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YUKON UTILITIES BOARD

YUKON ENERGY CORPORATION
WHITEHORSE DIESEL TO LIQUEFIED NATURAL GAS
CONVERSION PROJECT (LNG PROJECT)

COMMUNITY SESSION

March 31, 2014
Whitehorse, Yukon

1 Proceedings taken at the Westmark Whitehorse Hotel &
 2 Conference Center, 201 Wood Street, Whitehorse, Yukon.

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4 March 31, 2014

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Mr. B. McLennan	Chair
Mr. R. Laking	Vice-chair
Mr. N. Prasad	Board Member
Mr. A. Fortin	Board Member
Mr. R. (Les) Boisvert	Board Member

9

Ms. G. Bentivegna	Board Counsel
Ms. D. Lemke	Executive Secretary, Yukon Utilities Board

10

Ms. C. Henry	Hearing Officer
Mr. D. Ward	Board Staff
Mr. B. Clarke	Board Staff

12

Ms. A. Jones, CSR(A)	Official Court Reporter
Ms. D. Gerbrandt, CSR(A)	Official Court Reporter

14

Gordon Gilgan
 Skeeter Wright
 Sally Wright
 Rob Lewis
 Aubin Tuzlak
 Heather Ashthorn
 Werner Rhein
 Theo Stad
 Lois Johnston
 Maryanne Lewis
 Jennifer Line
 Mary Amerongen
 Cam Kos
 Ken de la Barre
 Jacqueline Vigneaux
 Gary Bemis
 Colleen James
 Bob Jickling

24 _____

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1 THE CHAIR: I'm going to call this
2 community meeting to order. My name is Bruce McLennan, and
3 I'm chair of the Yukon Utilities Board, and I would like to
4 introduce the Board members sitting on the Panel.

5 To my left are fellow Board members
6 Naresh Prasad; Bob Laking, who is the vice-chair; and to my
7 right are Les Boisvert and Andre Fortin. So on behalf of my
8 colleagues I would like to make a very brief opening
9 statement.

10 This morning we began the public hearing phase
11 of the Yukon Energy Corporation's (YEC) application for an
12 energy project certificate and an energy operations
13 certificate for the Whitehorse Diesel to Liquefied Natural
14 Gas Conversion Project, also known as the LNG Project.

15 These certificates are applied for under
16 Part 3 of the *Public Utilities Act* and have been referred to
17 the Yukon Utilities Board to review and hearing in accordance
18 with the terms of reference presented by the Minister of
19 Justice in his letter of December 18th, 2013.

20 At the end of the hearing, the Board is to
21 provide a recommendation to the Minister on whether the
22 energy project and energy operations certificates should be
23 granted for the LNG Projects, whether the certificates should
24 be subject to any terms and conditions, and it is also to
25 make any other recommendations or provide any other

1 information that it considers advisable in the circumstances.

2 This evening's community session will allow
3 individuals who are not registered parties to present
4 information that may inform the registered parties and the
5 Board of issues that may not have been considered in their
6 formal submission. Your comments will be transcribed, and
7 the transcripts will become public documents. These
8 transcripts will be posted on the Yukon Public Utilities
9 website. What we hear tonight will be taken into
10 consideration in making our recommendation to the minister.

11 As outlined in the community session
12 guidelines that were prepared and distributed prior to the
13 hearing and are available at the registration desk, your oral
14 statement should be related to the Minister's terms of
15 reference of the matter before the Board which may be found
16 on the Board's website.

17 More particularly, they should address: (a)
18 the public need for the project under reasonable electrical
19 load forecasts; (b) the capability of currently available
20 generation facilities to meet forecast load requirements; (c)
21 the risks facing the project and their effect on customer
22 rates; (d) any alternatives to the project, given reasonable
23 load and risk assessments; and finally (e), whether it is
24 prudent to build the LNG Project at this time.

25 The community session guidelines outline the

1 rules for the presenters. You should refer to those
2 guidelines, but I would like to remind you of a few of the
3 more important rules.

4 Presenters will be called in the order they
5 have registered. And Ms. Bentivegna, who is Board counsel,
6 will do the calling of the registrants. Please start your
7 presentation by stating your name.

8 Registered presenters will have up to ten
9 minutes to make their statements. You will be advised after
10 about nine minutes that you have one minute left to complete
11 your presentation. No visual aids are permitted.

12 If a Yukon Utilities Board member requires
13 clarification regarding a presentation, they will wait and
14 ask for that clarification at the end of your presentation.

15 There will be no questions taken from the
16 floor. The applicant and other registered parties who might
17 be observing this community session will neither take or ask
18 questions, nor will they provide comment at tonight's
19 session. If they wish to address points raised this evening,
20 they will be able to do so in the formal hearing, which
21 reconvenes tomorrow. If they do so, those matters will
22 appear in the transcripts.

23 This session will conclude at 10 p.m. at the
24 latest. If anyone is speaking at that time, they will be
25 allowed to complete his or her statement.

1 There are to be no comments from the floor
2 during an individual's presentation.

3 If you don't want to make an oral statement,
4 you can still make a written submission, but it must be
5 received by midnight tonight.

6 We will take a break in between. I had
7 planned to take a break at about 8:20, 8:30 for 15 minutes,
8 but there is an interpreter, who we didn't realize was going
9 to be here tonight, and she has asked if we could take a
10 five-minute break after every hour. So I will try to
11 accommodate that. So we will take a break at 8, 9; and she
12 should be fine until the end of the session.

13 If you have a cellphone, I would ask you to
14 turn it off or place it on mute.

15 And with that I would ask the first registered
16 presenter to approach the microphone and make the statement.
17 And you can use the microphone or you can make your
18 presentation from that table.

19 So I'll get Ms. Bentivegna to call the first
20 speaker.

21 MS. BENTIVEGNA: Mr. Gordon Gilgan.

22 MR. GILGAN: Good evening. My name is
23 Gordon Gilgan. I'm a resident of Whitehorse, Yukon.

24 Firstly, let me thank you for the opportunity
25 to address you on the matter of the Yukon Energy Corporation

1 proposal to purchase two liquid natural gas generators to
2 replace two diesel generators that the Yukon Energy
3 Corporation has decided has completed their useful life.

4 By way of introduction, I've lived in the
5 Yukon for 13 years. I'm retired from regular employment, but
6 I still work as a consultant. I'm a biologist. I have two
7 degrees in science and a doctorate in higher education.

8 I'm appearing before you tonight because I am
9 an energy consumer and I'm a shareholder in Yukon Energy
10 Corporation.

11 I am concerned about their proposal to
12 introduce liquid natural gas into the fossil fuel energy
13 mixture of the Yukon. I recognize that the Yukon Utilities
14 Board is one of the checks and balances to ensure that public
15 utilities such as Yukon Energy Corporation operates in my
16 best interest.

17 I'm concerned that the Yukon government is
18 prepared to borrow \$39.2 million to enable Yukon Energy
19 Corporation to purchase these generators and the
20 infrastructure necessary to bring liquid natural gas into the
21 Yukon.

22 I was told by Yukon Energy Corporation in a
23 public meeting that this purchase and operation will reduce
24 emissions from the current generators based on analysis of
25 several consultants that the corporation presented as being

1 independent.

2 In a subsequent discussion with the
3 consultants, they admitted that if the corporation had used
4 current scientific information that was readily available to
5 them, they would not have made such a claim as they know it
6 is not the truth.

7 In spite of this admission, Yukon Energy
8 Corporation continues to claim that liquid natural gas is a
9 cleaner fuel than the diesel currently used for power
10 generation.

11 It's important to recognize that the
12 electrical generation we're talking about is for the backup
13 of the hydro generation capacity of Yukon Energy Corporation.
14 In the past year, according to Yukon Energy Corporation
15 website energy consumption calculated that I was looking at,
16 we used 425.7 gigawatt hours of electricity generated by
17 hydro and an additional 2.11 gigawatt hours generated by
18 back-up diesel. That is less than half of 1 percent of the
19 total electricity consumed that is generated by these backup
20 diesel generators.

21 You may think that this year that has just
22 passed is an outlier, but the information provided by the
23 corporation -- to the corporation by the InterGroup
24 consultant in March of 2011 indicated that diesel generated
25 2.7 gigawatt hours of electricity in 2010. So what it

1 indicates to me, and I don't have all of the historical
2 background, that in fact that it is not uncommon to have in
3 the order of 2 to 3 gigawatt hours of backup generation for
4 the hydro generation that is required.

5 So why is this important? It's because Yukon
6 Energy Corporation repeatedly in public meetings claimed that
7 there would be significant savings by using liquid natural
8 gas for backup instead of diesel. The claim made was that in
9 2015 this would save \$2.7 million a year and by 2017 this
10 would rise to \$4.2 million per year.

11 Now, I might have forgotten about this, even
12 though I was pretty skeptical at the time, but it keeps being
13 repeated in Yukon government press releases where they quote
14 the Yukon Energy Corporation Chair Piers McDonald, and this
15 is the quotation: (as read)

16 "The backup diesel generators have
17 reached the end of their lives. By
18 replacing them with natural gas, we
19 expect to save Yukoners \$4.2 million
20 each year by 2017."

21 It seems to me to be a pretty good trick if you can replace
22 diesel, which in 2010 cost less than a million dollars, with
23 liquid natural gas at any price and save \$2.7 million a year,
24 particularly in the first year of the operation of this
25 proposal. An even better trick, of course, is to save \$4.2

1 million two years later in 2017.

2 Arriving at a price for liquid natural gas
3 delivered in Whitehorse is also very difficult. There is a
4 spot price for oil, for gasoline, for diesel, and for natural
5 gas, but there is no spot price for liquid natural gas. And
6 why is that? That is because there's currently no liquid
7 natural gas available, and yet we're told by Yukon Energy
8 Corporation that they will have these generators and the
9 infrastructure to support them in place and operational by
10 the end of this year.

11 To begin to understand why I'm skeptical about
12 the information provided by the Yukon Energy Corporation:
13 The prices that have been put forward by consultants range
14 from 6 to 7 cents per kilowatt hour if they supplied natural
15 gas from the Alaska Highway pipeline, which looks like it
16 will never happen, to a potential cost of 15 to 20 cents per
17 kilowatt hour that seems to have been drawn from thin air. I
18 couldn't find in the consultants' proposals anything that
19 actually substantiated that.

20 The price for diesel on the other hand seems
21 to be readily available. As I mentioned, it's available at
22 spot prices, and it's also fairly consistent from 2010 until
23 now at 24 to 26 cents per kilowatt hour.

24 According to my calculation, the liquid
25 natural gas generators would have to generate 33.14 gigawatt

1 hours of electricity in 2015 in order to give a fuel saving
2 of \$2.7 million, which is more than ten times the amount of
3 energy generated by backup generators in the past few years.
4 In order to meet the magic savings claimed by 2017, the
5 backup generators would have to generate 51.55 gigawatt
6 hours.

7 It's this game played by Yukon Energy
8 Corporation where it has become difficult, if not impossible,
9 to either believe or have any confidence in the numbers they
10 publish and keep repeating.

11 At the public meetings we're told that liquid
12 natural gas would come from Calgary. The consultants reports
13 that were used in providing their initial presentations based
14 their prices on delivery from the Alaska Highway pipeline, as
15 I mentioned earlier, from Kitimat, and from Fort Nelson. It
16 seems that the source of liquid natural gas keeps shifting
17 and may or may not be available.

