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A P P E A R A N C E S

EXCEL ENERGY, Briggs and Morgan, P.A., by
LISA AGRIMONTI and VALERIE HERRING, 2200 IDS Center,
80 South 8th Street, Minneapolis, Minnesota 55402.

WPPI ENERGY, by TIM NOELDNER, 1425
Corporate Center Drive, Sun Prairie, Wisconsin
53590.

DAIRYLAND POWER COOPERATIVE, Wheeler, Van
Sickle and Anderson, S.C., by JEFFREY L. LANDSMAN,
25 West Main Street, Suite 800, Madison, Wisconsin
53703.

AMERICAN TRANSMISSION COMPANY, Cullen
Weston Pines & Bach LLP, by LEE CULLEN, 122 West
Washington Avenue, Suite 900, Madison, Wisconsin
53703.

AMERICAN TRANSMISSION COMPANY, by PATRISHA
SMITH, W234 N2000 Ridgeview Pkwy Ct, Waukesha,
Wisconsin 53187.

1 A P P E A R A N C E S: (Continued)

2

3 CITIZENS UTILITY BOARD, by KIRA E. LOEHR and
4 DENNIS DUMS, 16 North Carroll Street, Suite 640,
5 Madison, Wisconsin 53703.

6

7 CLEAN WISCONSIN, by KATIE NEKOLA and ELIZABETH
8 WHEELER, 634 West Main Street, Suite 300, Madison,
9 Wisconsin 53703.

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11 PATRICIA A. CONWAY, 21715 Nordale Avenue,
12 Ontario, Wisconsin 54651.

13

14 MIDWEST INDEPENDENT TRANSMISSION SYSTEM
15 OPERATOR, INC., Day Law Offices, by WARREN DAY, 2010
16 Hawkinson Road, Oregon, Wisconsin 53575.

17

18 NOCAPX 2020, Legalectric, by CAROL A. OVERLAND,
19 1110 West Avenue, Red Wing, Minnesota 55066.

20

21 WISCONSIN DEPARTMENT OF TRANSPORTATION, by
22 JAMES S. THIEL and CARRIE COX, 4802 Sheboygan
23 Avenue, Room 115B, P.O. Box 7910, Madison, Wisconsin
24 53707-7910.

25

1 A P P E A R A N C E S: (Continuation)

2

3 WISCONSIN DEPARTMENT OF NATURAL RESOURCES, by
4 MEGAN CORRELL, 101 S. Webster, P.O. Box 7921,
5 Madison, Wisconsin 53707-7921.

6

7 COMMISSIONERS:

8 ERIC CALLISTO

9 PHIL MONTGOMERY

10 ELLEN NOWAK

11

12 OF THE COMMISSION STAFF

13 DIANE RAMTHUN, Office of General Counsel
14 JOHN LORENCE, Assistant General Counsel
15 William Fannucchi
16 James Lepinski
17 Scot Cullen

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19 (FOR INDEX SEE BACK OF TRANSCRIPT.)

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1 TRANSCRIPT OF PROCEEDINGS (9:30 a.m.)

2 EXAMINER NEWMARK: Off the record.

3 (Discussion off the record.)

4 EXAMINER NEWMARK: For the record, this is
5 05-CE-136, Application for the -- application for
6 the CapX 2020 transmission line project.

7 My name is Michael Newmark, Administrative
8 Law Judge for the PSC, and this is our first day of
9 the party session. So -- I forgot to mention.
10 Okay. We have everyone who has appeared in writing;
11 is that right? So just in a second, we'll go off
12 and just do some introductions, but -- let's do that
13 now, I guess, get that out of the way.

14 So off the record.

15 (Discussion off the record.)

16 EXAMINER NEWMARK: Back on the record.
17 Some of the outstanding things to deal with is a
18 filing we have from NoCapX CETF; is that right?

19 MS. OVERLAND: Right.

20 EXAMINER NEWMARK: And it's basically
21 their exhibit, which is a listing of items that we
22 described at the last meeting. And I guess one
23 thing that stood out and Mr. Cullen had pointed out
24 to me before the hearing was Exhibit --

25 MR. CULLEN: 13.

1 EXAMINER NEWMARK: 13. Right. We want to
2 make sure that's only the WIRES report, and I'm not
3 sure if that link -- where that link that you have
4 there goes to but -- go ahead, yeah.

5 MS. OVERLAND: Right. And the link is to
6 the entire ERF docket, and I will have to -- well,
7 the link that I sent this morning and the link to
8 this is probably the three, so I would probably have
9 to change that.

10 EXAMINER NEWMARK: Okay. And just in a
11 more broader sense, I think what I probably should
12 have done is, because you have actually ERFed most
13 of these documents, what we can do is treat -- treat
14 your Exhibit 1 like we've done with, say, like the
15 application, EIS, which is just a listing of the ERF
16 numbers. So I apologize for that because it looks
17 like you put a lot more into this.

18 But so the only difference would be item
19 13, you'd want to -- can we ERF just the WIRES
20 report for that?

21 MS. OVERLAND: Right. We can do that.

22 EXAMINER NEWMARK: And items 8 and 9, I
23 don't know if we can ERF those or not.

24 MS. OVERLAND: No.

25 EXAMINER NEWMARK: Okay. If you could

1 just put links -- in the list, if you could just put
2 the links in for those items. So the rest can just
3 be ERF numbers, you already have the documents. Is
4 that right?

5 MR. CULLEN: Your Honor, and I see that
6 item 17, and I think the title should say item
7 numbers rather than exhibit numbers, doesn't have a
8 link. There is a public link to the entire
9 report --

10 EXAMINER NEWMARK: Okay.

11 MR. CULLEN: -- which we could provide
12 Ms. Overland. It was in one of our data responses.

13 MS. OVERLAND: Right. And that was used
14 in the list that I sent this morning.

15 EXAMINER NEWMARK: It's on ERF, right?

16 MS. OVERLAND: Right.

17 EXAMINER NEWMARK: So just use the ERF
18 number for that one.

19 MS. OVERLAND: Right.

20 EXAMINER NEWMARK: Item 18 --

21 MS. OVERLAND: Right, it's not there.

22 It's not been ERFed. Can I do that tonight?

23 EXAMINER NEWMARK: Oh, yeah. That's not a
24 problem. I just want to make sure we get that. But
25 in terms of cross today, is there anything that we

1 don't have -- can parties get to all these documents
2 today? Is that -- anyone who can't get to those
3 documents today?

4 MR. DAY: Your Honor, I have a question
5 about Exhibits 8 and 9 of NoCapX.

6 EXAMINER NEWMARK: The item numbers.

7 MR. DAY: Yeah. Those are in-depth
8 reports, tremendously long; and if you include all
9 the attachments and appendices, are all those to be
10 included?

11 EXAMINER NEWMARK: Yeah. I think that's
12 what we decided on Friday. And Ms. Overland will
13 just include the links on her exhibit document, so
14 it will be all brought in for availability for
15 citation.

16 Okay. So any corrections to the witness
17 and exhibit list that we didn't go over on Friday?

18 (No response.)

19 EXAMINER NEWMARK: And there's just one
20 other thing that I have. Just let me know if this
21 helps or not, but there's a couple of tables on
22 staff Sirohi -- no, I'm sorry, Rineer has one, it's
23 on page 2 of his rebuttal. It's a table that deals
24 with the routes. And I was just curious, is that
25 basically the naming, the phraseology we can use for

1 all these routes or is there a better example of
2 what we can kind of -- how we summarize the routes?
3 That looked like a good table, but are there any
4 other ideas about that? So if we could -- we can
5 refer to the route alternatives as they are listed
6 here, does that make sense, just for convention
7 sake?

8 And then -- I guess that's -- that's good.
9 So, all right. Is there anything else?

10 MS. AGRIMONTI: We had talked about
11 witness order on Friday, and part of that was
12 dependent on the scope of our sur-surrebuttal. I
13 will represent that there's nothing in the
14 sur-surrebuttal that relates either to Mr. Burmester
15 or to Mr. Hahn, so I believe that we can proceed
16 with the order of the witnesses who had a date
17 certain.

18 EXAMINER NEWMARK: Okay. So we were going
19 to take Mr. Hahn first. All right. I think we're
20 ready to go. So let's call Mr. Hahn.

21 RICHARD A. HAHN, CUB WITNESS, DULY SWORN

22 EXAMINER NEWMARK: Have a seat.

23 DIRECT EXAMINATION

24 BY MS. LOEHR:

25 Q Good morning. Mr. Hahn, did you prepare direct and

1 surrebuttal testimony and four exhibits in this
2 proceeding?

3 A Yes.

4 Q Is the information contained therein true and correct
5 to the best of your knowledge?

6 A Yes, it is.

7 Q I just wanted to talk to you a little bit about
8 Ms. King's second supplemental direct testimony in
9 this proceeding. Have you reviewed that testimony?

10 A Yes. This is the testimony that suggests some
11 additional 161 and 69 kV facilities?

12 Q Yes.

13 A Yes, I have reviewed that.

14 Q It was filed on February 29th. You mention that
15 testimony discusses a 161/69 kV transformer and a 69
16 kV transmission line. According Ms. King, are those
17 items necessary to address overloading of the Briggs
18 Road Mayfair line at load levels approaching 750
19 megawatts?

20 A That's my understanding of the testimony, yes.

21 Q In your testimony, did you analyze the Applicants'
22 load forecasts?

23 A Yes.

24 Q Do you recall the Applicants' load forecast's load in
25 the La Crosse area was expected to reach 750

1 megawatts?

2 A Under the Applicants' I believe it was January 12 --
3 January 2012 load forecast, I don't think the load in
4 the La Crosse area reaches 750 megawatts 'til
5 somewhere in the neighborhood of year 2050.

6 Q 2050?

7 A 2050.

8 Q Do you know what the load forecast for the La Crosse
9 area was in 2050 under the load forecast you
10 prepared?

11 A Approximately 650 megawatts. 652 might be the exact
12 number, but --

13 Q Do you happen to know under your load forecasts what
14 year the La Crosse area would reach a 750 megawatt
15 load level?

16 A I actually didn't do that calculation, but it's well
17 after the year 2050.

18 Q Ms. King states that the 69 kV connection should be
19 built at the same time as their proposed project. Do
20 you have an opinion on that?

21 A Well, given that the -- these incremental 169 -- I'm
22 sorry, 161 and 69 kV facilities are needed as the
23 load level in the La Crosse area approaches 750
24 megawatts, it would seem that they would not be
25 needed at this point, but perhaps some subsequent

1 point well down the road.

2 MS. LOEHR: Thank you. Mr. Hahn is
3 available for cross.

4 EXAMINER NEWMARK: Okay. Cross.

5 CROSS-EXAMINATION

6 BY MS. AGRIMONTI:

7 Q Thank you. Good morning, Mr. Hahn.

8 A Good morning.

9 Q My name is Lisa Agrimonti. I represent the
10 applicants, and I have a series of questions for you
11 this morning. I'll ask you, do you have copies of
12 your testimony before you?

13 A I do.

14 Q Thank you. This is the first time you've appeared
15 before a proceeding in Wisconsin on a CPCN matter; is
16 that right?

17 A I believe that's correct. I've appeared before this
18 Commission on authorization -- certificate of
19 authority to build environmental upgrade equipment;
20 but my recollection was that that was not for CPCN.
21 So I think this would be the first time.

22 Q In your Exhibit 1 to your direct testimony, you
23 provide a resume and list of projects. Could you
24 please turn to page 1 of that exhibit? The second
25 bullet references a study --

1 A Can I have a moment?

2 Q You sure can.

3 A Well, as luck would have it, I didn't bring my own
4 resume, so maybe I could borrow. You can start
5 asking, maybe I'll remember, but --

6 Q You may. I'll let Ms. Loehr bring a copy to you.

7 A Sorry about that. Page 1 you said?

8 Q Yes. I'm interested in the second bullet under
9 selected experience.

10 A This is the Lewiston-Auburn area study?

11 Q It is.

12 A The second bullet?

13 Q That is correct. You're where I am. I am interested
14 in the scope of your involvement in that study.

15 A The Central Main Power Company was seeking to build a
16 fairly large transmission upgrade basically across
17 the entire State of Maine. It was referred to as the
18 Maine Power Reliability Program or MPRP; and this
19 project involved several hundred miles of new
20 transmission and upgrades to certain local areas,
21 such as the Lewiston-Auburn area. And in the
22 original application, the Commission, the Maine
23 Public Utilities Commission, denied the facilities
24 for upgrading the Lewiston-Auburn area and directed
25 Central Maine Power to refile. We were retained to

1 do an alternative of a study of non-transmission
2 alternatives to the company's proposed transmission
3 solution, and we were retained to do that for the
4 entire MPRP project as well, but that predated this
5 particular bullet item.

6 Q Were you the lead author of that report?

7 A I co-authored that report with Mr. Peaco, P-E-A-C-O,
8 who's the president of La Capra Associates.

9 Q And that was published in June of '08; is that
10 correct?

11 A I believe that's the date.

12 Q On page 1, line 16 of your direct testimony, you
13 reference experience in forecast of wholesale market
14 prices. And my question to you, has it been your
15 experience that increased transmission capacity in an
16 area has the effect of reducing wholesale energy
17 costs?

18 A The addition of new transmission facilities can
19 reduce locational marginal prices in various parts of
20 the system, obviously depending on the configuration.
21 But if the system is congested and you build
22 transmission across that congested interface, can you
23 reduce prices, yes.

24 Q You also mention on page 2, 19, you talk about the
25 Maine Power Reliability Program. You represented

1 Central Maine Power Company for a bulk power system
2 upgrade. What was your opinion in that
3 representation with respect to the need for those
4 facilities?

5 A Well, La Capra was not retained to offer an opinion
6 on the need. As I said previously, La Capra
7 Associates in general and myself in particular were
8 retained to perform an analysis of non-transmission
9 alternatives. The Maine Public Utilities Commission
10 has a requirement that companies filing for the
11 equivalent -- actually, in their case, it is -- they
12 do call it a CPCN. For new transmission facilities,
13 they need to prove to the Commission that's what's
14 referred to as non-transmission alternatives, local
15 generation, demand response, other things that might
16 be considered solutions but not transmission
17 facilities. So our role was to come up and analyze,
18 to develop and then analyze non-transmission
19 alternatives to the proposed transmission solution.

20 So we -- we were not asked to analyze the
21 need. That was done by another company called RLC
22 Engineering.

23 Q Let's turn to page 4, lines 10 and 11 of your direct
24 testimony. You state that the proposed 345 project
25 would resolve reliability concerns in the La Crosse

1 area. When you state that, what are the reliability
2 concerns you are addressing?

3 A Well, the company did -- actually, to be more
4 precise, the applicants in their filed case performed
5 what I would refer to as a needs assessment. And
6 they looked at the loads and they looked at not only
7 what the actual or the projected loads would be in
8 this La Crosse area, but they also developed what was
9 referred to as a critical load, which is the amount
10 of load that the existing system or an upgraded
11 system can reliably support. And it -- the --
12 without consideration of the French Island units and
13 the existing system configuration, I think the
14 critical load level was 430 megawatts according to
15 the applicants; and even under my adjusted load
16 forecast, the 2011 --

17 Q Mr. Hahn, I'm sorry. You've answered narratively to
18 a few of my questions, and I'm trying to be narrow
19 and I'll try to do a better job to ask a specific
20 question. But you reference here reliability
21 concerns, and I'm just asking you for your definition
22 of a reliability concern in your testimony.

23 A Well, I'm referring to the reliability concerns
24 identified by the applicants. That's why I was
25 trying to explain what it is. I'm sorry if I was

1 long-winded about that, but --

2 Q So you agree that there's a 430 megawatt reliability
3 concern?

4 A Based on my review of the company's load flow
5 studies, I have accepted that, yes.

6 Q Thank you. Your testimony, however, is that the 345
7 project, although it would address this concern, is
8 not the right alternative; is that correct?

9 A I believe -- well, my testimony says that it's more
10 of a solution than you need to address reliability
11 and that there is a lower voltage solution that works
12 in my opinion.

13 Q Which lower voltage solution are you recommending?

14 A Well, I think the hybrid solution that I recommended
15 in my testimony, which is bring the 345 kV solution
16 to Alma and then go 161 kV down to a Briggs Road
17 station, is one that I believe will resolve the
18 reliability issues and at a lower cost. There's
19 another alternative -- or there's lots of other
20 alternatives; but the company in somebody's
21 supplemental testimony, I believe it was Ms. King,
22 analyzed three additional 345 kV/161 kV solutions
23 that were similar to the one I recommended, and they
24 concluded that at least one of them would work to 600
25 megawatts. So that's an alternative that I think

1 works.

2 And there was one alternative that I asked
3 the company to analyze, which was similar to my -- my
4 hybrid alternative, instead of bringing a 161 kV line
5 from north La Crosse up to a new 345 161 kV station
6 at Alma, what would happen if that was tied into the
7 existing 161 kV bus at Alma. Unfortunately, there
8 wasn't enough information to understand or for me to
9 determine whether that alternative would work, but
10 that's another possibility.

11 So even if you ignore that last one, the
12 others that I mentioned I believe would be reasonable
13 solutions to this reliability need.

14 Q Okay. So let's start with the Alma to 161. You say
15 that that would be a better solution. What benefits
16 do you attribute to that alternative?

17 EXAMINER NEWMARK: Just a second.
18 Ms. Agrimonti, are we talking about additional
19 testimony to what's already been prefiled, or do you
20 just want him to review what he's already said?

21 MS. AGRIMONTI: I am trying to understand
22 how he concludes that this 161 is a better
23 alternative, which is a recommendation made in his
24 testimony; so I'm trying to cross-examine him on his
25 cost/benefit analysis, which he does not detail in

1 his testimony, which I believe is missing.

2 EXAMINER NEWMARK: Okay. Great. Thanks.
3 So you want him to limit it to cost/benefit
4 analysis?

5 MS. AGRIMONTI: Yes.

6 EXAMINER NEWMARK: Okay.

7 MS. AGRIMONTI: I'm asking about this
8 alternative of his, what benefits did he attribute
9 to it to reach his conclusion that it is a better
10 solution.

11 THE WITNESS: Okay. Could we have that
12 question read back, please.

13 MS. AGRIMONTI: I can restate it for you,
14 Mr. Hahn.

15 BY MS. AGRIMONTI:

16 Q When you were evaluating alternatives, you do a
17 cost/benefit analysis; is that right?

18 A Normally, yes.

19 Q Okay. For this Alma to La Crosse solution that you
20 are -- have identified as a possible alternative to
21 the project, what benefits did you attribute to that
22 alternative?

23 A Well, it solved the reliability problem.

24 Q And when you say it solves the reliability problem,
25 that's the problem in La Crosse?

1 A In the La Crosse load pocket, yes.

2 Q Did you look at any other benefits that that
3 alternative might provide?

4 A I did not, but --

5 Q Thank you. With respect to cost, what costs did you
6 attribute to that alternative?

7 A I believe the -- I believe that cost would be
8 comparable, but slightly less than the -- I'm sorry,
9 slightly more than the alternative than the company
10 studied, which was going from -- a 161 kV line from
11 north Rochester all the way to La Crosse.

12 Q Did you consider losses in your analysis of costs for
13 your 161 recommendation?

14 A I did not, but the company provided an estimate of
15 those.

16 Q Did you consider any regional or local reliability
17 concerns in Minnesota in your analysis of cost and
18 benefits?

19 A Well, my alternative is basically the same facilities
20 in Minnesota that have been approved; so I believe
21 they would address the reliability problems in
22 Minnesota. I didn't change them, so I saw no reason
23 to believe that they wouldn't.

24 Q Let's talk about French Island. Have you had an
25 opportunity to review the testimony, surrebuttal

1 testimony, Mr. Sirohi?

2 A That's a staff member?

3 Q Yes.

4 A Yes.

5 Q And this rebuttal testimony of Mr. Webb?

6 A On behalf of MISO?

7 Q On behalf of MISO.

8 A Yes.

9 Q Is it still your opinion that running French Island
10 Unit No. 4 is a reasonable alternative to the
11 project?

12 A I would not agree with that wording. My testimony
13 was that the French Island, I believe is the No. 4
14 unit that's still operable, is, at least in the last
15 two years of data we received, ran at the time of the
16 peak. So in the company's analysis -- or in the
17 Applicants' analysis, they had assumed that that unit
18 was unavailable. And I think that that's a decision
19 that results in a greater reliability need. So, I
20 didn't look at it as an alternative to the project.
21 I looked at that time as an assumption that led to
22 the company's needs assessment that I thought maybe
23 should be re-looked at.

24 Q But earlier this morning you agreed that we have a
25 reliability need at 430 megawatts in La Crosse,

1 right?

2 A But that's without counting for French Island 4.
3 Even under the company's analysis, it goes to 500 if
4 you count French Island 4.

5 Q Okay. So let me understand. Are you suggesting that
6 French Island should be assumed as an operating
7 facility under all peak load conditions and therefore
8 you believe that critical load level is 500, or do
9 you agree that it's 430?

10 A I believe that it could be either depending on the
11 status of the French Island unit. In my analysis, I
12 looked at it both ways.

13 Q Do you agree that generation is less reliable than
14 transmission?

15 A You'll have to define "less reliable" for me.

16 Q Available.

17 A Generating units, like all pieces of equipment, break
18 down once in a while; and that's measured by
19 something called an equivalent forced outage rate.
20 Transmission outages do occur; but since there's no
21 moving parts, they occur less. So if you strictly
22 looked at availability, a transmission asset has a
23 higher availability in most cases than a generation
24 asset.

25 Q With respect to looking at whether you should assume

1 French Island in operation or not, would that also
2 require a cost/benefit analysis?

3 A I think it depends, and it's somewhat of a
4 complicated answer. I'll try and answer it as best I
5 can.

6 If that unit is online at the time of peak
7 and the only thing that needs to be changed is the
8 assumption that it's either online or offline, then,
9 no, I don't think you need a cost/benefit analysis
10 for that. If you are going to consider this as a --
11 an asset to be dispatched -- assume it's not on,
12 which is not the case, but assume that's the case
13 and you were going to look at it as a dispatchable
14 addant of a system contingency, then you might want
15 to look at the benefit/cost analysis under that
16 circumstance, but that's not what I did.

17 Q Let me go back to your assumption. You said when you
18 looked at the French Island operation, it was
19 generally on at peak; did I represent that correctly?

20 A That's based on the data the company sent me, yes.

21 Q Can you sit here and testify that French Island was
22 always on when load was above 430?

23 A No, I don't have that data in front of me.

24 Q You mentioned forced outage rate, the French Island
25 number 4 has a 70 megawatt rating. Would you agree

1 that if you were counting on that generation, that
2 you would only be able to count on some number less
3 than 70 megawatts to give a count for that forced
4 outage rate?

5 A No, not necessarily. I mean, the company assumed it
6 was 70.

7 Q You understand that French Island isn't a black-start
8 unit, right?

9 A I believe I read that somewhere in testimony in this
10 case.

11 Q So if French Island were not on at the time of peak
12 and it needed to be turned on, there would be some
13 delay of about 30 minutes; is that right?

14 A That's possible. I don't recall that number, but a
15 30-minute start time for a combustion turbine unit
16 that's not an arrow derivative is not unusual.

17 Q And there's a chance it wouldn't go on when you
18 called it?

19 A I guess that's a possibility.

20 Q Are you familiar with the Cross-State Air Pollution
21 Rule, the CSAPR regulations?

22 A Yes.

23 Q Did you give any consideration to the CSAPR
24 regulations on how they might impact the operation of
25 generators like French Island?

1 A Specifically, no.

2 Q Would you agree that if French Island were assumed to
3 be on, that over time it would need to be assumed to
4 be on for a greater number of hours per year as load
5 grows?

6 A I'm not sure I understand that question.

7 Q You agree that load is expected to grow in the
8 future, right? You give a 1 percent estimate?

9 A That's my best estimate, yes.

10 Q And if you believe that French Island should be on
11 when load is above 430, more load -- more hours of
12 the day and of the year will be above 430 as load in
13 the area grows?

14 A Well, I don't think I said the unit should be on
15 above 430. I think you said that. What my testimony
16 is, is that it's normally on at the time of the peak,
17 which is the conditions under which the company is
18 testing the unit. So as -- as load grows and no
19 other changes are made, it's possible that that unit
20 could be dispatched more than it was last year.
21 That's a possibility.

22 Q Well, I guess I'm really struggling with what your
23 assumption is about French Island being available
24 above 430 if under modeling we assume it's on so that
25 we have a higher critical load level.

1 To obviate the reliability need, I have to
2 have French Island on above 430; wouldn't you agree?

3 A If you wish to extend the critical load level, as the
4 company has done from 430 to 500, that unit would
5 have to be on.

6 Q Okay. So it has to be on; and if load grows in the
7 area over time, wouldn't you agree that there will be
8 more hours where the peak load or the load which --
9 let me back up.

10 There are a certain number of hours that
11 you assumed in your analysis that French Island
12 would have to run. I think you had about 60 hours
13 in your testimony; is that right?

14 A I think that's about right.

15 Q Would you expect that number of hours to increase as
16 load in the area increases?

17 A Yeah, I think that's true.

18 Q Okay. And would you agree that the CSAPR regulations
19 may have some impact on the ability of that unit to
20 operate at higher levels than 60?

21 A I think they could, but I don't know that they would.
22 I mean, a unit doesn't run very much to begin with,
23 so -- I'll grant you that's a possibility. I don't
24 know whether it will occur or not.

25 Q CSAPR provides certain allowances to utilities and

1 they can't exceed those allowances without penalties
2 or purchasing additional ones; isn't that right?

3 A Well, true, but I don't know whether this particular
4 unit would or would not be above its allocated share
5 of the allowances now. So I don't know. I mean,
6 you're asking me if it could happen, I'm saying yes.
7 I just don't know if it would.

8 Q Do you know if under the current Clean Air Interstate
9 Rule there would be any potential limitations on
10 operation of French Island if the number of hours it
11 were operated were increased?

12 A Again, that's a possibility; but I don't know whether
13 it will occur or not.

14 Q Okay. Did you consider additional air emissions that
15 would occur if French Island were operated more for
16 system support?

17 A You mean measure the increased emissions? No.

18 Q Would you agree that if in an N minus 1 condition
19 with load above 430, the failure of French Island
20 Unit No. 4 would result in load shedding?

21 A Not necessarily.

22 Q What would be the alternative fix?

23 A Well, I think your assumption assumes two other
24 contingencies. Implicit in that question is that
25 there are two other contingencies that have to occur.

1 One is that you've either lost generation at
2 general -- I believe the other station is Madgett.
3 And the outage of one or two other 161 kV lines. So
4 if those didn't occur, then I don't think you'd need
5 anything.

6 Q Mr. Hahn, doesn't NERC require you to take action in
7 advance of the second contingency?

8 A NERC asks you to design a system that can withstand
9 two contingencies; and there's -- in most cases they
10 permit an adjustment within 30 minutes between those
11 two contingencies. So they're asking you to design a
12 system that can withstand that; but my only point is
13 that between the first and second contingencies, NERC
14 allows you to do certain things.

15 Q Okay. So, if my solution here up to 500 megawatts is
16 that French Island operates and I lose Genoa and my
17 load is above 430, what other options do I have other
18 than load shedding to bring --

19 A Well, again, the question assumes that there are no
20 facilities built, and I'm not recommending that. My
21 point is, is that with or without French Island 4, a
22 161 kV solution, of which there may be several
23 variations, but a 161 kV solution will add enough
24 relief to the existing system to increase that
25 critical load to something to the neighborhood of 550

1 or 600, even if French Island 4 disappears off the
2 face of the earth.

3 Q So let me be clear. You are not suggesting that only
4 French Island operate. You do believe that there's
5 at least a 161 facility that needs to be built?

6 A I have said that in my testimony. I'm sorry if I
7 wasn't clear about that. I've acknowledged that
8 there is a need. I believe that need is less severe
9 than the company has identified, but I'm not
10 proposing a no-build option.

11 Q Let's move on to coincident/non-coincident load. You
12 provided some analysis in your testimony where you
13 estimated the peak load in 2011; is that right?

14 A Yes.

15 Q And that was an estimate that was not an actual
16 measurement of load flows on the 161 line serving
17 La Crosse; is that correct?

18 A Well, I'm not sure about the reference to load flows.
19 They were bus loads. It may have been used in a load
20 flow, but they're not power flows themselves, they're
21 the loads of the busses.

22 Q But you didn't have actual flow information for a
23 number of NSP substations, right?

24 A Well, that's the part that confuses me. Flows occur
25 over lines and loads are at substations.

1 Q Well, let me ask it a different way. The applicants
2 have put in testimony of an actual peak load for 2011
3 that differs from what you estimated in your
4 testimony. And I guess I'm going to ask you to tell
5 me if you can explain why those are different or
6 whether they should be the same. And I understood it
7 as yours being an estimate and the Applicants' being
8 the actual flows on the lines. And I understand that
9 your estimate is coincident substation loads. I'm
10 just trying to reconcile those two numbers, and maybe
11 I don't have the best question before you; but I just
12 didn't know how to reconcile the 442, and I believe
13 applicants have 450 for an August 2011 load flow. It
14 was an actual peak number.

15 A Well, it's my understanding that -- and maybe I'll
16 not use the words load flow --

17 Q Okay.

18 A -- because that means something different to me than
19 maybe it does to you in your question. But it's my
20 understanding that the applicants presented actual
21 data that showed measured bus loads in the area that
22 total something in the neighborhood of 451 megawatts
23 at the time of the 2010 peak and 465 megawatts at the
24 time of the 2011 peak. And those numbers are shown
25 on Exhibit Hahn-2.

1 So we looked at those, and it appeared
2 that they were based on the coincident peak at each
3 of those buses regardless of the time of day that it
4 occurred. And when we asked for hourly data for the
5 same measured loads but not just at the highest load
6 in the season, we noticed that there was some -- it's
7 referred to as diversity between loads. In other
8 words, not all the loads hit their peak at exactly
9 the same hour. But the load on the transmission
10 system is determined by what's called the coincident
11 peak. And when we tried to adjust for that, we wound
12 up that the 465 megawatts in 2011 was reduced to 442.
13 I hope that answers your question.

14 Q So let me -- and I think I've asked this, but let's
15 just be consistent, that your 442 is a calculation
16 based on your review of substation load data?

17 A That's correct, yes.

18 Q Okay.

19 A But that load data was actual load data provided by
20 the company. I'm sorry, the applicants.

21 Q Let's go to page 13. On lines 22 through 24, you
22 provide that 1 percent is a reasonable level of
23 growth to assume over the entire study period. What
24 is the study period you're referring to?

25 A Well, the applicant had projected the -- the loads

1 and the critical load-carrying capability with
2 different solutions up to 2030. We extended that to
3 look out as far as 2050, which I think is a very long
4 time, but most transmission projects that I'm
5 familiar with look out only 10 to 20 years.

6 Q Okay. Do you think it's reasonable to assume a flat
7 1 percent rate of growth over that entire period?

8 A Absolutely, yes.

9 Q In your experience, have you seen growth rates spike
10 and decline over a period like that?

11 A Oh, sure. I mean, the actual loads from year to year
12 will fluctuate from a perfect straight line due to
13 weather and things like that, economic activity. But
14 what we're projecting here, as well as what the
15 company was projecting, was a long-term trend, so
16 years. There may be years when it's above and below;
17 but if you're projecting out to the year 2030 or 2040
18 or 2050, it's pretty hard to capture every one of
19 these little cycles that you referenced. So
20 typically utilities look at sort of a long-term trend
21 growth, and that's what the applicants did and that's
22 what I did.

23 Q This area has seen growth far above 1 percent in the
24 past, hasn't it? Double that? Triple that? Using 1
25 percent, 2 or 3 percent.

1 A Well, the historic growth rate from 2001 to 2011 was
2 1 percent; so there could have been some above and
3 some below, but that's also a long-term trend as
4 well.

5 Q But if your average is 1 percent, you would have to
6 stay pretty close to that for the next 35 years for
7 that growth rate to be accurate, right?

8 A I mean, in theory, no. If you had a 2 percent growth
9 in one year and a 1 percent decline the next year,
10 that's 1 percent growth over time. Again, I don't --
11 I don't mean to be -- I don't wish to sound flip
12 because forecasting, you know, is difficult to catch
13 these cycles you're referencing, which is why for
14 transmission planning purposes, a long-term trend
15 number is generally used.

