

**BRITISH COLUMBIA UTILITIES COMMISSION**  
**IN THE MATTER OF THE UTILITIES COMMISSION ACT**  
**R.S.B.C. 1996, CHAPTER 473**

**And**

**British Columbia Hydro and Power Authority  
British Columbia Utilities Commission Inquiry  
Respecting Site C**

**PRINCE GEORGE , B.C.  
September 29<sup>th</sup>, 2017**

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**COMMUNITY INPUT PROCEEDINGS  
PRINCE GEORGE**

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**BEFORE:**

<b>D.M. Morton,</b>	<b>Commision Chair/Panel Chair</b>
<b>D.A. Cote,</b>	<b>Commissioner</b>
<b>K.A. Keilty,</b>	<b>Commissioner</b>
<b>R.I. Mason,</b>	<b>Commissioner</b>

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## **PRINCE GEORGE, B.C.**

September 29<sup>th</sup>, 2017

**(PROCEEDINGS COMMENCED AT 6:01 P.M.)**

4 THE CHAIRPERSON: Good evening. Thank you for joining  
5 us as we proceed through our two and a half week  
6 schedule of Site C Inquiry community input sessions  
7 around the province. So far we've heard presentations  
8 in Vancouver, Kamloops, Kelowna, and Nelson. We also  
9 opened our first of three scheduled of First Nations  
10 input sessions this afternoon here in Prince George.  
11 We are extremely pleased both by the level of public  
12 interest and the effort that has gone into the  
13 presentations that we have heard in both streams of  
14 input sessions.

15                    My name is Dave Morton and I'm the Panel  
16                    Chair for the Site C Inquiry. I'm also the Chair and  
17                    CEO of the British Columbia Utilities Commission.  
18                    With me today are my fellow Site C Inquiry Panel  
19                    members: Dennis Cote on my left, Karen Keilty on my  
20                    right, and Richard Mason on Karen's right.

This community input session is part of the second important phase of the Site C Inquiry. As you know, we spent the first six weeks of this inquiry collecting data and analysis for many parties interested in and affected by BC Hydro's Site C project. The quality of these submissions was

1 commendable. Many people committed a great deal to  
2 producing a quality submission within the short time  
3 frame that was provided. This affirms what we already  
4 know, that there are experts and affected parties who  
5 can bring us insight into the many complexities of  
6 evaluating the economic impact of the Site C project.  
7 We have the task now of making findings in this  
8 inquiry, and we recognize that our findings are better  
9 with your input.

10 The Order in Council that directed us to  
11 inquire into this project specifically requires us to  
12 consider the cost implications on BC Hydro ratepayers  
13 of three scenarios. One is continuing the project.  
14 Second is suspending the project. And finally,  
15 terminating the project. My Panel members and I  
16 recognize that there are many other implications of  
17 the project beyond cost implications. However, those  
18 implications are not within the scope of us to inquire  
19 into. Considering this, we ask that in the interests  
20 of all parties in the room, please keep your  
21 submissions within the scope of our inquiry.  
22 Submissions made here today, as well as those made in  
23 writing, that are outside of the scope of our review  
24 cannot be considered in our final report to government  
25 on November 1<sup>st</sup>.

26 There's copies of the executive summary of

1           our preliminary report at the entrance table, and the  
2           full report is available on our website or by making a  
3           request through our office if you don't have access to  
4           the internet.

5           A couple of other housekeeping items.  
6           You've just met Mr. Bemister of Allwest Reporting.  
7           He's going to help organize speakers. As you can see,  
8           there's two lecterns up here, and if you can come up  
9           when you see your name getting close to the top, he  
10          will help you get ready to make your presentation.  
11          His team is here with him and they'll be transcribing  
12          these sessions, and they're also streaming the live  
13          audio on our website, which is *SiteCInquiry.com*. And  
14          at the end of the session the written transcript of  
15          the session will be posted on that website.

16          There's some coffee just outside the room  
17          if you haven't found it already. Please feel free to  
18          help yourself. As Mr. Bemister said, we're not  
19          planning to have an organized break, so just feel free  
20          to enter and exit the room to get coffee or water as  
21          you need.