18 I'm beginning to wonder if this whole scheme
19 is not really a pipe dream. I believe that all this chasing
20 of liquid natural gas has been a waste of time and my money
21 on the part of the Yukon Energy Corporation. They should
22 have been spending this time and money searching for
23 genuinely renewable means of replacing the capacity for the
24 aging generators.

25 There's considerable evidence that by

1 installing a smart grid to regulate the consumption of power
2 and to install wind and solar alternatives providing
3 increased capacity, this could be a transition from fossil
4 fuels, which the proposal before you is not. It is simply
5 replacing one fossil fuel with another with no guarantee that
6 it will provide either a benefit to the environment or to us
7 as taxpayers and electricity consumers.

8 In conclusion, then, I am urging the Yukon
9 Utilities Board to reject this proposal and send it back to
10 the Yukon Energy Corporation with direction that they must
11 find a better environmental solution than the one proposed.
12 All of us as citizens, the Yukon Energy Corporation, and the
13 Yukon Utilities Board have a moral obligation to the global
14 context we live in to prevent this project which will shackle
15 us to fossil fuels for at least another 20 years. The time
16 to begin the change is now.

17 THE CHAIR: Thank you very much,
18 Mr. Gilgan, and thank you for staying on time.

19 MS. BENTIVEGNA: Now, I'll call Mr. Skeeter
20 Wright.

21 MR. WRIGHT: My name is Skeeter Wright.

22 The terms of reference I found differ somewhat
23 from the ones that we just heard, so I'm going to have to, on
24 the wing, adjust my comments to what appear to be the correct
25 terms of reference.

1 I will be speaking to two of them that you
2 mentioned, which are the risks and effects on rates and
3 alternatives to the project.

4 One of the potential monetary benefits --
5 potential monetary benefits are one of the things that I did
6 consider on this project, and when I considered all the
7 information available I found that the only significant
8 benefit would be some short-term contracts for some local
9 Yukon contractors. Other than that, that was the only
10 monetary benefit.

11 Potential costs, there's a lot of information
12 that differs from that provided by the Yukon Energy
13 Corporation as to the cost of changing power generation fuel
14 from diesel to LNG. According to the Energy Corporation, LNG
15 is less expensive than diesel. However, when one considers
16 that the cost of LNG has already risen significantly
17 elsewhere in Canada, coupled with information being provided
18 by stock market analysts, one comes to the conclusion LNG has
19 and will continue to increase greatly in price.

20 Consumer price of gas has recently increased
21 in Ontario by 40 percent and elsewhere by 28 percent. And
22 according to the analysts, costs are expected to continue not
23 only to increase but to increase -- that the rate of increase
24 to increase.

25 Now, case in point, we've got Kootenay Capital

1 stock market analysts wrote that the Asian market will cause
2 a significant price change for gas in North America. There's
3 also a well-established gas operator that is notoriously
4 cheap, and one of the industry's most fiscally conservative,
5 the Canadian Natural Resources Limited in Calgary, and they
6 just bought \$3 billion of gas. That's "B" as in "big."

7 Given that company's reputation, the purchase
8 is a clear indication of where they think the price of gas is
9 going. They're willing to place \$3 billion on ice and forego
10 other investments so they can benefit from a major gas
11 increase.

12 And the increases are due not just to local
13 but also to the international market expectations. And just
14 for the case in point, we just ignore the Russian, Ukraine
15 and Europe gas scenario, no matter how that plays out.

16 Now, I must apologize for the limited
17 citations that I can make use of, but my research was
18 curtailed when I found out a much more researched and cited
19 intervention was being made by one of the interveners at your
20 hearings.

21 Now, as to potential risks to the rates, I
22 only will speak about the risk of the direct consumer costs,
23 and now the -- if there is an increase, which is certainly
24 expected to gas, the consumer is the one that's going to pay
25 for it, is going to have to pick up the slack. It's not

1 going to be to the energy provider; in this case, the Energy
2 Corporation.

3 Now, as to alternatives, the recent, and for
4 some time now the expected, price of gas far surpasses any
5 anticipated increase in diesel costs. Therefore, diesel
6 costs -- diesel will be a preferred alternative to this
7 project.

8 Now, the consumer impacts -- impacts on the
9 consumer as to price, is or can be tied also to another
10 matter of gas production; the production, transportation, and
11 the use of, which is methane released.

12 Now, one of the things that bothers me greatly
13 is that information provided by the Energy Corporation, by
14 two of their contractors, indicated that the lifecycle of
15 diesel production and consumption, the lifecycle downside of
16 diesel is much less than that of liquified natural gas.

17 However, at that same presentation, I provided
18 a peer-reviewed report -- as compared to a contracted report
19 by the Energy Corporation -- I provided a peer-reviewed
20 report that was published in the proceedings of the National
21 Academy of Scientists that came to just not only the opposite
22 conclusion, but a few orders of magnitude opposite
23 conclusion. The report indicated that the lifecycle analysis
24 of LNG versus diesel production and use is the LNG production
25 massively exceeds the effect on greenhouse gases and the

1 related costs.

2 Now, the idea that I'm mentioning, methane, is
3 because at this point we're going to start paying for climate
4 change in a much more dramatic way than we have to date, and
5 this project would bring Yukoners' use of energy into not
6 only contributing to climate change, but contributing in a
7 massively greater way than would be if they were only using
8 diesel.

9 Thank you.

10 THE CHAIR: Thank you very much,
11 Mr. Wright.

12 MS. BENTIVEGNA: Ms. Sally Wright.

13 MS. WRIGHT: My name is Sally Wright. The
14 last time I was before the YUB I was begging to be heard.
15 I'm back again to firstly thank you, the YUB, for using its
16 discretion and scheduling this public session for this
17 pivotal moment in the Yukon's energy future.

18 I am here to defend our environment from
19 corporate greed. In my way of thinking, the YUB, as
20 regulator of this particular industry, are the law that will
21 make sure this project is fair and that it will benefit all.

22 I'm also here as a customer on our electrical
23 grid. I do not want to see the source of my electrical needs
24 to come from natural gas. I strongly feel that YEC should
25 only pursue renewable energy to increase its capacity on the

1 grid.

2 I do not dispute that YEC needs diesel to meet
3 emergency demands and peaking requirements at this time. I
4 strongly disagree with the LNG Project being built out to
5 cover periods of drought.

6 Any problems with drought should be dealt with
7 with incremental increase in renewable energy, and since the
8 present grid is highly dependent on hydro, it is time for
9 Yukon Energy to diversify and pursue wind energy in
10 combination with load management, a smarter grid using
11 demand-side storage.

12 As a close observer of YEC for the past
13 18 years, the most alarming theme in the past 10 years is
14 YEC's neglect of its wind energy program. Yukon Energy used
15 to be a leader in northern wind development. The last
16 10 years YEC has systematically ignored, withheld
17 information, and miscommunicated the opportunity of wind
18 energy time and time again.

19 In the summer of 2008, YEC put out an RFP for
20 a feasibility study on a potential wind farm on Mt. Sumanik
21 to the west of Whitehorse. The report was produced by AECOM
22 and delivered to YEC in February 2009. It was called the
23 Mt. Sumanik Wind Assessment Feasibility Study. It was a
24 favourable wind study for Sumanik. 20 megawatts would
25 produce 54 gigawatt hours at \$72 million, or 47 gigawatts at

1 \$76 million, with blade heating technology. But we never got
2 to see these promising numbers until it was atipped
3 (phonetic) I believe three years later, in May of 2012, and
4 it was produced heavily redacted.

5 This report was withheld from the YUB for the
6 Mayo B Part 3 hearing, and as detailed in my complaint to the
7 YUB on November the 28th, 2012, I described how YEC CEO
8 Mr. David Morrison misled the YUB at the oral hearing for
9 Mayo B in April 2010. In the transcript, Volume 2, on April
10 the 7th, 2010, page 279, line 3 to 8, when asked to produce
11 the Mt. Sumanik Wind Assessment Feasibility Study
12 Mr. Morrison claimed that YEC "got the Sumanik report in the
13 latter part of 2009, and it might even have been 2010."
14 Mr. Morrison was quite certain and didn't even offer to
15 check.

16 In this proceeding, once again YEC is
17 suppressing the complete Sumanik study in their answer to
18 IR request YCS/LE-YEC-1-59(c), YEC would not share the whole
19 unredacted study.

20 This is a problem when you guys are supposed
21 to be looking at the alternatives to this project when all
22 the information is not being properly shared. But in this
23 particular case there is -- YEC no longer has the right to
24 withhold this information from the Yukon public because in
25 Hansard last year, on May the 14th, 2013, MLA Ms. --

1 David Morrison was in the legislature doing a report to the
2 legislature, and Ms. Kate White asked, and I have the
3 reference here on page 2,936 of the Hansard, Ms. White asked:
4 (as read)

5 "Will YEC agree to disclose in full the
6 complete unredacted feasibility study,
7 and if not, why not?"

8 Within his answer, Mr. Morrison said, "I'm not unhappy to
9 give the study to individuals who want it now," in reference
10 to the Sumanik study. He used a double negative, but, in my
11 words, he is happy to give the study to individuals at this
12 moment in time.

13 I urge the YUB to demand YEC to produce the
14 full unredacted wind study so we can all see what needs to be
15 done to move forward to a more promising future.

16 The 2011 resource plan that YEC likes to refer
17 to as the guiding document for all its planning is a cooked
18 document for LNG. I was involved in the Charrette process,
19 and it was, quite simply, a charade. My conclusions to that
20 effect are well known to the CEO of YEC and many in civil
21 society and most of the Yukon public who read the local
22 papers.

23 The two Yukon wind experts were unable to
24 attend the 2011 Charrette, and, as far as I can see, their
25 submitted contributions were never shared in the final

1 Charrette report, as was my comments that followed up to that
2 report.

3 I am here seeking justice, justice for the
4 protection of the common good. Without clean water, we all
5 die. Without a predictable climate, many will suffer. As
6 long as a few are winning, the most are suffering and losing.

7 Our children are losing hope. We need to make
8 the right decisions for their future. This project is not
9 the right decision.

10 Thank you.

11 THE CHAIR: Thank you, Ms. Wright.

12 MS. BENTIVEGNA: Mr. Rob Lewis.

13 MR. LEWIS: Hi. My name is Rob Lewis. I'm
14 a resident of Whitehorse and Tagish. I pay electrical rates
15 in both areas.

16 I want to again thank the Board for allowing
17 us to speak. A lot of what I was going to say has already
18 been said by the previous speakers, but I want to reiterate
19 again the need to look at what's happening globally with
20 climate change and relate that to the use of LNG here in the
21 Yukon. I don't think that we can separate the two out.

22 Energy projects need to be assessed in
23 relation to climate change. And LNG can't be separated from
24 its full lifecycle, which includes fracing, which, in my
25 opinion, will only degrade our water in the Yukon.

1 Now, as a fuel for backup generation, LNG
2 makes no sense to me at all. Comparing it to diesel, which I
3 consider a stable fuel, LNG is the opposite. Diesel can sit
4 in a tank for up to a year, probably more, and be used when
5 it's needed. LNG is a volatile liquid. It has to be used in
6 a short period of time. So to bring it up and use it for a
7 backup fuel makes no sense.

