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PUBLIC SERVICE BOARD

DOCKET NUMBER EEU-2013-01

IN RE: DEMAND RESOURCES PLAN
PROCEEDING DEBRIEFING WORKSHOP

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1:00 p.m.

112 State Street
Montpelier, Vermont

Workshop held before the Vermont Public
Service Board, at the Fourth Floor Conference Room,
People's United Bank Building, 112 State Street,
Montpelier, Vermont, on December 9, 2015, beginning at
1:00 p.m.

P R E S E N T

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Jim Massie, VEIC

Mick Hilbert, VEIC

Dave Westman, VEIC

Robert Stephenson, VEIC

Brian Cotterill, DPS

Kelly Launder, DPS

Jeanne Elias, DPS

Chris Burns, BED

Tom Lyle, BED

Karen Horne, Vermont Gas Systems, Inc.

Jay Pilliod, VEIC

* * * * *

1 MR. KNAUER: All right. Good afternoon.
2 This is a workshop in EEU proceeding EEU-2013-01, which
3 is the Demand Resources Plan Proceeding. My name is
4 Tom Knauer. I'm a Utilities Analyst with the Board.
5 With me is Lars Bang-Jensen, Staff Attorney. The
6 purpose of today's workshop is to debrief the DRP
7 proceeding. We sent out an agenda a few days ago -- I
8 hope everyone received that -- and we got a joint
9 filing from the Department of Public Service, BED, and
10 VEIC on Monday. So my plan is to basically go through
11 that joint filing.

12 Before we dive right in, I recommend that we just
13 go around the room and introduce ourselves, and then,
14 then we'll dive into the agenda.

15 MR. COTTERILL: Brian Cotterill with the
16 Department of Public Service.

17 MS. ELIAS: Jeanne Elias with the Department.

18 MS. LAUNDER: Kelly Launder with the
19 Department of Public Service.

20 MR. LYLE: Tom Lyle, Burlington Electric.

21 MR. BURNS: Chris Burns, Burlington Electric.

22 MR. PILLIOD: Jay Pilliod with VEIC.

23 MR. STEPHENSON: Robert Stephenson with VEIC.

24 MR. HILBERT: Mick Hilbert with VEIC.

25 MR. MASSIE: Jim Massie, VEIC.

1 MR. WICKENDEN: Michael Wickenden, VEIC.

2 MR. WESTMAN: Dave Westman, VEIC.

3 MR. KNAUER: All right. Welcome, everyone.

4 So does everyone have a copy of the agenda that was
5 filed on Monday? All right. So the first item was
6 previous DRP successes. I'll let someone else take
7 that one on, because I'm not sure what that means.

8 MR. HILBERT: Well, we can pick that up.
9 I'll see if Chris wants to offer anything on this.

10 MR. BURNS: Oh, you can take the lead.

11 MR. MASSIE: It's a short story, right?

12 MR. BURNS: Dark and stormy night.

13 MR. HILBERT: So, just in context for those
14 who may not have participated, in 2013 we spent a few
15 days in workshops to take a look at the inaugural DRP
16 and see if there were opportunities for improvement
17 there, and we did identify several things, and before I
18 talk about those, I just want to say briefly that,
19 while we did make some changes and we did see some
20 improvements, we did that with the benefit of the folks
21 who participated in the first DRP, and any improvements
22 were gained with their knowledge and insight in
23 addition to the group that worked on the second DRP.
24 I don't want anything to be construed differently.

25 So, after the Board Budget Order last year, which

1 essentially called for this workshop to take place, we
2 have had several discussions with the Department and
3 internally to reflect on the experience of the
4 proceeding, and one thing that we acknowledged was
5 absent was the voice of the Board, and so we're
6 grateful to have this opportunity, as we did last time,
7 to hear any perspectives that you folks might have to
8 offer.

9 So, in terms of what we changed, I'm just going to
10 go through a couple of things and try to talk about
11 what those benefits were from what we think is the
12 perspective of the ratepayer. The first thing that
13 happened was that we distributed a stakeholder survey
14 to quite a number of significant stakeholders to the
15 process, and we got a lot of feedback from those folks,
16 and it was included in workshop discussions, and I
17 think the process benefited from that.

18 In the workshops itself, we made significant
19 structural changes to the process itself. We
20 re-engineered it from a five-track process to a
21 single-track process. I think that was a significant
22 change. We spun off GT to a separate and more timely
23 process, and, significantly, we agreed to participate
24 jointly in an assumptions phase prior to the modeling.
25 The purpose of that effort was to coordinate and

1 reconcile across the parties involved in modeling the,
2 the basis of the modeling, the inputs, the assumptions,
3 policy, and technical considerations and so forth.

4 We also, in the modeling phase, changed to what we
5 call the one-tool approach. In the previous DRP,
6 separate models had been used to develop the scenarios,
7 and there was a considerable level of effort spent on
8 just reconciling the models as opposed to optimizing
9 the analysis within the portfolio. So there were a
10 significant amount of changes that were made, and we
11 think that the process benefited from those changes.

12 I think the most significant indicator of that is
13 that the first DRP took about 24 months to complete,
14 and the last DRP took about 14-and-a-half months. We
15 acknowledge that it would, we would have gained from
16 our experience from the first one and improved the
17 timing on it, but we think that another benefit was
18 that the assumptions were ordered by the Board so that
19 other stakeholders besides the EEU's and the Department
20 who would have liked to participate in the modeling
21 could understand how we were basing the models.

22 So any time, at least from the EEU's perspective,
23 that we can move resources off of NRA activities into
24 resource-acquisition activities, we think that's a win
25 for the ratepayers, and that certainly was the case in

1 this work, and we look forward to trying to accomplish
2 the same thing again. We're not sure that the second
3 time around we can provide the same incremental gains,
4 but we're here to do our best.

5 MR. KNAUER: I had one question. I don't
6 recall the inaugural DRP as well as perhaps some other
7 people do, but you mentioned using one modeling
8 approach in the second DRP. What, can you explain a
9 bit about in the first DRP the different modeling
10 approaches and how the second DRP was different just in
11 a little bit more detail?

12 MR. HILBERT: Yeah. I was not involved in
13 that proceeding either, but my, what I was told is that
14 there were, there was more than one model used to
15 develop scenarios between the EEU's and the Department.

16 MR. KNAUER: So, for instance, internally at
17 VEIC there were different modeling approaches used, or
18 the different organizations were using different
19 modeling approaches?

20 MR. HILBERT: Different organizations.

21 MR. KNAUER: Okay, great. Thanks. For some
22 reason, I recall someone may have been modeling, you
23 know, a top-down approach and the other a bottom-up. I
24 don't know if that was the difference or if that was a
25 difference of, say, residential versus commercial

1 services. I don't remember.

2 MR. MASSIE: That's true. It was commercial
3 and residential. Commercial was top-down. Residential
4 was bottom-up.

5 MR. KNAUER: Okay.

6 MR. WICKENDEN: But it also applied, I think,
7 to the difference between the consultants that the
8 Department hired to do their scenario analysis, and the
9 process that we completed had different approaches to
10 the modeling overall that, as I recall, they had a much
11 more of a, say, wholistic approach rather than a
12 piece-by-piece approach. So it was -- you know, we had
13 trouble reconciling some of the assumptions and some of
14 the inputs, and that's one of the reasons why we moved
15 that, the assumptions phase up front, so that we could
16 all agree on the assumptions rather than find out, Oh,
17 that model used a different assumption about low-income
18 spending than we did. So I hope that is it. I think
19 the other --

20 MR. MASSIE: I'd just add on that, the
21 Department didn't do modeling this last one, right?
22 You did it in the first round, but you didn't model --
23 actually, the VEIC model and BED model in the first
24 round and the Department did, and we tried. That's
25 where the reconciliation issues came up. This round, I

1 don't believe the Department did that, right? We did
2 the modeling, and you guys reviewed it along the way?

3 MR. COTTERILL: That's correct. And I think,
4 maybe just to clarify, at that time, I was brand new to
5 the Department. This is going back a few years, but I
6 think the concrete naming of the differences between
7 the models is, is that the models were the potential
8 studies, and, at that time, each entity did their own
9 potential study, and I think that's where the
10 differences came out, because the assumptions were
11 different. If that resonates with others in the room,
12 then that's how I would understand the characterizing
13 the modeling as the potential study in the first DRP.

14 In the second DRP there was a difference between
15 the modeling that happened to achieve the objective of
16 the scenarios, difference between that and the
17 potential study the Department did. The potential
18 study that the Department did was just a, basically, a
19 revision of the first one that we did, so --

20 MR. MASSIE: I think we did more than a
21 potential study. I think we also modeled some
22 scenarios.

23 MR. COTTERILL: Yeah, that's right. That's
24 what I meant to say.

25 MR. HILBERT: So the significant change, I

1 think, was that, in this past DRP, VEIC ran the model,
2 and we arranged with the Department and BED regular
3 check-in points so that we were able to understand the
4 progression of the modeling, and it's a three-month,
5 three-and-a-half-month process, and so it was a
6 collaborative approach, and the effort was put into the
7 analysis of the portfolio and getting the portfolio
8 right as opposed to spending resources on reconciling
9 how each black box worked.

10 MR. WICKENDEN: Yeah. Also, the other thing
11 in terms of just the process improvements, and maybe
12 you're going to talk about this, was the difference
13 between having different activities. We had, in the
14 first DRP we had what we called tracks, and then in the
15 second DRP we had, we organized it differently so the
16 decisions about activities were time-based rather than
17 tracked. Because we found that, when you did the
18 tracks, sometimes you had to wait for the decision of
19 one track because that informed another track, and,
20 consequently, you needed them to conceptualize it more
21 in a time sequence rather than as separate activities
22 that just ran parallel to each other.