22          The list of speakers appears on the screen  
23          as I indicated, and when your name is at the top then  
24          it will be your turn to speak. And when you do speak,  
25          we ask that you refrain from including personal and/or  
26          confidential information in your talk. This will

1 become a matter of public record because it's  
2 transcribed, and we need to be mindful of sharing any  
3 confidential or personal information other than your  
4 own name. And your own name, we ask you to state your  
5 first name for the record and spell your last name for  
6 the record before you start to speak, please.

You'll have a maximum of five minutes and  
that's what the timer up front is for. If you look  
like you're getting close to the end of your five  
minutes and not getting into a wrap-up period, I'll  
try to nudge you and remind you to do so.

12                   And if you've heard sentiments from prior  
13 speakers that are consistent with yours, you may wish  
14 to just make a note of that rather than restating it,  
15 and then save your speaking time to make any new or  
16 additional points that you would like to make.

With that we're ready to open this session  
in Prince George, B.C. on September 29<sup>th</sup>, and our first  
speaker, Mr. Davis, is that you? Please go ahead.  
Please go ahead, sir.

21 Proceeding Time 6:06 p.m. T37

**SUBMISSIONS BY MR. DAVIS (#0105):**

23 MR. DAVIS: Thank you very much. My name is Mike Davis,  
24 D-A-V-I-S, and I'm just going to sit down. I'm the  
25 Regional Vice President for ICBA. We represent over  
26 2,000 construction companies across British Columbia,

1           which employ around 50,000 people all over the  
2           province.

3           I just want to note a few points from the  
4           report that's been issued by the BCUC. First of all,  
5           I'm here in support of the project and for the next  
6           couple of minutes I can say confidently that 100  
7           percent of the speakers are in support for the  
8           project. Joys of going first.

9           The preliminary report indicates the  
10          project is being well managed by BC Hydro. It's on  
11          track to finish ahead of schedule and the contingency  
12          has grown to over 1.1 billion. While there is some  
13          uncertainty related to estimating the cost of  
14          suspension or cancellation, what we do know is that  
15          taxpayers will be on the hook for approximately \$4  
16          billion with nothing to show for it. No assets.

17          There have been numerous independent  
18          studies reviewed 29 months, provincially, federally,  
19          that conclude that Site C compared to all other  
20          sources of alternative energy is the cheapest and most  
21          effective way to generate clean energy for the next  
22          hundred years. And important to note that with the  
23          increase of electricity demand of over 40 percent over  
24          the next 20 years, this is a real strategic way to  
25          transition from fossil fuels to clean energy for the  
26          future.

1                   And in closing, I just want to conclude  
2                   that the project is 20 percent complete. It's been  
3                   approved at the provincial and federal levels,  
4                   sustained in 14 court cases, and it would be a very  
5                   risky and negative message to send to Canadian and  
6                   British Columbia investors that projects that have  
7                   been approved through their regulatory approvals  
8                   aren't able to finish the crossing line.

9                   So I want to thank the Panel for the  
10                  opportunity speak and thank the other speakers for  
11                  taking time out of their schedules to come. So thank  
12                  you.

13 THE CHAIRPERSON: Thank you, sir.

14                   **Proceeding Time 6:09 p.m. T38**

15                   Ms. Nowak, please go ahead.

16 **SUBMISSIONS BY MS. NOWAK (#0106):**

17 MS. NOWAK: Good evening. My name is Nadia Nowak. I am  
18                  a resident of Prince George and a BC Hydro ratepayer.

19 THE CHAIRPERSON: Could you please spell your last name  
20                  please, Ms. Nowak?

21 MS. NOWAK: Sorry.

22 THE CHAIRPERSON: It's okay.

23 MS. NOWAK: Last name N-O-W-A-K.

24 THE CHAIRPERSON: Okay, thank you.

25 MS. NOWAK: First name N-A-D-I-A. I have walked and  
26                  paddled the Peace River and driven the logging and oil

1 and gas roads and crossed over the W.A.C. Bennett Dam  
2 in Treaty 8 territory. I've got friends and  
3 colleagues that call this place home. I've seen the  
4 scale of development that already exists within this  
5 territory and is intense. I have deep concerns about  
6 the social, cultural and environmental impacts of Site  
7 C. However, I understand the parameters of this  
8 review. And they are also of concern to me as a low  
9 income young person and also because I see the  
10 economic case, or lack thereof, for Site C as an issue  
11 of social justice for all British Columbians.

