

1 ENRIQUE BACALAO, STAFF WITNESS, AFFIRMED

2 DIRECT EXAMINATION

3 BY MR. JELINSKI:

4 Q Good afternoon, Mr. Bacalao. Could you please state
5 your name for the record.

6 A Yes. Enrique, E-N-R-I-Q-U-E; Bacalao, B, as in boy,
7 A-C-A-L-A-O.

8 Q I'm sorry, I don't quite have the same roll off the
9 tongue as you do. So I apologize for that.

10 A That's okay. Don't worry. You can mispronounce it
11 any way you want. Just don't ask me to mispronounce
12 it.

13 Q Did you cause to be filed surrebuttal testimony in
14 this case?

15 A Yes.

16 Q And it doesn't appear you had any exhibits.

17 A Okay.

18 Q And to the best of your knowledge, are the statements
19 and representations in that testimony true and
20 correct?

21 A Yes.

22 Q And if I asked you the same questions today, would
23 you provide the same answers?

24 A Yes, I would.

25 Q Is there anything that you would like to modify or

1 add to the comments that you filed?

2 A No, there isn't.

3 Q And after listening to the testimony of some other
4 witnesses, including applicants' witness
5 Mr. Pfeifenberger, is there sur-surrebuttal testimony
6 you would like to offer today?

7 A Yes, it is.

8 Q Are you the same Enrique Bacalao that submitted
9 sur-surrebuttal testimony in this proceeding?

10 A Yes.

11 Q And what is the purpose of your sur-surrebuttal
12 testimony?

13 A The purpose of my sur-sur-surrebuttal testimony --

14 Q Oh, thank you.

15 A My first, is the response to sur-surrebuttal
16 applicants Pfeifenberger.

17 Q Mr. Pfeifenberger notes that the 8.41 percent WACC
18 estimate that the Commission staff identifies appears
19 to be the weighted average of the cost of debt and
20 equity of ATC calculated without considering the tax
21 advantage of debt. Do you have any observations
22 regarding Mr. Pfeifenberger's testimony on this
23 matter?

24 A Yes. Mr. Pfeifenberger is incorrect.

25 Q Could you please elaborate.

1 A Commission staff did not estimate the 8.41 percent
2 value, did not overlook the tax advantage of debt,
3 and did not assume that the value applied only to
4 ATC. As set out in the direct Commission Vedvik, the
5 applicants themselves jointly estimated that value
6 and then offered it in response to a data request
7 made by Mr. Vedvik.

8 I did not interpret the data request
9 response to apply only to ATC. The spreadsheet
10 attached to that data request response calculates the
11 discount rate in tab "ATC-ARR" as shown in cell L, as
12 in London, 16 which is linked to cell C, as in
13 Charlie, 392. Capital structure and tax calculations
14 also appear on that same spreadsheet on a blended and
15 weighted basis. There are also separate tabs
16 dedicated to analyzing the individual investing
17 companies, including one entitled, quote, project
18 allocations, unquote. Therefore, Commission staff
19 did not estimate ATC's WACC, as presumed by
20 Mr. Pfeifenberger, but rather used the data request
21 response to determine the discount rate that the
22 applicants had themselves calculated jointly.

23 Q Do you believe there was any ambiguity in
24 Mr. Vedvik's direct testimony that might have created
25 some degree of confusion on this point?

1 A No, not in my opinion. Mr. Vedvik states clearly
2 that the applicants, in the plural, assume a weighted
3 average cost of capital of 8.41 percent, which could
4 better reflect the actual cost of transmission
5 customers are paying for the proposed project, and
6 could be more representative of the risk to Wisconsin
7 transmission service customers associated with the
8 proposed project.

9 Q Is Mr. Pfeifenberger correct when he stated that the
10 discount rates to evaluate project costs and benefits
11 from investors' perspective, like under the capital
12 budgeting approach, should be based on the overall
13 cost of capital associated with the project, net of
14 the tax benefits of debt financing, which is
15 generally referred to as the aftertax weighted
16 average cost of capital, ATWACC, or simply the
17 W-A-C-C, or WACC?

18 EXAMINER NEWMARK: Off the record for a
19 minute.

20 (Discussion off the record.)

21 A Yes, he is, provided the borrower in question
22 qualifies for interest rate cost reduction under the
23 governing income tax rules and regulations and can
24 make use of that tax deduction. Consistent with this
25 concept, my review of the data response cited above

1 suggested that the applicants had indeed adjusted the
2 estimate cost of debt to reflect the tax benefits of
3 debt financing.

4 If, however, the applicants in fact failed
5 to make that necessary tax benefit adjustment to the
6 estimated cost of debt, their response to
7 Mr. Vedvik's data request would be incorrect.
8 Consequently, the 8.41 percent discount rate provided
9 to Mr. Vedvik by the applicants would need to be
10 recalculated.

11 BY MR. JELINSKI:

12 Q Is Mr. Pfeifenberger correct when he states that the
13 FERC-approved rate of return incentives need to be
14 subtracted from the allowed ROE to isolate the
15 portion of the return that is intended to compensate
16 equity investors for their opportunity cost of
17 capital, i.e., the cost of equity; the netting of the
18 ROE incentives is necessary because the incentives
19 are an adder above the transmission investment's
20 actual cost of equity?