23 MR. HILBERT: Yeah. One of the primary goals
24 of the workshops was to reduce the amount of rework,
25 and the experience reported from the inaugural DRP was

1 that, for example, when agreement or resolution was
2 reached on each track, there was a need to go back and
3 reconcile the impact of those decisions on the tracks
4 which had previously been reconciled with respect to,
5 What are we going to put into the portfolio for the
6 next three years? And so the change to a single track
7 resulted in not quite concurrent, but nearly concurrent
8 progress on the components of the previous five tracks,
9 but, at the same time and as opposed to, oh, probably a
10 dozen milestones in the inaugural DRP, we were able to
11 break the second one down into just five phases. Does
12 that help clarify?

13 MR. KNAUER: Yes, it does. And, I guess, a
14 follow-on is, Any of the lessons learned regarding
15 modeling, is there any way that we can pass any of that
16 knowledge on to the integration of Vermont Gas into
17 this proceeding? Because, you know, that's going to be
18 a new, new can of worms for us to deal with.

19 MR. HILBERT: Well, we're glad to see that's
20 a topic for consideration because we think that,
21 certainly, it can be accommodated, but we think that
22 we, probably all of us, need to get some better
23 understanding of what exactly the scope of that
24 integration would be. For example, Docket 7676, I
25 believe, the Board spoke about benefits to be gained

1 from basing the Vermont Gas modeling on the same
2 assumptions as the EEU modeling, and we think that
3 there should be some follow-on work to this discussion
4 with Vermont Gas and the Department, perhaps, to talk
5 about, Exactly what does that look like in terms of
6 integrating the assumptions, and is it the intent of
7 the Board to integrate the modeling of the scenarios in
8 some way?

9 You see, in many ways we, we consider this
10 discussion to be almost a scoping session with respect
11 particularly to VGS and possibly Act 56. We, one of
12 the advantages from the previous DRP is that, at least
13 from VEIC's perspective, is that we now have nearly
14 completed the development of a modeling tool that we
15 have in-house, and we're no longer in a position where
16 we're dependent on a sub-consultant to run the model.
17 So we have been able to tailor that model architecture
18 to support things like high-level analysis of the
19 portfolio based on program-level parameters, and we
20 believe we have the capability to accommodate
21 additional programs within it, but we are not certain
22 of what level of integration is contemplated, and we
23 suggest that that's a topic for further discussion
24 beyond this workshop to get some clarity on what that
25 would take.

1 And it does also, we think, raise the question of
2 certainly scope and, What's the impact on the level of
3 effort over the assumptions phase and the scenario
4 modeling phase? So it's, it's information that will be
5 helpful to respond to the Board's primary question with
6 respect to the lessons learned which is, Is there a
7 case to be made for modifying the timing of the DRP
8 procedure, proceeding? So it's a long linkage.

9 MR. KNAUER: Right. Okay. BED, do you have
10 anything that you want to add in terms of less than --
11 in terms of, you know, the process we went through
12 last, you know, three years ago in terms of looking at
13 the inaugural DRP and improving the process?

14 MR. BURNS: No. I think Mick reviewed it
15 well. I mean, we, with the Department and with EVT,
16 said it made the most sense cost-effectively for BED to
17 be part of the process from day one and walk through
18 it. I think we all learned a lot. You know, a lot has
19 changed from our perspective since the first one to
20 getting ready for the third one, and, you know, federal
21 energy standards, state energy standards, what we know
22 about our markets.

23 And that kind of leads us to an item further down
24 the agenda, and that is, you know, scaling one
25 territory to a larger territory can work to a degree,

1 but we're thinking that's not going to work very well
2 for BED going forward, and, when I say that, it's just,
3 you know, Is BED's territory similar enough to the rest
4 of Vermont to make that be a very cost-effective way to
5 go?

6 I think we can make a pretty good argument that
7 there's enough uniqueness within Burlington
8 residential/commercial split, the amount of rental in
9 both residential and commercial, the heavy saturation
10 of natural gas in both markets, that we need to take a
11 specific look at Burlington to get a more accurate
12 view, but, I think, in our conversations with the
13 Department, we can stay very close to the statewide
14 effort and then strategically take off-ramps where we
15 need to so that we don't get in the way of the process,
16 we maximize, you know, efficiencies in terms of getting
17 it done but -- I went further down on the agenda than I
18 probably wanted to but --

19 MR. KNAUER: That's all right. We'll come
20 back to that as well.

21 MR. BURNS: Yeah.

22 MR. KNAUER: All right. Anything else on the
23 first agenda item? Have we wrapped that up?

24 MR. HILBERT: Well, a question, perhaps.

25 MR. KNAUER: Yeah, sure.

1 MR. HILBERT: From the Board's perspective,
2 was there any benefit in the proceeding, the
3 modifications to it?

4 MR. KNAUER: I would say, from the Board's
5 perspective, many of the things that you and Michael
6 and Jim highlighted in terms of going from the
7 multi-track approach to the single-track approach, it
8 worked well. You know, again, the, the tracks
9 proceeding at different timeframes and then feeding
10 back into each other just was not efficient from a
11 Board staff perspective. So I think that worked well.
12 That's the biggest thing that I would highlight. I
13 don't think we have anything to add. I was imagining
14 that we'd spend most of today talking about the last
15 DRP and, you know, what we can do to make sure that the
16 next one is a success and gain any efficiencies we can.

17 MR. HILBERT: I'd just -- I'm sorry. I don't
18 mean to put you on the spot, but I recall --

19 MR. KNAUER: You can.

20 MR. HILBERT: Okay. Probably used to it. I
21 just recall from the previous effort that the, when we
22 talked about the current state, the Board's
23 observations were really helpful to us in terms of
24 getting a sense of what was a realistic scope for
25 modifications to the proceeding, at least in terms of

1 considering. So that's the basis for the question is
2 just to see if, if it made a difference to the Board
3 and also to inform going forward to proposing perhaps
4 different changes to the process, you know.

5 MR. MASSIE: I can offer an example. From my
6 recollection, the Board was really interested in the
7 parties drafting the language that the Board could use
8 in its final budget order or its final orders along the
9 way, and I think the Department, I found the Department
10 really helpful in moving that along so that -- and we
11 have plenty of support there, too, I'm assuming, but I
12 felt like we did that this time. Like, you talked
13 about the differences in the tracks and how it was very
14 challenging to write orders and navigate that process,
15 and I felt like the way we lined it up this time and
16 the fact that we could help with the language, I
17 thought it turned out fairly well, but I don't know how
18 the Board felt about that.

19 MR. KNAUER: Yeah, you're taxing my memory a
20 little bit. But, I mean, as a general matter, it, the
21 Board's decisions are made, you know, in response to
22 statutory requirements. So, whenever we are writing
23 something, whenever we're considering parties'
24 comments, to the extent that those comments relate in
25 some way to the statutory criteria, our goals, our

1 whatever, you know, it's very helpful for the Board.

2 MR. MASSIE: Yeah.

3 MR. KNAUER: I do think -- at times, I do
4 recall that, I think, in the first DRP we had to kind
5 of take someone's comment and say, We think this
6 applies to 209(f)(3), but we're not sure. So that's
7 helpful in terms of layout of comments, Here are all
8 the 209(d) (3), here are all the 209(f) criteria that
9 we're looking at, to make sure that your comments are
10 aligned with those, very helpful.

11 MR. WICKENDEN: You know, one of the things
12 that I noticed was we spent a lot of time on getting,
13 you know, the process right, what had to come first,
14 what had to come second, and I think we did a much
15 better job at that. We had a lot of process
16 improvement that way. I think the one thing that I
17 would say that we didn't fully, at least I didn't fully
18 value in the beginning was, is when a decision occurs
19 in that timeframe, the closer you get to the end
20 because you have a, a more of a firm ending, there's
21 more and more pressure to get decisions made. Whereas,
22 if you start early in the process, you, one is able to
23 have a little more luxury in terms of discussions and
24 exploring the implications of a decision.

25 So, in my mind, I think we did a great job of

1 sequencing a lot of things. That, to me, was an
2 important, is an important attribute that, when we
3 start thinking about the sequencing or resequencing of
4 events for this, that we would want to look at
5 decisions that have a lot of impact and try to make
6 them earlier in the process so that we don't get into
7 this situation where a major decision has to be made
8 way at the end of the process and, consequently, it
9 really raises the pressure and shortens the discussion
10 about the implications of that. So that's the, the one
11 of the sort of new findings I take away from having
12 gone through that, the two processes, is that this,
13 this dynamic about where the decisions sit in that
14 general process.

15 MR. KNAUER: I think that's a good point. I
16 think parallel to that is when certain information is
17 filed within the process, which is some of the other
18 agenda items that we'll be getting to today. So,
19 anyway, moving along to the second agenda item, this
20 stems really from the Board's budget order. I won't
21 reread the language, but, basically, there was a
22 concern that the timing of the DRP may put some
23 limitations on the actual budgets that are sent -- set,
24 sorry, not sent --

25 And so, as I recall, in one of the workshops there

1 was an exchange between -- I don't know if it was the
2 Board members or staff and Mike and Jim from VEIC
3 talking about -- I think it was Scenario 3, and there
4 were -- someone said, Yeah, it would be a challenge to
5 get there. I think VEIC said they were up for the
6 challenge but it would be a real challenge, and so, you
7 know, if a DRP were to conclude earlier -- I know that
8 the P&A Document says the goal is to have the budgets
9 set and the DRP concluded six months before it's to be
10 implemented. If we were to modify that to nine months,
11 would that make it less of a challenge? If it was
12 twelve months? You know, if we go too early, how
13 realistic is it because things are changing so much?

14 And it could also go the other way. If potential
15 studies show, you know, there's really not that much
16 out there so let's halve the budget -- I'm being
17 extreme here -- if there was going to be some
18 significant modification up or down to either of the
19 EEU budgets, you know, how, how does the timing of the
20 DRP play with those?