12 In reviewing the preliminary report and  
13 other submissions I am left with four key questions.  
14 Number one, why is BC Hydro projecting an increase in  
15 energy demand, yet over the past ten years energy  
16 demand has been flat and is expected to continue to be  
17 so? BC Hydro states that this is because of a  
18 greening of electrification of our economy and  
19 vehicles and population growth, and perhaps proposed  
20 LNG proposals that currently don't have a market. But  
21 given that we have several dams in this province, as  
22 well as the potential for Canadian entitlement to the  
23 Columbia River Treaty, why does BC Hydro keep telling  
24 us that we need Site C? We are currently exporting 90  
25 percent of the amount of power that Site C is expected  
26 to produce. Why wouldn't we use more of this power

1           and not build Site C, which is about three times as  
2           expensive? This makes no sense. There is no proven  
3           case to necessitate Site C and the costs that come  
4           with it.

5           My second question: Have we thoroughly and  
6           adequately considered what we could do to reduce  
7           energy demand through conservation or demand-side  
8           management? And what other renewable energy sources  
9           such as wind, solar, or geothermal could meet any  
10          potential future energy demands if they do in fact  
11          transpire, and would these options be more affordable?  
12          Instead of doing this, BC Hydro is reducing focus on  
13          its demand-side management initiatives, dismissing  
14          alternative renewable energy sources, and ignoring  
15          other energy sources that are within their own  
16          portfolio.

17          My third question is: What will the  
18          impact to other job-providing industries in the  
19          province be if their energy rates go up? I am  
20          thinking of energy-intensive industries such as  
21          forestry, but also small businesses who make up a  
22          large portion of the economy in B.C. The Association  
23          of Major Power Producers in their submission to your  
24          review have warned us that an increase of more than  
25          2.6 percent in energy costs will run the risk of some  
26          users no longer being able to afford to operate in

1           British Columbia. I understand that northern B.C.  
2           residents need jobs, and I implore us to think about  
3           how we can create sustainable long-term jobs. I ask  
4           that you do a thorough analysis of the jobs that Site  
5           C provides and the jobs that it puts at risk. My  
6           fourth and last question is: Can you tell me what my  
7           hydro rates will be if Site C proceeds? There are a  
8           few factors to this, notably whether the project will  
9           remain on budget, and if the energy is surplus to  
10          demand and will end up being sold at a loss. There is  
11          considerable reason to think that Site C will further  
12          experience cost overruns. Already the main civil  
13          works contract was **[Redacted per Order of BCUC]** over  
14          budget and two months behind schedule at the get-go,  
15          and already **[Redacted per Order of BCUC]** of its share  
16          of the contingency budget has been eaten up with only  
17          **[Redacted per Order of BCUC]** of the work done. This  
18          is information that's been redacted from the Deloitte  
19          report that has been hidden from the public, and that  
20          being redacted has been supported by --

21          MR. MILLER: Mr. Chair, if I may interrupt, you clearly  
22          warned the presenters not to get into confidential  
23          information, and this presenter has just done that.

24          THE CHAIRPERSON: Would you please avoid having to --

25          MS. NOWAK: Sure, yeah, no problem. I just -- my only  
26          question about it is why is that information being

1           kept secret and being hid from the public on a project  
2           that we are paying for? That's a question I have.

3           Further, there is evidence of cost overruns  
4           being somewhat typical for major dam projects, yet BC  
5           Hydro claims that they will remain on budget. This  
6           despite their own Northwest transmission line having a  
7           cost overrun of almost double from 400 million to 730  
8           million. And BC Hydro is already in debt, partly due  
9           to signing contracts with IPPs where they are buying  
10          power at a loss. This is serious mismanagement of  
11          public money. How much will my hydro rates go up to  
12          compensate for their debt, potential cost overruns,  
13          and having to sell the power below cost given the lack  
14          of energy demand?

