3) 1252:24;1253:20; 1254:1 tries (1) 1125:23 triggered (2) 1174:5;1209:23 triggering (1) 1242:21 trouble (1) 1133:14 true (6) 1136:24;1137:23; 1138:7,10,23;1158:11	1132:20;1135:2,3; 1138:19;1144:10; 1145:16;1146:8; 1147:12,22;1148:9,9, 10;1159:11;1161:15, 24;1162:7,15;1163:1; 1165:24;1170:16,17; 1171:5,13,14,17,18; 1172:10;1177:13,18; 1178:17,18,19,22; 1180:22;1189:16; 1196:20;1202:9; 1205:21;1224:9; 1234:10;1239:19; 1243:6,8;1244:8,9; 1245:24;1246:3,10,11; 1248:16;1253:6 turned (1) 1112:7	1221:13;1222:2 under (3) 1174:18;1234:8; 1254:2 underlying (2) 1111:17,21 underneath (1) 1130:18 unfortunately (2) 1145:14;1190:9 union (1) 1229:7 unique (1) 1166:7 United (5) 1128:22;1144:16; 1159:4;1235:20; 1236:1 Units (2)	1249:19,21;1250:3 upon (17) 1106:2,6;1117:6; 1118:5,18,21;1137:16; 1165:4;1212:23; 1217:3;1220:24; 1243:5;1244:6,23; 1245:12;1248:17; 1251:8 upper (1) 1208:5 up-to-date (2) 1188:3,4 urban (1) 1141:18 use (33) 1103:18;1114:24; 1115:13,14,18; 1116:16,17,24;1117:2,	valid (1) 1138:15 value (40) 1105:7;1121:23; 1122:6;1130:22,23; 1131:11;1132:11,14; 1133:20,20,21,23; 1134:10,22;1142:4; 1148:1,6;1149:6,7; 1152:9;1160:11,14,20; 1161:11,14;1163:15; 1164:14;1167:7; 1168:21,22,23;1173:5; 1180:19,23;1182:7; 1227:12,19;1228:3; 1232:9;1235:2 values (13)
treatments (1) 1122:4 trend (6) 1178:21;1182:1,6, 10;1183:8,11 tried (3) 1252:24;1253:20; 1254:1 tries (1) 1125:23 triggered (2) 1174:5;1209:23 triggering (1) 1242:21 trouble (1) 1133:14 true (6) 1136:24;1137:23; 1138:7,10,23;1158:11 Trust (1)	1132:20;1135:2,3; 1138:19;1144:10; 1145:16;1146:8; 1147:12,22;1148:9,9, 10;1159:11;1161:15, 24;1162:7,15;1163:1; 1165:24;1170:16,17; 1171:5,13,14,17,18; 1172:10;1177:13,18; 1178:17,18,19,22; 1180:22;1189:16; 1196:20;1202:9; 1205:21;1224:9; 1234:10;1239:19; 1243:6,8;1244:8,9; 1245:24;1246:3,10,11; 1248:16;1253:6 turned (1) 1112:7 Tuttle (1)	1221:13;1222:2 under (3) 1174:18;1234:8; 1254:2 underlying (2) 1111:17,21 underneath (1) 1130:18 unfortunately (2) 1145:14;1190:9 union (1) 1229:7 unique (1) 1166:7 United (5) 1128:22;1144:16; 1159:4;1235:20; 1236:1 Units (2) 1184:10,11	1249:19,21;1250:3 upon (17) 1106:2,6;1117:6; 1118:5,18,21;1137:16; 1165:4;1212:23; 1217:3;1220:24; 1243:5;1244:6,23; 1245:12;1248:17; 1251:8 upper (1) 1208:5 up-to-date (2) 1188:3,4 urban (1) 1141:18 use (33) 1103:18;1114:24; 1115:13,14,18; 1116:16,17,24;1117:2, 7,9;1118:3,6;1120:24;	valid (1) 1138:15 value (40) 1105:7;1121:23; 1122:6;1130:22,23; 1131:11;1132:11,14; 1133:20,20,21,23; 1134:10,22;1142:4; 1148:1,6;1149:6,7; 1152:9;1160:11,14,20; 1161:11,14;1163:15; 1164:14;1167:7; 1168:21,22,23;1173:5; 1180:19,23;1182:7; 1227:12,19;1228:3; 1232:9;1235:2 values (13) 1129:21;1130:11;
treatments (1) 1122:4 trend (6) 1178:21;1182:1,6, 10;1183:8,11 tried (3) 1252:24;1253:20; 1254:1 tries (1) 1125:23 triggered (2) 1174:5;1209:23 triggering (1) 1242:21 trouble (1) 1133:14 true (6) 1136:24;1137:23; 1138:7,10,23;1158:11 Trust (1) 1236:9	1132:20;1135:2,3; 1138:19;1144:10; 1145:16;1146:8; 1147:12,22;1148:9,9, 10;1159:11;1161:15, 24;1162:7,15;1163:1; 1165:24;1170:16,17; 1171:5,13,14,17,18; 1172:10;1177:13,18; 1178:17,18,19,22; 1180:22;1189:16; 1196:20;1202:9; 1205:21;1224:9; 1234:10;1239:19; 1243:6,8;1244:8,9; 1245:24;1246:3,10,11; 1248:16;1253:6 turned (1) 1112:7 Tuttle (1) 1130:13	1221:13;1222:2 under (3) 1174:18;1234:8; 1254:2 underlying (2) 1111:17,21 underneath (1) 1130:18 unfortunately (2) 1145:14;1190:9 union (1) 1229:7 unique (1) 1166:7 United (5) 1128:22;1144:16; 1159:4;1235:20; 1236:1 Units (2) 1184:10,11 University (1)	1249:19,21;1250:3 upon (17) 1106:2,6;1117:6; 1118:5,18,21;1137:16; 1165:4;1212:23; 1217:3;1220:24; 1243:5;1244:6,23; 1245:12;1248:17; 1251:8 upper (1) 1208:5 up-to-date (2) 1188:3,4 urban (1) 1141:18 use (33) 1103:18;1114:24; 1115:13,14,18; 1116:16,17,24;1117:2, 7,9;1118:3,6;1120:24; 1136:4,7,13;1142:20;	valid (1) 1138:15 value (40) 1105:7;1121:23; 1122:6;1130:22,23; 1131:11;1132:11,14; 1133:20,20,21,23; 1134:10,22;1142:4; 1148:1,6;1149:6,7; 1152:9;1160:11,14,20; 1161:11,14;1163:15; 1164:14;1167:7; 1168:21,22,23;1173:5; 1180:19,23;1182:7; 1227:12,19;1228:3; 1232:9;1235:2 values (13) 1129:21;1130:11; 1140:14;1147:13;
treatments (1) 1122:4 trend (6) 1178:21;1182:1,6, 10;1183:8,11 tried (3) 1252:24;1253:20; 1254:1 tries (1) 1125:23 triggered (2) 1174:5;1209:23 triggering (1) 1242:21 trouble (1) 1133:14 true (6) 1136:24;1137:23; 1138:7,10,23;1158:11 Trust (1) 1236:9 try (13)	1132:20;1135:2,3; 1138:19;1144:10; 1145:16;1146:8; 1147:12,22;1148:9,9, 10;1159:11;1161:15, 24;1162:7,15;1163:1; 1165:24;1170:16,17; 1171:5,13,14,17,18; 1172:10;1177:13,18; 1178:17,18,19,22; 1180:22;1189:16; 1196:20;1202:9; 1205:21;1224:9; 1234:10;1239:19; 1243:6,8;1244:8,9; 1245:24;1246:3,10,11; 1248:16;1253:6 turned (1) 1112:7 Tuttle (1) 1130:13 twenty (2)	1221:13;1222:2 under (3) 1174:18;1234:8; 1254:2 underlying (2) 1111:17,21 underneath (1) 1130:18 unfortunately (2) 1145:14;1190:9 union (1) 1229:7 unique (1) 1166:7 United (5) 1128:22;1144:16; 1159:4;1235:20; 1236:1 Units (2) 1184:10,11 University (1) 1157:16	1249:19,21;1250:3 upon (17) 1106:2,6;1117:6; 1118:5,18,21;1137:16; 1165:4;1212:23; 1217:3;1220:24; 1243:5;1244:6,23; 1245:12;1248:17; 1251:8 upper (1) 1208:5 up-to-date (2) 1188:3,4 urban (1) 1141:18 use (33) 1103:18;1114:24; 1115:13,14,18; 1116:16,17,24;1117:2, 7,9;1118:3,6;1120:24; 1136:4,7,13;1142:20; 1143:11,11,16;1153:9;	valid (1) 1138:15 value (40) 1105:7;1121:23; 1122:6;1130:22,23; 1131:11;1132:11,14; 1133:20,20,21,23; 1134:10,22;1142:4; 1148:1,6;1149:6,7; 1152:9;1160:11,14,20; 1161:11,14;1163:15; 1164:14;1167:7; 1168:21,22,23;1173:5; 1180:19,23;1182:7; 1227:12,19;1228:3; 1232:9;1235:2 values (13) 1129:21;1130:11; 1140:14;1147:13; 1148:8;1160:11;
treatments (1) 1122:4 trend (6) 1178:21;1182:1,6, 10;1183:8,11 tried (3) 1252:24;1253:20; 1254:1 tries (1) 1125:23 triggered (2) 1174:5;1209:23 triggering (1) 1242:21 trouble (1) 1133:14 true (6) 1136:24;1137:23; 1138:7,10,23;1158:11 Trust (1) 1236:9 try (13) 1115:19;1117:2,4;	1132:20;1135:2,3; 1138:19;1144:10; 1145:16;1146:8; 1147:12,22;1148:9,9, 10;1159:11;1161:15, 24;1162:7,15;1163:1; 1165:24;1170:16,17; 1171:5,13,14,17,18; 1172:10;1177:13,18; 1178:17,18,19,22; 1180:22;1189:16; 1196:20;1202:9; 1205:21;1224:9; 1234:10;1239:19; 1243:6,8;1244:8,9; 1245:24;1246:3,10,11; 1248:16;1253:6 turned (1) 1112:7 Tuttle (1) 1130:13 twenty (2) 1110:23,24	1221:13;1222:2 under (3) 1174:18;1234:8; 1254:2 underlying (2) 1111:17,21 underneath (1) 1130:18 unfortunately (2) 1145:14;1190:9 union (1) 1229:7 unique (1) 1166:7 United (5) 1128:22;1144:16; 1159:4;1235:20; 1236:1 Units (2) 1184:10,11 University (1) 1157:16 unless (2)	1249:19,21;1250:3 upon (17) 1106:2,6;1117:6; 1118:5,18,21;1137:16; 1165:4;1212:23; 1217:3;1220:24; 1243:5;1244:6,23; 1245:12;1248:17; 1251:8 upper (1) 1208:5 up-to-date (2) 1188:3,4 urban (1) 1141:18 use (33) 1103:18;1114:24; 1115:13,14,18; 1116:16,17,24;1117:2, 7,9;1118:3,6;1120:24; 1136:4,7,13;1142:20; 1143:11,11,16;1153:9; 1160:6;1171:6,20;	valid (1) 1138:15 value (40) 1105:7;1121:23; 1122:6;1130:22,23; 1131:11;1132:11,14; 1133:20,20,21,23; 1134:10,22;1142:4; 1148:1,6;1149:6,7; 1152:9;1160:11,14,20; 1161:11,14;1163:15; 1164:14;1167:7; 1168:21,22,23;1173:5; 1180:19,23;1182:7; 1227:12,19;1228:3; 1232:9;1235:2 values (13) 1129:21;1130:11; 1140:14;1147:13; 1148:8;1160:11; 1163:3;1164:13;
treatments (1) 1122:4 trend (6) 1178:21;1182:1,6, 10;1183:8,11 tried (3) 1252:24;1253:20; 1254:1 tries (1) 1125:23 triggered (2) 1174:5;1209:23 triggering (1) 1242:21 trouble (1) 1133:14 true (6) 1136:24;1137:23; 1138:7,10,23;1158:11 Trust (1) 1236:9 try (13) 1115:19;1117:2,4; 1118:20;1132:10;	1132:20;1135:2,3; 1138:19;1144:10; 1145:16;1146:8; 1147:12,22;1148:9,9, 10;1159:11;1161:15, 24;1162:7,15;1163:1; 1165:24;1170:16,17; 1171:5,13,14,17,18; 1172:10;1177:13,18; 1178:17,18,19,22; 1180:22;1189:16; 1196:20;1202:9; 1205:21;1224:9; 1234:10;1239:19; 1243:6,8;1244:8,9; 1245:24;1246:3,10,11; 1248:16;1253:6 turned (1) 1112:7 Tuttle (1) 1130:13 twenty (2) 1110:23,24 two (21)	1221:13;1222:2 under (3) 1174:18;1234:8; 1254:2 underlying (2) 1111:17,21 underneath (1) 1130:18 unfortunately (2) 1145:14;1190:9 union (1) 1229:7 unique (1) 1166:7 United (5) 1128:22;1144:16; 1159:4;1235:20; 1236:1 Units (2) 1184:10,11 University (1) 1157:16 unless (2) 1147:1;1183:14	1249:19,21;1250:3 upon (17) 1106:2,6;1117:6; 1118:5,18,21;1137:16; 1165:4;1212:23; 1217:3;1220:24; 1243:5;1244:6,23; 1245:12;1248:17; 1251:8 upper (1) 1208:5 up-to-date (2) 1188:3,4 urban (1) 1141:18 use (33) 1103:18;1114:24; 1115:13,14,18; 1116:16,17,24;1117:2, 7,9;1118:3,6;1120:24; 1136:4,7,13;1142:20; 1143:11,11,16;1153:9; 1160:6;1171:6,20; 1182:16,19;1206:11;	valid (1) 1138:15 value (40) 1105:7;1121:23; 1122:6;1130:22,23; 1131:11;1132:11,14; 1133:20,20,21,23; 1134:10,22;1142:4; 1148:1,6;1149:6,7; 1152:9;1160:11,14,20; 1161:11,14;1163:15; 1164:14;1167:7; 1168:21,22,23;1173:5; 1180:19,23;1182:7; 1227:12,19;1228:3; 1232:9;1235:2 values (13) 1129:21;1130:11; 1140:14;1147:13; 1148:8;1160:11; 1163:3;1164:13; 1172:21;1173:22;