21 A I respectfully disagree with Mr. Pfeifenberger.
22 Mr. Pfeifenberger is stating that the project can
23 attract the equity funds required at the FERC
24 authorized base ROE, currently 10.32 percent, without
25 requiring FERC's ROE incentive adders. That argument

1 implies that the incentives offered by FERC are
2 unnecessary to help offset the particular risk
3 profile of the project in obtaining investment equity
4 funding. A brief review of FERC's transmission
5 investment incentives program would be helpful in
6 evaluating this implication.

7 Transmission incentives were enacted by
8 Congress in the Energy Policy Act of 2005, also known
9 as 2005 EPA, on August 8, 2005, which added a new
10 Section 219 to the Federal Power Act. Section 219
11 required the Federal Energy Regulatory Commission,
12 FERC, F-E-R-C, to establish by rule incentive based,
13 including performance based, rate treatments for the
14 transmission of electric energy in interstate
15 commerce by public utilities by enhancing reliability
16 and reducing congested related costs.

17 2005 EPA mandated, among other things,
18 that FERC should -- FERC's rule shall, A, provide a
19 return on capital that attracts new investment in
20 transmission facilities; and, B, maintain rates,
21 charges, terms and conditions that are just and
22 reasonable and not unduly discriminatory or
23 preferential. FERC Order No. 679 established, among
24 other matters, the following transmission incentives
25 and guidance in fulfilling its obligation under

1 Section 209. ROE adders. Enhancing the authorized
2 ROE was deemed to be the most effective adder to
3 attract capital investment into transmission in the
4 amounts required while absorbing the inherent risks,
5 project delays, and siting difficulties on the best
6 terms possible.

7 Other incentives. A number of financial
8 incentives were initially adopted to mitigate a
9 proposed transmission project's business risk
10 profile.

11 Guidance on granting of incentives. There
12 must be a nexus between the incentive requested and
13 the risk or need of the project, which must exceed
14 normal risks. And that's known as the nexus test.
15 All incentives granted to any single project must be
16 evaluated as a whole to avoid overcompensation.

17 FERC No. 679-A and 679-B address some
18 subsequent objections raised by customer interests,
19 arguing that Order No. 679 was too permissive in
20 offering rate incentives, and clarified procedures.

21 Following a notice of inquiry, and that
22 was in 2011, FERC issued a policy statement that
23 provided additional guidance and clarity on certain
24 aspects of FERC's transmission incentive policy and
25 procedures, among them, A, each element of the

1 incentive package must be tailored to meet the
2 demonstrable risks and challenges of the project; B,
3 the interrelationship of all elements of the project
4 must be evaluated; C, reductions of risk must be
5 offset against any ROE adder requested; D, to
6 avoid -- encourage avoidance of double-counting risks
7 with the DCF analysis in determining the base ROE; E,
8 examine the use of risk reducing incentives before
9 considering ROE adders; and F, provide general
10 guidance regarding the application for an incentive
11 ROE based on a project's risk and challenges.

12 To reconfirm, Mr. Pfeifenberger's argument
13 presumes that the rate of return on equity, ROE, that
14 would be required to incent investors to invest in
15 this transmission project, that is, the ROE required
16 to fairly compensate for them their opportunity cost
17 incurred in not investing in an alternative
18 opportunity of equal risk, is the base authorized
19 rate of return on equity set by FERC, without need of
20 FERC granted ROE adders.

21 If Mr. Pfeifenberger reasons that the FERC
22 ROE adders should be netted out because those ROE
23 adders are not needed, i.e., that the applicants can
24 obtain the required equity funds without the need for
25 FERC's ROE adders to offset exceptional risks or

1 challenges, that would imply that either, A, the
2 applicants have not accurately described the
3 exceptional risks and challenges associated with the
4 transmission project for which they requested
5 investment incentives from FERC; or, B, FERC has
6 deviated from the applicable statutes and rules cited
7 above in considering and improving investment
8 incentives for this project.

9 Q Does this conclude your testimony?

10 A Yes, it does.

11 MR. JELINSKI: Mr. Bacalao is available
12 for cross-examination.

13 EXAMINER NEWMARK: Okay. Questions?

14 MR. LOEHR: Yes, Your Honor.

15 CROSS-EXAMINATION

16 BY MS. LOEHR:

17 Q Mr. Bacalao, were you reading from something just
18 now?

19 A Yes, I was.

20 MS. LOEHR: May I approach?

21 EXAMINER NEWMARK: Yes, sure. Let's go
22 off the record.

23 (Discussion off the record.)

24 BY MR. LOEHR:

25 Q I want to go back to the start of your

1 sur-sur-surrebuttal. You talked about the 8.41
2 percent discount rate that Commission staff
3 identified.

4 A Correct.

5 Q And you stated that that was not a Commission staff
6 calculated number.

7 A Correct.

8 Q And that it was something that was provided by the
9 applicants in response to a data request?

10 A Correct.

11 Q And was it provided by the applicants in response to
12 a data request asking for an appropriate discount
13 rate for this proceeding?

14 A I believe so. I would have to check the exact
15 wording in the data request, which is in the record.

16 Q And I believe you referenced Mr. Vedvik's testimony
17 with respect to the reference to the data request?

18 A That is correct. I believe the data request is an
19 exhibit in that direct testimony.

20 Q I don't know about that, but I do see a surrebuttal
21 PSC Vedvik 3, line 10.

22 A I may have been wrong. I'm not quite sure which of
23 Mr. Vedvik's testimony it was attached to. But wait
24 one second. Let me just see something.

25 In my notes it shows up as direct

1 Commission Vedvik page 10, PSC reference number
2 365153. In my first testimony, which is a
3 sur-surrebuttal, I have the same reference to direct
4 PSC Vedvik pages 6 to 10 and Exhibit PSC Vedvik 2,
5 page 2. I don't have the testimony in front of me,
6 I'm afraid, so perhaps we can call it up.