15          Based on these unanswered questions, it is  
16          clear that this dam is not worth the damage it will  
17          cause to Treaty 8 territory and to our pocketbooks. I  
18          appreciate your time and review of this now. However,  
19          this review should have been done long before the  
20          existing costs of the dam have been incurred by B.C.  
21          taxpayers and the environmental damages to First  
22          Nations and landowners of the Peace. I implore you to  
23          recommend the cancellation of Site C and the  
24          reclamation of the site, and to provide clear answers  
25          to the questions that I've outlined as part of that  
26          recommendation. Let's invest our money in ways that

1 will create long-term sustainability for northern B.C.  
2 communities that will honour our end of Treaty 8 and  
3 that will truly fulfil our responsibilities for  
4 reconciliation with indigenous peoples.

5                   Thanks for your time and energy on this  
6 very important decision.

7 THE CHAIRPERSON: Thank you, Ms. Nowak.

8 Proceeding Time 6:18 p.m. T39

9 Please go ahead.

**SUBMISSIONS BY MS. GIESBRECHT (#0107):**

11 MS. GIESBRECHT: Thank you. My name is Lori, L-O-R-I, my  
12 last name is Giesbrecht, G-I-E-S-B-R-E-C-H-T.

First off I'd like to say thank you to the  
B.C. Utilities Commission for undertaking this long-  
awaited review of Site C. Will you please do your  
very best to ensure BC Hydro provides you with the  
required information in a timely fashion. Exactly how  
many jobs is C Site providing? And of those jobs,  
what percentage of those employed are British  
Columbians? What percentage are British -- are  
Canadians, I'm sorry, from other provinces? And what  
percentage are foreign workers from other countries?

23 My next thing is, if BC Hydro is currently  
24 exporting 90 percent of the amount of power that Site  
25 C is expected to produce, then why wouldn't we use  
26 more of it, this power ourselves and not build Site C

1           which is three times the cost? With combined costs in  
2           the billions of dollars, why were both Site C and  
3           other megaproject even permitted to start without  
4           reviews? These are two projects that have been  
5           undertaken since 2011, and CC Site and another one did  
6           not have a review and I was just curious to know why.

7           I would like to see somebody take some time  
8           to explore the merging options of geothermal, wind,  
9           and solar energy that are currently on track to  
10          replace all installed global energy generation by  
11          2030. Those alternatives alone will save ratepayers  
12          money. Given that we already have several dams in  
13          this province, as well as the potential for the  
14          Canadian entitlement to the British Columbia River  
15          Treaty, Burrard Thermal, and the Northwest Electrical  
16          Grid, why does BC Hydro keep telling us we need C Site  
17          for backup power? It is essentially a large run-of-  
18          the-river project, isn't it?

19           The era of construction of large  
20          hydroelectric dams is coming to an end, so let's cut  
21          our losses now while we can, and transition B.C. C  
22          Site employees into jobs in solar, wind, and  
23          geothermal power. Then we can move B.C. forward  
24          adding new jobs in this sector around the province as  
25          the need grows, and bring British Columbia to a  
26          cheaper, more climate friendly, happier environment,

1                   with a stronger economy.

2                   We have the power to meet our future energy  
3                   needs at a lower cost to ratepayers with the power  
4                   that's available under the B.C. Columbia River Treaty.

5                   Now that's a better B.C. Thank you so much.

6 THE CHAIRPERSON: Thank you, ma'am.

7                   **Proceeding Time 6:18 p.m. T40**

8                   Please go ahead, sir.

9                   **SUBMISSIONS BY MR. WAGNER (#0108):**

10                  MR. WAGNER: Hello. My name is Chris Wagner. That's W-  
11                  A-G-N-E-R. I'm here as an independent citizen and  
12                  taxpayer and ratepayer.

13                  Back in 2005 I was at the Super 8 Motel  
14                  during the BC Hydro long-term acquisition planning and  
15                  independent -- or basically the long-term energy  
16                  forecasting process. At that point they told us that  
17                  Site C would cost about 3.3 billion. I'll round it up  
18                  to 4 billion to make the math a little bit easier. So  
19                  at that point they said that they were considering  
20                  four different alternatives. Three of them included  
21                  Site C. One of them did not. One of them was green  
22                  certified. The green certified option cost about 5  
23                  percent more than the least expensive option.

