

MARITIME LINK COMPLIANCE FILING
TECHNIAL CONFERENCE

LOCATION: Westin Hotel, Halifax, NS

DATE: Monday, October 28, 2013

PRESENT: Mr. Rene Gallant (Chair)

Ms. Shellie Woolham

Emera Newfoundland & Labrador

Ms. Nancy Tower

CEO, NSPML

Mr. Rick Janega

President, Emera Newfoundland, Maritime Link

Mr. Bruce Marchand

Chief Legal Officer, Emera Inc.

Mr. David MacDougall

Mr. James MacDuff

Solicitors for Nalcor Energy

PRESENT: Mr. Greg Jones

General Manager of Marketing, Alcor Energy

Mr. Paul Humphries

VP System Operations and Planning, NL Hydro

Mr. John Woods

Mr. Aaron Long

Minas Energy

Mr. Don Regan

Mr. Albert Dominie

Municipal Utilities

Mr. Nelson Blackburn

Small Business Advocate

Mr. S. Bruce Outhouse, QC

Mr. Steve Pronko

Ms. Jocelyn Fraser

NSUARB

PRESENT: Mr. Pelino Colaiacovo

Mr. Brent Walker

Morrison Park Advisors

Mr. Michael Johnston

Heritage Gas

Ms. Nancy Rubin

Ms. Maggie Stewart

Solicitors for Industrial Group

Mr. Ray Ritcey

Lighthouse Energy

Ms. Kaitlin Saxon

Progressive Conservative Caucus

Mr. Gregory Decker

Ms. Nancy Rondeaux

NS Department of Energy

PRESENT: Mr. Stephen McGrath

Mr. Ryan Brothers,

Solicitors for NS Department of Justice

Mr. Ross Stairs

Mr. Keith Cronkhite

NB Power

Mr. William L. Mahody

Consumer Advocate

Mr. David Landrigan

Mr. Wayne O'Connor

Mr. Mark Sidebottom

Ms. Nicole Godbout

Nova Scotia Power

PRESENT VIA TELEPHONE:

Mr. Jim Smellie
Mr. Terry Dalglish
Mr. Philip Rathle
Mr. Todd MacDonald
Mr. Pat Bates
Mr. Tom Levy
Mr. John Athas
Mr. Paul Chernick
Mr. Seth Parker
Mr. John Adger
Mr. John Dalton
Mr. Tommy Vitolo
Mr. Scott McCoombs

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Per: Ms. Ainslie Moss

Monday, October 28, 2013 - 12:13 p.m.

6

1 (MEETING OPENS)

2 THE CHAIR: Good afternoon, everyone.

3 Welcome to the Technical Conference on the Maritime Link
4 Compliance Filing. I've tried to come and say hello to
5 everyone. If I haven't got you yet I apologize, but we'll
6 have a chance to chat before the end of the day, I know.
7 We're really glad everyone is here. I wanted to start with
8 a couple of things you should know.

9 First of all, we have some cameras here at
10 the beginning, and I've been asked to make sure you're
11 aware of them in case you want to be careful about chewing
12 your food on camera, Nelson, or if you're sitting next to
13 someone you don't want to be sitting next to on camera you
14 can address that.

15 They're just going to stay with us for a few
16 minutes to take some background footage for the media story
17 coming out of today's event. So, welcome, folks. Other
18 folks in the media are here in the seats behind the tables,
19 and so as always we have, to the best we can, an open and
20 transparent process and so I want everyone to be aware that
21 the media is here.

22 And we have explained that this Technical
23 Conference is for intervenors to understand the Compliance
24 Filing and to ask us questions about the Compliance Filing
25 and about the hearing, and so questions will come from

MARITIME LINK COMPLIANCE FILING - TECHNICAL CONFERENCE

7

1 intervenors, and I know we'll provide appropriate support
2 to folks in the main audience, including media, as
3 necessary after the hearing -- after the meeting.

4 I'd like to start with introductions and
5 remind you that the Board has directed that we record and
6 transcribe today's event, so we have Drake Recording here
7 with us somewhere, who will produce a transcript of the
8 whole Technical Conference overnight, so in the morning we
9 will circulate it to you. So, we'd like to have all the
10 names on the record so it's clear who attended and who was
11 involved.

12 It also means, although I'm told it may not
13 be completely necessary, but when you have a question it
14 would be very helpful for the transcription if you could
15 identify yourself each time for the record so that there's
16 no confusion about who's asking the questions when we get
17 to that point. So, I'm going to start here with Nancy in
18 terms of introductions. And use your mike, please, so we
19 can get the recording.

20 **MS. TOWER:** Hi, I'm Nancy Tower, CEO of Nova
21 Scotia Power Maritime Link Inc.

22 **MR. JANECA:** I'm Rick Janega, President of
23 Emera Newfoundland and Nova Scotia Power Maritime Link.

24 **MR. MARCHAND:** Bruce Marchand, Chief Legal
25 Officer, Emera Inc.

MARITIME LINK COMPLIANCE FILING - TECHNICAL CONFERENCE

8

1 **MR. MACDOUGALL:** David MacDougall with
2 McInnes Cooper representing Nalcor Energy.

3 **MR. MACDUFF:** James MacDuff, McInnes Cooper.

4 **MR. JONES:** Greg Jones, General Manager of
5 Energy Marketing, Nalcor Energy.

6 **MR. HUMPHRIES:** Paul Humphries, Vice-
7 President System Operations and Planning, Newfoundland and
8 Labrador Hydro.

9 **MR. WOODS:** John Woods, Minas Energy.

10 **MR. LONG:** Aaron Long, Minas Energy.

11 **MR. REGAN:** Don Regan, Municipal Utilities,
12 and with me is Albert Dominie, who just sat down.

13 **MR. BLACKBURN:** Nelson Blackburn, Small
14 Business Advocate.

15 **MR. PRONKO:** Steve Pronko with the Utility
16 and Review Board.

17 **MS. FRASER:** Jocelyn Fraser with the Utility
18 and Review Board.

19 **MR. OUTHUSE:** Bruce Outhouse, Board
20 counsel.

21 **MR. COLAIACOVO:** Palino Colaiacovo with
22 Morrison Park Advisors.

23 **MR. WALKER:** Brent Walker with Morrison
24 Park.

25 **MR. JOHNSTON:** Mike Johnston with Heritage

MARITIME LINK COMPLIANCE FILING - TECHNICAL CONFERENCE

9

1 Gas.

2 **MS. RUBIN:** Nancy Rubin for the Industrial
3 Group.

4 **MS. STEWART:** Maggie Stewart for the
5 Industrial Group.

6 **MR. RITCEY:** Ray Ritcey with Lighthouse
7 Energy.

8 **MS. SAXON:** Kait Saxon, Progressive
9 Conservative Caucus.

10 **MR. DECKER:** Greg Decker, Nova Scotia
11 Department of Energy.

12 **MS. RONDEAUX:** Nancy Rondeaux, Nova Scotia
13 Department of Energy.

14 **MR. MCGRATH:** Steve McGrath, Nova Scotia
15 Department of Justice.

16 **MR. BROTHERS:** Ryan Brothers, Nova Scotia
17 Department of Justice.

18 **MR. STAIRS:** Ross Stairs, Executive Director
19 of Operations, NB Power.

20 **MR. CRONKHITE:** Keith Cronkhite, Vice-
21 President of Generation and Business Development, New
22 Brunswick Power.

23 **MR. MAHODY:** Bill Mahody, Consumer Advocate.

24 **MR. LANDRIGAN:** Dave Landrigan, General
25 Manager, Legal and Regulatory, Nova Scotia Power.

1 **MR. O'CONNOR:** Wayne O'Connor, Executive
2 Vice-President Operations, Nova Scotia Power.

3 **MR. SIDEBOTTOM:** Mark Sidebottom, VP of
4 Generation and Delivery, Nova Scotia Power.

5 **MS. GODBOUT:** Nicole Godbout, counsel for
6 Nova Scotia Power.

7 **THE CHAIR:** And I should have introduced
8 myself. My name is Rene Gallant, I'm the Vice-President
9 Legal and Regulatory Affairs with Emera Newfoundland and
10 Labrador, or NSPML. So -- and Shellie?

11 **MS. WOOLHAM:** I'm Shellie Woolham, Project
12 Director Regulatory, Emera Newfoundland and Labrador.

13 **THE CHAIR:** So, before we get to the agenda
14 and the material we're going to review, I want to turn the
15 floor over to Nancy Tower again one more time.

16 **MS. TOWER:** Thanks, Rene. I just wanted to
17 say thank you very much to all of you for coming and for
18 your continued interest in this. On behalf of my
19 colleagues at Nova Scotia Power and Emera Newfoundland and
20 Labrador, thank you for that.

21 And our objective today, of course -- and
22 Rene -- well, I'll turn it over in a second to Rene -- is
23 really to give you the information on our Compliance Filing
24 to allow you to ask questions on the Compliance Filing.
25 Our objective, of course, as well is to answer all your

1 questions over the course of the next few hours, and
2 hopefully we will achieve that. So, welcome, and I'll turn
3 it back to Rene.

4 **THE CHAIR:** Thanks, Nancy. Could we have
5 the agenda slide. Thanks. So, this is our plan for the
6 time we have together today. We booked it for a few hours
7 and we have some flexibility if we're into a good
8 discussion and you would like to continue. We do have the
9 room for a little while longer than what your invitation
10 may have indicated, but we'll see how the day gets filled.

11 As always at Emera Newfoundland and Labrador
12 and other Emera companies and at Nalcor, we'll start with a
13 safety moment in just a minute, and then we'll want to walk
14 you through the Compliance Filing just to give you a high
15 level overview of it. We've had a lot of questions about
16 the energy that will be available over and above the fact
17 that we now have commercial assurance that it will be
18 available, and so we have some information to provide to
19 you about hydrology which we hope you'll find helpful.

20 And then we'll walk you through some of the
21 key components of the Energy Access Agreement, and we'll
22 have lots of time at the end of that agenda for questions
23 and answers. I would invite you to ask questions at any
24 time, but you may find, in light of the topics, that it's
25 helpful to wait until the end. I should say that I had

1 forgotten we have some guests on the phone, and so they've
2 been put on mute just temporarily, because sometimes when
3 you're on the phone there's a background noise that can
4 interfere with the room.

5 So, perhaps we'll go to the phones now to
6 let you know who is on the phone, and we'll tell those
7 folks that our preference is that if you're on the phone
8 you could hold your questions till the end so that we can
9 maintain that mute component till the end. So, let's go to
10 the phone, Ben, and we'll ask people -- I don't know who it
11 is, so I'm just going to have to ask you to try to jump in
12 and tell us who you are if you're on the phone.

13 **MR. SMELLIE:** Rene, it's Jim Smellie at
14 Gowling LaFleur Henderson, counsel together with yourself,
15 for NSPML.

16 **THE CHAIR:** Thanks, Jim.

17 **MR. DALGLEISH:** And it's Terry Dalgleish at
18 Davis in Calgary, counsel together with others, for Nova
19 Scotia Power.

20 **THE CHAIR:** Hi, Terry.

21 **MR. RATHLE:** Philip Rathle of (inaudible)
22 Centre. I'm in Montreal ---

23 **MR. MACDONALD:** Todd MacDonald from Lower
24 Power Rates Alliances.

25 **THE CHAIR:** Hi, Todd.

1 **MR. BATES:** Pat Bates in Sydney.

2 **THE CHAIR:** Hi, Pat.

3 **MR. LEVY:** Tom Levy with the Canadian Wind
4 Energy Association.

5 **THE CHAIR:** Tom.

6 **MR. CHERNICK:** Paul Chernick, Resource
7 Insight for the Consumer Advocate. Will you be sending out
8 the slides?

9 **THE CHAIR:** We can do that. We can send the
10 slides by e-mail to anyone who registered. Can we do that,
11 Shellie? Yeah, we'll try to get that done. We do have
12 hard copies of handouts for folks in the room, but we'll
13 also send them electronically so folks can pull them up who
14 are on the phone. Thanks, Paul. Good idea.

15 **MR. ATHAS:** This is John Athas from LaCapra
16 Associates.

17 **THE CHAIR:** Hi, John.

18 **MR. PARKER:** Seth Parker from Leviton and
19 Associates on behalf of the Consumer Advocate and Small
20 Business Advocate.

21 **THE CHAIR:** Sorry, your name from Leviton,
22 what was your name again?

23 **MR. PARKER:** Seth, S-e-t-h ---

24 **THE CHAIR:** Hi, Seth.

25 **MR. PARKER:** --- Parker.

MARITIME LINK COMPLIANCE FILING - TECHNICAL CONFERENCE

14

1 THE CHAIR: Thanks. Welcome, Seth.

2 MR. PARKER: Thank you.

3 MR. DALTON: John Dalton with Power

4 Advisory.

5 MR. ADGER: John Adger from Liberty

6 Consulting Group.

7 THE CHAIR: I got John Adger and then

8 someone else.

9 MR. DALTON: John Dalton with Power

10 Advisory.

11 THE CHAIR: Hi, John.

12 MR. VITOLO: This is Tommy Vitolo with

13 Synapse Energy Economics for the Nova Scotia Utility and

14 Review Board.

15 THE CHAIR: Welcome.

16 MR. VITOLO: And, actually, is there an e-

17 mail address that I -- I was not able to register for the

18 conference, but I would like the slides. So, if I can e-

19 mail to somebody then they'll have my e-mail address and

20 maybe they could send me the slides.

21 THE CHAIR: Sure. Shellie, s-h-e-l-l-i-e,

22 .woolham, w-o-o-l-h-a-m, @emera.com.

23 MR. VITOLO: Thank you very much.

24 MR. MCCOOMBS: Scott McCoombs here from the

25 Nova Scotia Department of Energy.

1 **THE CHAIR:** Hi, Scott.

2 **MR. MCCOOMBS:** Hi.

3 **THE CHAIR:** Is that it on the phone?

4 **MR. BATES:** Mr. Chairman -- Pat Bates -- it
5 would be helpful if all those intervenors would just
6 permits themselves to speak up. Some of the voices are
7 great, others are a little bit distinct.

8 **THE CHAIR:** That's a good point, Pat. We'll
9 try to make sure that we remind everyone. So, using the
10 microphones or being on the phone, we need to make sure
11 we've got the right volume so everyone can hear each other.

12 **MR. BATES:** Thank you.

13 **THE CHAIR:** Okay. So, we are going to go
14 mute on the phones for now so that we can do the
15 presentation and then we'll make sure we re-open them. Ben
16 is going to remind if no one else remembers, but we're
17 going to re-open the phones near the end when we get to
18 questions. Okay, Ben? Thank you. Ben is our technical
19 support here with the audio/visual.

20 Okay. Let's get into the conference. And
21 we're going to start with a safety moment. If you don't
22 have the slides yet on the phone, that's okay. There's
23 only one slide on the safety moment. So, Shellie, if you
24 could go the next slide. And where are the hard copies?
25 Do we have those accessible.

1 **MS. WOOLHAM:** We can pass them around.

2 **THE CHAIR:** Sure. Why don't we do that.

3 **MS. WOOLHAM:** Okay.

4 **THE CHAIR:** Let's get the decks in front of
5 people. Oh, there's Penny. Thanks, Penny. Well, it's
6 October 28th. I don't know how I could resist not doing
7 Halloween safety for a few moments and reminding us all
8 about the safety components of Halloween, and plus there's
9 no way I could resist the pirate dog picture. I had to
10 show you. Just a couple of points.

11 My kids are now, I think, finally too old to
12 trick or treat themselves but I know that many of us do
13 still have young children or grandchildren, and certainly
14 lots will be coming to our doors on Thursday evening, so
15 just a couple of things to keep in mind about Halloween
16 safety. If you are getting a costume or helping a child
17 with a costume, you might want to try to make sure that you
18 have a costume that fits properly and that's not dragging
19 on the ground that they might trip on as they're running in
20 their excitement to get from door to door, especially with
21 smaller children.

22 And you should make sure that younger
23 children in particular have brightly coloured outfits. I
24 know I used to make sure that -- when my kids were very
25 young that I found a way to attach one of those light

1 sticks, those glow sticks, to them, or you might use
2 reflective tape to make sure that they can be seen, and
3 whenever possible pick a costume that uses makeup instead
4 of a mask. In terms of decorations, my tip is don't put a
5 candle inside your pumpkin, you should use one of the LED
6 lights which works very well and is much safer.

7 Also, if you have a lot of decorations
8 around the outside of your home or on your porch, you may
9 find that you have tripping hazards so you should just
10 watch for those with lots of people coming to your door.
11 And then finally in trick or treating just, mostly for this
12 room, a reminder that kids are going to be -- no matter how
13 many times we try to prevent it and try to tell them not
14 to, they're going to be running across the street and
15 they'll be going in diagonals, and we should try to avoid
16 that if we're in charge of a group of kids.

17 But if we're out in our cars -- and for many
18 of us going home at exactly the time that trick or treating
19 is happening on Thursday evening -- this time of year when
20 it's darker earlier than perhaps at other times of the
21 year, it can be hard to see these young monsters running
22 out into the street. And so you really need to be alert
23 when you're driving home from work on Thursday to make sure
24 you get home and you're safe and the children are safe.
25 So, that is my safety message for Halloween week, hoping

25 I can tell you, for example, on the UARB

1 reporting requirements we were directed to meet with Board
2 staff to clarify those reporting requirements and then
3 Board staff was to report to the Board by October 15th. We
4 aligned with Board staff on what should be done, when, what
5 should be filed and that oversight requirement, and we
6 believe we've complied with that obligation, that
7 directive.

8 The key component of the Compliance Filing
9 and really the key condition that required some activity by
10 NSPML was the market priced energy condition, which, in
11 addition to being in paragraph 366, first appeared at
12 paragraph 228. So, if we could go to the next slide. This
13 is the condition, it's a quote from that paragraph. We
14 have all seen it, but essentially:

15 "The Board directs NSPML to obtain the
16 right to access market priced energy
17 consistent with the assumptions of the
18 application, noted in UARB IR-37 and
19 Figure 4-4, or some other arrangement
20 to ensure access to market priced
21 energy."

22 The Compliance Filing refers to other
23 components of the Board's decision, other paragraphs and
24 directions in the Board's decision that in our view were
25 relevant to understanding what this condition was really

1 directing NSPML to do.

2 So, if we could go to the next slide. So,
3 we want you to understand that the Board's decision was
4 released on July 22nd and both Nalcor and Emera and NSPML,
5 NSPI, we all immediately, of course, reviewed the decision
6 carefully and we got to work in trying to understand how we
7 would address the condition and the best way to meet the
8 requirements of the condition.

9 And meetings began really in that first week
10 and continued throughout the time period until we filed the
11 Compliance Filing last Monday. And in those discussions I
12 think it was very clear from the beginning -- and we
13 reiterated and reminded ourselves throughout the course of
14 the dialogue -- that there were certain foundational
15 principles that had to be met by the parties, each from
16 their own perspective and some shared.

17 And so, first of all, it was very -- it was
18 made very clear from the beginning by both Emera and Nova
19 Scotia Power that Nova Scotia Power and Emera would be
20 acting in the best interest of the customers of Nova Scotia
21 Power and that this would mean, in terms of accessing
22 surplus energy, at a minimum retaining flexibility in Nova
23 Scotia Power for the planning, the issuance, the management
24 of competitive solicitations for imported energy, always
25 with the best interest of customers in mind, and that was a

1 fundamental principle that drove our discussions.

2 And, I would say, equally important it was
3 very clear to everyone from Nalcor -- and we were reminded
4 from the beginning -- that Nalcor's foundational principle
5 at a minimum was that it has an obligation as the utility,
6 the generator of energy in Newfoundland and Labrador, to
7 serve its native load with the energy that it generates,
8 and that was a foundational principle that had to be clear
9 and it had to be represented in the agreement, and you'll
10 see it there indeed in the recitals to the agreement.

11 And we all agreed that there seemed to be no
12 doubt that the condition required commercially reasonable
13 commitments to be made, the condition required commercial
14 assurance, and all parties had to accept that these were
15 reasonable commercial commitments for a party to be making,
16 that the commitments would be -- although they would be new
17 commitments, they would be aligned with the original
18 intent, the work that's been happening all along between
19 Emera and Nalcor and Nova Scotia Power to ensure the
20 development of Muskrat Falls, the transmission of that
21 energy, the construction of Maritime Link and ultimately an
22 application as we presented to the Board in the spring of
23 the year.

24 And so with these as sort of the minimum
25 requirements, the foundational commitments, we spent time

1 working together discussing the options, I would say
2 vigorously negotiating the language and the alternatives to
3 reach the agreement that you now have in front of you. So,
4 before I go to that agreement I wanted to speak a bit to
5 hydrology. I've had some questions since we've filed the
6 agreement last week about the energy being available.

7 Folks have said, "Well, you have a contract
8 but it doesn't really" -- and I've had this said to
9 me -- "it doesn't really prove that the energy is going to
10 be there," which was the concern that intervenors had, will
11 the energy be there? And I wanted to hit that right up
12 front, address that right up front, and respond to that
13 question which may be on your mind, by saying a couple of
14 things.

15 Firstly, we understand that the Board's
16 direction was to ensure access to available energy by Nova
17 Scotia Power and its customers, on behalf of its customers.
18 The Board did not ask us to go get better evidence about
19 what energy would be available, they didn't ask us to re-
20 litigate our position that the energy would be there. They
21 asked us to go get commercial assurance that energy would
22 be made available, and so that's what we've done.

23 That being said, I think it's important for
24 folks to understand that we are confident that not only the
25 energy is going to be there, we're confident the energy

1 will be there to meet the terms of this agreement and more.
2 And so I wanted to remind intervenors and parties to our
3 proceedings about how we deal with hydro generation here in
4 Nova Scotia.

5 And I think you'll remember that the way we
6 do it is based upon forecasting, based upon average
7 generation of hydrology, and we also have folks here from
8 Nalcor, and you're going to hear from them as well about
9 the Nalcor system and I think you're going to see a very
10 analogous approach in both provinces to hydro generation.
11 If you are on the phone and you do have the slides -- don't
12 have them yet? We're still trying to get them to you.
13 Okay. We will get them to you. So, I will try to describe
14 what we're looking at here for the folks on the phone.