16 Q Let's move on to page 18 and 19 of your direct. On
17 lines 10 through 12, you conclude that the proposed
18 project is excessive relative to local reliability
19 needs it is intended to address. I believe what you
20 meant to say there was that the cost of the proposed
21 project is excessive; is that right? Or are you just
22 saying that the size of the project is excessive?

23 A Are you referring to page 18?

24 Q I'm referring to page 19, lines 10 through 12.

25 A Those lines refer to the amount of reliability

1 relief, not costs.

2 Q Okay.

3 A And what I mean by that is, you know, I don't believe
4 there's a need to extend the critical load all the
5 way to 750 megawatts, given that that will occur a
6 long time into the future.

7 Q Okay. When you look at the cost/benefits in your
8 testimony, are you looking at only costs and benefits
9 to Wisconsin ratepayers?

10 A Well, I -- we looked at sort of the total project
11 costs, and I tried to allocate that or estimate what
12 Wisconsin's share of that would be, yes.

13 Q Okay. Did you look at the cost or benefits to other
14 ratepayers in Wisconsin or MISO?

15 A Well, I did look for Wisconsin. I did not look for
16 other ratepayers in MISO that were not in Wisconsin.

17 Q When you --

18 A Because it's my -- my belief that the subject of this
19 proceeding was the benefits of Wisconsin.

20 Q Okay. So you did not evaluate the entire Hampton to
21 La Crosse project in terms of its overall benefits or
22 overall costs to let's use society for lack of a
23 better general term?

24 A Well, I think in -- the total project costs are going
25 to be borne by somebody. So -- and MISO has a

1 formula for that, depending on the type of project
2 that it is. In my analysis, I did focus on the
3 Wisconsin share because that's what I believe this
4 hearing was about.

5 Q Okay. And did you look at benefits beyond the local
6 reliability in La Crosse?

7 A Well, I accepted the company's premise that there
8 would be benefits due to increase transfer capability
9 and reduced losses. Those would certainly be
10 MISO-wide, if you will. In fact, I think the company
11 answered data requests says that those savings
12 applied to a much broader area, even outside of MISO,
13 but -- so I mean, did I consider them? Yes. Did I
14 come up with my own independent estimate? No.

15 Q Okay. But your testimony is that the costs of the
16 project outweigh the benefits of the project in
17 Wisconsin; is that right?

18 A Yes.

19 Q Okay. Please identify for me what benefits you
20 weighed against the costs in that analysis.

21 A Well, my primary benefit was the solution to a local
22 reliability need that's in Wisconsin. I think that's
23 first and foremost what I looked at. And then,
24 again, to the extent that there were other aspects of
25 this project, reduced -- I'm sorry, increased

1 transfer capability and reduced losses, those were
2 additional benefits, but those would not be shared or
3 experienced just by Wisconsin. They would be shared
4 by a much broader area.

5 Q Okay. And there would be some reliability benefits
6 in Rochester as well, right, for the project as a
7 whole?

8 A Well, yes, but that's why I looked at this hybrid
9 alternative which would allow the facilities in
10 Minnesota to be built and meet those reliability
11 needs.

12 Q Mr. Hahn, what I'm struggling with and I'm trying to
13 elicit testimony about is, the columns that you put
14 together to say the project costs X dollars and the
15 benefits are valued at some amount so that you could
16 conclude that the costs outweighed the benefits,
17 because that's your testimony.

18 So what did you weigh against what to reach
19 that conclusion? And there are some things that are
20 in Wisconsin, some things that are out. So I'll ask
21 it again.

22 What costs did you look at -- and I believe
23 it's project costs, and you told me you've done an
24 allocation for Wisconsin. And I'm asking what
25 benefits did you weigh those costs against to reach

1 your conclusion that there weren't enough benefits?

2 A Well, primarily the reliability benefits because if
3 you have a 161 or a lower voltage alternative that
4 solves the reliability problem, but it also results
5 in a significantly lower cost to Wisconsin, that's
6 what I looked at.

7 Q Okay. So you did not give any particular weight to
8 the increased transfer capability that would be a
9 benefit to the -- Wisconsin and Minnesota; is that
10 right?

11 A Well, yes. Because the alternative that I suggested
12 would allow those -- those benefits -- those benefits
13 are largely due to a 345 kV link from an MVP project,
14 multi-value project in the west, to a multi-value
15 project in the east. You could build a 345 kV line
16 even if had you no local reliability problems in
17 La Crosse and you could achieve those benefits.

18 So what I tried to do is say, gee, is
19 there a different solution here that solves the local
20 reliability problem at a lower cost and still allows
21 those benefits to occur, and that's what I came up
22 with.

23 Q Okay. Wouldn't you agree that, and I think
24 Applicants' testimony bears this out, that really the
25 regional benefits are achieved when the 345 system is

1 connected to the east, right? Do you agree with that
2 premises?

3 A Well, it's also going to be connected to the west.

4 Q That's -- it is connected to the west with a project
5 that's already going to be beginning construction,
6 the Brookings project?

7 A And eventually it needs to be connected to some 345
8 kV project in the east.

9 Q Okay. So if -- if a 345 as part of this project
10 ended at Briggs Road versus ending at Alma, wouldn't
11 you agree that that would have some impact on costs
12 of how much the project to the east would be? Let's
13 use La Crosse/Madison, for example. If this project
14 ends at Alma, you're going to have to build more 345
15 from the east to connect to it than you would if this
16 project went all the way to Briggs Road; wouldn't you
17 agree with?

18 A Well, I would agree that -- and I'm not sure where
19 exactly the closest point to the east of La Crosse
20 is; but the line that comes from Madison works its
21 way west, and I -- I do believe that if you were to
22 go straight to a new Briggs Road 345 kV, that would
23 be less miles than going all the way up to Alma.
24 Whether that would cost less or more, I don't know.

25 Q Thank you.

1 A And the reason why I don't know is I haven't looked
2 at -- I think you refer to it as the Badger Coulee
3 Project or the MVP project to the east, but I've not
4 looked at that.

5 Q So you've given no consideration to the potential
6 impacts on cost to the La Crosse/Madison project; is
7 that your testimony?

8 A I have not looked at that. I mean --

9 Q Thank you.

10 A -- that project will have to stand on its own two
11 feet.

12 Q You reviewed Mr. Lehman's testimony about cost
13 allocation in your Exhibit 3; is that right?

14 A Yes.

15 Q And he believes that the costs that would be
16 allocated to Wisconsin are a lower percentage than
17 the 30 percent you have attributed; is that also
18 correct?

19 A That's what his testimony says.

20 Q And you haven't provided any new calculations to
21 counter that, have you?

22 A No. But I did state in I believe it's my surrebuttal
23 testimony that it appears that that statement is
24 based just on sort of an allocation of capital costs
25 and not the implementation of the MISO cost

1 allocation methodology, which is what I think should
2 be done and what I tried to do in my testimony.

3 Q If -- if the allocation were something other than 30
4 percent, is there a number at which you would change
5 your mind about whether the costs of the project
6 outweigh its benefits? And I'm speaking of the
7 allocation to Wisconsin customers.

8 A Well, I think that you'd want to look at -- I don't
9 know -- no, there's no specific number. But based on
10 the MISO cost allocation methodology and figures that
11 were available to me as a baseline reliability
12 project, I think I came up with something like 150
13 million out of the 507 million go to Wisconsin.

14 Q Is this your first time doing a cost allocation under
15 the MISO tariff?

16 A For a specific project, yes.

17 Q Thank you.

18 A We did -- can I answer that or --

19 Q I don't have another question pending. Thank you.

20 A Fair enough.

21 EXAMINER NEWMARK: Let's move on. Yeah.

22 BY MS. AGRIMONTI:

23 Q Would you agree as a general principle any economic
24 evaluation of transmission upgrades with
25 non-transmission alternatives must consider more than

1 a comparison of capital costs of those alternatives?

2 A I'm sorry. Did you say non-transmission
3 alternatives?

4 Q Uh-huh. That would be a French Island question,
5 which I believe before you agreed is not your
6 recommendation, but just as a general principle.

7 A Well, if you are -- if you are going to not build
8 transmission and install some non-transmission
9 alternative, new generation, for example, then you
10 would need to look at lifecycle costs, yes. And
11 you'd also need to compare it, too, because
12 transmission has costs beyond the initial capital
13 investment. There's O&M costs, likely property
14 taxes. There's a bunch of other things. So if
15 you're going to do a lifecycle cost analysis, you
16 should do it as an apples-to-apples comparison and
17 include all costs.

18 Q Would you agree that both transmission upgrades and
19 non-transmission alternatives have impacts on the
20 cost providing electricity that extend beyond the
21 improvement of system reliability?

22 A They could. That's a possibility. I don't know that
23 they will, but they could.

24 Q Mr. Hahn, I have gotten to you some excerpts from the
25 June 30, 2008, report in Maine. Are these true and

1 correct --

2 EXAMINER NEWMARK: Let's mark that Hahn 5.

3 (Hahn Exhibit No. 5 marked.)

4 BY MS. AGRIMONTI:

5 Q Do you recognize these pages as true and correct
6 copies from that report?

7 A They certainly appear to be.

8 Q Turn to page 45.

9 A That's the last page of this exhibit?

10 Q It is. In the second sentence, it says, "Both
11 transmission upgrades and MTAs, which are
12 non-transmission alternatives, have impacts on the
13 cost to provide electricity that extend beyond the
14 improvement to system reliability."

15 Is that right?

16 A Yes.

17 Q Do you agree with this statement?

18 A Yes.

19 MS. AGRIMONTI: I'd move admission of Hahn
20 Exhibit 5.

21 EXAMINER NEWMARK: Any objections?

22 MS. LOEHR: No.

23 EXAMINER NEWMARK: Okay.

24 (Hahn Exhibit No. 5 received.)

25 BY MS. AGRIMONTI:

1 Q Let's move to page 33 of your direct. You start at
2 the top, lines one through three, you're talking
3 again about this hybrid alternative with the 161
4 connection between Alma and La Crosse, and you say
5 that you expect that Wisconsin's share of the cost of
6 the hybrid solution would be comparable to or less
7 than Wisconsin's share of the 161 alternative
8 analyzed by the applicants.

9 Did you do any analysis of the cost sharing
10 that may occur for your hybrid alternative?

11 A No, I did not have a capital cost estimate for this
12 alternative; but I surmised that it would be, as I
13 said previously, somewhere between the company's 161
14 kV solution and the proposed 345 kV project.

15 Q You also testified that you didn't see any
16 significant disadvantages to this alternative, but
17 you didn't do any engineering studies of your own for
18 that, right?

19 A Gee, no. I wish I had the time to do that, but we
20 didn't.

21 Q When you were analyzing costs and benefits of the
22 project, did you give any consideration to the
23 Dairyland Power Cooperative's need to rebuild the Q1
24 line?

25 A I'm sorry, can you read --

1 Q Are you familiar with the Alma to La Crosse Q1 line?

2 A That's the route that goes along the river.

3 Q There's a 161 line that goes down there.

4 A Yes.

5 Q And did you consider the cost of the rebuild in the
6 analysis of your hybrid?

7 A Well, because that would be in -- let me step back.
8 It's my understanding that that would be required for
9 any of these alternatives, so it would be required
10 for the company's 161 kV and the 345 kV as well. So
11 to the extent that my project came in the middle of
12 those, that would be included, yes.

13 Q Have you been asked to provide any analysis of costs
14 as those costs differ by route?

15 A I've looked at what the company did, but I did not do
16 an independent assessment, no.

17 Q And you haven't provided any opinion on route that's
18 relative to difference in costs; is that right?

19 A I've not analyzed the routes. I utilized the costs
20 that the company provided for those routes, but I did
21 not analyze the routes specifically. That was not
22 one of my three assignments.

23 Q What were your three assignments? Are they listed in
24 the beginning of your testimony?

25 A They're on page 3 of my testimony from lines 7

1 through 25. I won't read them again.

2 Q Thank you. I've got it.

3 All right. I'd like to ask you a couple
4 of questions on the supplemental needs study which
5 is Exhibit 2 of Ms. King's study. You've reviewed
6 that. I think you've made some mention of that
7 today; is that right?

8 A I have reviewed that document, but I don't have a
9 copy with me.

10 Q Do you agree that there's transmission constraint
11 between Minnesota and Wisconsin?

12 A I believe that there is based on my reading of the
13 MISO Transmission Expansion Plan or MTEP, M T E P.
14 And by the way, that's my understanding is that's why
15 they're building these MVP projects, to address that.

16 Q You're referencing MVP projects and saying that I'm
17 building them or my applicants are building them.
18 This is a non-designated -- this is a baseline
19 reliability project, and I just want to be clear when
20 we're talking about the La Crosse project that it's
21 not misrepresented.

22 A Fair enough. I appreciate the clarification.

23 Q Would you agree that 345 facilities are needed
24 between Minnesota and Wisconsin to alleviate this
25 constraint?

1 A If you wish to increase the transfer capability
2 across that interface, you need to build some high
3 voltage lines, and 345 would seem like a good
4 candidate. I mean, in theory, they could be higher;
5 but what has been planned is a series of 345 kV
6 lines; and so I would say that, yes, that's --
7 that's -- I won't say a requirement, but it seems to
8 me that that will address the -- increase the
9 transfer capability.

10 Q Would you agree that a 161 wouldn't increase that
11 transfer capability?

12 A Well, it would, but to a lot lower degree. I mean,
13 345 kV lines carry a rated, you know, 1200 megawatts,
14 a 161 kV line maybe a couple hundred or less. So I
15 think if you're trying to build -- I would not
16 recommend nor did I recommend building a 161 kV
17 across that interface for the purpose of increasing
18 transfer capability.

19 Q You mention Mr. Noeldner's wind capacity factor
20 analysis. Do you agree with his conclusion that 345,
21 specifically the project, would provide access to
22 high capacity factor wind from the west?

23 A I'm sorry, whose testimony?

24 Q Mr. Noeldner.

25 A Did I reference that in my testimony? I don't think

1 so. If I did, you need to help me out here.

2 Q I'll find it for you here. Give me just a moment.

3 Page 24. This must be --

4 A Oh, thank you.

5 Q Yeah. You reference it, but you don't offer any
6 opinion as to whether you agree with the analysis or
7 not. And I'm trying to find out if you agree with
8 the analysis.

9 A Well, I think if -- if you were to build generation
10 in the western region of MISO and you wanted to
11 transmit a lot of that to the load serving centers in
12 the eastern region of MISO, you'd have to check to
13 see whether there was a transmission constraint.
14 There appears to be one. And so if you build
15 facilities that increase that transfer capability,
16 you would allow perhaps more wind to be built. So I
17 think I -- I agree generally with the premise. I've
18 not studied that -- I've not looked at which wind
19 projects in particular, but I think I agree with the
20 premise.

21 Q Let's turn to your surrebuttal. On page 3, you state
22 that you still conclude that the 161 kV option from
23 north Rochester to Briggs Road better matches the
24 costs and benefits to Wisconsin. That's on lines 4
25 through 6. Do you see that?

1 A I'm on page 3 of my surrebuttal at lines 4 through 6?

2 Q Uh-huh. Are you there?

3 A Yeah, I am, but I'm reading.

4 Q Okay.

5 A Well, what it states there is that the revision in
6 the capital costs did not change my opinion.

7 Q Okay. So, I want to clarify because we've had some
8 testimony that you say you're not recommending a 161
9 across the river, yet this alternative is a 161 from
10 North Rochester across the river. So are you
11 supporting the North Rochester/Briggs Road
12 alternative?

13 A I think that alternative, which would address the
14 reliability need to 550 megawatts without the use of
15 French Island generation, is a reasonable alternative
16 because it produces -- it addresses the reliability
17 solution adequately far out into the future at a much
18 lower cost. So that is -- that is a viable
19 alternative to the company's project.

20 Q Okay. That would provide none of the 345
21 across-the-interface benefits?

22 A Which is why I went to my hybrid, if you will, which
23 was trying to sort of capture the best of both of
24 those alternatives.

25 Q So are you still suggesting that rather than the

1 project, the North Rochester to Briggs Road solution
2 ought to be selected by this Commission?

3 A I think that's a viable alternative. I really do.

4 Q So are you recommending it?

5 A That's one option that the Commission should
6 consider, yes.

7 Q Is it your first recommendation or is the Alma to
8 La Crosse recommendation your first priority?

9 A Well, I think -- again, what I tried to do here was
10 come up with a solution that addressed the
11 reliability needs in La Crosse, but also addressed
12 the need to create this high voltage path across
13 Minnesota and Wisconsin, and that's why I think my
14 hybrid solution would be -- would be better than
15 that, but I think they both address the local
16 reliability problem.

17 Q But this Briggs Road/North Rochester alternative
18 would not provide the regional benefits, including
19 the transfer capability nor market benefits; would
20 you agree with that?

21 A Not as -- not to the same degree that the 345 kV
22 would, yes, I do agree with that.

23 Q Okay. In the supplemental need study that Ms. King
24 did, did you review the analysis that showed that if
25 the 345 system is connected to the east, that a 161

1 connection for this CPCN proceeding would degrade the
2 overall transfer capability across the interface?

3 A I don't recall that. That may be there or not. I
4 don't have a copy in front of me to check; but I
5 think that document will speak for itself, whatever
6 it is.

7 MS. AGRIMONTI: Okay. Just a moment. I
8 have no more questions. Thank you.

9 EXAMINER NEWMARK: Mr. Hahn, I just want
10 to interject because I had some question about that
11 figure 1 in your surrebuttal, and I guess I see that
12 you've corrected or you mean to correct the 408 for
13 the 161 kV north Rochester Briggs Road alternative.
14 Is that -- so that 408 that's highlighted should be
15 98 million?

16 THE WITNESS: Yes.

17 EXAMINER NEWMARK: Okay.

18 THE WITNESS: I believe that was confirmed
19 by the company.

20 EXAMINER NEWMARK: But there's no change
21 to your La Crosse 161 alternative, the Wisconsin
22 portion? That's still 408?

23 MS. LOEHR: Your Honor, those are two
24 different alternatives.

25 EXAMINER NEWMARK: Right. Yeah. So the

1 Rochester to North Briggs Road, that goes all the
2 way to -- that's in Minnesota, right?

3 THE WITNESS: Yes. It's 161 kV from
4 somewhere near Rochester, Minnesota, to a new Briggs
5 Road substation somewhere near La Crosse.

6 EXAMINER NEWMARK: Okay. But the
7 Wisconsin share will only be 98 million. The
8 La Crosse 161 alternative goes from where to where?

9 MS. AGRIMONTI: Your Honor, I might be
10 able to help. I believe that the red box here is
11 reversed. CUB called us and let us know that we had
12 our numbers wrong, and that box did have 98 in it,
13 and I believe we corrected it to be 408.

14 MS. LOEHR: Flip that.

15 THE WITNESS: If I might --

16 EXAMINER NEWMARK: Hang on. Just let him
17 answer.

18 THE WITNESS: If I might. If you look at
19 the first line on figure 1, it's the fourth line of
20 the table, the first line below the shaded top three
21 lines. And what you have is you have under the
22 category of fully loaded and escalated costs, you
23 have 230 million in Minnesota.

24 EXAMINER NEWMARK: Uh-huh.

25 THE WITNESS: You have a total of 328.

1 The difference is 98, not 408. So what I believe
2 happened is that there was a spreadsheet and this
3 formula just got carried down. I think it was an
4 inadvertent omission. We drew it to the company's
5 attention or the Applicants' attention; and they
6 said, yeah, it should be 98.

7 So the whole purpose of this was to show
8 that that number was later changed and then I
9 testified on those numbers.

10 EXAMINER NEWMARK: Uh-huh, uh-huh.

11 THE WITNESS: So the line above it, which
12 is the third line in the table, I'm not changing any
13 of those. The 248 plus the 408 gives you 650
14 million.

15 EXAMINER NEWMARK: Okay. And where does
16 that line run? I just got to get it in my head,
17 La Crosse, 161 --

18 THE WITNESS: Somebody -- the company
19 might have to explain that to you. My understanding
20 is that there was a number of new facilities and
21 re-conductoring and upgrades, because the purpose of
22 that alternative, as I understand it, was to get --
23 using only 161 kV alternatives, to get the load, the
24 critical load level to 750; and so you had to do a
25 lot to get it to 750. My testimony is you don't

1 need to go that far.

2 EXAMINER NEWMARK: Oh.

3 THE WITNESS: But if you did, that's what
4 the numbers would show; and I believe that it was a
5 fairly extensive alternative. It was -- it was more
6 than just, you know, Point A to Point B. There was
7 a number of facilities that had to be replaced.

8 EXAMINER NEWMARK: Okay. So this isn't
9 the Alma to Briggs Road --

10 THE WITNESS: No.

11 EXAMINER NEWMARK: Okay.

12 THE WITNESS: No, no, no. That's a
13 separate project.

14 EXAMINER NEWMARK: And is that on this
15 table?

16 THE WITNESS: I don't believe so.

17 EXAMINER NEWMARK: All right.

18 MS. AGRIMONTI: Your Honor, an actual
19 picture of the Briggs Road alternative, both the 750
20 and not, is on page 7 and 8 of Exhibit 2 of Ms.
21 King's testimony.

22 EXAMINER NEWMARK: Oh. Let's go off the
23 record.

24 (Discussion off the record.)

25 EXAMINER NEWMARK: Let's proceed. Do we

1 have more cross? No one else?

2 MS. OVERLAND: No one else?

3 EXAMINER NEWMARK: Doesn't look like it.

4 MS. RAMTHUN: I have some cross, but you
5 go first.

6 EXAMINER NEWMARK: Uh-huh.

7 MS. OVERLAND: One moment. I'm pulling it
8 up.

9 CROSS-EXAMINATION

10 BY MS. OVERLAND:

11 Q Good morning, Mr. Hahn.

12 A Good morning. You are Ms. Overland?

13 Q Yes.

14 A Nice to meet you.

15 Q Representing NoCapX 2020 and CETF. I'm getting a
16 nonresponding error. This is not good.

17 Start at page 1 of your testimony. And I
18 will also be bringing in some things that you had
19 responded to some discovery requests, and so we'll be
20 going a little back and forth with that. And I also
21 will be winnowing to not duplicate what Ms. Agrimonti
22 was asking.

23 Now, a lot of your testimony is regarding
24 161 kV lines between Alma and La Crosse options, and
25 do you know if any generators are closing at Alma?

1 A Any generators are what?

2 Q Closing. Shutting down.

3 A I believe that I did hear that Dairyland Power
4 Company is considering the shutdown of some
5 generators at Alma. I don't know the details, but I
6 do believe I have heard that as a possibility.

7 Q And did you then weigh that in your consideration of
8 alternatives or your offering of alternatives for 161
9 lines from Alma?

10 A Well, we relied on the load flow files that the
11 company had provided us, and I'm trying to recall,
12 but I think there were -- there may have been, I just
13 don't recall given the volume of the data, but there
14 may have been some assumed -- that some of the
15 generators, the existing generators at Alma, were
16 offline. I think there were two. But from a load
17 flow point of view, it doesn't matter whether they're
18 assumed offline because of an outage or because
19 they're not dispatched versus they're retired
20 forever. It doesn't matter to a load flow program.

21 Q For -- keeping in mind your distinction about load
22 flow and power flows, what type of power flow were
23 you presuming for your 161 options?

24 A Well, if --

25 Q Expressed in MVA, let's say, or megawatts.

1 A I didn't assume a specific number. Again, if you
2 look at the alternatives I looked at, the company's
3 proposal is a 345 kV from Rochester all the way down
4 to Briggs Road. I don't recall what the assumed line
5 rating for that is. It's in the company's load flow
6 and so it's a matter of record. My experience is
7 that 345 kV overhead lines have 1,000 to 1,200
8 megawatts of transfer of current carrying capability,
9 but I did not come up with an independent estimate.
10 I used what was in the company's analysis.

11 Q Okay. Well, first you were talking about for the
12 company's 345 configuration. Are you aware that they
13 are using the ACSS conductor?

14 A I believe I read that in the application.

15 Q And are you aware that that's a high capacity
16 conductor?

17 A Yes.

18 Q Are you aware that they are using bundled conductors?

19 A I believe I also read that in the application.

20 Q Would you agree subject to check that a single
21 circuit bundle would be -- have a summer emergency
22 rating of something like 2,000 megawatts, MVA?

23 A I don't recall that number, but it's a number that
24 can exist in fact somewhere. If it's in the filing,
25 it's in the filing. I just don't recall it.

1 Q Does that seem reasonable to you?

2 A Seems high, but it's possible.

3 Q Okay. And then same type of issues regarding the 161
4 that you're promoting. Were you thinking of, you
5 know, ACSS conductor for that, a high capacity
6 conductor?

7 A I did not assume a different conductor for the 161 kV
8 facility than the company assumed in its analysis. I
9 assumed the same.

10 Q Okay. And then would you also be assuming a bundled
11 or not bundled conductor?

12 A I don't recall what the company assumed -- because if
13 you think about it, whatever size conductor or
14 whatever configuration conductor you choose, that's
15 going to be input into the load flow program as an
16 MVA rating for the line. And in these contingency
17 analyses, when a line is overloaded to a certain
18 level, that's considered to be a criteria violation.
19 So I looked at what was in the load flow, I didn't
20 necessarily look at per se what the bundled
21 configuration was or the size. If -- if, in fact,
22 you went to a bundled configuration of a particular
23 conductor and it changed the rating from 1,200 to
24 2,000, that would be reflected in the load flow
25 analysis.

1 Q Okay. Do you have any knowledge of the Applicants'
2 experience with, say, bundled 115 lines in projects
3 in Minnesota that they have done?

4 A You mean whether they've used it before or not? No,
5 I don't know.

6 Q No. So then you would not have any idea of, say, the
7 capacity or the summer rating of the Chisago Project
8 115 kV line? Chisago, C-H-I-S-A-G-O, project.

9 A I don't believe I've looked at that project, ma'am,
10 so I would not have an opinion.

11 Q And do you have any knowledge of the Applicants'
12 conductor summer rating for the Hiawatha project in
13 Minneapolis?

14 A It would be the same answer.

15 Q Okay. Why did you pick 161 and not, say, a 115?

16 A Well, because the rest of the company's -- I'm sorry,
17 the rest of the -- the rest of the existing
18 transmission system in this area has 161 and 69 kV
19 facilities. I don't recall seeing any 115. If you
20 introduced -- I mean, I would not recommend
21 introducing a single 115 kV line into a system that
22 has 69 kV and 161 kV. I mean, you try to standardize
23 on a certain transmission voltage at different
24 levels. So 161, 345, I did not look at a 115 kV
25 solution.

1 Q Okay. So essentially you picked that because that's
2 what's here in the area?

3 A Yes. And to make a change couldn't require more than
4 you need than if you just stick with 161.

5 Q Okay. Would you agree that it could potentially be
6 accomplished with a lower voltage?

7 A I don't think so. I've not analyzed it, but I don't
8 think so. I mean, your only other alternative
9 voltage in this area is 69 kV. And the way the
10 system is configured now, I don't think that would
11 work.

12 Q Okay. Let's see. Do you have any opinion of the
13 need for the Q1 rebuild if generators are indeed
14 closing in Alma?

15 A I did not offer an independent opinion on the
16 rebuild. I assumed that that would be required as
17 part -- I mean, the company stated it in its
18 application. I accepted that. I did not go look at
19 the structures to see if they need to be rebuilt, no.

20 Q Okay. And your alternative -- you analyzed some
21 alternatives for ones that actually had a substation
22 in Alma and did not, correct?

23 A I'm sorry, can you --

24 Q You analyzed 161 kV alternatives that had -- both had
25 a new substation in Alma and then did not connect in

1 the substation in Alma; is that correct?

2 A The -- let me try to be a little clear about this.
3 The hybrid solution that I referenced in my testimony
4 had a 345 to 161 kV stepdown substation somewhere
5 near Alma just on the Wisconsin side of the river and
6 then a 161 kV line down into La Crosse. The other
7 alternative that I -- I discussed, but was not able
8 to fully thresh out, was just connect at the existing
9 161 kV system, that there's 161 kV buses in the Alma
10 area, and connect to one of those. But I couldn't --
11 couldn't get to the bottom of that.

12 Q Okay. And you're aware that the project as proposed
13 now does not have -- does not connect in a substation
14 in Alma, it's just a passthrough?

15 A That's right. It has no -- not even a switching
16 station, as I understand it.

17 Q Right.

18 A It just comes across the river on structures and then
19 heads down along the -- along some route --

20 Q Okay.

21 A -- to be determined.

22 Q Okay. Thank you. Now, in your direct online 4, you
23 don't really need to refer to it, but you're stating
24 that you're -- the need would be deferred to 2024,
25 but then you're proposing a hybrid solution on the

1 other hand. So is it your testimony that a solution
2 is needed now despite that it's deferred to 2024?

3 A Well, what I said in my testimony is that -- is that
4 if you utilized the load forecast that I've
5 developed, and assumed the French Island 4 unit was
6 on, then you need to defer it. But what I'm saying
7 is that there is a need now, and so I'm not
8 recommending a no-build solution as I testified a few
9 minutes ago in response to Ms. Agrimonti's
10 questioning.

11 Q Okay. And on page 5 -- but I think Ms. Agrimonti
12 might have clarified this, and you're referring to
13 the MVP. And what is your understanding of the
14 line -- the Brookings to Hampton line and the
15 categorization of that -- no, no. I'm off here.

16 This line here, the Hampton to La Crosse,
17 is that to your knowledge different types of
18 categorization for MISO or is it all one type?

19 A It's my understanding that the project that we're
20 looking at in this proceeding, excuse me, which is a
21 345 kV line from Hampton County to Rochester to
22 La Crosse with some associated 161 kV facilities also
23 included in Minnesota and in Wisconsin, that that has
24 been designated as a baseline reliability project by
25 MISO. And I believe that during MISO's approval

1 process, at the time this project was designated as a
2 baseline reliability project, the concept of a
3 multi-value project had not yet been placed into
4 effect.

5 Q And so it's your understanding that the entire
6 project is a baseline reliability?

7 A I believe that's correct.

8 Q Okay. And it's your understanding that no part of it
9 is an other?

10 A Not sure what you mean by "other".

11 Q Okay. I just wanted to check and see if --

12 A There may be some costs that are borne locally. I
13 think -- I'm trying to recall, but I think in order
14 for transformation -- transformers to be eligible for
15 cost allocation, both terminals, the high and the
16 low, have to be above 100 kV or something like that.

17 Q Uh-huh.

18 A So it's possible there could be some costs that are
19 not allocated but are directly assigned.

20 Q Okay. Now, in your testimony on page 7, figure 4,
21 you're talking about the total cost of 507 and
22 Wisconsin costs at 215, and what is the source of
23 that number in that figure?

24 A That came directly from the company's file.

25 Q Is that consistent with the MISO tariff and

1 allocation of this project?

2 A I'm not sure I understand the question.

3 Q Well, it came from their numbers, but is that also
4 consistent with the MISO tariff or cost allocation?

5 A Well, this is a -- this is the Applicants' cost
6 estimate.

7 Q Oh. This is not -- okay. This is not attributive to
8 the ratepayers' cost. Okay, I understand. Got it.

9 A You would need to take this cost and apply MISO's
10 allocation methodology for a baseline reliability
11 project to attempt to get the actual amount of this
12 that Wisconsin ratepayers would have to pay, and it's
13 certainly possible. In fact, I think it's the case
14 that Wisconsin ratepayers will pay for some of the
15 facilities in Minnesota.

16 Q Right. And that was where I was heading and -- but I
17 was misunderstanding your use of cost there. I was
18 off. So let me go back.

19 So what is your -- when you talk about
20 Wisconsin ratepayers' cost, are you referring then
21 to the costs of the entire project for Wisconsin
22 ratepayers from Hampton all the way down to
23 La Crosse?

24 A It's my understanding of the MISO cost allocation
25 process for a baseline reliability project is that

1 there are some components that would be directly
2 assigned, and there are other components that are
3 allocated by different methods. And what I tried to
4 do in Hahn Exhibit 3, and this -- this cost
5 allocation was taken from a MISO example from a prior
6 study, and it showed how this cost allocation of a
7 baseline reliability project would work. When MISO
8 did this, and it was done some time ago, it was a
9 lower cost estimate.

10 So I used the same methodology percentages
11 but applied it to the 507 million that was in that
12 other figure in my testimony that you showed. And so
13 there's certain costs that are going to be allocated
14 based on load ratio share, and Wisconsin would get a
15 piece of those.

16 Q Uh-huh.

17 A And then there are other costs that are going to be
18 allocated based on what's called a line outage
19 distribution factor method.