7 EXAMINER NEWMARK: Off the record.

8 (Discussion off the record.)

9 EXAMINER NEWMARK: All right. Let's get
10 back on the record.

11 BY MR. LOEHR:

12 Q Okay. Off the record, I think we determined that the
13 data request that you were referring to when you were
14 referring to Mr. Vedvik's testimony was data request
15 1.169?

16 A Yes.

17 Q Okay. And that's the source of staff's use of the
18 8.41 percent?

19 A Correct.

20 Q And we've just brought up on the screen PSC reference
21 number 347526, PDF page 8, and it has the request and
22 response to data request 1.169?

23 EXAMINER NEWMARK: That's what's on the
24 screen.

25 A Okay.

1 BY MR. LOEHR:

2 Q And did you read that for a moment?

3 A Yes.

4 Q Is there anything in that request that refers to a
5 discount rate?

6 A No. That is -- the present value -- present value
7 revenue requirements. To get that calculation, you
8 have to use a discount rate, so it's in the
9 spreadsheet that's attached. So the answer to your
10 question is there is no reference to discount rate in
11 the text, but there is by -- necessarily a discount
12 rate that has to be used to calculate a present
13 value.

14 Q And the request is referring just to ATC; is that
15 correct?

16 A That is correct. Yes.

17 Q So it's not taking into account the other two
18 applicants?

19 A Not that reference. But if you go to the text that I
20 cited from Mr. Vedvik's testimony, it refers to all
21 three applicants. And when you go to the
22 spreadsheet, it shows all three applicants. So it
23 may have been a mischaracterization perhaps, beyond
24 my knowledge as to exactly how that was misstated --
25 how that was stated that way. But it says what it

1 says.

2 Q What I'm trying to understand is Commission staff
3 indicated -- you indicated that a weighted average
4 cost of capital is one methodology of determining a
5 discount rate?

6 A If you are using -- yes, if you're using -- it's one
7 way to do it. It's the correct way to do it for this
8 particular calculation.

9 Q And you did not ask the applicants to determine their
10 weighted average cost of capital that they would use
11 for a discount rate in this proceeding?

12 A Please remember I'm relying on Mr. Vedvik's data
13 request and the response to his data request. So I'm
14 relying on his testimony as to what was asked and
15 what was offered. And I looked at both provided.

16 Q So the answer is no?

17 A The answer is no to the question did I ask it?
18 Sorry, what was the question?

19 (Question read by the reporter.)

20 A I did not, no.

21 Q And your only knowledge of the source of the 8.41
22 percent is Mr. Vedvik's testimony on this topic?

23 A That is correct, which would in turn rely on these
24 data requests -- on the data request and response.

25 Q And it's this data request and response that we're

1 talking about, 1.169?

2 A I believe so, yes.

3 Q And that's the only one?

4 A As far as I know, yes. I did find the reference in
5 his direct testimony as to what the numbers were and
6 how he obtained them, if you want me to give you that
7 reference, which I relied on.

8 Q And that is direct PSC Vedvik 10?

9 A This would be direct PSC Vedvik 9 and 10. And I
10 would say on page 8, lines 19 and 20, and on page 10,
11 lines 10 through 18.

12 Q So you did not conduct any independent calculation
13 using your classical method?

14 A No. In -- as you gather from my first testimony, it
15 describes the scope of what I was asked to do. And
16 it was basically to look at the direct and the
17 rebuttal testimonies provided on this topic and look
18 at the calculation methodology. I was not asked to
19 independently verify all the calculations from
20 scratch.

21 Q So do you have any reason to dispute
22 Mr. Pfeifenberger's calculation?

23 A It seems to be based -- one second, let me just pull
24 his up. It seems to me that his calculations, which
25 appear on his sur-surrebuttal; and it's pages 2 and

1 3, the table is on page 3. It appears to me that he
2 was using the same information except reaching a
3 different number by -- and then there -- I would
4 disagree with some of the methodologies there; but I
5 alluded to those in my first testimony which is
6 sur-surrebuttal. There are several things that I
7 have difficulty with in accepting the methodology
8 there. But leaving that aside, it looks like he is
9 using the same information that was provided to
10 Mr. Vedvik.

11 Q And you indicated in your oral sur-surrebuttal
12 testimony that it is appropriate to consider the
13 aftertax weighted average cost of capital?

14 A That is correct. Assuming always that the borrower
15 qualifies and the borrower has a capacity to use it.

16 Q And you have reason to dispute Mr. Pfeifenberger's
17 calculation of the aftertax portion of the weighted
18 average cost of capital?

19 A Assuming that the other numbers are correct, it
20 appears that he's right. I have no way of verifying
21 that the blended tax rate for ATC, for ITC and for
22 Dairyland are what he says they are. I would have to
23 go and verify that. But assuming for a second that
24 those numbers are correct, the methodology, which are
25 the last three lines of his Table 1, would be

1 correct, yes.

2 Q And assuming for a second that the 8.41 percent
3 calculation did not include the aftertax calculation,
4 that would make the 8.41 percent incorrect; is that
5 true?

6 A That is correct. I assumed based on my review of the
7 spreadsheet that it had been factored in. In other
8 words, the 8.41 was an aftertax WACC. But if it
9 wasn't, then it would be incorrect.