treatments (1) 1122:4 trend (6) 1178:21;1182:1,6, 10;1183:8,11 tried (3) 1252:24;1253:20; 1254:1 tries (1) 1125:23 triggered (2) 1174:5;1209:23 triggering (1) 1242:21 trouble (1) 1133:14 true (6) 1136:24;1137:23; 1138:7,10,23;1158:11 Trust (1) 1236:9 try (13) 1115:19;1117:2,4; 1118:20;1132:10; 1133:23;1163:11;	1132:20;1135:2,3; 1138:19;1144:10; 1145:16;1146:8; 1147:12,22;1148:9,9, 10;1159:11;1161:15, 24;1162:7,15;1163:1; 1165:24;1170:16,17; 1171:5,13,14,17,18; 1172:10;1177:13,18; 1178:17,18,19,22; 1180:22;1189:16; 1196:20;1202:9; 1205:21;1224:9; 1234:10;1239:19; 1243:6,8;1244:8,9; 1245:24;1246:3,10,11; 1248:16;1253:6 turned (1) 1112:7 Tuttle (1) 1130:13 twenty (2) 1110:23,24 two (21) 1106:20;1118:6;	1221:13;1222:2 under (3) 1174:18;1234:8; 1254:2 underlying (2) 1111:17,21 underneath (1) 1130:18 unfortunately (2) 1145:14;1190:9 union (1) 1229:7 unique (1) 1166:7 United (5) 1128:22;1144:16; 1159:4;1235:20; 1236:1 Units (2) 1184:10,11 University (1) 1157:16 unless (2) 1147:1;1183:14 unlikely (1)	1249:19,21;1250:3 upon (17) 1106:2,6;1117:6; 1118:5,18,21;1137:16; 1165:4;1212:23; 1217:3;1220:24; 1243:5;1244:6,23; 1245:12;1248:17; 1251:8 upper (1) 1208:5 up-to-date (2) 1188:3,4 urban (1) 1141:18 use (33) 1103:18;1114:24; 1115:13,14,18; 1116:16,17,24;1117:2, 7,9;1118:3,6;1120:24; 1136:4,7,13;1142:20; 1143:11,11,16;1153:9; 1160:6;1171:6,20; 1182:16,19;1206:11; 1210:8;1214:23;	valid (1) 1138:15 value (40) 1105:7;1121:23; 1122:6;1130:22,23; 1131:11;1132:11,14; 1133:20,20,21,23; 1134:10,22;1142:4; 1148:1,6;1149:6,7; 1152:9;1160:11,14,20; 1161:11,14;1163:15; 1164:14;1167:7; 1168:21,22,23;1173:5; 1180:19,23;1182:7; 1227:12,19;1228:3; 1232:9;1235:2 values (13) 1129:21;1130:11; 1140:14;1147:13; 1148:8;1160:11; 1163:3;1164:13; 1172:21;1173:22; 1191:7,19;1203:5
treatments (1) 1122:4 trend (6) 1178:21;1182:1,6, 10;1183:8,11 tried (3) 1252:24;1253:20; 1254:1 tries (1) 1125:23 triggered (2) 1174:5;1209:23 triggering (1) 1242:21 trouble (1) 1133:14 true (6) 1136:24;1137:23; 1138:7,10,23;1158:11 Trust (1) 1236:9 try (13) 1115:19;1117:2,4; 1118:20;1132:10; 1133:23;1163:11; 1173:3;1179:19;	1132:20;1135:2,3; 1138:19;1144:10; 1145:16;1146:8; 1147:12,22;1148:9,9, 10;1159:11;1161:15, 24;1162:7,15;1163:1; 1165:24;1170:16,17; 1171:5,13,14,17,18; 1172:10;1177:13,18; 1178:17,18,19,22; 1180:22;1189:16; 1196:20;1202:9; 1205:21;1224:9; 1234:10;1239:19; 1243:6,8;1244:8,9; 1245:24;1246:3,10,11; 1248:16;1253:6 turned (1) 1112:7 Tuttle (1) 1130:13 twenty (2) 1110:23,24 two (21) 1106:20;1118:6; 1119:2;1129:14;	1221:13;1222:2 under (3) 1174:18;1234:8; 1254:2 underlying (2) 1111:17,21 underneath (1) 1130:18 unfortunately (2) 1145:14;1190:9 union (1) 1229:7 unique (1) 1166:7 United (5) 1128:22;1144:16; 1159:4;1235:20; 1236:1 Units (2) 1184:10,11 University (1) 1157:16 unless (2) 1147:1;1183:14 unlikely (1) 1105:12	1249:19,21;1250:3 upon (17) 1106:2,6;1117:6; 1118:5,18,21;1137:16; 1165:4;1212:23; 1217:3;1220:24; 1243:5;1244:6,23; 1245:12;1248:17; 1251:8 upper (1) 1208:5 up-to-date (2) 1188:3,4 urban (1) 1141:18 use (33) 1103:18;1114:24; 1115:13,14,18; 1116:16,17,24;1117:2, 7,9;1118:3,6;1120:24; 1136:4,7,13;1142:20; 1143:11,11,16;1153:9; 1160:6;1171:6,20; 1182:16,19;1206:11; 1210:8;1214:23; 1215:5;1223:7;	valid (1) 1138:15 value (40) 1105:7;1121:23; 1122:6;1130:22,23; 1131:11;1132:11,14; 1133:20,20,21,23; 1134:10,22;1142:4; 1148:1,6;1149:6,7; 1152:9;1160:11,14,20; 1161:11,14;1163:15; 1164:14;1167:7; 1168:21,22,23;1173:5; 1180:19,23;1182:7; 1227:12,19;1228:3; 1232:9;1235:2 values (13) 1129:21;1130:11; 1140:14;1147:13; 1148:8;1160:11; 1163:3;1164:13; 1172:21;1173:22; 1191:7,19;1203:5 variable (10)
treatments (1) 1122:4 trend (6) 1178:21;1182:1,6, 10;1183:8,11 tried (3) 1252:24;1253:20; 1254:1 tries (1) 1125:23 triggered (2) 1174:5;1209:23 triggering (1) 1242:21 trouble (1) 1133:14 true (6) 1136:24;1137:23; 1138:7,10,23;1158:11 Trust (1) 1236:9 try (13) 1115:19;1117:2,4; 1118:20;1132:10; 1133:23;1163:11; 1173:3;1179:19; 1189:20;1201:19;	1132:20;1135:2,3; 1138:19;1144:10; 1145:16;1146:8; 1147:12,22;1148:9,9, 10;1159:11;1161:15, 24;1162:7,15;1163:1; 1165:24;1170:16,17; 1171:5,13,14,17,18; 1172:10;1177:13,18; 1178:17,18,19,22; 1180:22;1189:16; 1196:20;1202:9; 1205:21;1224:9; 1234:10;1239:19; 1243:6,8;1244:8,9; 1245:24;1246:3,10,11; 1248:16;1253:6 turned (1) 1112:7 Tuttle (1) 1130:13 twenty (2) 1110:23,24 two (21) 1106:20;1118:6; 1119:2;1129:14; 1130:2;1132:9;1138:2;	1221:13;1222:2 under (3) 1174:18;1234:8; 1254:2 underlying (2) 1111:17,21 underneath (1) 1130:18 unfortunately (2) 1145:14;1190:9 union (1) 1229:7 unique (1) 1166:7 United (5) 1128:22;1144:16; 1159:4;1235:20; 1236:1 Units (2) 1184:10,11 University (1) 1157:16 unless (2) 1147:1;1183:14 unlikely (1) 1105:12 unstable (1)	1249:19,21;1250:3 upon (17) 1106:2,6;1117:6; 1118:5,18,21;1137:16; 1165:4;1212:23; 1217:3;1220:24; 1243:5;1244:6,23; 1245:12;1248:17; 1251:8 upper (1) 1208:5 up-to-date (2) 1188:3,4 urban (1) 1141:18 use (33) 1103:18;1114:24; 1115:13,14,18; 1116:16,17,24;1117:2, 7,9;1118:3,6;1120:24; 1136:4,7,13;1142:20; 1143:11,11,16;1153:9; 1160:6;1171:6,20; 1182:16,19;1206:11; 1210:8;1214:23; 1215:5;1223:7; 1244:19	valid (1) 1138:15 value (40) 1105:7;1121:23; 1122:6;1130:22,23; 1131:11;1132:11,14; 1133:20,20,21,23; 1134:10,22;1142:4; 1148:1,6;1149:6,7; 1152:9;1160:11,14,20; 1161:11,14;1163:15; 1164:14;1167:7; 1168:21,22,23;1173:5; 1180:19,23;1182:7; 1227:12,19;1228:3; 1232:9;1235:2 values (13) 1129:21;1130:11; 1140:14;1147:13; 1148:8;1160:11; 1163:3;1164:13; 1172:21;1173:22; 1191:7,19;1203:5 variable (10) 1116:14,19;1117:1;
treatments (1) 1122:4 trend (6) 1178:21;1182:1,6, 10;1183:8,11 tried (3) 1252:24;1253:20; 1254:1 tries (1) 1125:23 triggered (2) 1174:5;1209:23 triggering (1) 1242:21 trouble (1) 1133:14 true (6) 1136:24;1137:23; 1138:7,10,23;1158:11 Trust (1) 1236:9 try (13) 1115:19;1117:2,4; 1118:20;1132:10; 1133:23;1163:11; 1173:3;1179:19; 1189:20;1201:19; 1246:13;1260:3	1132:20;1135:2,3; 1138:19;1144:10; 1145:16;1146:8; 1147:12,22;1148:9,9, 10;1159:11;1161:15, 24;1162:7,15;1163:1; 1165:24;1170:16,17; 1171:5,13,14,17,18; 1172:10;1177:13,18; 1178:17,18,19,22; 1180:22;1189:16; 1196:20;1202:9; 1205:21;1224:9; 1234:10;1239:19; 1243:6,8;1244:8,9; 1245:24;1246:3,10,11; 1248:16;1253:6 turned (1) 1112:7 Tutle (1) 1130:13 twenty (2) 1110:23,24 two (21) 1106:20;1118:6; 1119:2;1129:14; 1130:2;1132:9;1138:2; 1144:14;1155:10;	1221:13;1222:2 under (3) 1174:18;1234:8; 1254:2 underlying (2) 1111:17,21 underneath (1) 1130:18 unfortunately (2) 1145:14;1190:9 union (1) 1229:7 unique (1) 1166:7 United (5) 1128:22;1144:16; 1159:4;1235:20; 1236:1 Units (2) 1184:10,11 University (1) 1157:16 unless (2) 1147:1;1183:14 unlikely (1) 1105:12 unstable (1) 1123:2	1249:19,21;1250:3 upon (17) 1106:2,6;1117:6; 1118:5,18,21;1137:16; 1165:4;1212:23; 1217:3;1220:24; 1243:5;1244:6,23; 1245:12;1248:17; 1251:8 upper (1) 1208:5 up-to-date (2) 1188:3,4 urban (1) 1141:18 use (33) 1103:18;1114:24; 1115:13,14,18; 1116:16,17,24;1117:2, 7,9;1118:3,6;1120:24; 1136:4,7,13;1142:20; 1143:11,11,16;1153:9; 1160:6;1171:6,20; 1182:16,19;1206:11; 1210:8;1214:23; 1215:5;1223:7; 1244:19 used (17)	valid (1) 1138:15 value (40) 1105:7;1121:23; 1122:6;1130:22,23; 1131:11;1132:11,14; 1133:20,20,21,23; 1134:10,22;1142:4; 1148:1,6;1149:6,7; 1152:9;1160:11,14,20; 1161:11,14;1163:15; 1164:14;1167:7; 1168:21,22,23;1173:5; 1180:19,23;1182:7; 1227:12,19;1228:3; 1232:9;1235:2 values (13) 1129:21;1130:11; 1140:14;1147:13; 1148:8;1160:11; 1163:3;1164:13; 1172:21;1173:22; 1191:7,19;1203:5 variable (10) 1116:14,19;1117:1; 1125:5,5;1131:3,7,10,
treatments (1) 1122:4 trend (6) 1178:21;1182:1,6, 10;1183:8,11 tried (3) 1252:24;1253:20; 1254:1 tries (1) 1125:23 triggered (2) 1174:5;1209:23 triggering (1) 1242:21 trouble (1) 1133:14 true (6) 1136:24;1137:23; 1138:7,10,23;1158:11 Trust (1) 1236:9 try (13) 1115:19;1117:2,4; 1118:20;1132:10; 1133:23;1163:11; 1173:3;1179:19; 1189:20;1201:19; 1246:13;1260:3 trying (16)	1132:20;1135:2,3; 1138:19;1144:10; 1145:16;1146:8; 1147:12,22;1148:9,9, 10;1159:11;1161:15, 24;1162:7,15;1163:1; 1165:24;1170:16,17; 1171:5,13,14,17,18; 1172:10;1177:13,18; 1178:17,18,19,22; 1180:22;1189:16; 1196:20;1202:9; 1205:21;1224:9; 1234:10;1239:19; 1243:6,8;1244:8,9; 1245:24;1246:3,10,11; 1248:16;1253:6 turned (1) 1112:7 Tutle (1) 1130:13 twenty (2) 1110:23,24 two (21) 1106:20;1118:6; 1119:2;1129:14; 1130:2;1132:9;1138:2; 1144:14;1155:10; 1158:18;1160:21,23;	1221:13;1222:2 under (3) 1174:18;1234:8; 1254:2 underlying (2) 1111:17,21 underneath (1) 1130:18 unfortunately (2) 1145:14;1190:9 union (1) 1229:7 unique (1) 1166:7 United (5) 1128:22;1144:16; 1159:4;1235:20; 1236:1 Units (2) 1184:10,11 University (1) 1157:16 unless (2) 1147:1;1183:14 unlikely (1) 1105:12 unstable (1) 1123:2 unusual (3)	1249:19,21;1250:3 upon (17) 1106:2,6;1117:6; 1118:5,18,21;1137:16; 1165:4;1212:23; 1217:3;1220:24; 1243:5;1244:6,23; 1245:12;1248:17; 1251:8 upper (1) 1208:5 up-to-date (2) 1188:3,4 urban (1) 1141:18 use (33) 1103:18;1114:24; 1115:13,14,18; 1116:16,17,24;1117:2, 7,9;1118:3,6;1120:24; 1136:4,7,13;1142:20; 1143:11,11,16;1153:9; 1160:6;1171:6,20; 1182:16,19;1206:11; 1210:8;1214:23; 1215:5;1223:7; 1244:19 used (17) 1115:11;1128:12;	valid (1) 1138:15 value (40) 1105:7;1121:23; 1122:6;1130:22,23; 1131:11;1132:11,14; 1133:20,20,21,23; 1134:10,22;1142:4; 1148:1,6;1149:6,7; 1152:9;1160:11,14,20; 1161:11,14;1163:15; 1164:14;1167:7; 1168:21,22,23;1173:5; 1180:19,23;1182:7; 1227:12,19;1228:3; 1232:9;1235:2 values (13) 1129:21;1130:11; 1140:14;1147:13; 1148:8;1160:11; 1163:3;1164:13; 1172:21;1173:22; 1191:7,19;1203:5 variable (10) 1116:14,19;1117:1; 1125:5,5;1131:3,7,10, 24;1132:5