20 Q Uh-huh.

21 A And Wisconsin's going to get a share of those. And
22 the way the line outage distribution factor method
23 works is that MISO takes the project from Hampton to
24 La Crosse and all the facilities, but they look at
25 each individual component of it, the lines and the

1 transformers, and they use a program called MUST,
2 M-U-S-T, I think.

3 Q Uh-huh.

4 A And so you basically take each facility out, and you
5 determine if -- whether that affects the flows on
6 neighboring facilities, and that's how you allocate
7 it. So it could be that an outage of a line in
8 Wisconsin -- I mean, in Minnesota has an effect on
9 lines in Wisconsin and, therefore, they would be
10 allocated to share those costs.

11 Q And has that been addressed, to your knowledge, in
12 this proceeding as far as cost to Wisconsin
13 ratepayers?

14 A Well, that's what I tried to do in my testimony, and,
15 you know, I did the best job I could with it. You
16 know, is it a perfect estimate, no. I'll admit that
17 to you. But I -- I think I'm the only one that may
18 have introduced the subject.

19 Q Uh-huh. And then would you agree that the Brookings
20 to Hampton line is connected to this line coming from
21 the west to the east?

22 A I would agree with that.

23 Q And has the cost to Wisconsin ratepayers of that
24 project been addressed in any way in this proceeding?

25 A No. Because they will -- first of all, that's a

1 multi-value project.

2 Q Uh-huh.

3 A So it will be allocated mainly on load ratio share as
4 opposed to the line outage distribution method. And
5 so, if that project is built, and it's my
6 understanding that it's under construction.

7 Q Uh-huh.

8 A Wisconsin's going to pay that whether the project
9 we're looking at in this proceeding gets built or
10 not. So I considered it -- I don't want to say a
11 sunk cost, but a cost that was not avoidable by
12 anything we did here today.

13 Q Uh-huh. And to your knowledge, has that cost been
14 addressed anywhere in the Wisconsin proceeding?

15 A I'm not aware of it. And I guess I would say maybe
16 it's not necessary to do that because those costs are
17 going to be allocated no matter what we do here.

18 Q I have some concerns about your statements on page 5
19 about La Crosse to Madison to Dubuque.

20 A Page 5 you said, ma'am?

21 Q Page 5. You're talking about La Crosse to Madison to
22 Dubuque. Maybe not.

23 A Yeah, you're right. This is page 5.

24 Q Yeah. It's page 5. Okay. And what is your
25 understanding of the power flow direction on the

1 piece from Dubuque to Madison, or Madison to Dubuque
2 as you say?

3 A The piece from Madison to Dubuque?

4 Q That extends between Dubuque and Madison. What is
5 your understanding of the power flow direction?

6 A I don't know that I recall the specific flows on that
7 particular segment, but generally, you know, power
8 flows west to east in MISO.

9 Q Okay.

10 A I mean, you have the load centers in the east, and
11 you've got some generation in the west. So it does
12 tend to go west to east.

13 Q And so would you agree that maybe a more accurate
14 statement on that would be La Crosse to Madison and
15 Dubuque to Madison?

16 A Again, I did not really analyze this project in
17 detail, so I don't know the answer to that question.
18 I just wish to point out that at some point, in order
19 to make this portfolio of MVP projects work, you need
20 to connect the dots in the middle.

21 Q Uh-huh.

22 A So somehow, some way I think you need to do that.

23 Q Okay. I'll leave that there. Now --

24 A I just want to be clear. I did not analyze the
25 La Crosse to Madison to Dubuque project, if that's

1 also called Badger Coulee. I did not look at that in
2 detail. I offer no opinion on that. I just want to
3 note that at some point, which I think it's already
4 been confirmed by the testimony of others, it's got
5 to connect somewhere.

6 Q All right. But it's all connected?

7 A Yes.

8 Q Thank you. Now, on page 7, your Figure 3 shows
9 potential ownership percentages. Now, to your
10 knowledge, have the applicants agreed to any
11 specific -- agreed -- committed to any ownership
12 percentages?

13 A It's my understanding -- my recollection from
14 discovery responses is that the precise terms of the
15 ownership agreement are yet to be finalized.

16 Q Okay. Then if you look at your page 6, line eight,
17 and I notice that owned is past tense. Should that
18 be some other word?

19 A Well, this -- this data was from the company's
20 filing, so it wasn't numbers that I came up with.
21 This is what the company has estimated in the CPCN
22 filing. But then under discovery, you know, we asked
23 for more details about that, and that's when I think
24 we got the answer that the final detail's to be
25 worked out.

1 Q And that's why I'm asking about this, because your
2 Figure 3, that does state potential ownership
3 percentages; but your testimony states owned, as in
4 past tense, as if it is owned, and it seems your
5 testimony is right now that it is not owned, it is
6 potential ownership.

7 A I'll accept that clarification.

8 Q Thank you. Do you know if -- so to your knowledge,
9 they have not declared the ownership of this project?

10 A That's my understanding. Again, I think this may be
11 a preliminary estimate, final details to be worked
12 out.

13 Q Okay. On page 7, line 14, you're referring to
14 reduced production costs, and could you be specific
15 about what that -- those reduced production costs
16 are?

17 A Well, that's what Ms. Agrimonti and I were
18 discussing. If you have a system -- a
19 transmission -- a system of transmission lines and
20 generators, and there are transfer limits or
21 constraints, and we talked about the transfer limit
22 somewhere near the Wisconsin-Minnesota border,
23 what -- if you have lots of load in the east, your
24 generators are in the west, and you'd like to send it
25 all to the east but you can't because there's a

1 transmission constraint. And what happens is you run
2 higher cost generation in the east and so it's
3 available in the west, and that's what I understood
4 the company's claim benefit in terms of lower
5 production costs to be.

6 Q And what type of generation is that that's in the
7 west?

8 A Oh, could be lots of things. I mean, there's wind
9 being developed. There's coal. I couldn't list all
10 the sources. I think somewhere in the details of the
11 MISO reports that data exists, but I don't have it at
12 the tip of my tongue.

13 Q Online 15 you also talk about lower system losses,
14 and would you agree that the Applicants' -- the
15 application's system losses are -- range from, like,
16 4 to 11 megawatts, that that would be their loss
17 savings?

18 A They did cite a number. I don't recall what it was,
19 ma'am, and I believe that number was for a fairly
20 broad area of the electrical grid.

21 Q Would you agree it's the eastern interconnect?

22 A I believe that's what they said.

23 Q Okay. And if there's a four -- if you assume that
24 it's a 4 to 11 megawatt loss savings when compared
25 against the megawatts in the eastern interconnect,

1 what kind of percentage would that be, roughly?

2 A Oh, a very small one.

3 Q Infinitesimal?

4 A Well, I don't know if I can characterize it that far.
5 I mean, MISO's a big system, and there's a lot of
6 load everywhere, but there's a lot of load in the
7 east. What it is, again, it's not a number that I
8 carry around in -- on the tip of my tongue, but it's
9 generally available within the MISO documents.

10 Q Would you agree the eastern interconnect would also
11 include PJM?

12 A The eastern interconnect is everything east of the
13 Rocky Mountains. So, yeah, it's a big system.

14 Q Right. So it's not just the MISO system, correct?

15 A That's my understanding.

16 Q Okay.

17 A And I believe that's what the answers to discovery
18 responses were.

19 Q Right. We want to get it in the record. Thank you.

20 Let's see. On page 8, line one. Well,
21 actually, it starts on the bottom of page 7, but
22 you're stating that much of the analysis was
23 conducted prior to 2008. Would you agree, subject to
24 check, that the majority of the analysis for this
25 project was done 2004, 2005?

1 MS. AGRIMONTI: Objection to form.

2 EXAMINER NEWMARK: Overruled.

3 THE WITNESS: I'm generally -- by the way,
4 am I to answer that?

5 EXAMINER NEWMARK: Go ahead.

6 THE WITNESS: Yes. Thank you. I'm aware
7 that the analysis for this project began somewhere
8 back around 2005. I don't know whether I can
9 characterize it as majority or not, but there was
10 some work in -- a fair amount of work done on this
11 project back then, yes.

12 BY MS. OVERLAND:

13 Q Okay. And have you reviewed the October 2005
14 technical update, the CapX vision plan?

15 A I'm actually not sure. I don't think so.

16 Q Okay.

17 A I mean, I read a lot of documents in this case. I
18 focused mainly on the ones that were more current, so
19 I don't recall whether I read that or not. I'm
20 sorry.

21 Q Would you agree that much has changed in the world of
22 load forecasting since 2004 or even 2008? Let me
23 rephrase that.

24 Would you agree that much has changed in
25 demand for electricity since 2008?

1 A Yes.

2 Q And what types of changes have you observed?

3 A Well, if you look at page 15 --

4 Q 15?

5 A Sorry. Figure 15 of page 28 of my direct testimony,
6 this graph would show that since 2008 the projections
7 of loads at certain points in the future has
8 declined.

9 Q That's a no. Since we're on page 15, let's turn to
10 the next page, page 16. And you touched on this with
11 Ms. Agrimonti, but I wanted to clarify. Your
12 testimony was that it would be -- the French Island
13 unit would be run, like, 54 hours and 61 hours, and
14 is it correct that you did not do any cost estimate
15 of what that would cost?

16 A That's correct.

17 Q And so then also you did not do any comparison of
18 what running those would cost versus building this
19 project?

20 A That's correct.

21 Q Okay. Thank you. And on page 17 -- and you
22 discussed this a bit with Ms. Agrimonti as well.
23 Where you're talking about outages of -- where both
24 the Madgett Unit and Badger Coulee line would be out.
25 Did you do any probability analysis of that scenario?

1 A No.

2 Q Did you check to see if the applicants had done a
3 probability analysis of that?

4 A I didn't see one in the filing, and I didn't ask for
5 one. Although, you know, it is -- and I'll say
6 common transmission planning practice to look at two
7 elements out. So I was not surprised at that, but I
8 did not ask for a probability, and I don't recall
9 seeing one anywhere in the record.

10 Q Okay. Thank you. And there was also some discussion
11 of associated projects with 161, and I want to check
12 on this. I think I know the answer. The cost of the
13 Q1 upgrade integrated into the total project cost,
14 you did include that in because it was assumed?

15 A Yes.

16 Q Okay. Okay. You're talking about the reduced and
17 lower production costs in your testimony, which we
18 also discussed a bit. And did you review Mr.
19 Beuning's testimony and Exhibit 2 of his testimony?

20 A I'm sure I did at one point.

21 Q Would you agree that the PROMOD modeling that they
22 did, it is dependent on the 345 kV eastward
23 expansion?

24 A It's my understanding that when analyzing the
25 production cost benefits, they assumed the MVP

1 projects were in service in addition to the baseline
2 project being studied here.

3 Q Okay. And would you agree that they estimated that
4 when comparing the 345 and 161, the cost savings
5 would be roughly \$57 million of production cost
6 savings, roughly?

7 A That number sounds about right. But again, it's a
8 number that's in the record.

9 Q It's there right. Why don't I get your opinion of
10 some of these concepts.

11 MS. AGRIMONTI: Your Honor, I am going to
12 interpose an objection here. It appears that would
13 be a bit beyond the scope of his testimony if
14 Ms. Overland wants to use Mr. Hahn to critique
15 Mr. Beuning's analysis. And in fact, I didn't ask
16 anything in my questioning about Mr. Beuning's
17 analysis either.

18 MS. OVERLAND: Your Honor, we were asked
19 to, like, file our interrogatories, and this is
20 going back to just a bit of that regarding
21 Mr. Beuning's analysis, and that was filed.

22 EXAMINER NEWMARK: Your interrogatories
23 were filed and ERF, that's what you're referring to?

24 MS. OVERLAND: Right. And we were
25 instructed to file those so there wouldn't be any

1 surprises.

2 EXAMINER NEWMARK: Uh-huh. And you asked
3 that question in interrogatory to Mr. Hahn?

4 MS. OVERLAND: Yes.

5 EXAMINER NEWMARK: Okay. Proceed.

6 MS. OVERLAND: I'll keep it very limited.

7 EXAMINER NEWMARK: Okay. Great.

8 BY MS. OVERLAND:

9 Q Do you recall that there was a column regarding -- do
10 you recall that in the cost savings, different types
11 of generation were addressed? Say there was -- like,
12 it did not include wind and there were hydro, gas
13 plant, mine cycles. Do you recall that there were
14 those types of --

15 A And I just don't recall that level of detail. I'm
16 sorry, I don't.

17 Q Okay. And do you remember that -- do you recall
18 whether the greatest production cost savings was
19 labeled as steam cost?

20 A Again, I don't recall those -- that level of detail,
21 ma'am. I'm sorry.

22 MS. OVERLAND: Okay. I'll discuss this
23 then with the Applicants' witness.

24 BY MS. OVERLAND:

25 Q To clarify, too, regarding -- there was some

1 questions earlier regarding some costs and benefits
2 that you looked at, and have you seen any estimate of
3 regional benefits of this project on its own without
4 the La Crosse to Madison extension?

5 A I don't believe so, no.

6 Q Regarding your 1 percent load growth estimate, on
7 page 12 and 13 of your testimony, you're referring to
8 the business as usual and the high load growth, and
9 would you agree that your estimate of 1 percent is
10 higher than the business as usual scenario of .78
11 percent?

12 A I would agree that 1 percent is higher than .78,
13 absolutely.

14 Q Okay. Why would you pick a load growth estimate
15 higher than business as usual?

16 A Well, the 1 percent that we -- that I picked as a
17 load growth -- as a growth rate to apply to the 2011
18 actual peak loads as I saw them was based on
19 historical data for this particular load area. So if
20 you looked at the La Crosse area that we are all
21 talking about here, I believe it was from 2001 to
22 2011. The actual numbers are in my testimony.

23 Q Uh-huh.

24 A It was 1 percent. The other load forecasts are for a
25 bigger region. And so, you know, we looked at it.

1 We discussed it back at the office, and I decided
2 that I would go with the 1 percent because it was --
3 it was more directly applicable to the area we're
4 looking at. I did cite these other load forecasts as
5 evidence that there's a lower number, but the number
6 I chose was for that reason.

7 Q In that, did you take into account any policy changes
8 regarding energy efficiency, conservation, load
9 management that may reduce the load growth?

10 A Well, I think that could likely and probably is
11 likely embedded in the historical data as well. So
12 in order for that growth rate to be, you know,
13 projected going forward, again, as a long-term trend
14 as I discussed earlier, I felt it was reasonable.
15 Could massive deployment of energy efficiency make
16 that number lower, yes. I guess that's possible, but
17 that's not something that I considered in my
18 testimony.

19 Q Okay. Could a modicum of conservation and energy
20 efficiency also reduce that?

21 A I didn't do the analysis that way. As I explained, I
22 relied on historical data.

23 Q And you used the term massive, so would you agree
24 that --

25 A Well, actually I thought you used the term massive.

1 But whoever used it, okay, it's here.

2 Q I don't think I did.

3 A All right. If I did, then I'm guilty.

4 Q Okay. Thank you. We'll accept that subject to
5 check.

6 Okay. And on page 19, lines 17 through 18,
7 going back to that excessive notion, and then you're
8 comparing the costs right below that. If a project
9 is excessive, would not any -- wait. First -- no.
10 Let me do this a different way.

11 If a project reasonably exceeds the
12 Applicants' probable future requirements, then
13 you're calling that excessive, correct?

14 A But not on a -- yes. But not on a cost basis, on the
15 magnitude of the reliability solution.

16 Q Okay. But if a project is excessive on the
17 reliability basis, isn't any cost excessive to meet a
18 reliability -- if the project is excessive, isn't any
19 cost for that project also excessive, spending too
20 much money for what isn't needed?

21 A Which is -- generally that's true, which is why I
22 believe that the lower voltage alternatives, the 161
23 kV solutions that we talked about that have a lower
24 capital cost are, you know, a good solution. But
25 what I was asked to do was look at the proposed

1 project, 345 kV project, and say in your opinion,
2 Mr. Hahn, do you think those numbers are reasonable
3 for that project, and I looked at some other
4 projects. I looked at the cost segments per line,
5 and I concluded that it was reasonable. That does
6 not mean that that's the solution you want, it just
7 means that the solution for -- the cost for the
8 proposed project in my view is reasonable.

9 Q And so you're limiting that to the costs for the
10 proposed project is reasonable in comparison to
11 similar projects, but -- correct?

12 A Yes.

13 Q But it is not necessarily reasonable to spend this
14 cost on a project that is not needed?

15 A Well, I think there's a -- as I said earlier, there's
16 a lower voltage solution that addresses the
17 reliability concerns in the La Crosse area adequately
18 that does cost less, yes.

19 Q Okay. On page 20 you note that -- at the bottom on
20 page 14, line 14, you're comparing different line
21 segments, and your testimony, am I to understanding
22 correctly, that the 7.1 million is the cost estimate
23 at the river crossing, the segment of the river
24 crossing; is that correct?

25 A Yes.

1 Q And did you take a look at the comparison of the cost
2 of undergrounding on that section and this 7.1
3 million estimate for the above-ground construction?

4 A Not specifically, no.

5 Q Okay. So do you have any information about that?

6 A No, ma'am.

7 Q Okay. Now, there was some question earlier about the
8 Cross-State Air Pollution Rule. Do you recall that,
9 moments ago?

10 A Yes, ma'am.

11 Q Is that in effect now?

12 A Well, it's my understanding that -- that fines aren't
13 actually being assessed for 2012, but that because
14 the -- the legitimacy of the rule, if you will, was
15 challenged, and that that has sort of set it into
16 limbo. But, I mean, when you say it's in effect, I
17 mean, I think it's a law that exists that's subject
18 to challenge, so I think you could argue that it's in
19 effect. I just don't think they're going to, you
20 know, assert penalties in 2012.

21 Q So maybe it would be characterizing that that
22 enforcement is delayed at this point?

23 A I think that's fair.

24 MS. OVERLAND: Okay. I'm winnowing down.
25 I do believe we're almost done. Okay. I have no

1 further questions.

2 EXAMINER NEWMARK: Okay. Other cross?

3 CROSS-EXAMINATION

4 BY MS. RAMTHUN:

5 Q Mr. Hahn, I'm Diane Ramthun for the Public Service
6 Commission. I'm going to refer to your direct
7 testimony, and I'm going to ask a couple questions in
8 two areas: the load forecast and the regional
9 benefits. Would you -- I'm going to refer you to
10 your direct testimony, page 12, starting with line
11 13.

12 A I have it.

13 Q In this -- in this testimony, you're talking about
14 the forecasted peak load growth, and you're talking
15 about Ms. King's testimony, correct?

16 A I think primarily Ms. King's testimony, although the
17 load forecast was used in lots of other analyses.

18 Q As I understand, the historical growth between 2002
19 and 2011 is -- was 1 percent annually, correct?

20 A That's correct.

21 Q And the Applicants' forecast assumes 2011 through
22 2020 growth of 1.46 percent?

23 A That's my understanding, yes.

24 Q And that is an issue for you, correct?

25 A Yes.

1 Q And as I understand what you're saying there is at
2 least part of the issue is no adequate explanation
3 was given by the applicants for that acceleration and
4 load growth?

5 A Well, that's one of the reasons stated. But also
6 these other forecasts that have been referred to that
7 have growth rates of less than 1 percent would be
8 used as, quote/unquote, a benchmark.

9 Q But I wanted you to explain what you meant by no
10 adequate explanation has been given.

11 A I don't recall seeing, you know, a detailed
12 explanation of the load forecasting process that
13 would result in that 1.46 percent growth rate, which
14 you need to -- probably should look at, but I didn't
15 think it was available in this case.

16 Q And who would you have expected that from?

17 A Well, I mean, in an ideal world, it becomes part of
18 an application. Applications are fairly large and
19 complex already, so -- but, I mean, if -- in an ideal
20 world, I would think that the applicants would
21 justify that assumption.

22 Q Do you think that 1.46 percent assumption is
23 unsupported?

24 A I believe so.

25 Q Going now to your page 24 in your direct testimony,

1 and in -- starting at about line 11 you talk about
2 regional benefits. Do you recall when you were
3 asked -- answering questions from Lisa Agrimonti that
4 you said to the effect that if we build -- if
5 generation is built in western Minnesota, if
6 facilities are built, it will increase transfer
7 capacity and that will allow wind projects to be
8 built. Do you recall -- not those exact words --

9 A Words to that effect.

10 Q Yeah.

11 A Yes, ma'am.

12 Q When we're talking about wind capacity that is to be
13 built, we're talking about future projects, correct?

14 A Yes.

15 Q Or were you also referring to existing projects that
16 had been targeted as needing transmission?

17 A Well, I think the system is somewhat congested now.
18 In other words, if you were to look at location of
19 marginal prices in MISO, they are -- and look at the
20 congestion component as opposed to the loss
21 component, you would see that in the eastern end of
22 the MISO system, they're higher than they are in the
23 west. That would imply a transfer limit somewhere in
24 the middle because in an un -- in an unconstrained
25 transmission system, the congestion component theory

1 is zero. Now, that's an ideal, is almost never
2 achieved because there are always transmission
3 constraints in the system. But as a general rule,
4 power wants to flow from west to east in MISO. And
5 if you look at the LMPs, there's some congestion
6 there.

7 Q But what does it mean in this context to you as an
8 expert in terms of future wind projects and this will
9 facilitate them? What are we talking about? How
10 many or what level?

11 A Well, to be determined, I guess. I'm generally aware
12 of wind projects being proposed for places west of
13 here, but I can't -- I can't cite chapter and verse
14 as to what these projects are and exactly which ones
15 will exacerbate congestion or not. To me, it's more
16 of a general conclusion that the system does have
17 some congestion now, and that if you were to build
18 more projects now, not connect the dots, if you will,
19 for this MVP system, you could likely exacerbate that
20 congestion.

21 Q And what's the time frame?

22 A Oh. Well, it would obviously depend on the timing of
23 the completion of the transmission projects and the
24 timing of the installation of the generators. But I
25 mean, in general -- well, maybe I can perhaps give

1 you an example.

2 My hometown, Boston, was a heavily
3 congested area, and they did build some transmission
4 projects. They added some generation, and congestion
5 in New England is much, much smaller than it was four
6 or five years ago. So I don't dispute that that can
7 occur. What I question is, you know, who should pay
8 for that, I guess is my testimony.

9 MS. RAMTHUN: Okay. All right. Thank
10 you. No further questions.

11 EXAMINER NEWMARK: Oh. Go ahead.

12 MR. THIEL: Yeah, DOT, a question. Jim
13 Thiel from the Department of Transportation.

14 CROSS-EXAMINATION.

15 BY MR. THIEL:

16 Q You said -- I believe your testimony was that the
17 estimates provided and that you used were that the
18 project proposal by the applicants included an
19 upgrade of the 161 kV system on the Q1 line?

20 A The rebuild?

21 Q Yes.

22 A Yes.

23 Q And do you know if that particular upgrade uses the
24 same poles that exist today, or were they hung on the
25 new poles, or would any of your 161 hybrids just use

1 the same poles that exist today?

2 A Boy, I don't recall the details of the rebuild,
3 whether they would replace or repole, or just certain
4 portions of them. But my assumption was that the 161
5 kV alternatives that I looked at would take the same
6 place, if you will, of the company's 161 alternative,
7 whatever that was. And from a solution to
8 reliability program, -- solution to reliability
9 problem, the load flow doesn't recognize that level
10 of detail. So I did not get into it in as much
11 detail as I did some of the other aspects of the load
12 flow.

13 Q All right. So basically you didn't look at changes
14 of the poles or size of poles or location of poles?

15 A Not that level of detail. I do recall reading that
16 this work had to be done and that it would be done
17 for several of these alternatives. But, again, I did
18 not go out and examine each product and say this one
19 needs a new crossarm and this pole has a rotten base.
20 I did not do that, no, sir.

21 MR. THIEL: Okay. No further questions.

22 EXAMINER NEWMARK: Okay. Redirect.

23 MS. LOEHR: Just a couple questions,

24 Mr. Hahn.

25 REDIRECT EXAMINATION

1 BY MS. LOEHR:

2 Q Going kind of way back now. Ms. Agrimonti asked you
3 about cost allocation analyses you've done with
4 respect to the MISO tariff, and you were beginning to
5 mention another one which you might have done. Do
6 you recall that?

7 A Yes. La Capra Associates was retained by the
8 Arkansas Public Service Commission to review Entergy
9 Arkansas' withdrawal from the Entergy system
10 agreement, and which -- or what Entergy Arkansas
11 should do next. They are leaving the system, so they
12 need -- Entergy Arkansas needs to decide whether they
13 become a standalone balancing authority area, whether
14 they join SPP, Southwest Power Pool, or whether they
15 join MISO. And I believe that the company's option
16 is to join MISO.

17 And in looking at this, the allocation of
18 transmission costs became a very important component
19 of the benefit/cost analysis of whether it's worth
20 it, whether the benefits of Entergy Arkansas joining
21 MISO outweigh the cost. So we looked at this -- sort
22 of the entire cost allocation process in its
23 entirety, not just the MVP projects, but the baseline
24 reliability projects. So we have looked at similar
25 type activities than was looked at here.

1 Q Thank you. And do you also still have Exhibit 5 in
2 front of you, the -- your consultant report for
3 Central Maine Power Company?

4 A Yes.

5 Q And the sentence I believe Ms. Agrimonti referenced,
6 both transmission upgrades and MTAs have impacts on
7 the cost of providing electricity that extend beyond
8 the improvement of system reliability. Do you have
9 any additional comment regarding that?

10 A Yeah. Well, I would like to clarify that in this
11 particular study we looked at constructing
12 non-transmission alternatives, building new
13 generation that doesn't exist today that would say,
14 okay, if I build enough generation of the right type
15 and the right location, then I don't need to upgrade
16 the transmission system. And obviously those
17 generators have a capital cost that's recovered over
18 time. They have O&M costs. They may or may not have
19 fuel costs, which may be significant.

20 And so we did do a lifecycle cost analysis
21 of that particular alternative, and we also did a
22 lifecycle cost analysis of the transmission assets,
23 because the transmission lines that were going to be
24 built had ongoing O&M, some cases you're going to pay
25 property taxes or personal property taxes to local

1 communities in Maine. So we captured all those costs
2 in a lifecycle analysis.

3 And I just want to draw a distinction,
4 that's different from what I've been asked to do here
5 because I've not been asked to look at
6 non-transmission alternatives to this particular
7 project, and I just wish to offer that clarification.

8 MS. LOEHR: Thank you. No further
9 questions.

10 EXAMINER NEWMARK: All right. Sir, you're
11 excused.

12 THE WITNESS: Thank you very much, Your
13 Honor, for accommodating my schedule.

14 EXAMINER NEWMARK: Absolutely. Not a
15 problem.

16 (Witness excused.)

17 EXAMINER NEWMARK: So we're starting back
18 up with the applicant witnesses.

19 MS. AGRIMONTI: I believe we have
20 Mr. Burmester.

21 EXAMINER NEWMARK: Okay. What do we have
22 in store for him exactly?

23 Off the record a second.

24 (Discussion off the record.)

25 EXAMINER NEWMARK: All right. Let's call

1 him.

2 DALE W. BURMESTER, ATC WITNESS, DULY SWORN

3 EXAMINER NEWMARK: Have a seat.

4 DIRECT EXAMINATION

5 BY MR. CULLEN:

6 Q State your name, title, and business address.

7 A My name is Dale Burmester. I'm manager of the
8 economic planning group for American Transmission
9 Company. My address is 2 Fen Oak Court, Madison,
10 Wisconsin 53718.

11 Q And are you the same Dale Burmester who has filed
12 direct and surrebuttal testimony in this matter?

13 A Yes, I am.

14 Q And is the information contained in your answers to
15 those questions true and correct to the best of your
16 knowledge?

17 A Yes, they are.

18 EXAMINER NEWMARK: Okay.

19 MR. CULLEN: The witness is available for
20 cross-examination.

21 EXAMINER NEWMARK: Cross.

22 MS. OVERLAND: I'm next?

23 EXAMINER NEWMARK: Go ahead.

24 MS. OVERLAND: Good morning,

25 Mr. Burmester.

1 THE WITNESS: Good morning.

2 CROSS-EXAMINATION

3 BY MS. OVERLAND:

4 Q On page 5 of your testimony, your direct, line six,
5 you're referring to -- you have CapX 2020 listed
6 there. What's your perception of what CapX 2020 is?

7 A CapX 2020 is the coalition of companies that are
8 proposing to construct this line.

9 Q Are you aware that there's no business entity called
10 CapX 2020?

11 A I don't know.

12 Q You don't know, okay. On page 5, line 14, you're
13 talking about the western Wisconsin transmission
14 reliability study and that that's part of a larger
15 combination of benefits analysis. What benefits are
16 you referring to there, with specificity?

17 A The western Wisconsin reliability study took into
18 account a number of benefits for various projects
19 within this general area, including reliability
20 benefits, loss savings, transfer capability
21 improvements.

22 Q Would you agree that the -- part of what the -- the
23 one thing that the study revealed was that the
24 benefits -- that an extension from La Crosse to
25 Madison is necessary to achieve those benefits?

1 A The benefits that were outlined in this report did,
2 yes.

3 Q And on your testimony, page 6, you're stating that
4 all of the studies presumed that this project, the
5 Hampton-Rochester-La Crosse Project was in service.
6 If it were not in service, would there be any need
7 for an extension from La Crosse to Madison?

8 A Under that hypothetical, we'd have to reevaluate the
9 benefits of a 345 kV line further to the west.

10 Q Further to the west?

11 A Namely the Badger Coulee Project.

12 Q You mean from the Badger Coulee -- from -- west from
13 La Crosse or west from Madison?

14 A I'm sorry, yes. It would be east -- east of this
15 project. It's essentially the Badger Coulee Project
16 would need to be reevaluated.

17 Q And is that because it would need to connect to a 345
18 line?

19 A The benefits of Badger Coulee do rely in great part
20 on the connection to a 345 kV line, yes.

21 Q Okay. And essentially a radial 345 would not do it,
22 is that it?

23 A Like I said, we would have to reevaluate the
24 benefits, yeah.

25 Q Now, you state though on page 6 that you support the

1 Applicants' position that a 345 kV line from the west
2 that terminates in the La Crosse area would provide
3 significant reliability usage and service benefits to
4 Wisconsin customers. Can you explain that?

5 A Which part would you like me to explain?

6 Q What -- okay. First, what significant reliability
7 benefits would this Hampton to Rochester-La Crosse
8 Project provide to Wisconsin customers?

9 A Well, I think my statement is that we haven't
10 conducted our own studies. We generally support the
11 project, so I don't have specific details on each one
12 of these.

13 Q Okay. So you're just supporting it generally, but
14 you don't -- you can't testify as to what specific
15 reliability usage or service benefits it would
16 provide to Wisconsin?

17 A That's correct.

18 MS. OVERLAND: Okay. I have no further
19 questions.

20 EXAMINER NEWMARK: Okay. Other cross?

21 (No response.)

22 EXAMINER NEWMARK: Redirect?

23 MR. CULLEN: No.

24 EXAMINER NEWMARK: Okay. You're excused.

25 THE WITNESS: Thank you.

1 (Witness excused.)

2 EXAMINER NEWMARK: Now who's supposed to
3 be next? Is it Applicants' witnesses? So let me
4 ask my question again, how does it look for him and
5 for cross?

6 MS. AGRIMONTI: Mr. Noeldner is our first
7 witness.

8 MS. OVERLAND: He's here?

9 MS. AGRIMONTI: Yes.

10 TIM NOELDNER, APPLICANT WITNESS, DULY SWORN

11 EXAMINER NEWMARK: Okay. Have a seat.

12 DIRECT EXAMINATION

13 BY MS. AGRIMONTI:

14 Q Mr. Noeldner, would you please state your name and
15 address and what your current position is at WPPI
16 Energy.

17 A Sure. My name is Tim Noeldner. I am the assistant
18 vice president of special projects at WPPI Energy,
19 and our address is 1425 Corporate Center Drive, Sun
20 Prairie, Wisconsin 53590.

21 Q Did you file direct testimony with three exhibits in
22 this case?

23 A Yes.

24 Q And were they prepared by you or at your direction?

25 A Yes.

1 Q Did you have a correction that you identified this
2 morning that you wanted to make to your direct
3 testimony on page 7?

4 A Yes.

5 Q Line five?

6 A On page 7, line five, there should be a completion of
7 that sentence that says --

8 EXAMINER NEWMARK: Okay. Let's go off the
9 record and do that.

10 (Discussion off the record.)