10 MR. LOEHR: That's all I have.

11 EXAMINER NEWMARK: All right. Other
12 cross?

13 MR. CHASCO: I do have a couple questions.

14 CROSS-EXAMINATION

15 BY MR. CHASCO:

16 Q So with respect to your testimony that -- and correct
17 me if I mischaracterize it, that the ROE adders,
18 incentive adders that the applicants receive should
19 be not removed from your version of the discount
20 rate. With me so far?

21 EXAMINER NEWMARK: Off the record.

22 (Discussion off the record.)

23 Q Let me rephrase. So as I understand your testimony,
24 you would not remove the ROE incentive adders from
25 the discount rate because they're required in your

1 view to attract capital. Is that a fair
2 characterization of your testimony?

3 A It would be correct if you assume that the ROE adder
4 that was requested and granted is needed to attract
5 the capital. If, on the other hand, the applicants
6 assume that it's not needed to attract the capital,
7 then it shouldn't be added. In other words, the
8 discount rate, the ROE that should be used in the
9 discount rate is the real marginal cost of equity,
10 what it would cost to raise that equity when you need
11 it. And if that ROE adder is reflective of what the
12 real cost of equity is, then it should be included.
13 If it is not accurately reflecting it, then it should
14 not be included.

15 Q If an incentive -- I think you already said this.
16 But if I understood you correctly, if an incentive is
17 not for the purpose of attracting capital, you would
18 agree then that it should be removed from your
19 calculation of the discount rate?

20 A No. I don't think that would be a correct summary of
21 what I said. If you would allow me to repeat briefly
22 what I said. The rules as they were stated or --
23 stated by FERC were that you begin by bringing an
24 application in where you have reduced the risk as
25 much as you can. If there are still risks that

1 cannot be reduced and it's possible for FERC to offer
2 you risk mitigating incentives, then you do that. If
3 you still have risks that you cannot mitigate, then
4 you look at ROE adders as a way of compensating it.

5 So if you remember that the cost of equity
6 reflects the risk of the project and the investor is
7 aware of all of these various risks, then if the job
8 has been well done, that is to say the calculations
9 are done, then, yes, you would actually include the
10 ROE adders as well as the other benefits.

11 Q All right. Let me come at it from a different angle.
12 Are you aware that one of the adders that at least
13 Dairyland receives is for the purpose of encouraging
14 RTO membership?

15 A Yes, I'm aware of that.

16 Q And that has no impact on your analysis of whether
17 that should be included in the discount rate?

18 A To answer that question, I would have to be looking
19 at this from the perspective of the person raising
20 funds for Dairyland. And the short answer would be
21 if you were -- if Dairyland's investors, which I
22 realize are cooperatives, required membership and
23 absent that would require a penalty of 50 basis
24 points, then yes, you would have to add it in.

25 Q Even if that has nothing to do with this particular

1 project?

2 A Well, no. That's part of the project risk.

3 Q MISO membership or not belonging to MISO is related
4 to this particular project?

5 A That is correct.

6 Q For the purpose of calculating the discount rate?

7 A It would be part of the risk profile. If you were
8 not a member of MISO, that would be a different risk
9 profile than if you were.

10 Q Would it change your opinion at all if an entity such
11 as Dairyland decided to participate in Badger Coulee,
12 for example, without receiving the MISO membership
13 equity adder, ROE adder? If my question makes sense.

14 A Remind me, what's the timing difference between
15 Badger Coulee and this one? A year, two years?

16 Q A couple years.

17 A Couple years. The reason I ask that question is
18 because the markets are ever revolving, obviously.
19 With Dairyland, the problem is that you don't have
20 publicly traded securities; so it's a lot more
21 difficult to actually measure that accurately.

22 Q Maybe I'll ask a different question. Do you think
23 the discount rate should be different for the
24 different applicants? Is a dollar value to
25 Dairyland's members today different than a dollar to

1 ITC's customers?

2 A The short answer is that the required rate of
3 return -- the required rate of return for the same
4 project should be about the same for all three
5 participants. Well, what becomes different is the
6 cost of actual funding this. And that might make it
7 a little more attractive for one of the investors
8 than it would be for another of the investors. But
9 the actual required return should be about the same
10 for all three if all three are taking the same type
11 of risk in undertaking the project.

12 MR. CHASCO: Okay. I think that's all I
13 have. Thank you.

14 EXAMINER NEWMARK: Okay. Cross?
15 Ms. Overland.

16 CROSS-EXAMINATION

17 BY MS. OVERLAND:

18 Q Good afternoon. Carol Overland on behalf of Jewell
19 Jinkins intervenors.

20 A Good afternoon.

21 Q In your sur-surr, the verbal testimony before you
22 started the cross, you referred to the incentive
23 adders in the FERC policy statement. And would you
24 agree that the policy statement you were referring
25 to, that would be MISO Exhibit 6?

1 A Let me just ask you. You're talking about my
2 sur-sur-surrebuttal that I read today?

3 Q It would be your verbal testimony.

4 A And then the question again is -- ?

5 Q When you're referring to a FERC policy statement, and
6 I believe that's MISO Exhibit 6 and I'd like that
7 verified.

8 EXAMINER NEWMARK: Let's go off the
9 record.

10 (Discussion off the record.)

11 EXAMINER NEWMARK: On the record.

12 BY MS. OVERLAND:

13 Q Okay. What I'm looking for is verification if this
14 is -- if that on the screen, which is the Wellinghoff
15 Exhibit 6, if that would be the same FERC policy
16 statement you were referring to earlier, regarding
17 Order 679?