24                  So assuming that the difference in cost  
25                  could be attributed solely to the electricity  
26                  generated by Site C, that would mean that the cost at

1           that point would have been 4.2 billion for that  
2           alternative plan which Hydro had on the books.

3           Now, Site C's estimate has increased to 8.3  
4           billion. That's more than a hundred percent increase  
5           in the last 12 years. So that would mean then that if  
6           we'd have gone for that green option at that point, we  
7           would be saving \$4.1 billion compared to building Site  
8           C. Now, I hate spending money and getting nothing for  
9           it, absolutely detest it. But I also hate throwing  
10          good money after bad. And in this case I have to  
11          assume that what we've already spent is bad money, and  
12          that pursuing this project further is just wasting  
13          money on a bad idea, just to prove ourselves right.

14          Now, this also doesn't factor in some of  
15          the other costs that come from building Site C. The  
16          fact that it's destroying agricultural land in the  
17          Peace River Valley, creating more dependency in that  
18          area on foreign agriculture, on agriculture that has  
19          to be trucked in, agriculture that requires greater  
20          use of fossil fuels to transport it. Of course the  
21          rest of us in the province don't have to bear that  
22          expense. It's only the people in the Peace that have  
23          to bear it.

24          It also doesn't consider that if we've sunk  
25          so much money into Site C, we'll have less money  
26          available to distribute power to outlying communities

1 that are currently on diesel generation, thus  
2 increasing our reliance on diesel generation to  
3 provide electricity to remote communities like Fort  
4 Nelson, like the Bella Coola Valley, like on Haida  
5 Gwaii.

6 So I'm really not sold that this is a good  
7 idea, that this is an effective use of my money, and  
8 that my electricity company, Hydro, should be spending  
9 their money on it. Thank you.

10 THE CHAIRPERSON: Thank you, sir.

**Proceeding Time 6:21 p.m. T41**

Please go ahead, ma'am.

**SUBMISSIONS BY MS. BACHMEIER (#0109):**

14 MS. BACHMEIER: Hi. My name is Barbara Bachmeier, B-A-C-  
15 H-M-E-I-E-R. I'm a citizen of British Columbia and  
16 for anyone in the room that isn't aware, I am for Site  
17 C.

Past, present and future, let's take  
cashiers for an example of where we've been. In the  
early sixties when you went to the grocery store, the  
cashier typed in each individual item and the price  
came up in glass in front of the customer and on the  
other side for the cashier to see. These were high  
paying jobs because the cashier had to remember all  
the prices for each item. In the mid-sixties when the  
W.A.C. Bennett Dam came on stream, cash registers

1           became electric. However, the cashiers still had to  
2           remember the prices, so cashiers were still paid well.  
3           The new capacity of this dam gave us enough  
4           electricity to advance new technology for cash  
5           registers.

6           Today, cash registers are electronic and  
7           have scanners that read the schemes on each item so  
8           that the cashiers only have to remember a few prices  
9           for specific items like tomatoes, since you can have  
10          roma tomatoes, field tomatoes, hothouse tomatoes and  
11          even organic tomatoes. However, after the fires this  
12          year when everyone was evacuated from Williams Lake  
13          and 100 Mile House, many did not return to places like  
14          Save On Foods. I was shocked and appalled to learn  
15          the reason why was because they are barely paid above  
16          minimum wage. I could see why they had not returned.  
17          Hopefully they found better jobs elsewhere.

18           Tomorrow, the future. I see there will be  
19          no cashiers because everything will be electronic. A  
20          shopper goes into the store, scans the prices into the  
21          electronic device, which then deducts the cost out of  
22          their bank account or they just order online and the  
23          items are delivered.

24           Dam issues. This dam will flood about 800  
25          hectares of land. This province burnt one million  
26          hectares this year alone, along with countless numbers

1           of jobs that go along with that burnt land: timber,  
2           range land, all burnt. 800 hectares is 1/1000<sup>th</sup> of  
3           that amount of land, 1/1000<sup>th</sup>. This particular 800  
4           hectares is for the most part either hay fields or  
5           unused land. Up on the benches of the Peace River  
6           they grow canola, grains and hay along with cattle and  
7           other animals. There's plenty of remaining land in  
8           the Peace River area. Some say some animals will  
9           drown. I doubt that very much as the water will rise  
10          over a period of decades. Fish ladders will be  
11          installed for the fish and there is a mitigation  
12          process to move fish in the meantime.