treatments (1) 1122:4 trend (6) 1178:21;1182:1,6, 10;1183:8,11 tried (3) 1252:24;1253:20; 1254:1 tries (1) 1125:23 triggered (2) 1174:5;1209:23 triggering (1) 1242:21 trouble (1) 1133:14 true (6) 1136:24;1137:23; 1138:7,10,23;1158:11 Trust (1) 1236:9 try (13) 1115:19;1117:2,4; 1118:20;1132:10; 1133:23;1163:11; 1173:3;1179:19; 1189:20;1201:19; 1246:13;1260:3 trying (16) 1105:2;1114:8,18;	1132:20;1135:2,3; 1138:19;1144:10; 1145:16;1146:8; 1147:12,22;1148:9,9, 10;1159:11;1161:15, 24;1162:7,15;1163:1; 1165:24;1170:16,17; 1171:5,13,14,17,18; 1172:10;1177:13,18; 1178:17,18,19,22; 1180:22;1189:16; 1196:20;1202:9; 1205:21;1224:9; 1234:10;1239:19; 1243:6,8;1244:8,9; 1245:24;1246:3,10,11; 1248:16;1253:6 turned (1) 1112:7 Tuttle (1) 1130:13 twenty (2) 110:23,24 two (21) 1106:20;1118:6; 1119:2;1129:14; 1130:2;1132:9;1138:2; 1144:14;1155:10; 1158:18;1160:21,23; 1161:3;1183:2;	1221:13;1222:2 under (3) 1174:18;1234:8; 1254:2 underlying (2) 1111:17,21 underneath (1) 1130:18 unfortunately (2) 1145:14;1190:9 union (1) 1229:7 unique (1) 1166:7 United (5) 1128:22;1144:16; 1159:4;1235:20; 1236:1 Units (2) 1184:10,11 University (1) 1157:16 unless (2) 1147:1;1183:14 unlikely (1) 1105:12 unstable (1) 1123:2 unusual (3) 1164:2;1194:5;	1249:19,21;1250:3 upon (17) 1106:2,6;1117:6; 1118:5,18,21;1137:16; 1165:4;1212:23; 1217:3;1220:24; 1243:5;1244:6,23; 1245:12;1248:17; 1251:8 upper (1) 1208:5 up-to-date (2) 1188:3,4 urban (1) 1141:18 use (33) 1103:18;1114:24; 1115:13,14,18; 1116:16,17,24;1117:2, 7,9;1118:3,6;1120:24; 1136:4,7,13;1142:20; 1143:11,11,16;1153:9; 1160:6;1171:6,20; 1182:16,19;1206:11; 1210:8;1214:23; 1215:5;1223:7; 1244:19 used (17) 1115:11;1128:12; 1151:23;1160:7;	valid (1) 1138:15 value (40) 1105:7;1121:23; 1122:6;1130:22,23; 1131:11;1132:11,14; 1133:20,20,21,23; 1134:10,22;1142:4; 1148:1,6;1149:6,7; 1152:9;1160:11,14,20; 1161:11,14;1163:15; 1164:14;1167:7; 1168:21,22,23;1173:5; 1180:19,23;1182:7; 1227:12,19;1228:3; 1232:9;1235:2 values (13) 1129:21;1130:11; 1140:14;1147:13; 1148:8;1160:11; 1163:3;1164:13; 1172:21;1173:22; 1191:7,19;1203:5 variable (10) 1116:14,19;1117:1; 1125:5,5;1131:3,7,10, 24;1132:5 variables (15)
treatments (1) 1122:4 trend (6) 1178:21;1182:1,6, 10;1183:8,11 tried (3) 1252:24;1253:20; 1254:1 tries (1) 1125:23 triggered (2) 1174:5;1209:23 triggering (1) 1242:21 trouble (1) 1133:14 true (6) 1136:24;1137:23; 1138:7,10,23;1158:11 Trust (1) 1236:9 try (13) 1115:19;1117:2,4; 1118:20;1132:10; 1133:23;1163:11; 1173:3;1179:19; 1189:20;1201:19; 1246:13;1260:3 trying (16)	1132:20;1135:2,3; 1138:19;1144:10; 1145:16;1146:8; 1147:12,22;1148:9,9, 10;1159:11;1161:15, 24;1162:7,15;1163:1; 1165:24;1170:16,17; 1171:5,13,14,17,18; 1172:10;1177:13,18; 1178:17,18,19,22; 1180:22;1189:16; 1196:20;1202:9; 1205:21;1224:9; 1234:10;1239:19; 1243:6,8;1244:8,9; 1245:24;1246:3,10,11; 1248:16;1253:6 turned (1) 1112:7 Tutle (1) 1130:13 twenty (2) 1110:23,24 two (21) 1106:20;1118:6; 1119:2;1129:14; 1130:2;1132:9;1138:2; 1144:14;1155:10; 1158:18;1160:21,23;	1221:13;1222:2 under (3) 1174:18;1234:8; 1254:2 underlying (2) 1111:17,21 underneath (1) 1130:18 unfortunately (2) 1145:14;1190:9 union (1) 1229:7 unique (1) 1166:7 United (5) 1128:22;1144:16; 1159:4;1235:20; 1236:1 Units (2) 1184:10,11 University (1) 1157:16 unless (2) 1147:1;1183:14 unlikely (1) 1105:12 unstable (1) 1123:2 unusual (3)	1249:19,21;1250:3 upon (17) 1106:2,6;1117:6; 1118:5,18,21;1137:16; 1165:4;1212:23; 1217:3;1220:24; 1243:5;1244:6,23; 1245:12;1248:17; 1251:8 upper (1) 1208:5 up-to-date (2) 1188:3,4 urban (1) 1141:18 use (33) 1103:18;1114:24; 1115:13,14,18; 1116:16,17,24;1117:2, 7,9;1118:3,6;1120:24; 1136:4,7,13;1142:20; 1143:11,11,16;1153:9; 1160:6;1171:6,20; 1182:16,19;1206:11; 1210:8;1214:23; 1215:5;1223:7; 1244:19 used (17) 1115:11;1128:12;	valid (1) 1138:15 value (40) 1105:7;1121:23; 1122:6;1130:22,23; 1131:11;1132:11,14; 1133:20,20,21,23; 1134:10,22;1142:4; 1148:1,6;1149:6,7; 1152:9;1160:11,14,20; 1161:11,14;1163:15; 1164:14;1167:7; 1168:21,22,23;1173:5; 1180:19,23;1182:7; 1227:12,19;1228:3; 1232:9;1235:2 values (13) 1129:21;1130:11; 1140:14;1147:13; 1148:8;1160:11; 1163:3;1164:13; 1172:21;1173:22; 1191:7,19;1203:5 variable (10) 1116:14,19;1117:1; 1125:5,5;1131:3,7,10, 24;1132:5

				January 14, 2015
1120:24;1122:6,6;	1205:20;1206:15,20;	Weatherford (1)	1135:2,2;1136:20;	1144:6,19;1145:16;
1123:9;1126:22;	1207:2,14;1208:14;	1109:11	1137:3;1139:5;	1159:3;1162:19;
1130:16;1131:4;	1210:12,16,18;	web (1)	1144:10,24;1145:16,	1168:1;1172:13;
1130:10,1131:4,	1211:10,14;1212:1,8;	1187:11	21;1146:8;1147:12,20,	1173:18;1174:5;
1149:10	1225:3,21,24;1226:8;	Wednesday (2)	21;1148:6,8,9,10;	1178:12;1186:3,5;
variation (1)	1231:16,22;1243:21	1155:22,24	1149:15;1158:8,22;	1212:24;1222:15;
1122:2	Vissering's (4)	week (2)	1159:11;1170:12;	1232:5;1244:6,10,24
various (3)	1169:9;1229:17;	1155:19;1259:7	1176:6;1177:4;1178:4,	worked (3)
1117:7;1170:22;	1240:15,18	weeks (3)	6,10,17,18,19;1179:11,	1120:10;1172:18;
1171:10	Vista (1)	1210:10;1211:20;	20;1180:22;1182:8;	1202:14
vary (4)	1109:19	1212:2	1186:20;1189:1,9,16;	working (4)
1117:9,11,13;	vitae (1)	weight (2)	1192:14,19;1193:3,6,	1104:5;1120:12;
1177:14	1192:16	1179:1;1236:6	15;1194:15;1201:4,21;	1176:14;1185:2
vegetation (1)	Vitzthum (4)	welcome (3)	1202:9;1203:23;	works (5)
1254:16	1102:12,13;1260:5,6	1104:15;1113:7;	1204:5;1205:3;	1112:18,21;1114:9;
vendors (1)	VOICE (2)	1154:19	1212:22;1225:4,10;	1186:4;1228:21
1181:8	1163:10;1216:13	weren't (1)	1226:5;1230:3,10,15;	world (4)
Ventures (6)	volume (3)	1161:17	1231:10;1236:7;	1141:5;1142:5;
1157:11,19;1192:17;	1125:10,15,23	west (9)	1238:5,7,13;1241:3,24;	1245:21,23
1199:10,12;1207:11	volumes (3)	1159:2;1194:16;	1244:3,4;1245:3;	worried (1)
venue (1)	1148:21;1234:11;	1195:14,16,22;1197:4;	1247:13;1248:4,11,14,	1138:6
1189:18	1258:1	1198:1,23;1207:9	16;1249:2,8;1250:10;	worry (1)
venues (1)		what's (17)	1252:23;1253:2;	1148:6
1158:17	\mathbf{W}	1115:1;1116:18;	1256:10	worth (6)
verbal (1)		1132:11,13;1136:2;	windmill (6)	1134:13,16,20;
1220:4	wage (2)	1153:7;1162:1;	1150:6,12,18,22,22;	1149:22,24;1173:5
verbatim (1)	1166:9;1167:6	1164:13;1172:5;	1151:1	wrap (1)
1198:20	wait (1)	1177:24;1179:19;	windmills (1)	1114:8
versus (7)	1180:15	1188:20;1218:24;	1153:19	write (1)
1152:20;1153:20;	waiting (1)	1222:22;1228:23,24;	Wisconsin (2)	1194:8
1165:10;1178:18;	1222:8	1250:20	1110:14,15	write-up (1)
1183:20;1215:7;	walk (1)	whatsoever (1)	wish (1)	1119:17
1257:20	1108:8	1202:9	1224:21	writing (1)
1257:20 via (1)	1108:8 walking (1)	1202:9 whenever (2)	1224:21 within (27)	writing (1) 1193:24
1257:20 via (1) 1235:17	1108:8 walking (1) 1107:23	1202:9 whenever (2) 1174:5;1177:20	1224:21 within (27) 1104:12;1122:8;	writing (1) 1193:24 written (1)
1257:20 via (1) 1235:17 viable (1)	1108:8 walking (1) 1107:23 Walla (2)	1202:9 whenever (2) 1174:5;1177:20 whereas (1)	1224:21 within (27) 1104:12;1122:8; 1128:10,11,12,13,13;	writing (1) 1193:24 written (1) 1251:8
1257:20 via (1) 1235:17 viable (1) 1177:21	1108:8 walking (1) 1107:23 Walla (2) 1108:14,14	1202:9 whenever (2) 1174:5;1177:20 whereas (1) 1170:10	1224:21 within (27) 1104:12;1122:8; 1128:10,11,12,13,13; 1131:20;1136:20;	writing (1) 1193:24 written (1) 1251:8 wrong (2)
1257:20 via (1) 1235:17 viable (1) 1177:21 view (24)	1108:8 walking (1) 1107:23 Walla (2) 1108:14,14 Walton (5)	1202:9 whenever (2) 1174:5;1177:20 whereas (1) 1170:10 where's (1)	1224:21 within (27) 1104:12;1122:8; 1128:10,11,12,13,13; 1131:20;1136:20; 1137:2;1140:20;	writing (1) 1193:24 written (1) 1251:8 wrong (2) 1195:3;1220:14
1257:20 via (1) 1235:17 viable (1) 1177:21 view (24) 1118:11;1130:20,21;	1108:8 walking (1) 1107:23 Walla (2) 1108:14,14 Walton (5) 1103:4,5,7;1259:6,9	1202:9 whenever (2) 1174:5;1177:20 whereas (1) 1170:10 where's (1) 1150:11	1224:21 within (27) 1104:12;1122:8; 1128:10,11,12,13,13; 1131:20;1136:20; 1137:2;1140:20; 1142:3,7,10;1143:1;	writing (1) 1193:24 written (1) 1251:8 wrong (2) 1195:3;1220:14 wrote (4)
1257:20 via (1) 1235:17 viable (1) 1177:21 view (24) 1118:11;1130:20,21; 1131:7,8,9,15,18;	1108:8 walking (1) 1107:23 Walla (2) 1108:14,14 Walton (5) 1103:4,5,7;1259:6,9 wants (2)	1202:9 whenever (2) 1174:5;1177:20 whereas (1) 1170:10 where's (1) 1150:11 wherever (1)	1224:21 within (27) 1104:12;1122:8; 1128:10,11,12,13,13; 1131:20;1136:20; 1137:2;1140:20; 1142:3,7,10;1143:1; 1145:18;1147:22;	writing (1) 1193:24 written (1) 1251:8 wrong (2) 1195:3;1220:14 wrote (4) 1112:23;1193:23;
1257:20 via (1) 1235:17 viable (1) 1177:21 view (24) 1118:11;1130:20,21; 1131:7,8,9,15,18; 1132:6,6;1133:8,11,12,	1108:8 walking (1) 1107:23 Walla (2) 1108:14,14 Walton (5) 1103:4,5,7;1259:6,9 wants (2) 1177:20;1183:14	1202:9 whenever (2) 1174:5;1177:20 whereas (1) 1170:10 where's (1) 1150:11 wherever (1) 1258:7	1224:21 within (27) 1104:12;1122:8; 1128:10,11,12,13,13; 1131:20;1136:20; 1137:2;1140:20; 1142:3,7,10;1143:1; 1145:18;1147:22; 1150:12,23;1151:1,9,	writing (1) 1193:24 written (1) 1251:8 wrong (2) 1195:3;1220:14 wrote (4)