15 We have -- it's really going to be most
16 helpful when you get the slide, but we have a chart here
17 called "Annual Hydro Generation Nova Scotia" and on the one
18 axis we have, GWH per year, in increments of 200 from zero
19 to 1,400 GWH, and on the bottom axis we have a time period
20 of about 35 years, not quite perhaps, from the late '70s to
21 2012, and we have a sinusoidal kind of curve with dips and
22 valleys and peaks in a blue line that shows generation,
23 actual annual generation from Nova Scotia's hydro
24 facilities, dipping from -- well, it starts out just above
25 800 GWH and it goes up above 1,000, almost to 1,200, and up

1 and down, to a low in one year as low as about 700 GWH.

2 And then finally you'll see the red line,
3 which is a straight line, where we have the average of
4 these actual results. And that straight line of average
5 hydro generation is at 980 GWH per year. That's what, on
6 average, Nova Scotians can expect from our own hydro system
7 by way of energy, 980. But we're not necessarily going to
8 get 980 exactly -- maybe in that one year -- in very many
9 years, because it's an average. We're going to get ups and
10 downs. It's going to go above it, it's going to go below
11 it.

12 In Nova Scotia we forecast hydro generation
13 based upon a 23-year average, and we do that forecast to
14 predict what the cost of our energy is going to be. So,
15 it's about -- really about rates. We forecast that we're
16 going to get 980 GWH of hydro production, and that's 980
17 GWH that we don't have to produce using coal or oil or any
18 other form of generation, and so that goes into our cost
19 forecast.

20 And if it doesn't show up, like in this year
21 or in this year or in this year, but Nova Scotians need the
22 energy, we use something else, we use whatever other
23 generation we have, thermal generation or otherwise, wind.
24 We fill it in. And that changes the price at the end of
25 the day, the cost of generation that year. If it does show

1 up and more, like these years where we hit 1,200, or almost
2 1,200, or 1,100, then we have more hydro which in the year
3 it shows up in Nova Scotia helps reduce costs to customers.

4 So, we predict using an average and then we
5 get there, we react to whatever actually shows up, but we
6 know because of the long-term data we have that the
7 reliable average that we can use and that the Board relies
8 on when it makes its decisions is this 980 GWH amount.

9 So, for the Energy Access Agreement it's
10 important for you to understand, as it was for us as we
11 were discussing how to make this arrangement happen with
12 our colleagues at Nalcor -- it's important for you to
13 understand that when you're dealing with hydrology systems
14 you have to think about it in terms of averages and
15 actuals, and so that's why throughout the agreement you'll
16 see that the commitments that are given are based upon
17 averages, because we know that those are reliable
18 commitments that will be fulfilled based upon the long
19 years of data that we have about how the hydrology system
20 works.

21 Now I want to turn it over to Paul Humphries
22 from Nalcor who's going to speak to their system, and
23 you'll see the parallels. But what I would just let you
24 know as we're turning it over to Nalcor and getting Paul's
25 slide deck up is, as he will explain, it's good for Nalcor

1 when they have these peaks, because that means they have
2 lots of energy that they can export into the market, but
3 because they will become -- at the conclusion of the
4 Muskrat Falls project and the closure of their last thermal
5 plant, because they will become an all-hydrology system, if
6 they get one of these low years like this, they don't have
7 another thermal generation option to fill in the generation
8 gap.

9 They have to make sure that with their long-
10 term data, if they get one of these low years, they're
11 producing enough energy through their hydrology system to
12 serve their native load. Remember that important principle
13 that I started with for them, their native load has to be
14 served in any year. So, I won't take it any further,
15 because I'll probably step on your presentation, Paul, but
16 let me get your deck up and you can speak. And just make
17 sure that your microphone is on, Paul. Let me give
18 you -- would you like the ---

19 **MR. HUMPHRIES:** Yeah, just in case. Thanks,
20 Rene, and I'd like to say it's a pleasure to be here today.
21 I wonder do the people on the phone have the slide deck
22 yet? Because, if they don't, I'm going to have difficulty
23 trying to explain some of these slides so that they can
24 understand them. Hopefully, with the picture in front of
25 you, I can do a better job of explaining. Thank you.

1 As I introduced myself earlier, my name is
2 Paul Humphries, I'm the Vice-president of System Operations
3 and Planning with Newfoundland and Labrador Hydro. I've
4 been with the utility over 30 years and my responsibilities
5 include the operations of the Provincial Energy Control
6 Centre, generation, transmission and distribution planning
7 for both the island and Labrador systems, and my latest pet
8 project is leading the integration of the Muskrat Falls
9 Labrador Island Link and the Maritime Link, integrating
10 that into the existing Labrador Island and Maritime power
11 systems. It's quite a challenge. Looking forward to it.

12 Today what I hope to do is provide a brief
13 overview of the resource planning process in Newfoundland
14 and Labrador and explain why Nalcor is confident in its
15 ability to be able to make available to Nova Scotia on
16 average at least 1.2 terawatt hours of surplus energy per
17 year for the period between 2017 and 2041. When we look at
18 the domestic situation in Newfoundland and Labrador we have
19 a planning criteria that's been adopted by our regulator,
20 the Public Utilities Board, and we are required to verify
21 compliance with that criteria on a regular basis.

22 From the perspective -- from resource
23 planning we have two parts, we have a capacity requirement,
24 the interconnected system should have sufficient generating
25 capacity to satisfy a loss of load, LOLH expectation,

1 target of not more than 2.8 hours per year. That's
2 standard utility fare that's common to most utilities in
3 North America. From an energy perspective the
4 interconnected system should have sufficient generating
5 capability to supply all its firm energy requirements with
6 firm energy capability, and this is where we start to
7 become a little bit different.

8 Because starting in 2017 Newfoundland and
9 Labrador will be a 100 percent renewable jurisdiction,
10 which is -- we're really excited about, there will be
11 subtle differences in the way we manage our energy
12 portfolio. When we talk about the firm, firm is the
13 case -- is the system capability as defined for the lowest
14 sequence of inflows in historical record.

15 So, that means from a firm perspective we
16 have to take our hydrology sequence, our history, and based
17 on the lowest inflows in history that will determine our
18 firm system capability that will be available to serve
19 domestic load, and that is the basis of which we will plan
20 our system. We will plan based on firm.

21 So, the domestic scenario is all about firm,
22 and if we look at the picture here, this depicts -- the red
23 line at the top would be our firm capability, so that's the
24 capability that will be available from our hydroelectric
25 resource based on our most pessimistic inflow scenario.

1 And if we look at our load, if we start from the left and
2 move to the right load will increase, and as our load
3 approaches the firm limit we will be planning to add
4 additional resources to increase our firm so that we can
5 ensure that we have a firm capability to serve our load as
6 we move forward.

7 This is part of our criteria and what
8 the -- we're managed by the Public Utilities Board and we
9 will bring that data to the Public Utilities Board annually
10 and as we approach the firm we have to plan and have
11 solutions in place to meet all our load with firm
12 capability. And that would involve building new resources,
13 be it hydro or wind or what have you, to -- giving
14 our -- it will be renewable, we are a renewable
15 jurisdiction and we plan to continue to be renewable. So,
16 at the point when our firm domestic load approaches our
17 firm capability we will build.

18 So, if we want to move to the next slide, we
19 look at our -- this is our total energy picture, and above
20 and beyond the firm, because of the nature of our hydraulic
21 generation, there will be variable energy available on a
22 regular basis, it will be quite a large volume of variable
23 energy. But a couple of points to remember, is because it
24 is variable it's not part of the firm commitment and it's
25 not part of our domestic equation.

1 It is excess energy and Nalcor will be
2 managing that through market sales. So, because we are
3 renewable and everything we have is a renewable resource,
4 we cannot use this average energy like Nova Scotia would to
5 displace more expensive fuels, we don't have any more
6 expensive fuels, we're all -- we will be all hydro, so this
7 is truly a market based product and it is available for
8 sale to Nova Scotia.

9 And when we look at the quantities of this,
10 based on our over 60 years of hydrology record, we are
11 confident that we will have available on average in excess
12 of 1.2 terawatt hours per year strictly from this average
13 block. So, we are -- this is why we are confident that we
14 will be able to meet the commitment to supply the
15 requirement of 1.2 without dipping into, or having to dip
16 into, our firm product.

17 So, just to put that in perspective, if we
18 could just go to the next slide, this -- the hash mark area
19 on this slide depicts surpluses that we will have
20 available, and as it shows in the early years there's lots
21 of surplus, and we will offer to Nova Scotia up to 1.8
22 terawatt hours per year from what we have available. But
23 neglecting or ignoring the surplus firm, the area under the
24 red line, just considering the area above, we are confident
25 we will have the 1.2 from that and -- by virtue of the fact

1 that with this commitment we are committing in each and
2 every year of this agreement to offer what we have
3 available up to this 1.8 terawatt hours per year.

4 So, if there were no surplus firm available
5 at all just by virtue of the fact that we are offering the
6 1.8, we would catch enough of the peaks to ensure we cover
7 off the values so that over the time we would have 1.2
8 terawatt hours available. There will always be significant
9 blocks of energy available and we will continue to offer it
10 each and every year. I think, like to look it at from the
11 perspective -- the commitment is not the 1.2 average, we
12 are committing to offer up to 1.8 each and every year. The
13 1.2 average is going to fall out because of that. It's
14 there, it will happen and we are confident that it will
15 happen.

16 So, just I guess in conclusion, while the
17 energy is variable it is predictable and we do have 60
18 years of record that gives us the confidence that it will
19 be available and we are very confident that, as I said, the
20 1.2 will be available, and together, I guess, Emera and us
21 have committed to do that. But we see there should be no
22 situation where we should not be able to deliver, and even
23 though we are committing with back stops and all those
24 types of things, I never see -- I do not see a situation
25 where we will get into having to invoke those back stops.

1 So, that's my presentation for today. Thank you.

2 **THE CHAIR:** Thanks, Paul. Thanks, Ben, for
3 putting me back on. So, thanks for that explanation of the
4 hydrology. And as I said at the beginning, we felt it was
5 really important that folks understand this but the reality
6 is that there's now a contract in place that, regardless of
7 this information, places the obligation on Nalcor and Emera
8 to ensure that that energy is made available to Nova Scotia
9 Power customers at a market price over the term of the
10 agreement.

11 So, that information helps you understand
12 why we have the confidence to make those commitments, but
13 the commitments are there and Nova Scotia Power customers
14 will rely on them no doubt. So, here we go to the Energy
15 Access Agreement. I will try to walk you through the key
16 points. I know, especially with the lawyers in the room,
17 that there'll be questions about the details.

18 I'm not going to try to go through it line-
19 by-line or even paragraph-by-paragraph but just to try to
20 help you understand the framework of the agreement that's
21 going to generate this availability that replies to the
22 Board's condition. And what I've tried to do is just
23 highlight the key points and refer you to the paragraph
24 that delivers that commitment. Of course, there are other
25 relevant provisions, as any contract would have them, in

1 other parts of the contract.

2 The first is that Nalcor is going to
3 deliver, are committed to deliver, a monthly forecast of
4 available energy up to 1.8 terawatt hours through the term.
5 It will forecast 24 months ahead so we can see what's
6 coming. And by "available energy" the agreement explains,
7 describes, commits that available energy is simply the
8 difference between Nalcor's native generation and Nalcor's
9 native load.

10 And so if you had gone back to Paul, if we
11 could -- we won't, but if we could go back to Paul's slide,
12 because I -- it's two different charts, two different
13 presentations -- if we went back to that slide, it would be
14 all that cross-hatched area in any given year. So, that's
15 in paragraph 4A of the agreement.

16 That monthly forecast will give Nova Scotia
17 Power information about this potential supply of energy
18 that it wouldn't normally have from a supplier, which is
19 the supplier's expectation of what's available in peak and
20 off-peak increments. And Nova Scotia Power has committed
21 to issuing a competitive solicitation at least once
22 annually, which will happen in June, for a contract for
23 delivery of imported energy that will begin on September
24 1st for a year from that September 1st to August 31st, and
25 this will happen every year.

1 And we do it in this way for a couple of
2 reasons. One is that at the end of May Nalcor has the best
3 picture of what it forecasts its hydro generation to be at
4 that time. With the spring runoff having happened, the
5 precipitation over the course of the winter and in the
6 early spring, that forecast is the best one to know what
7 might be coming in the upcoming year in terms of available
8 energy and so Nova Scotia Power will have that information.
9 (TECHNICAL DIFFICULTY WITH MICROPHONE)

10 So, where was I? NS Power competitive
11 solicitations. So, Nova Scotia Power then will issue a
12 competitive solicitation. It's completely free to ask for
13 the market to provide whatever volume of energy in whatever
14 shape and manner it wishes. There are no restrictions on
15 Nova Scotia Power, other than we do have some timing
16 requirements in the agreement for the process. So, if the
17 company calls for the amount that Nalcor has forecast as
18 available, then Nalcor must bid that exact amount.

19 If Nova Scotia Power calls for less because
20 it sees a year where it doesn't need as much energy
21 imported for whatever reason, then Nalcor must bid the
22 amount that NSP calls for because it's less than the
23 forecast. So, for example, it may have said, "We have 1.7
24 terawatt hours available," Nova Scotia Power calls for 1.5,
25 Nalcor must bid 1.5 into that competitive solicitation. If

1 Nalcor says, "We've got 1.3 available this year" and Nova
2 Scotia Power calls for 1.5 because they want more than
3 that, then Nalcor must bid at least 1.3, because that's
4 what their forecast was.

5 That's their contractual commitment, to bid
6 what they forecast if Nova Scotia Power wants at least that
7 much. There's no restriction on Nalcor contractually from
8 bidding more than what their forecast was if they have it.
9 So, for example, if they said 1.8 and Nova Scotia Power
10 says, "We need 2 this year," they have to bid at least 1.8,
11 but they could bid 2, and there's no requirement that Nova
12 Scotia Power match to what they've forecasted. So, there's
13 complete flexibility in Nova Scotia Power to call for what
14 is needed.

15 The other important thing to know is
16 although this is one annual solicitation a year calling for
17 energy to be imported for an entire year, it is completely
18 open to Nova Scotia Power to have additional solicitations
19 and other commercial arrangements arise during the course
20 of the year, as they do today. So, they could, for
21 example, put a bid out and not get enough energy because
22 they needed more than Nalcor forecasted or because the
23 price didn't work for Nova Scotia Power at the time. They
24 can keep going back to the market.

25 There's no obligation on Nalcor after this

1 one bid to contractually bid into that, but both parties
2 have the flexibility to operate like a normal commercial
3 counter party would. So, essentially the market gets
4 created by the annual solicitation and after that the
5 parties are free to enter into commercial arrangements as
6 you normally would in a market.

7 So, the next important point to understand
8 is the maximum bid price in paragraph 4C. For all of you
9 who were involved in the hearing, you will know that we
10 modelled taking this imported economy energy, the surplus
11 energy, at a mass hub flat price, no reflection of tariffs
12 one way or the other. We did that to be conservative, to
13 try to understand what the value might be to Nova Scotians
14 of getting economy energy once the Maritime Link was in
15 place.

16 Nova Scotia Power and Emera believe energy
17 will be available at lower than that price but that's what
18 our modelling showed, and so the result of the discussions
19 in the agreement is that Nalcor has agreed that it will
20 have a maximum bid price. So, if the market were to change
21 and a condition would arise that would normally have
22 allowed it to bid more than the mass hub price, it has
23 committed it will only bid the mass hub price flat.

24 And if that were to happen and the energy
25 was made available and mass hub was bid every single time,

1 we would deliver the value reflected for Nova Scotia Power
2 customers by Figure 4-4 because that was what was modelled.
3 There's one exception to the maximum price -- it's actually
4 an alternative maximum price -- and that is if there's a
5 different market that Nalcor has available to it with a
6 customer and a path to that customer at a higher price
7 deducting net back.

8 If all of that arises, if there is another
9 customer that they could get a higher price from and they
10 can demonstrate that to Nova Scotia Power, we still have
11 the ability to take energy at that price. The way I think
12 about it -- even if it's higher than mass hub. So, even if
13 it's higher than mass hub, it might still be economically
14 beneficial for customers to have energy at that slightly
15 higher price, but the way I think about it is there was a
16 lot of debate during the hearing about should there be a
17 right of first refusal, a ROFR, something like that, where
18 we can have the first shot at all the energy.

19 And we were saying we will have the first
20 shot at all the energy, it has to go right through, we're
21 going to get the first shot. Well, now we have a
22 commercial commitment that's a lot like that, where if that
23 energy is available and it could have been sold to another
24 customer, it's bid in at the price that other customer is
25 going to pay, we can put up our hand and say, as a result

1 of the competitive solicitation, "We're going to take that
2 energy at that price." And so that's the maximum bids.

3 And this is a component that, in our view,
4 was not a requirement to meet the condition but we believe
5 delivers value to Nova Scotia customers and is in
6 accordance with Nalcor's desire to maximize the value of
7 their export sales. There's another component which we
8 think is different from what we would have had if the
9 market had just operated as we were predicting it would
10 that we can deliver added value to the parties, and that's
11 the idea that the interrupted energy could be re-delivered.

12 So, it's in paragraph 4D, and this principle
13 is that once the bid has been issued and Nova Scotia Power
14 and Nalcor enter into a contract for a volume of energy for
15 that contract year, Nova Scotia Power takes that energy on
16 a non-firm basis. This is economy energy, it can be
17 interrupted. And with any supplier that's delivering you
18 non-firm energy you might not get it for reasons such as
19 hydrology, it doesn't show up, for reasons like there's a
20 constraint on a system and it can't be delivered and that
21 kind of thing.

22 So, if the energy delivery is interrupted,
23 it's been contracted for but it can't be delivered in the
24 moment that we were expecting it, Nalcor has an obligation,
25 a commitment, to re-deliver it in quantities with an

1 economically equivalent value. And so that might mean it's
2 a different volume of energy at a different time of day or
3 at a different price, but it would be economically
4 equivalent to the energy that got interrupted.

5 Those of you who are regular participants in
6 Nova Scotia Power's proceedings, whether it's rates cases
7 or establishment of economic tariffs or those kinds of
8 things, will know from hearing Mr. Sidebottom explain it in
9 various proceedings that this is a calculation that we can
10 do and we do regularly out of our control centre dispatch
11 operations in terms of understanding what is the value of
12 the energy we were going to use -- we have to do that to
13 figure out what's the best unit to dispatch or what's the
14 best energy to use at any given moment -- we can figure out
15 that value and we can also figure out what value will be
16 obtained if we get a certain volume delivered at a later
17 time. And so in most commercial import relationships
18 there's would be no re-delivery obligation, if non-firm
19 energy is interrupted the opportunity to have it is gone.

20 So, all of this will happen, the forecast,
21 the competitive solicitation, the bid, the contract. And
22 as you've heard from Paul, the result of making available
23 up to 1.8 terawatt hours of available energy on an annual
24 basis is a 1.2 terawatt hour commitment on average, because
25 of the sinusoidal curve it might be that in any given year

1 but it will be that on average, in fact, likely more.

2 So, how will we know? Firstly, I should
3 probably pause on that. This is for us the critical
4 commitment in the agreement, that there will be 1.2
5 terawatt hour on average delivered to Nova Scotia. We
6 believe that that meets -- we are confident that it will be
7 there and that meets the URB's condition in terms of being
8 consistent with Figure 4-4, as it was revised under the low
9 load forecast in Undertaking U-3.

10 So, how will we know that that's happening?
11 Well, Nalcor is going to deliver progress reports on the
12 achievement of that commitment under paragraph 7A, so we
13 will have an advanced notice on a regular basis of how
14 we're doing meeting that commitment and that report must be
15 satisfactory to Nova Scotia Power and Emera. We can
16 challenge it if we don't believe the science is good or if
17 assumptions have been made or if, God forbid, errors in
18 calculation, simple errors may have been made.

19 We can challenge that and it has to be
20 acceptable, and there is a dispute resolution process if
21 it's not. But at the end of the day we will know by those
22 progress reports whether 1.2 on average over the term is
23 going to be met. So, we want you to know we firmly believe
24 it will be met. We are very confident it will be met.
25 But, of course, it's a contract and it's a negotiation and

1 it's important that we're protecting the interests of Nova
2 Scotia Power customers, just as Nalcor is protecting the
3 interests of their customers.

4 So, we had to make sure that we were in a
5 solid position on the "what if". What if it's not 1.2?
6 What if one of those progress reports says, "It looks like
7 we're only going to be able to get 1.1 or 1.0 on average
8 over the term?" And so the contract, in Part 7, provides
9 for the response to that scenario. First of all, we'll
10 make sure that that's indeed an accurate progress update.

11 We've challenged the science of it, the
12 data, the calculation, and it does look like, in an
13 unlikely scenario, something has happened that means it
14 won't be met. In that case, firstly, I remind you of what
15 Paul explained. Nalcor has an obligation as its load grows
16 and comes closer and closer to its firm energy delivery to
17 add new capacity, new generation, to make sure that it has
18 a buffer and it can always meet its firm load.

19 From Emera and Nova Scotia Power's point of
20 view that will mean that the 1.2 is going to get met. But
21 let's assume that it's still not enough. Emera and Nalcor
22 will sit together -- there's a time limit on how long that
23 they can have to work together -- and see if they can work
24 together as partners, as we have been doing on every stage
25 of this project, whether it's the original construction,

1 the development of the cost calculations, the construction
2 of the projects, the negotiation of this agreement -- we
3 will work together and try to find a solution, because we
4 are both, frankly, on the hook to make sure the energy gets
5 delivered. Sorry, make sure the energy is available.
6 After the contract is signed it will be up to Nova Scotia
7 Power to make sure the energy that's signed up for gets
8 delivered.