8 Apart from being unstable, it's also dangerous
9 to handle at minus 162 degrees. It makes it very susceptible
10 to injury if not handled properly.

11 I have concerns as well as to the location of
12 the proposed project. I think it's been chosen for a cost
13 basis, not a safety one. I attended a YESAB hearing and I
14 listened to the experts brought up by YESAB from AECOM, and
15 after listening to what they said, all I can think of is that
16 this would be a ticking time bomb.

17 Ms. Chan said that LNG will explode given the
18 right conditions, and the trucking expert from Texas said
19 that the trucks that would bring the LNG are inherently
20 unstable, and they don't do well on outside bends, which the
21 south access is. So I have great concerns about where this
22 plant would be located if it is located.

23 I don't believe the switch from diesel to LNG
24 is in the public interest.

25 Now, while I can't support that, I can support

1 a move to renewables. Like Sally just mentioned,
2 Yukon Energy needs to be directed to move into wind
3 generation. I would also support this Board recommending
4 that the aging diesels be replaced with diesel generators.

5 I would also support the building of the
6 transmission line to Skagway so that there could be a sharing
7 of power between the two countries. By building that, it
8 would open up numerous small micro hydro projects that would
9 just add to the Yukon grid.

10 And basically that's all I have to say, and I
11 thank you again for opening it up to the public.

12 THE CHAIR: Thank you very much, Mr. Lewis.

13 MS. BENTIVEGNA: Mr. Aubin Tuzlak.

14 MR. TUZLAK: Hello. My name is
15 Aubin Tuzlak, and I'm just going to keep my talk really short
16 and simple to voice my opinion. I have been using power
17 like -- well, since I've been young I've been using the power
18 here, and I recently started paying bills myself. And I
19 guess I've been quite interested in the way that power can be
20 generated alternatively, and I see a lot of possibilities
21 where sometimes the proponents for liquid natural gas or
22 otherwise, like short-term kind of Band-Aid solutions that I
23 see them, don't seem to see them.

24 But I guess basically what I want to say is
25 that I'm not really supportive of this move towards liquid

1 natural gas because it could potentially -- well, it doesn't
2 really provide a viable option for the future in the sense
3 that there is -- it's just like another Band-Aid solution.

4 There is no proof that the prices on liquid
5 natural gas will stay low as -- making it that money
6 saving -- bringing that money-saving benefit into the
7 equation. And also facing being destructive for the
8 environment. It's not going to help.

9 And so if we have this money now and this
10 opportunity to change the way that we do things, then we
11 should probably move in that direction. So it could be
12 anything from wind power to all the other options available
13 out there, but that's all I want to say.

14 THE CHAIR: Thank you very much.

15 Mr. Tuzlak.

16 MS. BENTIVEGNA: Ms. Heather Ashthorn.

17 THE CHAIR: Is there a Heather Ashthorn
18 here?

19 Okay. Why don't we just move on.

20 MS. BENTIVEGNA: Okay. Mr. Werner Rhein.

21 MR. RHEIN: I want to thank you for the
22 opportunity to make a comment. My name is Werner Rhein. I
23 lived at Mt. Lorne for 29 years. It's my second home in my
24 life. I want to be it that way for as long as I live if it
25 stays not -- liveable.

1 My trade is pipefitting steamfitting,
2 specialized in hydronic heating, did certification in
3 oil burning mechanics and combustion technologies, especially
4 with wood classification.

5 From early childhood on I was made aware of
6 the dangers of burning fossil fuel, so these dangers are
7 nothing new to me. These dangers just got neglected by the
8 main population of this planet, or, better put, we got made
9 to slaves of dependency on this dangerous source of energy.
10 Or is anyone here who can see what is really happening to our
11 modern homes?

12 This type of energy got pushed up on the
13 world's population for no other reason than the pure greed of
14 the very few greedy people, which now try to rule the world
15 and totally neglect the destruction of the planet for just
16 the reason of personal profits. Unfortunately, these very
17 few people could enslave to them cohorts of Mandarins to push
18 their cause.

19 Now, to our subjected land here. During my
20 apprenticeship, which I finished with honours before I was
21 20, I got introduced to the wood classification technology
22 which was in common use, especially in Europe, until after
23 the Second World War, mainly for propelling reasons. After
24 that, this technology got sort of neglected by the main
25 industry, but a few people stuck with it and improved it.

1 Since then, I stay updated on this technology,
2 and I heat my house with the classification followed. I was
3 also involved in the wood-fired power plant project Haines
4 Junction, which I tried to do with the classification
5 technology and not just with converted barrel stoves, that
6 the large US company tried to do and failed miserably to the
7 financial loss of our utility company. I will come back to
8 this later.

9 To the energy project here on the table, I
10 tried to begin with the application from YEC, which is flawed
11 from the beginning to the end. They can't even get the
12 terminology right. In the introduction, second paragraph,
13 YEC is talking about modernization of the existing thermal
14 generation station. The Whitehorse diesel power plant is not
15 a thermal power plant. Thermal electricity production is
16 done with boilers fired with fossil fuels or by heat created
17 with nuclear reaction to produce high temperature steam to
18 propel turbines connected to generators. The Whitehorse
19 backup facility is a diesel engine power generation station;
20 nothing else.

21 Now, to the replace diesel-fired engines with
22 gas-fired engines, it's not a modernization. It is just a
23 mere maintenance job to keep the plant operational, but the
24 big oil in the backroom of YEC, they pushed the "new" slogan
25 energy in front of it, mainly to open the back door to

1 fracing in the Yukon.

2 Natural gas in its lifecycle is worse than
3 coal as an environmental pollutant. We could prove this.
4 There's multiple studies done around the world by competent
5 and independent scientists.

6 LNG is not the great fuel the O&G industry
7 claims it to be. LNG is a rotten gang plank into climate
8 disaster.

9 To produce LNG, it needs about 40 percent of
10 the energy produced to make it. It is an insane waste of
11 resources only to make profits.

12 The location chosen by YEC for the LNG storage
13 facility is the worst possible. LNG is much more dangerous
14 than the diesel fuel now in use at the facility.

15 Natural gas, which is 98 percent methane, is a
16 highly flammable and explosive fossil fuel. It is most
17 flammable and explosive -- it is the most flammable and
18 expositive fossil fuel.

19 Methane is flammable in a range of 5 to
20 15 percent gas to air mixture. Propane needs 2.1 to
21 9.5 percent mixture. Diesel needs 1.3 to 6 percent mixture.
22 Gasoline needs 1.4 to 7.4 percent mixture.

23 So methane has a large larger spectrum to burn
24 than all the others. But now the O&G industry and YEC tell
25 us LNG doesn't burn, which they are actually correct, because

1 LNG is only LNG when it is cooled down to minus 162 degrees
2 Celsius. At temperature it is hard for any fuel to ignite.
3 The wood on a match could not produce enough heat to sustain
4 a flame and will go out. That way they can show you videos
5 where people stick a match into a canter filled with LNG
6 vapour that was put into the canter shortly before. If they
7 would wait a couple of minutes, they would end up with a
8 black head. This is just another little flaw in the
9 application and the sales pitch of the oil industry.

10 Now, because of these proven physical facts, I
11 can say that the location for a storage facility for LNG
12 beside the main power station and office which hold the
13 control capacities for the rest of the country is bad.

14 If anyone has spent the time to go over the
15 comments of YESAB from Environment Canada who did a computer
16 supported accident simulation that came up with the worst
17 scenario of the fireball with the radius of 1.36 kilometres,
18 because of wind and obstacle conditions it will not be a
19 circle, it will be an elongated oval, but still the
20 Whitehorse power plant and office will be in it. A large
21 part of Riverdale will be in it. It will reach the
22 Whitehorse General Hospital and the southern part of the
23 city. The temperature in that fireball will be over
24 1,000 degrees Celsius. So anything exposed to it for a few
25 seconds with a flame point below 1,000 degrees will start to

1 burn.

2 Do we really need this? Do we really want to
3 take this kind of risk? Especially when we have the option
4 to do this with real modern technologies, like wind, solar,
5 or biomass. All these technologies don't inherit fire
6 dangers. I say on purpose not explosive dangers. Then the
7 fireball would not reach the sonic speed, which only then
8 fire can be called an explosion.

9 For the sake of emergency power backup, we
10 could build decentralized, out in the communities, wind,
11 solar, or biomass power plants. Syngas from biomass can be
12 stored in small amounts like natural gas for the duration of
13 the start-up time for the gasifier, if they are not already
14 running. All it needs is turn the key and the engine is
15 driving. The generators would start. This can even be done
16 remote. This would be real modernization.

17 Back to my involvement with the Haines
18 Junction wood-fired power plant. Even before me and my
19 friends started on the project, I was searching on the
20 Internet for manufacturers of wood classification on the
21 electricity production equipment, gasifiers with four
22 engines. The company I found is mass producing this type of
23 energy production all over the world, including Africa. They
24 came up with two gasifiers with four engines each and
25 generators on each for a total of eight generators for

1 flexibility and maintenance reasons.

2 This quotation included the controls installed
3 in a container shaped office, the chipper with conveyer and
4 two chip storage silos, ready for shipment in five months
5 after the money transfer for the down payment. The full
6 equipment cost for a 4 megawatt facility was 6.8 million US.
7 This price has since most likely fallen.

8 For the erection and installation of the
9 equipment and training for the crew to operate the facility,
10 the manufacturer offered the engineers \$450 an hour, plus
11 incurred travel and accommodation.

12 The quote also included the option to sell the
13 ash and the tar that it separated and collected and which
14 could be up to the sum of \$270,000 for the ash sold as
15 fertilizer and \$240,000 for the tar sold to chemical
16 industry --

17 THE CHAIR: Just to remind you, you have
18 one minute left.

19 MR. RHEIN: I'm just finished.

20 For the tar sold to the chemical industry by a
21 full production of the facility a year.

22 Not included was the land which has to be
23 large enough to store wood for about eight months, the
24 prefabricated steel building to house the gasifier and the
25 engine generators and control container where the Yukon grid

1 would be connected to.

2 A facility like this would create five to six
3 times the jobs that a diesel or natural gas-fired facility
4 for the same amount of money invested, and the jobs would be
5 local and not in Texas. The money would not flow to offshore
6 accounts. The money would stay in the local economy. This
7 would be a real modernization.

8 Thank you.

9 THE CHAIR: Thank you.

10 So we'll do one more speaker, and then I think
11 we'll take a little bit of a break. I think we can afford to
12 go for a break for ten minutes, but we'll go with one more
13 speaker before we do that.

14 MS. BENTIVEGNA: Mr. Theo Stad.

15 MR. STAD: First, thanks for allowing me
16 to make these comments. I'm just going to read them here for
17 everybody.

18 In my opinion, the one thing lacking in
19 Yukon Energy's LNG Project is long-term wisdom. When I stand
20 back and look at this project, it's clear to me that there's
21 no wisdom in installing a highly compressed gas storage
22 facility near a populated area right at the base of a dam.