1257:20 via (1) 1235:17 viable (1) 1177:21 view (24) 1118:11;1130:20,21; 1131:7,8,9,15,18; 1132:6,6;1133:8,11,12, 15,20;1134:2,3;	1108:8 walking (1) 1107:23 Walla (2) 1108:14,14 Walton (5) 1103:4,5,7;1259:6,9 wants (2) 1177:20;1183:14 Waste (4)	1202:9 whenever (2) 1174:5;1177:20 whereas (1) 1170:10 where's (1) 1150:11 wherever (1) 1258:7 White (7)	1224:21 within (27) 1104:12;1122:8; 1128:10,11,12,13,13; 1131:20;1136:20; 1137:2;1140:20; 1142:3,7,10;1143:1; 1145:18;1147:22; 1150:12,23;1151:1,9, 11;1152:9;1162:21;	writing (1) 1193:24 written (1) 1251:8 wrong (2) 1195:3;1220:14 wrote (4) 1112:23;1193:23; 1194:6;1205:24
1257:20 via (1) 1235:17 viable (1) 1177:21 view (24) 1118:11;1130:20,21; 1131:7,8,9,15,18; 1132:6,6;1133:8,11,12, 15,20;1134:2,3; 1135:14;1147:21,23;	1108:8 walking (1) 1107:23 Walla (2) 1108:14,14 Walton (5) 1103:4,5,7;1259:6,9 wants (2) 1177:20;1183:14 Waste (4) 1160:24;1220:15;	1202:9 whenever (2) 1174:5;1177:20 whereas (1) 1170:10 where's (1) 1150:11 wherever (1) 1258:7 White (7) 1189:9,24;1192:7;	1224:21 within (27) 1104:12;1122:8; 1128:10,11,12,13,13; 1131:20;1136:20; 1137:2;1140:20; 1142:3,7,10;1143:1; 1145:18;1147:22; 1150:12,23;1151:1,9, 11;1152:9;1162:21; 1202:12;1237:17;	writing (1) 1193:24 written (1) 1251:8 wrong (2) 1195:3;1220:14 wrote (4) 1112:23;1193:23;
1257:20 via (1) 1235:17 viable (1) 1177:21 view (24) 1118:11;1130:20,21; 1131:7,8,9,15,18; 1132:6,6;1133:8,11,12, 15,20;1134:2,3; 1135:14;1147:21,23; 1148:9;1150:12,13;	1108:8 walking (1) 1107:23 Walla (2) 1108:14,14 Walton (5) 1103:4,5,7;1259:6,9 wants (2) 1177:20;1183:14 Waste (4) 1160:24;1220:15; 1221:14;1222:3	1202:9 whenever (2) 1174:5;1177:20 whereas (1) 1170:10 where's (1) 1150:11 wherever (1) 1258:7 White (7) 1189:9,24;1192:7; 1193:3,6,12;1231:3	1224:21 within (27) 1104:12;1122:8; 1128:10,11,12,13,13; 1131:20;1136:20; 1137:2;1140:20; 1142:3,7,10;1143:1; 1145:18;1147:22; 1150:12,23;1151:1,9, 11;1152:9;1162:21; 1202:12;1237:17; 1251:18	writing (1) 1193:24 written (1) 1251:8 wrong (2) 1195:3;1220:14 wrote (4) 1112:23;1193:23; 1194:6;1205:24
1257:20 via (1) 1235:17 viable (1) 1177:21 view (24) 1118:11;1130:20,21; 1131:7,8,9,15,18; 1132:6,6;1133:8,11,12, 15,20;1134:2,3; 1135:14;1147:21,23; 1148:9;1150:12,13; 1182:5	1108:8 walking (1) 1107:23 Walla (2) 1108:14,14 Walton (5) 1103:4,5,7;1259:6,9 wants (2) 1177:20;1183:14 Waste (4) 1160:24;1220:15; 1221:14;1222:3 water (4)	1202:9 whenever (2) 1174:5;1177:20 whereas (1) 1170:10 where's (1) 1150:11 wherever (1) 1258:7 White (7) 1189:9,24;1192:7; 1193:3,6,12;1231:3 Whiteside (1)	1224:21 within (27) 1104:12;1122:8; 1128:10,11,12,13,13; 1131:20;1136:20; 1137:2;1140:20; 1142:3,7,10;1143:1; 1145:18;1147:22; 1150:12,23;1151:1,9, 11;1152:9;1162:21; 1202:12;1237:17; 1251:18 without (4)	writing (1) 1193:24 written (1) 1251:8 wrong (2) 1195:3;1220:14 wrote (4) 1112:23;1193:23; 1194:6;1205:24 Y yard (11)
1257:20 via (1) 1235:17 viable (1) 1177:21 view (24) 1118:11;1130:20,21; 1131:7,8,9,15,18; 1132:6,6;1133:8,11,12, 15,20;1134:2,3; 1135:14;1147:21,23; 1148:9;1150:12,13; 1182:5 viewed (1)	1108:8 walking (1) 1107:23 Walla (2) 1108:14,14 Walton (5) 1103:4,5,7;1259:6,9 wants (2) 1177:20;1183:14 Waste (4) 1160:24;1220:15; 1221:14;1222:3 water (4) 1141:9;1182:24;	1202:9 whenever (2) 1174:5;1177:20 whereas (1) 1170:10 where's (1) 1150:11 wherever (1) 1258:7 White (7) 1189:9,24;1192:7; 1193:3,6,12;1231:3 Whiteside (1) 1241:7	1224:21 within (27) 1104:12;1122:8; 1128:10,11,12,13,13; 1131:20;1136:20; 1137:2;1140:20; 1142:3,7,10;1143:1; 1145:18;1147:22; 1150:12,23;1151:1,9, 11;1152:9;1162:21; 1202:12;1237:17; 1251:18 without (4) 1135:15;1145:9;	writing (1) 1193:24 written (1) 1251:8 wrong (2) 1195:3;1220:14 wrote (4) 1112:23;1193:23; 1194:6;1205:24 Y yard (11) 1164:9;1167:5;
1257:20 via (1) 1235:17 viable (1) 1177:21 view (24) 1118:11;1130:20,21; 1131:7,8,9,15,18; 1132:6,6;1133:8,11,12, 15,20;1134:2,3; 1135:14;1147:21,23; 1148:9;1150:12,13; 1182:5 viewed (1) 1118:10	1108:8 walking (1) 1107:23 Walla (2) 1108:14,14 Walton (5) 1103:4,5,7;1259:6,9 wants (2) 1177:20;1183:14 Waste (4) 1160:24;1220:15; 1221:14;1222:3 water (4) 1141:9;1182:24; 1183:2;1200:9	1202:9 whenever (2) 1174:5;1177:20 whereas (1) 1170:10 where's (1) 1150:11 wherever (1) 1258:7 White (7) 1189:9,24;1192:7; 1193:3,6,12;1231:3 Whiteside (1) 1241:7 whole (3)	1224:21 within (27) 1104:12;1122:8; 1128:10,11,12,13,13; 1131:20;1136:20; 1142:3,7,10;1143:1; 1145:18;1147:22; 1150:12,23;1151:1,9, 11;1152:9;1162:21; 1202:12;1237:17; 1251:18 without (4) 1135:15;1145:9; 1179:24;1227:21	writing (1) 1193:24 written (1) 1251:8 wrong (2) 1195:3;1220:14 wrote (4) 1112:23;1193:23; 1194:6;1205:24 Y yard (11) 1164:9;1167:5; 1213:10,18;1214:6,7;
1257:20 via (1) 1235:17 viable (1) 1177:21 view (24) 1118:11;1130:20,21; 1131:7,8,9,15,18; 1132:6,6;1133:8,11,12, 15,20;1134:2,3; 1135:14;1147:21,23; 1148:9;1150:12,13; 1182:5 viewed (1) 1118:10 views (4)	1108:8 walking (1) 1107:23 Walla (2) 1108:14,14 Walton (5) 1103:4,5,7;1259:6,9 wants (2) 1177:20;1183:14 Waste (4) 1160:24;1220:15; 1221:14;1222:3 water (4) 1141:9;1182:24; 1183:2;1200:9 way (23)	1202:9 whenever (2) 1174:5;1177:20 whereas (1) 1170:10 where's (1) 1150:11 wherever (1) 1258:7 White (7) 1189:9,24;1192:7; 1193:3,6,12;1231:3 Whiteside (1) 1241:7 whole (3) 1181:17;1183:4;	1224:21 within (27) 1104:12;1122:8; 1128:10,11,12,13,13; 1131:20;1136:20; 1137:2;1140:20; 1142:3,7,10;1143:1; 1145:18;1147:22; 1150:12,23;1151:1,9, 11;1152:9;1162:21; 1202:12;1237:17; 1251:18 without (4) 1135:15;1145:9; 1179:24;1227:21 witness (6)	writing (1) 1193:24 written (1) 1251:8 wrong (2) 1195:3;1220:14 wrote (4) 1112:23;1193:23; 1194:6;1205:24 Y yard (11) 1164:9;1167:5; 1213:10,18;1214:6,7; 1216:18,22;1232:12;
1257:20 via (1) 1235:17 viable (1) 1177:21 view (24) 1118:11;1130:20,21; 1131:7,8,9,15,18; 1132:6,6;1133:8,11,12, 15,20;1134:2,3; 1135:14;1147:21,23; 1148:9;1150:12,13; 1182:5 viewed (1) 1118:10 views (4) 1130:17;1132:3,21;	1108:8 walking (1) 1107:23 Walla (2) 1108:14,14 Walton (5) 1103:4,5,7;1259:6,9 wants (2) 1177:20;1183:14 Waste (4) 1160:24;1220:15; 1221:14;1222:3 water (4) 1141:9;1182:24; 1183:2;1200:9 way (23) 1106:1;1112:7;	1202:9 whenever (2) 1174:5;1177:20 whereas (1) 1170:10 where's (1) 1150:11 wherever (1) 1258:7 White (7) 1189:9,24;1192:7; 1193:3,6,12;1231:3 Whiteside (1) 1241:7 whole (3) 1181:17;1183:4; 1239:16	1224:21 within (27) 1104:12;1122:8; 1128:10,11,12,13,13; 1131:20;1136:20; 1137:2;1140:20; 1142:3,7,10;1143:1; 1145:18;1147:22; 1150:12,23;1151:1,9, 11;1152:9;1162:21; 1202:12;1237:17; 1251:18 without (4) 1135:15;1145:9; 1179:24;1227:21 witness (6) 1154:24;1155:21;	writing (1) 1193:24 written (1) 1251:8 wrong (2) 1195:3;1220:14 wrote (4) 1112:23;1193:23; 1194:6;1205:24 Y yard (11) 1164:9;1167:5; 1213:10,18;1214:6,7; 1216:18,22;1232:12; 1233:9;1257:22
1257:20 via (1) 1235:17 viable (1) 1177:21 view (24) 1118:11;1130:20,21; 1131:7,8,9,15,18; 1132:6,6;1133:8,11,12, 15,20;1134:2,3; 1135:14;1147:21,23; 1148:9;1150:12,13; 1182:5 viewed (1) 1118:10 views (4) 1130:17;1132:3,21; 1133:6	1108:8 walking (1) 1107:23 Walla (2) 1108:14,14 Walton (5) 1103:4,5,7;1259:6,9 wants (2) 1177:20;1183:14 Waste (4) 1160:24;1220:15; 1221:14;1222:3 water (4) 1141:9;1182:24; 1183:2;1200:9 way (23) 1106:1;1112:7; 1116:15;1118:7,23;	1202:9 whenever (2) 1174:5;1177:20 whereas (1) 1170:10 where's (1) 1150:11 wherever (1) 1258:7 White (7) 1189:9,24;1192:7; 1193:3,6,12;1231:3 Whiteside (1) 1241:7 whole (3) 1181:17;1183:4; 1239:16 wholesale (2)	1224:21 within (27) 1104:12;1122:8; 1128:10,11,12,13,13; 1131:20;1136:20; 1137:2;1140:20; 1142:3,7,10;1143:1; 1145:18;1147:22; 1150:12,23;1151:1,9, 11;1152:9;1162:21; 1202:12;1237:17; 1251:18 without (4) 1135:15;1145:9; 1179:24;1227:21 witness (6) 1154:24;1155:21; 1197:8;1222:13;	writing (1) 1193:24 written (1) 1251:8 wrong (2) 1195:3;1220:14 wrote (4) 1112:23;1193:23; 1194:6;1205:24 Y yard (11) 1164:9;1167:5; 1213:10,18;1214:6,7; 1216:18,22;1232:12; 1233:9;1257:22 yards (13)
1257:20 via (1) 1235:17 viable (1) 1177:21 view (24) 1118:11;1130:20,21; 1131:7,8,9,15,18; 1132:6,6;1133:8,11,12, 15,20;1134:2,3; 1135:14;1147:21,23; 1148:9;1150:12,13; 1182:5 viewed (1) 1118:10 views (4) 1130:17;1132:3,21; 1133:6 Virginia (9)	1108:8 walking (1) 1107:23 Walla (2) 1108:14,14 Walton (5) 1103:4,5,7;1259:6,9 wants (2) 1177:20;1183:14 Waste (4) 1160:24;1220:15; 1221:14;1222:3 water (4) 1141:9;1182:24; 1183:2;1200:9 way (23) 1106:1;1112:7; 1116:15;1118:7,23; 1126:5;1133:3;	1202:9 whenever (2) 1174:5;1177:20 whereas (1) 1170:10 where's (1) 1150:11 wherever (1) 1258:7 White (7) 1189:9,24;1192:7; 1193:3,6,12;1231:3 Whiteside (1) 1241:7 whole (3) 1181:17;1183:4; 1239:16 wholesale (2) 1257:21,24	1224:21 within (27) 1104:12;1122:8; 1128:10,11,12,13,13; 1131:20;1136:20; 1137:2;1140:20; 1142:3,7,10;1143:1; 1145:18;1147:22; 1150:12,23;1151:1,9, 11;1152:9;1162:21; 1202:12;1237:17; 1251:18 without (4) 1135:15;1145:9; 1179:24;1227:21 witness (6) 1154:24;1155:21; 1197:8;1222:13; 1233:17;1256:21	writing (1) 1193:24 written (1) 1251:8 wrong (2) 1195:3;1220:14 wrote (4) 1112:23;1193:23; 1194:6;1205:24 Y yard (11) 1164:9;1167:5; 1213:10,18;1214:6,7; 1216:18,22;1232:12; 1233:9;1257:22 yards (13) 1160:18;1164:23;