9 So, we both have an interest to make sure
10 that that energy is available to Nova Scotia Power and its
11 customers, and that working together period is not just
12 understanding the nature of the problem and the extent of
13 it, but it's also to make sure at that time, whenever it
14 happens, would it be the right thing, for example, to
15 collaborate and cooperate and build a new wind farm in
16 Newfoundland?

17 That would be all we would need, that would
18 do it, and we could do that together. That might be the
19 solution and we'd both meet our commitment that way. We
20 don't know. We can't predict the future, so instead we
21 said, first -- I guess, the second step is we're going to
22 put our heads together and try to solve this together like
23 the partners that are today. So, you'll have seen that in
24 the agreement.

25 At the end of the day if in that time period

1 a solution is not apparent that we can both agree on,
2 acting independently in our own interest on behalf of our
3 own customers, then Emera has a commitment to deliver 25
4 percent of that 1.2 terawatt hours and Nalcor will be
5 committed to deliver -- to make available the rest. Emera
6 is not -- we don't have vast stores of hydro or renewable
7 energy. We will have to determine the best way to make
8 energy available to bid into those NSP solicitations, and
9 we've said we can do that up to 300 GWH.

10 One of the ways we might do it, which is
11 anticipated in the agreement, is through intermittent
12 generation like wind or tidal, depending on when this
13 happens and the state of technology at the time. And
14 because we have the Maritime Link in place we can use the
15 Maritime Link capacity to balance the intermittent nature
16 of new wind generation, because the Maritime Link is not
17 being used to make available surplus energy to the market,
18 that means it has capacity to provide balancing services.

19 And so we have a contractual commitment from
20 Nalcor to provide those balancing services if Emera
21 constructed wind in Nova Scotia as the right solution to
22 ensure the availability of market priced energy to Nova
23 Scotia up to 300 GWH. And so that's the reasons for those
24 provisions being in the agreement.

25 I've been asked why does Nova Scotia Power

1 have the first option to build that wind, and what we were
2 trying to do was ensure that the best of interests of Nova
3 Scotia Power customer were being met. We don't
4 know -- well, first of all, we don't think this is going to
5 happen because we think there's going to be enough surplus
6 energy from Nalcor, but we don't know when it might happen,
7 what the conditions of the market might be at the time.

8 It may actually be better for Nova Scotia
9 Power to deliver the solution itself because the self-
10 generation, construction and delivery costs are lower than
11 the cost of market priced energy at that time. If that
12 were the case, then Nova Scotia Power has the option to do
13 that, and it would do that by going back before the UARB
14 and explaining, "This is a better solution than anything
15 else we could come up with, it's better for customers."

16 And they would need UARB approval to do
17 that, of course. But if that's not the best solution for
18 customers, then Nova Scotia Power won't take it and it'll
19 be up to Emera to take the responsibility to make 300 GWH a
20 year available -- up to 300 GWH available to those
21 competitive solicitations, at a market price even if there
22 would be what is otherwise considered to be a loss on
23 that -- on the 300 GWH.

24 All we were trying to do with this provision
25 is make sure that it's using NSPI as its own generation is

1 the best answer, that we hadn't eliminated that
2 possibility; in fact, that should be the first thing we
3 should look to. It's usually in the best interests of
4 customers to do that, and if not, then Emera will step up.

5 And I would say, to answer another question
6 I've had, it seems perfectly reasonable that if Emera has
7 that obligation, and IPP wants to provide market-priced
8 energy in those volumes, that the IPP be competing and win
9 those bids, and deliver that energy, so we have no
10 objection to independent power producers being involved in
11 these competitive solicitations.

12 Indeed, there are going to be competitive
13 solicitations to the market, and so there's no reason why
14 we couldn't receive bids from lots of entities throughout
15 the whole course of the term of the Agreement. It's
16 market-priced energy, and when the Maritime Link is
17 constructed, there will a market created whereby lots of
18 players will want to bid into the market.

19 I've walked through the key commitments that
20 Nova Scotia Power customers now have on which they can rely
21 in the Energy Access Agreement. I also wanted to say that
22 there's another provision I don't have on the screen which
23 is that this is a binding contract. I should probably find
24 it. I think it's Paragraph 2; 2(a) speaks of forming a
25 definitive agreement.

1 This is a binding contract, but the parties
2 have agreed there are some additional provisions which
3 still need to be worked out -- what are the details of the
4 audit rights, things like that, force majeure, all of those
5 technical legal provisions which are important, but which
6 we didn't want to slow down the process of review by trying
7 to work out a formal agreement.

8 You'll remember that the term sheet for the
9 original Agreements was about 18 months before the formal
10 Agreements were finally completed, and, so, when we had
11 this Agreement done, we said, "Okay, it's a binding
12 contract; they can sue or be sued under it", so that's
13 adequate to comply with the conditions.

14 We will try to negotiate a formal agreement.
15 There's a deadline for it -- October of 2014. If we don't
16 resolve specific issues, there's a dispute resolution
17 process, so they will get resolved. There's no hanging out
18 there.

19 But, in the interim, once the Board approves
20 this as a compliant contract with the condition as a
21 reasonable commercial arrangement, then it will be a
22 binding relationship between Nalcor, and Emera, and Nova
23 Scotia Power.

24 So our view is that the Energy Access
25 Agreement that you have before you meets the URB condition

1 for market-priced energy, and I think if we were to hit the
2 slide one more time, we'd be at questions and answers.

3 So I'll just give you a few seconds to
4 gather your thoughts. We have folks on the phone, and I'm
5 just going to leave you on mute for a few more minutes
6 while we let some of the room questions come out, but I
7 will break in, in a few minutes and let folks on the phone
8 have questions, too.

9 Oh, yes, thank you. Thank you, Rick. Rick
10 reminded me of something which -- can you go back a slide,
11 Shelley? Yeah, I forget to highlight this, and I should
12 have done it. I apologize, but -- do you have the pointer?

13 So for folks on the phone, I'm on -- back on
14 the slide that says "Energy Access Agreement" with all the
15 commercial commitments made, and you'll see that each one
16 I've identified, that this first commitment, "Deliver the
17 monthly forecast", is throughout the term. The second
18 commitment of "Solicitations" is throughout the term. The
19 "Bidding" is throughout the term. All of these things
20 happen throughout the term. Whoops.

21 And, so, what we're trying to emphasize here
22 is that there is a commitment to meet an average of
23 1.2-terawatt hours in each year. If you do the math, if
24 you get 1.8 available every year for the beginning part of
25 the term, then, in theory, you hit the 1.2-terawatts hours

1 before year 2041. And, you know, it may be a number of
2 years early if that were theoretically to happen, but the
3 commitments continue even if that were to happen.

4 The 1.8-terawatt hour forecast and bid
5 commitment is in every year of the term, regardless of when
6 the 1.2 average commitment is met. And, so, if it's met
7 early, that means that all the rest of those years are
8 going to add additional energy into the equation for Nova
9 Scotia Power customers, and in fact, increase the value of
10 the commitment beyond what is represented by Undertaking 3,
11 and Figure 4-4.

12 So this commitment, and as Paul described,
13 and you saw the chart, that the average hydrology data
14 would suggest that, in every year, there will some energy,
15 and in many years it will be more than the average, and
16 some years it'll be closer to the average, but there will
17 be energy that will be forecast and bid, and we would
18 expect that to be in every year no matter when the 1.2 is
19 met.

20 Is that the point? Yeah. Sorry I forgot
21 that one. It's an important point to all of us.

22 Okay. Now we're at questions.

23 **MR. MAHODY:** Rene, it's Bill Mahody. Just a
24 couple questions about the competitive solicitation that
25 you were referring to. First off, that annual

1 solicitation, it's at the option of Nova Scotia Power?

2 You're not obligated to issue an annual solicitation, are
3 you?

4 **THE CHAIR:** Mark?

5 **MR. SIDEBOTTOM:** That is correct. It will
6 be our option.

7 **MR. MAHODY:** And, Mark, in the years in
8 which Nova Scotia Power does decide to issue that
9 solicitation, that would be a 12-month solicitation for
10 power -- for energy in both peak and off-peak basis?

11 **MR. SIDEBOTTOM:** Yes, it would. Yes.

12 **MR. MAHODY:** Okay. And it's done on a term
13 of a -- on a per-month basis?

14 **MR. SIDEBOTTOM:** We would see looking for
15 energy both on- and off-peak by month, and that would be
16 classically how we'd look at it.

17 **MR. MAHODY:** And in the response that you
18 would receive back from Nalcor, would you be able to select
19 energy -- receiving energy in certain months but not in
20 others?

21 **MR. SIDEBOTTOM:** Yes, we'd have the freedom
22 to select amongst all of the bidders, frankly, into that
23 solicitation, including Nalcor.

24 **THE CHAIR:** Thanks for those questions,
25 Bill. I know you're going to have more. I'll go back to

1 the crowd. I just -- I wanted to point out something that
2 maybe I should have mentioned, which is I've been asked why
3 is it -- why is there an annual solicitation for what could
4 be a large amount of energy?

5 You've heard from Mark how it's going to be
6 done. It'll be done on that basis with monthly peaks and
7 non-peaks, and some months with -- there may be no energy,
8 and other months there'll be lots of energy asked for.

9 Nalcor, if it forecasts and is willing to
10 bid 1.8 available, Nova Scotia Power might say, "Well, we
11 need 1.2 this year. We don't need 1.8", Nalcor has the
12 freedom, at that point, to take the .6 difference and find
13 other customers for it. So that's commercially reasonable;
14 that it was available to Nova Scotia Power, it didn't want
15 it all, Nalcor has to have the ability to maximize their
16 export sales, and so that extra 600 is now available to
17 them to market elsewhere.

18 And it might actually be to market to Nova
19 Scotia Power in a subsequent competitive solicitation that
20 comes later if Nova Scotia Power changes its mind, and
21 wants more energy for whatever reason during the course of
22 that year.

23 So Nalcor can't be, I think, reasonably --
24 hopefully everyone would agree -- they can't be completely
25 constrained from their own commercial activities. What

1 they've said is, "We will constrain ourselves up to
2 1.8-terawatt hours, if that's what you need, but if you
3 don't need that much, we'll constrain ourselves to how much
4 you need, and above that, then, we have the flexibility to
5 market it elsewhere."

6 **MR. SIDEBOTTOM:** And maybe, Bill, just to
7 further clarify, it doesn't specifically limit us to the
8 construct I've just described, as well, from the standpoint
9 of peak and off-peak by month. That's just how we'd see
10 doing it at this moment in time. We could construct a
11 different way, by quarter, or we're free to do that in the
12 future, as well.

13 **MR. MAHODY:** Yeah.

14 **THE CHAIR:** Other questions? Bruce?

15 **MR. OUTHOUSE:** Rene, Bruce Outhouse. With
16 respect to the alternative spot market opportunity, the
17 exception to the maximum bid at Mass hub ---

18 **THE CHAIR:** Yes?

19 **MR. OUTHOUSE:** --- and I know I heard you
20 say that if Nalcor had that opportunity, and was able to
21 identify it in accordance with (c)(ii), that it might be in
22 NSPI's interest to buy it at that price, correct?

23 **THE CHAIR:** Yes.

24 **MR. OUTHOUSE:** It would, in effect, as you
25 say, create some sort of right of first refusal at the bid

1 stage, correct?

2 **THE CHAIR:** Yeah. Yes.

3 **MR. OUTHOUSE:** There's reference in (ii) to
4 demonstrate a liquid trading node, and I guess my
5 understanding of the evidence from the Hearing was one of
6 the possibilities that would create this higher price is
7 that the Nalcor energy would be being sold because it was
8 green energy at a premium price to brown energy, as I'm
9 sure you heard that evidence.

10 **THE CHAIR:** Yes.

11 **MR. OUTHOUSE:** If that were to be the case,
12 and that's what justified this -- that's what characterized
13 this alternate opportunity, does that mean that unless NSPI
14 had put value on that green energy, could it buy brown
15 energy through that same trading node if Nalcor was
16 shipping green energy somewhere else? Maybe that's not a
17 question for you, but a question for somebody on your side.

18 **THE CHAIR:** That -- I just might be confused
19 by the question, itself. Mark, you look as puzzled as I
20 feel.

21 **MR. SIDEBOTTOM:** So, Bruce, I think you're
22 asking the question if the market was a green product, and
23 would that be a legitimate price; if it was a liquid
24 product, would that be -- would that count for this
25 premium?

1 **MR. OUTHOUSE:** I wasn't so much interested
2 in the premium, Mark, as if the product is trading above
3 Mass hub, there's an explanation for it; probably the one
4 that has been -- was postulated at the Hearing which was
5 that it's green energy, and we'll get a premium price.

6 My understanding of the evidence at the
7 Hearing, and perhaps I misunderstood it, was if that were
8 happening, NSPI would have the ability because those green
9 electrons notionally were passing by our doorstep to access
10 the Mass hub for brown energy.

11 **MR. SIDEBOTTOM:** I see. Yes, now I
12 understand your question, Bruce. So if there was an
13 alternate market that was a premium price driven by a green
14 attribute, and it wasn't economic for Nova Scotia at the
15 time, that means it's flowing past our doorstep, and then
16 that would give us better access to a non-green megawatt
17 flowing in the opposing direction; say, taking something
18 from New England. So that's true.

19 **THE CHAIR:** Nancy?

20 **MS. RUBIN:** Just a couple of follow-up
21 questions. Going back to the competitive solicitation,
22 what is Nova Scotia Power's current practice in terms of
23 solicitations now, its timing, and its bid quantities?

24 **MR. SIDEBOTTOM:** As this is a
25 non-confidential forum, I'll try to stay as helpful, but

1 not so specific.

2 We'll go out, in timeframes, anything from
3 two hours ahead out to one month ahead, and in fact, we're
4 looking seasons ahead now, and so that's what's driving
5 most of our solicitation timing at this point, Nancy. And
6 we'll do all form of construct from all hours of the day to
7 peak-only project -- products, and so there's quite a
8 variety of products we'll ask for in the market.

9 **MS. RUBIN:** Okay. Does NSPI see that being
10 compelled to do a one-year-ahead solicitation in a window
11 of time from May 31st to June 31st(sic) ties its hands in
12 any way to layer in its portfolio of energy purchases?

13 **MR. SIDEBOTTOM:** No, I don't.

14 **MS. RUBIN:** Why not?

15 **MR. SIDEBOTTOM:** Well, if you take a look at
16 what we do today, we would actually layer in, in some
17 cases, parts of our energy portfolio as far out as four
18 years for some of our products. Buying something like
19 electricity is something you can then optimize, buy and
20 sell more, as the year goes on.

21 So you could make your very best decision at
22 that point in time, and then as things like load change,
23 you can either buy more if there's more load, or sell some
24 if the load declines at that point. So it's quite a
25 flexible arrangement to my mind.

1 **MS. RUBIN:** So, just as I understand it,
2 Nalcor will provide you a rolling 24-month-ahead forecast,
3 correct?

4 **MR. SIDEBOTTOM:** That's right, Nancy.

5 **MS. RUBIN:** After the May 20 -- May 31st
6 forecast is provided, you've got a month to issue a
7 solicitation?

8 **MR. SIDEBOTTOM:** That's right.

9 **MS. RUBIN:** Okay. So you make that
10 solicitation, and it has to be for the one year ahead?

11 **MR. SIDEBOTTOM:** It doesn't have to be, but
12 we will use all our market information at the time to
13 determine exactly what we'd like to do. The one year ahead
14 expresses the commitment that Nalcor has to bid into that
15 process.

16 Just to draw an example, if we wanted to go
17 out for two years, the obligation for Nalcor would be for
18 one year of that energy. If we wanted to go out for six
19 months, it would be the proportionate share of their
20 forecast associated with the six months.

21 So we've got the flexibility to design it at
22 that point in time, as we saw the availability of energy
23 coming up to that year.

24 **MS. RUBIN:** Sorry. Just to be clear, if you
25 can clarify, this solicitation -- Clause 5(a) says that:

1 "Not later than 30 days after receipt
2 of the May 31st Nalcor forecast, NSPI
3 may issue a competitive market
4 solicitation for supply of energy for
5 the coming contract year."

6 And then Nalcor's only obliged to bid if
7 it's in accordance with the Agreement, so if it is a
8 solicitation for the supply of energy for the coming
9 contract year. Is that right?

10 **MR. SIDEBOTTOM:** Well, actually, it captures
11 more of a -- more than that concept. It's a non-firm
12 product energy, so, of course, if we're looking for a firm
13 product, that's a different product, and it is inside that
14 contract year. So we're not compelled to match it
15 perfectly to 12 months. We have, also, the ability to
16 choose the amount by month.

17 So if you take the concept of it needs to be
18 a 12-month solicitation, some of those months could be zero
19 under the concept. So it's not an intent to box either
20 organization in; it's the opportunity for the two
21 counterparties, one, to offer what they have for the next
22 12 months, and the other to choose amongst the offerings of
23 energy for the next 12 months. And that's the intent of
24 that clause.

25 **MS. RUBIN:** But, just to be clear, it's for

1 the coming 12 months?

2 **MR. SIDEBOTTOM:** That's right.

3 **MS. RUBIN:** Okay.

4 **MR. SIDEBOTTOM:** Yes.

5 **MS. RUBIN:** So, then, NSPI puts out its
6 solicitation for the next 12 months, and as you said to
7 Bill earlier, you specify on-peak, off-peak, and what you
8 need by month, or would you just say, "We need X-amount of
9 energy for the entire year"?

10 **MR. SIDEBOTTOM:** I think we'd need to
11 specify the peak and non-peak, at least, and the profile by
12 month, at least. It sounds like my mike just died. Has it
13 died?

14 **THE CHAIR:** No, it's still on.

15 **MR. SIDEBOTTOM:** No? Okay. Because the way
16 the forecast is presented to us from Nalcor, it is in the
17 peak and off-peak by month, so to have a resolution of more
18 than a month, at least, to characterize the RFP wouldn't be
19 helpful. You -- if -- I don't know if I confused you on
20 that, or helped.

21 **MS. RUBIN:** No, no, that's fine. I just
22 want to understand the process here. So let's say, then --
23 so Nalcor, then, has 30 days to respond?

24 **MR. SIDEBOTTOM:** Yes, as do all the parties
25 that would bid into the process.

1 **MS. RUBIN:** Okay. And let's say NSPI has
2 put its forward schedule for the year, and it comes out to
3 1.2, and Nalcor offers up 1.2, and NSPI then has the
4 opportunity to accept or reject that bid, right?

5 **MR. SIDEBOTTOM:** That's right, or components
6 thereof, yes.

7 **MS. RUBIN:** Okay. So, whether or not NSPI
8 accepts it, that counts as Nalcor's commitment? It
9 satisfies its commitment if it bids 1.2 -- that satisfies
10 it, regardless if NSPI accepts Point A?

11 **MR. SIDEBOTTOM:** Oh, yes, absolutely,
12 because remember ---

13 **MS. RUBIN:** Okay.

14 **MR. SIDEBOTTOM:** --- our acceptance is based
15 on it being economic for Nova Scotia customers, so ---

16 **MS. RUBIN:** Right.

17 **MR. SIDEBOTTOM:** --- if market-priced energy
18 at that moment in time is not the right answer for Nova
19 Scotia customers, we wanted the freedom to ensure that we
20 could choose another option.

21 **MS. RUBIN:** Okay. So, then, the bid and the
22 sale price is accepted, but the sale price that's accepted
23 may not necessarily be the price in any given month. Is
24 that correct? Or how does Clause (d), or Clause 4(c) work
25 where it says:

1 "The sale price at the delivery point
2 shall not exceed the greater of the
3 hourly day-ahead price, or any
4 alternative spot market opportunities
5 which are available at any time within
6 one year following the Nalcor bid."

7 How does that pricing mechanism work?

8 **MR. SIDEBOTTOM:** So the concept of the bid
9 is that you need to understand how it's going to be priced.
10 And, so, the first component would be there'd be some
11 liquid market -- let's say it was Mass hub -- you might get
12 a bid from Nalcor that says it's Mass hub, and it could be
13 minus two dollars (-\$2), or as an example for a settlement
14 of on-peak for a particular month, and that price is an
15 index price to a liquid hub.

16 We would use that information to determine
17 if that was an economic choice for Nova Scotia in the
18 future. We could choose, then, actually, to hedge that, or
19 actually wait for expiry, and that will be based on a hedge
20 program, as well.

21 The second component, in the bidding
22 process, Nalcor would have to provide the line of sight as
23 to the alternate market; in other words, could they get to
24 that market? Is there a legitimate pass to that market?
25 What is the pricing of that market? And that has to be

1 associated with any netback of incremental transmission
2 associated with getting to that market, as well. There is
3 a clause on some transmission to deal with that, as well.

4 Again, most likely what we'll see is an
5 indexed priced bid on markets that then would need to be
6 hedged, and it's the premium or discount to that market
7 which then ultimately helps us understand the economics.

8 **MS. RUBIN:** I'm not sure I understand about
9 the spot market opportunities at any time within one year
10 following the Nalcor bid.

11 So let's say in September there is an
12 alternative spot market opportunity available which is
13 higher than the hourly day-ahead price against which their
14 bid was accepted at the time as compared to other
15 alternatives. Does NSPI pay the higher price?

16 **MR. SIDEBOTTOM:** At the time of the bid,
17 Nalcor has to identify the alternate market that has a spot
18 premium to it, so they would have to show us that alternate
19 when they actually bid into the solicitation, Nancy. And,
20 so, there'd also be a path identified at that point so that
21 we could then legitimately say there is a real alternate
22 premium market that would allow them to price that energy
23 at something different than Mass hub.

24 **MS. RUBIN:** So at the time of -- sorry to be
25 a little slow on this, but at the time that Nalcor bids,

1 and the bid is accepted, will you know what the price will
2 be going forward, or the reference point, or is it subject
3 to change if there are spot market opportunities that
4 become available as the year progresses?

5 **THE CHAIR:** It's at time of the bid, Nancy.
6 The spot market opportunity has to be available at the time
7 of the bid, so they will bid -- so it may be an indexed
8 spot market price. They'll have to tell us what it is, so
9 we won't -- we might not know the actual price when we get
10 there, but we'll know ---

11 **MS. RUBIN:** Okay.