23 This proposed LNG Project I feel is
24 misdirected. It has high environmental costs, potential
25 safety risks, and comes at a very high cost to taxpayers. It

1 fuels society's dangerous addiction to fossil fuels. It
2 lacks any wisdom, knowledge, and opportunity from the
3 renewable energy generation industry and what has been
4 learned over the last 40 years. Renewables can provide
5 energy without compromising our future generation's ability
6 to meet their needs with clean air and water.

7 So I encourage the YUB to reject this
8 proposal. The reasons are the climate change is a huge
9 global issue and not a new one. The science backing this
10 thinking was known 40 years ago, and today science libraries
11 contain solid information on this issue on how to reduce
12 society's contributions to climate instability.

13 Little to none of this climate change
14 awareness is used or reflected in this project, and sadly
15 this project does not reduce the global carbon footprint.

16 The way I see it, in this time when there's a
17 continent-wide craze to get fossil fuels out of the ground
18 quickly and send them worldwide, the short- and long-term
19 environmental risks are ignored. In the long run, this will
20 negatively affect Canadians, Yukon people, ratepayers and the
21 environment.

22 The government of the day here in the Yukon
23 and Canada are opening the floodgates, as if it were, and
24 throwing cash at LNG projects. There is no consideration in
25 this project for the methane gas leakage issue and the effect

1 it will have on climate. I feel this is partly because the
2 petroleum industry has far too much influence on governments,
3 and from that I have no confidence that regulation will be
4 effective in elimination of this problem, especially at the
5 Harper government having recently gutted environmental
6 enforcement.

7 Canadian and the Yukon governments glossy ads
8 claiming to protect the environment will not keep our
9 groundwater clean and cannot make placing a liquified natural
10 gas storage vapourized solution, including flaring and
11 combustion facility at the base of a dam upstream of a city,
12 a wise choice.

13 I know the Yukon Utilities Board does not
14 necessarily oversee these issues, but they do constitute
15 risks to the taxpayers. However, the costs and undesirable
16 contributions of adverse storms and wild weather resulting
17 from the extracting and use of LNG need to be included in the
18 overall project costs. If carbon taxes or another method of
19 accurately accounting for the negative effects associated
20 with natural gas extraction and processing, this project
21 would cost a lot more.

22 And there's other reasons to reject the
23 project. I feel it's been green washed by claims of a
24 cleaner energy when using LNG. The engineering studies, like
25 I said, they lack any of that information on the gas, on the

1 methane gas leakage, that the industry itself admits occurs.

2 So to drop 40 million into any project that
3 uses more environmentally costly fossil fuels I don't feel is
4 wise. To drop that amount of cash into a project that has
5 the side effect of greatly increasing climate change is
6 incredibly unwise.

7 I feel it's time for this publicly owned
8 utility to actually make some of the harder decisions to
9 reduce the environmental impacts of energy production. By
10 this I mean the use of renewable energy sources such as
11 low-impact hydro, make significant reductions in energy use,
12 and shift the use to off-peak times to reduce the need for
13 fossil fuel peaking.

14 Ontario and other jurisdictions across Canada
15 and around the world have taken steps in that direction.
16 It's time for YEC to move in this direction for the benefit
17 of Yukon ratepayers and future generations.

18 Back in the early '90s, I think it was
19 '92/'93, soon after I arrived here, YEC chose to dump the
20 electrical use demand side matching programs. Then, instead
21 of working with the governments and expanding their power
22 smart programs of the day to require improvement of
23 residential and commercial buildings so they would be
24 constructed to higher insulation levels and require lower
25 energies, that whole program got scrapped.

1 I feel that same lack of common sense and
2 long-term wisdom that scrapped that energy efficiency and
3 conservation program is behind this push for what I feel is a
4 misguided LNG Project.

5 The overall safety risk of this project makes
6 the cost to citizens and ratepayers way too high. The
7 \$40 million initial capital costs, plus the rising fuel
8 costs, plus the negative environmental impacts of worsening
9 Yukon's addiction to fossil fuels, make this project totally
10 irresponsible. There's not even any short-term gain, let
11 alone any long-term benefit to Yukon people.

12 I don't think we can be fooled by the
13 short-term fuel cost savings forecast we're hearing. LNG is
14 a finite commodity that Canada is seeking to export. The
15 cost of LNG can only rise. This again puts ratepayers at
16 risk, and not even considering the pollution of our air and
17 water and the results from the extraction of natural gas.

18 So instead of pursuing this bad LNG Project,
19 my hope is that the public utility would be much wiser to
20 fast track replacement of the aging diesel generators with
21 new efficient diesel powered generators and put investment
22 money into more renewable sources and energy efficiency and
23 conservation programs.

24 I feel somehow YEC has got seriously
25 sidetracked by pursuing this LNG prototype project despite

1 strong public opposition, and what I feel they have the lack
2 of any social licence to make what I call a massive
3 investment in fossil fuels.

4 I strongly encourage the Yukon Utilities Board
5 to reject this project and give YEC another opportunity to
6 make decisions that won't put ratepayers and future
7 generations at risk.

8 Thank you.

9 THE CHAIR: Thank you, Mr. Stad.

10 So it's just after 8:00 now. So I would like
11 to call a break for about 10 minutes. So if you can come
12 back and we'll be ready to go at about 8:10.

13 Thank you.

14 (ADJOURNMENT)

15 THE CHAIR: So if people could find their
16 seats again, I would appreciate that. We can get started
17 again.

18 People are still settling in there a little
19 bit, but what I'll do is I'll ask Ms. Bentivegna to call up
20 the next speaker.

21 MS. BENTIVEGNA: Ms. Lois Johnston, please.

22 MS. JOHNSTON: YEC is proposing a major
23 investment in public money with its plan to build a new LNG
24 facility for backup power generation.

25 According to the terms of reference given for

1 this hearing, specific aspects of this project will be
2 reviewed. I would like to speak to the last aspect, that of
3 whether or not it is prudent to build this facility at this
4 time.

5 To be prudent, according to the Canadian
6 Oxford dictionary, means to be careful to provide for the
7 future.

8 Let's first consider the economic costs. Is
9 it prudent to be switching to LNG when there are many
10 questions about its predictability of long-term supply and
11 cost? A recent NEB report, *Canada's Energy Future 2013,*
12 *Energy Supply and Demand Projections to 2035*, states that:
13 (as read)

14 "Future natural gas prices are a key
15 uncertainty. Since 2000, annual
16 average gas prices in North America
17 have had large swings with prices
18 peaking in 2003 to 2005 and current
19 prices being less than half of the 2008
20 prices."

21 The world prices, however, are close to 5 times higher than
22 the North American price. But to date, exports from
23 North America have been limited by lack of LNG facilities.
24 This is about to change significantly, though. There are
25 many LNG exporting plants in the planning or construction

1 phase in North America, and at least nine in western Canada.
2 This will invariably increase demand for natural gas, as will
3 the major move underway to convert to LNG electrical
4 generation in North America.

5 Combined with the fact that Canada's current
6 export permits cover an amount of gas that exceeds our
7 current national production, projected increases in domestic
8 and international markets can only lead us to believe that we
9 will be paying much higher prices in the future.

10 The NEB cautions us further about this when it
11 states, again, quote: (as read)

12 "Demand for natural gas in Canada and
13 internationally could vary beyond the
14 range considered in this analysis. The
15 growth of gas used for power generation
16 could ramp up more quickly either to
17 replace older coal plants or, if
18 planned, new nuclear plants are not
19 built. Domestic natural gas demand
20 could also vary due to production or
21 technology changes in fuel requirements
22 for the oil sands. Changes in demand
23 for Canada and US natural gas would
24 have an impact on North American
25 natural gas prices."

1 What safeguards are there to protect us as the future
2 consumer? It would be prudent to wait to see what the impact
3 of the coming exporting boom will have on the volatility of
4 LNG prices before spending 38 million on LNG infrastructure
5 and before we get locked into something that very likely will
6 cost a lot more than anticipated.

7 According to NEB, this boom is expected to
8 begin around 2019. The NEB predicts: (as read)

9 "As rising prices and LNG exports
10 support higher drilling levels,
11 production ramps up continuously from
12 2019 onwards."

13 Now, to consider the environmental costs.

14 Is it prudent to be switching to another
15 fossil fuel, natural gas, and committing to it with a major
16 \$38 million investment in light of the urgent need to reduce
17 greenhouse gas emissions as reported by scientists of the
18 intergovernmental panel on climate change as we heard again
19 today, and in light of Canada's obligation to reduce
20 emissions by 17 percent of the 2005 levels by 2020.

21 The international panel on the state of the
22 ocean has also sounded the alarm on the burning of fossil
23 fuels. Scientists are stating -- this is a quote: (as read)

24 "The health of the ocean is spiralling
25 downwards far more rapidly than we had

1 thought. We are seeing greater change
2 happening faster, and the effects are
3 more imminent than previously
4 anticipated. The situation should be
5 of the gravest concern to everyone
6 since everyone will be affected by
7 changes in the ability of the ocean to
8 support life on earth."

9 We are not switching to a cleaner energy source with this
10 project. The primary component of LNG is methane, a potent
11 greenhouse gas. The extraction, processing, transportation,
12 liquefaction of LNG and associated fugitive emissions has
13 been found to result in greater greenhouse gas emissions.

14 The economic costs of disasters related to
15 climate change, i.e. the cost to ratepayers through taxes,
16 are increasing dramatically. For example, summer storms and
17 floods between 2010 and 2013 have resulted in a 600 percent
18 increase in federal liability for disaster relief to the
19 provinces, a total of 4.1 billion to be paid out over the
20 next five years.

21 In August 2013, Public Safety Canada rated
22 natural disasters, including the costs that come with them,
23 as the number one public safety risk. The recent dramatic
24 increase in costs related to these natural disasters
25 indicates a broader trend in Canada and globally.

1 Is there social licence to continue down the
2 path we currently tread with increased reliance on fossil
3 fuels, confounding climate change? The public hearing of
4 YESAB suggested not.

5 One important mandate of the Yukon Utilities
6 Board is fixing standards, classifications, regulations,
7 practices, measurements, or services to be observed,
8 provided, or followed by a public utility. As such, you
9 should be very concerned about granting approval for a public
10 utility that follows practices that exacerbates our
11 greenhouse gas emissions, that proposes projects that have
12 questionable economics due to high pricing uncertainties, and
13 one that consciously locks ratepayers into fossil fuels, when
14 we should be investing in non-fossil fuel alternatives.

15 As a ratepayer, I would prefer not to gamble
16 on the volatility of LNG pricing and the high risks to the
17 environment. I would rather see the expenditure go to
18 maintaining or replacing the existing units, and actively
19 pursuing non-fossil fuel alternatives to replace them.

20 Options for alternatives have been presented,
21 or will be presented, at this hearing. They deserve greater
22 attention. Given the urgency to address greenhouse gas
23 emissions and the economic and environmental risks to
24 ratepayers and society, it is not prudent to advance this
25 project at this time, or any time in the near future.

1 We need to exercise greater care in providing
2 future generations an environment in which they can prosper,
3 rather than one in which they will be unable to bear the
4 costs of mitigation and adaption if we perpetuate this
5 addiction to fossil fuels.