13                 Two homes will be impacted apparently.  
14                 They are supposed to be moved. One was built by  
15                 someone's grandfather and the family has an emotional  
16                 attachment to it. I get that. However, when the  
17                 grandfather's home was built I can pretty much  
18                 guarantee that it is not up to today's current, more  
19                 stringent building code. And further to that is the  
20                 fact that apparently the new *B.C. Building Code* will  
21                 require that all new detached homes will have charging  
22                 station plug-ins for electric vehicles. This will not be  
23                 110 for regular household use. This will not be  
24                 220 for drivers or stoves. It will be 330 amps and  
25                 correct me if I'm wrong in the terminology. I'm not  
26                 an electrician.

1                   First Nations people, forgive me if I sound  
2 disrespectful in any way here, as that is not my  
3 intention. I have worked alongside some First Nations  
4 people at Site C. They are very good, qualified and  
5 knowledgeable people. They are very hard workers. I  
6 believe working on this hydro project gives them hope  
7 for the future, their children's future, and their  
8 families' future. This can build their culture and  
9 remove poverty at the same time. How many First  
10 Nations in this country have this opportunity to build  
11 a better future on their own land? I hear too many  
12 stories and rampant poverty and hopelessness on  
13 reserves. Children taking their own lives. This is  
14 so totally heartbreaking and unnecessary.

15                  Some are saying we should be installing  
16 wind capacity or solar capacity instead of  
17 hydroelectricity. I heard that Germany is shutting  
18 down their wind turbine program by 2019 as it is too  
19 expensive and does not create the capacity that is  
20 needed. In my own opinion, we should install wind  
21 turbines on every high-rise in Vancouver.

22                  As far as the solar farms are concerned,  
23 where would you plan to put those? In the north where  
24 they will be covered by snow for six to eight months  
25 of the year? Think of the energy that we would need  
26 to keep them clear of snow. Maybe on the roofs in

1           Vancouver. Hmm, rains most of the time there. Maybe  
2           we can install generators instead like on Haida Gwaii.  
3           Let's go backwards.

4           The future. My understanding is that the  
5           BCUC told the B.C. Liberals that we would need the  
6           capacity from Site C in ten years. Why are we wasting  
7           time and money on this review? In order for our  
8           economy to move forward, we are going to need more  
9           hydroelectricity capacity. The only way to get that  
10          is to build Site C now, not in ten years. Hydro is  
11          reliable power. It is there when we need it. We can  
12          refurbish our current hydroelectric dams but that will  
13          not create more capacity.

14          I foresee everyone having electric vehicles  
15          in 10 to 20 years. We need to electrical capacity for  
16          that. I foresee Highway 37 to Dease Lake having a new  
17          electrical grid so that new mines that will supply  
18          metals and minerals for cell phones and batteries and  
19          health technology and any number of other items coming  
20          in the future, we'll need electricity for that. BC  
21          Hydro is planning on putting new hydro lines into  
22          Wells and Barkerville in order for Barkerville Gold  
23          Mines to be on the grid instead of using diesel  
24          generators. Gregor Robertson is in fact wanting to  
25          get rid of natural gas in Vancouver, so what are we  
26          going to replace it with? I would suggest clean

1                   energy hydroelectricity.

2 THE CHAIRPERSON: Ma'am, I just want to remind you of the  
3 time. I wonder if you could start on a wrap-up.

4 MS. BACHMEIER: I have two more, couple more.

5 THE CHAIRPERSON: Yeah, okay.

6 MS. BACHMEIER: Okay, so I see an underwater hydro line  
7 going to Haida Gwaii to help them with their problems  
8 and get them off of diesel generators. Amazon is  
9 looking to build an HQ2 in this country or North  
10 America. Let's just see that they -- you know, we  
11 could build that in Prince George as a matter of fact.  
12 We've got the land. We just don't have the energy  
13 capacity.

14                   Getting back to my cashier story, someone  
15 had to build new cash registers. The new technology  
16 was developed that could have given people a decent  
17 living wage. This is where we are today.