21 MR. MASSIE: So great question. We love it.
22 We have been looking at -- I mean, it really goes to
23 what Mike was just talking about, I think, about the
24 timing of different aspects of the proceeding and how
25 some decisions can be, we think, should be made earlier

1 that enable the end of the DRP process to be much
2 easier to accomplish, and I think, specifically, I
3 think we've talked about, internally, about
4 compensation in the QPI setting and how we build that
5 into the assumption phase, which is something we asked
6 last time, but we weren't all in agreement about it, so
7 it didn't get included there, and we ended up doing the
8 QPI's at the end and the compensation about halfway
9 through.

10 But we believe that moving those critical pieces
11 to the front end, that first sort of first phase of the
12 process, would enable us to allow the Board to
13 establish the scenarios and then, and make decisions
14 about what's, you know, what models, you know, what
15 areas we would go. So we're proposing, basically -- I
16 mean, at some point -- I don't know when you want to
17 get that out. I don't know if now is the right time,
18 but Mick has got a side-by-side comparison. You want
19 to talk about it?

20 MR. HILBERT: Yeah. I think we took the
21 Board order to be a question primarily about
22 scheduling. I mean, there are aspects to the work that
23 are important, but the schedule is key, and so we
24 looked at -- I think it might be helpful just to start
25 with the preview. So, if you could pass these around,

1 I'll take one. This is just a high-level look at the
2 phase level schedule for the previous DRP. Those time
3 blocks are in green, and the actual dates for the
4 previous DRP which are in that orange color. And so,
5 just to sum it up, we were able to stay on track until
6 we got somewhere into the middle of Phase 3. Around
7 January, February is where things started to slip, and
8 the end result was that, while we were trying to get
9 the QPI order by June 30th, it actually came out on
10 October 10th.

11 There's another aspect to that sequencing that
12 we'd like to address in a subsequent conversation
13 further into the agenda, but, in terms of the schedule,
14 so we, despite everybody's best efforts, went into
15 October as opposed to July, so --

16 MR. MASSIE: So, before we switch over to the
17 next one, so one of the key pieces of this is that not
18 only the timing, but, when we talk about the critical
19 decisions that were made in the process and the timing
20 of those decision, that QPI piece happened in the
21 middle of the summer that year in that second year of
22 the DRP, and I think, you know, when we started sitting
23 down and trying to find times on the calendar with the
24 Department, it was, number one, just challenging
25 finding time in the summer when we could all be

1 available, and it really, I think we all had to be
2 available for those discussions.

3 So that was a little bit of a challenge, but it
4 really, because of the timing of everything and all the
5 other stuff, whatever else was going on at the time, it
6 put a lot of pressure on us to make decisions about
7 QPI's in a very short amount of time, and I think in
8 one meeting we scheduled two or three hours to talk
9 about this, and it was five minutes of 3:00
10 or something like that, and we were like, Oh, man, we
11 could sit here for another hour discussing this, and we
12 sort of just settled, and it was, I think we found that
13 fairly challenging in terms of a reasonable way to have
14 that discussion, because it was such an important piece
15 of the whole process, and, you know, it, I don't know
16 that we really had the full amount of time that we
17 could have valued by having some more discussion about
18 some of those pieces.

19 The other piece to that was in the processes,
20 because you build the QPI discussions in at the end,
21 you've completed your modeling, and then you talk about
22 what the final number is for the QPI's, so your
23 targets, basically, right? And the model doesn't
24 represent that, and I know we've had that discussion
25 before off-line, I think, on a couple of occasions.

1 And so we end up at the end of this two-year process
2 with a set of modeling results that don't get us to our
3 goals, and we don't think that's a reasonable way to
4 operate.

5 We'd rather see something happen closer to the
6 front end that incorporates where we think the targets
7 are going to be and then actually build a model that
8 are going to get us there, and then we can share with
9 you what those results are, These are exactly how we
10 plan to get there, and we would find a lot more value
11 in that, and it turns into our triennial plan, and
12 that's -- you know, so we ended up coming out of this
13 process without that, and that, to me, that's very
14 disappointing, to put all this effort into that process
15 and not have that at the end, so --

16 MR. HILBERT: Well, I think you summed it up
17 well. I mean, the end result was that the modeling
18 didn't support the triennial plan, and so it's, it
19 raises a question about, What is it we want to achieve
20 with the modeling? Do we want to come out of the
21 modeling process with a representation of what the
22 portfolio will look like for the next three years?
23 And, if that's the case, then we do need to consider
24 the timing of the key events that lead to and happen
25 during the modeling and what we want to come out of it

1 with.

2 I mean, we, it leaves us in a position where, in
3 order to get the same comprehensive look at what the
4 programs would be as we get when we model for the
5 scenarios, we would have to reproduce that effort to
6 generate the same level of detail for the plan for the
7 coming performance period, particularly the first year.
8 So it's, we think that some change in the sequencing
9 would result in scenario modeling that is more
10 representative of what the EEU actually needs to do to
11 achieve the best benefits possible from the portfolio.
12 And I think that -- well, we, we also wanted to talk
13 about scenario definitions, but that's further down in
14 the agenda. So we were on schedule, and what I'd like
15 to do is --

16 MR. WICKENDEN: Before we leave that, just
17 one more comment about the -- you know, I think we've
18 talked extensively about how, you know, changing the
19 order here would make or changing certain things would
20 make the model more useful at the end point if we knew
21 what the, the actual output, the required output was,
22 and that's why we're thinking of or we are suggesting
23 that those QPI's and the compensation case move up in
24 the structure.

25 The other component of that is, is that, from a

1 perspective of that you really, you know, want to align
2 the incentives in terms of you want to have -- we're
3 going to spend a lot of time and resources
4 investigating and proving those models, and you want to
5 have us and those that are engaged in the review of
6 that really focused on those, and by, by saying that
7 those are the ones, actually, you're going to use when
8 the process is over, one of those is actually going to
9 guide the implementation once this is done, you'd want,
10 you'd want the outcome to have, to be that value, to be
11 the actual result that you're looking for in contrast
12 to what we're doing now is we have those expected
13 savings that we produce, and then we apply, on top of
14 that, a, a stretch goal, and, therefore, the whole
15 modeling of the expected savings doesn't get you to the
16 what we need to do. So the model is useless. You
17 know, we don't go back to that model, and there's no
18 requirement, or there's no incentive for us to redo
19 those, that model.

20 So it's, it's sort of like we've wasted time in
21 creating that because what we finally end up agreeing
22 on is something different, and what we want to do is,
23 if we all think that that modeling is actually
24 instructive, you know, finding out what the pieces are,
25 agreeing on the, on the pieces of it, then we ought to

1 actually use it at the end.

2 We could do this a whole different way. You know,
3 we could say -- we could just look at cost per megawatt
4 hour and, instead of going through all the things about
5 building, you know, How many units of this particular
6 measure are we going to be able to get each year over
7 the three years? I mean, it's very detailed. You
8 know, we could come up with a lot less, spend a lot
9 less time and money by just looking at our historical
10 performance and say, Okay, you know you've got \$200 a
11 kilowatt hour for this program. So let's see. We'll
12 do that again for, you know, for your target for the
13 next three years, and then you guys go home and figure
14 it out. That, that's another way to do it, but that
15 doesn't then have any collaboration about, What are we
16 really going to be doing? You know, what are the
17 things that are going to be, we're going to be working
18 with our customers to deliver?

19 So if, indeed, we think that that's an important
20 exercise, and we are asking the EEU's to go through and
21 model a bunch of different scenarios, so, unless we
22 change that, to me, it makes much better sense to have
23 the outcome of those actual models be what they're
24 going to need to follow, be very descriptive of what
25 the things that they have to do to meet their goals,

1 and that's not what's happening now. Is that clear in
2 terms of the difference between what we're doing now
3 and what a change like that might produce?

4 MR. KNAUER: Yeah, I do follow that, yeah. I
5 think there's going to be a follow-on saying, So this
6 is our proposal.

7 MR. MASSIE: Yeah, it's coming. The other
8 point I just wanted to raise, too, though is in a
9 previous DRP, and correct me if I'm, either one of you,
10 any of you, if I'm not on track on this, but my
11 understanding was the Board ordered scenarios. We
12 built those models, and then there was a rate and bill
13 analysis of those models. Then we went through the
14 rest of the process, and then we established the goals.
15 So, in the rate and bill analysis, you don't actually
16 have the benefits in there. All you have is the cost,
17 and so, you know, in essence, you know, a more
18 effective way to do it would be actually have a model
19 that has the goals in it and the rate and bill
20 analysis, then it actually work and consider what the
21 impacts are, and I'm not sure that the Board actually
22 had all the information in this past DRP in considering
23 the rate and bill impact, because the savings numbers
24 weren't what we ended up at.

25 MR. KNAUER: My recollection is that the

1 modeling, the initial modeling, was filed sometime in
2 December. There was a subsequent -- there was a second
3 round of modeling that VEIC did in the February time
4 period, and then I think the Department filed a rate
5 and bill impact analysis in the April time period.

6 MR. MASSIE: Right, and then the goals were
7 negotiated after that, which increased the benefits.

8 MR. KNAUER: Correct.

9 MR. MASSIE: But we never went back and
10 revised the rate and bill. So, in fact, the Board --

11 MR. KNAUER: Yeah, I would agree. From the
12 Board's perspective, to the extent that the Board can
13 make a decision based on a whole set of both costs and
14 benefits, I think that would be a more meaningful
15 exercise.