11 EXAMINER NEWMARK: Okay. Back on.

12 MS. AGRIMONTI: Mr. Noeldner is available
13 for cross-examination.

14 EXAMINER NEWMARK: Questions?

15 Go ahead.

16 MS. OVERLAND: We'll have a few.

17 CROSS-EXAMINATION

18 BY MS. OVERLAND:

19 Q Good morning.

20 A Good morning.

21 Q I'll try to keep this brief. Much of your testimony
22 is about facilitation of wind generation into
23 transmission; is that correct?

24 A That's correct.

25 Q Would you agree that most wind projects -- well,

1 first, this will be regarding wind projects west of
2 Wisconsin coming into Wisconsin; is that correct?

3 A Your question is about that?

4 Q Well, your testimony is regarding wind projects and
5 transmission, and you would be referring to bringing
6 into Wisconsin wind generation that is occurring
7 outside of Wisconsin; is that correct?

8 A The model that I ran is customized to that situation,
9 yes, or a transfer from Minnesota wind to Wisconsin
10 load.

11 Q Okay. I will let you know I worked on the Bent Tree
12 Project that brought Minnesota wind into Wisconsin,
13 and that was a PPA with a Wisconsin utility, but it
14 was built in Minnesota. Is that the scenario you're
15 speaking of?

16 A Did you say Bent Tree?

17 Q Bent Tree Project, correct.

18 A That would be an example of one -- one possible
19 transaction could fit in this category, yes.

20 Q Okay. Now, do wind projects that fit in that
21 category, are they then the ones with PPAs with
22 Wisconsin utilities?

23 A This is a general study that just looks at what is
24 the value of higher capacity factor wind outside the
25 state of Wisconsin and Minnesota versus what we have

1 in Wisconsin. So it could be a PPA that brings that
2 energy into the state, or it could be a Wisconsin
3 utility that actually owns wind turbines in
4 Minnesota.

5 Q And WPPI does own two projects, right?

6 A We own two wind turbines.

7 Q Two wind turbines?

8 A At Worthington, Minnesota.

9 Q And the other in Iowa?

10 A The ones in Iowa, Barton and Top of Iowa are PPAs.

11 Q Do you know of any instance where wind projects are
12 available on the General Electric -- you know, wind
13 generation, wind energy, would be available in the
14 general market as opposed to PPAs?

15 A Not sure what you're asking. Do you mean whether you
16 can buy it in the LMP market?

17 Q Right.

18 A If -- if a project is not fully subscribed and
19 congestion is zero between Minnesota and Wisconsin,
20 it is true that you could get wind energy off from
21 the LMP market.

22 Q Based on my experience with wind projects in
23 Minnesota, I don't know of any wind project that's
24 ever gone forward that didn't have a fully -- full
25 PPA allocated to some utility. Do you know of any

1 instances where that's the case where a project goes
2 forward without a PPA?

3 A I don't know in detail the Minnesota projects, but I
4 am aware of some projects in Wisconsin where part of
5 the project has been without a PPA.

6 Q And that's in Wisconsin?

7 A Yes.

8 Q Do you know of any instances of utilities in
9 Wisconsin purchasing power, wind power, on an LMP
10 basis rather than a PPA?

11 A No, I don't. I'm not saying that there aren't any.
12 I just am not aware of it.

13 Q Do you know what percentage -- let's take this back.

14 Do you have any idea what percentage of
15 wind -- no. What the percentage of the eastern
16 interconnect transfer capacity would be estimated to
17 be wind?

18 A No.

19 Q And to clarify, on your direct page 4, or 130 --
20 it's 130 for me. Direct page 4, lines 21 to 23,
21 you're noting that the project is designed to provide
22 an essential 345 link that will enable approximately
23 1,200 megawatts of transfer capacity. But it states,
24 when a 345 connection is made further to the east.
25 So would it be your testimony that that 345

1 connection further to the east is necessary for that
2 1,200 megawatts of transfer capacity?

3 A What I'm talking about here is transfer capability
4 from Minnesota into Wisconsin, and I'm relying on
5 Ms. King's testimony. I believe that's what her
6 testimony is, but you should ask her when she's up.

7 Q I will. I will. And in your modeling, how did the
8 modeling address the -- address the capacity factor
9 of the project and then line losses resulting from
10 the -- well, let me go back.

11 First, would you agree that line losses
12 are -- a function of line losses is distance?

13 A I agree that line losses are caused or dependent on a
14 number of factors.

15 Q Uh-huh.

16 A One is the resistance of the power line, so the
17 conductor size matters, the voltage matters, and the
18 distance matters.

19 Q Right. And would you agree that it is a longer
20 distance from Wisconsin to Wisconsin, generally,
21 depending on where it was -- where it is located, but
22 that it's farther from Wisconsin -- from Minnesota to
23 Wisconsin than it would be from Wisconsin to
24 Wisconsin? It would be increased distance in
25 transmission from, say, Minnesota?

1 MS. AGRIMONTI: Objection. I beg you to
2 rephrase.

3 MS. OVERLAND: I'll rephrase it.

4 BY MS. OVERLAND:

5 Q Would you agree that it is further from Minnesota to
6 Wisconsin than it is from Wisconsin to Wisconsin?

7 A Depends where in Wisconsin.

8 Q Would you agree that most of the wind is located in
9 the southern part of the state?

10 A Which state?

11 Q Wisconsin.

12 A I don't know that. We're in a project up by -- well,
13 the Forward Project, and that's not really southern
14 Wisconsin.

15 Q That's true.

16 A But I think what you're trying to get at is there
17 would be losses between Minnesota and Wisconsin,
18 right?

19 Q Right.

20 A And, yes, I would agree with that.

21 Q And how did your modeling address the line losses of
22 a wind project that's, you know, say 30 percent
23 capacity factor?

24 A The capacity factor of the project isn't really
25 relevant there. What the model does is it compares

1 building wind generation, in this case Minnesota
2 where the capacity is higher, and moving that wind
3 energy to Wisconsin, where typically the wind
4 capacity factors are lower. And it looks at or makes
5 an assumption about what losses are. So if you build
6 a project in Minnesota, you have -- the model assumes
7 as a base amount 5 percent additional losses. If you
8 site it in Wisconsin, you assume zero percent
9 incremental losses. So the Minnesota projects in
10 effect are penalized by 5 percent for transmission
11 losses.

12 Q Now, didn't the Burns & McDonnell report state that
13 there are thousands of megawatts potential at a 30
14 percent capacity factor in Wisconsin?

15 A Can you direct me to where it says that?

16 Q Let me take that back. That's in your footnote, in
17 Exhibit 3 in your footnote. It's in NREL. Would you
18 agree that NREL, footnote six in your Exhibit 3,
19 states that there is wind potential of 103,000
20 megawatts at or above 30 percent capacity factor?

21 A That's what the NREL report states for -- let's see.
22 This is -- I believe this is 80 meters height, and
23 you have to keep in mind that what does Minnesota
24 have. Minnesota has almost four times that amount at
25 above 35 percent. So the two states are vastly

1 different in the capability of wind.

2 Q But do you think that given WPPI's requirements for
3 their RES, that of that 103,000 megawatts potential
4 in Wisconsin at 30 percent capacity, you might be
5 able to find some in Wisconsin?

6 A Are you assuming that the 30 percent capacity factor
7 makes it economic?

8 Q That was your -- I believe your presumption that the
9 30 percent factor was a threshold.

10 A No. That was not my presumption. I looked at what
11 is the average wind capacity factor in Wisconsin for
12 all sites above 30 percent capacity factor and used
13 that to compare with Minnesota to find a
14 differential. It's the differential between the two
15 states that is important.

16 Q That's your testimony. That's not necessarily --
17 that's your testimony. But would you agree that
18 there's 20,000 megawatts potential in Wisconsin at
19 above 35 percent capacity factor?

20 A That is what NREL says, yes.

21 Q Right. And this was also all on land wind projects;
22 is that correct?

23 A That's correct.

24 Q And does not include any potential development in
25 Lake Michigan?

1 A It does not include development in Lake Michigan --

2 Q Okay.

3 A -- which would be a higher cost.

4 Q And that would also be a higher -- and would you
5 agree that would also be logically a higher capacity
6 factor?

7 A When one looks at the economics of wind, you have to
8 consider not only the wind speed but the capital
9 costs, too.

10 Q Uh-huh.

11 A And I served on some committees in the Eastern
12 Interconnection Planning Collaborative, and those
13 committees developed assumptions for the capital
14 costs of wind onshore and offshore, and the offshore
15 assumption or cost, capital cost for wind, was more
16 than twice the onshore. So I would not consider that
17 to be a very reasonable alternative in Wisconsin
18 until that capital cost would come down.

19 Q Well, you're referring to eastern offshore projects,
20 and would you agree that most of those are, like,
21 say, the Bluewater Wind Project out in the ocean?

22 A I don't know about the project you refer to, but the
23 Eastern Interconnection Planning Collaborative used a
24 base offshore wind component or capital cost estimate
25 that the group agreed to, and then they apply a

1 regional multiplier to that. And so for Wisconsin,
2 there's a regional multiplier that brings it down to
3 what it would -- is expected to be in the Great
4 Lakes, where on the East Coast there's a different
5 regional multiplier that adjusts it to the East Coast
6 and ocean.

7 Q And would you agree that costs in Lake Michigan would
8 be lower than -- predicted to be lower than for
9 offshore in the Atlantic Ocean?

10 A I don't know that.

11 Q Is the multiplier lower?

12 A I don't recall that either. So it would be available
13 on the Eastern Interconnection Planning Collaborative
14 website.

15 Q You used the words bring the cost down for Wisconsin
16 just moments ago. Did you -- were you saying that
17 the costs for Wisconsin for offshore, meaning in Lake
18 Michigan, are lower?

19 A Than what?

20 Q Than East Coast ocean construction.

21 A I don't know.

22 Q Okay. You used the words bring -- bring the costs
23 down. Do you recall that?

24 A I don't recall exactly how I used that. Maybe we
25 could go back and read the transcript on that.

1 Q I think the transcript will be okay. I'll leave it.

2 Oh. In your testimony on page 9, you
3 refer to the Eastern Interconnection Planning
4 Collaborative, and you did just now. Did you
5 provide that Burns & McDonnell wind economic study
6 and model to any EIPC work group?

7 A No.

8 MS. OVERLAND: Thank you. No further
9 questions.

10 EXAMINER NEWMARK: Okay. Other cross.

11 CROSS-EXAMINATION

12 BY MS. RAMTHUN:

13 Q Mr. Noeldner, I'm Diane Ramthun from the Public
14 Service Commission. I have a couple questions
15 relating to your direct testimony. If you look at
16 page 5 where you talk about the effort that WPPI made
17 to quantify the value and transfer capability.

18 A Yes.

19 Q In that answer you talk about the December 15, 2011
20 MISO generation interconnection queue. Do you see
21 that?

22 A Yes, I do.

23 Q Can you explain the relationship between what you
24 talk about as the value of the transfer capability
25 and what that queue means?

1 A I was referring to the queue to show that there's a
2 real-life interest in developing wind generation to
3 the west of Wisconsin.

4 Q What is the -- what does the queue represent?

5 A It represents projects that have applied for
6 transmission interconnection in MISO.

7 Q Going to your last page. And as I understand, you
8 did an analysis to upgrade the study, the earlier
9 study, that was done on the value of transfer
10 capacity?

11 A Yes.

12 Q And your results were in the range of 130 to \$250?

13 A Yes. Per kilowatt of power transfer capability from
14 Minnesota to Wisconsin. The study was more generic
15 than that. It applied to other states as well.

16 Q The earlier study?

17 A Yes.

18 Q Is there any significance to the fact that there --
19 that you have this range of 130 to \$250?

20 A I think you're probably asking where the range comes
21 from?

22 Q Well, I was going to get to that, too, but --

23 A Okay.

24 Q Tell me about the range.

25 A Sure. Exhibit 3 lists a number of sensitivity

1 analyses that I did. Let's turn to Exhibit 3 so you
2 can watch it as I describe it here. The first line
3 on the actual data on the table shows what the model
4 produced before I customized the assumptions for the
5 latest NREL wind data to 80-meters height, and that
6 came out at a \$480 per kilowatt value number from
7 Minnesota to Wisconsin for transfer capability. The
8 second line then goes into the base case for this
9 after I customized it and used NREL's at that time,
10 or fairly recently, produced 80-meter height data.
11 And it made quite a difference for Wisconsin --
12 Minnesota to Wisconsin. It dropped to \$180 per
13 kilowatt. So that then served as my base case for
14 the analysis that I did here.

15 And below that line are some sensitivities
16 where I tried to show how sensitive the results of
17 this analysis are to different assumptions that are
18 made. So I looked at things like what about the
19 spread and capacity factor between Minnesota and
20 Wisconsin, how does that affect the results. That's
21 the next packet.

22 The one right below that is sensitive to
23 capital costs, and then I used different capital cost
24 assumptions that are available out in the planning
25 world to try and give it some credibility to where

1 these are coming from.

2 And then I looked at sensitivity to
3 fixed-charge rate and sensitive to transmission
4 losses and used the whole range produced by those
5 sensitivity analyses then to -- to come up with the
6 130 to 250 per kilowatt range.

7 Q And where is the 130 to 250 kilowatt shown on
8 Exhibit 3?

9 A If you look at the column that's in the box, 130 on
10 the low end is under sensitivity to capacity factor.

11 Q Okay.

12 A And it uses the EIPC wind data comparing -- the
13 comparison there is made between MISO West and MISO
14 WUMS. So it's not quite a Minnesota to Wisconsin
15 type of analysis, it's more the regions that were
16 modeled in EIPC, but these were the closest hits that
17 I could find in that analysis.

18 And then on the high end, the 250 is also
19 from that category of sensitivity to capacity
20 factor, and it compares what would happen if you
21 pick the best wind sites in Minnesota, in other
22 words, that are at or above a 35 percent capacity
23 factor, and compare that to above a 30 percent
24 capacity factor in Wisconsin. It widens the spread
25 of it.

1 Q Just so the record's clear, what's -- what's MISO
2 West? And also what does WUMS stands for?

3 A Okay. WUMS stands for Wisconsin-Upper Michigan
4 System. So it includes Upper Michigan in addition to
5 Wisconsin, and probably excludes western Wisconsin.
6 And then MISO West is everything west of that. There
7 is still a MISO.

8 MS. RAMTHUN: No further questions. Thank
9 you.

10 EXAMINER NEWMARK: Okay. Redirect?

11 MS. AGRIMONTI: No, Your Honor.

12 EXAMINER NEWMARK: Okay. You're excused.

13 THE WITNESS: Thank you.

14 (Witness excused.)

15 EXAMINER NEWMARK: We'll break for 45
16 minutes, which will bring us to about -- well, about
17 quarter to 1:00 let's get back.

18 (Break taken from 12:09 p.m. to 12:45 p.m.)

19 (Change of reporters.)

20 STEPHEN BEUNING, APPLICANT WITNESS, DULY SWORN

21 DIRECT EXAMINATION

22 BY MS. AGRIMONTI:

23 Q Mr. Beuning, will you please state your name and
24 address.

25 A My name is Steven Beuning. Last name is spelled

1 B E U N I N G. And my address at work is 1800
2 Larimer, Suite 1000, Denver, Colorado, 80202.

3 Q What is your current position and responsibilities at
4 the company?

5 A I'm director of market operations for Xcel Energy.
6 In that role, I work on wholesale market design as a
7 customer of the wholesale markets, and I also procure
8 our transmission service and interconnection rights
9 for our generation portfolio.

10 Q Did you prepare or have prepared at your direction
11 direct and rebuttal testimony in this matter?

12 A Yes.

13 Q And were there also five exhibits with your
14 testimony?

15 A Yes.

16 Q And are those true and correct copies of your
17 testimony and exhibits?

18 A Yes.

19 MS. AGRIMONTI: Mr. Beuning is available
20 for cross.

21 EXAMINER NEWMARK: Who do we have?
22 Ms. Overland.

23 MS. OVERLAND: No one else before me?

24 EXAMINER NEWMARK: I don't think so.

25 MS. RAMTHUN: I might have a few.

1 CROSS-EXAMINATION

2 BY MS. OVERLAND:

3 Q Good afternoon.

4 A Good afternoon.

5 Q Okay. So to clarify, the focus of your position is,
6 like, on wholesale markets?

7 A Yes.

8 Q Okay. And you're here today to talk about regional
9 market benefits, that's one of the aspects, correct?

10 A In part, yes.

11 Q Now, you also testify at page 3 that -- let me make
12 sure I got this right.

13 EXAMINER NEWMARK: We're on his direct?

14 BY MS. OVERLAND:

15 Q In your direct, right, page 3 -- or page 110, which
16 is page 3, that this project and future high voltage
17 upgrades from La Crosse to the east will reduce
18 regional energy production costs. And so then would
19 you agree that this Hampton-Rochester-La Crosse is
20 one part of a larger project necessary to provide
21 these benefits?

22 A Yes.

23 Q And the regional plan, when you say regional plan,
24 does that mean like the CapX 2020 vision plan or what
25 is the regional plan?

1 A As I used the term, I intended the Midwest ISO
2 transmission expansion plan, or MTEP as it's called,
3 and that's a forward-looking tenure plan that's
4 performed periodically by the Midwest ISO and
5 stakeholders.

6 Q And when you use that then, are you referring to a
7 particular MTEP like '08 that was regarding this one
8 or is it all of the iterations?

9 A Generally all of the iterations.

10 Q Okay. Thank you. And does it include any
11 transmission plans that are not a part of the CapX
12 2020 vision plan or the MTEP?

13 A Not for the purposes of my testimony.

14 Q Okay. Let's see, on page 3, you state that with the
15 345 project development in place -- let me get the
16 line here. Starting on line 14, "With this project
17 development in place, future high voltage upgrades
18 from La Crosse to the east will reduce regional
19 energy production costs."

20 Now, would you agree then that it is
21 necessary, with the future high voltage upgrades,
22 that that is necessary to reach those benefits of
23 lower production costs?

24 A Well, I like the characterization that Witness Hahn
25 made earlier this morning where he indicated that to

1 be part of the broader regional plan, you have to
2 connect the dots. And so in my view of his
3 statement, I'd characterize it this way. Having the
4 345 kV project that's advocated by the applicants
5 here is the -- is that process of connecting the dots
6 part of the integrated regional plan which includes
7 in the long run further developments to the east into
8 Wisconsin.

9 Q So then you would also join him in testifying that
10 it's all connected, it's one of the themes?

11 A I'd say that's the characteristics of the bulk
12 electric system, yes.

13 Q Thank you. And has any modeling been performed to
14 determine whether the 345 kV project alone without
15 future high voltage upgrades from La Crosse will
16 reduce any production costs?

17 A I don't know. It was not part of my modeling.

18 Q So what you don't know is that you don't know that
19 there is any --

20 A I don't know if any other studies were run of that
21 characterization.

22 Q And it's not a part of your testimony here?

23 A No.

24 Q But your testimony is about this project
25 specifically, is it not?

1 A Well, the study I performed or that was performed at
2 my direction for this testimony makes a comparison
3 between a 161 kV scenario, I guess it's characterized
4 as the alternative project, and a 345 kV that
5 integrates with the long-term regional transmission
6 plan including 345 kV capability further eastward
7 than Wisconsin.

8 Q When you looked at the 161 kV option, how specific
9 did you get? Meaning, like, what were the
10 characteristics of that line as far as, you know,
11 capacity, design, that you looked at?

12 A Just to clarify, are you talking about like a load
13 serving level under the 161 kV?

14 Q Well, what the normal rating would be, summer rating.

15 A I don't -- I don't know.

16 Q So you -- did you make any presumptions about what
17 the capacity of the line would be?

18 A My recollection is in the 161 kV base case, we
19 modeled the alternative scenario. So I would
20 indicate that the ratings would be consistent with
21 the project development proposed for the alternative
22 scenario. I don't recall specific line ratings
23 personally.

24 Q Would that be something Ms. King would --

25 A Possibly.

1 Q One second. Now, on page 4, you're testifying
2 regarding market efficiencies and you said least cost
3 resources. Can you be specific about what the least
4 cost resources are?

5 A Yes. I'll try. In this context, I'm not talking
6 about the least cost integrated plan that might
7 include capital decisions. So what I'm talking about
8 is given a system of resources established in an
9 operation, what's the least cost economic dispatch
10 associated with that operation.

11 Q You have some caveats as to what was not included, so
12 I want to get into that. Are you referring to, like,
13 then a bus bar cost or are you referring to things
14 that are added in including, you know, reactive power
15 or line loss? What all is included in your cost as
16 you use it?

17 A The PROMOD analysis takes whatever input conditions
18 are given as part of the case under analysis. So for
19 the given generation portfolio model, it does a least
20 cost economic dispatch of those resources. It
21 doesn't make the determination of which resources
22 should be constructed. So when I say least cost, I'm
23 only talking about least cost operation for the given
24 portfolio. It's not least cost in the sense of what
25 some people under traditional integrated resource

1 plan might consider that lifecycle cost analysis
2 associated with plant installations.

3 Q So it's a more narrow view of cost?

4 A Yes. It's an assessment of operating costs for a
5 given portfolio instead of the determination of which
6 portfolio was appropriate.

7 Q Okay. And I still want to get at would that include
8 things like line loss?

9 A Yes.

10 Q And would it include reactive power?

11 A Reactive power generally doesn't get characterized in
12 the production cost. So when we talk about the least
13 cost dispatch, I would tend to answer that question
14 no.

15 Q Okay. Are there other things that are not included
16 that I'm missing?

17 A I don't know how to answer that question.

18 Q All right. As far as things that are -- that could
19 be included, things that would be an inherent cost in
20 shipping power from Point A to Point B, like line
21 loss and the reactive power, are there tariff issues
22 that are excluded?

23 A Well, this does not cover the tariff cost associated
24 with delivery of the energy. The embedded cost of
25 the transmission system is a cost to be recovered

1 somehow, and that's considered applicable in both
2 cases.

3 Q Okay. So would a way to characterize it be that it's
4 all the cost in the production side, but it doesn't
5 include what it takes to get it from here to there?
6 Is that --

7 A I'd say it this way. It characterizes the cost
8 associated with running generation to meet load given
9 the physical limitations of the transmission system.
10 So when you have congestion represented in the grid,
11 the model does capture those impacts and shows a
12 difference in production costs that could be
13 associated with difference in transmission delivery
14 capability.

15 Q Okay. That helped. And then you raise congestion.
16 What's the impact -- would you agree that there has
17 been a decrease in demand from the, say, 2007?

18 A Of -- ?

19 Q Of peak demand.

20 A I believe by having seen testimony of other witnesses
21 that that was their information. I did not get
22 involved in the load forecasting decisions or
23 testimony.

24 Q If demand goes down, what's the impact on congestion
25 generally?

1 A It depends on which side of the constraint the demand
2 is. If the demand is on the low cost side of the
3 constraint, then a reduction in demand could increase
4 congestion costs because the export from that region
5 would be increased. So you have to look at which
6 side of the constraint the demand is occurring.

7 Q So if the demand goes down, then there is more to
8 export, so more could be exported?

9 A Unless there were congestion in which case that would
10 not be able to be exported.

11 Q Right. So, in essence, if demand goes down, that
12 frees up capacity to be exported?

13 A Only in the condition where that were -- where the
14 demands were on the dispatch down side of the
15 constraint. If the demand were on the side of the
16 constraint where additional generation was needed to
17 relieve congestion, a reduction in demand would
18 relieve the congestion.

19 Q Thank you. That helped. Okay. Moving right along.

20 Okay. On page 5, you're talking about --
21 the question is why is an energy efficient market
22 beneficial for consumers? Now -- and you're
23 testifying that it reduces the average cost of
24 wholesale energy supply. For who does it reduce that
25 cost? Who are the beneficiaries of that?

1 A Purchasers in the wholesale market.

2 Q And then that would be in this case somewhere to the
3 east, would it not?

4 A As it relates to the 345 kV alternative combined with
5 the eastward expansion under the MISO MTEP, then yes.

6 Q Okay. Thank you. And would you agree that the line
7 is coming from Wisconsin, right -- I mean Minnesota
8 into Wisconsin, correct? It's just a basic --

9 A When you say the line --

10 Q Okay. This line is coming from Minnesota into
11 Wisconsin, correct?

12 A Oh, yes.

13 Q And would you agree that Minnesota is one of the
14 lowest cost states in the midwest?

15 MS. AGRIMONTI: Objection, lowest cost
16 what?

17 MS. OVERLAND: Lowest cost electricity.

18 A I don't know.

19 Q Do you know how Minnesota costs compare with, say,
20 costs to the east with those extensions?

21 EXAMINER NEWMARK: So can you clarify?
22 The wholesale costs?

23 MS. OVERLAND: Wholesale costs.

24 A Wholesale costs? Yes. Generally the wholesale costs
25 in the MISO footprint tend to be lower in the west

1 and higher in the east. So I'd agree with Mr. Hahn's
2 characterization that the general wholesale market
3 transaction pattern in the Midwest ISO was a
4 west-to-east delivery path.

5 Q Thank you. Looking at page 7, you were talking about
6 your analysis and that it was based on an adjusted
7 production cost analysis and that it captures -- it
8 does capture system loss reductions.

9 Now, is that where you're referring to the
10 losses of -- loss savings of about 4 to 11 megawatts?

11 A Could you help me with what line that is in?

12 Q Sure. Page 7, line 13 and 14.

13 A Okay. And I'm sorry, what was the question?

14 Q Okay. About system loss reductions, would you agree
15 that system loss reductions would be in the vicinity
16 of 4 to 11 megawatts?

17 MS. AGRIMONTI: Hold on. I'm going to
18 interpose an objection. This is the second time
19 this has come up, and I don't believe it accurately
20 reflects what's in the record. So if Ms. Overland
21 could point to where she gets the 4, 7 --

22 MS. OVERLAND: I'll try to remember. It's
23 in the application. Shall I take the time to dig
24 out the application?

25 MS. AGRIMONTI: This is an important

1 point. I think we should have the loss calculations
2 accurate.

3 MS. OVERLAND: Just a minute. I'm going
4 to have to open up the application here.

5 EXAMINER NEWMARK: Why don't we go off the
6 record while we do that.

7 (Discussion off the record.)

8 EXAMINER NEWMARK: Let's get back on.

9 BY MS. OVERLAND:

10 Q This would be from the SNS study, the Supplemental
11 Needs Study, August 2011, PSC number 152526 from King
12 Exhibit 2. And do you have that?

13 A I do not have a copy of that with me. (Document
14 tendered to the witness.)

15 Q Looking at this chart, it's figure S, losses
16 performance comparison, and you have that now?

17 A I see that.

18 Q Okay. I'm not seeing, though -- just a minute.

19 MS. AGRIMONTI: Could we go off the record
20 for just a minute.

21 EXAMINER NEWMARK: Sure.

22 (Discussion off the record.)

23 EXAMINER NEWMARK: Let's get back on the
24 record.

25 BY MS. OVERLAND:

1 Q Do you see the 10-megawatt savings listed in the top
2 line of that chart?

3 A Yes, I do.

4 Q Is that -- when you're talking about system loss
5 reductions, is that the number you're referring to or
6 some number near that 10 megawatts?

7 A Yes. But let me characterize the production cost
8 analysis that I made as opposed to this losses
9 performance comparison that you're referring to. In
10 my PROMOD analysis work, we did not attempt to
11 characterize the volume of losses; but you see the
12 impact of that inherent as a total in the difference
13 between adjusted production cost in the case with the
14 345 kV line in service compared to the 161 kV
15 alternative. So whereas I -- so in the PROMOD
16 analysis, there is no evaluation of a megawatt number
17 of losses. But in the one-year simulation, you do
18 have inherent in the adjusted production cost numbers
19 a difference where that difference value includes the
20 value of loss reduction.

21 So, for example, I see in this analysis
22 here, it has a \$45 million present value on the top
23 column right-hand side for the loss reduction. So
24 this is -- in the PROMOD analysis work that I did,
25 this indicates one year's worth of that present value

1 in the difference between the two cases.

2 Q So you're focused on the dollar amount rather than a
3 megawatt value?

4 A Correct.

5 Q And it's a one-year --

6 A The PROMOD analysis was a one-year simulation, yes.

7 Q And I'll deal with the rest of this with Ms. King
8 when that comes up. Thank you.

9 Now, on that same page, lines 18 through
10 20, you testify that this project and future
11 upgrades, his word, will facilitate development of
12 wind generation resources in an area with relatively
13 strong winds on behalf of parties with RPS.

14 Now, first, how will this project
15 facilitate development of wind generation resources
16 as opposed to any type of generation resources? How
17 is it that wind generation resources are specified
18 here?

19 A I think inherent in your question is a good point,
20 which is the 345 kV project as proposed creates the
21 option for Wisconsin utilities to access many
22 different types of generation resources. The reason
23 it was phrased this way in the testimony is in
24 recognition of the fact that they do have an RPS
25 obligation; and given the fact that they need to

1 invest in order to satisfy that obligation, it would
2 make sense for them to invest an in area where their
3 per unit cost was the lowest.

4 So like Mr. Noeldner characterized, if you
5 invest a dollar in a wind generator where the wind
6 blows stronger and steadier, your per unit cost for
7 the wind energy is cheaper. And so I did phrase
8 this, as you point out, specifically for wind. But
9 in addition to enabling potential benefits to
10 Wisconsin utilities associated with wind investments,
11 the project as proposed does enable options for other
12 resources as well.

13 Q And those would be low cost resources?

14 A They would be for uncongested access to the western
15 portions of the MISO footprint.

16 Q Okay. And what fuel sources would those generation
17 resources be?

18 A I don't know. I would have to be speculating on
19 that. Having a transmission line that gives you the
20 delivery capability doesn't ordain what generation
21 portfolio decisions the individual utilities
22 themselves might make.

23 Q Would you agree that roughly 50 percent of the
24 generation was coal, generally?

25 A Generally? Do you mean in the MISO footprint or --

1 Q Coming from the -- west of the Minnesota/Wisconsin
2 border.

3 A You know, as a broad-brush number, that may be
4 reasonable. I guess to me the question is ambiguous
5 enough. I hesitate to just give that a flat-out yes.
6 But, you know, that's fair.

7 Q That's fair.

8 A Base load coal comprises a pretty good percent of
9 most utilities' portfolios in the midwest.

10 Q Okay. Well, speaking to that, let's turn to your
11 Exhibit 2, particularly the first page of it -- no,
12 page 2 of 3. Let's go to page 1 first. This was
13 done by -- well, sent to you by Greg Woodworth. Is
14 he the same Greg Woodworth that was at RPU?

15 A Yes.

16 Q Rochester Public Utilities. Looking at page 2 at the
17 bottom of the printout here, and would you agree that
18 these wind units are not in the base case?

19 A Yes.

20 Q Okay. So then when we turn to page 3, this is not
21 including any wind generation then; is that correct?

22 A On page 3?

23 Q Page 3 of 3, yes.

24 A Page 3 is a comparison between the base case which
25 does not include the wind and the incremental case

1 which does.

2 Q Okay. Now, if you look at the types of generation,
3 they're listed as -- I see steam cost, nuclear cost,
4 turbine cost and hydro cost. Now, would you agree
5 that hydro cost, that would be for hydro production
6 cost, is that -- and cost savings?

7 A I see pumped hydro maintenance cost, is that --

8 Q No, no, down below, underneath --

9 A Hydro cost, there we are. I'm looking at it. What
10 was your question again?

11 Q That that would be hydro cost savings?

12 A There is no change between the two cases.

13 Q Right. But that's -- the data item, I want to know
14 what that means, hydro cost. That would be
15 representing hydro cost savings, correct, or hydro
16 costs for hydro generation, correct?

17 A You said savings. There is no savings in the sense
18 of a delta between the two cases.

19 Q Correct. There is no delta there.

20 A Right.

21 Q That's not my question.

22 A Okay.

23 Q I want to get into what these terms mean that are
24 listed under data item. So I'd like to know under
25 hydro cost, what does that mean? That's -- hydro

1 generation is what you're referring to, correct?

2 A I would characterize it as the volume of
3 hydroelectric production in megawatt hours multiplied
4 by the locational marginal price for resource output.

5 Q Good. Okay. Then if we move to turbine cost, would
6 that then be that same definition except for, say,
7 gas turbines, combined cycle or single cycle,
8 whatever?