6 Yes, we must be prudent. No, this project is
7 not in the public society's interest.

8 Thank you.

9 THE CHAIR: Thank you, Ms. Johnston.

10 MS. BENTIVEGNA: Ms. Maryanne Lewis.

11 MS. LEWIS: My name is Maryanne Lewis, and
12 I would like to thank you for having an opportunity and
13 offering an opportunity for the public to speak, and also for
14 the public to come to the hearing this week and listen. We
15 appreciate being included.

16 You recognize that the Yukon Energy Board is a
17 public board, but still, I believe this is the first time
18 that there's been an invitation and an opportunity to include
19 public people coming to speak who are not specialists and
20 we're not perhaps the scientists that most people are.

21 Thank you.

22 As I said, my name is Maryanne Lewis. I'm a
23 ratepayer. I pay power rates at Tagish, where we've lived on
24 and off for over 40 years. I pay power rates in Whitehorse.
25 Our youngest son still works out of our home. He's here.

1 This is his permanent residence.

2 And I appreciate having hydro. We have lived,
3 like many people in this room have lived, over 40 years ago,
4 without constant heat, without power. It takes much longer
5 to make things work for a family when you don't have constant
6 heat. It takes much longer to do everything without power.
7 And having power and hydro as a lifestyle has allowed me as a
8 mother, as a person working and taking care of other people's
9 children as well, to have way more time to do things that are
10 beneficial to children, to pay for activities, for
11 involvement in groups, for support that has made their lives
12 better and allowed them to be able to participate in a world
13 with more skills, more strengths, with more self-confidence.
14 Therefore, I do appreciate being a ratepayer.

15 I understand our rates are lower than even
16 some places such as Calgary. I can't comment on that. For a
17 while I guess I thought we were supposed to be lucky.
18 David Morrison made a statement one time at a meeting in
19 Marsh Lake that Whitehorse people pay \$1.74 a kilowatt hour.
20 In Calgary, they pay \$1.94. He didn't seem pleased saying
21 that. I thought later maybe he didn't mean you're lucky.
22 Maybe he meant you're stupid. Maybe he meant money is more
23 important to you in paying your rates than realizing what
24 it's costing ultimately.

25 And as our children grew up, left home,

1 carried working, I have spent time going to workshops, going
2 to Yukon Energy's presentations, Charrette's, different
3 community events. I've gone to the University of Victoria
4 climate lab where I've observed several young 30-year-old
5 scientists working, describing projects to me. Andrew
6 Weaver; I've gone there a few times.

7 A short while after leaving that vicinity with
8 kids there, and supporting kids through various graduations,
9 et cetera, I said to one group, I said, "You know, you guys
10 are so bright. Where we've messed up, your generation will
11 be able to take the reins. You will be able to run the
12 country and make the decisions and fix the things that we've
13 not done well."

14 And the response to me, by one child was -- or
15 30-year-old -- "No, it will be too late."

16 I then carried on reading, learning. Science
17 is not my background, nor is climate. However, I have spent
18 quite a bit of time listening, working with groups where
19 scientists are involved, learning, because to me it seemed to
20 be almost like a two-by-four to the head to hear that I'm
21 happy with my power rates, paying for my kids' sports, for
22 other people's crafts and investments so that my children and
23 other people's children have a sustainable future and have
24 skills to move ahead in the world, being healthy and happy.
25 Yet what I'm using and addicted to, actually, in oil and

1 power is going to have a cataclysmal effect on my
2 grandchildren and next generations.

3 And I'm in a big way, as everybody in the same
4 boat and not doing something different, I'm responsible, and
5 I accept that. And I'm not happy about that, which means I'd
6 be willing, I guess, to pay a lot more to make it different.
7 And I know to this point money linked to power doesn't do it.

8 However, I am putting time and energy into
9 learning, to speaking up, to supporting other people who
10 don't find more, and in hopes that we still have time to make
11 a difference. And I know that we don't have much time.

12 I would like to do a short quote that was sent
13 to me by a scientist last night, a climate scientist, from
14 the International Energy Agency, which is not even a group of
15 scientists; it's an agency above all the oil and gas people
16 which are running a related country and are directing the
17 major investments and major money-making bodies.

18 The quote by this agency was: (as read)

19 "No more than a third of the proven
20 reserves of fossil fuels to be consumed
21 prior to 2050 if the world is to
22 achieve the 2 degree centigrade poll in
23 temperature, the international
24 recognized limit to the average global
25 warming in order to prevent a

1 catastrophic level of climate change,
2 two-thirds of these proven reserves of
3 fossil fuels need to stay in the ground
4 until 2015."

5 That's the direct quote from that body.

6 Another short reference today -- you probably
7 know except you were sitting in here -- I did stay home
8 longer so I could listen to the radio and hear the latest
9 report put out the United Nations International Panel On
10 Climate Change, the latest report by 90 percent of the world
11 scientists -- there were 310 of them with written reviews,
12 and they were using reviews, peer-reviewed papers of 12,000
13 in number from other scientists in the world.

14 They agree that we need to move away from
15 fossil fuels as quickly as possible. And I am told by
16 another scientist, climate scientist, there are tipping
17 points. It's not we're going to get to a point, recognize
18 it, be able to pull back, or even perhaps know when we're
19 over it. We may not know for awhile. There are more points.
20 We still have time, but we don't have a lot of time. We
21 don't have time to put it onto our children's shoulders and
22 rest assured that they're going to pick up the ball and be
23 able to do it.

24 In relation to our moving to another
25 fossil fuel with the infrastructure that that brings, the

1 LNG, we will become comfortable with it. It will be probably
2 easy. It might be cheaper. People say no. I don't know.
3 I'm saying we're addicted to oil, and we're willing to get
4 off it. It will be a challenge. We're willing to put time
5 and energy. Almost everybody in this room I recognize from
6 being at many meetings and throughout decades.

7 People have come to understand that for the
8 sake of our children's future and our grandchildren, we need
9 to move, and we're willing to move, and we're willing to have
10 it cost us more and to suffer more ourselves. And I have
11 said to David Morrison and others at Yukon Energy at times,
12 if you go with that line to Skagway, we know there's
13 tick-offs, we know there's a lot of work. We will help you.
14 We will take all the people who are standing up against you
15 at all these meetings -- and believe me, there are many, and
16 the meetings are ugly at times and stressful for everybody.
17 It's amazing everybody is still standing and no one has had a
18 major heart attack or stroke of any of these groups. The
19 reality is people will support a move to renewable energy and
20 are willing to suffer the consequences that it will cost in
21 us being able to do that.

22 I also know that Yukon Energy cannot -- or I
23 believe they can't do the education that's necessary to
24 conserve themselves with us. You know, when we create a
25 sustainable whole department creating sustainability for

1 children and families, we want our children to be safe.

2 There is multiple backup resources to protect children who
3 are at risk.

4 THE CHAIR: Maryanne, you have about one
5 minute.

6 MS. LEWIS: Thank you. I'm saying we need
7 the same supports from government and backup to put into
8 effect almost hand holding, leading to ways to conserve, to
9 move to renewable energy. It's not natural. We have to keep
10 researching to figure out how to do it. Some younger people
11 are gifted. However, we need to do it, and we're willing to
12 do it. And if we wait to put this onto our children, it will
13 be too late.

14 Please have the government consider that.
15 Thank you.

16 THE CHAIR: Thank you very much.

17 MS. BENTIVEGNA: Ms. Jennifer Line.

18 MS. LINE: Hello.

19 THE CHAIR: Hi.

20 MS. LINE: I'm Jennifer Line. And
21 thank you very much for this opportunity to speak.

22 I'm going to -- based on your terms of
23 reference, you've asked people to -- you want to hear our
24 personal knowledge, views, and concerns. And within your
25 terms of reference, I am going to speak to the question of

1 whether it's prudent to proceed based on my knowledge.

2 I have a master's degree in biology and
3 20 years of experience working in botany, vegetation
4 classification, plant inventory, and working with rare plants
5 across Canada. And I've lived in the Yukon for 12 years.

6 I worked for Environment Yukon for two years
7 in the conservation data centre, compiling information. I
8 worked on the appeal Commission work. And right now I also
9 teach at Yukon College in the sciences. And, most
10 importantly, I'm a mother.

11 It's, in my view, absolutely not prudent to
12 proceed with the LNG Project. And I want to give you a few
13 examples. Lois gave a great presentation with citations on
14 climate change and its effects, but I wanted to give you a
15 little bit of information about Yukon examples from Yukon
16 scientists because it's important that you see these impacts,
17 the impacts that climate change, which any fossil fuel
18 burning is going to have an impact on, that climate change is
19 already affecting the Yukon. It affects the living systems
20 of the Yukon and, therefore, it affects us because we are
21 mammals and we cannot be separated from it, the systems.

22 Okay. So within the Yukon, just as an aside,
23 I've been helping in Kluane National Park and Vuntut National
24 Park to set up vegetation plots in the alpine. And these are
25 to monitor change in the vegetation.

1 In places like Colorado they've already seen
2 that alpine vegetation is disappearing and we're getting
3 larger shrubs coming up. So that's changing the environment
4 for all wildlife that's living in those regions.

5 We're seeing a decrease in the snow pack and
6 glaciers in Kluane, etcetera. And, as well, the ice patch,
7 which you may have heard of where the caribou poo has been
8 exposed and the First Nations have found evidence of hunting
9 tools from ten thousand years ago, why are we able to see
10 these things? We're seeing these things because that ice has
11 been there for 10,000 years. That caribou poo has been
12 covered for 10,000 years, and now it's exposed. So that's a
13 real change that's happening right here.

14 I want to highlight the research of Katherine
15 Kennedy, who's been working with Environment Yukon for
16 25 years. She was doing vegetation surveys on the
17 North Slope. I believe it was about 1985. She was doing
18 work for Ivvavik National Park. So she took very detailed
19 notes on the plants that were growing on the slope in various
20 areas. She had the opportunity to return 20 years later and
21 she looked at those same plots and the vegetation had
22 changed. Where there used to be a lot of grasses and
23 herbaceous plants and sedges, which are high quality food for
24 caribou and muscox, more shrubs were coming in. Less
25 palatable, less nutritious food for these animals. So that's

1 a real impact on people, as well, and these caribou herds.

2 As well, if you've been up to Herschel Island
3 or the North Slope or heard about it, Herschel Island is
4 disappearing. The permafrost is melting and Herschel Island
5 is getting smaller every year. It's just sloughing off into
6 the sea, the Beaufort Sea.

7 The Old Crow Flats. It's a series of huge
8 pothole lakes. The permafrost underneath them is melting and
9 some of the lakes are disappearing almost overnight because
10 the permafrost that's holding up the water in the pothole
11 lakes is draining as the permafrost melts. So that changes
12 the habitat for the moose, the wildlife again. So, again,
13 changes to the wildlife.

14 Dr. Jill Johnstone at University of Saskatoon,
15 she lived up in the Yukon for quite awhile. She still does
16 her research up here, and she studies changes in vegetation
17 in areas where permafrost is changing and also fire regime
18 changes. And we are seeing increases in fires in north Yukon
19 and a fire regime, and that has an impact on habitat for
20 wildlife.

21 Dr. -- well, Al von Finster, he's retired. He
22 worked for the Department of Fisheries and Oceans. He,
23 before his retirement, he spoke of the water tables in the
24 Yukon changing, loss of creek tributaries, loss of fish
25 habitat. That is being seen in the Yukon.