16 MR. MASSIE: Yeah, I think so.

17 MR. HILBERT: The other thing I wanted to
18 discuss is under the benefits of the improvement work,
19 but I was eager to get into the meat of the meeting,
20 but I think that -- I know that VEIC learned a lot from
21 the collaborative process that we went through with the
22 Department. The modeling phase was three-and-a-half
23 months, and, during that process we scheduled, I think,
24 four check-in, formal check-in meetings with the
25 Department and the Department's consultants who are out

1 there --

2 MR. MASSIE: Who now work for BED.

3 MR. HILBERT: Right, yeah.

4 MR. LYLE: I'll hide here. I'm not going to
5 say anything.

6 MR. HILBERT: -- and with BED to review the
7 current state of the model, very much like a design
8 phase where you go so far and you sit down with the
9 involved people and say, Well, this will work, but
10 maybe that won't, and so that's kind of an intangible
11 benefit that comes out of a collaborative modeling
12 process, but I think it's really valuable in terms of
13 optimizing a portfolio. Because, if, I mean, if you
14 send one party off to come back with a model, they're
15 going to give you the best they have, but it's not
16 going to be as good as what comes out of a group
17 effort. So I think it's important to preserve that
18 collaborative benefit in the modeling so that the
19 portfolio is actually optimized.

20 MS. LAUNDER: Can I ask a question?

21 MR. KNAUER: Yes.

22 MS. LAUNDER: In the scenario described,
23 where does the budget-setting part come into that,
24 before you're determining the QPI's or after you do the
25 modeling?

1 MR. MASSIE: In the last round it was before
2 the QPI's were set.

3 MS. LAUNDER: No, I know, but I'm talking
4 about in what you're proposing as a potential switch.

5 MR. MASSIE: So do we have that on this
6 sheet? This is the one with blue on it.

7 MR. HILBERT: Jim, just a moment.

8 MR. MASSIE: Yeah.

9 MR. HILBERT: We wanted to have something to
10 point at in this discussion so that people would have a
11 reference. It's sometimes difficult to gather all the
12 pieces of a complex proceeding in your mind and
13 actually make sense out of it. So we pulled together
14 this conceptual schedule, but I want to be careful to
15 characterize it as a concept for discussion, and it's,
16 it's not a formal proposal. It's an idea, and it's
17 meant to illustrate a concept that we're discussing
18 about changing the sequencing. We recognize that it's
19 not thought out to a level of a proposal, but we wanted
20 to float it and get a sense of people's response to it,
21 and we'd be happy to develop it more. I'm not saying
22 we can't discuss it now, but I just wanted to properly
23 characterize it for this discussion. Sorry, Kelly.

24 MS. LAUNDER: That's okay. You haven't
25 answered when would the budgets be set.

1 MR. WESTMAN: I think it's in -- I mean, I
2 just got handed --

3 MS. LAUNDER: Is it after the QPI's are set
4 or before?

5 MR. WESTMAN: Yeah, it's all part of the QPI
6 process there, so --

7 MS. ELIAS: This looks simultaneous.

8 MS. LAUNDER: Yeah, that's why I don't --

9 MS. ELIAS: It looks like you do it all at
10 once.

11 MR. MASSIE: It's all part of the assumption
12 phase.

13 MS. LAUNDER: So the reason I ask is, I mean,
14 you know, I'm very practical, and I can, in a practical
15 sense, say, Okay, let's say we decide that the QPI's,
16 like, the metric for savings should be double and
17 that's what, that's the metric, and you go off and say,
18 Okay, great, and it's going to double the budget. That
19 would not be, that would not be something that we would
20 be able to go forward with. So I'm just trying to
21 understand, in this world of setting an actual number,
22 not the framework, an actual number of goal to achieve,
23 how does that get framed in a way that it's not a
24 doubling of the budget or something? It's not just
25 plug it into the model, and we'll tell you what we can,

1 how we will achieve that and how much it will cost. I
2 don't --

3 MR. HILBERT: Well, that's a good point.
4 How is the budget determined now?

5 MS. LAUNDER: Well, I think that's where the
6 modeling, the scenarios give an idea of what the
7 savings could be at different levels, and then you kind
8 of say, Okay, and there's a rate and bill and there's
9 other information that goes into where do we end up
10 proposing at the, you know, at the later stage.

11 MR. HILBERT: Right. That's, I'll offer that
12 that's the theory, and it's valid. It appears that the
13 reality is that the true sensitivity of the scenario,
14 the impact of the scenarios on the budget determination
15 is somewhat a function of sensitivity of the rate and
16 bill impact. I mean, we're getting into the scenario
17 discussion, and I'm not trying to take your place in
18 this, Brian, but one of the observations that many
19 people have had of the process is that the concept of
20 bracketing the scenarios certainly makes sense in terms
21 of initially defining the range of possible
22 cost-effective energy efficiency savings.

23 The, the reality to us, it appears, is that we
24 have been operating at a cost-effective level achieving
25 energy efficiency for many years, and it's fairly

1 stable, although the yield rates, as one would expect,
2 are going up. We, we know from the potential studies
3 that we're not bumping up against the ceiling.

4 I think this statute requires, essentially, the
5 Board to direct, and I don't mean to be speaking for
6 the Board, to achieve all cost-effective energy savings
7 while thinking about rate and bill impact. So, since
8 the EEU's are efficient and cost-effective and there's
9 not a ceiling at this point within the range of impact,
10 potential impact, that's acceptable on the rate and
11 bill, it, it might be worthwhile to think about
12 narrowing the range of the scenarios to the likely
13 range of acceptable rate and bill impact and then
14 optimizing that realistic scenario range based on what
15 would be most advantageous to the ratepayers in terms
16 of benefits, whether it's, you know, depending on how
17 the climate changes, whether it's TRB's, it's peak
18 reduction, but whatever the parameter is, maybe we
19 should think about narrowing that range and allowing
20 the Department and the EEU's to apply their expertise
21 within the range of possibility and optimize for the
22 best value for the ratepayer.

23 So we've kind of -- your question got us further
24 down on the agenda, and that's great, but I just wanted
25 to note that.

1 MR. WICKENDEN: Yeah, and I think the other
2 maybe point of misunderstanding is, when we were
3 talking about having the decisions made around the
4 compensation structure and the methodology to determine
5 the QPI's, we weren't, we weren't suggesting that the
6 QPI's get set in terms of a numeric value but that the,
7 but that the percentages of stretch and super-stretch
8 get set so that they're flexible, they apply to any
9 scenario.

10 So, if you, for instance, agreed that there would
11 be a 10 percent and a 10 percent, a 10 percent over
12 your expected savings to make the stretch and then a 10
13 percent for your super-stretch, you could apply that to
14 any, you know, budget analysis, any scenario analysis
15 you did to have the outcomes then match what you would
16 need to, to achieve those QPI's.

17 Same thing with the compensation. If you had a,
18 you know, agreed upon a -- what do have now -- like,
19 say, three-and-a-half, one-and-a-half and
20 three-and-a-half percent, you know, operations fee.
21 You could take those percentages if you agreed upon
22 them ahead of time and apply them to any of those
23 budget streams and come up then with a total package
24 that they would need for the rate and bill analysis.
25 So you would still -- you'd send all that, you'd get

1 through this process, and what the Board would be
2 provided with is, you know, theoretically, for
3 instance, three scenarios that would show, you know,
4 what the total cost was including the compensation and
5 performance fees, what the goals would be in terms of
6 the QPI goals, and then what the rate and bill analysis
7 would actually be based upon a full consideration of
8 the benefits and a full cost.

9 MR. MASSIE: And then the budget order would
10 come out.

11 MR. WICKENDEN: And then the budget order
12 would come out.

13 MR. MASSIE: And, ideally, the way Mick
14 described it, we would have narrowed the options in in
15 the scenarios so closely that the Board would just
16 choose one of those as opposed to picking somewhere
17 either above or below or somewhere in between one of
18 the scenarios. It would be ideal if they just chose
19 one of the ones we modeled, right, and then we could
20 just move forward.

21 I just want to be clear about something that Mike
22 said, though. I think, you know, the concept of
23 developing up front only the stretch rates doesn't
24 actually get us quite to what we need, I don't think.
25 I think we need -- I think we can use that concept to

1 apply to whatever we do to build something that we can
2 model to. Like, I don't want to end up with a model
3 that then we have to stretch again. So it's really
4 about, Are we establishing stretch on historical
5 yields, or do we actually just establish those goals?
6 We do what Mike said at the beginning which is, Here's
7 what we think the scenario budgets would be and here's
8 how we're going to get to those goals and here's the
9 number, you know, for energy, maybe not the market
10 transformation, maybe not the comprehensiveness or some
11 of those other ones, but we're really talking about the
12 energy and demand and TRB numbers, and if we knew what
13 those were up front, we can actually build the model to
14 get to those targets.

15 MS. LAUNDER: Well, that's what I heard you
16 saying.

17 MR. MASSIE: But I think you can do it the
18 way he suggested it too. It just requires a different
19 way to look at it which is --

20 MS. LAUNDER: But it still doesn't seem like
21 it achieves what you --

22 MR. MASSIE: Well, it could. As long as you
23 -- if the assumption is you're going in saying, Here's
24 what the historical yields were and we're going to
25 stretch those by a certain number and you just apply

1 those going forward and you have complete agreement how
2 you're going to do that, but I think that's more
3 challenging. I would rather see us just get numbers
4 and then build a model to get to the number.

5 MR. WESTMAN: And I think we can all agree
6 that we are not going to come in with a position that
7 the budget should be twice as much as it is now. I
8 mean, the budget is relatively flat with the, with
9 allowances for inflation, you know, and, I mean, I
10 think we would, we would look at that in terms of what,
11 What do the trend lines indicate, as a starting point.

12 MR. COTTERILL: So in the P&A Document when
13 you look at the, the DRP proceeding section, were what
14 we just discussed become a reality under what's
15 currently expected as the P&A, Section 2(1)(d), there's
16 a sentence at the last, the last sentence in that
17 paragraph is related to the scenarios, and it says that
18 scenarios shall be either budget- or savings-based, and
19 one of my reflections is that on the DRP generally, big
20 picture, but also trying to build off this
21 conversation, is that, for what we've just talked about
22 to become a reality, that that would need to change.