9 A No.

10 Q What is it?

11 A You said combined -- gas turbine, combined cycle,
12 single cycle. The turbine cost does not include the
13 combined cycle. The combined cycle resources include
14 steam production, and the steam cost component
15 captures the combined cycle operation.

16 Q Because they're producing steam?

17 A Right.

18 Q Okay. Then we go to nuclear cost. Okay. Wait,
19 wait. Turbine cost then is not combined cycle, just
20 single cycle; is that correct?

21 A Yes. Simple cycle, single cycle, yes.

22 Q Okay. Now, moving up to nuclear costs then, that
23 would be nuclear plants, nuclear generation?

24 A Yes.

25 Q Then we move up to steam costs then, would that be

1 then both combined cycle and coal combined?

2 A Yes.

3 Q And what are the percentages there?

4 A I don't know.

5 Q Would you agree that there is more -- well, first,
6 combined cycle, is that typically in the midwest
7 peaking power or intermediate?

8 A I would characterize it as intermediate.

9 Q Intermediate? And it's not base load technically in
10 the midwest; is that correct?

11 A Generally not.

12 Q Okay. And the coal is not typically base load; is
13 that correct?

14 A Yes.

15 Q And that would run more often than the gas; is that
16 correct?

17 A Yes.

18 Q And would you agree that the majority of the savings
19 we're discussing in that line item would be coal
20 savings as opposed to gas, it would be combined, but
21 it would be primarily coal?

22 A No. Actually, I'd say it's just the other way around
23 in fact. The savings in a regional wholesale market
24 come by dispatching down the highest priced units
25 first. So the combined cycle units generally operate

1 at a higher cost than the coal and would tend to be
2 dispatched lower first rather than the coal.

3 Q So the idea is to not dispatch the higher priced
4 gas --

5 A Yes.

6 Q And so if you're not dispatching the higher priced
7 gas, doesn't that mean that you are dispatching the
8 lower priced coal?

9 A No. In -- as it relates to this case here -- do you
10 mean as it relates to this case here or just in
11 general?

12 Q Just generally, whichever will give me a yes.

13 A Okay. Let me give you a yes qualified in the
14 following way. The Midwest ISO's energy market
15 operates in general to reduce economic dispatch cost.
16 So that the -- you know, the most efficient
17 optimization lowers the high priced generation first.
18 So that's a general characteristic of regional
19 wholesale markets. In this analysis that we've done
20 here where we've added wind, the wind displaces
21 higher cost generation, and that displacement occurs
22 first with the highest cost resources.

23 Q And so that would then occur more with gas?

24 A Yes.

25 Q And what about the coal, the coal -- how does the

1 coal relate in your analysis to wind cost?

2 A Higher.

3 Q Coal is higher?

4 A Yes.

5 Q Is that because of fuel cost?

6 A Once you've invested in wind, the generation output
7 is essentially treated as a zero cost energy supply
8 resource, and so the whole resource with a fuel cost
9 associated with burning the coal would be backed down
10 prior to curtailing the wind output.

11 Q Then in your model, is that included under, like,
12 variable O and M cost or fixed O and M cost, fuel
13 cost? Let me rephrase that. Are the fuel costs
14 included in variable O and M and fixed O and M?

15 A Not -- no, not generally. As I understand this
16 analysis, that's not the case. This would relate to
17 costs associated with generating plants that would be
18 incurred on the basis of their volume of production.
19 So, for example, the maybe seals or gaskets that
20 might wear out faster on a per megawatt hour per hour
21 use basis. The cost associated for the fuel with the
22 steam plants would be in the steam bucket.

23 Q It would. And even like a long-term 20-, 25-year
24 contract for coal?

25 A This reflects the operating costs for the production

1 cost simulation. It doesn't reflect the committed
2 costs for a long-term fuel supply contract. So to
3 the extent the O and M -- I'm sorry, to the extent
4 the fuel cost at the plant for that hour that it was
5 operated will reflect it, it would be shown here.
6 This -- it wouldn't reflect the long-term 25-year
7 costs.

8 Q So that would not be in the fixed O and M costs?

9 A That's not my understanding.

10 Q And would you agree that the majority of these cost
11 savings are in the steam cost category?

12 A Yes, about \$44 million of the 50 -- approximately 58
13 million total were in the steam category.

14 Q Okay. Now, let's see. Now, on page 8, you're again
15 testifying, line 12 --

16 A Excuse me, is this on my direct?

17 Q Page 8 of your direct, yes. You're again testifying
18 about the 345 project combined with future eastward
19 grid expansion. So was there any analysis of the 345
20 project alone?

21 A No.

22 Q So you can't say and you're not testifying about what
23 benefits this project alone might provide; is that
24 correct?

25 A That's correct.

1 Q Now, on page 1, you're testifying about transfer from
2 the west in furtherance of Wisconsin -- I'm sorry,
3 page 1 of your rebuttal, about furtherance of
4 Wisconsin's renewable energy policy goals. Are you
5 aware of any policy considerations for purchasing
6 wind energy outside of Wisconsin for Wisconsin?

7 A No.

8 Q Did your -- I'll leave it at that. Okay. That's
9 self-explanatory. Just a minute.

10 Oh, okay. Looking at the La Crosse plant
11 and oil storage capacity, page 4 of your rebuttal.
12 If the oil storage capacity at the plant is at
13 3 million gallons, how long a time period would that
14 last of constant running of that plant?

15 A I'm sorry, I don't have a calculator here, but if it
16 were --

17 Q I'm a math idiot, I'm sorry.

18 A The consumption --

19 Q Would you agree that if the storage capacity is
20 around 3 million gallons, that you could run this
21 plant for, say, a couple hours in a day without
22 depleting that storage capacity?

23 A Well, you would deplete it to the extent you consume
24 the fuel, yes.

25 Q So would you agree that if it's used for the 60 or 50

1 hours a year, that it would not require two
2 truckloads every 70 minutes or 40 truckloads of fuel
3 per day, that it would -- if it's used for -- let me
4 rephrase.

5 If it's used for peaking, that the storage
6 capacity could handle that such that it would not put
7 a strain on truck traffic, delivering the loads every
8 70 minutes, that would not be necessary?

9 MS. AGRIMONTI: Objection, vague and
10 ambiguous.

11 MS. OVERLAND: I can rephrase.

12 Q Would you agree if it's only used for peaking power,
13 given the storage capacity that there is, that there
14 would be no need to schedule trucks every 70 minutes
15 for that peaking power, that it could be scheduled
16 over a more -- a longer time?

17 A I think your question is asking about buffering.

18 Q Thank you, that's a good word.

19 A To the extent the fuel is consumed, it has to be
20 replaced. For each gallon you consume, you have to
21 truck a gallon in. So it's a given that you'd have a
22 similar amount of truck traffic to replace the
23 consumption. I think you're trying to make the point
24 that with some storage capacity, could there be some
25 modulation to the truck deliveries? Potentially.

1 Q And would you agree 3 million gallons is a storage
2 capacity that would allow some buffering?

3 A Yes.

4 EXAMINER NEWMARK: I just wanted to ask a
5 follow-up there. The comment that you referred to
6 in page 4 of your testimony, does that account for
7 any buffering, any capacity of storage, or is this
8 like an as-needed delivery of the oil?

9 THE WITNESS: It's a trucking at the rate
10 of consumption analysis. And it assumes both units.

11 EXAMINER NEWMARK: So if you're starting
12 on 3 million gallon capacity, you'd want to keep --
13 is it the company's policy to keep it exactly at
14 3 million or is there an amount that you would let
15 it fall?

16 THE WITNESS: I don't know enough about
17 our fuel storage policies to answer that question.

18 EXAMINER NEWMARK: Okay.

19 BY MS. OVERLAND:

20 Q Do you happen to know if there are any of the
21 witnesses who would?

22 A I don't believe so.

23 Q Okay. Here is another -- just a simple question. On
24 page 4 on line 25, you do reference 60 garbage
25 trucks. Do you know if those are literally garbage

1 trucks or if those are those semis full of garbage?

2 A I think when we were drafting this, we didn't draw a
3 distinction between that. I don't know the answer to
4 your question.

5 Q Because the second one follows 15 semi trucks with
6 wood waste, I just wanted to -- don't know?

7 A No. I think the point there is to characterize the
8 wood waste separate from the garbage, not necessarily
9 the style of truck.

10 Q Okay. Are you aware that garbage is trucked in with
11 semis to La Crosse down 61 through Red Wing?

12 A It's my understanding they have a refuse-derived fuel
13 processing facility there.

14 Q But you're not familiar with what types of trucks?

15 A I've seen trucks hauling material to refuse-derived
16 facility processing places before. But I -- in the
17 case of French Island in particular, I'm not familiar
18 with what style of trucks are used there.

19 Q Okay. I think we're almost done.

20 Okay. I have no further questions.

21 EXAMINER NEWMARK: All right. Other
22 cross?

23 CROSS-EXAMINATION

24 BY MS. RAMTHUN:

25 Q Mr. Beuning, I have a question relating to your

1 Exhibit 3. Do you have that in front of you?

2 A Yes.

3 Q If you look at the bottom of page 3, you have a
4 sentence there stating that NSPW has allocated
5 1.9 million in 2015 for the repair of the rotor. Do
6 you see that sentence?

7 A Actually, excuse me, I don't. I thought you meant
8 Exhibit 3 on my direct, which is just a one-page
9 spreadsheet. Am I looking at the wrong document
10 maybe?

11 Q I'm looking at Exhibit 3 which is the NSPW's
12 responses to CUB's first set of discovery --

13 A Sorry, let me catch up to you here.

14 EXAMINER NEWMARK: Is there another number
15 on there? An ERF number?

16 THE WITNESS: I see it on Exhibit 5.

17 BY MS. RAMTHUN:

18 Q Oh, I'm sorry, Exhibit 5.

19 A I'm with you now.

20 Q Wrong glasses.

21 A What page are you on?

22 Q I was on page 3.

23 A Okay. I'm catching up. Got it.

24 Q Do you see the sentence on the bottom NSP is
25 constantly forecasting?

1 A Oh, no, I guess I was on the wrong page. Sorry.

2 EXAMINER NEWMARK: What page?

3 MS. RAMTHUN: It's Exhibit 5, page 3.

4 EXAMINER NEWMARK: Thanks.

5 A Now I have it. There is more than one page 3. That
6 threw me for a loop. Okay. NSP is constantly
7 forecasting, is that the sentence?

8 BY MS. RAMTHUN:

9 Q Yes.

10 A Yes.

11 Q What's the 1.9 million referring to, which unit?

12 A That's French Island 3 with the field rotor.

13 Q So does that mean French Island 3 is under
14 consideration for repair?

15 A Yes.

16 Q And does that mean it may not necessarily be
17 mothballed indefinitely?

18 A Yes.

19 MS. RAMTHUN: No further questions.

20 EXAMINER NEWMARK: Okay. I just had a
21 quick question for you, sir. You mentioned, we just
22 saw in Ms. Overland's questions sentences about
23 using the project to transfer or to bring in wind
24 generation into Wisconsin. And that's related to
25 Wisconsin's RPS requirement. So the -- and I guess

1 what I gather from that is that there is a demand in
2 Wisconsin for utilities to purchase wind power
3 because of the RPS and this would have helped that?

4 THE WITNESS: Exactly.

5 EXAMINER NEWMARK: Okay. And I was just
6 wondering, do you know if -- as it exists right now,
7 can Wisconsin utilities satisfy the RPS through
8 purchasing Manitoba hydropower?

9 THE WITNESS: I'm not familiar with the
10 details of that.

11 EXAMINER NEWMARK: You don't know that?

12 THE WITNESS: No.

13 EXAMINER NEWMARK: Let me see if I can ask
14 somebody else that. But basically the idea is it's
15 the demand for RPS requirement energy that would
16 help in this line?

17 THE WITNESS: Yes.

18 EXAMINER NEWMARK: Okay. Go ahead.

19 REDIRECT EXAMINATION

20 BY MS. AGRIMONTI:

21 Q Mr. Beuning, Ms. Ramthun just asked you a couple of
22 questions about French Island and budgeting. Do you
23 recall that?

24 A Yes.

25 Q Are you familiar enough with the budgeting process at

1 NSP to provide some information about how the budget
2 process relates to commitments to capital projects?

3 A It's not necessarily a given. So to the extent we're
4 forecasting reconstruction activity to take place on
5 the mothballed unit doesn't necessarily mean that it
6 would occur. And as I indicated in the testimony, we
7 do plan to revisit that decision and forecast around
8 the end of this year.

9 Q And so when the company is looking at its generation
10 units in its current status, it may forecast out a
11 couple of years in budgeting, but there still
12 continues internal review about whether to change the
13 status of that unit?

14 A That's a good point. These units are 38 years old
15 and very expensive. I know there is the question of
16 whether it's throwing good money to uses that could
17 instead be put somewhere more efficient in terms of
18 budgeting and expenditure for refurbishing these
19 units.

20 Q And that analysis is something that will be done in
21 the future?

22 A That's correct.

23 MS. AGRIMONTI: Thank you. That's all I
24 have.

25 EXAMINER NEWMARK: You're excused.

1 Thanks.

2 (Witness excused.)

3 EXAMINER NEWMARK: Is Ms. King next?

4 MS. AGRIMONTI: Yes.

5 AMANDA KING, APPLICANT WITNESS, DULY SWORN

6 DIRECT EXAMINATION

7 BY MS. AGRIMONTI:

8 Q Ms. King, would you please state your name, your
9 address and describe what you do for NSP.

10 A I'm Amanda King, K I N G. My address is 414 Nicolet
11 Mall, Suite MP08, and that's in Minneapolis, 55044.
12 And I am a senior transmissions planning engineer in
13 the transmission planning department at NSP.

14 Q Did you prepare or have prepared at your direction
15 prefiled testimony in this case?

16 A I have.

17 Q And do you have copies of your direct supplemental,
18 direct -- second supplemental direct and rebuttal in
19 front of you?

20 A I do.

21 Q And were those prepared by you or at your direction
22 specifically?

23 A They were.

24 Q And Exhibits 1 through 14, are those also your
25 exhibits?

1 A They are.

2 Q And are true and correct copies of what was filed in
3 this docket?

4 A They are.

5 MS. AGRIMONTI: Ms. King is available for
6 cross-examination.

7 EXAMINER NEWMARK: Okay. Who has cross?

8 CROSS-EXAMINATION

9 BY MS. OVERLAND:

10 Q Good afternoon, Ms. King.

11 A Hello.

12 Q Okay. If you look at page 11 of your direct where
13 you're discussing Dairyland's plan to rebuild the
14 Genoa-La Crosse line.

15 A Line 22?

16 Q Right. And that's the same as the Q1, right?

17 A No, it's not.

18 Q No, that's a different -- Genoa-La Crosse, never
19 mind. Let's go somewhere else.

20 MS. AGRIMONTI: I know that you moved the
21 mic, Your Honor, and it doesn't appear to be
22 working. Is it about proximity to the mic and the
23 speaker or what can we do --

24 EXAMINER NEWMARK: Let's go off the
25 record.

1 (Discussion off the record.)

2 EXAMINER NEWMARK: Let's get on the
3 record.

4 BY MS. OVERLAND:

5 Q All right. I'm trying to narrow this down to things
6 we haven't covered already in the last few years,
7 so...

8 And I have Mr. Noeldner's testimony filed
9 in with yours. Just a minute. Oh, I have a question
10 about the -- I'm thinking it's the same as an
11 operating guide for the Keen Eau Claire Arpin
12 (phonetic) that you testified about. But it's not
13 called an operating guide. So I'm looking for that.
14 Just a minute.

15 EXAMINER NEWMARK: Let's go off the record
16 for a minute.

17 (Discussion off the record.)

18 EXAMINER NEWMARK: Let's get on the
19 record.

20 MS. OVERLAND: I have no questions. This
21 speaks for itself.

22 EXAMINER NEWMARK: So you have no
23 questions?

24 MS. OVERLAND: I have no questions. I'm
25 happy with the studies.

1 EXAMINER NEWMARK: All right. Any other
2 cross?

3 CROSS-EXAMINATION

4 BY MS. RAMTHUN:

5 Q Just give me a second. Ms. King, I'm Diane Ramthun
6 from the Public Service Commission. I have a couple
7 questions about your load forecasts.

8 First of all, I understand that you use
9 non-coincident peak load in making the forecast for
10 the La Crosse area?

11 A Yes. The distribution planners put together the
12 actuals for the years in the past for the
13 non-coincident peak loads.

14 Q And do you disagree with using coincident peak loads
15 to make the forecast?

16 A It's standard practice for us when we're setting a
17 small area to look at what could be the absolute
18 highest peak that could be to be sure for NERC
19 compliance that we're able to meet those levels. The
20 potentials levels.

21 Q Are you saying you disagree with the use of
22 coincident peak load for load forecasting purposes?

23 A It would depend on the scope of the study you were
24 doing. For a small area, and we have some numbers in
25 my testimony, I can find it here, where the 2010

1 coincident peak level that was recorded on a peak day
2 in 2010 was within one megawatt of our actual
3 non-coincident, so it was less than a percent
4 difference. We feel it was pretty accurate.

5 Q So depending on the area, the scope of the study, the
6 geographical area being studied, you might use
7 coincident peak load?

8 A As we stated, La Crosse, the peaks happen at a
9 similar time. It's an area that peaks together
10 generally. So for this area I believe it was the
11 correct thing to do.

12 Q Did you hear my questioning of Mr. Hahn about the
13 historical load growth rate between the year 2001 and
14 2010?

15 A Generally, yes.

16 Q Do you recall that the historical rate between that
17 time was one percent?

18 A Yes. I recall him saying that.

19 Q And as I understand, the applicants have forecast a
20 1.46 percent growth rate for the La Crosse area for
21 the years 2011 to 2020?

22 A Yes, in the way that's developed, the distribution
23 planning engineers have a very local area that they
24 work on and they're very familiar with the area, and
25 it was not a 1.46 uniformly across all the

1 substations. That's the average. And each sub was
2 forecast based on the distribution planners'
3 knowledge of that location, where one sub they notice
4 some growth coming or development in the area, where
5 some other ones may have lower. So there is a lot of
6 individual work put into each substation. For
7 Dairyland, they do that by co-op.

8 Q So is that your explanation for the bump-up in the
9 forecast?

10 A It is. It's to the best of their knowledge of what
11 was currently happening and will be happening in that
12 specific area by substation.

13 MS. RAMTHUN: I don't have any further
14 questions. Thank you.

15 EXAMINER NEWMARK: All right. Any other
16 cross? Okay. Redirect?

17 MS. AGRIMONTI: No, Your Honor.

18 EXAMINER NEWMARK: You're excused.

19 (Witness excused.)

20 MS. AGRIMONTI: Mr. Kline.

21 DANIEL P. KLINE, APPLICANT WITNESS, DULY SWORN

22 DIRECT EXAMINATION

23 BY MS. AGRIMONTI:

24 Q Mr. Kline, what is your full name and where do you
25 work and what are your job responsibilities?

1 A My name is Daniel Kline and I work for Xcel Energy
2 Services. Did you ask about my job responsibilities?

3 Q Yes, sir.

4 A My job responsibilities are primarily I deal with
5 tariff administration and compliance across all three
6 operating companies, and that includes working in the
7 regional stakeholder processes in all three operating
8 companies including MISO in the NSP region and
9 southwest power pool and then also west connecting in
10 the west.

11 Q Did you prepare rebuttal testimony with two exhibits
12 for this proceeding?

13 A I did.

14 Q And do you have copies of those with you?

15 A I do.

16 Q And are those true and correct copies of what was
17 filed in this docket?

18 A They are.

19 MS. AGRIMONTI: The witness is available
20 for cross.

21 CROSS-EXAMINATION

22 BY MS. OVERLAND:

23 Q Good afternoon, Mr. Kline.

24 A Good afternoon.

25 Q Let's see, looking at your rebuttal, starts out

1 talking about the large planning work that you've
2 been working on. Have you been involved with the
3 JCSP or the -- well, the JCSP planning?

4 A The -- by JCSP, I'm assuming you mean Joint
5 Coordinated System Plan.

6 Q That's correct.

7 A It was a plan that was done by a number of planning
8 authorities a few years ago. I did attend a couple
9 of stakeholder meetings; but primarily most of the
10 work, quote/unquote, in that study was performed by
11 the MISO SVP, the New York ISO, those, and the
12 individual utilities' input was through just a normal
13 stakeholder process.

14 Q And then have you done any work with EIPC which is
15 the Eastern, what, Interconnect --

16 A Eastern Interconnection Planning Cooperative. Again,
17 I have attended a small number of stakeholder
18 meetings. I am not the primary person in my company
19 responsible for that effort, though.

20 Q Thank you. Now, on page 3 -- no, on page 3 in the
21 middle of the page, lines 15 through 17 of your
22 rebuttal, you state that moving the interconnection
23 point a considerable distance could be inconsistent
24 with the regional transmission plans. Can you
25 explain that.

1 A The purpose of this particular statement is to
2 outline that MISO has a regional transmission
3 planning process that considers input from a variety
4 of stakeholders. And interconnecting the proposed
5 project in this docket with a future extension to the
6 east at some other location would be inconsistent
7 with that -- with what that process has identified to
8 date.

9 Q Who cares? Why does it matter?

10 A Why does --

11 Q Why does it matter to -- well, to you in your
12 testimony, why does it matter where it connects?

13 A Where --

14 Q Are you talking a -- is it an electrical reliability
15 problem? Is it a geographic issue? What is the --
16 is it a jurisdictional issue? Why does it matter
17 where the connection eastward happens?

18 A Well, I would say there are a number of reasons why
19 it matters where it happens. But to be general, the
20 benefits of -- the benefits to the system of the
21 proposed project have been studied and detailed based
22 upon a certain configuration. And to the extent that
23 configuration changes, it's going to affect the
24 benefits that are actually received from the project.

25 Q I'll come back to that as we go forward. On page 5,

1 you're talking about years of joint planning work for
2 a second Twin Cities to Madison transmission path.
3 So let's go way back in history, and were you
4 involved in the WIRES project -- the WIRES report?

5 A I personally was not.

6 Q So you're bringing that up as company perspective
7 that the company was involved in that?

8 A Yes.

9 Q And at that time, was the plan during the WIRES
10 report, was that a step towards a second Twin Cities
11 to Madison transmission path? Is that how we're
12 viewing WIRES?

13 A WIRES was a survey and included some detailed study
14 work of a number of transmission alternatives
15 intended to address constraints between Minnesota and
16 Wisconsin.

17 Q And so it had many options; is that correct?

18 A There were several options that were studied.

19 Q Okay. And as you testify, one of those was from
20 Prairie Island going east; is that correct? That
21 would be on page 6, line 12 specifically.

22 A Yes.

23 Q And so is it your testimony then that that -- the
24 Prairie Island line to Columbia is essentially the
25 same electrical function as Hampton to Madison?

1 A A line from Prairie Island to Columbia from -- it
2 would not serve exactly the same electrical function
3 because it would not take into account the
4 reliability benefits to the La Crosse area. However,
5 from a regional perspective, the line from Prairie
6 Island to Columbia would be substantially similar to
7 the Hampton to La Crosse line in combination with a
8 line from La Crosse to the Madison area.

9 Q Okay. And would you agree that the Hampton to
10 Rochester to La Crosse connects with the Prairie
11 Island to Blue Lake line near the Hampton substation?

12 A Could you repeat the question.

13 Q Sure. I might be able to give you a little
14 geographic help here.

15 Would you agree that the Hampton to
16 Rochester to La Crosse line as presented connects
17 with the Prairie Island to Blue Lake line near the
18 Hampton substation or at the Hampton substation?

19 A The Hampton to Rochester to La Crosse line has as its
20 western or northernmost endpoint, depending on how
21 you view it, a termination that is near Prairie
22 Island that connects to an existing line from the
23 west and an existing line that extends from Prairie
24 Island into the Twin Cities network.

25 Q So would that be the Prairie Island-Blue Lake line or

1 am I misidentifying the substations?

2 A I believe you may be misidentifying. However, there
3 are -- there's -- basically there's the Brookings
4 line, which is about to commence construction, and
5 then an existing -- today existing transmission line
6 from Prairie Island into the Twin Cities network.

7 Q And it connects with that, correct?

8 A Yes.

9 Q And then would you agree that the Hampton to
10 Rochester-La Crosse line also connects near Zumbrota
11 with the Prairie Island-Byron line going to the
12 south?

13 A Yes.

14 Q So it is electrically connected to Prairie Island in
15 two ways; is that correct? Both --

16 A Yes.

17 Q -- of the... In your testimony on page 6, you
18 reference the CapX 2020 vision -- let me go back a
19 second. The WIRES report, is the WIRES report the
20 same report that we've been referring to in the
21 NoCapX Exhibit 13?

22 MS. AGRIMONTI: The witness doesn't have
23 Exhibit 13.

24 A I don't have Exhibit 13.

25 MS. OVERLAND: Right, doesn't have it.

1 Q Well, we've been talking about a WIRES report that
2 was included with the FERC complaint, and I want to
3 know if that is the same -- let me rephrase.

4 NoCapX has an Exhibit 13 that originated
5 in -- that came from the FERC filings of which an
6 affidavit of yours was one of the things and another
7 thing was the WIRES report. And so is that WIRES
8 report the WIRES report you're referring to? Does
9 that make sense?

10 A I think it does.

11 EXAMINER NEWMARK: If you can give a
12 citation that he can confirm possibly. Is that a
13 way to go with that?

14 MS. OVERLAND: Well, then -- Xcel's FERC
15 filing is where I took it from. Do you mean like in
16 docket EL-12-128?

17 EXAMINER NEWMARK: Well, he cites to it in
18 his testimony.

19 MS. OVERLAND: Right. He cites to it in
20 his testimony on page 6, lines 11 through 12, and
21 also references the concept, but not the specific
22 WIRES elsewhere. But page 6, lines 11 and 12.

23 EXAMINER NEWMARK: And you intend for
24 Exhibit 13 to be that document that he's
25 referencing?

1 MS. OVERLAND: Right. And to my knowledge
2 it is, it was taken from the Xcel --

3 EXAMINER NEWMARK: So to the extent it
4 isn't, people can -- parties can object when they
5 see it. So we'll just -- we'll leave it there, or
6 do you need more verification?

7 MS. OVERLAND: Well, I'd just like --
8 well --

9 EXAMINER NEWMARK: Unless he sees it, I
10 don't know how he can verify it. So --

11 MS. OVERLAND: Okay. I'll just leave it.

12 Q And in page 6 further down, you reference 2005 CapX
13 2020 vision study. Would -- do you agree that
14 another name for that is the CapX 2020 technical
15 update identifying Minnesota's electrical
16 transmission infrastructure needs, October 2005?

17 A Yes, I believe that is the longer, perhaps more
18 formal name for it.

19 Q Okay. Thank you. That is what we have in NoCapX
20 item 5.

21 On page one of that study -- off the top of
22 your head, will you agree that -- 2005 CapX vision
23 study, will you agree that the CapX vision study was
24 predicated on a 2.49 percent annual growth rate?

25 A I can't recall the precise growth rate number.

1 Subject to check, sure.

2 Q Sounds about right. Okay. And do you agree that the
3 vision study, CapX vision study included many of the
4 lines that were developed in WIRES?

5 A I think I need you to be more specific.

6 Q Okay. Well, would you agree that the CapX vision
7 study takes the WIRES report without Arrowhead and
8 Chisago, which are already built or being built, and
9 utilized those -- some of the projects proposed in
10 WIRES? Let me go back.

11 Would you agree that the CapX vision study
12 includes many transmission lines, or a number of?

13 A There were a number of transmission alternatives
14 investigated in the vision study, the CapX vision
15 study.

16 Q And would you agree that Phase 1 and subsequent
17 phases includes many transmission lines that were
18 conceptually included in the WIRES study?

19 A No.

20 Q Is the hang-up many? Let me try this again. Would
21 you agree that there are -- some of the lines in the
22 CapX vision study were conceptually part of the WIRES
23 study?

24 A In aggregate, there were common facilities between
25 the WIRES study and the CapX vision study. I do not

1 believe that Phase 1 aligned with any of the specific
2 facilities in the -- Phase 1 of the vision study
3 aligned with any of the specific facilities in the
4 WIRES study.

5 Q And so you're thinking it was subsequent phases of
6 the vision study that might have had some overlap?

7 A I think that in aggregate there was some overlap.

8 MS. OVERLAND: Okay. That's good enough.
9 I have no further questions.

10 EXAMINER NEWMARK: Okay. Other cross? Go
11 ahead.

12 CROSS-EXAMINATION

13 BY MR. LORENCE:

14 Q Mr. Kline, John Lorence from the Commission. A
15 couple of questions with respect to your testimony.
16 In your testimony, particularly at page 5 -- I'm
17 sorry, on page 4, you I guess take task with ATC's
18 suggestion of various interconnection points. And if
19 I read your testimony correctly, it -- primarily
20 because you state it was not part of the planning
21 process to have these alternative interconnection
22 points. Is that accurate?

23 A Yes, that's correct.

24 Q You're not testifying, or are you, that there is an
25 engineering or an electrical reason why these

1 interconnection points would not work?

2 A My testimony is that there is an
3 engineering/electrical reason why the current
4 interconnection points were designated. But without
5 having -- without the suggested new interconnection
6 points having been through the regional process, it
7 would be premature for me to pass judgments on them
8 specifically.

9 Q When you say the current interconnection points have
10 already been approved, where were they approved
11 specifically?

12 A The Hampton to Rochester to La Crosse 345 kV project
13 has been designated to end at -- well, at the time it
14 was designated to be North La Crosse substation, that
15 has since taken on the name Briggs Road substation,
16 and the La Crosse to Madison line was designated to
17 begin at Briggs Road substation.

18 Q In what report or in what study?

19 A In the Midwest ISO transmission expansion plan for
20 2011.

21 Q And do they specifically identify the Briggs Road
22 substation in there or do they just say north of
23 La Crosse?

24 A They include termination equipment at Briggs Road
25 substation that's necessary to terminate the line in

1 the La Crosse area. So by my estimation, that's a
2 designation of Briggs Road as the termination point.

3 Q And in your exhibit, you have the summary from the
4 MTEP 08, but you don't have any information from
5 MTEP 11; is that correct?

6 A Yes, I believe that's correct.

7 Q Do you know specifically where in MTEP 11 that
8 endpoint is designated?

9 A It is in -- it would be in Appendix A to MTEP 11.

10 Q And at this point if a different -- if a route --
11 one -- if -- I'm sorry. If one of the eastern routes
12 were chosen as opposed to the one down the Q1 line in
13 its variations, you're testifying that the
14 interconnection point would still be the Briggs Road
15 substation, correct?

16 A Yes. Based on the work performed to date, Briggs
17 Road is and remains the appropriate termination point
18 for a line between La Crosse and Madison.

19 Q But that's not to say that there could not be a
20 different interconnection point; is that correct?

21 A It is certainly possible for the interconnection
22 point to be moved.

23 MR. LORENCE: Thank you.

24 MS. AGRIMONTI: Your Honor, applicants
25 would request a late filed exhibit for Appendix A to

1 MTEP 2011 based on the questioning from Commission
2 staff.

3 EXAMINER NEWMARK: Is that not something
4 that's coming in?

5 MS. OVERLAND: Well, it's item 10.

6 EXAMINER NEWMARK: Okay. That may not be
7 part of the record precisely, and you'd like it part
8 of the record, the appendix itself?

9 MS. AGRIMONTI: I would like it -- let me
10 rephrase that. The excerpt pages from Appendix A
11 that Mr. Kline will identify as relevant to his
12 testimony about the interconnection point of Briggs
13 Road.

14 EXAMINER NEWMARK: Okay. And do we do
15 that now, the page numbers or -- ?

16 MS. AGRIMONTI: I can't identify the page
17 numbers right now. I can do so tomorrow.

18 EXAMINER NEWMARK: Okay. Well, that's
19 fine with me. Any objections to that?

20 MR. CULLEN: So we're just talking about
21 putting in as a delayed exhibit the specific
22 portions of Appendix A of MTEP 11 that relate to the
23 Badger Coulee MVP, the western termination point for
24 that project?

25 EXAMINER NEWMARK: That's my

1 understanding.

2 MR. CULLEN: For the La Crosse to Madison
3 line?

4 EXAMINER NEWMARK: That would be my
5 understanding. Is that --

6 MS. AGRIMONTI: I'm sorry, I was having
7 two conversations.

8 MR. CULLEN: I think we're talking about
9 putting in as a delayed exhibit just those parts of
10 Appendix A that relate to the western termination
11 point of the La Crosse to Madison project, correct,
12 since that's what Mr. Lorence asked about?