1257:20 via (1) 1235:17 viable (1) 1177:21 view (24) 1118:11;1130:20,21; 1131:7,8,9,15,18; 1132:6,6;1133:8,11,12, 15,20;1134:2,3; 1135:14;1147:21,23; 1148:9;1150:12,13; 1182:5 viewed (1) 1118:10 views (4) 1130:17;1132:3,21; 1133:6 Virginia (9) 1190:20;1194:16;	1108:8 walking (1) 1107:23 Walla (2) 1108:14,14 Walton (5) 1103:4,5,7;1259:6,9 wants (2) 1177:20;1183:14 Waste (4) 1160:24;1220:15; 1221:14;1222:3 water (4) 1141:9;1182:24; 1183:2;1200:9 way (23) 1106:1;1112:7; 1116:15;1118:7,23; 1126:5;1133:3; 1137:10,11,11,21;	1202:9 whenever (2) 1174:5;1177:20 whereas (1) 1170:10 where's (1) 1150:11 wherever (1) 1258:7 White (7) 1189:9,24;1192:7; 1193:3,6,12;1231:3 Whiteside (1) 1241:7 whole (3) 1181:17;1183:4; 1239:16 wholesale (2) 1257:21,24 Who's (3)	1224:21 within (27) 1104:12;1122:8; 1128:10,11,12,13,13; 1131:20;1136:20; 1137:2;1140:20; 1142:3,7,10;1143:1; 1145:18;1147:22; 1150:12,23;1151:1,9, 11;1152:9;1162:21; 1202:12;1237:17; 1251:18 without (4) 1135:15;1145:9; 1179:24;1227:21 witness (6) 1154:24;1155:21; 1197:8;1222:13; 1233:17;1256:21 witnesses (8)	writing (1) 1193:24 written (1) 1251:8 wrong (2) 1195:3;1220:14 wrote (4) 1112:23;1193:23; 1194:6;1205:24 Y yard (11) 1164:9;1167:5; 1213:10,18;1214:6,7; 1216:18,22;1232:12; 1233:9;1257:22 yards (13) 1160:18;1164:23; 1165:21;1166:3,3;
1257:20 via (1) 1235:17 viable (1) 1177:21 view (24) 1118:11;1130:20,21; 1131:7,8,9,15,18; 1132:6,6;1133:8,11,12, 15,20;1134:2,3; 1135:14;1147:21,23; 1148:9;1150:12,13; 1182:5 viewed (1) 1118:10 views (4) 1130:17;1132:3,21; 1133:6 Virginia (9) 1190:20;1194:16; 1195:14,16,22;1197:4;	1108:8 walking (1) 1107:23 Walla (2) 1108:14,14 Walton (5) 1103:4,5,7;1259:6,9 wants (2) 1177:20;1183:14 Waste (4) 1160:24;1220:15; 1221:14;1222:3 water (4) 1141:9;1182:24; 1183:2;1200:9 way (23) 1106:1;1112:7; 1116:15;1118:7,23; 1126:5;1133:3; 1137:10,11,11,21; 1147:13,20;1171:4;	1202:9 whenever (2) 1174:5;1177:20 whereas (1) 1170:10 where's (1) 1150:11 wherever (1) 1258:7 White (7) 1189:9,24;1192:7; 1193:3,6,12;1231:3 Whiteside (1) 1241:7 whole (3) 1181:17;1183:4; 1239:16 wholesale (2) 1257:21,24 Who's (3) 1212:4,6;1230:14	1224:21 within (27) 1104:12;1122:8; 1128:10,11,12,13,13; 1131:20;1136:20; 1137:2;1140:20; 1142:3,7,10;1143:1; 1145:18;1147:22; 1150:12,23;1151:1,9, 11;1152:9;1162:21; 1202:12;1237:17; 1251:18 without (4) 1135:15;1145:9; 1179:24;1227:21 witness (6) 1154:24;1155:21; 1197:8;1222:13; 1233:17;1256:21 witnesses (8) 1103:19;1155:10,19;	writing (1) 1193:24 written (1) 1251:8 wrong (2) 1195:3;1220:14 wrote (4) 1112:23;1193:23; 1194:6;1205:24 Y yard (11) 1164:9;1167:5; 1213:10,18;1214:6,7; 1216:18,22;1232:12; 1233:9;1257:22 yards (13) 1160:18;1164:23; 1165:21;1166:3,3; 1186:2;1213:13,14,15;
1257:20 via (1) 1235:17 viable (1) 1177:21 view (24) 1118:11;1130:20,21; 1131:7,8,9,15,18; 1132:6,6;1133:8,11,12, 15,20;1134:2,3; 1135:14;1147:21,23; 1148:9;1150:12,13; 1182:5 viewed (1) 1118:10 views (4) 1130:17;1132:3,21; 1133:6 Virginia (9) 1190:20;1194:16; 1195:14,16,22;1197:4; 1198:1,23;1207:9	1108:8 walking (1) 1107:23 Walla (2) 1108:14,14 Walton (5) 1103:4,5,7;1259:6,9 wants (2) 1177:20;1183:14 Waste (4) 1160:24;1220:15; 1221:14;1222:3 water (4) 1141:9;1182:24; 1183:2;1200:9 way (23) 1106:1;1112:7; 1116:15;1118:7,23; 1126:5;1133:3; 1137:10,11,11,21; 1147:13,20;1171:4; 1173:11;1190:8,17;	1202:9 whenever (2) 1174:5;1177:20 whereas (1) 1170:10 where's (1) 1150:11 wherever (1) 1258:7 White (7) 1189:9,24;1192:7; 1193:3,6,12;1231:3 Whiteside (1) 1241:7 whole (3) 1181:17;1183:4; 1239:16 wholesale (2) 1257:21,24 Who's (3) 1212:4,6;1230:14 wide (1)	1224:21 within (27) 1104:12;1122:8; 1128:10,11,12,13,13; 1131:20;1136:20; 1137:2;1140:20; 1142:3,7,10;1143:1; 1145:18;1147:22; 1150:12,23;1151:1,9, 11;1152:9;1162:21; 1202:12;1237:17; 1251:18 without (4) 1135:15;1145:9; 1179:24;1227:21 witness (6) 1154:24;1155:21; 1197:8;1222:13; 1233:17;1256:21 witnesses (8) 1103:19;1155:10,19; 1156:4,8,16;1187:6,8	writing (1) 1193:24 written (1) 1251:8 wrong (2) 1195:3;1220:14 wrote (4) 1112:23;1193:23; 1194:6;1205:24 Y yard (11) 1164:9;1167:5; 1213:10,18;1214:6,7; 1216:18,22;1232:12; 1233:9;1257:22 yards (13) 1160:18;1164:23; 1165:21;1166:3,3; 1186:2;1213:13,14,15; 1232:14,18;1235:1,10
1257:20 via (1) 1235:17 viable (1) 1177:21 view (24) 1118:11;1130:20,21; 1131:7,8,9,15,18; 1132:6,6;1133:8,11,12, 15,20;1134:2,3; 1135:14;1147:21,23; 1148:9;1150:12,13; 1182:5 viewed (1) 1118:10 views (4) 1130:17;1132:3,21; 1133:6 Virginia (9) 1190:20;1194:16; 1195:14,16,22;1197:4; 1198:1,23;1207:9 visibility (10)	1108:8 walking (1) 1107:23 Walla (2) 1108:14,14 Walton (5) 1103:4,5,7;1259:6,9 wants (2) 1177:20;1183:14 Waste (4) 1160:24;1220:15; 1221:14;1222:3 water (4) 1141:9;1182:24; 1183:2;1200:9 way (23) 1106:1;1112:7; 1116:15;1118:7,23; 1126:5;1133:3; 1137:10,11,11,21; 1147:13,20;1171:4; 1173:11;1190:8,17; 1214:11;1219:21;	1202:9 whenever (2) 1174:5;1177:20 whereas (1) 1170:10 where's (1) 1150:11 wherever (1) 1258:7 White (7) 1189:9,24;1192:7; 1193:3,6,12;1231:3 Whiteside (1) 1241:7 whole (3) 1181:17;1183:4; 1239:16 wholesale (2) 1257:21,24 Who's (3) 1212:4,6;1230:14 wide (1) 1172:4	1224:21 within (27) 1104:12;1122:8; 1128:10,11,12,13,13; 1131:20;1136:20; 1137:2;1140:20; 1142:3,7,10;1143:1; 1145:18;1147:22; 1150:12,23;1151:1,9, 11;1152:9;1162:21; 1202:12;1237:17; 1251:18 without (4) 1135:15;1145:9; 1179:24;1227:21 witness (6) 1154:24;1155:21; 1197:8;1222:13; 1233:17;1256:21 witnesses (8) 1103:19;1155:10,19; 1156:4,8,16;1187:6,8 won (1)	writing (1) 1193:24 written (1) 1251:8 wrong (2) 1195:3;1220:14 wrote (4) 1112:23;1193:23; 1194:6;1205:24 Y yard (11) 1164:9;1167:5; 1213:10,18;1214:6,7; 1216:18,22;1232:12; 1233:9;1257:22 yards (13) 1160:18;1164:23; 1165:21;1166:3,3; 1186:2;1213:13,14,15; 1232:14,18;1235:1,10 year (9)
1257:20 via (1) 1235:17 viable (1) 1177:21 view (24) 1118:11;1130:20,21; 1131:7,8,9,15,18; 1132:6,6;1133:8,11,12, 15,20;1134:2,3; 1135:14;1147:21,23; 1148:9;1150:12,13; 1182:5 viewed (1) 1118:10 views (4) 1130:17;1132:3,21; 1133:6 Virginia (9) 1190:20;1194:16; 1195:14,16,22;1197:4; 1198:1,23;1207:9 visibility (10) 1118:4,7,13,14,16,	1108:8 walking (1) 1107:23 Walla (2) 1108:14,14 Walton (5) 1103:4,5,7;1259:6,9 wants (2) 1177:20;1183:14 Waste (4) 1160:24;1220:15; 1221:14;1222:3 water (4) 1141:9;1182:24; 1183:2;1200:9 way (23) 1106:1;1112:7; 1116:15;1118:7,23; 1126:5;1133:3; 1137:10,11,11,21; 1147:13,20;1171:4; 1173:11;1190:8,17; 1214:11;1219:21; 1220:9;1246:13;	1202:9 whenever (2) 1174:5;1177:20 whereas (1) 1170:10 where's (1) 1150:11 wherever (1) 1258:7 White (7) 1189:9,24;1192:7; 1193:3,6,12;1231:3 Whiteside (1) 1241:7 whole (3) 1181:17;1183:4; 1239:16 wholesale (2) 1257:21,24 Who's (3) 1212:4,6;1230:14 wide (1) 1172:4 willing (5)	1224:21 within (27) 1104:12;1122:8; 1128:10,11,12,13,13; 1131:20;1136:20; 1137:2;1140:20; 1142:3,7,10;1143:1; 1145:18;1147:22; 1150:12,23;1151:1,9, 11;1152:9;1162:21; 1202:12;1237:17; 1251:18 without (4) 1135:15;1145:9; 1179:24;1227:21 witness (6) 1154:24;1155:21; 1197:8;1222:13; 1233:17;1256:21 witnesses (8) 1103:19;1155:10,19; 1156:4,8,16;1187:6,8 won (1) 1230:14	writing (1) 1193:24 written (1) 1251:8 wrong (2) 1195:3;1220:14 wrote (4) 1112:23;1193:23; 1194:6;1205:24 Y yard (11) 1164:9;1167:5; 1213:10,18;1214:6,7; 1216:18,22;1232:12; 1233:9;1257:22 yards (13) 1160:18;1164:23; 1165:21;1166:3,3; 1186:2;1213:13,14,15; 1232:14,18;1235:1,10 year (9) 1114:14;1129:14;
1257:20 via (1) 1235:17 viable (1) 1177:21 view (24) 1118:11;1130:20,21; 1131:7,8,9,15,18; 1132:6,6;1133:8,11,12, 15,20;1134:2,3; 1148:9;1150:12,13; 1182:5 viewed (1) 1118:10 views (4) 1130:17;1132:3,21; 1133:6 Virginia (9) 1190:20;1194:16; 1195:14,16,22;1197:4; 1198:1,23;1207:9 visibility (10) 1118:4,7,13,14,16, 18,20,20;1119:3,5	1108:8 walking (1) 1107:23 Walla (2) 1108:14,14 Walton (5) 1103:4,5,7;1259:6,9 wants (2) 1177:20;1183:14 Waste (4) 1160:24;1220:15; 1221:14;1222:3 water (4) 1141:9;1182:24; 1183:2;1200:9 way (23) 1106:1;1112:7; 1116:15;1118:7,23; 1126:5;1133:3; 1137:10,11,11,21; 1147:13,20;1171:4; 1173:11;1190:8,17; 1214:11;1219:21; 1220:9;1246:13; 1253:16;1254:7	1202:9 whenever (2) 1174:5;1177:20 whereas (1) 1170:10 where's (1) 1150:11 wherever (1) 1258:7 White (7) 1189:9,24;1192:7; 1193:3,6,12;1231:3 Whiteside (1) 1241:7 whole (3) 1181:17;1183:4; 1239:16 wholesale (2) 1257:21,24 Who's (3) 1212:4,6;1230:14 wide (1) 1172:4 willing (5) 1161:4;1164:22;	1224:21 within (27) 1104:12;1122:8; 1128:10,11,12,13,13; 1131:20;1136:20; 1137:2;1140:20; 1142:3,7,10;1143:1; 1145:18;1147:22; 1150:12,23;1151:1,9, 11;1152:9;1162:21; 1202:12;1237:17; 1251:18 without (4) 1135:15;1145:9; 1179:24;1227:21 witness (6) 1154:24;1155:21; 1197:8;1222:13; 1233:17;1256:21 witnesses (8) 1103:19;1155:10,19; 1156:4,8,16;1187:6,8 won (1) 1230:14 word (3)	writing (1) 1193:24 written (1) 1251:8 wrong (2) 1195:3;1220:14 wrote (4) 1112:23;1193:23; 1194:6;1205:24 Y yard (11) 1164:9;1167:5; 1213:10,18;1214:6,7; 1216:18,22;1232:12; 1233:9;1257:22 yards (13) 1160:18;1164:23; 1165:21;1166:3,3; 1186:2;1213:13,14,15; 1232:14,18;1235:1,10 year (9) 1114:14;1129:14; 1175:18;1196:19;