23 MR. MASSIE: I don't think so.

24 MR. COTTERILL: You don't think so?

25 MR. MASSIE: No. I think they could still,

1 if we knew what the budget scenarios were, right, you
2 could establish the QPI targets based on some sort of
3 stretch yield. So the budgets are still based on flat
4 budget, 2 percent, you know, whatever the next level up
5 which is historical DRP budgets, and then 3 percent
6 savings or whatever. So you do have two budget
7 scenarios.

8 What you'd be negotiating up front would be, in
9 the assumptions, would be, Okay, take these budgets.
10 What do we think that's going to get us to a goal?
11 What's the stretch goal? And then we build the model
12 that stays within that budget and gets us to the goal.
13 So the Board could still order two budget scenarios,
14 and we would then have to talk about what the savings
15 would be, and then we'd build models to get to the
16 budgets for those savings.

17 MR. WICKENDEN: I do get your point, though,
18 in terms of it probably, it puts a lot less, there's a
19 lot less likelihood that we'd, we'd recommend a
20 scenario to be analyzed that was based upon a savings
21 percent reduction. They'd be budget-based scenarios
22 rather than savings-based.

23 MR. COTTERILL: Yeah, or they could be both,
24 they could be budget- and savings-based, the scenario
25 is "X" budget with these savings. It could be, you

1 know, a very general or more as like a percent of
2 sales, or it could be more specific, like, a whole set
3 of QPI's over the top ones.

4 MR. HILBERT: Yeah, optimized for TRB's, for
5 example.

6 MR. WESTMAN: We could optimize for a lot of
7 things.

8 MR. HILBERT: Well --

9 MR. COTTERILL: But I think, I mean, that
10 line, I think, as I think back on the DRP budget- or
11 savings-based, I think it encourages sort of a really
12 broad set of scenarios, you know, you know, level with
13 inflation, you know, ramping and, you know, some
14 extreme amount of savings as a percent of sales which,
15 which budgetarily is a far reach, I think, as our
16 experience is we've seen those budget numbers and those
17 savings.

18 MR. MASSIE: Yeah. So I think, to try to go
19 back to the question, I think, Tom, you started with is
20 like, Could we achieve 3 percent or 5 percent savings
21 given enough time? And I think the sheet with the blue
22 boxes on it is really what we just talked about which
23 is we do these assumptions up front, we know what the
24 budgets are going to be, essentially, for modeling, we
25 know what the yields and the goals would give us, then

1 we do modeling to get to those numbers. So in this
2 model the Board orders its budget somewhere, you know,
3 April, May, June timeframe of 2017, and if the Board
4 were to select one of those, we already have a plan.
5 We've already built that plan. So now we've got time
6 to figure out how we're going to start launching that
7 in January.

8 So that's much different than where we've been,
9 which is we've got an October order, we don't have a
10 model that gets us to the number, and, okay, you're
11 basically starting from scratch if it comes out that
12 late, but if you're able to build the model so that you
13 have got those assumptions up front, you've got the
14 model that gets you to those goals, and, if the Board
15 were to choose one of those, I think we're in good
16 shape.

17 MR. KNAUER: I also think, from our
18 perspective, one thing that happened last time was the
19 potential study was filed later in the process, and I
20 think the P&A calls for the potential studies to be
21 filed in advance of modeling, and I think that's very
22 useful, because a potential study will hopefully give
23 some sense of rate and bill impacts, and so, just based
24 on a study of that, you can say, Okay, these are
25 outside of the realm of possibility, so don't even

1 bother modeling this.

2 MR. MASSIE: And that's what we've done in
3 this model. We've suggested that the build for the
4 potential study happen in the first phase.

5 MR. HILBERT: That's essentially the logic
6 behind the concept, that is, we spend three-and-a-half
7 months on modeling scenarios. Let's model something
8 that we can use and that will maximize the benefit for
9 the ratepayers.

10 MR. MASSIE: So, just to think about how that
11 would work, I mean, obviously, we've got all the blue
12 boxes are all together for every row, so you really
13 can't tell when this all this happens, but I think the
14 potential study would be one of the first things the
15 Department would do, and that would inform the
16 scenarios that come out of the back end of Phase 1.
17 You would say, Okay, let's go after the full potential,
18 or let's go after something less than that, but that's,
19 that's information you would need to be able to issue
20 those scenario orders.

21 MR. WICKENDEN: Yeah, and I think he's
22 modeled that in terms of the potential studies listed
23 from June through finishing up in November, and then
24 our scenario modeling starts in December.

25 MR. MASSIE: Right, but I think that the

1 concept that I'm trying to say is that the potential
2 study has to happen in these first two or three months
3 because you still have some work to do to get to a
4 place where you can actually get the Board to issue an
5 order on scenarios.

6 MR. HILBERT: How you want to break it down
7 to that level here.

8 MR. KNAUER: From a practical perspective,
9 assuming the Department is the one contracting for a
10 potential study, how much lead time is required?

11 MR. COTTERILL: Well, that's a good question.
12 Lead time, I mean, like total time to --

13 MR. KNAUER: From saying, Okay, we need to go
14 out and find a contractor --

15 MR. COTTERILL: To the final product?

16 MR. KNAUER: -- to a final deliverable.

17 MR. COTTERILL: Right. Certainly, a matter
18 of months, and, you know, easily -- I don't know --
19 four months, and that would be pretty aggressive, I
20 would say, and I think it could have even more time
21 when you think about all the collaboration and
22 coordination that we would want to have. And we're,
23 we're fine, we're fine with doing the potential study
24 again and doing the coordination, and I think that's a
25 good role.

1 Now we have, because we have EVT, BED, and Vermont
2 Gas now and potentially a new effort to think about
3 sort of coordination and to what degree programs
4 overlap and how should that be modeled, if at all. So
5 there's new complexities, I think, to consider. So it
6 might make that timeframe even longer.

7 MR. MASSIE: So I would just ask. I mean,
8 this model says we need this kick-off order, right, and
9 last time it was in June. This time it's proposed for
10 April or May, and I, I'm not sure why it needs to
11 happen so late. If the Department needed four months
12 or six months to be able to start that process and that
13 was one of the first tasks that needed to happen, why
14 couldn't the order come out in January kicking off the
15 DRP, you know?

16 MR. KNAUER: From my perspective, no order is
17 required for a potential study to be commenced. I
18 think that's already called for in the P&A Document. I
19 might be wrong, but I don't think I am.

20 MR. COTTERILL: No, I would agree. I mean, I
21 think one of the natural outcomes of this meeting would
22 be to think about the schedule and, be it the official
23 schedule for the DRP that come from the Board order,
24 but also some of the other things that could start
25 happening sooner, including some of the things that are

1 listed in the parking lot on the agenda that we
2 provided, you know, and not to get into any of these
3 right now, but these and, and maybe more, maybe not all
4 of these, maybe these and more could be tackled and
5 ready for action when the DRP is sort of in its
6 official schedule, you know, Board-scheduled phase.
7 So, to me, at least, that's a natural outcome of this
8 workshop is more scheduling work.

9 MR. LYLE: So, if I can go back to the
10 potential study and the timing, it almost, based on
11 this schedule, it almost seems as if we've got to get
12 that going, like, now, right, I mean, to scope it out,
13 get the RFP?

14 MR. COTTERILL: Yeah, I don't think it would
15 hurt. I mean, I assume -- I don't think it would hurt.
16 I think -- I know one of the things is -- I believe one
17 of the things that BED has mentioned is impacts from
18 Act 56, generally, and in the frame of a potential
19 study, so --

20 MR. LYLE: Yeah.

21 MR. COTTERILL: I agree. I think it could be
22 started soon.

23 MR. HILBERT: Is there a possible opportunity
24 for that procurement to eliminate some fixed overheads
25 with multiple sub-consultants? I mean, if VGS is going

1 to be part of the DRP and the Department will look for
2 some expertise from another consultant for that and
3 also to perhaps collaborate in the EEU modeling, maybe
4 that could be a single solicitation that would actually
5 reduce the cost.

6 MR. COTTERILL: Right, right. And, I mean,
7 when I think back on lessons learned from just my
8 perspective in, in my role in the DRP for the
9 Department, we had, we had three sets of contractors
10 that we were working with, one for the potential study
11 update, one for the rate and bill impact analysis, and
12 then one set of contractors for technical assistance on
13 the modeling, and strictly from a project management
14 standpoint, it was not ideal, and doing it again, I
15 think, one efficiency could be to solicit, right, for a
16 number of different sort of types of roles, you know,
17 integrate all those efforts and maybe others for the
18 Department and have one contractor who could -- it
19 would just be less, less project management and trying
20 to get everything to line up. Certainly an observation
21 from my point of view. So it's good timing that we're
22 talking about all this.

23 MR. HILBERT: Yeah. So the concept is just
24 blocked out. If it's something that appears like it
25 might be acceptable in concept, we would be very happy

1 to work with the Department and BED and --

2 MR. MASSIE: VGS.

3 MR. HILBERT: -- and VGS and try to put some
4 flesh on the bones and get a sense of, What would it
5 really take to do this, and come back with a more
6 informed look at it that would hopefully answer some
7 more questions for us and for everyone else. But we,
8 as I said initially, we viewed this as, in essence, a
9 scoping session. Because there are so many pieces in
10 play, Act 56, VGS. In the parking lot there's RUS, and
11 we know in the stipulation that the Board has directed
12 that to be rolled into the DRP. So we have all of
13 these pieces moving around, and we think we need to get
14 a handle on them and come up with a way to integrate
15 these things into the DRP before we get into the actual
16 DRP.

17 MR. KNAUER: I have a question. That
18 stipulation you mentioned, can you specify which
19 stipulation?

20 MR. HILBERT: I hope so.

21 MS. ELIAS: I can.

22 MR. BANG-JENSEN: The one with the
23 Department?

24 MS. ELIAS: Yeah, the Department and VEIC
25 entered into a stipulation and filed it in the RUS

1 Docket 8486.

2 MR. KNAUER: I'm familiar with that.

3 MS. ELIAS: I thought so.

4 MR. HILBERT: And it does state that the RUS
5 work will be rolled into the DRP.

6 MS. ELIAS: Right. And, to be more specific,
7 the notion of a fourth-year budget is probably the
8 biggest piece of it that's going to have to work into
9 the timing.