13 MS. AGRIMONTI: Yes.

14 MR. CULLEN: Okay. With that
15 clarification, we're fine.

16 EXAMINER NEWMARK: Okay.

17 MS. OVERLAND: Your Honor, I was thinking
18 it might be useful to have the same narrow pages of
19 Exhibit A in the MTEP 08 that refer to this project
20 coming in to La Crosse.

21 MS. AGRIMONTI: We can certainly provide
22 that.

23 EXAMINER NEWMARK: Okay. That's fine.
24 And so will Mr. Kline be able to identify those
25 pages tomorrow then?

1 MS. AGRIMONTI: (Nodding.)

2 EXAMINER NEWMARK: Any objections?

3 Well -- well, I guess we can hold off on that and
4 see what he brings. But we'll mark that Kline 3.
5 Any idea how many pages we would be considering?

6 MS. AGRIMONTI: I'm sorry, I do not.

7 Mr. Kline, do you have a sense of how many pages
8 that would be?

9 THE WITNESS: It would be probably,
10 depending on how it's excerpted, no more than two
11 pages per year.

12 EXAMINER NEWMARK: Okay. Well, you can
13 probably just do that all in one exhibit then.

14 MR. LORENCE: Your Honor, could I ask
15 actually that it be two exhibits because I only
16 asked about MTEP 11 which was -- I think we agreed
17 would be Exhibit 3. I didn't ask anything about
18 MTEP 08. Ms. Overland has asked for, but it wasn't
19 part of my discussion. So I'd like to reserve
20 seeing it before agreeing that it be put in as a
21 delayed exhibit.

22 EXAMINER NEWMARK: Okay. We can separate
23 those. So make it 3 and 4. So 3 will be MTEP 11,
24 those various pages, and 4 will be MTEP 08.

25 (Kline Exhibits 3 and 4 designated as

1 delayed exhibits.)

2 EXAMINER NEWMARK: Okay. More redirect?

3 MS. AGRIMONTI: No, Your Honor.

4 EXAMINER NEWMARK: No? Okay. You're
5 excused.

6 (Witness excused.)

7 MS. AGRIMONTI: We call Mr. Lehman.

8 PAUL J. LEHMAN, APPLICANTS WITNESS, DULY SWORN

9 DIRECT EXAMINATION

10 BY MS. AGRIMONTI:

11 Q Mr. Lehman, what is your position and
12 responsibilities at Northern States Power Company?

13 A My name is Paul J. Lehman, L E H M A N. And my title
14 is manager of regulatory administration. My job
15 duties entail regulatory requirements for
16 transmission projects for Xcel Energy.

17 Q Did you prepare rebuttal testimony and Exhibits 1
18 through 3?

19 A I did.

20 Q And do you have those before you?

21 A I do.

22 Q Are they true and correct copies of what was in the
23 record?

24 A They are.

25 MS. AGRIMONTI: Mr. Lehman is available

1 for cross-examination.

2 EXAMINER NEWMARK: Okay.

3 CROSS-EXAMINATION

4 BY MS. OVERLAND:

5 Q Good morning, Mr. Lehman -- afternoon.

6 A Afternoon.

7 Q Here we go. On your page 3, you are talking about
8 percentages of ownership interest. Would you agree
9 that all these -- any percentages or claims of
10 ownership interest are prospective and are not in
11 existence at this time?

12 A The percentages that are in place right now are
13 development percentages. They are not final
14 ownership percentages, that is correct.

15 Q Right. And so then the company has not declared
16 what -- the companies have not declared what the
17 ownership interests will be when this is built,
18 correct?

19 A To the best of my knowledge, they have not for this
20 project, that's correct.

21 Q And would you agree that the Minnesota Public
22 Utilities Commission as an order point for the
23 certificate of need require that the utilities
24 declare ownership interest in the projects, the three
25 projects that were included in that certificate of

1 need?

2 A That is a compliance requirement of the certificate
3 of need that was granted for the project in the other
4 CapX 345 kV projects, that's correct.

5 Q And was that 2009?

6 A It was I believe spring of 2010. But I lose track of
7 time, so it may have been '9, but it comes to mind
8 '10, but...

9 Q Okay. And as of today, that's not been identified?

10 A What has not?

11 Q The ownership interest has not been identified?

12 A The ownership agreements have not been signed to my
13 knowledge.

14 Q Okay. I wanted to be clear about that. On page 4,
15 you were talking about -- I want to be clear whose
16 testimony this is. You're referring to Mr. Hahn's
17 testimony. And you're stating that the Hampton
18 project as well as the 161 lines are classified as
19 participant funded or other in Mr. Hahn's figure 13.
20 Now, is that a correct classification?

21 A To my knowledge, that is correct, yes.

22 Q So they are other, and then the balance of this
23 project is the BRP; that's correct?

24 A The balance of the project referring to the 345 kV
25 line from the North Rochester substation to the

1 Briggs Road substation.

2 Q So -- my brain is not working well. The Hampton to
3 North Rochester 345 is other and then the rest of it
4 is BRP?

5 A The Hampton to North Rochester as well as the 161 kV
6 lines from North Rochester into the Rochester
7 transmission system are participant funded or other
8 under the MISO cost allocation classification.
9 Continuing from North Rochester into Wisconsin and
10 onto Briggs Road is the portion of the project that
11 has been given baseline reliability designation.

12 Q Why the difference in the way Hampton to Rochester
13 and then Rochester to La Crosse are treated? What's
14 that about?

15 A I was not involved at the time in this project. I
16 was not involved in this project at the time those
17 were designated. My understanding is that the first
18 portion of the project that's been labeled as
19 participant funding was primarily identified as
20 serving the local load-serving needs of the Rochester
21 area and therefore qualified for participant funding
22 status.

23 Q Okay. To your knowledge, does Mr. Hahn in his
24 evaluation of this take that into account in
25 determining ratepayer impacts in Wisconsin?

1 A He did not take -- to my knowledge, my understanding
2 in reviewing of his exhibit, he did not take into
3 account a portion of the project not exceeding
4 baseline reliability status beyond those owners of
5 the project who were at the time not MISO members.

6 So in other words, he didn't attempt to
7 categorize part of the project as being not eligible
8 for baseline reliability treatment by identifying
9 those entities who were not owners separately --
10 excuse me, not MISO members separately.

11 MS. OVERLAND: I have no further
12 questions.

13 EXAMINER NEWMARK: Okay. More cross?
14 Anyone?

15 CROSS-EXAMINATION

16 BY MR. THIEL:

17 Q Do any of the cost -- I'm Jim Thiel from the
18 Department of Transportation. Do any of the cost
19 estimates include the possibility of figures for
20 undergrounding on the Q1 line or the Q1-35 line?

21 A I'm not familiar with any of the cost cal -- or
22 determination numbers. That wasn't my area of
23 responsibility, so I don't know if any cost estimates
24 have been provided that included underground costs.

25 MR. THIEL: Thank you.

1 EXAMINER NEWMARK: Okay. Redirect?

2 MS. AGRIMONTI: No, Your Honor.

3 EXAMINER NEWMARK: You're excused.

4 Thanks.

5 (Witness excused.)

6 MS. AGRIMONTI: Mr. Thompson.

7 EXAMINER NEWMARK: Just keep them coming.

8 MS. AGRIMONTI: At some point I will beg
9 for a five-minute break.

10 EXAMINER NEWMARK: You can try.

11 CHARLES THOMPSON, APPLICANTS WITNESS, DULY SWORN

12 DIRECT EXAMINATION

13 BY MS. AGRIMONTI:

14 Q Mr. Thompson, would you please state your name,
15 position and responsibilities.

16 A My name is Chuck Thompson. I work for Dairyland
17 Power Cooperative. I am responsible for getting
18 regulatory permits in four states where we operate
19 for transmission lines, substations, communication
20 towers.

21 Q And did you prepare direct testimony and an exhibit
22 for this proceeding?

23 A Yes, I did.

24 Q And do you have copies of those in front of you?

25 A I do.

1 Q And are they true and correct copies of what you
2 filed here?

3 A They are.

4 MS. AGRIMONTI: Mr. Stevenson is -- Mr. --
5 one of the Mr. Thompsons is available for cross.

6 EXAMINER NEWMARK: Cross-exam. Go ahead.

7 CROSS-EXAMINATION

8 BY MS. OVERLAND:

9 Q And is it correct that -- I want to make sure I have
10 all the exhibits. Do you only have the Exhibit 1
11 which is the Dairyland Power Q1 rebuild technical
12 memorandum exhibit?

13 A That's correct.

14 Q That's it. And there's no 2, 3, 4, 5, 10 --

15 A No.

16 Q -- 20? One second. I want to clarify. Is it
17 correct that if the Q1 rebuild is not completed, that
18 Dairyland would not be a part of this project?

19 A No, that's not correct. We initially got involved in
20 the beginning of the project back in 2005 and 2006.
21 Dairyland originally had started the planning study
22 back then. And so we have been a member of the
23 project since it started.

24 Q Is it correct that three of the units at the Alma
25 plant will be shutting down?

1 A That's correct. The three smallest units.

2 Q Okay. And as it stands now, the project as proposed,
3 there is no substation -- it does not connect at the
4 Alma area, correct? It just goes through?

5 A That's correct.

6 Q So if the three -- if three of the units may be
7 shutting down, what is the need for the Alma rebuild?

8 A The Alma rebuild, the Q1 line goes from Alma to
9 Genoa, it was built back in 1950. We divided it up
10 in three segments based on trying to rebuild that
11 project. The line from North La Crosse with the
12 Briggs Road substation to Alma, that line serves the
13 City of Winona. There is a substation called
14 Marshland, it is a primary source for that. It also
15 serves Riverland Electric. They have customers off
16 of that substation also.

17 Q But the Q1 line extends from Alma through Marshland
18 down to La Crosse, correct?

19 A Correct.

20 Q And if there isn't the power coming out of Alma, the
21 plant, where is the power coming from that will be on
22 that line?

23 A The Alma plant actually has five -- well, take that
24 back, there is six power plants at Alma. Three of
25 them that are being proposed to be retired are 20

1 megawatt units each, they were built back in the late
2 '40s, so there's three other power plants at the Alma
3 site.

4 Q So 60 megawatts will be taken offline?

5 A That's correct.

6 Q And how many megawatts are left?

7 A Let me do some math here. I believe approximately
8 580 megawatts.

9 Q And so the line as it exists now is currently
10 handling the 580 plus the 60, correct?

11 A There are five 161 lines out of the Alma site. So
12 it's a combination of all five lines.

13 Q So the Q1 is only one of five?

14 A The Q1 is only one of five.

15 Q So it's handling a lot less than that. Does it
16 matter how those are configured as far as what power
17 is assigned to what lines?

18 A I don't know.

19 Q Well, okay. But if the Q1 line is handling the power
20 generate -- its share of the power generated at Alma,
21 if the -- if we lose 60 megawatts, won't there be
22 less power coming out of Alma?

23 MS. AGRIMONTI: Your Honor, I'm going to
24 object at this point. Mr. Thompson's testimony does
25 not relate to engineering considerations.

1 EXAMINER NEWMARK: Sustained.

2 BY MS. OVERLAND:

3 Q In your technical memorandum attached as Exhibit 1,
4 and you had earlier talked about the line being
5 divided into three sections, and the 3.1, 3.2, 3.3
6 sections of the technical memorandum, would that be
7 the same as the three sections you were describing?
8 You had used the term Marshland, but I don't see
9 that.

10 A Which page are you on?

11 Q Okay. If you look -- I'm just looking at the table
12 of contents now of your technical memorandum where
13 Section 3, Q1 rebuild options, we have 3.1, 3.2, 3.3.
14 And you had mentioned that it's divided into three
15 segments, but here they're, like, slightly different.
16 And you had mentioned Marshland. So here we have
17 Alma to Milton, Milton to Trempealeau, Trempealeau to
18 Holmen.

19 A If you go to page 5 in our introduction, second
20 paragraph down, it talks about the three segments
21 that make up the total of 70 miles.

22 Q Page 5. Oh, page -- you mean page 5 of 102?

23 A Right, correct.

24 Q Okay. So it --

25 A The three segments that you're referring to, 3.1,

1 3.2, 3.3, those are the segments for the north 40
2 miles from Alma to La Crosse.

3 Q The north 40 only?

4 A Yeah.

5 MS. OVERLAND: Okay. I have no further
6 questions.

7 EXAMINER NEWMARK: Okay. Other cross?

8 CROSS-EXAMINATION

9 BY MR. THIEL:

10 Q The Department of Transportation, Jim Thiel. Good
11 afternoon. The Q1 line that's referred to that
12 Dairyland Power Company has an easement for, where
13 exactly does the Q1 line run?

14 A Could you repeat that again, please.

15 Q Yeah, what is the -- the three geographical endpoints
16 of the Q1 line?

17 A The Q1 starts at the Alma substation; it proceeds
18 south to a substation called Marshland where it
19 interconnects; from there it goes to La Crosse; and
20 it interconnects with a couple of NSP lines in
21 La Crosse; and then continues on down to Genoa,
22 Wisconsin.

23 Q Okay. But for purposes of this proceeding, we're
24 just talking about Alma to La Crosse; is that
25 correct?

1 A Correct.

2 Q And are you aware of the size of the easement for
3 your existing line?

4 A Sure. Yes. The existing lines, they were purchased
5 back in 1950, I believe the majority of those
6 easements are blanket easements. And -- but we have
7 been maintaining approximately an 80-foot
8 right-of-way.

9 Q When you say a blanket easement, what do you mean by
10 that?

11 A Those were easements that were generally purchased
12 which took over a larger area than just the
13 right-of-way, but those were typically types of
14 easements that were gotten back in the early days.

15 Q So your testimony is that your right-of-way is not 80
16 feet, it's more than that; is that correct?

17 A That's going a little bit beyond what I can get into.
18 I'm not a right-of-way expert.

19 Q When you talk about rebuilding the Q1 line from Alma
20 down to La Crosse, when you say it needs rebuilding,
21 do you have a precise cost estimate for rebuilding it
22 exactly as it is now as a 161 kV line?

23 A We have done some generic numbers for that.

24 Q In the absence of this project, would you rebuild the
25 161 kV line in the same place it is now?

1 A Yes, we would.

2 Q And would you put the towers in the same place as
3 they are now?

4 A That would probably be something we'd negotiate with
5 the landowners. We would stay on the existing
6 rights-of-way. Where the actual location of the
7 poles would be, it may -- it may change.

8 Q Would you -- generally do you know whether you would
9 replace them with the H-type poles?

10 A We can do either. We can do the existing H frame,
11 they could be wood or steel, or you could go to a
12 single structure, a single pole. So you could build
13 it either way.

14 Q Are you aware that some of the easements are
15 restricted to H-frame poles?

16 A I am not.

17 Q Have you looked at all of the easements along the
18 line?

19 A Some of the folks in our right-of-way department
20 have, yes.

21 Q You have no direct personal knowledge of what they
22 state?

23 A No, I don't.

24 Q Approximately when would you proceed to reconstruct
25 the 161 kV line in the absence of this initiative by

1 CapX?

2 A Well, we would need to wait until the Commission
3 order comes out to know which route they've selected.
4 Anticipating that they have chosen possibly the
5 Arcadia route, we would begin work on doing the
6 engineering, rights-of-way contacts and that type of
7 thing. We would probably have to wait until the CapX
8 line is constructed before we could take that line of
9 service to rebuild it. So we're probably looking at
10 starting construction in late 2015.

11 Q And I take it that would require a separate
12 application to the Commission?

13 A Under Wisconsin law, if Dairyland stays on the
14 existing rights-of-way, we do not need to get a CPCN.

15 Q And when you say on the existing right-of-way, does
16 that mean the 80-foot right-of-way?

17 A Correct.

18 Q And is your application for funding to the RUS for
19 the -- just the Wisconsin portion of the 345 kV
20 project or is it broader than that?

21 A The Dairyland at this point has not applied to RUS
22 for funding. The 345 project itself would be a
23 separate what they call a work plan. We'd have to
24 file a separate work plan for that project, and that
25 would take in the whole projects in -- for the cost,

1 both the Minnesota and Wisconsin part.

2 Q So you do not have an application pending before RUS
3 for funding?

4 A No. Under RUS rules, you have to put a project in a
5 work plan, they have to approve that work plan.
6 We've included in -- generally we submit two- to
7 three-year work plans with RUS. This project has
8 been included in that. The only funding we have put
9 into that document is for the permitting phase of it.
10 The next part of it is that they actually have to
11 approve the Federal EIS. Unless the environmental
12 documents are approved, it's at that point they
13 decide whether they will or will not give you
14 funding. So the application comes in after the
15 project is probably built.

16 Q So it's a reimbursement of your share of the cost of
17 the -- I guess I don't understand. What exactly is
18 under consideration by RUS?

19 A The -- Dairyland has indicated that we're -- we
20 planned on 11 percent ownership of the 345 kV
21 project. The funding for that 11 percent we would
22 put in an application to RUS to cover those costs.

23 Q Okay. So there is nothing for strictly improving the
24 161 kV line on the 80-foot right-of-way?

25 A That would be a separate document. Separate loan

1 request.

2 MR. THIEL: Thank you. I have no further
3 questions.

4 EXAMINER NEWMARK: Okay. Other cross?
5 No? Redirect?

6 MS. AGRIMONTI: Yes, Your Honor.

7 REDIRECT EXAMINATION

8 BY MS. AGRIMONTI:

9 Q I just wanted to clarify something with Mr. Thompson.
10 You testified about the existing right-of-way for the
11 Q1 and that's the existing 80 feet that TPC maintains
12 for the Q1; is that right?

13 A That's correct.

14 Q And then you also testified that you are not in a
15 position to be able to opine about whether the
16 easements might allow TPC to maintain a right-of-way
17 greater than that 80 feet; is that also correct?

18 A That's correct.

19 MS. AGRIMONTI: Thank you. That's all I
20 have.

21 EXAMINER NEWMARK: Okay. You're excused.
22 (Witness excused.)

23 MS. AGRIMONTI: This is when I start
24 begging.

25 EXAMINER NEWMARK: Okay. We'll take ten

1 minutes. We'll start at quarter to.

2 (Recess taken from 2:35 to 2:45 p.m.)

3 EXAMINER NEWMARK: Let's get on the
4 record. Okay. Well, the applicants have offered
5 written surrebuttal and exhibits for the next two
6 witnesses, Stevenson and Hillstrom. And I guess the
7 question is really how are we going to handle these?
8 I've already decided for sake of time we can -- you
9 know, if they go in, they go in as read. We have
10 the paper version. We don't have to read it into
11 the record.

12 However, I guess I'd like to hear from the
13 parties about this. Because there is substantial
14 information in here. So I mean, one thing I can
15 offer is to give people more time, we could take
16 these witnesses tomorrow. But I don't know if
17 that's really going to solve our timing problems
18 because of the order of witnesses we need to have.
19 If it would help to have more time right now to
20 review these, I could take -- we can go off the
21 record for this.

22 (Discussion off the record.)

23 JEFFREY R. WEBB, MISO WITNESS, DULY SWORN

24 DIRECT EXAMINATION

25 BY MR. DAY:

1 Q Sir, would you state your name and company address
2 for the record, please.

3 A My name is Jeffrey R. Webb. I work for the Midwest
4 ISO. My address is 701 City Center Drive, Carmel,
5 Indiana.

6 Q Mr. Webb, did you prepare testimony, direct and
7 rebuttal testimony for this proceeding?

8 A Yes, I did.

9 Q And subject to any corrections you may have, would
10 your answers be the same today as when you prepared
11 them?

12 A They would.

13 Q Could you briefly -- or highlight the corrections
14 that you have I believe on page 19 of your direct
15 testimony?

16 EXAMINER NEWMARK: We can do that off the
17 record.

18 (Discussion off the record.)

19 EXAMINER NEWMARK: Let's get back on.

20 MR. DAY: Mr. Webb is here for
21 cross-examination.

22 MS. AGRIMONTI: Do we get to ask
23 questions?

24 EXAMINER NEWMARK: Yes, you do.

25 MS. AGRIMONTI: Thank you.

1 EXAMINER NEWMARK: You need to be a little
2 more...

3 MS. AGRIMONTI: I do when I need breaks.

4 EXAMINER NEWMARK: Right.

5 CROSS-EXAMINATION

6 BY MS. AGRIMONTI:

7 Q Mr. Webb, I had just a couple of questions for you.
8 Mr. Hahn provided some testimony and you also
9 provided testimony regarding the cost allocation
10 method under the MISO tariff based on its designation
11 under the MTEP. Do you recall all that testimony?

12 A For the most part, yes.

13 Q Mr. Hahn in his surrebuttal suggests that there might
14 be an opportunity to re-submit the project to the
15 MISO process and have it redesignated as an MVP. Do
16 you believe that this is a reasonable possibility?

17 A No, I don't think that would happen at all.

18 Q Why not?

19 A Well, when a project comes through the MTEP process,
20 it's classified based on the need driving the project
21 at the time of its approval. And then the cost
22 allocation is done based on the FERC approved
23 methodology associated with the particular project
24 designation which again is based on its need.

25 If the project were to be altered that was

1 designed to serve the same needs as the original
2 project here, which I think would be the case here,
3 whatever alternative project or configuration of the
4 existing project, reconfiguration, that would be
5 newly considered, would be considered the same
6 project as a variation to the same needs. So we
7 would really consider it a baseline reliability
8 project in any case.

9 Q Would you agree that all of the MISO studies to date
10 are based on an interconnection between the
11 La Crosse-Madison line and the La Crosse -- excuse
12 me, the Hampton-La Crosse line at Briggs Road
13 substation or North La Crosse substation?

14 A Yes. All of the projects that have been through the
15 Midwest ISO stakeholder process and have been
16 approved by the board have -- and particularly the
17 one we're talking about here -- has been presumed
18 studied and approved at the regional level to be
19 terminating at the North La Crosse substation, Briggs
20 Road substation.

21 Q And those are just across the street from each other,
22 is that correct, to your understanding? Briggs Road
23 and North La Crosse?

24 A We have always designated the project in our listings
25 as North La Crosse and have understood that to be a

1 substation at North La Crosse or right about there
2 which I believe now is called the Briggs Road
3 substation.

4 Q You said that that would be the result of the
5 stakeholder process. Can you just briefly describe
6 what the stakeholder process is in designating
7 projects under the MTEP?

8 A Yes. When a need on the system is identified, a
9 project or various projects are considered as to how
10 that need can be met. Those -- either the need or
11 the project is identified in a series of stakeholder
12 meetings throughout either an annual or a multiyear
13 planning process, which -- where we hold meetings
14 around the system with -- that are open meetings
15 where stakeholders can come and understand what the
16 various needs are and what the various proposed
17 projects are. That process, as I said, can last as
18 short as a nine- to 12-month cycle or it can last
19 considerably longer than that, over several years, as
20 solutions are fully developed.

21 These -- this process involves numerous
22 open meetings with Midwest ISO stakeholders in
23 various locations around the system, at our central
24 offices and at three separate subregional locations
25 which vary from place to place, but generally in the

1 three different subregions that we've designated.

2 So there is quite an extensive exchange of
3 information between project -- those that propose
4 projects and stakeholders and MISO staff to determine
5 what the appropriate solutions are. Once that --
6 those solutions are selected, after that vetting
7 process, the MISO staff then presents all of those --
8 the proposed projects in aggregate through the MTEP
9 report and it goes through another round of review by
10 the planning advisory committee, which is the
11 stakeholder group at MISO, and the advisory committee
12 as well. It's a higher level group. And then
13 finally they're presented as a recommendation to be a
14 part of the regional plan to the Midwest ISO board of
15 directors, and they take action on that
16 recommendation.

17 Q And the MTEP reports are the result of that process,
18 that's sort of the end report that comes out of that
19 stakeholder process?

20 A That's correct. The report contains a number of
21 discussions and analysis that may not pertain to a
22 particular set of project recommendations, but a key
23 part of the MTEP report is the listing of the
24 recommended projects and the discussion surrounding
25 them. And those listings are in what has already

1 been I think referred to here once as Appendix A to
2 the MTEP report which again lists the recommended and
3 approved contracts.

4 Q And it is correct that the MTEP 08 approved and
5 recommended the La Crosse -- Hampton to La Crosse
6 project and the MTEP 11 recommended as part of the
7 MVP portfolio the La Crosse to Madison line; is that
8 correct?

9 A That's correct.

10 MS. AGRIMONTI: I have no other questions.
11 Thank you.

12 EXAMINER NEWMARK: Okay. Any other cross?

13 CROSS-EXAMINATION

14 BY MS. OVERLAND:

15 Q Good afternoon, Mr. Webb.

16 A Afternoon.

17 Q First question, do you happen to have a Post-It in
18 your pocket regarding how much wind is in queue for
19 Wisconsin?

20 A I have that Post-It in my head.

21 Q That will do.

22 A Which, as I recall, the amount of wind in the queue
23 in Wisconsin is about 500 megawatts or a little less
24 than that.

25 Q And is there any offshore in Lake Michigan --

1 A No.

2 Q No. What about Illinois?

3 A How much is in Illinois?

4 Q Right.

5 A That's not on my Post-It.

6 Q How about in your head?

7 A Nor there at the moment. But I can tell you how much

8 is in Minnesota and Iowa.

9 Q No, no, we want to go east. What about Indiana?

10 Would you agree that quite a bit of wind has been

11 installed in -- well, first, Illinois?

12 A Yes. There's a fairly active queue in Illinois and

13 in Indiana.

14 Q And in Indiana. Okay. Well, let's move on to your

15 testimony. First, on page 7 --

16 A Direct?

17 Q Of your direct, right. At the bottom starting on 25,

18 you're talking about projected power flows. And what

19 is -- can you quantify what that means, projected

20 power flows? What are you referring to here?

21 A These -- that just refers to the expected flows on

22 the systems in a planning study.

23 Q That's more of a general reference and not

24 specifically regarding this project?

25 A I think that's correct in this part of the testimony,

1 yes.

2 Q And have you done any analysis of what is projected
3 for this project?

4 A Yes.

5 Q And that would be -- for this project? Expected
6 capacity?

7 A Yes. We did analysis for the needs for this project
8 back in 2008 and also refreshed it for this docket
9 here.

10 Q Would the expected capacity be reflected in the
11 appendices, the project lists?

12 A Appendices to the MTEP?

13 Q Right.

14 A Would the -- could you repeat that question.

15 Q Sure, yeah. Would you agree that the -- like I said,
16 the summer ratings, the rating of the lines as
17 proposed would be within the appendices of the MTEP,
18 in the spreadsheet?

19 A No, I don't think so. You said of the spreadsheet.
20 But I mean, yes, the appendices are in spreadsheet
21 form, but they wouldn't include line ratings and
22 things like that. Those would be included in the
23 planning power models. We don't list out the ratings
24 of lines, specifically in the appendices to the MTEP.

25 Q Are you sure? I'll check it out. I do believe that

1 they're there, we'll -- it will be in the documents.

2 A Sure.

3 Q Now, I'd like you to take a look at page 13 where
4 you're talking about the thermal results summary in
5 Table 1. Do you have that?

6 A Yes.

7 Q Now, did you also submit testimony in the Minnesota
8 certificate of need docket regarding similar results?

9 A Yes.

10 Q And would you agree that they're different now than
11 they were there?

12 A Somewhat, yes.

13 Q And why is that?

14 A Different vintage of planning study. Back then we
15 were looking forward to the system as projected from
16 2007's vantage point, and I think we were analyzing a
17 2011 system. Here when we did our refresh, we looked
18 out to our current 2016 forecast planning year. And
19 so the 2011 system as viewed back in 2007 might be
20 expected to look a little different than the 2016
21 system from today's vantage point.

22 Q Okay. Now, Your Honor, I need to check and see, the
23 TSSR report, is that in the record here? Is that
24 included?

25 MS. AGRIMONTI: It's in the application,

1 it's Appendix E.

2 MS. OVERLAND: Appendix E? Okay. Thank
3 you.

4 Q And would you agree, Mr. Webb, that in Table 1, there
5 are no Alma 161 lines showing contingencies --

6 A No.

7 Q -- of the current? Page 13 with the 2016 summer
8 peak, would you agree that there are no Alma lines in
9 that listing?

10 A I see Alma-Marshland listed as a contingent on it.

11 Q Under critical facility.

12 A Oh, that's true.

13 Q Okay. And would you agree subject to check that two
14 of them, two Alma lines were listed as critical
15 facilities in the 2008 filing that is included in
16 that TSSR report, subject to check?

17 A It's possible.

18 Q Okay. And it will say what it will say. And you had
19 some corrections to your testimony on page 19. And
20 can you explain why on lines 10 and 11 the numbers of
21 contingencies conditions were lowered from 20 to 17
22 and from 26 to 24?

23 A Yeah. Generally, that was a matter of our engineers,
24 when they rolled up the list of events and facilities
25 impacted, sometimes they can appear duplicated

1 because it may -- you may end up -- you may see the
2 same contingent -- same overload for different
3 contingencies and that sort of thing. And so when we
4 eliminated any double counting, the numbers changed a
5 little.

6 Q And then is that list a part of the record somewhere
7 in your testimony?

8 A It wasn't provided in my testimony.

9 Q Okay. Do you know if that's provided in the record
10 anywhere?

11 A I think the list was provided in an interrogatory.

12 Q Do you remember whose?

13 A I think it was CUB.

14 MR. DAY: Your Honor, if I may, the list
15 that Ms. Overland is looking for is in our Midwest
16 ISO discovery provided to CUB. I don't know if
17 that's been part of the record. I think those
18 answers were provided to you.

19 MS. OVERLAND: Right. They would -- okay.
20 I have no further questions.

21 EXAMINER NEWMARK: Okay. Other cross?

22 CROSS-EXAMINATION

23 BY MR. CULLEN:

24 Q Good afternoon, Mr. Webb. Lee Cullen representing
25 ATC. Are you familiar with the Midwest ISO

1 transmission owners' agreement?

2 A Yes, I am.

3 Q And that document provides, does it not, that the
4 approval of the MTEP plan is subject to any
5 applicable approvals by state authority, correct?

6 A That's correct.

7 Q So that would include approval by Public Service
8 Commission of Wisconsin of the CPCN for this project?

9 A Of course.

10 Q So it would also be fair to say, would it not, that
11 the Midwest ISO does not have routing and siting
12 authority for projects in Wisconsin?

13 A Also true.

14 Q And finally, I think it's also the case that the
15 owners' agreement recognizes that the final design of
16 projects may vary from what is included in the MTEP
17 depending on changing circumstances, correct?

18 A Yes, if necessary.

19 MR. CULLEN: That's all I have.

20 EXAMINER NEWMARK: Staff?

21 CROSS-EXAMINATION

22 BY MS. RAMTHUN:

23 Q Mr. Webb, I'm Diane Ramthun for the Public Service
24 Commission. I'm going to refer to your rebuttal
25 testimony starting on page 4. On that page, you talk

1 about the 78 percent growth rate that's provided in
2 Module E of the MISO tariff; am I correct?

3 A You say --

4 Q On page --

5 A I understand.

6 Q On page 4 of the rebuttal testimony you're talking
7 about the growth rate of 78 percent that's stated in
8 Module E of the MISO tariff?

9 A Yes. Well, it's .78.

10 Q I'm sorry, .78 percent.

11 A I think 78 would be high.

12 Q Yeah, you're right.

13 A But --

14 Q I didn't see the point.

15 A Very big point.

16 Q Well, it's just -- I brought the wrong glasses.
17 They're kind of a problem today.

18 A Yes. There is a relationship between that and
19 Module E. I could explain that if you...

20 Q Please explain. You said there is a relationship
21 between the .78 and Module E?

22 A Yes. Module E is the part of the MISO tariff that
23 requires load serving entities to report their load
24 forecasts to Midwest ISO for planning purposes.

25 Q And apparently that reporting under Module E has

1 resulted in a projected growth rate of .78 percent?

2 A For the aggregate market, yes.

3 Q And according to your testimony, MISO uses this
4 particular forecast that includes a .78 percent
5 growth rate, you say primarily to develop resource
6 forecasts to support comparative analysis of
7 congestion and production costs between different
8 possible future policy scenarios. Am I correct that
9 you're saying that's one use of these -- this type of
10 forecast?

11 A That's our primary use of it.

12 Q What are other uses of it?

13 A That's the only one I can think of that utilizes the
14 aggregate system forecasts. Resource forecasting --
15 also I guess consideration of reserve margin into the
16 future.