18 A Yes, it is. It's FERC docket number RN1126000
19 May 11, 2011, is what my notes indicate. I think
20 that's right. That's the same one.

21 Q Okay. Thank you. And then there were -- the FERC
22 orders introduced by Jewell Jenkins intervenors,
23 Exhibits 6 and 7, which were orders granting
24 abandoned plant incentive, and I want to clarify,
25 would those be then the type of incentive adders

1 you're referring to?

2 A Those would fall into the category of the first one
3 that I said about risk mitigation. And there are
4 several types that are available; and depending on
5 the application and the specific project, you would
6 have, for example, full recovery or partial recovery
7 of an abandonment or if you have CWIP, 100 percent
8 CWIP as opposed to AFUDC.

9 Q And CWIP means -- ?

10 A That's construction -- sorry, let me think a second.
11 Cost --

12 Q Would it be construction work in progress?

13 A Thank you. Construction work in progress. It's been
14 several years since I've had to use that term. And
15 the other one is allowance for funds under
16 construction.

17 So there are different forms of incentives
18 for risk reduction that are intended to protect
19 projects that have exceptional risk or perhaps a
20 sponsor that has a bigger challenge because they've
21 just been created and don't have a credit record,
22 things like that. So on a case-by-case basis, by
23 design, by the rules, FERC would look at these things
24 and so would the applicants and they would work their
25 way through what risk mitigations might be

1 appropriate. And then according to the rules, you
2 then look at ROE adders, if that helps you understand
3 it.

4 Q Okay. So then what that means, does that mean then
5 that according to FERC, this project is sufficiently
6 risky then to acquire this adder?

7 A You would have to ask that question of the
8 applicants. I am not aware of the answer to that
9 question.

10 Q Okay. Looking at your surrebuttal, which would have
11 been your first filing, on page 2, you state that the
12 purpose of your testimony is to assist the Commission
13 in evaluating the accuracy and relevance of the
14 respective present value calculations. So regarding
15 accuracy, could you look at direct applicants
16 Degenhardt 6.

17 A I...

18 Q Degenhardt 6, that would be ERF 358849. It'll be up
19 shortly.

20 EXAMINER NEWMARK: Off the record.

21 (Discussion off the record.)

22 BY MS. OVERLAND:

23 Q If you could focus on, for example, line 13 where the
24 13.42 percent which represents the share of
25 Schedule 26A charges, when you were talking about

1 accuracy and the purpose of your testimony, did you
2 verify, for example, the input of 13.42 percent from
3 Schedule 26A?

4 A No. That was outside the scope of what I was asked
5 to do.

6 Q Okay. So, and that would then apply to the 10.6
7 percent following on line 20, none of these, you did
8 not verify any of these?

9 A No. I had to concentrate on whether one discount
10 rate or a different discount rate was the right one
11 to use and why.

12 Q Okay. Clear. Now, in your testimony, the written
13 testimony, page 4, you discuss the distinction
14 between an approach from the customers' perspective
15 and an approach from the perspective of its owners.
16 Is there an approach in the record from the ratepayer
17 perspective?

18 A As I understood the applicants' argument, they were
19 trying to calculate the present value of the revenue
20 requirement, which is what's the impact on the
21 customer expressed in present value terms. So if you
22 look at the debt benefits and you calculate it over
23 the years and you bring it back, what is that number?
24 And the argument here is which is a correct discount
25 rate to use. So the answer to your question is I

1 believe the applicants did look at it from the
2 customers' perspective from that respect.

3 Q But are you clear that -- thus -- as I understand it,
4 thus far in this proceeding the customer is distinct
5 from the ratepayer, that the customers are like the
6 transmission service customers? And what I'm
7 wondering is did the ratepayers come into this
8 calculation anywhere?

9 A I don't know how to answer that question because I
10 did not examine the testimony from the perspective of
11 differentiating between the first line of buyers of
12 the transmission service and the ultimate buyers of
13 the transmission service. So, I'm sorry, I can't
14 answer your question from that point of view. If I
15 understood your question. Did I?

16 Q I think so.

17 A Okay. Then the answer is, no, I didn't look into it.

18 Q I believe so. Now, in this written surrebuttal, you
19 list several points about material shortcomings. How
20 material is material when we're looking at a record
21 going to the Commission?

22 A Could you point me to which of the references you're
23 talking to in that testimony, what page and which
24 line.

25 Q Sure. Starting on page 5 and beginning on 18. This

1 would be your written testimony. And you're saying
2 there are two material shortcomings in the
3 calculations. And I'm wondering, how material is
4 that in your view?

5 A Well, it would require -- material from a conceptual
6 perspective, I haven't calculated the number so I
7 can't tell you how material it is in dollars and
8 cents. But they are fundamentally serious. And
9 that's one of the reasons why in responding to an
10 earlier question where I was asked to look at
11 Mr. Pfeifenberger's calculations I said I have
12 difficulties with those calculations. So, for
13 instance --

14 EXAMINER NEWMARK: Just off the record.
15 (Discussion off the record.)

16 A In answer to your question, I would say that since I
17 was at a very specific scope of what I was going to
18 do, if you look at the recommendations if any that I
19 would make at the tail end, which starts on page 8,
20 you will see that one of the options available should
21 the Commission decide is to go back and recalculate;
22 and if you're going to recalculate, these are two of
23 the big issues that I'd say would have to be
24 revisited.

25 BY MS. OVERLAND:

1 Q Okay. And your comments were made -- just a minute.
2 You note on page 6 that the accuracy may suffer if
3 the calculations are not updated with the passage of
4 time. And you were using information that had been
5 developed a while ago.