1257:20 via (1) 1235:17 viable (1) 1177:21 view (24) 1118:11;1130:20,21; 1131:7,8,9,15,18; 1132:6,6;1133:8,11,12, 15,20;1134:2,3; 1135:14;1147:21,23; 1148:9;1150:12,13; 1182:5 viewed (1) 1118:10 views (4) 1130:17;1132:3,21; 1133:6 Virginia (9) 1190:20;1194:16; 1195:14,16,22;1197:4; 1198:1,23;1207:9 visibility (10) 1118:4,7,13,14,16, 18,20,20;1119:3,5 visited (1)	1108:8 walking (1) 1107:23 Walla (2) 1108:14,14 Walton (5) 1103:4,5,7;1259:6,9 wants (2) 1177:20;1183:14 Waste (4) 1160:24;1220:15; 1221:14;1222:3 water (4) 1141:9;1182:24; 1183:2;1200:9 way (23) 1106:1;1112:7; 1116:15;1118:7,23; 1126:5;1133:3; 1137:10,11,11,21; 1147:13,20;1171:4; 1173:11;1190:8,17; 1214:11;1219:21; 1220:9;1246:13; 1253:16;1254:7 Wayne (1)	1202:9 whenever (2) 1174:5;1177:20 whereas (1) 1170:10 where's (1) 1150:11 wherever (1) 1258:7 White (7) 1189:9,24;1192:7; 1193:3,6,12;1231:3 Whiteside (1) 1241:7 whole (3) 1181:17;1183:4; 1239:16 wholesale (2) 1257:21,24 Who's (3) 1212:4,6;1230:14 wide (1) 1172:4 willing (5) 1161:4;1164:22; 1165:2;1184:6;	1224:21 within (27) 1104:12;1122:8; 1128:10,11,12,13,13; 1131:20;1136:20; 1137:2;1140:20; 1142:3,7,10;1143:1; 1145:18;1147:22; 1150:12,23;1151:1,9, 11;1152:9;1162:21; 1202:12;1237:17; 1251:18 without (4) 1135:15;1145:9; 1179:24;1227:21 witness (6) 1154:24;1155:21; 1197:8;1222:13; 1233:17;1256:21 witnesses (8) 1103:19;1155:10,19; 1156:4,8,16;1187:6,8 won (1) 1230:14 word (3) 1139:15;1162:17;	writing (1) 1193:24 written (1) 1251:8 wrong (2) 1195:3;1220:14 wrote (4) 1112:23;1193:23; 1194:6;1205:24 Y yard (11) 1164:9;1167:5; 1213:10,18;1214:6,7; 1216:18,22;1232:12; 1233:9;1257:22 yards (13) 1160:18;1164:23; 1165:21;1166:3,3; 1186:2;1213:13,14,15; 1232:14,18;1235:1,10 year (9) 1114:14;1129:14; 1175:18;1196:19; 1208:4;1211:11,15;
1257:20 via (1) 1235:17 viable (1) 1177:21 view (24) 1118:11;1130:20,21; 1131:7,8,9,15,18; 1132:6,6;1133:8,11,12, 15,20;1134:2,3; 1148:9;1150:12,13; 1182:5 viewed (1) 1118:10 views (4) 1130:17;1132:3,21; 1133:6 Virginia (9) 1190:20;1194:16; 1195:14,16,22;1197:4; 1198:1,23;1207:9 visibility (10) 1118:4,7,13,14,16, 18,20,20;1119:3,5 visited (1) 1118:16	1108:8 walking (1) 1107:23 Walla (2) 1108:14,14 Walton (5) 1103:4,5,7;1259:6,9 wants (2) 1177:20;1183:14 Waste (4) 1160:24;1220:15; 1221:14;1222:3 water (4) 1141:9;1182:24; 1183:2;1200:9 way (23) 1106:1;1112:7; 1116:15;1118:7,23; 1126:5;1133:3; 1137:10,11,11,21; 1147:13,20;1171:4; 1173:11;1190:8,17; 1214:11;1219:21; 1220:9;1246:13; 1253:16;1254:7 Wayne (1) 1111:1	1202:9 whenever (2) 1174:5;1177:20 whereas (1) 1170:10 where's (1) 1150:11 wherever (1) 1258:7 White (7) 1189:9,24;1192:7; 1193:3,6,12;1231:3 Whiteside (1) 1241:7 whole (3) 1181:17;1183:4; 1239:16 wholesale (2) 1257:21,24 Who's (3) 1212:4,6;1230:14 wide (1) 1172:4 willing (5) 1161:4;1164:22; 1165:2;1184:6; 1222:13	1224:21 within (27) 1104:12;1122:8; 1128:10,11,12,13,13; 1131:20;1136:20; 1137:2;1140:20; 1142:3,7,10;1143:1; 1145:18;1147:22; 1150:12,23;1151:1,9, 11;1152:9;1162:21; 1202:12;1237:17; 1251:18 without (4) 1135:15;1145:9; 1179:24;1227:21 witness (6) 1154:24;1155:21; 1197:8;1222:13; 1233:17;1256:21 witnesses (8) 1103:19;1155:10,19; 1156:4,8,16;1187:6,8 won (1) 1230:14 word (3) 1139:15;1162:17; 1206:11	writing (1) 1193:24 written (1) 1251:8 wrong (2) 1195:3;1220:14 wrote (4) 1112:23;1193:23; 1194:6;1205:24 Y yard (11) 1164:9;1167:5; 1213:10,18;1214:6,7; 1216:18,22;1232:12; 1233:9;1257:22 yards (13) 1160:18;1164:23; 1165:21;1166:3,3; 1186:2;1213:13,14,15; 1232:14,18;1235:1,10 year (9) 1114:14;1129:14; 1175:18;1196:19; 1208:4;1211:11,15; 1220:6;1243:9
1257:20 via (1) 1235:17 viable (1) 1177:21 view (24) 1118:11;1130:20,21; 1131:7,8,9,15,18; 1132:6,6;1133:8,11,12, 15,20;1134:2,3; 1135:14;1147:21,23; 1148:9;1150:12,13; 1182:5 viewed (1) 1118:10 views (4) 1130:17;1132:3,21; 1133:6 Virginia (9) 1190:20;1194:16; 1195:14,16,22;1197:4; 1198:1,23;1207:9 visibility (10) 1118:4,7,13,14,16, 18,20,20;1119:3,5 visited (1) 1118:16 Vissering (29)	1108:8 walking (1) 1107:23 Walla (2) 1108:14,14 Walton (5) 1103:4,5,7;1259:6,9 wants (2) 1177:20;1183:14 Waste (4) 1160:24;1220:15; 1221:14;1222:3 water (4) 1141:9;1182:24; 1183:2;1200:9 way (23) 1106:1;1112:7; 1116:15;1118:7,23; 1126:5;1133:3; 1137:10,11,11,21; 1147:13,20;1171:4; 1173:11;1190:8,17; 1214:11;1219:21; 1220:9;1246:13; 1253:16;1254:7 Wayne (1) 111:1 ways (5)	1202:9 whenever (2) 1174:5;1177:20 whereas (1) 1170:10 where's (1) 1150:11 wherever (1) 1258:7 White (7) 1189:9,24;1192:7; 1193:3,6,12;1231:3 Whiteside (1) 1241:7 whole (3) 1181:17;1183:4; 1239:16 wholesale (2) 1257:21,24 Who's (3) 1212:4,6;1230:14 wide (1) 1172:4 willing (5) 1161:4;1164:22; 1165:2;1184:6; 1222:13 Wind (86)	1224:21 within (27) 1104:12;1122:8; 1128:10,11,12,13,13; 1131:20;1136:20; 1142:3,7,10;1143:1; 1145:18;1147:22; 1150:12,23;1151:1,9, 11;1152:9;1162:21; 1202:12;1237:17; 1251:18 without (4) 1135:15;1145:9; 1179:24;1227:21 witness (6) 1154:24;1155:21; 1197:8;1222:13; 1233:17;1256:21 witnesses (8) 1103:19;1155:10,19; 1156:4,8,16;1187:6,8 won (1) 1230:14 word (3) 1139:15;1162:17; 1206:11 words (2)	writing (1) 1193:24 written (1) 1251:8 wrong (2) 1195:3;1220:14 wrote (4) 1112:23;1193:23; 1194:6;1205:24 Y yard (11) 1164:9;1167:5; 1213:10,18;1214:6,7; 1216:18,22;1232:12; 1233:9;1257:22 yards (13) 1160:18;1164:23; 1165:21;1166:3,3; 1186:2;1213:13,14,15; 1232:14,18;1235:1,10 year (9) 1114:14;1129:14; 1175:18;1196:19; 1208:4;1211:11,15; 1220:6;1243:9 yearly (1)
1257:20 via (1) 1235:17 viable (1) 1177:21 view (24) 1118:11;1130:20,21; 1131:7,8,9,15,18; 1132:6,6;1133:8,11,12, 15,20;1134:2,3; 1148:9;1150:12,13; 1182:5 viewed (1) 1118:10 views (4) 1130:17;1132:3,21; 1133:6 Virginia (9) 1190:20;1194:16; 1195:14,16,22;1197:4; 1198:1,23;1207:9 visibility (10) 1118:4,7,13,14,16, 18,20,20;1119:3,5 visited (1) 1118:16 Vissering (29) 1167:13,20;1169:7;	1108:8 walking (1) 1107:23 Walla (2) 1108:14,14 Walton (5) 1103:4,5,7;1259:6,9 wants (2) 1177:20;1183:14 Waste (4) 1160:24;1220:15; 1221:14;1222:3 water (4) 1141:9;1182:24; 1183:2;1200:9 way (23) 1106:1;1112:7; 1116:15;1118:7,23; 1126:5;1133:3; 1137:10,11,11,21; 1147:13,20;1171:4; 1173:11;1190:8,17; 1214:11;1219:21; 1220:9;1246:13; 1253:16;1254:7 Wayne (1) 1111:1 ways (5) 1116:16;1118:6;	1202:9 whenever (2) 1174:5;1177:20 whereas (1) 1170:10 where's (1) 1150:11 wherever (1) 1258:7 White (7) 1189:9,24;1192:7; 1193:3,6,12;1231:3 Whiteside (1) 1241:7 whole (3) 1181:17;1183:4; 1239:16 wholesale (2) 1257:21,24 Who's (3) 1212:4,6;1230:14 wide (1) 1172:4 willing (5) 1161:4;1164:22; 1165:2;1184:6; 1222:13 Wind (86) 1102:9;1109:11;	1224:21 within (27) 1104:12;1122:8; 1128:10,11,12,13,13; 1131:20;1136:20; 1142:3,7,10;1143:1; 1145:18;1147:22; 1150:12,23;1151:1,9, 11;1152:9;1162:21; 1202:12;1237:17; 1251:18 without (4) 1135:15;1145:9; 1179:24;1227:21 witness (6) 1154:24;1155:21; 1197:8;1222:13; 1233:17;1256:21 witnesses (8) 1103:19;1155:10,19; 1156:4,8,16;1187:6,8 won (1) 1230:14 word (3) 1139:15;1162:17; 1206:11 words (2) 1206:3,9	writing (1) 1193:24 written (1) 1251:8 wrong (2) 1195:3;1220:14 wrote (4) 1112:23;1193:23; 1194:6;1205:24 yard (11) 1164:9;1167:5; 1213:10,18;1214:6,7; 1216:18,22;1232:12; 1233:9;1257:22 yards (13) 1160:18;1164:23; 1165:21;1166:3,3; 1186:2;1213:13,14,15; 1232:14,18;1235:1,10 year (9) 1114:14;1129:14; 1175:18;1196:19; 1208:4;1211:11,15; 1220:6;1243:9 yearly (1) 1167:3
1257:20 via (1) 1235:17 viable (1) 1177:21 view (24) 1118:11;1130:20,21; 1131:7,8,9,15,18; 1132:6,6;1133:8,11,12, 15,20;1134:2,3; 1135:14;1147:21,23; 1148:9;1150:12,13; 1182:5 viewed (1) 1118:10 views (4) 1130:17;1132:3,21; 1133:6 Virginia (9) 1190:20;1194:16; 1195:14,16,22;1197:4; 1198:1,23;1207:9 visibility (10) 1118:4,7,13,14,16, 18,20,20;1119:3,5 visited (1) 1118:16 Vissering (29)	1108:8 walking (1) 1107:23 Walla (2) 1108:14,14 Walton (5) 1103:4,5,7;1259:6,9 wants (2) 1177:20;1183:14 Waste (4) 1160:24;1220:15; 1221:14;1222:3 water (4) 1141:9;1182:24; 1183:2;1200:9 way (23) 1106:1;1112:7; 1116:15;1118:7,23; 1126:5;1133:3; 1137:10,11,11,21; 1147:13,20;1171:4; 1173:11;1190:8,17; 1214:11;1219:21; 1220:9;1246:13; 1253:16;1254:7 Wayne (1) 111:1 ways (5)	1202:9 whenever (2) 1174:5;1177:20 whereas (1) 1170:10 where's (1) 1150:11 wherever (1) 1258:7 White (7) 1189:9,24;1192:7; 1193:3,6,12;1231:3 Whiteside (1) 1241:7 whole (3) 1181:17;1183:4; 1239:16 wholesale (2) 1257:21,24 Who's (3) 1212:4,6;1230:14 wide (1) 1172:4 willing (5) 1161:4;1164:22; 1165:2;1184:6; 1222:13 Wind (86)	1224:21 within (27) 1104:12;1122:8; 1128:10,11,12,13,13; 1131:20;1136:20; 1142:3,7,10;1143:1; 1145:18;1147:22; 1150:12,23;1151:1,9, 11;1152:9;1162:21; 1202:12;1237:17; 1251:18 without (4) 1135:15;1145:9; 1179:24;1227:21 witness (6) 1154:24;1155:21; 1197:8;1222:13; 1233:17;1256:21 witnesses (8) 1103:19;1155:10,19; 1156:4,8,16;1187:6,8 won (1) 1230:14 word (3) 1139:15;1162:17; 1206:11 words (2)	writing (1) 1193:24 written (1) 1251:8 wrong (2) 1195:3;1220:14 wrote (4) 1112:23;1193:23; 1194:6;1205:24 yard (11) 1164:9;1167:5; 1213:10,18;1214:6,7; 1216:18,22;1232:12; 1233:9;1257:22 yards (13) 1160:18;1164:23; 1165:21;1166:3,3; 1186:2;1213:13,14,15; 1232:14,18;1235:1,10 year (9) 1114:14;1129:14; 1175:18;1196:19; 1208:4;1211:11,15; 1220:6;1243:9 yearly (1)

		T		Junuary 11, 2016