12 **THE CHAIR:** --- what the alternative is.

13 **MS. RUBIN:** Okay.

14 **THE CHAIR:** And they'll have to demonstrate
15 to us that they actually have that market opportunity, and
16 a path to it, and the price, or the ---

17 **MS. RUBIN:** When ---

18 **THE CHAIR:** --- bid presumably would have to
19 be ---

20 **MS. RUBIN:** Sorry. When you say "us", do
21 you mean NSPI?

22 **THE CHAIR:** Yeah.

23 **MS. RUBIN:** Okay. So ---

24 **THE CHAIR:** I didn't leave that long ago.

25 **MS. RUBIN:** Pardon?

1 **THE CHAIR:** I didn't leave NSPI that long
2 ago.

3 **MS. RUBIN:** No, I know, and that's -- I'm --
4 sometimes I'm having difficulty figuring out who's NSPML,
5 and who's NSPI, because ---

6 **THE CHAIR:** I'll try to be more ---

7 **MS. RUBIN:** So, then, we're operating under
8 this Agreement that's been entered into, and Clause (d)
9 says that Nalcor can shift around the deliveries?

10 **MR. SIDEBOTTOM:** That's right. They can
11 "interrupt and re-deliver" I think are the words that are
12 used in the clause, and so if they choose to, at their
13 discretion, not to deliver the non-firm energy, another
14 obligation steps in which is if that is removed from this
15 -- the agreed-to energy, there's an equivalent value that
16 has to be made up to Nova Scotia Power.

17 **MS. RUBIN:** And is it the equivalent to what
18 the energy would have been priced at the time of delivery
19 that then got shifted, or is it priced on the basis of the
20 NSPI replacement energy that it will have to secure?

21 **MR. SIDEBOTTOM:** It's more like the
22 replacement -- it is replacement energy or equivalent cost
23 of losing that energy at that moment in time. So ---

24 **MS. RUBIN:** So if NSPI doesn't get energy
25 delivered from Nalcor, and has to go out and secure

1 additional energy in the market elsewhere, and that
2 replacement energy is higher, then Nalcor has to replace it
3 at the value of that higher cost replacement energy?

4 **MR. SIDEBOTTOM:** That's right.

5 **MS. RUBIN:** Okay. And the last part of that
6 clause on Page 6 says that:

7 "The NSPI solicitation contract term
8 will be extended accordingly if
9 necessary."

10 How does that extension work?

11 **MR. SIDEBOTTOM:** We haven't actually set out
12 the details of how the extension would occur, Nancy.
13 That's the details which we would have to negotiate as we
14 get to definitive agreements. The concept that we want is
15 to ensure that the value is brought back to Nova Scotia if
16 Nalcor wants to interrupt the scheduled energy.

17 **THE CHAIR:** But I think we can be a little
18 more specific than that. It's quite true we may have some
19 work to do on -- in the -- when we get to the final
20 agreement, but if you look at the language; so, they can
21 interrupt and no later than 365 days following that date,
22 they have to deliver volumes in an equivalent economic
23 energy. So that's the extension.

24 So let's say they do it six months into the
25 one-year contract then they will have another year to

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64

1 re-deliver the energy which would make that contract term
2 for that one purpose essentially 18 months instead of a
3 year.

4 **MS. RUBIN:** I think I'll just let somebody
5 else take the next round of questions. Thanks.

6 **THE CHAIR:** Okay. And just for warning,
7 we're going to have Don Regan ask a question, or however
8 many you've got ---

9 **MR. REGAN:** Sure.

10 **THE CHAIR:** --- and then we're going to go
11 to the phone so people on the phone have a chance. Don?

12 **MR. REGAN:** Thank you, Rene. Given that you
13 have no obligation to issue the solicitation, can you tell
14 us in what circumstances you would do that?

15 **THE CHAIR:** What's -- you would issue a
16 solicitation, or you would not?

17 **MR. REGAN:** I guess either would be
18 instructive.

19 **THE CHAIR:** Okay.

20 **MR. SIDEBOTTOM:** As you're asking the
21 question of, you know, why wouldn't we, I think it would be
22 only under circumstances where we saw a clear line of sight
23 that it would be cheaper under other generation resource
24 options. But I think it would be a rare occasion, to be
25 honest, because we don't actually have an obligation to

1 take the energy. So testing the market for the right
2 answer for energy is probably our most likely outcome.

3 **MR. REGAN:** You could choose to run your own
4 generation?

5 **MR. SIDEBOTTOM:** That's right. Yes, we'll
6 -- like we do today ---

7 **MR. REGAN:** Um-hmm?

8 **MR. SIDEBOTTOM:** --- we would look at our
9 options to internally generate and source the power, and
10 would look externally, as well.

11 **MR. REGAN:** And, finally, is there any
12 relationship, is there any quantity tied to the 4(c)(ii);
13 that is, if Nalcor's able to identify that there's a spot
14 market for a quantity of energy, would its price be
15 adjusted for only that quantity, or would it cover the
16 entire amount offered for -- in the solicitation?

17 **MR. SIDEBOTTOM:** So the -- so there isn't a
18 specific quantity tied to it. The important part of it is
19 that it has to have the equivalent value to Nova Scotia
20 Power. So maybe the -- just to take it down to an example,
21 if there was ten megawatts, and our cost was a hundred
22 dollars (\$100), and, you know, that would be a thousand
23 dollars (\$1,000); if you got that value back with one
24 megawatt or 50 megawatts, as long as the equivalent value
25 was created, that's what we're trying to achieve.

1 **MR. REGAN:** Sorry, Mark, my question was
2 about the ability of Nalcor to go to a higher price under
3 Section 4(c)(ii), because it says if they can find a higher
4 spot price of their liquid market with a site that you
5 concede to.

6 **MR. O'CONNOR:** Yes. So it says that they
7 have to be able to demonstrate both a liquid trading market
8 ---

9 **MR. REGAN:** Yes.

10 **MR. O'CONNOR:** --- and a path to it, so it
11 is limited by those constraints. So it's not for all of
12 the -- well, it could be all of the volume, I guess,
13 presumably, but it's for what they can actually move to
14 that market.

15 **MR. REGAN:** Right. My question is how much
16 of the offered amount does that affect?

17 **MR. O'CONNOR:** So if ---

18 **MR. REGAN:** A balancing amount, or all of
19 the offered amount?

20 **MR. O'CONNOR:** It's the actual amount that
21 could get to that market, so in the annual -- let's assume
22 that they have 1.8-terawatt hours available; if
23 300-gigawatt hours could make it to that alternative
24 market, that would be the amount that would be priced under
25 that mechanism.

1 **MR. REGAN:** Thank you.

2 **THE CHAIR:** Thank you, Don. Nelson, if I
3 could, I'm just going to go to the phone, but I'll come
4 back to you.

5 So we're going to open up the phone lines so
6 we can hear you, and I think the best way to do this --
7 you'll forgive me if this is intrusive, but I'm going to
8 identify specific individuals, rather than have everyone
9 start yelling at once their questions.

10 So, starting with Paul Chernick, Paul, do
11 you have questions? It may be on mute if you're asking
12 your question.

13 **MR. CHERNICK:** Yeah, there we go. Is that
14 better?

15 **THE CHAIR:** I can hear you.

16 **MR. CHERNICK:** Okay.

17 **THE CHAIR:** Can you just make sure you're
18 speaking up, Paul?

19 **MR. CHERNICK:** Okay, I will do that. Is
20 that any better?

21 **THE CHAIR:** Go ahead.

22 **MR. CHERNICK:** Okay. I wanted to follow up
23 on the question that Nancy raised about the pricing of
24 energy in the event that delivery is delayed either due to
25 a variance, or due to the option under -- for Nalcor

1 re-delivery under Section 4(d), and whether the pricing of
2 energy that's delivered at some time other than when it was
3 originally contracted for would be at the price that would
4 have prevailed at the time of this -- the -- I don't want
5 to say scheduled, because scheduled has another meaning,
6 but the planned delivery -- at the time of the planned
7 delivery, at the times actually delivered.

8 And I heard you say something about it would
9 be tied to the cost to NSPI of not getting the delivery at
10 its -- at the original time. So could you clarify in those
11 two delayed delivery scenarios what the ---

12 **MR. SIDEBOTTOM:** Yes, I can.

13 **MR. CHERNICK:** What the pricing would be?

14 **MR. SIDEBOTTOM:** Yes, I can. So if the
15 contractual price, by example, was fifty dollars (\$50) a
16 megawatt that was expecting to have the energy delivered to
17 us, and it was removed from that hour, and we had to
18 replace it with a seventy dollar (\$70) megawatt, there is
19 an incremental cost of twenty dollars (\$20) a megawatt
20 associated with the removal of that megawatt from the Nova
21 Scotia Power system.

22 What would have to happen is that the --
23 that incremental cost would have to be provided back to
24 Nova Scotia Power at a future time and delivery, and Nalcor
25 and Nova Scotia Power would have to agree to the price that

1 delivered that value at that future time. So we would have
2 to get back the twenty dollars (\$20) that it cost us to
3 allow, or have the energy taken away from us.

4 So the practice might be that it might be a
5 twenty dollar (\$20) discount from the then economic cost of
6 the generation at the time. So if the market was, again,
7 fifty dollars (\$50) in a future period, and for the hour,
8 the value of that imported megawatt might be thirty dollars
9 (\$30) in price, so that Nova Scotia Power got back the
10 twenty dollars (\$20) associated with the re-delivery of
11 that energy.

12 So that's the absolutes of how it would
13 work. Obviously, the index of pricing would be complex,
14 but you're trying to track the twenty dollar (\$20) value
15 loss, and then bring that back to Nova Scotia customers at
16 some later time. And, in theory, that could be over more
17 megawatts. It could be a ten dollar (\$10) discount over
18 twice as many megawatts.

19 So, just to give you an -- it's the twenty
20 dollars (\$20) or the value lost that's the most important
21 feature of that re-delivery.

22 **MR. CHERNICK:** Okay. And that's true for
23 both of those sections, both for the Nalcor re-delivery,
24 and for the variance?

25 **MR. SIDEBOTTOM:** Yes.

1 **MR. CHERNICK:** Okay. And one other thing
2 that puzzled me about that is that since the contract that
3 would be entered into after the solicitation is for, say,
4 delivery on-peak in April, how would you -- and both of
5 these situations assume that there'd be -- that the
6 re-scheduling would occur without the -- the delivery would
7 not actually be scheduled to a particular day and hour that
8 this change in plans would occur before the actually
9 scheduling, how are you thinking you would identify the
10 lost value for something like on-peak in April?

11 **MR. SIDEBOTTOM:** Typically, when we go out
12 for an RFP, we might describe it as on-peak hours looking
13 like 50-megawatts times the 16 peak hours in the day for
14 the whole month. And, so, although we talk about it being
15 an on-peak in a month, it's really describing it as a
16 series of hours that all add up to the on-peak hours, and
17 so it would look like strips of energy, like 50-megawatts
18 flowing in the on-peak hours.

19 So I think it would be relatively easy to
20 understand where that day, or those two days came from, and
21 the associated value. So we -- although we describe it as
22 on- and off-peak, we actually do it by saying 16 hours in a
23 day, five days a week for all weekdays.

24 **MR. CHERNICK:** But you wouldn't be required
25 to schedule hourly?

1 **MR. SIDEBOTTOM:** Not at that point in time.
2 There is an hourly scheduling protocol that we end up going
3 to which starts, and is associated, actually, with the
4 Transmission Utilization Agreement ---
5 **MR. CHERNICK:** Right.
6 **MR. SIDEBOTTOM:** --- where we start working
7 in day ahead.
8 **MR. CHERNICK:** Um-hmm?
9 **MR. SIDEBOTTOM:** At that point, the ability
10 to re-direct the energy is limited, at that point, for
11 Nalcor to force majeure events, and they can't ---
12 **MR. CHERNICK:** Right.
13 **MR. SIDEBOTTOM:** They can't move away from
14 ---
15 **MR. CHERNICK:** Yeah.
16 **MR. SIDEBOTTOM:** --- this to another market
17 ---
18 **MR. CHERNICK:** Yeah. And, so, what's
19 puzzling me is that, at a time when all you've agreed to is
20 that you'll take -- you have the right to take up to an
21 average of 50-megawatt hours an hour in peak hours of
22 April, Nalcor says, "Well, for one reason or another, we've
23 decided we don't want to deliver for a period of four days
24 in there", you haven't specified how much you'd take in
25 which hour of those days yet.

1 And, so, how would it be determined what you
2 actually would take in what time pattern over those four
3 days, or is that something that would just -- you'd have to
4 come up with some ad hoc negotiation between the parties to
5 try and figure it out?

6 **MR. SIDEBOTTOM:** Yeah. So I think the way
7 we'd actually issue the RFP it'd be quite clear what our
8 peak and off-peak energy flows were by hour, although we
9 are doing monthly solicitations. What we'd typically do is
10 there'd be a strip of energy on peak flowing at
11 50-megawatts. That would be a typical solicitation,
12 especially in a year round environment, so it'd be quite
13 clear how many megawatts would be flowing in each of those
14 hours.

15 **MR. CHERNICK:** Okay. That's ---

16 **MR. SIDEBOTTOM:** And ---

17 **MR. CHERNICK:** --- different than what's --
18 what's in the Agreement just says that you would specify
19 the number of megawatt hours in, say, the April on-peak,
20 but you're saying you would actually say the contract is
21 for 50-megawatt hours per hour throughout the on-peak
22 period?

23 **MR. SIDEBOTTOM:** Yes, and where it is, it's
24 going between the level of detail in this Agreement, and
25 then the practical application of RFPs as you actually go

1 out into the business. You don't go out into the market
2 and specify "I'd like, you know, X number of gigawatts in
3 the peak." The first question you'll back -- you'll get
4 back from the market is, "Well, is that 50-megawatts all
5 hours?"

6 They'll very specifically ask that before
7 anyone will bid, so we wouldn't go out to the market asking
8 for something like that; otherwise, we wouldn't get a
9 reasonable bid response.

10 **MR. CHERNICK:** Okay. So rather than some
11 lump of megawatt hours that Nalcor would be required to
12 provide as you schedule it during the April on-peak period,
13 the agreement would be that they would give you up to
14 50-megawatts, for example, if that was the amount that
15 you'd solicited, in each hour, and you would a day before
16 tell them whether you want zero, or 50, or something in
17 between, but you couldn't say, "Oh, and we'll take some of
18 the other megawatt hours that you had promised us for
19 April, and we'll take them on this day at 4:00."

20 **MR. SIDEBOTTOM:** Yeah, we would have to, as
21 Nova Scotia Power, commit to the profile we were going to
22 award in that year ahead environment, and then Nalcor would
23 also have to be specific enough to know when the megawatts
24 were going to be requested if they're going to use 4(d), as
25 well; otherwise, there's no way to price this, or put a

1 value around it.

2 **MR. CHERNICK:** Well, I thought that the
3 pricing was -- at spot market prices that it was tied to --
4 it was basically an index from -- that was either the Mass
5 hub, or it was a -- some other liquid price that was
6 readily available and observable, and that the -- that
7 Nalcor could point to after the fact, and say, "This is
8 what we could have gotten there, and therefore, you have to
9 pay us that much for that hour."

10 But you're describing it as a much more
11 conventional purchase rather than economy energy scheduled
12 at NSPI's convenience. Does that mean that NS -- would --
13 so does NSPI have to take what it's committed to in the
14 bid, or would that just be a ceiling, and it could take up
15 to that amount, or it could take nothing in a particular
16 hour?

17 **MR. SIDEBOTTOM:** It is a commitment Nova
18 Scotia Power would have to take once we've awarded the bid,
19 just like any other.

20 **MR. CHERNICK:** But -- then what's the hourly
21 -- the day-ahead hourly scheduling amount to? If you
22 already said, "We're going to take 50-megawatt hours an
23 hour", then there's nothing left to schedule. That's --
24 you do your scheduling a month ahead.

25 **MR. SIDEBOTTOM:** Yeah, there's a change in

1 the characteristics from the ability to withdraw the
2 megawatts, and have them enter another market under Section
3 4(d). After you get into the scheduling protocol, which is
4 the day-ahead environment, that option moves off.

5 **MR. CHERNICK:** Okay. That just locks in
6 what you've already agreed to?

7 **MR. SIDEBOTTOM:** Correct, yes.

8 **THE CHAIR:** Paul, I'm going to make sure
9 that we are giving everyone a chance.

10 **MR. CHERNICK:** That's fine. I was done with
11 that issue, and I was about to hand you back the
12 microphone.

13 **THE CHAIR:** Thanks, Paul. Staying on the
14 line for another moment, John Athas, LaCapra, any
15 questions?

16 **MR. ATHAS:** Sure, thank you. I have a
17 question on just, you know, around the -- what kind of
18 protocol are you going to have between Nalcor and Nova
19 Scotia Power for alternative prices that you get from -- if
20 it's allowed -- from the -- that are above the Mass hub?
21 You know, if you -- you know, what kind of documentation,
22 formal contracts, or the like are you anticipating this
23 agreement will require?

24 **MR. SIDEBOTTOM:** We have not set out the
25 specific documentation that will be required. We have the

1 ability to audit to ensure that these are, in fact, good
2 faith paths, and that we'd expect that, you know, the
3 parties would review whatever information was required to
4 ensure that was the case. So, at this point in time, it is
5 a right to audit to ensure that, in fact, that's the case.

6 **MR. ATHAS:** Okay. And that's helpful. One
7 other question around just pricing -- a lot of my
8 questions, some of them are asked already -- is -- just to
9 verify, their substitution of other intermittent resources,
10 or specifically wind as part of the energy available, that
11 does not change the price that we're talking about at all,
12 does it?

13 **MR. SIDEBOTTOM:** No, it doesn't.

14 **MR. ATHAS:** Okay. And the -- similar to the
15 question on alternative prices, what are the audit rights,
16 if any, that you expect to give, or how would you settle
17 any disputes if NSPI said that a change in scheduling cost
18 them, in your example, twenty dollars (\$20) a megawatt
19 hour, and now thought that that was too high in a -- for a
20 given hour?

21 **MR. SIDEBOTTOM:** I think it would have
22 reciprocal audit rights on that point. I'd also defer to
23 our legal counsel who can help as it gets more legal here.

24 **THE CHAIR:** No, I think that's fair. I
25 mean, both parties have to have the right to test the

1 positions of each other in those commercial arrangements.

2 **MR. ATHAS:** Okay. And that's -- now would
3 -- if you -- if Nova Scotia Power wanted to go after
4 additional solicitations, like, let's just say that the
5 available energy is not taken by Nova Scotia Power at your
6 -- the date that you now wanted in here, but then in --
7 three months later they -- that you -- Nova Scotia Power
8 wants to out for solicitation, do you intend to pay -- try
9 -- is there any build-in of any obligation, at that point,
10 for Nalcor to have a requirement to re-offer what still is
11 available?

12 **THE CHAIR:** No, Nalcor can participate in
13 that subsequent solicitation, but they're not obligated to
14 do so. Indeed they may have already found another customer
15 for their energy for that year by that time.

16 **MR. ATHAS:** Well, suppose they're -- suppose
17 they have still available energy ---

18 **THE CHAIR:** Then they -- then we would
19 expect that they would want to, as any commercial partner
20 would, participate in a solicitation, but they're not
21 obligated to do so.

22 **MR. ATHAS:** But would they have any
23 obligations to put on price ceilings, like, that apply to
24 this agreement that you ---

25 **THE CHAIR:** No.

1 **MR. ATHAS:** Okay. Is there any particular
2 reason why NS -- Nova Scotia Power is not seeking that?

3 **THE CHAIR:** Well, the initial commitment to
4 make energy available, and then to make the forecast of
5 available energy known, and then bid that forecast amount
6 at a capped price is the commitment that creates the market
7 opportunities for Nova Scotia Power and its customers.

8 But, as a reasonable commercial entity, if
9 Nalcor's energy, at that point, is not taken up by Nova
10 Scotia Power, either because they don't need it, or they
11 don't accept it at the price at which its bid, then Nalcor
12 has to have the flexibility to go back to market, or find
13 another customer for that energy at that time. And if they
14 still have energy available when Nova Scotia Power next
15 goes out to the market, then, like any other player in the
16 market, they can bid in.

17 The commitment is to make energy available.
18 That was what the Board directed us to obtain, and so that
19 energy is made available at the annual solicitation time.

20 **MR. ATHAS:** I understand why Nalcor would --
21 wouldn't want any -- would want as little requirements on
22 them as possible. I'm just trying to understand why N.S.
23 Power -- Nova Scotia Power wouldn't be -- would only want
24 to have the ability to have that availability at one point
25 in time during the year with any kind of avail -- must

1 offer. I mean ---

2 **THE CHAIR:** Yeah.

3 **MR. ATHAS:** --- it strikes me as if -- it
4 strikes me that, you know, one shot at one time during the
5 year, and the availability may have -- it might be
6 beneficial to have some obligations to bid at certain
7 pre-described prices for whatever energy is still
8 available. I'm not about constraining them from selling.

9 **THE CHAIR:** Yeah, so, I guess what I would
10 say is I didn't say that we were putting as little
11 commitments on Nalcor as possible. I think, in fact, we're
12 putting some very significant commitments on Nalcor by this
13 Agreement. But I would say that Emera, and I can speak on
14 behalf of Nova Scotia Power on this point, believes that
15 the market will be created by this Agreement, and that
16 there will be market participants beyond Nalcor in any
17 solicitations on an annual basis, and there will be many
18 market participants if Nova Scotia Power decides to go to
19 the market at other times of the year, and on none of those
20 market participants would be there be any limitations or
21 constraints.

22 They will be free market participants to bid
23 at whatever price they believe will gain them the business,
24 and Nova Scotia Power will retain complete flexibility to
25 take bids that are of value to Nova Scotia Power customers

1 at all stages, including at the annual solicitation.

2 So we think that that is actually a proper
3 operation of the market, and I guess I can only be factual
4 that the things that you've suggested could have been in
5 the Agreement are not in the Agreement. The cap for later
6 in the year bids, or that kind of thing, they're not -- you
7 won't find them in the Agreement.