18                   Thank you and I hope you build Site C.

19 THE CHAIRPERSON: Thank you very much, ma'am.

20                   **Proceeding Time 6:28 p.m. T42**

21                   Gerald Lundquist? Thank you. Mr.  
22 Lundquist, please go ahead.

23 **SUBMISSIONS BY MR. LUNDQUIST (#0110):**

24 MR. LUNDQUIST: Good evening, ladies and gentlemen. My  
25 name is Gerry Lundquist and this will be a personal  
26 presentation. I represent no specific group and thank

1 you for listening.

2 My experience includes my 28-year  
3 employment with B.C. Rail as an account manager, where  
4 my portfolio included business development. Operation  
5 and economics were crucial and B.C. Rail was one of  
6 the top performing railways when it was sold in 2004.

7 Site C, a vision. B.C.'s economy and  
8 social well-being is very closely linked to the  
9 availability of inexpensive, clean hydroelectricity.  
10 I would like you to consider British Columbia's  
11 economy had the former governments waited until we had  
12 a desperate need for electricity before pressing  
13 through the many objections. How many dams would be  
14 built and how would our positive economy look today?

15 I would like you to consider in the  
16 economic review the following: (1) the return of tax  
17 dollars from wages earned; (2) the potential for  
18 industrial development; and (3) the potential peak  
19 demand failures.

20 Number one, the return of tax dollars.  
21 Much of the \$8 billion invested will find its way back  
22 to governments via taxes, both personal and corporate.  
23 The Fraser Institute estimates that 43 percent of  
24 average Canadian earnings are returned to the  
25 government in the form of taxes. Estimating that 50  
26 percent of the \$8 billion investment is paid out in

1           wages, either directly or through those employed in  
2           other areas like transportation, hotels, restaurants,  
3           and offsite production, offsite production being a  
4           very big item. At 50 percent and at 43 percent of  
5           that going back in taxes, \$2 billion would be  
6           distributed back to taxes over the life of  
7           construction. Returning government tax revenues  
8           should be considered in your analysis.

9                 Number two, the potential for industrial  
10          development. Industrial development is related to  
11          energy availability. The LNG industry has invested  
12          \$20 billion in B.C. in recent years, and although a  
13          number of LNG proposals have been cancelled, it is  
14          reasonable to expect that one or two of the initial 16  
15          ventures will move forward. The power required for  
16          LNG production will be better supplied from clean  
17          hydroelectricity rather than burning valuable natural  
18          gas, natural gas that could provide an extended  
19          lifetime for the business case for an LNG venture.

20                 I suggest to the Commission that the  
21          cancellation of Site C would be a self-fulfilling  
22          prophecy in that no LNG business will develop and  
23          other industries will look at B.C. and say B.C. is  
24          closed for business. Yes, we might then correctly say  
25          we don't need Site C, but can we afford that?

26                 Alberta has made the commitment to purchase

1       5,000 gigawatts of clean energy by 2030. Alberta is a  
2       potential alternate customer for BC Hydro should B.C.  
3       enjoy the availability of surplus electricity in 2024.

4                  Number three, peak or potential peak power  
5        demand failures. In the Deloitte report it is noticed  
6        that B.C.'s population is expected to continue to  
7        grow, and it is expected that soon 30 percent of B.C.  
8        vehicles will be electric. Last winter BC Hydro  
9        experienced the highest electrical demand ever, while  
10      cold weather covered British Columbia. Consider what  
11      might happen in the winter and cold when numerous  
12      Vancouver residents return to their homes in their  
13      Teslas between 5:30 and 7:00 p.m. and plug the cars in  
14      to charge. Combined with the peak dinner hour demand  
15      and the demand for heat throughout B.C., will we have  
16      enough power? At that same time, somewhere in the  
17      cold interior, Fortis Energy has a problem with  
18      natural gas supply and people switch on their ovens  
19      for heat. Wind energy is limited because of the low  
20      wind speed, and solar energy is limited by short days  
21      and low sun intensity. Only good old reliable hydro  
22      power is available. Will we have enough?