10 MR. HILBERT: That's right.

11 MS. ELIAS: And who knows where the Board is
12 on that stipulation. We just, I mean, you issued the
13 order.

14 MR. KNAUER: Yes, we did.

15 MS. ELIAS: The order speaks for itself is
16 what I'm going to finish my sentence by saying.

17 MR. KNAUER: Yes. All right. Do we want to
18 go through this blue chart any more, or do we want to
19 go through the specific agenda items and see how they
20 might play into the --

21 MR. HILBERT: Yeah, we wanted to respond to
22 the Board's agenda items. Rate and bill timing, we had
23 indicated it as a clarification with a question mark on
24 our agenda end. I'm taking from the discussion here
25 that we are confirming that the rate and bill impact

1 should be filed with the modeling results.

2 MR. KNAUER: Correct. That's my read of the
3 P&A Document is modeling results should include rate
4 and bill impact rather than having that be a sequential
5 process with several months in between.

6 MR. HILBERT: Okay.

7 MR. LYLE: But, if I could just quickly. So
8 to what extent is -- I mean, the way I view this,
9 though, is the way you have it kind of scoped out here
10 now is all, everything kind of happens all at the same
11 time, but would it be better to kind of portray this as
12 somewhat sequential, so the potential study would begin
13 and end somewhat before some of these other items?

14 MR. HILBERT: We were hoping --

15 MR. LYLE: You know, like, potential study,
16 develop assumptions, those are probably pretty much in
17 synch with each other. You know, one depends on the
18 other. It's kind of an iterative process, but then the
19 budget, you would have some idea of some budgets for
20 spending but that you would firm them up sequentially
21 after the potential study? Is that, is that what
22 you're thinking or --

23 MR. HILBERT: Well, as I said, Tom, it's a
24 block of time, and it's not a well-developed schedule.
25 It's a concept.

1 MR. LYLE: Yeah.

2 MR. HILBERT: And so we're thinking that
3 those events would occur in that rough timeframe.

4 MR. LYLE: Right.

5 MR. HILBERT: But, as I said, you know, we
6 did not want to make the effort ourselves and also take
7 time with the Department and you folks to hash out
8 details for something unless we knew that it was
9 conceptually acceptable, so --

10 MR. LYLE: Yeah.

11 MR. HILBERT: You know, I'm not -- I want to
12 make sure to represent that we have not based that on a
13 detailed analysis of how it would come together. That
14 remains to be done.

15 MR. LYLE: Yeah.

16 MR. MASSIE: But, in concept, what you're
17 saying is right, that we would probably stage these.

18 MR. LYLE: Concept, yeah, okay.

19 MR. KNAUER: Okay. I think, going to some of
20 the specific things on the agenda, anything that we
21 need to say with regard to Act 56, other than it's a
22 whole big ball of wax?

23 MR. HILBERT: Well, I think it's the same
24 question, and that is -- and it may not be answerable
25 at this point in time, but is there a potential for

1 that to be, for at least part of that effort to be
2 represented in the DRP itself? And, you know --

3 MR. MASSIE: I mean, I think --

4 MR. HILBERT: BED had questions on it also.

5 MR. MASSIE: We had, we discussed 8311
6 internally, and, you know, in our proposal in the last
7 DRP for strategic electrification, and now we've got
8 Act 56 which is addressing some of the measures that we
9 were proposing in that proposal, and I think we talked
10 about not bringing that up here, but the reality is
11 that, you know, the impacts of some of those proposals
12 in that strategic electrification proposal were, could
13 impact where we go in the next DRP, and so we've been
14 kicking around, How do we resurrect that? You know,
15 will we get answers through that 8550 proceeding?

16 And the way I'm seeing it going, I don't think
17 that's going to happen, and so we may answer some of
18 the questions that we raised, but we don't think we're
19 going to answer all the questions that we raised. So
20 we're trying to understand how we can move that
21 forward, what the right time for that is so that it
22 could actually benefit the DRP process.

23 MR. WESTMAN: So to, again, we don't know how
24 or where it will play out, but, particularly, you know,
25 what's forefront in our mind is, in terms of whether or

1 not distribution utilities do intend on piggybacking on
2 EVT incentives in order to encourage utilization of
3 certain technologies. Heat pumps is the example that's
4 used in everyone one of these workshops thus far,
5 right? So, I mean, in terms of how that gets
6 integrated into the customer implementation plan or the
7 modeling results, however you want to term it, all of
8 those things need to sort of be considered, and that,
9 you know, I think Jim's made it really clear in the
10 workshops that many of you have been in, or at least
11 read the notes for, the, you know, our budget right now
12 can't support a full heat pump, you know, utilization
13 rate as an Act 53 compliance tool.

14 You know, we need to think about that, and some of
15 those questions, I don't think, are going to be
16 answered in time for the, for this. You know, we have
17 this is, you know, I guess, January -- what is it --
18 January 2017 to start the modeling. I mean, there
19 might be some things known by then, but, you know,
20 you're still looking at a very early implementation
21 schedule at that point. So I don't really know if we
22 can do anything more here than just flag that as a
23 potential issue.

24 MR. COTTERILL: One of the things I noticed
25 about Act 56 is, if you look at the, the budget stream

1 for Tier 3 investments over time, they increase, the
2 requirement for those increase annually every year, and
3 if you look at that total for the state over the course
4 of four or five years, that total investment starts to
5 really become much greater than what we've seen in
6 traditional TPI funding that's come through. So, in my
7 mind it becomes a bigger question as we get further
8 down the road in terms of what, what the programs are,
9 what the impacts are, what it means, I guess.

10 But I've thought about if there's any way to model
11 that in a potential study. You know, think of, like, a
12 fully integrated potential study, each EEU, electric
13 and thermal, all the fuels. It's just a big, massive
14 potential study that --

15 MR. WESTMAN: It's going to be a lot more
16 than four months, Brian.

17 MR. COTTERILL: But, I mean, you know, that's
18 the only thing that comes to mind when I think of just
19 trying to get a handle on what, what the reality is
20 going to look like, you know, down the road.

21 MR. WESTMAN: Is that for this DRP or maybe
22 the next one?

23 MR. COTTERILL: It's just an idea.

24 MR. WESTMAN: No. I'm, actually, I'm right
25 there with you, actually. I hear you.

1 MR. COTTERILL: But, I mean, you know, the
2 impacts of --

3 MR. MASSIE: But there are other pieces of it
4 too. You know, we were talking about heat pumps, and
5 that's something that we're doing today, and as Dave
6 articulated, there may be some limits as to how much we
7 can support in that arena, and the individual utilities
8 may want to do more than we can support. And so but
9 there are other things that haven't been addressed like
10 vehicles, transportation, that we see a tremendous
11 opportunity, and we just feel like there's, you know,
12 the benefits haven't been characterized, and we're not
13 sure where to introduce that, and we had originally
14 proposed that the Board open a proceeding. I'm not
15 sure. Did the -- I guess that's what 8311 is, and then
16 it --

17 MR. WICKENDEN: No, that came out of the
18 statute.

19 MR. MASSIE: Act 89?

20 MR. WICKENDEN: Act 89, right.

21 MR. MASSIE: So the Board actually hasn't
22 opened a proceeding on that recommendation, right? We
23 pushed it off because of Act 56?

24 MR. WICKENDEN: Right.

25 MR. MASSIE: And so the question of, How do

1 we value these other pieces in that proposal, hasn't
2 surfaced.

3 MR. WICKENDEN: Yeah. In some ways, we
4 talked about it in the avoided costs proceeding, and we
5 said that, you know, we were going to focus on the,
6 having the Board produce an order for the things that
7 we are immediately valuing but that we also talked
8 about having a continuation of that proceeding to
9 investigate the -- you know, one of the things was the
10 potential to investigate the T&D value in more depth,
11 but there were others.

12 You know, we talked about the CEED study that was
13 done to identify additional value for renewables and
14 siting of renewables and that that was another area
15 that had been suggested as that we needed to focus on
16 in terms of identifying additional values for
17 efficiency or renewables that hadn't been quantified.
18 So I'm thinking that we haven't seen the order yet from
19 the Board on the avoided costs but that that might, in
20 that order, establish a process for further
21 consideration of these items that we hadn't identified,
22 and that's where I was hoping we could pick up this
23 issue around transportation efficiency.

24 MR. MASSIE: But we don't know if the Board
25 has picked up on that, and if that's not the case, then

1 that's still an outstanding issue.

2 MR. LYLE: I'm not quite sure if I'm
3 following. I mean, to the extent that the Board issues
4 an order in the avoided costs docket, right, and
5 whether it picks up the issues you're referring to, EV,
6 cold-climate heat pumps, T&D, whether the Board order
7 incorporates those or does not, how does that feed into
8 the DRP process in light of 8550?

9 MR. WICKENDEN: Well --

10 MR. LYLE: I'm just, I'm not sure --

11 MR. WICKENDEN: From one perspective, yeah,
12 if, indeed, we identified values that are associated
13 with transportation --

14 MR. LYLE: Right.

15 MR. WICKENDEN: -- you know, they become
16 cost-effective --

17 MR. LYLE: Or not, yeah.

18 MR. WICKENDEN: -- measures, and then that,
19 at least, opens the door to, you know, who should be
20 implementing those measures. Is there a role for the
21 EEU's to implement those cost-effective measures also?
22 So but it's a moot point if they're not cost-effective.

23 MR. LYLE: Right.

24 MR. MASSIE: But then, you know, how it
25 impacts, obviously, that, the EEU question, right, but,

1 I mean, in the DRP, if it turns out that the EEU's
2 could implement transportation, then it's just like
3 heat pumps, right? I mean, you're basically growing
4 load, but, potentially, how we're treating heat pumps
5 within EVT right now is reclaiming incremental
6 efficiency on the most efficient models, right?