1 And then all of us have seen what the forests
2 around Kluane look like now with the spruce budworm insect
3 infestations. Those insects are surviving because the
4 winters are not as cold and so we're getting a lot of tree
5 loss there. It's totally changed the Kluane landscape.

6 So all of those things point to changes in the
7 Yukon as a result of changing climate. It's real and it's
8 happening here.

9 And I don't have the citations for you, I'm
10 sorry. I prepared this in haste, but if you need those
11 citations or references to that, email me and I can get that
12 information for you.

13 So most of the people in this room, I suspect,
14 have children or nieces and nephews, and what we're talking
15 about is their future. And the decisions that we make right
16 now are going to impact those kids and their future. This is
17 real. And we've had all sorts of a backlash from climate
18 change data and information, but just today, the
19 intergovernmental panel on climate change with the UN has put
20 out a very strong statement saying if we don't do something,
21 and fast, we're in real trouble.

22 Now, the problem is we can blame the other
23 government organization, the other utility somewhere else,
24 but is that really what you, as individuals, want to do for
25 the children of the Yukon? That's what I -- I think that

1 they deserve a greater legacy. And I think there's been
2 plenty of evidence put forward by some scientists about
3 alternatives, green alternatives, that we can use. And
4 they're real. They exist.

5 I know that in May there's going to be an
6 electric thermal storage workshop in the Yukon, bringing up
7 technologies that are already in use in other places. Other
8 countries in the world are far further ahead with their
9 technologies. All these little glitches we're worried about
10 that might be a problem in the Yukon, well, that's where you
11 invest your money to do the research, to make it work here
12 because it can work. Okay.

13 THE CHAIR: So, Jennifer, you have about a
14 minute left.

15 MS. LINE: Well, I think I'm almost done.
16 I'm just going to check.

17 Oh, I have one last point that I failed to
18 mention earlier, and that is that I also attended the North
19 Slope conference. I think it was in 2007. And at the
20 conference, the First Nations from the North Slope spoke of
21 how they had noticed change -- traditional knowledge here --
22 that they had noticed change on the land in the '70s, in the
23 early '70s. That's when they started noticing change. And
24 that impacts their ability to hunt. Oral history told them
25 how they could hunt and how they could quickly find food.

1 It's a lot of work, hunting. And those oral history lessons
2 no longer work in some instances because conditions have
3 changed and they're unpredictable.

4 So, once again, these are real effects, and
5 Yukoners are feeling them and I want something new and bold
6 for Yukon children, and I think we need to show leadership on
7 this point.

8 THE CHAIR: Thank you very much, Ms. Line.

9 MS. LINE: Thank you.

10 MS. BENTIVEGNA: Ms. Mary Amerongen. Sorry if I
11 didn't say that quite correctly.

12 MS. AMERONGEN: First I have a gift for you.

13 THE CHAIR: Oh, we can't take gifts. We'll
14 share it. Thank you.

15 MS. AMERONGEN: My name is Mary Amerongen.

16 I've lived in the Yukon for 13 years and it's my home. I'm a
17 renter. I have electric heat. I think I'm glad I'm not a
18 homeowner with what may happen to real estate if the LNG
19 plant goes in.

20 I've given you that book. It's called
21 "Eaarth," spelled with two As, by Bill McKibben. It's
22 spelled with two As because due to climate change, we're
23 looking at a new earth. The book is very readable and it
24 offers many ideas on how to cope with climate change and how
25 to slow it down. So I invite you to look at it.

1 I ask you to oppose the construction of a new
2 LNG facility. It does not make sense economically, but, much
3 worse, tying the Yukon further into using fossil fuels does
4 not at all make sense for living beings here or anywhere.

5 Carbon in the atmosphere is a main cause of
6 global warming. Mr. McKibben, in that book, points out that
7 the historic level of carbon in the atmosphere for the last
8 10,000 years was roughly 275 parts per million.

9 In December 2007, James Hanson, then
10 considered the leading climate scientist in the world, showed
11 that 350 parts per million was the maximum the earth could
12 have and still support life as humans have known it -- as
13 humans have developed it.

14 It had been thought that it was quite a bit
15 higher, and they found that, no, 350 is the maximum.

16 By 2010 carbon in the atmosphere was at 390
17 parts per million. And there are thousands of examples all
18 over the world of disasters already happening as a result of
19 the climate change.

20 Scientists have calculated that 2 degrees
21 Celsius above normal is the maximum increase earth can
22 sustain and be recognizable by humans, but in 2010, the
23 increase was already at 1.5 degrees and getting worse.

24 We can't turn the situation around in time to
25 prevent major change, but we could much improve these

1 worsening trends by reducing carbon emissions through
2 reducing use of fossil fuels and putting renewables in place
3 now.

4 To be fully human at this time, to act with
5 integrity, with open eyes, without blinders on, is to work to
6 reduce carbon in the atmosphere and to help people adapt to
7 those climate changes which can't be prevented now. Nothing
8 is more important. That's what's most in the public interest
9 that you are assessing, to reduce carbon in the atmosphere,
10 to stop putting more in.

11 To add carbon to the atmosphere in the form of
12 the really powerful climate destabilizing methane, which is
13 the primary component of LNG, and to further entrench the
14 Yukon in a carbon-intensive technology by this major
15 investment can only be seen as madness.

16 Why has the YEC felt the deception necessary
17 of claiming that this project is urgent when our winter
18 diesel peaking needs have dropped in the last three years and
19 diesel makes up less than 1 percent of grid electricity
20 generation? There is time to put in alternative electricity
21 sources with support from using diesel temporarily for
22 emergencies and backup. And that would not lock us into the
23 new unstable fossil fuel, as this major new project would.

24 And when LNG gets exported from BC, the cost
25 of LNG will increase, as everybody else has been saying. The

1 low cost being counted by the proponents of the project will
2 not continue. Economics are to serve life and not vice
3 versa, but even economics don't support this project.

4 Did you know that dollar for dollar, money
5 invested in renewable electrical energy provides the same
6 number or more jobs than invested in fossil fuel electrical
7 energy? It depends on the type of project, whether it's the
8 same or more jobs.

9 And those dollars stay in the community and
10 they don't cause pollution, as the fracked gas which will
11 inevitably be used for this project will massively, massive
12 pollution.

13 The \$40 million would be far better used to
14 develop Yukon's renewable energy resources, to add energy
15 capacity and to put in place conservation strategies to
16 reduce peak demand for electricity. Use that money to help,
17 not to make things worse.

18 We don't need to be the lemmings going over
19 the cliff, taking many others with us. Turning around is
20 possible, and I invite you to help the Yukon to do so.

21 Thank you very much for the opportunity to
22 speak.

23 THE CHAIR: Thank you very much.

24 So we'll have one more speaker and then we'll
25 take another quick break.

1 MS. BENTIVEGNA: Mr. Cam Kos.

2 MR. KOS: Good evening, gentlemen. My
3 name is Cam Kos and I live here in Whitehorse. Thank you for
4 hearing us all tonight. I know you must be getting pretty
5 tired, being here since 9:00 this morning and a couple of
6 more days to go. So I would just like to say thank you for
7 that.

8 I would also like to take a quick moment to
9 say thank you to Yukon Energy for keeping the lights on a lot
10 more reliably than the 20 years I lived in Yellowknife. We
11 had power outages every six to ten weeks in the location that
12 I lived, and I think I've only had about four or five here in
13 the last five years. So it's been quite pleasant.

14 I guess I'm not going to talk about
15 environment, and perhaps I got a different outlook on things
16 here, but some of my concerns are in regards to section (c),
17 the risks and rates.

18 One of my biggest concerns is from an
19 emergency measures perspective. And I guess one of my
20 concerns is the location and the hurriedness of putting this
21 project through without the location planning that I feel
22 should go into it.

23 Putting all of our eggs in one basket at the
24 base of the dam, as other speakers have noted, is of grave
25 concern to me, not to mention the fact that we've got -- with

1 the planned fuel supply, there's no backup source.

2 If anything happens to the supply chain, the
3 road coming up from the south -- I'm sure all of you
4 gentlemen flew here, but if you have to travel thousands of
5 kilometres up the single road to get here, you would know
6 that we had the washout a couple of years ago. If something
7 like that happens, there's serious concerns on the highway
8 getting anything up here, whereas if there was diesel fuel
9 generators, we can always pay market rate and go to the
10 North 60 or Petro-Canada or whoever has got bulk fuel here.
11 So there are lots of backup options available.

12 Also you look at the Coquihalla Highway was
13 closed this past winter when there was problems there. If
14 they're trucking stuff through Vancouver, then it's probably
15 going to have to follow that route or some other method
16 coming up.

17 So we've got so many possibilities of breaking
18 the supply chain or causing problems getting the required
19 fuel up here.

20 Even something like a dam break, well, it
21 probably wouldn't wipe out Whitehorse, it would be a serious
22 issue for the rest of Yukon not having power if it takes down
23 all of our controls. So having an offsite location or
24 putting these generators in a different location is an option
25 that should be looked at before rushing into it.

1 Now, with that mind, taking note of
2 Mr. Morrison's comment this afternoon about how some of the
3 generators are bleeding like a -- or bleeding lots of fuel,
4 bleeding like a stuck pig -- he didn't quite say that, but
5 they're leaking lots of oil, sorry. There's lots of oil
6 issues. So, obviously, something does need to be done, but I
7 think it needs to be thought through very carefully.

8 It was noted here this afternoon that the LNG
9 is only from BC at the moment. So that's, again, the
10 critical supply chain. Diesel supply is, to quote
11 Mr. Morrison from this afternoon, is a radically different
12 method, specifically at this point in LNG development, with
13 LNG having limited supply of options of supply.

14 Again, this comes back to if there's something
15 happens getting this gas up here, this is our emergency
16 generation, this is our backup generation. If something
17 happens to our main grid, this is all we have. And with
18 12,000 customers, or however few customers we have in the
19 north, not being on an interprovincial grid, we have a
20 serious problem here if our only backup source doesn't have
21 the fuel source needed and there's no alternative to get fuel
22 to us.

23 One other note here. As far as the generators
24 go, just -- I think we're gambling with the investment and
25 with the security of the individuals here in the Yukon not

1 having a resource -- or, sorry, a generation source that can
2 be sourced through -- fuelled through multiple vendors or
3 locations.

4 A question I have leading to the
5 documentation, I haven't gone through all of it, but I was
6 trying to find information on who is going to be working on
7 the degasification or the vapourization or the gas process at
8 the processing of the plant.

9 My understanding, talking with some friends in
10 Fort Nelson who worked at the gas plants there, that there
11 would probably be a gas instrumentation tech that they would
12 need, and if you're running a 24-hour standby operation, you
13 would need four to five people with the certification to do
14 that.

15 The salary survey released in Saskatchewan
16 last year for technologists and technicians recognizes that
17 the average, average, gas instrumentation technologist
18 receives \$180,000 a year with benefits. 150 plus about 30 in
19 benefits. So if you get five people at that cost, you're
20 talking about \$900,000 in increased salary. These are new
21 jobs are not presently being used at the Yukon Energy
22 Corporation. And I just have concerns that some of the
23 numbers perhaps will be a little skewed if we don't start
24 accounting for all of the variables in here.