6 Do you feel that it needs updating since
7 the filing of that information on which you were
8 relying?

9 A Yes, but the order of magnitude may not be material.
10 What I mean by that basically is markets are
11 continuously changing, sometimes more radically than
12 others. Sometimes they move and you can come back
13 and by sheer coincidence or serendipity you're at the
14 right rate for the wrong reason. You're using a
15 stale number that just happens to be the right one.
16 You would have to basically go through and
17 recalculate it and say let's -- if you decide to do
18 it, which the Commission may or may not choose to do,
19 obviously; but if you're going to do it again, you
20 would basically have to say let's do all the
21 calculations as of a particular date, and then you go
22 and you check the markets and you ask the right
23 questions and do your best to get the right answers
24 as to what the marginal cost of equity, the marginal
25 cost of debt and any preferred stock, et cetera, to

1 calculate the marginal cost of equity or the marginal
2 weighted average cost of capital applicable to this
3 project at this point in time. That's really what
4 it's getting to.

5 Q So to take a snapshot in time perhaps?

6 A You have to take a snapshot in, but you have to be
7 pointing the camera in the right direction. You
8 don't look backwards, you look forwards, for
9 instance.

10 Q And then you also on page 8, as you're winding up
11 with your suggestions, that the Commission consider
12 clarifying the rules governing this type of
13 application with respect to the economic evaluation
14 of future projects.

15 A I'm sorry, which line are you on?

16 Q Okay. Page 8, lines -- the end of line 16 through
17 18.

18 A Okay.

19 Q And first, when you discuss, you know, economic
20 evaluation of future projects, is this in essence
21 looking at the MVP projects specifically or do you
22 mean generally all projects evaluated by the
23 Commission?

24 A No, I meant in general construction projects. I
25 mean, it struck me that the questions -- the

1 calculations being used were being approached from
2 different angles and that it would be useful to
3 clarify which the Commission would prefer we used.

4 MS. OVERLAND: And I have no further
5 questions. Thank you.

6 EXAMINER NEWMARK: All right. So who
7 else? Let's go off the record.

8 (Discussion off the record.)

9 EXAMINER NEWMARK: Let's get on the
10 record.

11 CROSS-EXAMINATION

12 BY MR. KURTH:

13 Q Hi, Mr. Bacalao. My name is Joel Kurth. I'm a
14 landowner intervenor.

15 A Good afternoon.

16 Q Good afternoon. Do you believe generally that
17 load-serving entities pass on their costs plus an
18 allowed return on investment to ratepayers?

19 A I'm sorry. I had difficulty hearing you. I
20 apologize. Could you just repeat it again.

21 Q Do you believe that generally load-serving entities
22 pass on their costs plus an allowed return on
23 investment to ratepayers?

24 A That is -- what you are describing is the classical
25 rate recovery mechanism. Yes.

1 Q In your testimony, when you discuss the project from
2 the owner's perspective, are you referring to the
3 corporate equity shareholders?

4 A I'm -- yes, I'm actually including the debt holders
5 as well because you have to consider creditors. And
6 in the specific case of Dairyland Power, of course we
7 have to be cognizant of the fact that they are a
8 cooperative. Doesn't change the fact that they have
9 owners by a different name.

10 Q So from the perspective of these owners of a
11 hypothetical transmission project, if the return on
12 equity for the project is greater than the weighted
13 average cost of capital for the project and the
14 company and the project is of the same risk as the
15 average corporate project for these companies, the
16 economic value added for the project is positive for
17 the corporate equity shareholders, correct -- for the
18 owners if the ROE is greater than the weighted cost
19 of capital?

20 A You said something at the outset which I think is
21 incorrect, but accidentally. Could you start your
22 question again and I will stop you and make sure that
23 you said what you meant.

24 Q Sure. From the perspective of the owners of a
25 hypothetical --

1 A Right.

2 Q -- transmission company, if the return on equity for
3 the project is greater than the weighted average cost
4 of capital for the project --

5 A Okay. Stop right there. When you talk about the
6 weighted average cost of capital, you're including
7 all the sources of capital including preferred and
8 debt, long-term debt, short-term debt, and even off
9 balance sheet financing. That's debt that's off the
10 balance sheet.

11 The cost of equity is the highest cost --
12 typically the highest cost component of that blend.
13 So the first part of your question, you know, you'll
14 always have a cost of equity that's going to be
15 higher than the weighted cost of capital. At best it
16 will be the same if you fund it completely with
17 equity. So I just wanted to make sure that we were
18 on the same page, Mr. Kurth.

19 Q Let me try to clarify. When I say return on equity,
20 I mean the actual net income returns.

21 A Oh, the earned return on equity as --

22 Q Correct.

23 A -- opposed to the cost of equity.

24 Q Correct.

25 A I'm with you now.

1 Q Should I repeat the question?

2 A Start again, yeah.

3 Q Okay. I'll add in the earned portion. So from the
4 perspective of the owners of a hypothetical
5 transmission company, if the earned return on equity
6 for the project is greater than the weighted average
7 cost of capital for the project and the company and
8 the project is of the same risk as the average
9 corporate project, economic value added for the
10 project is positive for the owners, correct?

11 A Yes. The only thing I'm concerned about here is,
12 again, just to make sure that we're talking apples
13 and apples, weighted average cost of capital being
14 the marginal cost to fund the project, earned return
15 on equity being what the owners end up earning. And
16 the short answer would be yes, you would have
17 economic value created.