7 MR. LYLE: Yeah, right, right.

8 MR. MASSIE: So that would be the efficiency
9 piece, but it would be useful to have all that
10 information included in the 20-year plan, you know? So
11 I think it moves it all forward. The question is,
12 Could we start a proceeding and get through all the
13 process in time for the DRP? I don't know that that's
14 possible.

15 MR. LYLE: Yeah, right. I mean, does the
16 Board have an indication? Do they want the next DRP to
17 include cold-climate heat pumps and EV's assuming that
18 they are cost-effective and they're found to be
19 cost-effective during the process?

20 MR. KNAUER: Right, we've found that.

21 MR. WICKENDEN: And the issue is embedded in
22 8550 is, because it talks about cost-effectiveness
23 screening of, of measures in that docket, so either
24 it's going to be addressed in a separate proceeding or
25 potentially as part of that proceeding.

1 MR. LYLE: Yeah, I know it's not a
2 hypothetical. I guess it's a matter of who does it and
3 who has the budget for it, you know?

4 MR. HILBERT: So on this agenda we, the last
5 item was the scenarios, and we touched on that a little
6 bit in terms of talking about the sequencing, and I, I
7 just wanted to check back and see if there was any
8 basis for more discussion or questions around that,
9 because that's somewhat instrumental in part of the
10 concept. It's an aspect of it. Certainly, timing is
11 paramount.

12 MR. WICKENDEN: Just to be clear, on the rate
13 and bill impact, is it the Department's expectation
14 that that's one of their responsibilities or --

15 MR. COTTERILL: So --

16 MR. WICKENDEN: -- am I in the woods about
17 that?

18 MR. COTTERILL: You know, I was thinking back
19 about our experience with the rate and bill, and I, I
20 believe our primary intention with the rate and bill is
21 to meet the statutory requirement that the Board needs
22 to consider rate and bill impacts when setting the
23 budgets and less about -- and I think that's, in part,
24 what influenced the timing on our later delivery of the
25 rate and bill in this last DRP, but that's different

1 than what's in the current P&A, which is rate and bill
2 with the model results, right?

3 MR. WICKENDEN: Well, that was my question.
4 I didn't look at it.

5 MR. COTTERILL: So, yeah, that's my
6 impression is the rate and bill impacts.

7 MR. WICKENDEN: So those are, if I, if I am
8 understanding your response, you're reading that to
9 imply that the EEU, when they produce a scenario, that
10 they'd also be responsible for producing a rate and
11 bill impact?

12 MR. COTTERILL: Let me just read it here real
13 quick.

14 MR. KNAUER: That's how it's explained in the
15 current P&A as it exists today.

16 MR. MASSIE: That the Department is
17 responsible?

18 MR. KNAUER: No, that whoever is presenting
19 the modeling scenarios. The P&A says the EEU shall do
20 it, and anyone else that wants to may present modeling
21 scenarios, and then whoever presents modeling scenarios
22 shall -- you know, there's a number of minimum things
23 that need to be addressed, and rate and bill impacts is
24 part of that minimum.

25 MR. WICKENDEN: And somehow we got to a

1 situation during the 2015-to-17 DRP process where the
2 Department took that responsibility in terms of they
3 hired Synapse and paid for them to do the rate and
4 bill, and they did it on all three scenarios.

5 MR. COTTERILL: Right, right.

6 MR. WICKENDEN: So that was -- I was still
7 sort of under the assumption that that's how we were
8 moving forward, but I don't think we ever --

9 MR. COTTERILL: Right, right.

10 MR. WICKENDEN: -- clarified that.

11 MR. COTTERILL: Yeah, I think it's
12 conceivable that -- well, my thought is that we're
13 going to want to have a rate and bill impact analysis,
14 and it comes down to a question of timing. I mean, we
15 would most likely be hiring a contractor to, to do that
16 analysis, and which is a little disjointed. If the
17 EEU's are the ones doing the modeling, you know, we
18 would have to be coordinating so that those modeling
19 results --

20 MR. MASSIE: Do you read that that the EEU's
21 are responsible for rate and bill? That's what it
22 seems like to me.

23 MR. COTTERILL: Right, that's what I'm
24 saying.

25 MR. MASSIE: It was in your budget last time,

1 right? You paid for it.

2 MR. COTTERILL: I believe we did.

3 MR. MASSIE: It's not included in our budget.

4 So, if we're responsible for it and we didn't do it,
5 should we be doing it?

6 MR. COTTERILL: I think the intent was that
7 we'd be working together, but it took longer than
8 expected, and the DRP had nuances that we didn't
9 foresee, and it became complex. I think the intent was
10 to work more closely together on it, and I know at the
11 end there was concern from VEIC that there just wasn't
12 enough time to really understand even the final result
13 or analyze it and have any substantive comments on it.
14 I may not have that totally right, but it was late, and
15 that wasn't ideal. So, yeah, I think there's some more
16 coordination around just how the rate and bill impact
17 comes together, who pays for it, how we coordinate. Do
18 we want to do it separate? You know, we just need to
19 have that conversation.

20 MR. PILLIOD: Can I ask a clarifying, Brian?
21 Does the modeling have to be done before the rate and
22 bill?

23 MR. COTTERILL: The modeling before the rate
24 and bill in the current state, is that what you're
25 saying?

1 MR. PILLIOD: I'm just wondering, is it
2 dependent on the modeling being done?

3 MR. COTTERILL: Well, I mean, the way it
4 reads is that any presentation of model budgets and
5 savings by any party shall consider, at minimum --
6 there's a long list. At the end Items E and F are rate
7 and bill impacts.

8 MR. MASSIE: I think the answer is yes. I
9 mean, you have to know what the costs are, and you have
10 to know what the benefits are, and the rate and bill is
11 by rate class. So you'd have to know what you're
12 modeling by rate class and what the benefits are. So I
13 think you have to do the modeling and then you do the
14 rate and bill.

15 MR. HILBERT: Yeah, it's a finish-to-start
16 relationship.

17 MR. COTTERILL: I think so.

18 MR. WICKENDEN: I agree with that. So we'll
19 need to potentially clarify that between ourselves and
20 with the Board?

21 MR. COTTERILL: Um-hum.

22 MR. PILLIOD: And, I mean, if that's the
23 case, it's another one of these issues where we have it
24 all in one box of Number 3.

25 MR. MASSIE: Well, I think we were proposing

1 it as the last thing that happens, though.

2 MR. PILLIOD: It's just another, another
3 thing to consider. If you're talking about two
4 processes, one is dependent on the other, and you have
5 them in a six-month block, again, maybe it's a question
6 of timing, you know? If they have to run sequentially,
7 then you don't, you know, you can't do eight months'
8 worth of work in six months. So that just --

9 MR. MASSIE: Affects the schedule.

10 MR. PILLIOD: -- affects --

11 MR. MASSIE: Yeah, we'd have to look at the
12 schedule and see how it fits, yeah.

13 MR. KNAUER: All right. Do we want to get to
14 the item of the BED-specific potential study? Is there
15 anything to say about that?

16 MR. COTTERILL: I mean, we -- go ahead.

17 MR. BURNS: No, no, other than what I said
18 originally, and, you know, I think I've said it in
19 other workshops or proceedings. I mean, you know, it's
20 just, it's multidimensional right now. I mean, we, as
21 we tee up the next IRP, our planners are really trying
22 to figure out the EV world. We're trying to figure out
23 the PV world, the storage world, the cold-climate heat
24 pump world and trying to forecast what that's going to
25 do to us.

1 As I've said before, most of our resi new
2 construction is multi-family, and 90 percent of it is
3 now going to heat pump where before it was all natural
4 gas, and the reason that's happening is, from the
5 developer's perspective, it is the cheapest first-cost
6 HVAC system. You get two functionalities out of one
7 appliance, and their capital cost is lowest going in.
8 They think they need air conditioning to get the rent.
9 Whether that's true or not, that's what they're doing.
10 They think that their clientele wants air conditioning.

11 MR. MASSIE: That's new construction?

12 MR. BURNS: New construction.

13 MR. MASSIE: Is that right?

14 MR. BURNS: 100 units in the last
15 year-and-a-half, and that's about all we do. So that
16 has changed the dynamic for us dramatically. Before it
17 was, you know, we were concerned about a fairly small
18 set of electric measures and working with Vermont Gas.
19 Now Vermont Gas is pretty much out of the picture
20 because it's not their customer, and we are now heavily
21 involved in --

22 MR. MASSIE: Retrofit?

23 MR. BURNS: Well, no, savings from the
24 envelope, and in commercial we're now seeing what used
25 to be a standard boiler-chiller package, electric

1 chiller package. Now we're seeing VRF and variable
2 flow refrigerant all electrically driven. So we are
3 back in the envelope business, and how we're going to
4 model that is going to be very different from the last
5 potential study. So, and so it's sloshing around in
6 the tub, so to speak.

7 You know, we have a lot of PV driving us down. We
8 have EV coming in, but then we have a lot of heat pumps
9 coming in on both the commercial and the residential
10 side. So, hence, though it's going to be extra work
11 primarily for the Department, you know, we just really
12 feel a need that we have got to go deep and figure this
13 out as we try to put this world together.

14 MR. LYLE: So there's also a bit more of a, a
15 little bit more of a complication in terms of the
16 modeling with respect to cold-climate heat pumps and
17 EV's and EV supply stations, measures that build load.
18 So, currently, the screening model, when you model the
19 potential study, there's really four energy periods,
20 summer on, summer off, winter on and off for energy,
21 and so there's a bit of a discussion going internally
22 at BED between resource planners and energy efficiency
23 guys about, Well, how do we actually model and capture
24 both the benefits of, benefits and costs of
25 load-building measures? And the debate that's going on

1 internally is, Is the four-energy period process
2 precise enough to actually capture all of those
3 benefits?