25 Just also I'm not sure if it's been accounted

1 for, but the BC government just recently announced that
2 there's going to be taxation on natural gas exported at 7
3 percent starting in the fall of 2014. Again, I haven't read
4 all the amendments. I'm hoping that's accounted for because
5 that seems to me to cause a grave concern for a financial
6 impact.

7 Also this afternoon we heard that the LNG
8 prices were modelled for the future years based on the fixed
9 pricing with 2 percent inflation. Again, that's a concern.
10 If I was to do that in my business plan and forecast that
11 there's going to be no increase to the expenses other than
12 the rate of inflation, they would look at me and tell me I'm
13 nuts. And I just don't know how we can turn a blind eye to
14 the option of cost of fuel going up.

15 Finally, I think there's going to be, with all
16 these costs, increased costs, it's going to be a big impact
17 on our seniors in town and having relatives that have lived
18 here in the north for -- my mother and father-in-law have
19 just recently retired. They've been up here for 20 years.

20 While they try to rely on other forms of heat,
21 a lot of seniors have a lot of space heaters and they tend to
22 be a colder bunch that like to have a little extra heat. And
23 I think they're going to be extremely impacted financially by
24 increased prices that could result.

25 And I guess, finally, my final comment is --

1 would be under the -- under the alternatives. To quote the
2 documents from this morning, Section 4.2.3, page 24, they
3 say: (as read)

4 "Overall, looking at the relevant costs
5 and risks, it is concluded that the
6 only practical, cost-effective option
7 to date to the project is the new
8 higher efficiency diesel replacement
9 option. Accordingly, the new higher
10 efficiency diesel replacement option
11 has been selected as the relevant,
12 feasible, and best alternative to the
13 project."

14 So if the LNG Project does not go ahead, it's not that the
15 Yukon is going to be in trouble. They already have a
16 feasible and best alternative selected for this process.

17 And, again, I hope that everyone here is not
18 saying everything in vain tonight and that there still is a
19 chance, because from this afternoon it sure sounded like the
20 purchasing has been done and the deal is already through.

21 So I thank you, gentlemen, for hearing us out
22 tonight.

23 THE CHAIR: Thank you very much, Mr. Kos.

24 So it's about 8:00, or three minutes to. So
25 I'm going to suggest we break for ten minutes so we can give

1 the interpreter a break and then resume here at 8:10. Sorry,
2 9:10. Sorry, I lost track of time.

3 (ADJOURNMENT)

4 THE CHAIR: We're going to get underway in
5 a couple of minutes here, so if people could settle back in.

6 All right, we'll get underway. Just before
7 the next speaker comes up, I was remiss. I should have
8 introduced to my left the people at this table to my left.
9 And the first three people, Giuseppa Bentivegna and
10 Bob Clarke and Dwayne Ward. They're advisors that we
11 contract with from Alberta Utilities Commission, and they've
12 been with us for quite a few years, eight years. So they've
13 got a good track record in terms of assisting the Board in
14 this process.

15 Colleen Henry and Deana Lemke are -- Deana's
16 our executive secretary, and she does that job on a part-time
17 basis, and Colleen is helping us out with this particular
18 hearing because Deana also does double duty at Hansard. And
19 then we have the court reporters here and in the back, and
20 they're with Amicus Reporting. And Steve is our sound guy.

21 So with that I will get Ms. Bentivegna to
22 introduce the next speaker.

23 MS. BENTIVEGNA: Mr. Ken de la Barre.

24 MR. BARRE: Thank you very much.

25 THE CHAIR: Thank you.

1 MR. BARRE: My name is Ken de la Barre, and
2 I was sitting at home doing income tax returns for a bunch of
3 people, including my family, and I overheard parts of the
4 summary of the conclusions of the international panel on
5 climate change, and I know other people before me have spoken
6 about the panel and its conclusions. And, frankly, I thought
7 they were pretty grim, and I wondered whether or not the
8 Panel or the Board takes the context of those conclusions
9 into consideration.

10 We've heard a lot tonight, details about rates
11 and different things like that, mathematical formulas and so
12 on, and trying to predict the future rates or cost of
13 different energy systems. Must be a mug's game in today's
14 world.

15 At any rate, I'm happy at this point in the
16 evening to add my support to the many presentations that have
17 already been made. Everyone has considered most of the
18 things that concern me, and yet we're asked to, under the
19 terms of reference, say something about whether or not we as
20 individuals think that this project will benefit, will
21 benefit me or the community. And I think that in today's
22 world we have to interpret the word "community" to mean the
23 broader community, the world, and what impact this project
24 could have on the rest of the world, on my grandchildren, for
25 example, but also on the reputation of the Yukon.

1 Recently I was able to look at a map showing
2 the number of -- or the amount of wind energy installations
3 that are going on across the country. Hundreds of them in
4 every province and territory. The Yukon was on the map with
5 a minuscule amount of wind energy being shown.

6 I think someone else earlier has mentioned
7 that that sole wind energy installation was done years ago
8 before any other wind developments were going on across the
9 country. Now that map shows that we're way, way behind. And
10 I wondered wouldn't it be good to find out why those other
11 territories, northern territories, and provinces are so
12 foolish to be investing in that kind of energy. I mean, why
13 are they so stupid? Don't they look to us as an example of
14 how about to go about things right, by relying on old
15 technology, old fossil fuels, old systems that are proving on
16 a daily basis to be out of date?

17 So when I think about the government and the
18 Yukon Energy of investing a sizable amount of money in a
19 project that is supposedly destined to operate over a 40-year
20 period, I'm wondering how out of date that project will be in
21 10 years, or less. It will prove to be another white
22 elephant.

23 You've asked what kinds of recommendations the
24 Board should make. And I think you've had a lot of ideas
25 presented to you tonight. From a personal point of view, I

1 would ask that the Board consider recommending, at the least,
2 a delay in the present project, in the implementation of the
3 present project, and that the Yukon Energy be asked to look
4 at other alternatives.

5 Now, there is an alternative that was just
6 mentioned before the break of a diesel, an improved diesel
7 installation. That would be able to be put into effect, I
8 imagine, in a fairly short period of time. But it shouldn't
9 be the only other alternative on the table. There are
10 others, and wind has been mentioned as one, and energy
11 storage systems have been mentioned as well, and all other
12 kinds of ideas are out there.

13 So I would suggest that we not stay to be the
14 only jurisdiction in this country that has avoided looking at
15 these other serious alternatives. There's no reason to rush
16 ahead with this project, no reason in the world.

17 So I would hope that one of your
18 recommendations would be a mixed approach of looking at other
19 alternatives and a delay in this one, in this project, until
20 those alternatives are looked at seriously and independently
21 of the energy corporation.

22 Thanks for the chance of talking to you.

23 THE CHAIR: Thank you very much,

24 Mr. de la Barre.

25 MS. BENTIVEGNA: Ms. Jacqueline Vigneaux.

1 MS. VIGNEAUX: Thank you for receiving me.

2 I'm Jacqueline Vigneaux. I'm a Whitehorse citizen.

3 I will start and finish with questions. My
4 first question is, is it illegal to community -- to commuting
5 money before the approval process is partially finished? I
6 have heard that there are already lots of millions that are
7 involved in that project.

8 I seriously believe this project encroaches on
9 our basic right to energy security. This volatile source of
10 energy can run out any time. The price of LNG will go up
11 just as lately on March 28th the Ontario Energy Board
12 approved the Enbridge application to boost its rate for
13 natural gas by 40 percent. What will we do?

14 Also, as the river fluctuation changes during
15 winter at minus 45, one of those weeks where we really need
16 to rely on natural gas it can fail us, just as it did in
17 Norman Wells in January a few years ago. They were just
18 lucky.

19 When the unthinkable happens, it is
20 unforgiveable and everything becomes chaotic. To have been
21 in an extended blackout at zero to minus degrees in Quebec,
22 to me it is unforgettable to be in a hospital in the
23 practically dark. You should have seen the panic of the
24 workers.

25 Up here you will have, or we will have, way

1 colder temperatures, shorter daily light to get organized, no
2 immediate outside help, as Quebec had at that time, less
3 merchandise in stock as generator to fill the sudden demand.

4 Bottom of the line, this project is putting
5 Whitehorse security at risk as many people can freeze in the
6 dark. I want this generation of Yukon energy provider to
7 have a broader understanding of renewable energies and
8 climate change. And I oppose this project even more since it
9 is guaranteed that the new source of gas will be using frac
10 gas.

11 I will finish with a question and a
12 suggestion. Did you know that even when fracing is used the
13 problem of progressive leaking over time to the geological
14 strata and wellbore component is thousand times bigger with
15 conventional gas, according to MacDonald, senior geologist,
16 in the Baffin, October 25, 2013, at minute 20.

17 So I will repeat my question. Did you know
18 that when fracing is used the problem of progressive leaking
19 over time to the geological strata and wellbore component is
20 thousand times bigger than with conventional gas, according
21 to McDonald.

22 I suggest this to you, all of you, if you
23 could oppose this project and reverse it. Even before
24 Mr. Morrison to go on his retreat, I would is suggest that
25 this project go to retreat. Thank you.

1 THE CHAIR: Thank you very much.

2 MS. BENTIVEGNA: Mr. Gary Bemis.

3 MR. BEMIS: Hi. My name is Gary Bemis. I
4 live in Whitehorse.

5 YEC's conversion to LNG generators from diesel
6 makes no sense. In fact, it is nonsense.

7 LNG cannot be defined in any language as
8 wisdom. Therefore, any monetary investment by a
9 power-generating facility is not wisdom.

10 What is YEC's proposal here? It's not only to
11 invest in a white elephant, but I suggest it's to invest in a
12 dinosaur.

13 Why is this? To say LNG being sold to the
14 public is clean is a misnomer.

15 Why is this? This is because hidden costs to
16 attain LNG are not analysed in the final formula, and so
17 therefore LNG being sold to the public as cleaner, in the
18 final analysis, does not hold water.

19 The additional cost to obtain LNG is not
20 considered -- or it should be considered by the Board, is
21 pollution of the air, pollution of water in the fracing
22 process, pollution of air in the fracing process. It's an
23 ongoing process long after LNG has disappeared from its use
24 because wells deteriorate, the casings, after four years and
25 it gets progressively worse, so water tends to get more

1 polluted. That's not even in the -- I don't see that in any
2 conversation. Plus methane is released by the fracing
3 process.

4 There's smoke pollution from obtaining LNG,
5 and where does that come from? That comes from clear-cutting
6 of roads to access the wells from where fracked gas is going
7 to come from. This clear-cutting is just burning into the
8 atmosphere. So that's a carbon footprint that the Board
9 should be considering in its decision because there is
10 additional -- just because you put LNG in a generator and you
11 say it's clean, no, there's thousands of steps before that
12 can even be done, which involves a carbon footprint.

13 Plus there's added costs to the health care,
14 and the health care comes from the repercussions of fracing
15 gas, which means putting chemicals into water, which means
16 polluting the air from the gas extraction processes as well.
17 So there's an additional cost to society, which also go into
18 this decision.

19 So to close, this conversion, if it goes
20 forward, will end up supporting an addiction in the future to
21 a commodity which will only increase in costs in the future.
22 So as a business plan, this doesn't even make sense because
23 even before it starts it's -- as it's already being referred
24 to here, the price of LNG gas has gone up, and we're not even
25 paying world market prices yet. So that has to be put in the

1 formula.