1157:17;1170:6;	1136:5,13;1191:8;	14.70 (1)	1106:13;1111:15;	2400 (1)
1171:14;1172:24;	1236:13;1242:11,16;	1213:9	1143:21;1167:15;	1147:23
1175:13,24;1177:19,	1247:20;1258:13	14th (1)	1170:6;1177:19,19;	25 (4)
20;1178:19,23;	1,675,520 (1)	1102:5	1193:2;1243:9,13	1175:10;1250:12;
1196:21;1199:9;	1205:4	15 (17)	200 (6)	1251:2,5
1210:13;1212:11,16;	1.2 (4)	1104:8,12;1106:4;	1135:11,11,14,14,15;	250 (4)
1238:6;1243:13;	1150:24;1151:5;	1119:24;1120:4,5,5,6;	1145:18	1192:20;1193:1;
1250:3,5,12,13;1251:3,	1242:11,16	1158:11;1172:24;	2005 (3)	1252:1,2
5,9;1255:19	10 (16)	1175:18,23;1189:3;	1114:13;1120:9,9	251 (2)
yesterday (2)	1136:7,9,10,13;	1191:2,8,8;1192:15	2006 (1)	1189:22;1192:18
1146:10;1206:20	1138:2,3,4;1144:5;	15.6 (2)	1129:18	252 (3)
yield (1)	1153:23;1172:24;	1149:22;1150:3	2007 (3)	1200:2;1207:6;
1183:3	1190:17;1237:23;	1500 (1)	1189:10;1193:2,8	1257:4
		, ,		
York (1)	1238:1,2;1255:1,16	1145:5	2008 (1)	255 (1)
1111:12	10.14 (1)	16 (1)	1194:13	1239:9
young (1)	1216:18	1172:4	2009 (13)	256 (1)
1188:10	10:00 (1)	16.95 (2)	1104:19,20;1106:19,	1241:9
	1260:3	1214:2,7	23,24;1117:18,21;	258 (3)
${f Z}$	100 (5)	17 (2)	1118:2,15;1125:12;	1195:21;1197:24;
	1110:12;1143:1,5;	1190:4,12	1129:14;1195:22;	1207:8
ZBA (1)	1145:18;1175:13	17,000 (2)	1196:2	259 (2)
1187:3	103 (1)	1229:11,13	201 (2)	1196:6;1207:10
zero (24)	1110:20	1800 (2)	1227:16;1228:12	26 (1)
1131:9,12,19,20;	103,627 (1)		2011 (4)	1236:11
		1147:23,23		
1132:5,11,17,19,21,24;	1237:2	18th (1)	1114:14;1115:3,5;	26,112 (3)
1133:1;1134:7;1135:9,	106 (1)	1114:13	1120:9	1236:9,10,15
11;1137:13;1140:7;	1111:1	19 (1)	2012 (5)	260 (5)
1149:15;1151:4,15,16;	109 (1)	1158:18	1207:24;1208:1;	1187:1;1192:16;
1154:14,15,16,16	1111:5	1900 (3)	1235:24;1236:4;	1222:23;1239:1,3
zero-one (1)	11 (5)	1239:24;1240:3;	1247:21	262 (7)
1117:1	1125:12;1159:17;	1253:6	2013 (15)	1207:2,13,15,16;
zeros (3)	1236:24;1255:22;	192 (3)	1107:7,10;1114:10;	1208:3,22;1210:4
1132:3;1133:4,5	1256:13	1165:17,19;1236:8	1117:19;1118:12,14;	262A (4)
Zimmerman (2)	111,345 (2)	1976 (2)	1119:22;1121:5;	1207:3,14;1210:5,8
1102:18,19	1239:19,23	1157:16;1199:6	1130:12;1148:17;	262B (2)
zone (1)	112 (1)	1981 (2)	1150:12,1140:17,	1207:15;1226:15
1145:14		1157:18;1199:9	1241:11,12	265,812 (1)
	1111:11	1137.16,1199.9		
Zoning (4)	12 (4)	2	2014 (2)	1240:21
1102:7,8;1159:17;	1244:22;1245:1;	2	1158:1;1175:7	26th (2)
1255:20	1253:22;1255:16		2015 (1)	
	- 101 (1)			1259:8,8
Λ	124 (1)	2 (13)	1102:6	27 (1)
0	1196:20	2 (13) 1139:22;1144:6;	1102:6 206 (2)	27 (1) 1116:1
U	, ,		1102:6	27 (1)
	1196:20	1139:22;1144:6;	1102:6 206 (2)	27 (1) 1116:1
0.000 (2)	1196:20 125 (3)	1139:22;1144:6; 1186:6;1196:17;	1102:6 206 (2) 1240:18,23	27 (1) 1116:1 28 (6)
0.000 (2) 1150:7,7	1196:20 125 (3) 1229:11,13,18 1260 (1)	1139:22;1144:6; 1186:6;1196:17; 1210:4,6;1220:4; 1225:20;1234:8;	1102:6 206 (2) 1240:18,23 20-year (3) 1249:17;1251:11,12	27 (1) 1116:1 28 (6) 1149:20;1184:23; 1197:24;1198:6;
0.000 (2) 1150:7,7 002 (1)	1196:20 125 (3) 1229:11,13,18 1260 (1) 1239:5	1139:22;1144:6; 1186:6;1196:17; 1210:4,6;1220:4; 1225:20;1234:8; 1241:17;1242:11,16;	1102:6 206 (2) 1240:18,23 20-year (3) 1249:17;1251:11,12 21 (2)	27 (1) 1116:1 28 (6) 1149:20;1184:23; 1197:24;1198:6; 1218:6;1242:14
0.000 (2) 1150:7,7 002 (1) 1241:17	1196:20 125 (3) 1229:11,13,18 1260 (1) 1239:5 13 (4)	1139:22;1144:6; 1186:6;1196:17; 1210:4,6;1220:4; 1225:20;1234:8; 1241:17;1242:11,16; 1254:5	1102:6 206 (2) 1240:18,23 20-year (3) 1249:17;1251:11,12 21 (2) 1114:10;1241:11	27 (1) 1116:1 28 (6) 1149:20;1184:23; 1197:24;1198:6; 1218:6;1242:14 280 (2)
0.000 (2) 1150:7,7 002 (1) 1241:17 008 (1)	1196:20 125 (3) 1229:11,13,18 1260 (1) 1239:5 13 (4) 1106:20;1128:16;	1139:22;1144:6; 1186:6;1196:17; 1210:4,6;1220:4; 1225:20;1234:8; 1241:17;1242:11,16; 1254:5 2,135,230 (1)	1102:6 206 (2) 1240:18,23 20-year (3) 1249:17;1251:11,12 21 (2) 1114:10;1241:11 21,207 (1)	27 (1) 1116:1 28 (6) 1149:20;1184:23; 1197:24;1198:6; 1218:6;1242:14 280 (2) 1210:10;1212:2
0.000 (2) 1150:7,7 002 (1) 1241:17 008 (1) 1154:11	1196:20 125 (3) 1229:11,13,18 1260 (1) 1239:5 13 (4) 1106:20;1128:16; 1191:2;1195:22	1139:22;1144:6; 1186:6;1196:17; 1210:4,6;1220:4; 1225:20;1234:8; 1241:17;1242:11,16; 1254:5 2,135,230 (1) 1227:22	1102:6 206 (2) 1240:18,23 20-year (3) 1249:17;1251:11,12 21 (2) 1114:10;1241:11 21,207 (1) 1228:22	27 (1) 1116:1 28 (6) 1149:20;1184:23; 1197:24;1198:6; 1218:6;1242:14 280 (2) 1210:10;1212:2 28th (3)
0.000 (2) 1150:7,7 002 (1) 1241:17 008 (1) 1154:11 015 (1)	1196:20 125 (3) 1229:11,13,18 1260 (1) 1239:5 13 (4) 1106:20;1128:16; 1191:2;1195:22 13,223,678 (1)	1139:22;1144:6; 1186:6;1196:17; 1210:4,6;1220:4; 1225:20;1234:8; 1241:17;1242:11,16; 1254:5 2,135,230 (1) 1227:22 2,151,048 (2)	1102:6 206 (2) 1240:18,23 20-year (3) 1249:17;1251:11,12 21 (2) 1114:10;1241:11 21,207 (1) 1228:22 21st (1)	27 (1) 1116:1 28 (6) 1149:20;1184:23; 1197:24;1198:6; 1218:6;1242:14 280 (2) 1210:10;1212:2 28th (3) 1103:1,3,6
0.000 (2) 1150:7,7 002 (1) 1241:17 008 (1) 1154:11 015 (1) 1154:10	1196:20 125 (3) 1229:11,13,18 1260 (1) 1239:5 13 (4) 1106:20;1128:16; 1191:2;1195:22 13,223,678 (1) 1240:7	1139:22;1144:6; 1186:6;1196:17; 1210:4,6;1220:4; 1225:20;1234:8; 1241:17;1242:11,16; 1254:5 2,135,230 (1) 1227:22 2,151,048 (2) 1224:5,6	1102:6 206 (2) 1240:18,23 20-year (3) 1249:17;1251:11,12 21 (2) 1114:10;1241:11 21,207 (1) 1228:22 21st (1) 1259:5	27 (1) 1116:1 28 (6) 1149:20;1184:23; 1197:24;1198:6; 1218:6;1242:14 280 (2) 1210:10;1212:2 28th (3) 1103:1,3,6 29 (2)
0.000 (2) 1150:7,7 002 (1) 1241:17 008 (1) 1154:11 015 (1) 1154:10 02200.11 (1)	1196:20 125 (3) 1229:11,13,18 1260 (1) 1239:5 13 (4) 1106:20;1128:16; 1191:2;1195:22 13,223,678 (1) 1240:7 130 (1)	1139:22;1144:6; 1186:6;1196:17; 1210:4,6;1220:4; 1225:20;1234:8; 1241:17;1242:11,16; 1254:5 2,135,230 (1) 1227:22 2,151,048 (2) 1224:5,6 2,577,867 (1)	1102:6 206 (2) 1240:18,23 20-year (3) 1249:17;1251:11,12 21 (2) 1114:10;1241:11 21,207 (1) 1228:22 21st (1) 1259:5 22 (1)	27 (1) 1116:1 28 (6) 1149:20;1184:23; 1197:24;1198:6; 1218:6;1242:14 280 (2) 1210:10;1212:2 28th (3) 1103:1,3,6 29 (2) 1197:24;1198:6
0.000 (2) 1150:7,7 002 (1) 1241:17 008 (1) 1154:11 015 (1) 1154:10 02200.11 (1) 1226:18	1196:20 125 (3) 1229:11,13,18 1260 (1) 1239:5 13 (4) 1106:20;1128:16; 1191:2;1195:22 13,223,678 (1) 1240:7 130 (1) 1110:8	1139:22;1144:6; 1186:6;1196:17; 1210:4,6;1220:4; 1225:20;1234:8; 1241:17;1242:11,16; 1254:5 2,135,230 (1) 1227:22 2,151,048 (2) 1224:5,6 2,577,867 (1) 1205:23	1102:6 206 (2) 1240:18,23 20-year (3) 1249:17;1251:11,12 21 (2) 1114:10;1241:11 21,207 (1) 1228:22 21st (1) 1259:5 22 (1) 1191:8	27 (1) 1116:1 28 (6) 1149:20;1184:23; 1197:24;1198:6; 1218:6;1242:14 280 (2) 1210:10;1212:2 28th (3) 1103:1,3,6 29 (2) 1197:24;1198:6 29th (4)
0.000 (2) 1150:7,7 002 (1) 1241:17 008 (1) 1154:11 015 (1) 1154:10 02200.11 (1) 1226:18 04 (1)	1196:20 125 (3) 1229:11,13,18 1260 (1) 1239:5 13 (4) 1106:20;1128:16; 1191:2;1195:22 13,223,678 (1) 1240:7 130 (1) 1110:8 136 (9)	1139:22;1144:6; 1186:6;1196:17; 1210:4,6;1220:4; 1225:20;1234:8; 1241:17;1242:11,16; 1254:5 2,135,230 (1) 1227:22 2,151,048 (2) 1224:5,6 2,577,867 (1) 1205:23 2,683,157 (3)	1102:6 206 (2) 1240:18,23 20-year (3) 1249:17;1251:11,12 21 (2) 1114:10;1241:11 21,207 (1) 1228:22 21st (1) 1259:5 22 (1) 1191:8 22nd (1)	27 (1) 1116:1 28 (6) 1149:20;1184:23; 1197:24;1198:6; 1218:6;1242:14 280 (2) 1210:10;1212:2 28th (3) 1103:1,3,6 29 (2) 1197:24;1198:6
0.000 (2) 1150:7,7 002 (1) 1241:17 008 (1) 1154:11 015 (1) 1154:10 02200.11 (1) 1226:18	1196:20 125 (3) 1229:11,13,18 1260 (1) 1239:5 13 (4) 1106:20;1128:16; 1191:2;1195:22 13,223,678 (1) 1240:7 130 (1) 1110:8 136 (9) 1110:9;1161:24;	1139:22;1144:6; 1186:6;1196:17; 1210:4,6;1220:4; 1225:20;1234:8; 1241:17;1242:11,16; 1254:5 2,135,230 (1) 1227:22 2,151,048 (2) 1224:5,6 2,577,867 (1) 1205:23 2,683,157 (3) 1227:16,23;1228:12	1102:6 206 (2) 1240:18,23 20-year (3) 1249:17;1251:11,12 21 (2) 1114:10;1241:11 21,207 (1) 1228:22 21st (1) 1259:5 22 (1) 1191:8 22nd (1) 1259:6	27 (1) 1116:1 28 (6) 1149:20;1184:23; 1197:24;1198:6; 1218:6;1242:14 280 (2) 1210:10;1212:2 28th (3) 1103:1,3,6 29 (2) 1197:24;1198:6 29th (4) 1103:3,7;1259:8,8
0.000 (2) 1150:7,7 002 (1) 1241:17 008 (1) 1154:11 015 (1) 1154:10 02200.11 (1) 1226:18 04 (1) 1139:19 07 (1)	1196:20 125 (3) 1229:11,13,18 1260 (1) 1239:5 13 (4) 1106:20;1128:16; 1191:2;1195:22 13,223,678 (1) 1240:7 130 (1) 1110:8 136 (9) 1110:9;1161:24; 1162:1;1165:19;	1139:22;1144:6; 1186:6;1196:17; 1210:4,6;1220:4; 1225:20;1234:8; 1241:17;1242:11,16; 1254:5 2,135,230 (1) 1227:22 2,151,048 (2) 1224:5,6 2,577,867 (1) 1205:23 2,683,157 (3) 1227:16,23;1228:12 2,884,157 (4)	1102:6 206 (2) 1240:18,23 20-year (3) 1249:17;1251:11,12 21 (2) 1114:10;1241:11 21,207 (1) 1228:22 21st (1) 1259:5 22 (1) 1191:8 22nd (1) 1259:6 233,000 (1)	27 (1) 1116:1 28 (6) 1149:20;1184:23; 1197:24;1198:6; 1218:6;1242:14 280 (2) 1210:10;1212:2 28th (3) 1103:1,3,6 29 (2) 1197:24;1198:6 29th (4)