4 So we haven't really figured out whether or not
5 it's that big a difference to really make an issue of
6 it right now, but I think, right, internally, I'm just
7 kind of laying that out there, that we're trying to get
8 our hands around this. So the idea would be to go to a
9 six-period energy modeling process which would include
10 both super peaks for summer and winter if you follow
11 me.

12 MR. BURNS: And I think some of our early AMI
13 analysis shows that there is -- you can see it. It's a
14 very small set of places we're looking at, but it's
15 clear, when you're looking at that 15-minute data, that
16 these things are hitting peaks. So for us it's a
17 matter of how quickly -- what's going to be the
18 saturation rate over time?

19 MR. LYLE: So they're both, they're both, you
20 know, things of concern. I mean, obviously, if we're
21 putting more heat pumps in, more EV's in, they can
22 drive our peaks, but to the extent we can control them,
23 well, then the energy efficiency guys in the house are
24 saying, Huh, these are benefits that we can potentially
25 control and therefore claim if we spend money on those.

1 So it kind of goes both ways, but what we have right
2 now -- I guess, the main point I'm making, I'm trying
3 to make here, anyway, is that what we have for modeling
4 process right now is somewhat of a blunt instrument.
5 That's all I have to say.

6 MR. BURNS: But I think that Brian's point
7 about that whole very comprehensive look, I think
8 that's exactly right. You know, the lucky contractor
9 who gets this bid, but it will be interesting. It's
10 interesting, and it's necessary.

11 MR. COTTERILL: Right.

12 MR. STEPHENSON: So would you require, like,
13 an updated different customized set of avoided costs to
14 do that type of analysis? Is that data readily
15 available? I'm just curious.

16 MR. LYLE: Yeah. I mean, we would try to
17 think about that. I mean, how would you capture that?
18 I mean, you have to model it. You have to model it
19 based on past, past history, you know, what, what
20 happens at those critical peak periods. So, I mean,
21 you can look at ISO New England, you know, prices, you
22 know, and use that data.

23 MR. STEPHENSON: Okay.

24 MR. KNAUER: All right. So was there an
25 intent to get into the parking lot issues or just to

1 note that they're out there? And, I guess, do folks
2 feel like we've adequately covered the items that are
3 on the first page of the agenda? I think we've touched
4 on everything directly or indirectly.

5 MR. HILBERT: I think, at least from my
6 perspective, we probably should be thinking about, So
7 what are the next steps in terms of how we put the
8 puzzle together? And I don't expect to do that today,
9 but I think, clearly, there need to be some follow-on
10 discussions in terms of how we can address the parking
11 lot items, and in discussing those it also touches on
12 the new influencers topic. So I know this is a DRP
13 workshop, but it seems like there's a fair amount of
14 things to sort out.

15 MR. COTTERILL: Yeah. I mean, just taking a
16 step back, I think maybe the intent of this workshop
17 was to take a look back and identify some lessons
18 learned. We've done that. I feel like we've done
19 that, and we've talked about some decent ideas. I
20 think there's clearly a number of next steps, and I
21 think some can happen outside of the Board process, and
22 I guess I'm curious about, What is the next Board
23 process? Does the Board need anything immediately? I
24 mean, that's one question, I guess. When I think of
25 kicking off the DRP, I think about basically what we

1 did last time, propose a schedule and, you know, likely
2 a joint proposal that we worked on and crafted together
3 would be certainly one thing that we would be thinking
4 the Board would want to see, right?

5 And then the other thing is, possibly, even before
6 that, maybe if that, if in the development of that
7 schedule proposal, there are things in the P&A that
8 need to be reorganized or clarified or resequenced a
9 proposal of that nature and additional process that the
10 Board may want. So I see sort of that three-level,
11 sort of three-level, three tiers of work.

12 MR. WESTMAN: What was of the third, Brian?
13 I caught the two.

14 MR. COTTERILL: Well, the first would be just
15 coordination and planning that the Department and the
16 EEU's should do outside of the Board process, follow-up
17 to this and that could potentially lead to a proposed
18 schedule for the DRP and --

19 MR. WESTMAN: Right, okay.

20 MR. COTTERILL: And, probably -- I'm not sure
21 if it's before or after, but if that schedule would
22 require any changes to the P&A, those would need to be
23 addressed as well. So that would be the third. I'm
24 not sure if that's actually the second or the third.

25 MR. WESTMAN: Or if it's two, slash, three.

1 MR. COTTERILL: Or if they're the same thing,
2 right.

3 MR. WESTMAN: Yeah, understood.

4 MR. HILBERT: It's similar to the path we
5 followed in the last DRP where the Board ordered
6 modifications to the P&A to support proposed changes to
7 the DRP process as it related to the improvement work
8 and other inputs.

9 MR. KNAUER: Yeah, my recollection is that
10 the, the, it was a proceeding that Lars was in charge
11 of, 2013-03 or 05.

12 MR. BANG-JENSEN: Yeah, I came in late, yeah,
13 right.

14 MR. KNAUER: But, anyway, that was a
15 proceeding that focused on making modifications to the
16 P&A Document in part to reflect, I think I it was, Act
17 89 and in part to reflect modifications to the DRP
18 proceeding, and those were contemporaneous proceedings,
19 the DRP as well as the P&A Document revisions.

20 MR. BANG-JENSEN: Yeah.

21 MR. KNAUER: Which brings up an idea. I
22 don't -- it seems like there is clearly value in laying
23 out in the P&A Document the essential elements of the
24 DRP proceeding, but if every three years we're going to
25 reshuffle the process and say -- you know, should the

1 P&A Document be less proscriptive about sequencing?
2 Just a thought to, for folks to mull. I mean, we love
3 redoing the P&A Document.

4 So, anyway, to come back to something Brian
5 mentioned, Does the Board need anything out of this
6 process? I'm not sure that we expect any filings from
7 stakeholders. I don't think that we intend to issue
8 anything, unless any of the stakeholders would find it
9 valuable, in a Board memo or a Board order, but I don't
10 think any such issuance from the Board was
11 contemplated. So anyone is free to request that from
12 the Board either now or after today. So anything else
13 that folks want to discuss, or have we exhausted the
14 issue?

15 MR. WESTMAN: I don't know if "exhausted" is
16 the right word, but teed it up.

17 MR. KNAUER: Would there be value in taking a
18 ten-minute break so folks can go off and caucus amongst
19 themselves, and then we can come back?

20 MR. MASSIE: Do we have other stuff? I don't
21 know that we have.

22 MR. WESTMAN: I'm just thinking for the next
23 meeting, not necessarily today, but next steps.

24 MR. MASSIE: I think we're good. I don't
25 know about others but --

1 MR. BURNS: We're fine.

2 MR. KNAUER: One question that we didn't
3 really hear from BED but, you know, we heard from VEIC,
4 that the modeling was kind of -- I don't know -- I'll
5 say frustrating. I don't know if that's an accurate
6 characterization, but that you did all this modeling
7 work, and then what you modeled was not what you
8 eventually implemented, and I'm not sure if that was a
9 shared experience for BED.

10 MR. BURNS: It was a slightly different path.
11 You know, we provided -- it was GDS, I believe -- a lot
12 of the information from BED's forecasting work, and it
13 was the GDS model. BED didn't do a separate model to
14 inform the DRP, so we didn't have any back-and-forth,
15 other than the model itself was not able to, you know,
16 get into the, the uniqueness of some of the rental
17 markets. You know, it tried, but it just wasn't built
18 to do that.

19 And, other than that, it was really just the
20 back-and-forth between BED, the Department, and their
21 contractor, and we used the same, the TRM assumptions
22 and all of the things as we used the same TRM, the same
23 screening tool, all of that was already baked into the
24 GDS tool. So it really came to us. It was really the
25 markets that was the issue, but the tool was the tool.

1 MR. KNAUER: Okay.

2 MR. COTTERILL: I've just got one thing that
3 I just thought of as it relates to potential studies,
4 and in the last potential study we used market
5 assessment data that the Department commissioned a
6 study for the residential-commercial markets, and that
7 baseline data gets rolled into the potential study as
8 the equipment saturation at the time, and we are in the
9 process of doing new ones, so new residential and
10 commercial market assessments, and this, this winter,
11 this fall and winter they started doing on-sites,
12 collecting, actually collecting the data for the
13 sectors, but we won't have final reports, you know, for
14 probably until the end of 2016.

15 So, if we're talking about doing a potential study
16 sooner rather than later, it misses the benefit of the
17 newer saturation data. It's just something that I
18 thought of as you mentioned that GDS study, the update.
19 Just thought it would be worth mentioning that
20 potential there.

21 MR. MASSIE: But it still could inform
22 modeling. So you could do the potential study, and you
23 could collect that information, and you still probably
24 would have it in time to perform the modeling. I mean,
25 you would have scenarios ordered by the Board that

1 would have to be modeled before that, maybe, but good
2 to think about how we could use that information to
3 update for modeling.

4 MR. COTTERILL: Yeah.

5 MR. KNAUER: All right. Anyone else? All
6 right. Well, thank you, everyone. I think this was a
7 useful meeting, and I look forward to what you guys
8 come up with. We're adjourned.

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13 (Whereupon at 2:55 p.m. the workshop was adjourned.)
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C E R T I F I C A T E

I, Sunnie Donath, do hereby certify that I recorded by stenographic means the Workshop re: Docket Number EEU-2013-01 at the Public Service Board Hearing Room, Fourth Floor, 112 State Street, Montpelier, Vermont, on December 9, 2015, beginning at 1:00 p.m.

I further certify that the foregoing testimony was taken by me stenographically and thereafter reduced to typewriting and the foregoing 73 pages are a transcript of the stenographic notes taken by me of the evidence and the proceedings to the best of my ability.

I further certify that I am not related to any of the parties thereto or their counsel, and I am in no way interested in the outcome of said cause.

Dated at Westminster, Vermont, this 17th day of December, 2015.

//Sunnie Donath