8 **MR. ATHAS:** Um-hmm.

9 **THE CHAIR:** John, can I just -- I want to --
10 I will -- happy to keep coming back to people. We have
11 more questions in the room, but I just want to do another
12 couple of people on the phone, and then we'll just take
13 stock ---

14 **MR. ATHAS:** That's good. Thank you.

15 **THE CHAIR:** --- of where we are. Thanks.
16 Can I go next to -- who should I go to? Seth Parker at
17 Levitan? Seth, do you have any questions?

18 **MR. PARKER:** At this point I do not. Thank
19 you.

20 **THE CHAIR:** Thanks, Seth. John Dalton?

21 **MR. DALTON:** I have no questions at this
22 point.

23 **THE CHAIR:** Thank you, John. Todd
24 MacDonald?

25 **MR. MacDONALD:** Yes, thank you. I do have a

1 couple of questions. As we know, the original application
2 called for approximately 1-terawatt of the Nova Scotia
3 black energy and 2-terawatts of the surplus energy which
4 would be priced at a cheaper price, and the combination of
5 those two gave us a weighted average which was the lowest
6 cost alternative.

7 And now we have Nalcor with an obligation to
8 offer 1.2-terawatts of surplus energy, and I believe my --
9 it's an unknown volume that Nova Scotia Power will be
10 taking. Would I be correct in saying that the volume of
11 surplus energy that we'll end up taking in the end is
12 unknown at this point?

13 **THE CHAIR:** The volume of surplus energy was
14 always unknown. What we did is we modeled surplus energy
15 at Mass hub, and that model forecasted that we would want
16 to take a certain volume of energy, and that was
17 represented in Figure 4-4 which we updated as Undertaking
18 U-3 for the low load forecasts.

19 So if you take those same components under t
20 this arrangement, we believe that that volume of
21 1.2-terawatts hours, which was predicted by Undertaking
22 U-3, will be taken up if those conditions remained as we
23 forecasted, and this Agreement allows for that to happen.

24 **MR. MacDONALD:** And two follow-up questions
25 on that. The Figure 4.4 which you reference assumed that

1 you would take so much Mass hub in pretty much every year,
2 correct?

3 **THE CHAIR:** Yes.

4 **MR. MacDONALD:** Correct. And, so, would
5 this not create the opportunity or possibility that it's
6 offered in some years and not in others when you actually
7 need it, and therefore, the average is not the same as
8 getting the same amount of energy every year?

9 Are you actually -- is it not possible,
10 mathematically, that you end with less surplus energy than
11 what you forecast you need because of the flexibility
12 offered to Nalcor to only provide it when they have the
13 hydrology, and after they meet their own needs?

14 **THE CHAIR:** I think as Paul's explanation
15 explained, we're confident that at least 1.2-terawatt hours
16 of energy is going to be available, so we're very confident
17 that the amounts forecasted in Undertaking U-3 will be
18 available.

19 **MR. MacDONALD:** I think my question is, is
20 it mathematically possible that that doesn't happen, given
21 the rights for Nalcor? It's not whether you're confident
22 or not.

23 **THE CHAIR:** I don't think that -- but I
24 don't think the rights, or the obligations by either party
25 in this Agreement would drive a conclusion that it's not

1 mathematically possible.

2 In theory, it's theoretically possible that
3 something could happen to hydrology generation in
4 Newfoundland that would change the amount of energy it has
5 available, because it could also happen on the load growth
6 side in Newfoundland and Labrador, and ---

7 **MR. MacDONALD:** Has there been a risk
8 adjustment for that possibility? Have you ---

9 **THE CHAIR:** What ---

10 **MR. MacDONALD:** --- assigned probabilities
11 to it at all?

12 **THE CHAIR:** What we have done is we have
13 contractual obligations from Nalcor and Emera to ensure
14 that 1.2-terawatt hours is available, on average, in every
15 year of the contract.

16 **MR. MacDONALD:** Available?

17 **THE CHAIR:** But there will be some years,
18 Todd, no -- you know, no doubt under the probabilities
19 there'll be some years when the amount is less than
20 1.2-terawatt hours, and many others where it's more.

21 **MR. MacDONALD:** Correct, but I guess I must
22 not be asking the questions the right way. In Figure 4.4
23 from the original application, are there some scenarios
24 where we could end up getting less than that, on average?

25 **THE CHAIR:** Less than the total overall?

1 **MR. MacDONALD:** Yeah.

2 **THE CHAIR:** No.

3 **MR. MacDONALD:** How come?

4 **THE CHAIR:** Because Emera and Nalcor have
5 committed to ensure that 1.2-terawatt hours are available.

6 **MR. MacDONALD:** On average, though; not in
7 per year, right?

8 **THE CHAIR:** And if you look at -- yes, and
9 if you look at the data that backs up the Figure 4-4 under
10 Undertaking U-3, you'll see that 1.2-terawatt hours, on
11 average, will deliver or make available -- will make
12 available the same amount as the energy under that
13 forecast.

14 **MR. MacDONALD:** I must not still be asking
15 ---

16 **THE CHAIR:** So in some of those years ---

17 **MR. MacDONALD:** --- the right way.

18 **THE CHAIR:** In some of those years, Todd, if
19 you look at the data under Undertaking U-3, in some of
20 those years it's 1150, and in some of those years it's a
21 little more than 1200, but if you look at the total amount
22 of all of that time period that was forecast, then you see
23 energy volumes that are consistent with 1.2-terawatt hours
24 on average per year.

25 But I think you're quite right. If all

1 you're trying to say is we won't -- we shouldn't expect to
2 match exactly that figure in terms of the volumes, I think
3 you're quite right, because that figure did not reflect the
4 kind of hydrology information we have today.

5 **MS. TOWER:** Rene ---

6 **THE CHAIR:** Overall, the energy will be the
7 same.

8 **MR. MacDONALD:** I think what I'm saying is
9 you may be offered more than you need in some years, and
10 less than you need in the years that you actually need it,
11 and therefore, the average may be the same, but the value
12 is much less.

13 And let me -- I'll just move on to my second
14 question here. The lowest cost alternative that you've
15 proposed is for a theoretical unknown price given that
16 Nalcor has the right to find an alternative market
17 participant. Is that accurate?

18 **THE CHAIR:** I'm just think -- I'm just
19 processing your question, Todd.

20 **MR. MacDONALD:** So let me just take a -- you
21 know, all CEOs that sign big contracts would say, "Take me
22 through a worst-case scenario", so if I said to you the
23 worst-case scenario is, in the first year of this contract
24 after you sign it, Nalcor finds access to a buyer at a much
25 higher price, our price, therefore, for the balance of the

1 Agreement, which in a worst-case scenario would be all 24
2 or 35 years, would increase substantially, possibly.

3 **THE CHAIR:** Yeah, I understand your question
4 now. And, so, I think, theoretically, the economics would
5 be correct, but there's two things you need to think about.
6 One is that if that were to happen, that means that's the
7 market price. That's the price at which we would have to
8 pay in order to get this market-priced energy.

9 And, number two, Nova Scotia Power has the
10 ability to say no to that energy because of the price, if
11 the pricing ends up being too high.

12 **MR. MacDONALD:** It's -- I think what ---

13 **THE CHAIR:** So those two factors will help
14 protect Nova Scotia Power customers from paying too high a
15 price for economy energy, which would have been present
16 even in the absence of this Agreement, we believe.

17 **MR. MacDONALD:** But is not present in Figure
18 4.4, correct?

19 **THE CHAIR:** Well, Figure 4.4 models one
20 price index. That's true. The ---

21 **MR. MacDONALD:** So there is no risk
22 adjustment for the ratepayer risk -- that the price could
23 actually be substantially higher than that.

24 **THE CHAIR:** We believe, Todd, that the
25 Board's condition was very clear that we had an obligation

1 to ensure access to energy in the volumes consistent with
2 Figure 4-4, and the Board was also clear that it
3 understands the price might change from that that is
4 forecasted in Figure 4-4. We testified in the spring, and
5 we believe firmly today that the market will operate in
6 such a way that much lower prices than mass hub will be
7 available to Nova Scotia Power for these volumes of energy.
8 But time will only tell on that.

9 **MR. MacDONALD:** Thank you. And I'll move on
10 to my last question.

11 **THE CHAIR:** Okay.

12 **MR. MacDONALD:** Regarding the competitive
13 bid process, is that something that all parties will be
14 treated equally, or what assurances do ratepayers have that
15 all bids will be submitted and opened at the same time?
16 Can you talk, please, about the process around that?

17 **THE CHAIR:** Um-hmm. It's a good question,
18 and I would say that Nova Scotia Power customers can rely
19 upon the fact that this is essentially a FAM transaction.
20 It's not fuel, but it is imported power, and that it has to
21 be done in accordance with the practices and procedures
22 that ensure a fair and transparent competitive solicitation
23 is in place for the import of this energy, as it would be
24 for all of Nova Scotia Power's commercial transactions. So
25 I want to turn it over to Wayne Crawley, who has

1 responsibility for -- sorry, I apologize, Wayne, I didn't
2 mean to do that -- Wayne O'Connor, who has responsibility
3 for these transactions.

4 **MR. O'CONNOR:** Thank you, Rene. So, Nova
5 Scotia Power goes through many -- and you would know this,
6 Todd -- many solicitations on a regular basis for both
7 solid fuel, natural gas, and electricity, and all of those
8 processes are well documented. We go through a competitive
9 process to get as many bidders as possible, so we can
10 ensure the lowest price outcome for our customers. It's
11 documented and it's open for review from the UARB
12 throughout our regular processes. So we will adhere to
13 that strictly, and we will encourage and welcome
14 competitors, and as many competitors as we can get, quite
15 frankly, into not only the annual solicitation but every
16 solicitation we have after that. Thank you for that
17 question.

18 **MR. MacDONALD:** Sure. And under no
19 circumstances has Emera ever been given prior access to the
20 other bids in the competitive fuel process?

21 **MR. O'CONNOR:** Absolutely not.

22 **MR. MacDONALD:** Thank you. That's all my
23 questions.

24 **THE CHAIR:** Thanks, Todd. I'm going to come
25 back to the room now. Let me just take the temperature,

1 because we've been going for about two hours, and I wonder
2 whether anybody would appreciate a chance to stretch your
3 legs and refresh your coffee, if we can do that. I don't
4 know if there's any coffee out there anymore. Or if we
5 want to just continue if we're coming to an end of the
6 questions. Nancy wants a break. I'm with Nancy. Okay.
7 Folks on the phone, we're going to take a 10-minute break.
8 It's ten after two here in Halifax, so 20 after two
9 Atlantic, we'll resume. So you can stay on the line.
10 We'll keep the line open. Thanks.

11 --- Upon recessing at 2:12 p.m.

12 --- Upon resuming at 2:26 p.m.

13 **THE CHAIR:** Nelson, we have about another
14 hour, give or take, in the room. We're going to go back to
15 the phones rather than to Nelson, but just before we do
16 that, one of my colleagues made the point that -- you know,
17 we were discussing what kind of commitments have we put on
18 Nalcor here. And one of the things that I wanted to be
19 clear on that I meant to say during the presentation is,
20 one of the significant commitments is that Nalcor is not
21 free to make long-term commitments outside of Newfoundland
22 and Labrador, and in particular, outside of Nova Scotia.

23 So, you know, one of the things that we
24 heard at the hearing -- one of the concerns was that Nalcor
25 could find a customer, for example, in New England, sign a,

1 you know, five-year, 10-year or 20-year contract, and that
2 energy just flow through. That can no longer happen under
3 this agreement. They have to reserve the energy for these
4 annual processes, so they can sell the energy we don't take
5 in the one-year bid, but only for the rest of that year.
6 They can't make any commitments beyond that year because
7 they have to always operate under this contract where
8 there's an annual forecast of available energy, potential
9 for a solicitation, and a bid that equals that forecast on
10 an annual basis. I think that's a pretty important factor
11 that I had neglected to make earlier.

12 I've been asked to go to the phone to John
13 Athas for -- he's got a question or two, and then he might
14 have to leave us. So, John?

15 **MR. ATHAS:** Thanks a lot. I appreciate the
16 accommodation, and I'll try to be pretty brief. The first
17 question is around -- you mentioned that if there was
18 problems on delivery and other stuff, that there would
19 be -- that you'd work toward a commercially reasonable
20 solution. And I think that has to do with this economic
21 value process about preserving the economic value. Can you
22 just give me a little better flavour for how much you will
23 try to encode -- you think you're going to try to encode in
24 a contract versus leave open to that kind of clause that's
25 pretty vague and open for interpretation?

1 **THE CHAIR:** Mark?

2 **MR. SIDEBOTTOM:** Thank you. I think the
3 concept of incremental costs or incremental value are
4 relatively well understood, and we've used a number of
5 methods in our business to calculate that. Marginal
6 replacement cost is one incremental generation. I think
7 the principle is the most important thing to put into the
8 agreement because when we get out to that point in time,
9 we'd have to consider potentially the emission cost or
10 other number of things like that. So I don't think we'd
11 want to codify much more than there is today -- that we
12 need to, in essence, work out the cost of not delivering
13 that energy, and that that value be redelivered to Nova
14 Scotia Power within the 365 days. I think that -- although
15 it's not specific in exact calculation, it is very helpful
16 in giving guidance to how the calculations would be done at
17 that point in time.

18 **THE CHAIR:** Remember, John, that one of our
19 driving principles was to ensure N.S. Power had as much
20 flexibility as possible in these solicitations to find
21 value for customers. So each one of these annual
22 solicitations, if they result in a contract, while there is
23 a standard form agreement, has the opportunity for
24 negotiation over terms that might be applicable at the time
25 of that contract.

1 **MR. ATHAS:** Okay, thanks. The other
2 question is around the issue of the -- you know,
3 essentially, I think a lot of this is premised on the fact
4 that the power is expected to qualify under the -- for RES
5 in -- for Nova Scotia Power. And there is a part in the
6 filing that you've made, in the appendix, on page 6, that
7 talks about the fact that Nalcor shall retain greenhouse
8 gas credits. And maybe you could elaborate a little bit
9 more as to why that's not in conflict with the -- you know,
10 being able to have this power qualify for RES in Nova
11 Scotia.

12 **MR. SIDEBOTTOM:** This energy, in the low-
13 load case, was never required to allow us to qualify for
14 RES consideration. It is an import of a non-firm or an
15 energy-only product, and that was the case actually in the
16 original filing, and it is still the same today. The Nova
17 Scotia block is the firm component which is important in
18 satisfying the RES requirements for 2020 and beyond.

19 **MR. ATHAS:** Okay. So if the attributes for
20 RES remain with Nalcor, you wouldn't get them either way.
21 What makes you think that the price would -- that there
22 wouldn't always be a set of buyers that are willing to pay
23 a premium above mass hub and other markets for this power
24 if they get additional attributes that you wouldn't get?

25 **MR. SIDEBOTTOM:** I'm not sure if I quite

1 have that, but the product that's being offered to Nova
2 Scotia Power is a non-RES, non-GHG, energy-only product.
3 That has a fairly clear price in New England, which can be
4 benchmarked quite well. The GHG credits are retained by
5 Nalcor, as set out in the agreement. And if there is a
6 market for those GHG credits, they can do what they wish
7 with those credits, but we are only buying the energy
8 component.

9 **MR. ATHAS:** All right. So you would -- so
10 an alternative deal wouldn't allow Nalcor to have -- to use
11 as a comparable a product that has the attributes of
12 capacity in greenhouse gas credits.

13 **MR. SIDEBOTTOM:** So that's a different
14 product that's being sold to Nova Scotia Power. What's
15 being sold to Nova Scotia Power and being offered each year
16 is excess energy with no capacity and no GHG credits. So
17 that's the benchmark product that is going to be tested for
18 us.

19 **MR. ATHAS:** But when you offer -- so that'll
20 be tested in the market with the mass hub, and so
21 no -- there wouldn't be able to be anything benchmarked
22 that has other attributes in it like those two attributes.
23 So you can't come back with a price that is mass hub plus
24 ten dollars, but in there they get the greenhouse credits.
25 Just want to be clear.

1 **MR. SIDEBOTTOM:** Yeah, so it is an energy-
2 only product, so that's the benchmark I would see us using
3 in the comparison. Nalcor is free to monetize the GHG
4 credits, as they are owned by them, in whatever market
5 existed at some future state for those credits
6 independently.

7 I don't know if there was a second question
8 I heard, which is, you know, why didn't we seek them. I
9 think it was because, you know, we also at this point don't
10 need that, and see the ability to decide whether we need to
11 pay for GHG credits at some later date.

12 **MR. ATHAS:** Okay. I think that covers my
13 two. Thanks a lot for squeezing me in.

14 **THE CHAIR:** No problem, John. Thanks for
15 joining us. Nelson?

16 **MR. BLACKBURN:** Thanks, Rene. I left my
17 reading glasses down in the car, so I'm going to try to
18 blur my way through this.

19 I just got a question -- again, it's just an
20 extension of what John mentioned earlier. On page 12 of 20
21 of your evidence, line 18, you say:

22 "In the event that a Nalcor progress report indicates the
23 actual average annual amount of energy to be made available
24 to Nova Scotia Power over the term will be less than 1.2
25 terawatt, Nalcor and Emera will work together to find a

1 commercially reasonable solution such that not less than
2 the average at 1.2 will be available to Nova Scotia Power."

3 Now, that's not defined anywhere. And I was
4 wondering if you'd be prepared in the agreement to either
5 add a definition or expand on that to -- now if I could
6 just read my notes here that I wrote down -- that:
7 "To define that any change in schedule and delivery of
8 energy or a shortfall in energy delivery be delivered at a
9 price and timing that produces the same or greater economic
10 value as if the energy was delivered."

11 Now, wouldn't that be kind of a better
12 definition of commercially reasonable solution? Because
13 that's what the intent is. Or do you agree that's the
14 intent? Because what ---

15 **THE CHAIR:** Well, I feel compelled to tell
16 you, Nelson, that the contract is completed, so we
17 presented this contract to the Board for approval. So
18 that's my first point is we're not really anticipating any
19 changes to the contract.

20 But on the substance of your point, I think
21 what we're saying here is what the contract says, which is
22 that in the event there's a forecast that that much energy
23 is not going to be available, the 1.2 on average, then
24 Nalcor and Emera will work together. The solution to that
25 needs to be commercially reasonable, and if it's not, then

1 the next step will happen, which is Emera will have to step
2 up for 300, and Nalcor will continue to ensure that 900 is
3 available. But it's availability. You spoke about a
4 couple of things. Price ---

5 **MR. BLACKBURN:** But I want to talk about it,
6 though. Like:

7 "...be delivered at a price and timing that produces the
8 same or greater economic value as if it was delivered."

9 So isn't that what we're talking about?

10 **THE CHAIR:** No.

11 **MR. BLACKBURN:** We're not.

12 **THE CHAIR:** No. We're talking about energy
13 being available. It creates value for Nova Scotia Power
14 and its customers when Nova Scotia Power accepts a bid that
15 contracts for the energy. But this clause is about what
16 will be available on average over the term. That available
17 energy might not get delivered. It might not get delivered
18 because the price isn't right. It might not get delivered
19 because it's interruptible energy, and it may not show up.
20 Even if the forecast says it will be there, the hydrology
21 could change during the year and we might not get it all.
22 So it's not about price or delivery of the energy. The
23 agreement is about creating the market, ensuring it's
24 accessible.

25 **MR. BLACKBURN:** Okay.

1 **THE CHAIR:** Okay?

2 **MR. MAHODY:** Rene, I wonder if I might
3 just -- I have a different point that I just wanted to get
4 an overview of the Applicants on. Now might be an
5 appropriate time.

6 **THE CHAIR:** Is it the same -- is it on the
7 same line as Nelson's?

8 **MR. MAHODY:** No.

9 **THE CHAIR:** I just wanted to let one more
10 person go before we go around again. Bill, is that okay?

11 **MR. MAHODY:** Mine is not coming around
12 again. I'd like to get the Applicants' position on the
13 request for an adjournment. So when you're ready, I'd like
14 to get that ---

15 **THE CHAIR:** Thanks, Bill.

16 **MR. WALKER:** I just had a follow-up on this
17 discussion that we were just having with respect to the
18 variances. This is Brent Walker from Morrison Park. Can
19 you just describe the variance trigger date and how that
20 would happen? Because the way I interpret the way you've
21 discussed it is it sounds like it's an aggregate
22 commitment. In other words, it's 1.2 terawatts of energy
23 times the number of years in the contract, and whenever
24 that number gets hit -- like, let's say for the sake of
25 argument that it works out to be a 20-year contract. So

1 what the commitment really is is 24 terawatt hours, and
2 whenever that 24 terawatt hours gets filled up, then the
3 commitment is satisfied, and then it's just available
4 energy from there. Is that accurate or ---

5 **MS. TOWER:** So that's accurate as it relates
6 to the commitment by Emera and Nalcor, should Nalcor
7 determine they have no energy. But it is Nalcor's
8 obligation to bid energy throughout the term of the
9 contract if they have that energy. And as Mr. Humphries
10 said when he gave his presentation, you know, he's very
11 confident that there will be energy available. And based
12 on the way they plan their system, it's virtually a
13 requirement that there be energy available. So Nalcor must
14 look at what they have available, what they need for native
15 load, and what they have available against their hydrology
16 forecast obviously, and then we come after that. So,
17 throughout the term of the contract, even if they've
18 satisfied the average, if they have energy, they have to
19 bid it. So if that's clear.

20 **MR. WALKER:** Okay. I have a follow-up on
21 that then. So, but I was just focused on the 1.2 terawatt
22 hours aspect of it. I'm trying to understand, if there's
23 kind of an aggregate commitment to provide a minimum amount
24 of energy, does that imply then that really this variance
25 trigger date isn't something that's going to happen until

1 quite late in the contract, effectively?

2 **MS. TOWER:** That's -- yeah.