0.000 (2) 1150:7,7 002 (1) 1241:17 008 (1) 1154:11 015 (1) 1154:10 02200.11 (1) 1226:18 04 (1) 1139:19 07 (1) 1134:14	1196:20 125 (3) 1229:11,13,18 1260 (1) 1239:5 13 (4) 1106:20;1128:16; 1191:2;1195:22 13,223,678 (1) 1240:7 130 (1) 1110:8 136 (9) 1110:9;1161:24;	1139:22;1144:6; 1186:6;1196:17; 1210:4,6;1220:4; 1225:20;1234:8; 1241:17;1242:11,16; 1254:5 2,135,230 (1) 1227:22 2,151,048 (2) 1224:5,6 2,577,867 (1) 1205:23 2,683,157 (3) 1227:16,23;1228:12	1102:6 206 (2) 1240:18,23 20-year (3) 1249:17;1251:11,12 21 (2) 1114:10;1241:11 21,207 (1) 1228:22 21st (1) 1259:5 22 (1) 1191:8 22nd (1) 1259:6	27 (1) 1116:1 28 (6) 1149:20;1184:23; 1197:24;1198:6; 1218:6;1242:14 280 (2) 1210:10;1212:2 28th (3) 1103:1,3,6 29 (2) 1197:24;1198:6 29th (4) 1103:3,7;1259:8,8
0.000 (2) 1150:7,7 002 (1) 1241:17 008 (1) 1154:11 015 (1) 1154:10 02200.11 (1) 1226:18 04 (1) 1139:19 07 (1) 1134:14	1196:20 125 (3) 1229:11,13,18 1260 (1) 1239:5 13 (4) 1106:20;1128:16; 1191:2;1195:22 13,223,678 (1) 1240:7 130 (1) 1110:8 136 (9) 1110:9;1161:24; 1162:1;1165:19;	1139:22;1144:6; 1186:6;1196:17; 1210:4,6;1220:4; 1225:20;1234:8; 1241:17;1242:11,16; 1254:5 2,135,230 (1) 1227:22 2,151,048 (2) 1224:5,6 2,577,867 (1) 1205:23 2,683,157 (3) 1227:16,23;1228:12 2,884,157 (4)	1102:6 206 (2) 1240:18,23 20-year (3) 1249:17;1251:11,12 21 (2) 1114:10;1241:11 21,207 (1) 1228:22 21st (1) 1259:5 22 (1) 1191:8 22nd (1) 1259:6 233,000 (1)	27 (1) 1116:1 28 (6) 1149:20;1184:23; 1197:24;1198:6; 1218:6;1242:14 280 (2) 1210:10;1212:2 28th (3) 1103:1,3,6 29 (2) 1197:24;1198:6 29th (4) 1103:3,7;1259:8,8
0.000 (2) 1150:7,7 002 (1) 1241:17 008 (1) 1154:11 015 (1) 1154:10 02200.11 (1) 1226:18 04 (1) 1139:19 07 (1) 1134:14 08 (1)	1196:20 125 (3) 1229:11,13,18 1260 (1) 1239:5 13 (4) 1106:20;1128:16; 1191:2;1195:22 13,223,678 (1) 1240:7 130 (1) 1110:8 136 (9) 1110:9;1161:24; 1162:1;1165:19; 1171:8;1227:2; 1228:21;1229:13;	1139:22;1144:6; 1186:6;1196:17; 1210:4,6;1220:4; 1225:20;1234:8; 1241:17;1242:11,16; 1254:5 2,135,230 (1) 1227:22 2,151,048 (2) 1224:5,6 2,577,867 (1) 1205:23 2,683,157 (3) 1227:16,23;1228:12 2,884,157 (4) 1227:15;1228:9,11,	1102:6 206 (2) 1240:18,23 20-year (3) 1249:17;1251:11,12 21 (2) 1114:10;1241:11 21,207 (1) 1228:22 21st (1) 1259:5 22 (1) 1191:8 22nd (1) 1259:6 233,000 (1) 1240:16 233,432 (1)	27 (1) 1116:1 28 (6) 1149:20;1184:23; 1197:24;1198:6; 1218:6;1242:14 280 (2) 1210:10;1212:2 28th (3) 1103:1,3,6 29 (2) 1197:24;1198:6 29th (4) 1103:3,7;1259:8,8 3 3 (13)
0.000 (2) 1150:7,7 002 (1) 1241:17 008 (1) 1154:11 015 (1) 1154:10 02200.11 (1) 1226:18 04 (1) 1139:19 07 (1) 1134:14	1196:20 125 (3) 1229:11,13,18 1260 (1) 1239:5 13 (4) 1106:20;1128:16; 1191:2;1195:22 13,223,678 (1) 1240:7 130 (1) 1110:8 136 (9) 1110:9;1161:24; 1162:1;1165:19; 1171:8;1227:2; 1228:21;1229:13; 1236:8	1139:22;1144:6; 1186:6;1196:17; 1210:4,6;1220:4; 1225:20;1234:8; 1241:17;1242:11,16; 1254:5 2,135,230 (1) 1227:22 2,151,048 (2) 1224:5,6 2,577,867 (1) 1205:23 2,683,157 (3) 1227:16,23;1228:12 2,884,157 (4) 1227:15;1228:9,11, 19 2.8 (1)	1102:6 206 (2) 1240:18,23 20-year (3) 1249:17;1251:11,12 21 (2) 1114:10;1241:11 21,207 (1) 1228:22 21st (1) 1259:5 22 (1) 1191:8 22nd (1) 1259:6 233,000 (1) 1240:16 233,432 (1) 1240:19	27 (1) 1116:1 28 (6) 1149:20;1184:23; 1197:24;1198:6; 1218:6;1242:14 280 (2) 1210:10;1212:2 28th (3) 1103:1,3,6 29 (2) 1197:24;1198:6 29th (4) 1103:3,7;1259:8,8 3 3 (13) 1154:9;1190:11;
0.000 (2) 1150:7,7 002 (1) 1241:17 008 (1) 1154:11 015 (1) 1154:10 02200.11 (1) 1226:18 04 (1) 1139:19 07 (1) 1134:14 08 (1) 1139:20	1196:20 125 (3) 1229:11,13,18 1260 (1) 1239:5 13 (4) 1106:20;1128:16; 1191:2;1195:22 13,223,678 (1) 1240:7 130 (1) 1110:8 136 (9) 1110:9;1161:24; 1162:1;1165:19; 1171:8;1227:2; 1228:21;1229:13; 1236:8 14 (7)	1139:22;1144:6; 1186:6;1196:17; 1210:4,6;1220:4; 1225:20;1234:8; 1241:17;1242:11,16; 1254:5 2,135,230 (1) 1227:22 2,151,048 (2) 1224:5,6 2,577,867 (1) 1205:23 2,683,157 (3) 1227:16,23;1228:12 2,884,157 (4) 1227:15;1228:9,11, 19 2.8 (1) 1254:8	1102:6 206 (2) 1240:18,23 20-year (3) 1249:17;1251:11,12 21 (2) 1114:10;1241:11 21,207 (1) 1228:22 21st (1) 1259:5 22 (1) 1191:8 22nd (1) 1259:6 233,000 (1) 1240:16 233,432 (1) 1240:19 24 (1)	27 (1) 1116:1 28 (6) 1149:20;1184:23; 1197:24;1198:6; 1218:6;1242:14 280 (2) 1210:10;1212:2 28th (3) 1103:1,3,6 29 (2) 1197:24;1198:6 29th (4) 1103:3,7;1259:8,8 3 3 (13) 1154:9;1190:11; 1204:16;1205:9;
0.000 (2) 1150:7,7 002 (1) 1241:17 008 (1) 1154:11 015 (1) 1154:10 02200.11 (1) 1226:18 04 (1) 1139:19 07 (1) 1134:14 08 (1)	1196:20 125 (3) 1229:11,13,18 1260 (1) 1239:5 13 (4) 1106:20;1128:16; 1191:2;1195:22 13,223,678 (1) 1240:7 130 (1) 1110:8 136 (9) 1110:9;1161:24; 1162:1;1165:19; 1171:8;1227:2; 1228:21;1229:13; 1236:8 14 (7) 1158:9;1163:20,21;	1139:22;1144:6; 1186:6;1196:17; 1210:4,6;1220:4; 1225:20;1234:8; 1241:17;1242:11,16; 1254:5 2,135,230 (1) 1227:22 2,151,048 (2) 1224:5,6 2,577,867 (1) 1205:23 2,683,157 (3) 1227:16,23;1228:12 2,884,157 (4) 1227:15;1228:9,11, 19 2.8 (1) 1254:8 2.9 (1)	1102:6 206 (2) 1240:18,23 20-year (3) 1249:17;1251:11,12 21 (2) 1114:10;1241:11 21,207 (1) 1228:22 21st (1) 1259:5 22 (1) 1191:8 22nd (1) 1259:6 233,000 (1) 1240:16 233,432 (1) 1240:19 24 (1) 1225:17	27 (1) 1116:1 28 (6) 1149:20;1184:23; 1197:24;1198:6; 1218:6;1242:14 280 (2) 1210:10;1212:2 28th (3) 1103:1,3,6 29 (2) 1197:24;1198:6 29th (4) 1103:3,7;1259:8,8 3 3 (13) 1154:9;1190:11; 1204:16;1205:9; 1218:18;1237:1;
0.000 (2) 1150:7,7 002 (1) 1241:17 008 (1) 1154:11 015 (1) 1154:10 02200.11 (1) 1226:18 04 (1) 1139:19 07 (1) 1134:14 08 (1) 1139:20	1196:20 125 (3) 1229:11,13,18 1260 (1) 1239:5 13 (4) 1106:20;1128:16; 1191:2;1195:22 13,223,678 (1) 1240:7 130 (1) 1110:8 136 (9) 1110:9;1161:24; 1162:1;1165:19; 1171:8;1227:2; 1228:21;1229:13; 1236:8 14 (7) 1158:9;1163:20,21; 1169:4;1185:13;	1139:22;1144:6; 1186:6;1196:17; 1210:4,6;1220:4; 1225:20;1234:8; 1241:17;1242:11,16; 1254:5 2,135,230 (1) 1227:22 2,151,048 (2) 1224:5,6 2,577,867 (1) 1205:23 2,683,157 (3) 1227:16,23;1228:12 2,884,157 (4) 1227:15;1228:9,11, 19 2.8 (1) 1254:8 2.9 (1) 1254:15	1102:6 206 (2) 1240:18,23 20-year (3) 1249:17;1251:11,12 21 (2) 1114:10;1241:11 21,207 (1) 1228:22 21st (1) 1259:5 22 (1) 1191:8 22nd (1) 1259:6 233,000 (1) 1240:16 233,432 (1) 1240:19 24 (1) 1225:17 24,694 (2)	27 (1) 1116:1 28 (6) 1149:20;1184:23; 1197:24;1198:6; 1218:6;1242:14 280 (2) 1210:10;1212:2 28th (3) 1103:1,3,6 29 (2) 1197:24;1198:6 29th (4) 1103:3,7;1259:8,8 3 3 (13) 1154:9;1190:11; 1204:16;1205:9; 1218:18;1237:1; 1239:14,18;1240:23;
0.000 (2) 1150:7,7 002 (1) 1241:17 008 (1) 1154:11 015 (1) 1154:10 02200.11 (1) 1226:18 04 (1) 1139:19 07 (1) 1134:14 08 (1) 1139:20	1196:20 125 (3) 1229:11,13,18 1260 (1) 1239:5 13 (4) 1106:20;1128:16; 1191:2;1195:22 13,223,678 (1) 1240:7 130 (1) 1110:8 136 (9) 1110:9;1161:24; 1162:1;1165:19; 1171:8;1227:2; 1228:21;1229:13; 1236:8 14 (7) 1158:9;1163:20,21;	1139:22;1144:6; 1186:6;1196:17; 1210:4,6;1220:4; 1225:20;1234:8; 1241:17;1242:11,16; 1254:5 2,135,230 (1) 1227:22 2,151,048 (2) 1224:5,6 2,577,867 (1) 1205:23 2,683,157 (3) 1227:16,23;1228:12 2,884,157 (4) 1227:15;1228:9,11, 19 2.8 (1) 1254:8 2.9 (1)	1102:6 206 (2) 1240:18,23 20-year (3) 1249:17;1251:11,12 21 (2) 1114:10;1241:11 21,207 (1) 1228:22 21st (1) 1259:5 22 (1) 1191:8 22nd (1) 1259:6 233,000 (1) 1240:16 233,432 (1) 1240:19 24 (1) 1225:17	27 (1) 1116:1 28 (6) 1149:20;1184:23; 1197:24;1198:6; 1218:6;1242:14 280 (2) 1210:10;1212:2 28th (3) 1103:1,3,6 29 (2) 1197:24;1198:6 29th (4) 1103:3,7;1259:8,8 3 3 (13) 1154:9;1190:11; 1204:16;1205:9; 1218:18;1237:1;

			 January 14, 2015
3,000 (1)	1172:4;1183:22	7:45 (3)	
1253:7	500 (5)	1154:23;1155:1,3	
3,358,384 (1)	1140:20;1142:3,7,	70s (1)	
1225:18	10;1143:5	1170:12	
3.3.4 (1)	51,000 (2)	72 (1)	
1123:21	1119:22;1121:3	1253:17	
3.4 (1)	51,159 (1)	723 (1)	
1255:16	1121:3	1154:6	
3/100ths (1)	51,276 (1)	75 (3)	
1236:13	1122:9	1141:1;1145:8;	
30 (5)	53,000 (2)	1154:4	
1104:22;1106:14;	1213:13,15	78 (4)	
1175:11,12;1177:20	540 (1)	1110:2,3,4,5	
300 (1)	1138:15	- , , , , -	
1144:5	59 (3)	8	
	1239:19,23;1240:9	0	
30th (1)	1239.19,23,1240.9	0 (2)	
1114:13		8 (3)	
31 (2)	6	1218:18;1225:13;	
1106:24;1125:12		1255:1	
331 (1)	6 (3)	8.6 (1)	
1122:8	1161:12;1169:1;	1168:24	
34 (1)	1180:17	80 (10)	
1104:22	6,000 (1)	1107:19;1108:2,6,	
36 (5)	1118:16	15;1109:7,15,22;	
1110:11;1167:21,23;	6,266,172 (1)	1110:23,24;1164:10	
1168:18;1199:1	1213:4	80s (1)	
36,977 (2)	6,596,544 (1)	1170:12	
1236:22;1237:2	1205:21	82 (1)	
37 (1)	6.27 (1)	1107:6	
1199:1	1183:23	83 (1)	
38 (1)	6.3 (2)	1108:3	
1110:11	1151:12,14	85 (1)	
1110.11			
4	6.40 (1)	1108:1	
4	1214:5	850,000 (1)	
	6:30 (3)	1183:20	
4 (9)	1102:1;1259:6,9	86 (2)	
1190:3,7;1213:3;	60 (8)	1235:24;1236:15	
1217:16;1219:6,10;	1108:16;1110:22;	88 (3)	
1223:17;1224:1;	1136:21;1138:5,8,14,	1108:22;1109:1,16	
1232:8	24;1139:2	8th (2)	
4_12 (1)	600 (3)	1158:1;1247:21	
		1138.1,1247.21	
1154:9	1136:19;1138:5;	9	
40 (3)	1139:2	9	
1110:4,5,6	64 (1)		
42 (2)	1110:23	9 (6)	
1108:21;1109:3	65 (9)	1190:23;1213:7;	
44 (2)	1108:21;1109:4,6,	1216:16;1219:6,10,19	
1167:23;1168:18	23;1110:2,17,18;	9.3 (6)	
46 (1)	1111:2;1210:10	1140:16,20;1141:2,	
1253:2	66 (1)	4;1142:4,9	
1233.2			
_	1111:13	9:59 (1)	
5	67 (1)	1260:13	
	1111:7	90-degree (1)	
5 (8)		1147:23	
1136:5,13;1139:21,	7	91 (1)	
23;1172:24;1207:2;		1109:10	
1208:4,23	7 (6)	94 (1)	
5.4 (1)	1134:13,15;1149:1;	1109:18	
1183:21	1250:21;1254:8,14	98 (2)	
50 (4)	7,000 (3)	1109:16,17	
1142:21;1143:1;	1131:23;1132:2,2		
1175:11;1184:2	7:35 (2)		
50.8 (2)	1154:22;1155:3		
	•		