2 And so, in the end, I would hope that the
3 Board would see to it that this plan becomes and joins with
4 the dinosaurs.

5 THE CHAIR: Thank you.

6 MR. BEMIS: Thank you.

7 THE CHAIR: Thank you, Mr. Bemis.

8 MS. BENTIVEGNA: Ms. Colleen James.

9 MS. JAMES: Good evening. My name is
10 Colleen James. I live in Carcross, and I'm an energy user,
11 and I pay my rates on a regular basis. I've been a committed
12 customer, if you will.

13 I come here tonight to speak to this proposal
14 to purchase the two LNG generators to replace the old diesel
15 generators that are apparently wearing out.

16 In the notice to come and speak here, you
17 talked about what is prudent, and a number of speakers spoke
18 to it. I actually had to look it up in the dictionary to see
19 what it meant, and after seeing what Oxford had to say about
20 it, I would say that this is not a prudent project to proceed
21 with.

22 And because I'm a mother, I'm a grandmother
23 more importantly, I have 14 grandchildren, all Yukon Canadian
24 human citizens, and it's absolutely important for me to do
25 the best that I can to leave a clean environment, clean

1 water, clean air, to do the best that I can to ensure that
2 their best interests and that their health needs and the
3 environment around them, that those needs are met also. And
4 so it's because of that that I come to speak to you.

5 We are one family, you and I, the squirrel and
6 I, the tree and I, the river and I. We are all one. You and
7 I are made of the same stuff in this universe. We all depend
8 on those things, the things we call elements. What keeps our
9 body at 96-point-whatever degrees, we call it a fire, we call
10 it a spirit. Something keeps that fire going inside of us.

11 We all need water. We all need air. The
12 squirrels need that. The fish needs that. The ants need
13 that. Our relatives, who we depend on, need those things.

14 So I come here to speak on behalf of our
15 relatives, the ones you and I depend on, the ones who share
16 and give relentlessly of themselves to us each and every day
17 that we might eat, whether we're vegetarian or we prefer our
18 hamburger. They give of themselves endlessly, and we take
19 and we take and we take.

20 And I implore you, my human relatives, you,
21 the Utilities Board, Yukon Energy Corporation and Yukon
22 government, please let's take our time. On behalf of life on
23 this planet and our future generations, we can take the time.
24 We can consider all things and do our due diligence and do
25 our homework on behalf of all of creation who's waiting for

1 us.

2 We have forgotten how to speak that language.
3 We've forgotten that we're absolutely connected. We know
4 we're in trouble with the bees. They our pollinators.
5 Without them, we have no food to eat.

6 I don't know about you, Yukoners, but I know
7 northerners have not heard songbirds in recent years. They
8 are disappearing. I tell you right now they are. Because
9 I've been going out in the past few weeks to find them, and I
10 haven't. If that's our canary in the coal mine, it's time to
11 shut the coal mine. And as one family, one species
12 interdependent on every other species on this planet, we can
13 do that.

14 So I recommend, Yukon Utilities Board, let's
15 go with the diesel generator for now and seek out
16 alternatives. We have young people in universities in Canada
17 that are studying the solar power of moss sawed roofs,
18 believe it or not. Your forefathers built those roofs. Your
19 forefathers, our forefathers, knew how to live at one with
20 all of creation.

21 In the 500 years of contact in North America,
22 look at the footprint. It's undeniable. We can't ignore it
23 anymore. You and I have to make the first step, and we have
24 to speak on behalf of our relatives, and not just the human
25 and the formulas and the rates and the numbers. We're in a

1 crisis here. The IPCC has said it; no one is safe. No one
2 is safe. We see it around us.

3 So, please, do our due diligence. We have
4 15-year-old students catching the world's attention in Canada
5 their parents' basement developing flashlights that need no
6 batteries. It only needs human heat to transfer to make that
7 light bulb go. That's amazing. I have faith in our young
8 people and faith in our science and faith that we can wake up
9 and become aware, be conscious, that we are not the only
10 living things on this planet.

11 So I plead with you, let's take our time. If
12 we're going to spend that kind of money, let's do it on our
13 grandchildren and the future generations of all of creation.

14 Gunalchish.

15 THE CHAIR: Thank you, Ms. James.

16 MS. BENTIVEGNA: Mr. Bob Jickling.

17 MR. JICKLING: So my name is Bob Jickling.

18 I'm a long-time Yukoner. Like others, I thank you for the
19 opportunity to speak now, but even more so, I just would like
20 to thank all of the previous presenters. I appreciate the
21 quality of their presentations, and I appreciate the great
22 range of issues that have been brought to bear here this
23 evening. I'm particularly moved by Colleen's presentation
24 just a moment ago.

25 I think that most of the presentations up to

1 date have done a pretty good job of deconstructing the
2 Yukon Energy proposal. I don't think anybody that sat
3 through these hearings can say that there isn't some, at the
4 very least, reasonable doubt about that scheme. There's been
5 a great amount of evidence suggested. It's been very badly
6 conceived and presented. That seems obvious.

7 So what I would like to do is not rehash all
8 of that. In fact, I think that actually takes us a little
9 way away from what really is at stake here, and here I just
10 want to follow, in some ways, what Colleen said and sharpen
11 that up a little bit.

12 People have repeatedly referred to the
13 Intergovernmental Panel of Climate Change report that they've
14 been hearing about today. And we are all in trouble.
15 There's no doubt about that.

16 Every time we hear one of these things, we
17 learn that the previous reports have underestimated the
18 consequences every time. And why is that? Well, really, to
19 understand that we need to understand a little bit about
20 science. It's notoriously conservative. Scientists will do
21 anything -- in fact, it's built into the philosophy of
22 science -- to do anything but give a false positive.

23 We could spend a long time on that, but really
24 that's all you need to know. Scientists will do anything not
25 to give a false positive. So it's enormously conservative,

1 enormously skeptical. So constantly we have underestimated
2 the effects of climate change, and the rate of -- and it's
3 sometimes measured in some ways by things like the rate of
4 glaciers melting and so on. We know that now.

5 There's been some talk about costs. I
6 remember what struck me as a particularly small comment back
7 in one of the YESAB hearings about how a million dollars is
8 going to be saved, or some such figure. But, of course,
9 that's a pretty myopic view of savings.

10 What we know is that if we stop putting carbon
11 into the atmosphere now that the atmosphere would continue to
12 warm for multiple generations because there's a lag before --
13 it will be a lag for a long time before it starts to pool.
14 We know if we stopped now the earth is going to continue to
15 warm for multiple generations.

16 That means when we talk about cost, the cost
17 will not be borne by the ratepayers today or tomorrow or next
18 year or even this decade. In fact, when that cost is being
19 paid, you guys will be dead and so will I. It will be
20 Colleen's 14 grandchildren that will be paying for it and the
21 grandchildren of everybody else that's here.

22 It's not our problem really. We could float
23 through here, and we'll get through, but it will be our
24 children and our grandchildren that are going to pay. That
25 is where the real cost is going to be.

1 And so what I really want to get to is, with
2 regards to prudence, that, yeah, you have to deal with the
3 technical side of this when you -- and I think that of all
4 those people behind me that spoke ahead of time provided
5 plenty of opportunity for you to point to the problems with
6 the technical side of the proposal. But when it comes right
7 down to it, you are making not a technical decision; you're
8 making a moral decision.

9 You might not want to acknowledge that. You
10 might want to pretend that you're not making a moral
11 decision. You might want to stick to the technical facts,
12 but that, in itself, is implicitly a moral decision.

13 This isn't a technical problem. It's a moral
14 problem. And if you have any concern whatsoever for future
15 generations, then treat it as a moral problem. You have a
16 big responsibility on your shoulders to make the right
17 decision here.

18 One of the neat things about the Yukon is that
19 it's small enough to do things differently. We have a
20 manageable population-sized population here, and we can
21 actually -- better than most other places that are a lot
22 bigger than this, we can actually say no to something. We're
23 small enough that we can be nimble enough to actually take
24 alternatives seriously.

25 And so I think it's really pretty

1 straightforward that this proposal should simply be declined.
2 We'll never do something differently, really, if we work it
3 all out in advance. It just doesn't work that way.

4 We need to take a bold decision, and then, as
5 Maryanne Lewis said earlier, we're all here to help you, or
6 to help the people of the Yukon, to then do the right thing
7 and to take us forward. And in doing so, we have the
8 opportunity to show some leadership, and it's an opportunity
9 afforded us, not at least of which, by the manageable size of
10 our population to do that.

11 I think you will have seen -- I think people
12 like our government often like to think that opponents to
13 projects like this are just a bunch of radical
14 environmentalists, but I think it's pretty obvious in the
15 room tonight be that, two things. One, Yukoners are no
16 dummies. We'll be watching how your deliberations are
17 delivered. And I think the other thing is there is actually
18 no community licence to go forward with this project. None.

19 We've been sitting here all evening, and there
20 hasn't been one person that has spoken on behalf of this
21 project. You've got a great cross-section of civil society
22 here. You've got older people like myself, you've got
23 younger people, and you've had people that have come at this
24 from various angles, but there's nobody here that has been on
25 the speakers' list that supports this project. None.

1 So really that's what I would like to say. I
2 don't think there's any civil licence, community licence, to
3 go forward with this project, first; and, secondly, this is a
4 moral decision that you have to make, not a technical one.

5 Thank you.

6 THE CHAIR: So there was one other speaker
7 who was invited to come up and speak earlier but was not here
8 at the time, and I'm just going to call out her name again.
9 It was Heather Ashthorn. If she's not here, then -- so
10 that's the list of speakers that I have on my list. So if
11 everybody's okay with that, I'm going to make some closing
12 comments, and then we'll end this session, community session,
13 tonight.

14 So just in closing this community session this
15 evening, I would like to thank all of you for your
16 participation. Certainly I heard thoughtful and passionate
17 presentations from essentially all of you and good
18 information for us to take into consideration.

19 Your presentations will form part of the
20 record of this hearing and will appear in the transcripts
21 which will be posted on the Yukon Utilities Board website.

22 As I mentioned before, what we heard tonight
23 will be taken into consideration in making our
24 recommendations to the Minister. And I will remind you we
25 only make recommendations; we don't make decisions.

1 So, again, thank you for taking the time to
2 come out. I know people probably had other things they could
3 have done on a beautiful night like tonight. But I do
4 thank you for taking the time to come out, and we do
5 thank you for your presentations. Thank you.

6

7 (Proceedings adjourned at 9:45 p.m.)

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9 PROCEEDINGS CONCLUDED

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1 Certificate of Transcript

2

3 We, the undersigned, hereby certify that the foregoing pages
4 1 to 81 are a complete and accurate transcript of the
5 proceedings taken down by us in shorthand and transcribed
6 from our shorthand notes to the best of our skill and
7 ability.

8 Dated at the City of Whitehorse, Yukon
9 Territory, on April 1, 2014.

10

11

12

_____ "A. Jones"

13

A. Jones, CSR(A)

14

Official Court Reporter

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16

17

18

_____ "D. Gerbrandt"

19

D. Gerbrandt, CSR(A)

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Official Court Reporter

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