3 **MR. WALKER:** Because you won't really know,
4 because it's like a two-year forward forecasting process
5 that you're talking about. And then, I guess, after the
6 two years, you just assume 1.2 for the balance of the
7 contract. And so does that mean that you've got three or
8 four years left at the back end that has to get made up
9 or ---

10 **THE CHAIR:** I just -- I think we might need
11 to correct your point on the forecast. It's different from
12 the progress report. So the forecast provides a 24-month
13 rolling forecast of what's going to be available.

14 **MR. WALKER:** Right.

15 **THE CHAIR:** There's a separate provision on
16 the progress report which will -- I'm sorry, I'm just
17 looking for it. Right. So the progress report comes
18 annually, and that's the report -- it also delivers the
19 outlook for the following two years, but the progress is
20 progress against the commitment. And so the reason we
21 targeted the 1.2 as the minimum, as the target, is because
22 that is a line that's consistent with the volumes
23 undertaken through using the low-load forecast.

24 **MR. WALKER:** So the progress report will
25 always make a report that the commitment is going to get

1 met based on that progress report, and it would only be at
2 a point in time when both parties say it can't be met.

3 **THE CHAIR:** Right.

4 **MR. WALKER:** So there's 50 percent less
5 water in Labrador or something like that that happens. But
6 that's what has to happen is there has to be some agreement
7 at some point in the future that that commitment cannot be
8 met over the term of the contract.

9 **THE CHAIR:** That's right. An agreement -- I
10 mean, it's likely to play out that Nalcor will tell us in
11 the progress report we're not going to make it, and we will
12 challenge that.

13 **MR. WALKER:** Yeah.

14 **THE CHAIR:** And then it'll be tested, and
15 the outcome of that challenge, which could be actually by a
16 dispute resolution process by an independent expert -- the
17 outcome of that will be it does appear that there is going
18 to be a variance.

19 **MR. WALKER:** Okay. Thank you.

20 **THE CHAIR:** Okay. Now, let's come -- sorry,
21 Maggie.

22 **MS. STEWART:** I just wanted to ask a quick
23 follow-up question on language. It's Maggie Stewart of the
24 Industrial Group. I've heard you use interchangeably that
25 1.2 is a minimum amount and an average amount, and I think

1 those have sort of different meanings. My understanding is
2 that 1.2 is an average amount over the years, but in any
3 given year, based on hydrology, for example, or the native
4 load for Newfoundland and Labrador, the amount that is
5 actually bid by Nalcor could be below 1.2 terawatts in any
6 given year. Is that correct?

7 **THE CHAIR:** That's correct.

8 **MS. STEWART:** So it's not actually the
9 minimum in any given year.

10 **THE CHAIR:** Not in any given year, but over
11 the ---

12 **MS. STEWART:** Okay. Thank you.

13 **THE CHAIR:** --- life of the contract, it is,
14 yeah.

15 Okay, let's come to Bill's question. Do you
16 want to restate it so ---

17 **MR. MAHODY:** Sure. Thank you, Rene. We've
18 heard from you that the Applicant, Nalcor, had been working
19 since the release of the decision, so somewhere around
20 three months, on putting together the terms of this
21 agreement and the evidence that you filed last week. Since
22 filing that evidence, there has been a request from at
23 least two intervenors that they be given more time to
24 respond. From the Applicant's perspective, Rene, what is
25 the urgency of requiring such a prompt response, if there

1 is one?

2 **THE CHAIR:** I'm just pausing on "two
3 intervenors." So I know LPRA raised the concern.

4 **MR. MAHODY:** I understand that Mr. Leasee
5 this morning had directed ---

6 **THE CHAIR:** Oh.

7 **MR. MAHODY:** --- a similar inquiry to the
8 Board, but ---

9 **THE CHAIR:** Yeah, he has. Sorry, I got
10 confused because -- I saw that, but he's not an intervenor,
11 but that's okay. Thanks.

12 Well, firstly, we are going to
13 reply -- respond to the Board's request for input by noon
14 tomorrow, so we will have that in front of the Board by
15 noon tomorrow.

16 But to give you the high level of that,
17 firstly, we take the Board at its word in its decision that
18 there would be an expedited process to address compliance
19 with the conditions, and we believe that the process in
20 place is -- while it is expedited, it is a very thorough
21 process. I think it's quite unusual for a compliance
22 filing to have a hearing, although we support in this case
23 having this hearing on these days because it will give the
24 opportunity for a full review of the agreement and the
25 compliance with the conditions.

1 But in terms of the time pressures that
2 would cause us to resist any delay in the schedule that's
3 already been established, there are a number. Probably the
4 most important one for customers is related to obtaining
5 the federal loan guarantee. That work has been in progress
6 and it continues, but it's a very significant financing of
7 the Nalcor projects and the Maritime Link. The way -- as
8 you'll have seen from the formal agreements and the
9 sanctioned agreement, the way that it works -- and the
10 federal loan guarantee agreement, of course -- the way that
11 it works is Nalcor is working to meet the commitments and
12 the conditions of the federal loan guarantee. And David,
13 I'm not sure what level of confidentiality you have over
14 some of that work, but I will try not to go too far, and
15 you can stop me at any time if you think I have. But the
16 time pressures on the project and obtaining that is that
17 that needs to be expedited, that work, that there are
18 significant decisions to be made about ---

19 **MR. MacDOUGALL:** --- Rene.

20 **THE CHAIR:** Sorry, did you interrupt me,
21 David?

22 **MR. MacDOUGALL:** Yeah. I think we should
23 respond in your submission tomorrow on that, in the process
24 that's set out.

25 **THE CHAIR:** Sure. Yeah. So what I was

1 going to say is that there are significant time pressures
2 that we need to address that we'll be able to explain in
3 our letter tomorrow with the federal loan guarantee. And
4 Emera's responsibilities under the federal loan guarantee
5 agreement follow quickly upon those, as you'll have seen
6 from reviewing the agreement yourself.

7 In addition to the financing, which is a
8 significant value to customers that we be able to actually
9 obtain that, Emera is at the stage very soon of making some
10 very significant contractual commitments to be able to
11 complete the necessary components of the Maritime Link.
12 And so we're trying to ensure that we are able to meet all
13 of those without putting success and cost of the project in
14 any kind of jeopardy -- to keep the costs as low as
15 possible for customers.

16 So we'll speak to that in our filing
17 tomorrow, but those are the key components today that would
18 suggest to us that this is a reasonable time for the
19 process to be completed and leave the opportunity for a
20 Board decision so that we know we are in fact going to be
21 able to proceed with the project because we have Board
22 approval. Okay?

23 I'm sure there are more questions ahead.
24 There were a couple of people on the phone, but I'll give
25 one more chance in the room before I go back to the phone.

1 **MR. OUTHOUSE:** Rene?

2 **THE CHAIR:** Bruce?

3 **MR. OUTHOUSE:** I guess I just want to be
4 sure of a couple of things. I may or may not know the
5 answer, but since this is perhaps going to be the only
6 record that's before the Board other than evidence.

7 The term of the agreement -- of not this
8 agreement but the Link agreement is 25 -- 35 years. This
9 agreement expires in 2041, and of course, the economics
10 were run on a longer period than that. Why does this
11 agreement not extend 35 years, but terminate with, in
12 effect, the end of the Churchill Falls arrangement between
13 Nalcor and Quebec?

14 **MS. TOWER:** From our perspective and
15 certainly what we heard during the hearing was that there
16 didn't seem to be much doubt that there was going to be
17 lots of market energy available in 2041 once all the energy
18 came back from the Upper Churchill. And so we felt that
19 the condition really required us to ensure there was market
20 energy up until that time, and so it was -- that was the
21 agreement we came forward with, the agreement we made with
22 Nalcor, and of course, continue to be confident that once
23 2041 is here, that there will be lots of market energy.

24 **THE CHAIR:** And the other point on that,
25 Bruce, is that Figure 4-4 and undertaking U-3 align with

1 that time period. They both went to 2040.

2 **MR. OUTHUSE:** I have some other questions,
3 if others have none, but I don't want to monopolize others'
4 time because I don't think we're going to end sharp at
5 3:00, but if others have questions, I would urge them to
6 ask them now rather than leave it unsaid and have to appear
7 at a hearing in a week's time.

8 **THE CHAIR:** Thanks, Bruce. Nancy, you're
9 reaching for your mike?

10 **MS. RUBIN:** Yeah. I have some additional
11 questions. The presentation from Nalcor, I take it that is
12 not new information to you?

13 **THE CHAIR:** Not new information to NSPML,
14 Emera and Nova Scotia Power?

15 **MS. RUBIN:** Yes.

16 **THE CHAIR:** Well, new as of when? It's new
17 since the Board's decision.

18 **MS. RUBIN:** When did you -- when were you
19 made aware of this graph, this type of -- the availability,
20 the hydrogeology?

21 **THE CHAIR:** Since the Board's decision.

22 **MS. RUBIN:** Okay. And can you provide
23 copies of those graphs with the years?

24 **THE CHAIR:** They're illustrative, Nancy.
25 It's not -- they're not data-based graphs, so there's no

1 years and energy amounts forecast in those graphs. They're
2 designed to demonstrate the -- am I right, Paul -- they're
3 designed to demonstrate the concept of how their system
4 works.

5 **MS. RUBIN:** Oh, it's just illustrative.
6 Okay. Well then I was going to ask you a question about
7 where the Nova Scotia block fit in the graph, but ---

8 **THE CHAIR:** It's considered part of the
9 Nalcor firm load in that graph.

10 **MS. RUBIN:** Okay. And would the ---

11 **THE CHAIR:** And the Nalcor folks are ---

12 **MS. RUBIN:** And would the 1.8 ---

13 **THE CHAIR:** --- nodding in agreement, for
14 the record.

15 **MS. RUBIN:** Sorry, I didn't mean to ---

16 **THE CHAIR:** Go ahead. No, no. I just
17 wanted to make sure that was on the record that Nalcor is
18 agreeing with my statement on that. Go ahead.

19 **MS. RUBIN:** Okay. And the 1.8, is that one
20 of those high peaks of your -- of the graph?

21 **THE CHAIR:** Go ahead, Paul.

22 **MR. HUMPHRIES:** No, actually, the high peaks
23 are higher. Those high peaks can be as high as 2.4, 2.5,
24 even 2.6.

25 **MS. RUBIN:** Where does 1.8 come from then?

1 **MR. HUMPHRIES:** Well, 1.8 is the number that
2 we've determined that as long as we offer the 1.8, we would
3 be assured of achieving the 1.2 average. In certain years,
4 there still may be more beyond the 1.8.

5 **MS. RUBIN:** Okay. So you're going the other
6 way. So you're assuming that it could be as little as .6
7 in any given year?

8 **MR. HUMPHRIES:** Yes. Or lower.

9 **MS. RUBIN:** Or lower. Now, Morrison Park
10 had asked a question about the variance in the progress
11 reports, and it's likely if there was found to be a
12 variance, it would be near the end of the term of the -- it
13 would be near the end of the term? Is that correct?

14 **THE CHAIR:** We think that that is the likely
15 scenario, but it is not theoretically impossible that it
16 could be sooner than the end of the term.

17 **MS. RUBIN:** Right. And one of the options
18 to address the obligations of Emera is for Nova Scotia
19 Power to elect to build wind? Is that right?

20 **THE CHAIR:** That's an option, yeah.

21 **MS. RUBIN:** Why would Nova Scotia Power
22 building wind satisfy Emera's obligations?

23 **THE CHAIR:** Well, it comes down to
24 economics, is really all it is. If the economics would
25 show that wind generation at that time fits into Nova

1 Scotia Power's system and delivers a volume of energy
2 cheaper than importing for the remainder of the term at a
3 market price, then Nova Scotia Power would want to bring
4 that before the Board and stakeholders and have a debate
5 about that.

6 **MS. RUBIN:** But the alternative is -- let's
7 say it was the last three years of the term to secure
8 market price energy versus building a wind turbine that
9 would be in effect for the next 25 years. Is that the
10 comparison that's going to be made?

11 **THE CHAIR:** I'm hesitating about your fact
12 scenario, because I'm not sure we know what comparison will
13 be made because we don't know when it's going to happen.
14 So, working with your theory, we have three years to go,
15 and we've determined that 300 GWh is needed ---

16 **MS. RUBIN:** Um-hmm.

17 **THE CHAIR:** --- for the remainder of -- in
18 order to meet the commitment.

19 **MS. RUBIN:** Yeah.

20 **THE CHAIR:** And would we be saying N.S.
21 Power is going to build a 25-year wind farm to ensure we
22 have three years of energy?

23 **MS. RUBIN:** Yeah.

24 **THE CHAIR:** So I think you're setting up
25 what probably we can all see is commercially not probably

1 the best option.

2 **MS. RUBIN:** But that's what's contemplated
3 under the agreement, that that could happen and it would
4 satisfy Emera's obligation?

5 **THE CHAIR:** It could happen, and if it's in
6 the best interest of customers, and the Board would approve
7 that, then the obligation would be satisfied, yeah.

8 **MS. RUBIN:** Okay. The attachment has a
9 balancing agreement, and it says:
10 "Emera will pay Nalcor an annual fee of eighty-seven
11 thousand, six hundred dollars (\$87,600) per megawatt,
12 escalating at CBI for the Nalcor balancing service."

13 **THE CHAIR:** Yes.

14 **MS. RUBIN:** Can you provide the backup for
15 how that fee was calculated?

16 **THE CHAIR:** Mark, do you want to speak to
17 the eighty-seven thousand, six hundred price?

18 **MR. SIDEBOTTOM:** So the first part of that,
19 it's offered to Emera, but it's inclusive of what they
20 would have to bid into the market. In other words, if it
21 was going to bid in and support the RFP, that would be
22 inclusive of the price into that market.

23 Now, to speak to the costing, in a wind
24 farm, that might look like a thirty dollar (\$30)
25 integration cost, and when we did our work with GE, we saw

1 integration costs as high as sixty dollars (\$60) as putting
2 in parts of the wind system. So it represented about half
3 the cost of what we thought integrating wind might be in
4 Nova Scotia in the future. So that was one of the ways it
5 was compared. Because actually, it's not a product that
6 you can buy in the market. It's a combination of balancing
7 and storage, which are two attributes of this particular
8 product. And so we couldn't find a comparable product in
9 the market. We looked around a fair bit for that. So we
10 went back to what we did have, which is what it would cost
11 to integrate wind, and it's 50 percent of the cost of what
12 the integration of wind at the high end would be in Nova
13 Scotia.

14 **MS. RUBIN:** So that eighty-seven thousand,
15 six hundred, was it a negotiated amount?

16 **MR. SIDEBOTTOM:** Yes.

17 **MS. RUBIN:** So this is set. So, at the
18 time, NSP can't go out to market and see if there is
19 balancing services available elsewhere at a better price?

20 **MR. SIDEBOTTOM:** It's an option to take.
21 It's not mandatory to take. So if there is a better option
22 at that point in time, Nova Scotia Power can go out and get
23 that service for that market price at that time. So it's
24 an option at the time. It's offered to ---

25 **MS. RUBIN:** Sorry. It's an option or is it

1 mandatory?

2 **THE CHAIR:** It's an option.

3 **MS. RUBIN:** So Emera pays Nalcor the fee,
4 but ---

5 **MR. SIDEBOTTOM:** It has to be nominated, so
6 it gets nominated and then you get to pay it and receive
7 the service. You cannot nominate it, and you don't pay for
8 the service.

9 **MS. RUBIN:** Sorry, I ---

10 **MR. SIDEBOTTOM:** Maybe, Nancy, I could
11 direct you to -- sorry, my glasses are missing -- Appendix
12 1, paragraph numbered one:
13 "Emera/NSP may nominate a maximum of up to 100 megawatts of
14 balancing service, and such nomination match in flow rate
15 to apply to the following calendar year."

16 And what it means, Nancy, is that each year,
17 we get an opportunity to decide if this is the right price
18 structure and service for us, and Nalcor is obligated to
19 provide that service.

20 **MS. RUBIN:** Okay. One of the forgivable
21 events is a greater need for -- I don't think I have the
22 language in front of me, but it's to serve the local -- the
23 Newfoundland native load and hydrology events in
24 Newfoundland and Labrador.

25 **THE CHAIR:** Yes.

1 **MS. RUBIN:** Is that made up, those
2 forgivable events? Like, in any given year, are they
3 obliged to make it up?

4 **THE CHAIR:** Remember that available energy
5 is the difference between Newfoundland and Labrador
6 generation less Newfoundland and Labrador load. So if
7 there's a change in load, that would mean it would be a
8 change in the available energy, so it's a forgivable event.
9 If there is a change in hydrology, that changes the
10 generation, makes it lower, then that would mean available
11 energy would be lower, so it's a forgivable event. That's
12 really the theory. It could happen during the course of
13 the year after -- a forecast could come out, and then later
14 in the year, the forecast could change because something
15 has dramatically changed to affect hydrology that wasn't
16 anticipated, or load could change.

17 **MS. RUBIN:** But how does that offer any
18 certainty, if those are really the two key variables is the
19 hydrogeology and the increased native load, if those both
20 constitute forgivable events?

21 **THE CHAIR:** That's right. And remember it's
22 non-firm economy energy, so it's energy that can be changed
23 by circumstances like that.

24 **MS. TOWER:** The certainty really comes from
25 Paul's graph, right, the top part of Paul's graph, which

1 showed the firm to average surplus that needs to be
2 available for system planning reasons over the term of the
3 contract. So that, in addition to Muskrat surplus and
4 other surplus.

5 **MS. RUBIN:** Okay, I had another -- this was
6 my last question. On page 9 of the agreement, clause 6
7 that deals with the Emera and Nalcor commitment, it says:
8 "The amount of energy made available by Nalcor to NSPI in
9 each calendar year used to determine fulfilment of the
10 contract shall be calculated as the sum of..."

11 And as I look at that, if you sum each of
12 those things, it over credits Nalcor. Can you just explain
13 whether these are supposed to be layered and overlapping or
14 if they truly are summed, how that works?

15 **THE CHAIR:** On page 8, in paragraph 6, Roman
16 Numeral I, II, III, IV ---

17 **MS. RUBIN:** So you got the -- let's take it
18 back to this scenario where you've got a solicitation for
19 1.2. They respond and offer -- or they respond, say, with
20 1.4. NSP says, "We'll take 1.2." So clause 1 would have
21 the 1.2 supplied energy.

22 **THE CHAIR:** Assuming all of that is, in the
23 end, supplied, yes.

24 **MS. RUBIN:** Right. Assuming it was all
25 supplied.

1 "Any energy supplied by Nalcor during such year..."

2 So that would be any additional energy.

3 **THE CHAIR:** Right. So, during the year, NSP
4 issues more solicitations, and Nalcor wins those bids and
5 supplies us more, yeah.

6 **MS. RUBIN:** Right.

7 "Nalcor-bid energy to the extent not accepted by or
8 supplied to NSPI."

9 So you would add on the .2?

10 **THE CHAIR:** Yes.

11 **MS. RUBIN:**

12 "Nalcor-forecast energy which exceeds the solicitation for
13 the year not supplied to NSPI."

14 So, let's say, in May, Nalcor said, "We've
15 got 1.4 available, or 1.8 available." NSP only bid 1.2.

16 **THE CHAIR:** Right.

17 **MS. RUBIN:** Do you then add on another .6?

18 **THE CHAIR:** Yes.

19 **MS. RUBIN:** So you've got 1.2 plus .2 plus
20 .6?

21 **MR. SIDEBOTTOM:** No.

22 **THE CHAIR:** No.

23 **MR. SIDEBOTTOM:** You don't add the .2 and
24 the .6.

25 **THE CHAIR:** Yeah. It should get to .8. The

1 .2, under your final scenario was ---

2 **MS. RUBIN:** You have "Nalcor-bid energy to
3 the extent not accepted by..." So you have -- we
4 forecasted 1.8, NSPI bid 1.2 ---

5 **THE CHAIR:** Called for 1.2. Nalcor bid 1.2,
6 right? In that scenario, they have to bid 1.2, not 1.4.
7 So the .2 doesn't happen in that scenario.

8 **MS. RUBIN:** But I'm saying they bid 1.4.
9 Does their bid have to match? They can bid more than
10 what's solicited.

11 **THE CHAIR:** We've only called for 1.2. They
12 can't bid more than that. If they bid more than that -- I
13 don't know why they would -- it doesn't count. It's not
14 part of the Nalcor bid as that term would be defined.

15 **MS. RUBIN:** They can't bid any more than
16 what's solicited?

17 **THE CHAIR:** Right.

18 **MR. OUTHUSE:** Rene, can I just follow up on
19 Nancy's question?

20 **THE CHAIR:** Yeah.

21 **MR. OUTHUSE:** I think what she's really
22 concerned with is there a pyramiding here, if I can call it
23 that?

24 **MS. RUBIN:** Yes.

25 **THE CHAIR:** The way that I think about

1 it -- and I over simplify it, perhaps -- but all of these
2 add up to their forecast. Plus if there's anything more
3 than their forecast that they end up bidding into, other
4 solicitations that happen during the course of the year,
5 those two things would count. Because if they forecast,
6 they have to bid that amount, unless we don't call for it.
7 But it was available to us, so that's what these should get
8 at.

9 **MR. OUTHOUSE:** Okay. But just to be
10 clear ---

11 **THE CHAIR:** David, did you want to help?

12 **MR. OUTHOUSE:** --- the sum of these parts
13 cannot exceed 1.8.

14 **MR. MacDOUGALL:** That's correct. There is
15 no double counting in these.

16 **THE CHAIR:** Well, could it -- so isn't there
17 one circumstance, David -- this is a good
18 discussion -- maybe I'm not clear -- where it could exceed
19 1.8. If Nalcor says we have 1.8, but you know you actually
20 have two because it's one of those high hydrology years, we
21 call for 1.8, you bid in, you win it, then there's another
22 bid later on in the year for 200, you bid in, you win that,
23 then the actual amount is two, right?

24 **MR. MacDOUGALL:** The amount can be higher if
25 we bid in later on a subsequent call, but for the 1.8

1 amount, it cannot be higher than the 1.8.