18 Q Thank you. Would it then follow if the weighted
19 average cost of capital was greater than the earned
20 return on equity for the project, the economic value
21 added for the owners would be negative, correct?

22 A You would expect so, yes.

23 Q Is it fair then to call the weighted average cost of
24 capital the hurdle rate for owners, to use a term of
25 art?

1 A The approval rate?

2 Q The hurdle rate.

3 A The hurdle rate. Oh, I'm sorry. Yes. If properly
4 calculated. If you'll give me a second. The whole
5 concept of a hurdle is what's the minimum return that
6 you should be able to earn on a project. If you can
7 earn more on that, you will have a positive net
8 present value, i.e., you're making money, it's worth
9 it to go ahead. If you hit that hurdle, in other
10 words, you get to zero net present value, you may as
11 well walk away. Find something that gives you a
12 better -- equivalent risk but a better return. And
13 if you have a negative net present value, and that is
14 where you're earning or below the weighted of the
15 hurdle rate, then don't go ahead unless you have
16 non-economic reasons to do it. You have a regulatory
17 gun put to your head saying you've got to do it or
18 there's some other reason that makes it compelling
19 that balances out the negative financial character of
20 the investment.

21 Q Thank you. Would you agree that the ratepayers also
22 have a hurdle rate since they will through
23 transmission charges passed through load-serving
24 entities to -- plus an allowed return on equity to
25 their bills, since they do in the end through this

1 mechanism pay for the project over its estimated
2 life?

3 MS. LOEHR: Your Honor, I'm going to
4 object to this line of questioning. Mr. Bacalao
5 already testified that his surrebuttal testimony is
6 very narrow in scope in analyzing the two discount
7 rates in this proceeding and I think we've exceeded
8 that here.

9 MR. JELINSKI: I join in that objection.

10 EXAMINER NEWMARK: Off the record.

11 (Discussion off the record.)

12 EXAMINER NEWMARK: Let's get back on the
13 record. I'll allow the question.

14 A The least confusing way to answer the question, we
15 tend to think of customers, as I think has been
16 pointed out in earlier testimony, in terms of cost of
17 service or customer charges. But there is an implied
18 hurdle rate. And you could probably make it clearest
19 by saying suppose you have a choice between accepting
20 service from your local load-serving entity or doing
21 something, making an investment that would provide
22 you the same service on the same conditions with the
23 same risks, but which you own. And what you would
24 then have to figure out is as long as my investment
25 in my alternative source of energy gives me a better

1 return, is better, if you wish, than continuing the
2 serving, then you have that implied hurdle rate. But
3 it's confusing unless you think of it that way. Does
4 that help you?

5 Q I think so. I'm just going to ask this last question
6 in this line. From the perspective of the
7 ratepayers, much like the transmission company
8 owners, economic value added for the project, in the
9 transmission company project like Cardinal-Hickory
10 Creek, the economic value added for the project would
11 be positive if the return on investment exceeds the
12 hurdle rate of the ratepayers, that implied hurdle
13 rate that you just mentioned in the answer to the
14 last question?

15 A Yes. In plain English, if you could do better by
16 accepting what this proposed transmission line is
17 going to do and cost and benefits it's going to give
18 you, if you can do better with that than any other
19 alternative, you're better off, in plain English.

20 Q Thank you. So my next series of questions intend to
21 get a little bit more understanding of the hurdle
22 rate from the ratepayers' standpoint.

23 MS. LOEHR: Your Honor, this is what we
24 just talked about. I thought that was all included
25 in that line of questioning. That is beyond the

1 scope of Mr. Bacalao's testimony.

2 EXAMINER NEWMARK: Off the record.

3 (Discussion off the record.)

4 (Recess taken from 3:40 to 3:54 p.m.)

5 EXAMINER NEWMARK: Let's get started.

6 Back on the record. All right. So currently we
7 have Mr. Kurth asking some cross-examination
8 questions of the witness, and there's an objection
9 that it's outside the scope of the witness's
10 testimony. So I'm just going to have staff respond
11 to that.

12 MR. JELINSKI: Yes. I think that it's
13 been clarified in this case that the economic
14 analysis and the -- therefore, the effect of the
15 discount rate that's being discussed in
16 Mr. Bacalao's testimony is related to transmission
17 customers, not ratepayers. And so I think that any
18 questions related as we've kind of -- I think it's
19 been clear throughout the hearing that we have not
20 inquired into any analysis related to the impact on
21 ratepayers specifically. So I think any questions
22 that would get at those impacts would be outside the
23 scope of Mr. Bacalao's testimony.

24 EXAMINER NEWMARK: All right. So,
25 Mr. Kurth, do you have any other questions?

1 MR. KURTH: I do.

2 EXAMINER NEWMARK: Okay. Go ahead.

3 MR. KURTH: I think I do. I'm sorry.

4 Let's go off the record.

5 (Discussion off the record.)

6 EXAMINER NEWMARK: Let's get back on the
7 record. Mr. Kurth, do you have any additional
8 questions?

9 MR. KURTH: Let's stay off the record.

10 (Discussion off the record.)

11 EXAMINER NEWMARK: On the record. Go
12 ahead.

13 BY MR. KURTH:

14 Q Ratepayers do participate in the risk of this
15 project, correct?

16 A Indirectly eventually they do, yes.

17 Q I only have a few more questions, and these are
18 regarding the FERC ROE incentive adder. This adder
19 like other costs is in the end passed through to
20 ratepayers in their electric bills, correct?