17 Q Does MISO in any way state that the use of this type
18 of aggregate forecast is limited to the uses you just
19 described?

20 A I'm not sure I completely understand that question.
21 Limited by -- for MISO's use or for anyone's use?

22 Q For anyone's use.

23 A No, we don't make that explicit exclusion, of course.

24 Q So could this aggregate type of forecast be
25 considered in transmission planning?

1 A You would not use -- we do not use that forecast in
2 transmission -- well, let me clarify this. There is
3 different types of transmission planning. I believe
4 my testimony in that regard here was for transmission
5 reliability planning, which is different than, say,
6 projecting what transmission may be needed over the
7 longer term to meet various, again, long-term
8 objectives, again, where you are using those kinds of
9 forecasts to set up production cost models, for
10 example, and to compare one transmission portfolio if
11 you will to another from the standpoint of various
12 benefits, in particular, production cost benefits.

13 So a scenario analysis between various
14 conceptual transmission plans for the long-term is
15 more the use of those forecasts when we -- and the
16 distinction is that when you're doing transmission
17 reliability planning, you really have to bring your
18 focus in closer to the particular area of the system
19 that you're seeking to ensure maintains reliability.
20 And then when each of those areas are looked at, then
21 in aggregate you can establish that you have a
22 reliably planned transmission system.

23 Q Am I correct that the recently issued MTEP 12 uses a
24 forecasted aggregate load growth rate of .78 percent?

25 A I thought the .78 was MTEP 11. MTEP 12 I think is

1 actually somewhat higher than that, but I don't think
2 that that's been locked on yet.

3 Q Okay. Referring to page 5 of your rebuttal
4 testimony, your first question-and-answer series,
5 line 6, you talk about a 39,000 megawatts load at
6 MISO. Is that the 2011 load?

7 A The reason I'm hesitating is because I believe that
8 the -- in the creation of the MTEP 11 aggregate
9 system forecast rates of .7 that we've been talking
10 about here, I think that those are rolled up from the
11 Module E reporting for 2010 because it's a, you know,
12 it's a sequential process.

13 Q So you're not sure if it represents load in 2010 as
14 reported in the MTEP 11?

15 A Well, it's on the same basis as the .78. It's load
16 that was reported that yielded the .78, and I'm just
17 not a hundred percent sure of whether that was
18 Module E reporting for year 2010 or '11. I think it
19 was 2010.

20 Q And what's the -- what is the geographical area
21 represented by the 30,000 -- 39,000 megawatt of load?

22 A Well, it was a wide area that included -- this area
23 tended to be in the western side of our footprint.
24 We don't normally -- the information that's reporting
25 in Module E is confidential on an LSE basis, and so

1 we tend not to aggregate it. But -- and disseminate
2 that information. But it was in an area that is in
3 the La Crosse area and to the west of that.

4 Q In that same answer, page 5, you talk about 234 areas
5 over which the loads are aggregated for reporting
6 purposes with 116 of those areas reporting growth
7 rates of more than one percent. Do you see that
8 answer?

9 A Yes.

10 Q Am I correct that -- does that mean that 118 areas
11 have growth rates of less than one percent?

12 A That would be true, you could surmise that.

13 MS. RAMTHUN: No further questions.

14 EXAMINER NEWMARK: Okay. Redirect?

15 MR. DAY: None, Your Honor.

16 EXAMINER NEWMARK: All right. You're
17 excused. Thanks.

18 (Witness excused.)

19 EXAMINER NEWMARK: So should we move on to
20 applicants' final witnesses or is there any reason
21 to take Mr. Holtz next?

22 MR. CULLEN: Applicants.

23 EXAMINER NEWMARK: In your opinion,
24 correct?

25 MR. CULLEN: Yes.

1 EXAMINER NEWMARK: Let's start
2 Mr. Stevenson. Let's get off the record.

3 (Discussion off the record.)

4 MS. AGRIMONTI: Mr. Stevenson.

5 GRANT STEVENSON, APPLICANTS WITNESS, DULY SWORN

6 DIRECT EXAMINATION

7 BY MS. AGRIMONTI:

8 Q Mr. Stevenson, will you please state your name and
9 work address.

10 A Grant Stevenson, S T E V E N S O N. I work at 250
11 Marquette Plaza, Minneapolis, 55401.

12 Q And what are your responsibilities with respect to
13 this project?

14 A I am project manager. I have overall responsibility
15 for the project from start to finish from the time
16 the project leaves the planning studies until final
17 implementation.

18 Q And you've provided a number of prefiled testimony
19 exhibits; is that right?

20 A Yes. Several.

21 Q I'll read them off and you tell me if I've got the
22 list right. I have you as filing direct,
23 supplemental direct, second supplemental direct,
24 third supplemental direct, rebuttal, surrebuttal and
25 sur-surrebutal. Did you prepare all that testimony?

1 A Yes, I did.

2 Q And do you have true and correct copies of that
3 before you?

4 A I do.

5 Q And did you also prepare Exhibits 1 through 17?

6 A Yes.

7 MS. AGRIMONTI: The witness is available
8 for cross.

9 EXAMINER NEWMARK: Okay. We need to move
10 in his exhibits.

11 MS. AGRIMONTI: Oh, sorry, move in
12 sur-surrebutal.

13 EXAMINER NEWMARK: And his Exhibits 15
14 through 17.

15 MS. AGRIMONTI: 15 through 17, yes, sir.

16 EXAMINER NEWMARK: Any objection?

17 (Stevenson Exhibits 15 through 17
18 received.)

19 MS. OVERLAND: I had a question. I'm
20 noticing no one's being sworn in. Is that normal?

21 EXAMINER NEWMARK: Let's go off the
22 record.

23 (Discussion off the record.)

24 EXAMINER NEWMARK: Back on the record. So
25 we have cross, right?

1 MS. AGRIMONTI: I'm sorry, do you need to
2 rule on my request to admit sur-surrebutal?

3 EXAMINER NEWMARK: I guess so. It's all
4 in. Anybody want cross then?

5 MS. NEKOLA: I have a few questions for
6 Mr. Stevenson.

7 CROSS-EXAMINATION

8 BY MS. NEKOLA:

9 Q Good afternoon, Mr. Stevenson. I am Katie Nekola and
10 I represent Clean Wisconsin.

11 A Okay.

12 Q In your direct testimony on page 23, you provide a
13 general project schedule. Do you have that? It's
14 pretty broad. It doesn't have a lot of detail in it.
15 But it does note that the actual dates may be changed
16 based on various factors. Is that correct?

17 A Yes, that's true of all projects.

18 Q Right. Okay. So can you explain what factors might
19 modify the construction schedule as you're
20 proceeding?

21 A There's a number, ones that come to mind: Outage
22 constraints, we have an idea of when we want to
23 schedule outages. Most every route in Minnesota and
24 Wisconsin contemplates rebuilding an existing line,
25 and that outage must be scheduled with MISO.

1 Construction seasons can change schedules.
2 For example, there are areas where we may have to
3 work only during the winter or only during the fall,
4 during low water periods because there is water
5 crossings, those sorts of things.

6 Q Is that an exhaustive list or are there other factors
7 that you can think of?

8 A That's two examples.

9 Q Right. Are there others?

10 A I imagine there are others, sure.

11 Q Would flooding in the river bottoms be likely to
12 delay construction?

13 A If there are -- I guess -- do you have a specific
14 example? It sure could be possible, yes.

15 Q Okay. Is your summer construction schedule affected
16 by the availability of outages more than other times
17 of the year?

18 A It's generally accepted that we won't get any line
19 out June, July and August. During those times, we
20 would be working someplace else.

21 Q Okay. Thanks. In your experience, and I know you've
22 done a number of these, managed a number of these
23 projects. When you construct transmission projects,
24 how do you decide where to begin? I mean is it fair
25 to assume that you would start regardless of which

1 line route is selected for this project, at the river
2 crossing, for example?

3 A No, not necessarily. There are a number of factors.
4 Generally the first one is area of first need
5 identified by transmission planning engineers. But
6 that can modified by a number of factors, conditions
7 that either commission places on construction
8 regarding timing for a number of things, wetlands,
9 endangered species. There's a number of factors that
10 could modify that general starting point of the order
11 in which the planning engineers say they'd like to
12 see the segments energized.

13 Q Okay. And so when you do construct, do you construct
14 one contiguous segment after another or would you
15 move along the line route?

16 A We will endeavor to start a segment and stay there.
17 It's more efficient, less costly if you don't
18 re-deploy the troops. That said, on this project, I
19 expect that there will be times when we have more
20 than one segment under construction at a time.

21 Q Okay.

22 A And I also expect that there will be times when we
23 have no choice but to do a little bit of jumping
24 around.

25 Q Is your December 2015 in-service date a hard-and-fast

1 date or is that subject to change as well?

2 A Many project managers will tell you dates are always
3 hard and fast, but I'm not one of those. There are a
4 number of factors that we've been discussing that all
5 could influence ultimate completion date.

6 Q And just a couple more questions about ice roads.
7 You referred to those in your testimony. Are they
8 ever constructed in the summer or fall months in
9 anticipation of winter construction?

10 A I'm not sure I understand, because in my mind, ice
11 means winter. It would only start once ice is
12 beginning to be established.

13 Q Would you ever --

14 A Or frozen conditions.

15 Q Would you ever prepare the construction area for an
16 ice road before winter?

17 A If we could do so without damaging the sensitive area
18 that -- ice roads almost by definition are to protect
19 a sensitive resource. If we can prepare it before
20 it's frozen, we do so. But that might also indicate
21 that we would be driving or traveling in areas that
22 aren't sensitive. So it's kind of a bit of a loop.

23 MS. NEKOLA: Thank you. That's all I
24 have.

25 EXAMINER NEWMARK: Department of

1 Transportation, I skipped over you by accident. Did
2 you have any questions?

3 MR. THIEL: Yes, we do.

4 CROSS-EXAMINATION

5 BY MR. THIEL:

6 Q Would you describe the Q1 route alternative as
7 basically the Dairyland, existing Dairyland Power
8 line route?

9 A The Q1 Highway 35 route?

10 Q No, just the Q1.

11 A The Q1 route is essentially the Dairyland route, but
12 we made choices to vary from their existing
13 right-of-way.

14 Q So you're saying the Q1 route is off the table?

15 A I've been advised that the Q1 route, if you talk
16 about the original Q1 route, includes a -- the final
17 three miles or so on the very southeastern end of
18 that route, is -- the Fish & Wildlife Service has
19 opined that that segment is not permitable.

20 Q Would you describe the Q1-35 route then? What is the
21 Q1-35 the route alternative?

22 A You want me to describe what the route is?

23 Q Yes. Does it follow the Great River Road national
24 scenic byway and does it follow the Dairyland
25 easement, or does it get off the Dairyland easement?

1 MS. AGRIMONTI: A compound question. I
2 also object in that Mr. Stevenson is our cost and
3 project manager witness. Mr. Hillstrom is really
4 the appropriate routing witness. Not that
5 Mr. Stevenson doesn't have some knowledge, but the
6 detailed questions about the routes should be
7 directed to Mr. Hillstrom.

8 EXAMINER NEWMARK: Be a little bit more
9 specific, Mr. Thiel, and if it's a routing question,
10 make sure you have the right witness.

11 BY MR. THIEL:

12 Q Well, I believe Mr. Stevenson has already testified
13 to -- if you refer to your direct testimony,
14 Mr. Stevenson, PSC reference 158011, page 79, line 16
15 to page 80, line 2, published January 9th, 2012, you
16 state that the Q1-Highway 35 route is the least cost
17 option. Is that correct?

18 A Can you tell me which testimony you're referring to?

19 Q I'm talking to your direct testimony, PSC reference
20 number 158011.

21 MS. AGRIMONTI: I believe Mr. Thiel is
22 citing the page number as originally filed, and
23 we'll need to do some correlation. We had
24 sequentially numbered the pages.

25 MS. CORRELL: You said page 79. It should

1 be page 23 in the re-filed.

2 MS. AGRIMONTI: Thank you.

3 BY MR. THIEL:

4 Q So that would be page 23, line 16 to page 24, line 2;
5 is that correct?

6 A I have PSC reference number 158309 before me.

7 Q I believe your direct testimony was number 158011,
8 and that was re-filed under a different number; is
9 that correct?

10 EXAMINER NEWMARK: Yes. He's got the
11 right one.

12 BY MR. THIEL:

13 Q You have the correct one before you there?

14 A I have 158309.

15 MS. AGRIMONTI: Yes.

16 BY MR. THIEL:

17 Q You state there that --

18 A Sorry, which page?

19 Q Page 23 and page 24; page 23, line 16 to page 24,
20 line 2.

21 A Okay. I'm there.

22 Q And you state that the Q1-Highway 35 route is the
23 least cost alternative?

24 A Yes, that's correct. Line 1 on page 24.

25 Q How do you reach that conclusion?

1 A Through estimating practices.

2 Q In your estimating practices, did you consider the
3 fact that the right-of-way requirements that are a
4 345 kV line are larger than 80 feet wide?

5 A Yes, I did.

6 Q And what costs did you attribute to that additional
7 right-of-way requirement?

8 A I don't have the specific number. It's part of the
9 number of line items that add up to estimates for
10 each and every of these line segments or routes.

11 Q Talking about the segment to the -- down where you're
12 avoiding the area of which the U.S. Fish & Wildlife
13 Service said was unacceptable. Won't you have to go
14 off existing Dairyland right-of-way to construct
15 along Highway 35 as the alternative under Q1-35?

16 A In segment 8, yes.

17 Q And do you have a cost estimate for that?

18 A I'm sorry, for that segment?

19 Q For that segment.

20 A It's in the application. I don't have it memorized
21 segment by segment.

22 Q And what portion of that is on the Highway 35
23 right-of-way, if any?

24 A The -- we've shown two alignments in this proceeding.
25 The original CPCN filing had some -- my recollection

1 is this is an area where the highway right-of-way is
2 quite wide, maybe 350 feet either side of the
3 centerline. And if that recollection is correct, we
4 were overlapping in the original CPCN application.

5 In one of my testimonies, I don't remember
6 which one, we showed one alignment that shifts it a
7 little bit farther north. So there is no overlap.

8 Q So that would require acquiring additional
9 right-of-way for that installation; is that correct?

10 A For that segment, correct.

11 Q And do you have a -- know how many property owners
12 that are there in that area?

13 A I don't have the number of property owners committed
14 to memory, but I do know that no new property owners
15 are affected by that shift.

16 Q How could that be if they're -- you're on entirely
17 new right-of-way there?

18 A It's a shift, my recollection of something on the
19 order of 40 feet. And I know because when we
20 contemplated discussing that shift, I pulled the maps
21 of landowners that were noticed previously and we
22 superimposed the new line and it's all the same
23 property owners.

24 Q Now, in that particular location, do you know whether
25 there is any objection from the Department of Natural

1 Resources to cutting trees in order to clear that
2 right-of-way for your 150-foot width?

3 A I don't recall any specific objections to cutting
4 trees, but I'm not the lead for permitting, so I
5 don't recall specific objection to cutting trees.

6 Q You said you just moved it 40 feet north. But if you
7 have a 150-foot right-of-way requirement for 435 kV
8 line, don't you have to move it farther north than
9 that?

10 A The original application alignment overlapped DOT
11 right-of-way -- my recollection, we have to check the
12 exact number, by some 40 feet. The width of
13 right-of-way has not changed. The entire area from
14 the highway north -- not the entire area, but it's
15 wooded. So the strip of right-of-way is the same
16 width shifted 40 feet farther north or some number
17 close to 40.

18 Q 40 feet beyond the 350-foot conservation easement
19 area owned by DOT?

20 A Our original alignment -- our proposed right-of-way
21 overlapped DOT right-of-way by some 40 feet in the
22 original alignment.

23 Q So you're at the very far northern edge of the DOT
24 right-of-way; is that correct?

25 A We were outside -- the poles were outside the DOT

1 right-of-way.

2 Q Were they outside of the DOT scenic easement?

3 A I believe in that area, the scenic easement and the
4 right-of-way are the same width and strip.

5 Q Well, that's not correct. But... We can clarify
6 that later.

7 A It's a matter of fact. We can...

8 Q Yeah. And -- but it is correct you need a 150-foot
9 width for your blowout area for your lines; is that
10 correct?

11 A It's specifically called out in the application, I
12 believe in that area it's 155 feet.

13 Q Now, do you know how many crossings of highways under
14 the Department of Transportation's jurisdictions you
15 would have to cross for the Q1-35 route?

16 A Again, that's in the record.

17 EXAMINER NEWMARK: Is there a particular
18 part of the application we can be directed to or
19 photographs of the route that might clarify a lot of
20 these questions?

21 MR. THIEL: It has to do with his original
22 statement that this is the least cost option.

23 EXAMINER NEWMARK: I'm not doubting that.
24 But if we can get the best information maybe just by
25 referencing a part of the application instead of

1 testing his knowledge on the stand. We're not
2 disputing -- I don't think he's disputing what's in
3 the application. So if we can just have, you know,
4 the application information, it would be more
5 conducive.

6 MR. THIEL: The point is they have not
7 considered what it cost to underground those
8 crossings at all.

9 MS. AGRIMONTI: Your Honor, it sounds like
10 argument rather than questioning.

11 MR. THIEL: Well, that's what I'm getting
12 to asking that question --

13 EXAMINER NEWMARK: Okay. Well, then get
14 to those questions because we're just testing his
15 knowledge of the --

16 BY MR. THIEL:

17 Q Assuming that there are seven highway crossings under
18 the Department of Transportation's jurisdiction, have
19 you made an estimate of what it would cost to
20 underground a 345 kV line through those seven
21 crossings?

22 A Other than providing data on typical per mile cost
23 and cost of transition stations, no.

24 Q And do you know that as a condition of issuing
25 permits for crossing those lines, the Department of

1 Transportation will also require you to underground
2 in all scenic easements affected?

3 A We learned that late I believe in surrebuttal of
4 Mr. Fasick.

5 Q Have you got an estimate of what that would cost to
6 underground lines in those areas?

7 A I believe you're talking about the same area, the
8 seven crossings sounds about right, I believe --

9 Q No, I'm talking about the scenic easement areas now,
10 not the right-of-way.

11 A No, forgive me. I -- other than providing the per
12 mile cost and cost of transition stations, no.

13 Q So is it true to say that you don't know whether the
14 Q1-35 route is the least cost option of all
15 alternative routes?

16 A It is my understanding that the scenic easements have
17 as a permitted use transmission lines, and I think we
18 do not agree that we can't cross the road overhead.
19 Those two issues -- in our opinion, the Q1-Highway 35
20 is still least cost.

21 Q Well, how can that be if we're not going to issue a
22 permit to cross any of those highways, assuming there
23 are seven of them, unless you also bury within our
24 scenic easements?

25 MS. AGRIMONTI: Objection, argumentative.

1 I think we have an issue for briefing, Your Honor.

2 EXAMINER NEWMARK: Sustained.

3 BY MR. THIEL:

4 Q Well, do you have an estimate for the cost of
5 undergrounding in those scenic vestments?

6 MS. AGRIMONTI: Objection, asked and
7 answered.

8 EXAMINER NEWMARK: Sustained.

9 MR. THIEL: Did he say no?

10 MS. AGRIMONTI: It's in the transcript.
11 He says he has a per mile estimate for
12 undergrounding and he has information about
13 transition structures.

14 BY MR. THIEL:

15 Q Isn't it a fact you don't know what the least cost
16 option is?

17 MS. AGRIMONTI: Objection, argumentative.

18 EXAMINER NEWMARK: Sustained.

19 BY MR. THIEL:

20 Q Have you read the Department of Transportation's
21 typical requirement for a memorandum of understanding
22 and a constructability report prior to issuing any
23 permits to a utility?

24 A No, sir.

25 Q So you're not aware of the fact that that is a

1 typical part of the Department of Transportation's
2 requirement for any utility crossing of any highway?

3 A I learned of that late for the first time, I believe
4 it's Mr. Fasick's testimony or surrebuttal testimony.
5 I did not learn that until sometime during prefiled
6 testimony.

7 Q But I believe you've been discussing this matter with
8 the Department of Transportation for several years;
9 is that correct?

10 A That's correct.

11 Q And did you talk with Mr. Fasick on a number of
12 occasions?

13 A Yes, several.

14 Q Are you at all familiar with ATC's Dane County
15 reliability project?

16 A I know the name. Is that the beltline project?

17 Q Yes.

18 A That is what I know about it, sir, it's the beltline
19 project.

20 Q What steps would you take to enter into such an MOU
21 and constructability report in order to say that the
22 Department of Transportation would even issue a
23 permit for crossing these seven assumed highway
24 crossings on the Q1 route? Correction, Q1-Highway 35
25 route.

1 A The Department of Transportation would have to tell
2 me what those requirements are, and they haven't been
3 discussed previously.

4 Q I'm not sure I got the right reference here; but in
5 your rebuttal testimony at page 4, lines 5 and 6, you
6 state, "I wish to note that applicants do not believe
7 any approval from WisDOT is required for construction
8 of the transmission facilities in the scenic
9 easements." Is that correct?

10 A That's correct, that's my understanding.

11 Q Are you also aware that DOT will not release any
12 scenic easements unless the line is constructed
13 underground?

14 A I seem to recall that in some of the later filed
15 testimony.

16 Q You say your -- in the same rebuttal statement, I
17 believe you say that your figures and costs are based
18 on the assumption that 1.1 miles of longitudinal
19 installation in scenic easement remains an issue.

20 MS. AGRIMONTI: Is there a question?

21 BY MR. THIEL:

22 Q Is that correct?

23 A Can you direct me to a page.

24 Q Actually, I cannot, but I think it's right in the
25 same area as the other one. It's where you put in

1 your undergrounding cost figures amount.

2 MS. AGRIMONTI: I can be helpful. It's
3 page 7 rebuttal.

4 MR. THIEL: Thank you.

5 A So I'm not sure if you had a question, or would you
6 repeat it, please.

7 Q Well, the -- have you provided costs to the
8 Commission based upon WisDOT's position regarding the
9 scenic easements and WisDOT's permitability, not just
10 your statement that it's an issue?

11 MS. AGRIMONTI: Objection, vague, I
12 don't...

13 A Can you restate --

14 MR. THIEL: I'll rephrase it.

15 Q You have major cost estimates on the assumption that
16 DOT's position on this is, how should I say, not
17 taken into consideration?

18 A No, sir. My estimates are based on overhead
19 construction which until -- there was no indication
20 until surrebuttal that the department had a position
21 that things needed to be underground. In fact, we --
22 I seem to recall communications that specifically
23 called out crossings could and would be overhead.

24 Q I think the Department of Transportation's position
25 is that the only way the Q1-Highway 35 route would be

1 permissible is if they went underground. It's not
2 that we're insisting that you take the Q1-35 route,
3 just saying if you want to take that route, you have
4 to put it underground. But you don't have -- the
5 fact of the matter is, you have no cost estimates for
6 that?

7 MS. AGRIMONTI: Objection --

8 MR. THIEL: I'm just confirming that.

9 MS. AGRIMONTI: Objection, asked and
10 answered. We've been over this several times.

11 EXAMINER NEWMARK: Sustained.

12 BY MR. THIEL:

13 Q Are you aware of where WisDOT may allow above-ground
14 installation on the Q1-35 route?

15 A I recall a description of underground in Mr. Fasick's
16 testimony. So I guess the rest of the places would
17 be overhead.

18 Q So you're not aware of the alternatives and where DOT
19 would allow overhead alternative routes; is that
20 correct?

21 A Prefiled testimony indicated in places where in
22 WisDOT's opinion the line should be placed
23 underground. So I presume the remaining parts of the
24 line could remain overhead. If you have a -- I don't
25 mean to be cute about it, but I don't recall any

1 testimony that says these are the places you can go
2 overhead. To the contrary, in surrebuttal, there
3 were places listed where the Department of
4 Transportation believes the line should be
5 underground.

6 Q Have you examined Mr. Fasick's direct testimony?

7 A Yes, sir.

8 Q Are you aware that on page 8 of that direct
9 testimony, which is now PSC reference 160638,
10 Mr. Fasick describes exactly where above-grounds
11 would be allowed and where underground would be
12 required?

13 A I believe a copy is being provided for me.

14 EXAMINER NEWMARK: What was your page
15 number again?

16 MR. THIEL: Starting at page 8. And
17 concluding at the top of page 10, line 3.

18 A The top of page 8?

19 Q Actually, it starts on -- the question is on line 5.

20 A And in the interest of time, is there one of these
21 segments you'd like me to read?

22 Q The Q1-Highway 35, since you say that's the least
23 costly option.

24 A Okay. I've read it.

25 Q And is your testimony still that that is the least

1 costly option?

2 A Applicants believe that the scenic easements allow
3 as -- in the permitted use section of the scenic
4 easements overhead installation. So it's our belief,
5 as I've stated before, that we respectfully disagree
6 and overhead transmission lines are allowed in those
7 scenic easements, so the cost estimates are still as
8 they are.

9 Q But do you disagree that the DOT would only issue a
10 permit for crossing the assumed seven crossings of
11 highways under our jurisdiction if you place the
12 lines underground in those scenic easements?

13 A I understand that that is your position.

14 Q Are you aware that we have unilateral authority to
15 make that decision at the DOT?

16 A I am not an attorney nor a real estate agent. But I
17 can tell you what I've been advised, which is what
18 I've been told, that WisDOT's -- this is my
19 understanding from my project team and my counsel,
20 you have permitting authority for highway
21 right-of-way and your interest in scenic easements
22 are of a landholder. And I've been advised that --
23 and the easements that I've read as not an attorney
24 are -- seem pretty clear to me, they call out
25 permitted use lines -- and this isn't a quote, but

1 lines to carry heat, light and power, et cetera,
2 those sorts of things.

3 Q But you're not aware that the DOT's responsibility
4 under its highway utility accomodation policy is not
5 to issue permits to cross highway right-of-way in any
6 area where -- of the scenic and natural beauty?
7 You're not aware of that?

8 MS. AGRIMONTI: Object to how he's
9 characterizing the accommodation policy, facts not
10 in evidence and argument.

11 EXAMINER NEWMARK: Did we already ask if
12 you assume that you're not going to permit overhead,
13 what the cost would be? I think you already asked
14 that question, right?

15 MR. THIEL: Yes, and he said he had no
16 estimate.

17 EXAMINER NEWMARK: So let's move on to a
18 different topic because we're just going over this.

19 MR. THIEL: Well, it's very important,
20 Your Honor. I mean we have seven crossings --

21 EXAMINER NEWMARK: I think we have the
22 answers we're going to get here. Otherwise you have
23 your testimony of your witnesses in evidence.

24 MR. THIEL: I have no further questions.

25 EXAMINER NEWMARK: Okay. Other cross?

1 CROSS-EXAMINATION

2 BY MS. OVERLAND:

3 Q Good afternoon, Mr. Stevenson.

4 A Good afternoon.

5 Q Just a quick -- you just had some discussion about
6 the Fasick direct, page 8, regarding the Q1 and
7 Highway 35, and there are also discussions there
8 about other options. So I wanted to clarify if it is
9 your understanding that the DOT's permitting
10 authority also extends to the Q1-Highway 35/88
11 Options A and B?

12 A I'm on page 8. And would you repeat that again,
13 please?

14 Q 8 and 9. Right. I just wanted to know is it your
15 understanding that the DOT's permitting authority
16 also extends to the Highway 88, Options A and B?
17 Their permitting authority, not, you know, the
18 statement that they will not issue a permit, but the
19 permitting authority.

20 A Permitting authority specifically regarding Highway
21 88?

22 Q Right, the 88 options, which is 88 Option A and B.

23 A Highway 88 is a state highway, and I assume they have
24 similar permitting authority over that state highway
25 as well, yes.

1 Q Just wanted to clarify that.

2 Okay. The question regarding ice roads in
3 winter. We've had a winter where not much is
4 freezing. How would -- would ice roads be effective
5 if we have a winter like this winter?

6 A It depends on location. It depends on the wetland.
7 It depends on the makeup of the wetland and whether
8 there is water flowing or not flowing. So it's more
9 or less site specific.

10 Q And about construction schedules, in your sur-sur on
11 page 3, you're saying that you were too optimistic in
12 estimating six years of construction. It would be
13 page 3 of your sur-sur.

14 A Yes.

15 Q Now, do you have, like, a Gantt table, Gantt chart
16 anywhere here that shows how it stretches out over
17 time?

18 A No, I do not.

19 Q Because I was looking at Exhibit 15, which has permit
20 duration months, and it's listing months, and
21 construction duration, which lists months, but it's
22 totaling 67 months, but you construct serially?

23 A What we do know in the investigation we have done
24 recently on the reconductor alternative is specific
25 to the construction durations. We know -- we knew

1 previously, and when I reassembled the team of system
2 operators, they affirmed the -- no two of those
3 projects can be rebuilt simultaneously.

4 Q Okay.

5 A So the construction part of it will have to proceed
6 on a serial basis. I made no attempt here in a Gantt
7 chart format to tell you how the permitting would go
8 together and when any of those segments could start.
9 That would be further work, and logic would say could
10 and probably would further lengthen that schedule.

11 Q So essentially you're saying that these are too
12 connected to be removed more than one at a time?

13 A That is very clear from our system operators, yes.

14 Q Okay. Regarding undergrounding. Now, you're the
15 cost guy on undergrounding; is that correct?

16 A I am the cost guy.

17 Q Okay. The estimate that you provided, was that for a
18 Mississippi River crossing, or was that an estimate
19 applicable anywhere?

20 A There is a Mississippi River crossing undergrounding
21 in our application. The number that we're referring
22 to here in prefiled testimony is a different study
23 that is for your typical over-the-ground open trench
24 style of underground construction.

25 Q And you just said that's a different study. Is that

1 a different study here somewhere that I'm missing?
2 I'm missing a lot right now I know, but is that in
3 the record?

4 A I am not sure.

5 MS. AGRIMONTI: The actual study is not in
6 the record.

7 BY MS. OVERLAND:

8 Q Would that study be similar to, say, like, the
9 undergrounding study for the middle of the
10 Brookings-Hampton route where it was just a
11 cross-country kind of undergrounding?

12 A I'm aware of two underground studies that CapX
13 utilities did. One was on the Brookings Project. It
14 focused on the Lakeville, Minnesota area, if I
15 recall, and the Fargo -- second one was the Fargo
16 underground study, similar type construction in the
17 Avon, Minnesota area.

18 Q Are the cost estimates for -- that you have in this
19 proceeding in the same range as, say, the
20 Brookings-Lakeville study?

21 A It's been a number of years, but I remember at one
22 time laying those two studies both on my desk, and I
23 recall that the costs were in the same general range.
24 Two different studies, two different engineering
25 firms, and they arrived at approximately the same

1 cost.

2 Q Is that a study that could be produced?

3 EXAMINER NEWMARK: The one that he's
4 referring to in his testimony today?

5 MS. OVERLAND: Right.

6 EXAMINER NEWMARK: In the sur-sur?

7 MS. OVERLAND: Not the Lakeville one, but
8 the one for this project where it seems to be very
9 needed.

10 MS. AGRIMONTI: We can provide that as a
11 late filed exhibit, Your Honor.

12 EXAMINER NEWMARK: All right. So what's
13 his next number here? 18? We'll mark it as 18
14 and --

15 MS. OVERLAND: 18.

16 EXAMINER NEWMARK: Stevenson.

17 (Stevenson Exhibit 18 designated for delayed receipt.)

18 MS. OVERLAND: Stevenson 18 was that?

19 EXAMINER NEWMARK: Yes. Now the
20 undergrounding cost study, good enough?

21 MS. OVERLAND: Yeah. Although I would
22 suggest it might incorporate more than just cost.
23 It might incorporate techniques, if it's anything
24 like their past studies.

25 EXAMINER NEWMARK: Well, just for

1 reference.

2 MS. AGRIMONTI: I will note it's a study
3 not specific to this project. It was for the CapX
4 Fargo line in the Avon area that Mr. Stevenson is
5 testifying about as a general cost assessment for
6 underground --

7 MS. OVERLAND: Actually, I was referring
8 to the -- more the Lakeville one than the Avon one.
9 There's a difference because Avon is like this, and
10 Lakeville is pretty flat.

11 MS. AGRIMONTI: Mr. Stevenson, which
12 reports did you base your cost estimates on?

13 THE WITNESS: Fargo or Avon, Minnesota.

14 MS. AGRIMONTI: We can provide them both
15 if Your Honor would like.

16 MS. OVERLAND: Your Honor, what I recall
17 he just testified about was he took the Lakeville
18 side by side and looked at them, and they were just
19 about the same.