2 **MR. OUTHOUSE:** You could choose to buy more
3 than 1.8.

4 **THE CHAIR:** We could choose to buy more than
5 1.8.

6 **MR. OUTHOUSE:** And if you actually bought
7 it, you'd be charged with whatever you bought over the 1.8.

8 **THE CHAIR:** Correct.

9 **MR. OUTHOUSE:** But you can notionally get
10 beyond 1.8 by saying, "Well, our forecast was 'X'." You
11 only -- you bid a lower amount, but you've got to count the
12 full forecast. And you've got another bid here, and get
13 yourself under one, two, three and four, beyond the 1.8,
14 unless you actually buy it.

15 **THE CHAIR:** Right.

16 **MS. RUBIN:** Just to clarify, I think based
17 on the notes that we had here, Mark had said that there was
18 no restriction on Nalcor bidding more than the 1.8 terawatt
19 hours or more than the Nalcor forecast.

20 **THE CHAIR:** Only if we're calling for more
21 than the forecast.

22 **MS. RUBIN:** But in response to a
23 solicitation.

24 **THE CHAIR:** That calls for more than the
25 forecast.

1 **MS. RUBIN:** Can Nalcor bid more than the
2 solicitation?

3 **MR. MacDOUGALL:** No.

4 **THE CHAIR:** Not and have that extra amount
5 count.

6 **MS. RUBIN:** It could, though.

7 **MR. MacDOUGALL:** No, it can't. That's not
8 the intention. So if the solicitation is for 1.2, we
9 wouldn't bid in more than the 1.2. But if we had forecast
10 1.8 available, and they only asked for 1.2, and we bid in
11 1.2, the 1.2 would count, but the .6 between the 1.8 and
12 1.2 would also count because we had it available. But
13 there would be no situation where you would double count
14 some number in the -- that's not the intent.

15 **THE CHAIR:** So the definition of Nalcor-bid
16 energy which prevents the situation you've described is in
17 4B.

18 **MS. RUBIN:** Let's say that NSP
19 solicits -- okay, your forecast is 1.8.

20 **MR. MacDOUGALL:** Um-hmm.

21 **MS. RUBIN:** NSP solicits 1.2. You bid 1.2.
22 NSPI doesn't accept it. So you get sub-clause 3, "the bid
23 energy to the extent not accepted by," that's 1.2.

24 **MR. MacDOUGALL:** Correct.

25 **MS. RUBIN:** Plus "the forecast energy which

1 exceeds the solicitation and not supplied," that's 1.8.

2 **MR. MacDOUGALL:** No, that's .6. It's the
3 difference between the forecast and the solicitation. And
4 you add the .6 to the 1.2, and you get 1.8.

5 **THE CHAIR:** The forecast which exceeds the
6 solicitation.

7 **MR. MacDOUGALL:** It's the amount by which
8 the forecast exceeds the solicitation. 1.8 minus 1.2
9 equals .6. You add it to 1.2, you get 1.8.

10 **MS. RUBIN:** Okay.

11 **MR. MacDOUGALL:** And that is the intention.

12 **MR. McGRATH:** Can I just jump in for a
13 clarification on this as well? In terms of energy that's
14 not delivered because of a forgivable event, is that backed
15 out somewhere in this formula or is that included in any
16 event as part of the 1.2 commitment as well?

17 **THE CHAIR:** I'm just struggling to remember
18 off the top of my head. David, do you ---

19 **MR. McGRATH:** Because it looks like, in
20 paragraph 3 there ---

21 **THE CHAIR:** Where is your reference, Steve?

22 **MR. McGRATH:** It looks like, in paragraph 3,
23 this is "Nalcor-bid energy to the extent not supplied to
24 NSPI in such year."

25 **MR. MacDOUGALL:** It's backed out, Steve.

1 MR. McGRATH: It's backed out when ---

2 MR. MacDOUGALL: If it's not supplied ---

3 MR. McGRATH: Where is it backed out?

4 MR. MacDOUGALL: --- it doesn't count to the
5 1.2.

6 MR. McGRATH: Sorry?

7 MR. MacDOUGALL: If it's not supplied, then
8 it won't count to the 1.2.

9 THE CHAIR: Right. It's that "not accepted
10 by or supplied to."

11 MR. McGRATH: Okay. So it's backed out
12 there? Thank you.

13 MR. MacDOUGALL: That's the intention.

14 THE CHAIR: Thank, Steve. Good question.
15 Nancy, sorry that's confusing. I got lost in it too when
16 we were negotiating it. Other questions?

17 MR. MAHODY: And Rene, I know that Paul
18 Chernick has a number of questions if you want to go back
19 to him.

20 THE CHAIR: Okay. Let's go back to the
21 phones. Before we go to Paul, there were a couple of
22 others that haven't had a chance yet. I should just make
23 sure. John Adger?

24 MR. ADGER: No questions.

25 THE CHAIR: Tommy Vitolo, I think it was,

1 from Synapse?

2 **MR. VITOLO:** It is Tommy Vitolo. I think
3 since we're running short on time, that we'll let Bruce
4 Outhouse follow up in person perhaps after the meeting. I
5 want to make sure I get a chance to hear everyone else's
6 questions as well, and I don't want to soak up too much
7 time now.

8 **THE CHAIR:** Thank you. Philip Rathle?

9 **MR. RATHLE:** Yes. Can you hear me?

10 **THE CHAIR:** Yes. Go ahead.

11 **MR. RATHLE:** Hi. I do have several
12 questions. If you'd start, please, on page 11 of the
13 compliance filing, at the top, you state that, quote:
14 "The Energy Access Agreement provides Nova Scotia Power
15 with the opportunity to contract for energy in volumes
16 consistent with Figure 4-4 under low-load planning
17 assumptions."

18 I believe you're referring here to the Excel
19 sheet presented in undertaking 3.

20 **THE CHAIR:** Yes.

21 **MR. RATHLE:** In that low-load case, the
22 average NL surplus imports are indeed 1.2 terawatt hours,
23 but in the base case in Figure 4-4, they're 1.5 terawatt
24 hours. Is that right?

25 **THE CHAIR:** I think that's right.

1 **MR. RATHLE:** So can you explain to me why,
2 in your view, this meets the Board's condition which made
3 specific reference to NSUARB 37 and not to undertaking U-3?

4 **THE CHAIR:** Well, you have gone to the
5 reference that we think explains that, but the Board
6 concluded that the proper planning forecasts or the
7 realistic scenario was the low-load forecast. I would also
8 say, with 1.8 terawatt hours being forecast and bid, that
9 there is still an opportunity to hit the base load even if
10 we get base load growth.

11 **MR. RATHLE:** But in the passage that follows
12 the quote that you took from paragraph 106, the paragraph
13 ends:

14 "However, as was pointed out, a number of factors could
15 impact load in a way which would cause it to be higher."

16 And then in the next few paragraph, the
17 Board refers to some of those options, and then in
18 paragraph 109 says:

19 "It's known today that today's forecasts will not be
20 correct in 10 or 20 years' time. The Board needs to be
21 satisfied the project was assessed over a reasonable range
22 of load assumptions."

23 Doesn't that suggest that both the low-load
24 and the base-load scenarios are essential?

25 **THE CHAIR:** Well, I mean, we do think that

1 the low-load and base-load scenarios were quite helpful to
2 the Board and to parties in making the determination that
3 the Maritime Link is the best economic long-term option for
4 customers. So we think that that was the purpose of having
5 those different load forecasts. For the purpose of
6 ensuring access to available energy, we understood that the
7 planning assumption, the target we should use, was the low-
8 load forecast, based upon the paragraph we've referenced
9 there.

10 **MR. RATHLE:** Okay. If I could move on to
11 paragraph 4(E)i of the agreement, it's been discussed at
12 several points today. Well, I think in the last few
13 questions, it became clear that since -- that Newfoundland
14 and Labrador native load is a forgivable event, so in the
15 event that load growth results in a situation where the
16 supplemental energy is not available, there's no obligation
17 to provide it. Is that a correct understanding?

18 **THE CHAIR:** The obligation is to forecast
19 and bid the energy that's available, which is the
20 difference between generation and load.

21 **MR. RATHLE:** Right. Now, in the evidence, I
22 don't know if your room is set up to show it, but there
23 were graphicals in my evidence and in Morrison Park's
24 evidence. The references are, if it's easy for you to see
25 them, at M46, page 31, and in M48, page 32 of the PDF,

1 which showed that in the event that new generating
2 resources are not built in Newfoundland and Labrador during
3 this period, that towards the end of the period, that
4 surplus energy becomes scarce and eventually runs out. So,
5 is my understanding correct that if the future that's
6 described in those charts were indeed to come to pass, that
7 Nalcor would not be under any obligation to provide the
8 amounts of energy that we're talking about here?

9 **THE CHAIR:** I think I can answer your
10 question in two ways and try to be as helpful as I can to
11 you. And Paul was here -- is here today, and he explained
12 to the group -- and I recognize, on the phone, it's very
13 difficult to get the full flavour of it, but through his
14 presentation, he explained the energy above firm surplus
15 energy, which is variable from year to year, but will
16 provide at least 1.2 terawatt hours of energy to be
17 available for export, and on average, over the course of
18 the contract.

19 In the second piece, which I think is
20 helpful, is that the contract itself commits Emera and
21 Nalcor to ensure energy is available, even in the face of
22 that evidence that you describe. But you know, I need to
23 be intellectually honest with you that the answer to your
24 question is, yes, if there is no energy, then there'll be
25 no energy forecast and no energy bid. That's quite true.

1 But that's not the scenario that is -- we're confident
2 that's not the scenario we're going to experience. Did I
3 misunderstand the questions?

4 **MR. RATHLE:** No.

5 **MR. MacDOUGALL:** Just to clarify, based on
6 Paul's graphs earlier, in any event, regardless of that,
7 there will be the firm to average amount of 1.2.

8 **THE CHAIR:** Yes.

9 **MR. MacDOUGALL:** And then, as load grows,
10 planning will occur to an order to make sure that
11 Newfoundland and Labrador meets its firm needs, upon the
12 top of which will be the 1.2 firm to average spread.

13 **THE CHAIR:** Yeah. So what you're saying is
14 that scenario can't happen.

15 **MS. TOWER:** Maybe just to put a finer point
16 on it, if I may, we didn't talk about this during the
17 hearing, this particular concept.

18 **THE CHAIR:** Right.

19 **MR. RATHLE:** If we could look at -- I'm
20 looking at page 4 of the Nalcor presentation. I think
21 that's what you're referring to.

22 **THE CHAIR:** Go ahead with your question.

23 **MR. RATHLE:** Okay. Well, first, just the
24 straight line of the -- I guess you'd described -- the term
25 you used is "firm system capability," "hydro firm system

1 capability." Can you put a number on that? I know the
2 curves are not data, but the system capability, I would
3 think, is. Do we have a figure for that?

4 **THE CHAIR:** I don't think that we have that
5 data today, Philip.

6 **MR. RATHLE:** But it's basically existing
7 hydro capacity on the island and Muskrat Falls. Is that
8 the correct understanding?

9 **THE CHAIR:** Do you want to answer the
10 question, Greg? It might be easier.

11 **MR. JONES:** Yeah. Greg Jones. What's on
12 the firm generating capability in the province is the firm
13 generating capability of all resources in the province, on
14 the island and in Labrador. And in Labrador, of course, it
15 extends beyond Muskrat Falls into the Churchill project and
16 what we have available from that project as well.

17 **MR. RATHLE:** Right, okay. But it also
18 includes your thermal capabilities.

19 **MR. JONES:** No, we have no thermal
20 capability. This is a post ---

21 **MR. RATHLE:** Today you do, but ---

22 **MR. JONES:** This is a post-2017 project in
23 which Muskrat Falls is completed and Holyrood is
24 decommissioned. So there's no capability.

25 **MR. RATHLE:** Okay. In the event that, due

1 to load growth, those resources are inadequate to you, I
2 understand that the -- you know, the plan is to build
3 renewables, but given that those thermal -- that Holyrood,
4 in particular, exists, it's not inconceivable that it could
5 be called on to serve future load as well.

6 **MR. HUMPHRIES:** It's Paul Humphries here.
7 No, actually, Holyrood will be retired shortly after the
8 commissioning of the Maritime Link and Muskrat Falls, and a
9 little portion of it will be retained for synchronous
10 capability, but the generating capacity will be retired, so
11 that when we do have a requirement for additional firm, we
12 will build renewables and -- because of the nature of
13 renewable, there will be a variable content with that as
14 well, so it's important to point out that that 1.2 terawatt
15 hour variability above the firm line will actually increase
16 as we move forward and build new resource.

17 **MR. RATHLE:** I understand that's your
18 intention, but it's also conceivable that you will build
19 thermal resources in 2030. No one really knows. But let's
20 assume that it is renewable. This includes Muskrat Falls.
21 Now, my understanding is that there's a water management
22 agreement, which means that -- which changes very much the
23 surplus firm output of Muskrat Falls. Can you tell us what
24 you're attributing as firm and what as average with respect
25 to Muskrat Falls?

1 **THE CHAIR:** So, just before we ask for an
2 answer to the question about the water management
3 agreement, I think we need to reflect on the record,
4 Philip, that your suggestion that thermal generation is
5 possible in the future is directly contrary to what we've
6 heard today from Nalcor, who have said that they are going
7 to become an all-renewable system once Muskrat Falls is
8 connected and Holyrood is decommissioned.

9 **MR. RATHLE:** Right.

10 **THE CHAIR:** So we have a question about the
11 water management and how that might affect the output at
12 Muskrat Falls. Paul, can you help us with that? Or Greg?

13 **MR. HUMPHRIES:** Yes. Actually, water
14 management will not materially impact the firm to average
15 spread that we anticipate having post-2017.

16 **MR. RATHLE:** So the firm output of Muskrat
17 Falls with and without the water management agreement is
18 the same?

19 **MR. HUMPHRIES:** Yes. From an energy
20 perspective, yes.

21 **MR. RATHLE:** I would like more explanation
22 to that, but I don't know if we have time. I don't want to
23 impose on -- can you explain that a little bit
24 without -- why that would be the case?

25 **MR. HUMPHRIES:** No, I think that's beyond

1 the scope of this inquiry here right now.

2 **MR. RATHLE:** Okay. I think this is my last
3 question, which concerns the Emera variance in Section
4 7(E)i. Just let me get there. As I understand the
5 agreement, the hypothesis is that, in this scenario where
6 there is a variance, that Emera would have the obligation
7 to provide the energy, and assuming -- I know there's a
8 possibility it could be produced in Nova Scotia from wind
9 farms, but the other option, I imagine, is that Emera
10 provide that energy from markets elsewhere. Is that
11 the -- is that a correct understanding?

12 **THE CHAIR:** We've tried to create an
13 agreement where all options remain available to ensure that
14 that energy is available to Nova Scotia Power.

15 **MR. RATHLE:** Okay. But if the energy does
16 not come from either Newfoundland or Nova Scotia, it would
17 have to be imported over the New Brunswick intertie. Is
18 that correct?

19 **THE CHAIR:** Well, not necessarily. It could
20 still be imported over the Maritime Link, but go ahead with
21 your question.

22 **MR. RATHLE:** Okay. Well, my question is
23 if -- because I remember discussions in the hearings about
24 the capacity of the New Brunswick intertie, and my
25 understanding was that the imports -- the New Brunswick

1 imports that were in Figure 4-4 already essentially
2 occupied the available capacity. And so the question is if
3 you have confirmed that there is sufficient additional
4 capacity via the New Brunswick intertie to allow these
5 additional imports if there is a variance and if the way
6 that Emera chooses to meet it is with imports.

7 **THE CHAIR:** Mark, I'm not sure if you want
8 to answer that question. I guess what I heard in the
9 question -- and I'm not sure I followed it completely,
10 Philip, is -- so the scenario that's been created is that
11 Nalcor is not making the average 1.2 terawatt hours
12 available over the Maritime Link, which would mean that
13 there would be capacity over the Maritime Link. I'm not
14 sure that your recollection of the evidence about the use
15 of the New Brunswick tie is completely accurate, but there
16 will be -- because of the Maritime Link being connected,
17 there will be ability to import energy into the province
18 above and beyond whatever Nalcor is providing under this
19 agreement. But Mark, do you want to try to fill in the
20 gaps?

21 **MR. SIDEBOTTOM:** I think there are times
22 where the New Brunswick tie can offer energy and it wasn't
23 utilized. It was based on economic choices and the
24 modeling at the time. So it wasn't at 100 percent of its
25 capacity is my recollection from the modelling work.

1 **THE CHAIR:** That's my recollection as well,
2 Mark. Philip?

3 **MR. RATHLE:** Yeah. If I could just follow
4 up a little bit. In any given year, the available energy
5 offered by Nalcor can go as low as zero. Correct? There's
6 no four. The average is meant to be 1.2 terawatt hours.

7 **THE CHAIR:** Only theoretically, but
8 theoretically.

9 **MR. RATHLE:** Yeah. And so, assuming that
10 for a number of years it's below average, then I imagine
11 there's a balance that's accumulated that sort of indicates
12 how much cumulatively needs to be supplied. And I think
13 this is where the point came from earlier that it will only
14 be somewhere towards the end of the agreement that that
15 balance becomes -- could become large enough that one would
16 say, well, it's really not possible to meet it in the
17 future. Is that a correct understanding of the way that it
18 would be managed, the way it would develop?

19 **THE CHAIR:** Well, I think that that's what
20 we expect to be -- firstly, we don't expect that this will
21 happen, but if it were to happen, then that's a reasonable
22 view.

23 **MR. RATHLE:** Okay. That's all my questions.
24 Thank you very much.

25 **THE CHAIR:** Okay. Thank you, Philip. We

1 have a couple of other folks on the phone, I think. Pat
2 Bates. Mr. Bates, are you still with us?

3 **MR. BATES:** Yes, I am, Mr. Chairman. And
4 just a brief question, if I may, coming back to the federal
5 loan guarantee. There's a high level of interest in
6 Newfoundland, which I share, in the timing of a complete
7 project update of costs that's inclusive of both Muskrat
8 Falls and Maritime Link. There's an expectation that there
9 would be some bumpers available around the end of October.
10 Given that I understand the loan guarantee is capped, I'd
11 like to know if there is some plans for a relatively-soon
12 complete update of project costs inclusive of both
13 projects.

14 **THE CHAIR:** Our report on project costs is
15 due December 15th, Mr. Bates.

16 **MR. BATES:** Thank you, Mr. Chairman.

17 **THE CHAIR:** You're welcome. Someone is
18 using their phone and dialling a lot of buttons, which
19 we're getting a lot of feedback from, so if we could just
20 be careful about that.

21 Have I got anyone else on the phone that was
22 desiring to ask questions that hasn't had a chance?

23 **MR. LEVY:** Tom Levy with CANWea.

24 **THE CHAIR:** Tom. Did I ever go back to Paul
25 Chernick? Okay, so after Tom, we'll go to Paul. Sorry,

1 Paul. Tom?

2 **MR. LEVY:** I'd like to ask a question about
3 the eighty-seven thousand, six hundred dollars (\$87,600)
4 per megawatt, and I didn't quite understand the response.
5 I'm just wondering if we could just briefly go back to that
6 and provide a little bit more detail or more flesh on the
7 bones on that one.

8 **THE CHAIR:** Well, what Mr. Sidebottom said
9 was that it was a negotiated price between the parties,
10 that there's not a product presently on the market that
11 provides all of the elements of the balancing service that
12 would be provided in this case and that it is half of the
13 cost of wind integration costs that were assessed by the GE
14 study of Nova Scotia Power's wind system which was before
15 the Board. Those three points.

16 **MR. LEVY:** Okay. So the GE study made
17 reference to what integration costs? I was trying to find
18 those as well as -- once that reference to the GE study was
19 made. I couldn't quite locate them. Is someone able to
20 point me in the right direction on that?

21 **MR. SIDEBOTTOM:** I must say I don't have it
22 off the top of my head. I'll have to go back and find that
23 reference. But it's also provided in the Board ruling, as
24 I think there was forty-eight dollars (\$48) to sixty some
25 dollars wind integration costs were acknowledged in the

1 decision as well as outcome of the GE work.

2 **MR. LEVY:** If there's any way you can point
3 it sometime -- not now obviously if you don't have the
4 study in front of you -- to where in the GE study it speaks
5 to the integration costs, that would be very helpful. I'll
6 obviously continue to look myself.

7 **THE CHAIR:** Isn't the GE study about wind
8 integration? So maybe we're thinking of something more
9 general, and you're thinking of something very specific,
10 Tom, but ---

11 **MR. LEVY:** Yeah, I just -- I couldn't find
12 it, and I'm just trying to reference the integration costs
13 that were -- or trying to locate the integration costs that
14 the GE study itself discusses ---

15 **MR. SIDEBOTTOM:** We can maybe take that
16 offline and see what ---

17 **THE CHAIR:** Sure. Mark is willing to look
18 at it for you ---

19 **MR. LEVY:** Okay.

20 **THE CHAIR:** --- and we'll be in touch.

21 **MR. LEVY:** Lovely. Thank you, Mr. Chair.
22 Thank you. No more questions.

23 **THE CHAIR:** Thank you very much. Okay,
24 Paul. The energy in this room is really high right now.
25 Not. It's not. So we're going to turn it over to you to

1 see if you can perk us up.

2 **MR. CHERNICK:** Okay. I'll see if I can kick
3 it up a notch for you.

4 **THE CHAIR:** Okay.

5 **MR. CHERNICK:** Okay. The first question is
6 sort of a conceptual one about what you were trying to do
7 with the agreement. The Board condition referred to Nalcor
8 market-base-priced energy consistent with the assumption in
9 the application, and you know, in the application, there
10 were market-priced energy deliveries from both over the
11 Maritime Link and from the New Brunswick tie. Were you
12 trying to be consistent with the assumptions about the
13 market-priced energy in total or only with the deliveries
14 directly over the Maritime Link?

15 **THE CHAIR:** The agreement targets deliveries
16 over the Maritime Link.