21 A That is correct.

22 Q Since ratepayers will in the end pay for this adder
23 through charges on their electric bills, should --
24 I'm not saying that you did or have done -- but
25 should the adder be considered from the ratepayers'

1 perspective in the analysis of economic value for
2 this project?

3 MR. LOEHR: Objection, it's beyond the
4 scope of his testimony. He did not consider the
5 impact to ratepayers or customers.

6 EXAMINER NEWMARK: I'm just going to let
7 him answer. I think that was -- that's what he
8 intended to imply by should, I suppose.

9 A I will try and honor your point in my answer. My
10 response to that question would be that if you look
11 at this project and you calculate, you know, what's
12 the present -- net present value, if you want to look
13 at it from an investors' perspective, or the net
14 benefit eventually to customers, you do have to
15 factor in what the various costs are.

16 So ultimately you are indirectly doing
17 what you're talking about. But we're honoring the
18 objection. Let's not go all the way to the ultimate
19 ratepayers. Let's simply look at it from the
20 perspective of saying how do we know how to judge the
21 benefits of this thing? How do we -- what is the
22 correct way to evaluate this in broad terms? So that
23 was what I attempted to do.

24 BY MR. KURTH:

25 Q Thank you.

1 A It's up to you to judge whether I did it well or not.

2 Q To clarify, the applicants -- this is regarding the
3 adder again. The applicants still receive the
4 adder -- let's just say that they're approved for the
5 adder, the project is approved, they go to FERC, they
6 get approved for the adder. They receive this adder
7 regardless of the discount rate used in the economic
8 analysis of the project, correct? One has nothing to
9 do with the other really, right?

10 MR. JELINSKI: I'll just object. I think
11 that's outside the scope of what he's testifying to.
12 Again, he's not testifying to what is eventually
13 going to be recovered at FERC. He's testifying as
14 to what the appropriate discount rate is and how
15 he's using that methodology to calculate it.

16 MR. KURTH: May I respond to that?

17 EXAMINER NEWMARK: Yeah. Go ahead.

18 MR. KURTH: There is a probability that
19 the adder does get added. Okay? And so you can do
20 a probability weighted analysis and correct the
21 discount for that probability that the adder is
22 added.

23 EXAMINER NEWMARK: Okay.

24 MR. JELINSKI: Well, if you wanted to
25 offer that testimony, you could have, sir. My only

1 point in objecting is that that's not the testimony
2 that Mr. Bacalao has offered here.

3 EXAMINER NEWMARK: Okay. Well, we did
4 have -- we had a discussion of the FERC process and
5 the risks and adder -- the necessity or the ability
6 to put in adders. So I think I'll have him answer
7 the best he can with -- as far as Mr. Kurth's
8 question. So you can answer that. So do you want
9 to read back the question or do you want to restate
10 it?

11 BY MR. KURTH:

12 Q Applicants still receive the adder regardless of
13 discount rate used in the economic analysis?

14 MR. JELINSKI: See, again, that's my
15 objection. He can't -- he's asking for him to
16 predict whether they'll receive the adder.

17 A Could I be helpful by basically recycling what I said
18 earlier in a different way?

19 EXAMINER NEWMARK: Okay.

20 A That might be helpful.

21 MR. JELINSKI: No, there's question before
22 you.

23 EXAMINER NEWMARK: Let's just leave it at
24 that point.

25 MR. KURTH: I'll move on.

1 MS. OVERLAND: There's some real confusion
2 here because Jewell Exhibits 6 and 7 are the FERC
3 order for the adder.

4 EXAMINER NEWMARK: Right, but --

5 MR. CHASCO: That's not accurate. Those
6 are different incentives.

7 EXAMINER NEWMARK: Right. It's
8 something -- I think we're talking about something
9 different. So if you have a different question, we
10 can move on from this one.

11 MR. KURTH: No further questions. Thank
12 you, Mr. Bacalao.

13 THE WITNESS: You're welcome.

14 EXAMINER NEWMARK: All right. Okay.

15 MR. JELINSKI: Just one question for
16 redirect.

17 EXAMINER NEWMARK: Okay. Go ahead.

18 REDIRECT EXAMINATION

19 BY MR. JELINSKI:

20 Q Mr. Bacalao, I think we had some discussion about
21 your reliance on data request response 1.169; and I
22 think you expressed before that you relied on the
23 spreadsheet that was produced as part of that data
24 request response. Could you explain again what your
25 understanding is of what was contained in that

1 spreadsheet?

2 A Certainly. And I apologize if there was any
3 typographical area or misleading. But what I did was
4 go to the source of the number, 8.41, 8.41 percent,
5 and evaluate where it came from, how it was
6 calculated, not to verify that the calculations were
7 correct, but to understand how it was derived. This
8 information came as a result of the data request that
9 was made by Alexander Vedvik and it was incorporated
10 into his testimony. And that is the spreadsheet that
11 you're referring to. If you look at that
12 spreadsheet, it has a number of paths. The critical
13 one where the 8.41 percent appears indicates that tax
14 was calculated, tax benefits were calculated, that it
15 was for all three of the investors; and that is the
16 basis of saying, well, in that case I'm evaluating
17 this.

18 MR. JELINSKI: Nothing further. Thank
19 you, Mr. Bacalao.

20 EXAMINER NEWMARK: All right. Thanks.
21 You're excused. Thank you.

22 (Witness excused.)

23 MS. OVERLAND: Your Honor, I'm not
24 intending to be rude. But I have to go to
25 Minnesota. For the record?