20 EXAMINER NEWMARK: Okay. So 18 is Avon,
21 and 19 is --

22 MS. OVERLAND: Lakeville.

23 EXAMINER NEWMARK: Lakeville. Okay.

24 (Stevenson Exhibit 19 designated for delayed receipt.)

25 EXAMINER NEWMARK: Any other questions?

1 MS. OVERLAND: Yes. I'm just waiting for
2 him to finish.

3 EXAMINER NEWMARK: Okay.

4 BY MS. OVERLAND:

5 Q Okay. I've got your full attention. Regarding the
6 cost estimates for aboveground construction, I
7 notice, you know, Mr. Hahn in the application, and I
8 don't remember where, but the highest segment,
9 highest cost segment was deemed to be the Mississippi
10 River crossing at, like, 7 million a mile. Does that
11 sound --

12 A Are you referring to all the -- the entire project?

13 Q No, no, no. That's the thing, I'm not. I'm
14 referring to the segment about the Mississippi River
15 crossing where Mr. Hahn pointed out that it was
16 roughly 7 million per mile for that area, that it was
17 the most expensive part to construct. Do you recall
18 that?

19 A I don't recall Mr. Hahn's statement, but the
20 Mississippi River crossing is the highest cost
21 segment.

22 Q Okay. And when you're considering undergrounding and
23 a comparison of the cost of undergrounding with the
24 comparison of building the segment, what kind of
25 ratio do you end up with? Rather than considering

1 the average cost per mile, which is much lower. When
2 you're looking at the Mississippi River crossing with
3 that higher cost, how does undergrounding and the
4 cost of undergrounding compare with that higher cost
5 segment?

6 A I want to make sure I'm answering the right question.
7 Are you asking me what's the comparison at the river
8 crossing, overhead and underground?

9 Q Right. Now we're on river crossing, right.

10 A The entire river crossing, including both Minnesota
11 and Wisconsin, because it was studied as one segment
12 since it's unique construction.

13 Q Right. And to cross it goes from one --

14 A Is on the order of -- the number's in the
15 application. I recall \$12 million. I don't remember
16 if that's per mile or for that segment. The
17 Mississippi River underground was \$70 million.
18 Again, I don't remember if it's that segment or per
19 mile. We presented the information in two -- it's
20 1.3 miles in the segment that I define as the
21 Mississippi River crossing. So what I'm confusing is
22 my cost for 1.3 or one mile.

23 Q And that will be reflected in the record in the
24 documents, correct?

25 A The underground Mississippi River crossing is, I

1 believe, an appendix to the application.

2 Q Right.

3 A And then in that appendix, I believe we call out
4 overhead costs and underground costs and describe the
5 length in the preamble section to the study.

6 Q And you're saying that -- well, it'll say what it
7 says. That's okay. Just a minute.

8 Oh. Your Exhibit 4 says AC electromagnetic
9 study. I don't necessarily want you to refer to it,
10 but I'm going to -- are you the EMF guy? I don't
11 think you are. Is that Mr. Hillstrom?

12 A I'm not the EMF person, but this exhibit isn't
13 necessarily about EMF.

14 Q Right. It's not, and that's what I was wondering
15 about.

16 Okay. Let's see. However, if you look at
17 page -- I think it's number 9. I've got 65, but I
18 think it's page 9 where it talks about the specs for
19 the line.

20 A I'm sorry, page 9 of --

21 Q Page 9, I believe, of your direct.

22 A My direct. Okay.

23 Q Sorry. Actually, before we get to the specs, above
24 that on page 9, you're talking about the
25 double-circuit capable. Why aren't you doing it that

1 way here -- proposing to do that here in Wisconsin?

2 A Specifically what are you asking about?

3 Q You know, we got -- you got the CPC -- the
4 certificate of need for double-circuit capable. Why
5 aren't you doing that here in Wisconsin?

6 A Well, there's a number of factors. We didn't propose
7 a double-circuit capable in Minnesota as you recall.
8 Neither did the intervenors. Two intervenors
9 proposed higher-capacity lines than what we proposed,
10 and the end result was a double-circuit capable line.

11 We, the Applicants, and our member
12 utilities considered whether we should continue that
13 into Wisconsin. And for a number of reasons they
14 elected not to. It got to -- or the criteria and the
15 approvals that would be necessary to propose
16 something like that. That's my recollection, but we
17 had a specific conversation with our owners about
18 whether that should be proposed, and we elected not
19 to, other than some short segments depending on
20 route.

21 Q Meaning planning ahead for it just in case. You
22 mean, like, for the river crossing or -- is that what
23 you mean?

24 A Well, if you recall in Minnesota, we proposed a
25 single-circuit 345, and we were overtaken by

1 circumstances. And we exited that proceeding with a
2 double-circuit capable line. The utilities
3 considered whether we should propose double-circuit
4 capable into Wisconsin, and what we decided was, for
5 a number of factors, we would propose double-circuit
6 capable a short distance to some place where it
7 could -- a substation might one day be built and --
8 because there are five 161 lines in the area. So
9 carrying the double-circuit capable far enough into
10 Wisconsin that would give future options to planners
11 was deemed the prudent step, and that's what we put
12 in our application.

13 Q So essentially you're crossing the river to some land
14 where -- is that essentially it?

15 A Where some planners could --

16 Q Throw a substation in?

17 A -- devise some solution at some day in the future,
18 yes.

19 Q Okay. Then moving down there on page 9 to the next
20 part, you give the specs of the conductor for the 345
21 first. And in this part, would you agree that the
22 summer rating would be, like, 2,050 for the single
23 circuit and 4,100 for the double, which for the most
24 part isn't considered here?

25 A 2,050 and --

- 1 Q 2,050 MVA for bundle.
- 2 A Yes. The conductor that we called out here, a double
3 bundle of 954 ACSS is nominally thermally rated at
4 2,000 megawatts. 2,050, 2,000, in that vicinity.
- 5 Q And it is definitely bundled? Because it doesn't say
6 that here.
- 7 A Yes. We proposed two conductors per phase. Pretty
8 standard design for 345.
- 9 Q And that's standard for you, but it's not been stated
10 here in this.
- 11 A Okay.
- 12 Q So you're talking 2,000 MVA. And then did I miss the
13 161, what that summer rating is?
- 14 A I don't have it committed to memory, that 795 ACSS
15 rating.
- 16 Q Is that bundle also?
- 17 A No.
- 18 Q No? Just one second. I want to throw a subject to
19 check. That's ACSS also, correct?
- 20 A Correct.
- 21 Q 161 single circuit. Would you accept, subject to
22 check, that it would be around the order of close to
23 500 MVA?
- 24 A That sounds about right.
- 25 Q Okay. Thank you. And on page 68 -- that doesn't

1 help. Just a minute. That would be page 12. We're
2 talking about the substations and the layout of the
3 substations. I think it would be page 12. It might
4 be page 13. Should be page 12, your direct.

5 A Yes, I'm there.

6 Q And is any vegetation proposed around the substation?

7 A As screening?

8 Q Visual and audio.

9 A Are we proposing to install any?

10 Q Yeah.

11 A Not to my recollection, but Mr. Hillstrom would be --

12 Q Hillstrom's the one --

13 A -- better informed.

14 Q Okay. And so he would also address sound?

15 A Yes, I believe so.

16 Q Okay. And on page 15, you're talking about
17 helicopters, and I know that you've been using
18 helicopters a lot for just the general construction.
19 And is it correct that in Wisconsin it looks like the
20 use of helicopters is going to be a little less --
21 less used than in Minnesota?

22 A Is there a specific line number?

23 Q Yeah, lines 21 and 22.

24 A Okay.

25 Q It seems that you're restricting use of helicopters

1 to areas without ground-based construction access,
2 and in Minnesota you've been using them pretty
3 regularly.

4 A These lines of testimony specifically talk about
5 heavy lift in some sensitive areas, which is an offer
6 we made to the Department of Natural Resources. Its
7 use of helicopters in the stringing operation is
8 becoming more and more one of the standard techniques
9 available to constructors of transmission lines. So
10 it's possible that helicopters might be used in some
11 of those stringing operations. Particularly, we have
12 some spans from ridge to ridge, hill to hill, that
13 are fairly long and otherwise difficult to get
14 between.

15 Q So this is just here because you're talking about
16 specific places, but you may use it generally as
17 well?

18 A There's two types of helicopters. Heavy lift is
19 different than the small helicopter that's used for
20 stringing operations. This talks about heavy lift to
21 carry in poles, and it's also in the same section
22 where we're talking about ice roads. So that's in
23 relation to construction in sensitive areas. There
24 is another type of smaller helicopter that's used for
25 stringing operations.

1 Q And would that also then be something more for
2 Mr. Hillstrom, or is that also your department --

3 A Depends on what the --

4 Q -- because it's construction.

5 A Depends on what the question is.

6 Q Oh. The question would be construction techniques in
7 sensitive areas. That's you?

8 A It's probably an overlapping area.

9 EXAMINER NEWMARK: Let me just inject
10 because I'm curious. Ms. Overland mentioned in her
11 perception there are more helicopters used in
12 Minnesota, or seems to be more of a general
13 practice, and you -- but you would relate that to
14 the stringing operations, the fact that you would
15 see more helicopters than just --

16 THE WITNESS: I believe -- and she could
17 tell us because she's referring to the first phase
18 of the CapX Fargo Project. We used both type of
19 helicopters there. The lighter helicopters for
20 stringing, and we used the heavy-lift helicopter to
21 install three poles in a wetland area in lieu of ice
22 roads. So we used both there, and it's a
23 standard -- it's becoming a standard technique that
24 I would expect that we may employ as well.

25 EXAMINER NEWMARK: Thanks.

1 BY MS. OVERLAND:

2 Q I thought of that going down the beltway today
3 watching them stringing the lines this morning, where
4 they're doing it manually on the ground rather than
5 helicopters.

6 Okay. Page 18 where you're talking about
7 railroad -- permission from railroads, BNSF and
8 Chicago Northwestern on page 19.

9 A Yes.

10 Q I have a question about permission to cross. Is that
11 through an easement, or are you leasing the land?

12 A My understanding is through permit.

13 Q Through permit. Is that permit from the company,
14 correct?

15 A From the railroad company, yes.

16 Q From the railroad. Do you get paid for that?

17 A My understanding there is some nominal fee that's
18 involved. I don't recall what it is.

19 Q Is it an annual fee or just a one-timer?

20 A I don't recall, but I do know that we have a
21 programmatic agreement or some sort of agreement with
22 Burlington Northern Santa Fe that covers a lot of
23 what we do, and it also speaks to the permit cost,
24 which I understand are pretty -- actually quite
25 small. I don't know if they're one time or annual.

1 Q Okay. I think we're almost done. Oh, okay. Would
2 you agree that in Minnesota there was also an issue
3 regarding the DOT and scenic easements?

4 MS. AGRIMONTI: Objection. Outside the
5 scope of this proceeding. Different easements,
6 different agencies.

7 MS. OVERLAND: Your Honor, the reason I
8 raise this is that it was an issue, and there seems
9 to be a pattern of not paying a lot of attention to
10 what the DOT is -- their policy of accomodation.

11 EXAMINER NEWMARK: I'm going to sustain
12 the objection. I don't see how we can combine those
13 things at this point, but --

14 MS. OVERLAND: Okay. I'll find a way to
15 do it on the brief.

16 Okay. No further questions.

17 EXAMINER NEWMARK: Other cross?

18 CROSS-EXAMINATION

19 BY MS. CORRELL:

20 Q I just have a quick clarification. Thank you,
21 Mr. Stevenson. I'm Megan Correll from the DNR, and I
22 would like to refer you to page 19 of your direct
23 testimony. Let me know when you get there.

24 A I'm here.

25 Q Are you set?

1 A Yes.

2 Q You testified that during construction the most
3 effective way to minimize impacts is to avoid wet
4 areas, streams, and rivers; is that correct?

5 A That's correct. When possible.

6 Q And I just want to clarify for the record. When you
7 refer to wet areas, given the context of your
8 question regarding environmentally sensitive or
9 wetlands, would it be fair to say that you're
10 including wetlands in your description of -- strike
11 that.

12 Would it be fair to say that when -- you
13 stated that you were including wetlands within types
14 of impacts that you would try to avoid first?

15 A Is there a specific line number I should refer to?

16 Q Well, yes. It's the lines 11 and 12. I just read
17 that same sentence, and you refer to wet areas. Can
18 you clarify what you mean by that?

19 A Sure. I just --

20 Q I assume, is it fair to say that it includes
21 wetlands?

22 A Yeah. If you give me a moment to just reread.

23 Q Oh, yeah.

24 A The first sentence, during construction the most
25 effective way to minimize impacts --

1 Q Okay.

2 A -- is to avoid wet areas, streams, rivers?

3 Q Right.

4 A Yes.

5 Q Okay. So -- because I wasn't sure the way you
6 answered. You did clarify that that includes
7 wetlands, the wet areas, correct?

8 A Yes. When possible, yes.

9 MS. CORRELL: Okay. That's all I have.
10 Thank you.

11 CROSS-EXAMINATION

12 BY MS. RAMTHUN:

13 Q Mr. Stevenson, I have a couple cost-related
14 questions. I guess, as you know by now, I'm Diane
15 Ramthun of the Commission.

16 A Yes. Good afternoon.

17 Q Referring first to Exhibit 11.

18 A I'm there.

19 Q If you look at the columns under estimates, the
20 Minnesota column under estimate, the Minnesota column
21 under cost, and I'm looking at the reconductor only
22 row -- the two rows I'm concerned with are
23 reconductor only and reconductor only with Minnesota
24 345 kV. Do you see those rows?

25 A Yes, I do.

1 Q Am I correct that the -- and again, I'm referring to
2 the Minnesota estimates. The Minnesota estimates and
3 costs include connecting an existing 161 kV to the
4 new CapX 345 kV line?

5 A Under reconductor only and reconductor with Minnesota
6 345?

7 Q Well, actually my question before I get to those
8 specific rows is, does the -- do the estimates and
9 costs include connecting an existing 161 line to the
10 proposed 345 kV line?

11 A I'm -- some of the alternatives that are on this
12 table include connecting to a 345 and some do not.
13 So that's why I was asking for a clarification about
14 which of the alternatives.

15 Q Well, does the reconductor only include --
16 reconductor only with Minnesota 345 kV, does that
17 include connecting to an existing 161 kV line to the
18 new Minnesota 345 kV line?

19 A In Minnesota, the reconductor with Minnesota 345
20 costs assume building 345 as approved in Minnesota to
21 satisfy the Rochester area load into the existing
22 network, which is 161 in the Rochester area. Is
23 that --

24 Q And then the costs include connecting to the 161
25 network there?

1 A In Rochester, yes. The Minnesota costs do, yes.

2 Q And just one other question. Does your Exhibit 13 --
3 I think you stated this, but I want to make sure.
4 Exhibit 13 does not include the various
5 undergrounding costs that you just talked about on
6 cross-examination with the parties?

7 A That is correct.

8 MS. RAMTHUN: No further questions. Thank
9 you.

10 EXAMINER NEWMARK: Redirect?

11 MS. AGRIMONTI: Your Honor, none.

12 EXAMINER NEWMARK: None? Okay. We have
13 one more witness for the Applicants?

14 MS. AGRIMONTI: We do, Your Honor.

15 EXAMINER NEWMARK: We can take ten minutes
16 and get back. And if we can finish up the
17 Applicants today, that would be great.

18 MS. AGRIMONTI: May we go off the record
19 for a moment?

20 (Discussion off the record.)

21 (Recess taken from 4:35 to 4:45 p.m.)

22 (Change of reporters, 4:45 p.m.)

23 (Discussion held off the record.)

24 VINCENT MOSCA, CLEAN WISCONSIN WITNESS, DULY SWORN

25 EXAMINER NEWMARK: Okay. Let's go ahead.

1 DIRECT EXAMINATION

2 BY MS. WHEELER:

3 Q Mr. Mosca, can you please state your full name and
4 place of employment for the record.

5 A My name is Vincent J. Mosca. I'm with Hey and
6 Associates, Inc., 26575 West Commerce Drive, Volo,
7 Illinois 60073.

8 Q Thank you. And did you prepare direct and
9 surrebuttal testimony in this proceeding?

10 A I did.

11 Q And did you also prepare, I think, 13 exhibits in
12 this proceeding?

13 A I believe that's correct.

14 MS. WHEELER: Mr. Mosca is available for
15 cross.

16 EXAMINER NEWMARK: Okay. I have 11 on my
17 list.

18 MS. WHEELER: I'm sorry, 11.

19 EXAMINER NEWMARK: All right. Cross-exam?

20 MS. HERRIG: Yes, Your Honor. I just have
21 one quick question for you, Mr. Mosca.

22 CROSS-EXAMINATION

23 BY MS. HERRIG:

24 Q I'm looking at your resume, which is Exhibit 1 to
25 your testimony. Am I correct that you've never been

1 involved in a CPCN proceeding before?

2 A That is correct.

3 MS. HERRIG: That's all I have.

4 EXAMINER NEWMARK: Okay.

5 MS. OVERLAND: I do have some.

6 CROSS-EXAMINATION

7 BY MS. OVERLAND:

8 Q Let's see. Page 5, line 15.

9 EXAMINER NEWMARK: Of direct or --

10 MS. OVERLAND: Of direct. I don't think
11 I'll get past direct. Let's see.

12 BY MS. OVERLAND:

13 Q You're pointing out some inconsistencies and
14 uncertainties in this regarding wetlands, and it's
15 been established you haven't worked on a CPCN
16 proceeding before, but in the work that you've done,
17 is this -- are you accustomed to finding this level
18 of inconsistency or uncertainty, or is that something
19 different?

20 A Actually, the nomenclature that's used in this
21 application is not conventional to most other
22 projects that would have wetland impacts.

23 Q How so?

24 A The easiest answer is that generally an applicant
25 that would propose wetland impacts for either a

1 highway project, a sanitary sewer project, or a
2 retail mall would have essentially categories that
3 would say preserve wetland or impacted wetland. This
4 application had other nomenclatures in it like
5 permanently modified habitat, temporary impacts,
6 permanent impacts, affected habitat, those kind of
7 things in various documents, both the applicant and
8 the EIS. So it was hard to compare apples to apples
9 on what would be an impact or not.

10 Q And do you think there are ways that that could be
11 altered so that you could compare apples to apples,
12 or are you stuck -- are we stuck here with apples and
13 semantics?

14 A The application has what the Applicant has
15 considered, permanent and temporary impact. My point
16 in my testimony was that that didn't seem to
17 accurately reflect potential other impacts that in
18 other -- other documents in the application seem to
19 indicate that there would be additional impacts,
20 including forested wetland impacts.

21 Q Do you think that the application deals adequately
22 with representing, like, forest, which will have a
23 permanent impact, compared to some other kind of
24 terrain or feature where it can recover over time
25 because you can't grow forests underneath the lines?

1 A I think that the application has done a reasonable
2 job in documenting the acreage that may be impacted,
3 but I'm not convinced that the application is as
4 thorough in considering that as a true impact and
5 what mitigation measures would be used.

6 Q And so you're talking about more not just the
7 numbers, but the qualitative aspects of the impact;
8 is that what you're saying?

9 A Well, actually what -- under the regulatory climate
10 of needing compensatory wetland mitigation or true
11 apples-to-apples comparison between routes on how
12 much impact would be, I'm not so sure that the
13 application is clear to most readers on what actually
14 is going to be impacted and not.

15 Q Okay.

16 A And also given that some of the routes are on private
17 property and have not been thoroughly documented yet,
18 so -- and I understand that the Applicant can't get
19 access to that. But from a review standpoint, if
20 some of the routings have not even been thoroughly
21 bedded from a resource standpoint, it's hard to tell
22 how much would actually be impacted or not.

23 Q Isn't that something that where a lot of the
24 information is available through agency records and
25 even Google Earth?

1 A Yeah. The Applicants' very clear on their
2 methodology, which I'm actually quite comfortable
3 with --

4 Q Okay.

5 A -- from an overall documentation standpoint, but it's
6 the interpretation and how that information is then
7 used as an impact analysis that I have more issues
8 with.

9 Q Okay. Does it appear to you that they've done
10 everything they can do to minimize construction
11 impacts?

12 A The easiest answer is no.

13 Q Okay. I'll take that. What kinds of things do you
14 think could be done or suggested to be done that have
15 not been addressed?

16 A Well, I think that the application -- and I'm sort of
17 sympathetic to the Applicant, they can't have
18 everything figured out ahead of time.

19 Q Uh-huh.

20 A But access to wetlands, whether it's perpendicular to
21 the right-of-way or you're perpendicular or parallel,
22 depending whether you have access from upland areas,
23 et cetera, construction season, depth of the water,
24 all those things. You know, it's easy to say we'll
25 minimize impacts when practicable, but if it's not

1 practicable, you're never quite sure what's going to
2 happen. And then also some of the impacts, whether
3 they're going to actually restore them to their
4 original quality and that are very -- not well
5 documented in the application at this point.

6 Q So is some of that throwing things into a catchall --
7 when it's practicable, just throwing it into a
8 catchall and not going beyond that?

9 A Right.

10 Q Okay.

11 A I'm comfortable that the Applicant and their
12 contractors know how to conduct their work, but on
13 any given day in certain types of wetlands, it's more
14 important to have the A-Team on that crew than just a
15 run-of-the-mill level.

16 Q Okay. Looking at page 11, starting at lines four, in
17 that first paragraph -- well, actually, say, page 11,
18 that question. First question, one through 11, now,
19 given the inadequacies that you've described, are you
20 aware of any documented route alternatives that might
21 have potentially acceptable or manageable
22 mitigatable -- mitigatable impacts on wetlands?

23 A In some ways all of the routes are equal, that they
24 will all have wetland impacts. They will all have
25 forested wetland impacts, both -- or permanent and

1 temporary impacts. The Q1-35 route, which I think is
2 becoming clear that has other issues besides natural
3 resource issues that some of the agencies have talked
4 about. So, from that standpoint, all of the routes
5 have issues from an environmental standpoint, which
6 is to be expected.

7 So the easy answer is, that if you avoided
8 the Van Loon Bottoms or the Q1-35 routing, that
9 almost by definition would probably have the least
10 environmental impacts because that's more of an
11 upland route and going away from sort of the
12 identified highest quality wetlands in the corridors.

13 Q Okay. That helps. Let's see. If you go to line
14 15 -- page 15, I mean. Down at the bottom, and
15 you've talked about this somewhat, I think, where
16 you're saying the process -- typical process wasn't
17 followed. Is it an issue of they can't accurately
18 state the impacts, or just it just hasn't been said?

19 MR. ZIBART: Objection. Outside the scope
20 of the witness's knowledge.

21 EXAMINER NEWMARK: Well, can you rephrase
22 that? I'm not sure --

23 BY MS. OVERLAND:

24 Q What I'm wondering is, in your testimony where it
25 says accurately -- just a second. Let me see where

1 that is. That's in that part. You're testifying
2 regarding what additional studies are required in
3 order to accurately determine wetland impacts. So
4 I'm wondering if that's, like, something that can be
5 done with, like, you know, more study, or if it's not
6 within the realm of possibility to do?

7 A In general, in normal wetland delineation-type
8 projects, you would actually have a boundary flagged
9 in the field. It would be surveyed into a project
10 document and then verified by the agencies. In this
11 case the scope of the project, access, they've all
12 been mostly estimated, either visually estimated from
13 the field, aerial photography interpretation, and
14 those types of things. So I think that the Army
15 Corp. has indicated that if in fact they believe that
16 a boundary needs to be more defined in the field,
17 they may require that at some point in the future,
18 but right now the boundaries are only estimated,
19 maybe conservatively, but still only estimated.

20 So on any given spot on any given
21 structure or access route, one of the agencies could
22 require that a field boundary is placed so that silt
23 fencing or access routes can be determined more
24 definitively in the field.

25 Q And you testified that the Army Corp. won't consider

1 wetland permanent application complete unless the
2 impacts are adequately stated. Is it clear from what
3 you've seen what areas are affected and necessary for
4 an Army Corp. permit?

5 A It's relatively clear where the impact will be
6 necessary.

7 Q Okay. Where the -- or where the permit would be
8 necessary?

9 A Well, it's relatively clear -- the routings are set.
10 So whichever routing is chosen, the wetlands have
11 been documented, at least to type and to size. So if
12 the Applicant is proposing a structure in a certain
13 area, an access route or a conversion of forested
14 wetland, you will know where those impacts will be.
15 But I'm not confident that they're all fully
16 documented or labeled as such in the current
17 documentation.

18 Q Okay. I think I get that. Do you know, to your
19 knowledge, has there been an avian protection plan
20 developed?

21 A I'm not aware of that.

22 Q Okay. Is that within your realm?

23 A I did not necessarily focus on a lot of the -- a lot
24 of documentation outside of the -- those most
25 directly related to the wetland areas.

1 Q Okay. Typically in wetlands, is that a bird
2 attractant? Is there a nexus between wetlands and
3 birds?

4 A Certain types of birds, certainly.

5 Q Let's see. Page 19, line 13 -- well, that paragraph
6 starting at 13 and then particularly lines 22 through
7 24, and that's page 19 of your direct. And you
8 testified that you have concerns about whether the
9 overall category of environmental cost has been
10 grossly underbudgeted. Do you think it has been?
11 Are you're saying there's concerns? Well, that's
12 kind of iffy. Is it -- do you think they have been
13 grossly underbudgeted?

14 A In rebuttal or surrebuttal testimony of the
15 Applicant, they've indicated that was incorrect, that
16 the environmental category of the budget does not
17 include things such as right-of-way restoration and
18 wetland mitigation, so that the category that I
19 specifically spoke of on page 19 here did not include
20 that. So I may have been incorrect that they have
21 underbudgeted in that category; however, I still have
22 issues that they didn't adequately budget under their
23 right-of-way prep category, which the Applicant had
24 clarified is where that money would have been
25 allocated.

1 Q Okay.

2 A But it's just a line item with no allocation by task,
3 so it's hard to tease out how much had been
4 allocated -- allocated for each individual task.

5 Q So meaning that, like, the way it's been presented,
6 it's hard to tell what it all includes?

7 A Correct.

8 Q Other than, like, guess and they're wrong, and then
9 it's really here, and then it doesn't also show that
10 it's here in the other place, correct?

11 A To my satisfaction, I'm not sure that it's been
12 adequately budgeted with what I know at this point.

13 Q Okay. Let's see. On page 20, lines 23 through 26,
14 you express a concern that there isn't enough time
15 for the DNR approvals. Well, there's not much time
16 to review and that it might be difficult to do an
17 adequate analysis. Does that remain a concern?

18 A Yes.

19 Q Is it -- could information be provided -- how do you
20 avoid that? Is it, like, built into the process?

21 A I believe that it's a requirement under Act 89 that
22 the DNR is required to give a permit application. I
23 guess -- I say approval. I guess I don't know that
24 they automatically have to approve the application,
25 but they may have to.

1 Q Uh-huh.

2 A But they have a 30-day review period to render their
3 opinion, which I believe generally will end up in an
4 approval. So they have 30 days from the time the PSC
5 gives the order.

6 Q And 30 days for any project, no matter how large?

7 A For these types of projects, which is not -- which is
8 not a requirement for a fill for a drug store.

9 Q To your knowledge, has the DNR ever denied a permit?

10 A Not to my knowledge.

11 Q Let's see. And your bottom line -- well, it's not at
12 the bottom, but on page 22 you state that given the
13 insufficient field level -- insufficient level of
14 field verified data, blah, blah, blah, you would not
15 be comfortable recommending any of the proposed
16 routes for approval by the PSC. Have you seen
17 anything since then in any of the testimony that
18 changes that opinion?

19 A No.

20 MS. OVERLAND: No further questions.

21 EXAMINER NEWMARK: Other cross?

22 (No response.)

23 EXAMINER NEWMARK: Okay. Redirect.

24 MS. WHEELER: Yep. I've got just a couple
25 of follow-ups.

REDIRECT EXAMINATION

BY MS. WHEELER:

Q Mr. Mosca, you stated you've never been involved in a CPCN process before in Wisconsin. Can -- have you been involved in any other types of corridor work?

A I've worked on electrical transmission corridor projects in Illinois. I've done sanitary sewers, highway corridors, recreational drill projects that have spanned 20, 25 miles.

Q Okay. I also just wanted to clarify from an answer you gave earlier. At this time do you believe there's enough information about wetland impacts for the Army Corp. of Engineers to issue a permit?

A No.

Q And then finally, about -- about some of the budget questions that Ms. Overland had asked you about, can you state specifically what types of budget items you're concerned that they've omitted from the right-of-way prep item on their budget?

A There's two main categories. The Applicant has indicated that they believe that they will need to do wetland mitigation for conversion of forested wetland to open wetland. I've not seen any budget figure or any kind of real mitigation plan that would address that, so -- and then also there's an expectation, and

1 the Applicant has indicated that, that there will be
2 some several year follow-up management monitor
3 reporting plan and implementation to restore
4 temporary impacts along the corridor. And at this
5 point I don't know that that's been budgeted for.

6 MS. WHEELER: Thanks. I have no further
7 questions.

8 EXAMINER NEWMARK: Okay. I was just
9 curious. I note that there was an issue about the
10 Army Corp. of Engineers, and in that exhibit of
11 yours, I think it's Exhibit 9, there's talk about
12 jurisdictional determinations. Do you know where
13 the Army Corp. is asserting jurisdiction in the
14 project?

15 THE WITNESS: I do not. They -- I don't
16 know that they've been asked for a jurisdictional
17 determination at this point, but in a simple
18 standpoint, anything that -- any wetland that will
19 flow to a navigable water would be under their
20 jurisdiction, which would probably be the majority
21 in this part of the state.

22 EXAMINER NEWMARK: Okay. So they would
23 have the potential to -- they would have the
24 opportunity to have to permit most of these wetland
25 impacts or --

1 THE WITNESS: That's my expectation.

2 EXAMINER NEWMARK: But they'd actually
3 have to start that process, or how do they --

4 THE WITNESS: They would have to -- I
5 think at some point, once the corridor has been
6 chosen, if one is, then an application will be
7 submitted under 404 of the Clean Water Act to the
8 Army Corp., and then the expectation is there's an
9 individual permit that would be required with the
10 public notice period and alternative's analysis as a
11 part of the federal requirement under the Clean
12 Water Act.

13 EXAMINER NEWMARK: Okay. Does that
14 relate -- how does that relate to the DNR permits?
15 Do they overlap, or are they distinct?

16 THE WITNESS: They overlap, but the
17 Wisconsin DNR is sort of the water quality
18 certification under the Clean Water Act. That's the
19 401, that's Code NR3 in Wisconsin. But they
20 overlap. There's similar parts of it, but the Army
21 Corp. is the lead agency when it comes to the
22 wetland impacts.

23 EXAMINER NEWMARK: Okay. Thanks.

24 Okay. Anything else?

25 (No response.)

1 EXAMINER NEWMARK: Okay. You're excused.

2 (Witness excused.)

3 EXAMINER NEWMARK: So is that all we have
4 for today? You hope.

5 All right. Anything we need to deal with
6 on the record before we go? Outstanding issues?

7 No.

8 Okay. Let's go off the record then.

9 MS. OVERLAND: What time tomorrow morning?

10 EXAMINER NEWMARK: 9 o'clock. Let's see
11 you tomorrow.

12 (The hearing adjourned at 5:10 p.m.)

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1 STATE OF WISCONSIN)

2 MILWAUKEE COUNTY)

3

4 We, JENNIFER M. STEIDTMANN, RPR, CRR,
5 Registered Professional Reporter, Certified Realtime
6 Reporter, Notary Public, and LYNN PEPPEY BAYER, CM,
7 Certificate of Merit, Notary Public, with the firm of
8 Gramann Reporting Ltd., 710 North Plankinton Avenue, Suite
9 710, Milwaukee, Wisconsin, do hereby certify that we
10 reported the foregoing proceedings had on March 5, 2012,
11 and that the same is true and correct in accordance with
12 our original machine shorthand notes taken at said time
13 and place.

14

15

16 _____
17 Jennifer M. Steidtmann
18 Registered Professional Reporter
19 Certified Realtime Reporter

20

21

22 _____
23 Lynn Peppy Bayer
24 Certificate of Merit

25

26 Dated this 6th day of March, 2009.
27 Madison, Wisconsin.

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