17 **MR. CHERNICK:** Okay. So you see that as
18 being -- it's only tied to the assumptions about the
19 Maritime Link delivery in the application. I know that
20 you're assuming that it's going to be delivered by Nalcor,
21 but in terms of meeting the consistency requirement, you
22 see that as just requiring the -- matching up the
23 assumptions about imports from the east, not necessarily
24 from the west.

25 **THE CHAIR:** Well, we weren't going to try to

1 enter into an access agreement with Nalcor about energy
2 that was going to come over the New Brunswick tie, and so
3 we targeted the energy that was going to flow over the
4 Maritime Link. The energy that's going to flow over the
5 New Brunswick tie, I don't think there was any doubt that
6 that is available to us and will be available over that
7 tie, most of which was taken in off-peak hours.

8 **MR. CHERNICK:** Oh, and -- yeah, that would
9 be -- is there a breakdown in the record of the deliveries
10 by on and off-peak hours from Maritime Link and from the
11 tie, the New Brunswick tie?

12 **THE CHAIR:** We're kind of looking at each
13 other here, Paul. Mark, do you have any insight on ---

14 **MR. SIDEBOTTOM:** Unless the -- it would be
15 associated with the working papers, possibly with Figure
16 4-4. And I just can't recall if ---

17 **THE CHAIR:** So that would be in IR-37, the
18 data in that IR.

19 **MR. CHERNICK:** IR-37 doesn't break it down
20 by period. It sounded like you were familiar with that
21 breakdown.

22 **THE CHAIR:** Well, we understand that imports
23 over the New Brunswick tie will be, practically speaking,
24 off-peak imports. Mark?

25 **MR. SIDEBOTTOM:** So we are familiar with the

1 breakdown by year. Our underlying models would have about
2 two-thirds of the energy coming in in the off-peak hours
3 and one-third of the energy coming in in the peak hours.
4 Our models have that information. I just can't recall if
5 they're in one particular place in the filing. It's
6 definitely incorporated in the detail of the model runs and
7 the strategist's work.

8 **MR. CHERNICK:** Okay. And just to get clear,
9 the undertaking 3 shows 1.2 terawatt hours or a little bit
10 more of actual delivery of economy energy, not just offers
11 of economy energy. So are you saying that offering 1.2
12 terawatt hours is equivalent to -- is consistent with
13 actual delivery of 1.2 terawatt hours in the application?

14 **THE CHAIR:** What we're saying is that the
15 Board's condition was about insuring energy would be
16 available. It would be up to Nova Scotia Power whether to
17 take the energy at the price that's -- that shows up at the
18 time of those energy offerings. Wayne?

19 I'm sorry, I thought you were reaching for
20 your phone. Go ahead, Paul.

21 **MR. CHERNICK:** And this is sort of a little
22 follow up on what Nancy was getting into earlier, if the
23 Nalcor bid is priced under Section 4(C)() that is based on
24 some alternative use and NSPI declines that energy, that
25 quantity would still count towards the available energy

1 obligation is that correct?

2 **THE CHAIR:** Yes.

3 **MR. CHERNICK:** Okay. In Section 4(D)
4 there's some language about the timing of delivery and
5 Nalcor's option be interrupted and re-delivered. And I was
6 wondering is there a standard definition for "as soon as
7 commercially possible?"

8 Does that have to do with price, cost to
9 Nalcor or ---

10 **THE CHAIR:** I would say there's not a
11 standard definition of that phrase.

12 **MR. CHERNICK:** But what do you have in mind.

13 **THE CHAIR:** Mark?

14 **MR. SIDEBOTTOM:** I think what we'd be doing
15 is working closely with each other as soon as there is a
16 call for energy to be pulled away from the bid and knowing
17 that ultimately there's a backstop of one year.

18 But as soon as the two parties could come to
19 that agreement they would do that. I mean ultimately there
20 is more and more risk for Nalcor the closer that we get to
21 the 365th day because they are then reliant on making up
22 that equivalent value in a shorter period of time.

23 So you know again the intent is to expedite
24 the re-delivery within that timeframe.

25 **MR. CHERNICK:** But Nalcor could just

1 interrupt supplies for a week or two if they had a better
2 market temporarily and then sit down with NSPI and work out
3 a re-delivery schedule?

4 **MR. SIDEBOTTOM:** That's correct and what
5 that -- also comes with that decision to pull the energy
6 away is knowing they've got an obligation to provide the
7 equivalent value back to Nova Scotia.

8 So keeping Nova Scotia whole through the
9 transaction. And so that allows Nalcor to take advantage
10 of a premium market and at the same time keeping Nova
11 Scotia whole through that process.

12 **THE CHAIR:** And Mark, once it's scheduled
13 that day before basis?

14 **MR. SIDEBOTTOM:** Once it's scheduled on a
15 day before basis it goes down to simple force majeure.
16 There is no right to pull the energy away at that point?

17 **MR. CHERNICK:** Okay, in the alternative
18 pricing language in Section 4(C)(2) I'm -- I've been trying
19 to wrap my head about what would be required to demonstrate
20 the liquid trading node.

21 For example if -- there's obviously liquid
22 trading in New England and there's a market for renewable
23 energy credits and if the energy from Nalcor were eligible
24 for the credits under some future scheme would that
25 constitute a liquid trading node, the combination of the

1 existence of those two markets?

2 **MR. SIDEBOTTOM:** Nalcor has retained the
3 renewable attributes or the GHG credits associated with
4 that energy. And I would assume that they would partake in
5 the markets that those GHG credits would qualify them for.

6 So the actual energy that delivered to Nova
7 Scotia Power is an energy without a GHG credit. And
8 therefore it would look more like a traditional energy only
9 product that would be seen as a comparison.

10 **MR. CHERNICK:** No, I understand the
11 greenhouse gas credit being stripped out but in order to
12 get renewable energy credits in the New England markets for
13 example it's necessary to actually deliver energy to New
14 England and my question is if the -- what constitutes a
15 liquid trading node.

16 Would the New England market for RECs and
17 energy be sufficient? Could Nalcor just say look that
18 market exists and our energy is eligible for it now and we
19 want to price our power at the Mass hub plus the REC price
20 that our energy can get plus -- minus transmission charges?

21 Is that a sufficient demonstration that
22 there's a liquid trading node, just the fact that it
23 exists, that somebody trades those commodities?

24 **THE CHAIR:** We're trying to make sure that
25 we give you a full answer to your question, Paul, but I'm

1 not sure we can add much more to what we have said about
2 the way that this particular provision might work.

3 They're going to have to demonstrate to us
4 that they have an actual market at this alternate mode. I
5 mean we thought of it as the potential New York price. So
6 that ---

7 **MR. CHERNICK:** So supposing that ---

8 **THE CHAIR:** --- were to happen they'd have
9 to have a customer there. They'd have to have path and be
10 able to get it there. They'd have to deduct the
11 transmission costs from that price.

12 And then we'd have an opportunity to take it
13 at that price.

14 **MR. CHERNICK:** Okay, so when you say they
15 have to have a customer, I didn't see anything saying -- in
16 the agreement that said they would have to have a customer.
17 There would just have to be a market into which they had an
18 expectation of being able to sell.

19 **THE CHAIR:** Right. Presumably you don't
20 have an expectation to be able to sell unless you have
21 someone to be able to sell it to. But ----

22 **MR. CHERNICK:** Well ---

23 **THE CHAIR:** --- I take your point.

24 **MR. CHERNICK:** Okay. I mean what -- but are
25 you saying that you would -- that in your view

1 demonstrating that there's an opportunity requires that you
2 be able to name the counterparty who buy the power? Or is
3 it just sufficient to say well look there's active trading
4 of energy in New York?

5 And there's a hydro -- large hydro import
6 credit of thirty dollars (\$30) a megawatt hour that we'd be
7 eligible for and so there's our liquid node and we can get
8 the New York City price plus thirty dollars (\$30) minus
9 some transmission.

10 And if NSPI wants to buy at that price they
11 can and otherwise we'll sell it there. Is that -- I'm just
12 trying to figure out what it means to demonstrate the
13 opportunity that's all.

14 **MR. JANECA:** If I might just -- Rick Janega
15 -- I think you need to be able to demonstrate access to the
16 market that you're forecasting you would have the sale. So
17 Nalcor would have to be able to prove a route to market,
18 that they would be able to access and secure.

19 And that the market would be transparent.
20 Liquid markets generally are either traded or able to be
21 audited in some manner from that visibility. That would --
22 that was the intent of terms like that, it was being able
23 to demonstrate a path, demonstrate a market exists.

24 **MR. CHERNICK:** Okay, so it's just the fact
25 that there's a market. You don't need a customer. And the

1 other thing that confused me was that it said something
2 about a market available within one year, opportunities
3 within one year.

4 So is that a matching requirement that you
5 can -- if there's a market starting in July of next year
6 that you could start -- you could price for July based on
7 that alternative market but you couldn't price that way in
8 June.

9 It would have to be -- or is it that if
10 there's a market at any time during the contract year then
11 we can using this pricing formula?

12 **THE CHAIR:** Well the provision reads that
13 it's -- it has to be available to Nalcor at any time within
14 that year following the bid.

15 **MR. CHERNICK:** Okay. So if the market were
16 available for even one day during that contract year then
17 Nalcor could use that pricing formula for the entire year?

18 **MR. JANECA:** To the extent of that
19 opportunity.

20 **MR. CHERNICK:** Well that's another question.

21 **MR. JANECA:** Just for clarity ---

22 **MR. CHERNICK:** Yeah.

23 **MR. JANECA:** --- Paul, it would not -- it
24 would need to be demonstrated that they could attain that
25 market value through the two parameters mentioned earlier

1 that it would be a market price they could achieve for the
2 period that they had access.

3 So if they didn't have access but the market
4 prices were there then that price wouldn't apply for that
5 period and vice versa. If the market price wasn't there
6 when the path was there then that wouldn't be a match
7 either.

8 **MR. CHERNICK:** Okay so they could say look
9 we have this market off peak and we can charge this price
10 but on peak we have to use them as sub because we can't get
11 to this other market. Is that ---

12 **MR. JANEAGA:** That's the intent, yes.

13 **MR. CHERNICK:** Okay.

14 **MR. JANEAGA:** Yes.

15 **MR. CHERNICK:** Okay. That makes sense.

16 Now, in -- would Nalcor need to demonstrate that it can
17 sell all of its surplus into that market or just that it
18 can sell some of its surplus in to that market?

19 It says an opportunity. It doesn't say an
20 opportunity for all of the energy.

21 **MR. SIDEBOTTOM:** Yeah so it would be for as
22 much energy as they could get into the market. Not for all
23 of the energy. So if there was a ten megawatt opportunity
24 you can price 100 megawatts at that price.

25 It's a real amount of energy through a path

1 through time. And that would be the extent of the amount
2 of energy that would be priced because that would be the
3 real opportunity.

4 The intent here was that it is to reflect
5 real opportunities that Nalcor could avail itself of.

6 **MR. CHERNICK:** Okay. And then my last
7 question probably just has to do with my not looking back
8 at all of the other documents filed in the case. There was
9 a definition of the delivery point as being the delivery
10 point.

11 What's the delivery point?

12 **MR. SIDEBOTTOM:** Woodbine, Nova Scotia.

13 **MR. CHERNICK:** Okay, thank you. I think
14 that's all my questions for now.

15 **THE CHAIR:** Thanks Paul. I do -- in all
16 that conversation about the pricing mechanism I do remind
17 everyone that is -- those are maximum prices and not
18 necessarily the prices we will see.

19 The prices we will see can and we anticipate
20 at Nova Scotia Power and Emera will be lower than those
21 maximum prices. Nancy are you reaching for your mike?

22 **MS. RUBIN:** Just a quick follow up question
23 on that delivery point question. In the case of the Emera
24 variance amount it can be at any point in Nova Scotia. Why
25 is that and what does that do to pricing?

1 That's page 10() sub-section ---

2 **MS. TOWER:** Yeah, so the idea was for Emera
3 to be able to satisfy the condition by getting energy and
4 not be restricted to where that energy would come from.
5 Unlike Nalcor we don't have energy necessarily and so it
6 was to give some flexibility.

7 But the pricing -- the same rules apply to
8 Emera as they do to Nalcor in terms of the pricing.

9 **MS. RUBIN:** But does it affect the
10 transmission cost depending on where it's taken for NSPI
11 for line losses or anything?

12 **MS. TOWER:** So we have to bid in at the Mass
13 hub price or another price plus transmission but not on
14 cost so same rules. Those two clauses apply to Emera.

15 **THE CHAIR:** Are there other questions on the
16 phone?

17 **UNIDENTIFIED MALE:** No.

18 **THE CHAIR:** Other questions in the room? I
19 have one light on. Is that you Bruce?

20 **MR. OUTHUSE:** Rene, I just want to be clear
21 about first of all the forgivable events. While it's my
22 understanding the forgivable events apply to the forecast
23 and the bidding it's my understanding from clause 6(A) that
24 that does not affect the commitment by Emera and Nalcor to
25 the 1.2 terawatts per year on average over the term.

1 Is that correct?

2 **THE CHAIR:** Yes.

3 **MR. OUTHOUSE:** And that commitment is
4 subject only to 7(E), (I) and to force majeure events,
5 correct?

6 **THE CHAIR:** Yes.

7 **MR. OUTHOUSE:** And force majeure is not yet
8 defined in this contract?

9 **THE CHAIR:** That's right.

10 **MR. OUTHOUSE:** But it is defined for example
11 in the document dealing with the basic block?

12 **THE CHAIR:** Right.

13 **MR. OUTHOUSE:** Correct? And is it
14 anticipated that that force majeure clause will be like
15 that clause subject to necessary changes because of the
16 concepts in this agreement?

17 **THE CHAIR:** That's what we would expect.

18 **MR. OUTHOUSE:** And is it correct that under
19 that agreement even though there may be a force majeure the
20 effect of that force majeure unless the project is
21 ultimately abandoned is that the basic block is still to be
22 delivered at a later point in time?

23 **THE CHAIR:** Yeah. Yes.

24 **MR. OUTHOUSE:** So that concept would apply
25 to forgivable events as well? That the 1.2 terawatt hours

1 has to be delivered on average during the term of this
2 agreement?

3 **THE CHAIR:** Yes.

4 **MR. OUTHOUSE:** Okay. All right.

5 **MR. MACDOUGALL:** Outside of force majeure
6 subject to the force majeure clause ---

7 **MR. OUTHOUSE:** Well ---

8 **MR. MACDOUGALL:** --- as stated in seven.

9 **MR. OUTHOUSE:** But force majeure could delay
10 it and there is an aspect of the force majeure if there's
11 an ultimate failure of the project. But otherwise force
12 majeure events create delays not absolute relief and
13 obligation?

14 **THE CHAIR:** Oh, I was following you until
15 the last question Bruce and then ---

16 **MR. OUTHOUSE:** Pardon?

17 **THE CHAIR:** You lost me on your last
18 question. I wasn't making the connection you were trying
19 to make. No, that's not -- that's actually not how it
20 works with the Energy Access Agreement because it's about
21 availability.

22 If there's a force majeure the energy
23 wouldn't be available so it doesn't just delay the delivery
24 of energy if there's a force majeure.

25 **MR. OUTHOUSE:** Well I guess I'll go back to

1 my original question, it's a force majeure clause such as
2 we find in the basic agreement for the block?

3 **THE CHAIR:** Yeah I -- so -- but you also
4 said subject to being amended to and be -- in accordance
5 with this -- the terms and conditions of this agreement.
6 So that's the detail that needs to be negotiated as how
7 exactly will that operate.

8 Will it be exactly the same as in the other
9 agreements, it could be but not likely because this is
10 economy energy interruptible energy.

11 **MR. OUTHOUSE:** I don't have the agreement in
12 front of me but force majeure is fairly broadly defined in
13 the original agreements. That definition would be
14 acceptable because in lots of those force majeure events
15 there's still to be delivery as I understand it of the
16 basic block, notwithstanding the force majeure over time.

17 Force majeure may last for two weeks, a year
18 but ultimately there was to be delivery of basic block in
19 most events other than if the project failed in effect?

20 **THE CHAIR:** Yeah. And the basic block's
21 firm power that we're paying for ---

22 **MR. MACDOUGALL:** Yeah. Sorry I was just
23 going to say that provision is in that agreement because
24 that's pre-paid for energy which must be delivered. That
25 concept isn't being carried over into this agreement.

1 So Bruce you were talking about the force
2 majeure event. The force majeure events may be similar.
3 Circumstances, what will happen during force majeure are
4 not. This clause is subject to force majeure.

5 It's not the same principle. It's a total
6 -- this is excess surplus energy and this is not a purchase
7 commitment such as the Nova Scotia block.

8 **MR. OUTHUSE:** So the effect would be then
9 that that energy would not -- the 1.2 would not ultimately
10 deliver -- be delivered in the event of force majeure
11 events?

12 **THE CHAIR:** It could interrupt that -- yes,
13 it could interrupt that ---

14 **MR. OUTHUSE:** Not only interrupt, it might
15 mean the average wasn't met?

16 **THE CHAIR:** Yes, that's correct.

17 **MR. OUTHUSE:** All right.

18 **THE CHAIR:** Other questions? We are pushing
19 the Westin's time period and I want to stay here as long as
20 I can but pretty soon I'm not going to be able to stay.

21 **MR. MAHODY:** Rene, just two follow up
22 questions. In relation to sunk transmission there's a
23 definition in the agreement that it means Nalcor's long
24 term transmission reservations.

25 Was there any consideration given to what

1 was representing long term?

2 **MR. SIDEBOTTOM:** Long term under tariff is
3 typically one year or more of commitments.

4 **MR. MAHODY:** And on a related point that had
5 arisen earlier regarding the term of the agreement you had
6 on your screen earlier Rene paragraph 228 of the Board's
7 Decision.

8 **THE CHAIR:** Yes.

9 **MR. MAHODY:** A couple of paragraphs before
10 that in 226 the Board said:
11 "The Board will impose the condition relative to the
12 availability of market priced energy over the thirty-five
13 year term."

14 Is it your position that that -- you weren't
15 seeking to fill a thirty-five year term? The twenty-four
16 still fulfills that condition?

17 **THE CHAIR:** I think what we would say is
18 that after 2041 the market price energy will be available
19 and I think the Board said that as well. The term of the
20 original contracts, the formal agreement says the thirty-
21 five year term and I think the Board appropriately used
22 that reference for thirty-five years.

23 We believe that market priced energy will be
24 available in the volumes needed to serve Nova Scotia Power
25 through this agreement plus the energy that's going to be

1 available in the market after 2041 for the rest of the
2 thirty-five years.

3 **MR. MAHODY:** But beyond that belief in what
4 we have in the agreement that's been signed there's nothing
5 that runs beyond -- to take us from year 2040, year thirty-
6 five is there?

7 **THE CHAIR:** No, that's right. The agreement
8 ends in 2041 and nothing that takes us to the rest of the
9 thirty-five year period but it's -- I mean the Board's --
10 the Board has concluded that energy will be available after
11 that time. Bruce?

12 **MR. OUTHUSE:** Rene, if nobody else has a
13 question I do and it's really for NSPI. The -- this
14 agreement contemplates the possibility of either front-
15 ending or back-loading the average.

16 And I'm wondering what impact that has on
17 NSPI's ability to get the same value out of the surplus
18 energy purchases as was contemplated in the low load case
19 in U(3)?

20 **MR. SIDEBOTTOM:** So there's an ability to
21 have access up to 1.8 gigawatts a year, not unlike our
22 hydro systems we would use an average through time and most
23 intermittent resources are best estimated using that
24 methodology, Bruce.

25 So those are -- give us comfort that it's a

1 very reasonable ability that we'll get the same value or
2 very equivalent value. It might come in different years.
3 In the years where there's excess or more energy available
4 market pressures will also provide more opportunity on the
5 pricing which is not reflected.

6 So there's a number of factors that also
7 allow us to see that there'd be benefits when there's
8 excess energy. And there'd be years when there'd be
9 shortfalls and we'd find other options internally.

10 **MR. OUTHUSE:** Mr. Sidebottom just to -- in
11 more general terms, is it NSPI's position that this
12 agreement gives them sufficient flexibility to solicit and
13 utilize this energy as it was contemplated at the time when
14 you were in the original application and purchasing surplus
15 energy?

16 **MR. SIDEBOTTOM:** Yes, it does.

17 **THE CHAIR:** Okay. It looks like we've run
18 out of steam or energy. We're not supposed to run out of
19 energy, right Paul?

20 **MR. CHERNICK:** Right.

21 **THE CHAIR:** But we're done for the day I
22 think which is just in time before the Westin marches us
23 out of here. I almost would have had to ask you to take a
24 chair with you for them. Anyway thanks very much for being
25 here this afternoon and for your questions. Very

1 thoughtful.

2 I hope we were able to give you some answers
3 that were helpful to you in preparing for the hearing next
4 week. I do want to remind you that this has been recorded
5 and we will transcribe it -- have it transcribed overnight
6 and I will make sure it's available to everyone in the
7 morning so you have a record of it.

8 Thanks very much.

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10 --- Upon concluding at 3:55 p.m.

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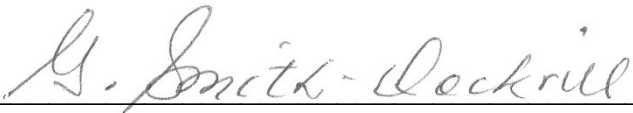
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CERTIFICATE OF COURT TRANSCRIBERS

We, Gwenyth Smith-Dockrill, Janine Seymour, Diana Saxby and Sandra Adam, Court Transcribers, hereby certify that we have transcribed the foregoing and it is a true and accurate transcript of the evidence given **MARITIME LINK COMPLIANCE FILING - TECHNICAL CONFERENCE**, taken by way of electronic recording on Monday, October 28, 2013.

A handwritten signature in cursive script, reading "G. Smith-Dockrill", is written over a horizontal line.

Gwenyth Smith-Dockrill

Court Transcriber, Reg. No. 2006-45

Halifax, Nova Scotia

Tuesday, October 29, 2013