23                  The cost and potential loss of life if we  
24      lost either natural gas or electricity at a cold time  
25      would be substantial. I doubt anyone would take  
26      comfort in knowing that on an annual average we have

1 sufficient electricity. We need to ensure we can meet  
2 our peak power demand.

In conclusion, how would B.C.'s economy and related job market look today if previous governments stood still until they were pushed into action? Where there is energy there's the potential for industry and a good economy. With Site C we are preparing for the future, whether it be 2024 or 2030. Without Site C we will later wallow in the apprehension of today.

10 | Thank you.

11 THE CHAIRPERSON: Thank you, sir.

12 Proceeding Time 6:34 p.m. T43

13 Please go ahead, sir.

**SUBMISSIONS BY MR. WILLIAMS (#0111):**

15 MR. WILLIAMS: Hello. My name is Don Williams, W-I-L-L-I-  
16 M-A-S. I'm the Prince George division manager of  
17 All North Consultants Limited. I'm also an owner, and  
18 I'm an engineer. Thanks for the opportunity to speak  
19 on what the Site C project means to myself and the  
20 company I represent. We are in favour of Site C.

21 All North is an employee-owned consulting  
22 engineering company which provides engineering and  
23 technical services to the public and private sectors.  
24 All North started business in Prince George in 1978  
25 and has grown to a staff of 400 people, spread over 14  
26 locations around Canada and the U.S. We employ 65

1           staff in our Prince George office, which is our  
2           largest office in our company.

3           We've been involved in the Site C project  
4           since 2014. We've worked on many aspects of the  
5           project, both directly for BC Hydro and also for  
6           various contractors that are working on it. Some  
7           projects of note within the project that we've worked  
8           on, worked on the construction bridge that accesses  
9           both sides of the river, south bank and north bank for  
10           engineering and material testing services. The main  
11           civil works, which is ongoing right now, both  
12           environmental engineering and material testing on the  
13           left bank of the project. There's a slurry wall that  
14           we've been involved in. And there's a Portage  
15           Mountain rock source that we've been involved in  
16           engineering for that.

17           To date, All North spent over 40,000 man-  
18           hours on the project, which resulted in a revenue for  
19           our company of about \$4.6 million. We're projecting a  
20           future revenue over the life of the project, if it  
21           continues on, of an additional \$10 million or 87,000  
22           man-hours. For us, that's a huge impact for our  
23           company. It's a very small part of the project  
24           overall, though.

25           It's been a considerable portion of our  
26           business and it's a direct contributor to our ability

1 to retain and employ staff not only in our Prince  
2 George office, but also in other supporting divisions  
3 across B.C. It's provided long-term stability that is  
4 welcomed by our staff and their families, as it  
5 provides comfort that there is employment  
6 opportunities for the foreseeable future.

Also provides All North with the opportunity to be able to give back to the community as we have been able to direct some of the revenue we have gained into worthy local causes. An example, we support the Prince George Relay for Life, which we've been an event sponsor for the last three years.

In addition to the direct economic impact  
of the Site C project has had on our company, we  
believe that the project is in the best interests of  
the province of British Columbia, as it will provide  
clean energy for future generations. I hope my  
comments provide assistance for your inquiry.

19 | Thank you.

20 THE CHAIRPERSON: Thank you, sir.

Proceeding Time 6:37 p.m. T44

22 Ms. Connolly.

23 MS. CONNOLLY: My last name is Connolly.

24 THE CHAIRPERSON: Thank you.

**SUBMISSIONS BY MS. CONNOLLY (#0112):**

26 MS. CONNOLLY: C-O-N-N-O-L-L-Y. Thank you to the Panel

1 for hosting this input session on your preliminary  
2 report. You've been asked to advise the Lieutenant  
3 Governor and Council on some options on how the Site C  
4 dam project should proceed, so I would like to make  
5 two points about the true costs of this project and  
6 why those costs prevent it from being justified.

7 My first point is about demand-side  
8 management. As I understand, BC Hydro has been  
9 reducing its efforts to address the consumption of  
10 electricity it produces through programs like  
11 PowerSmart. This is a big problem. We need to be  
12 placing more emphasis on managing the demand for  
13 energy by households, institutions, and industry  
14 before we consider spending money on power projects  
15 that have massive ecological footprints like Site C.  
16 And this includes other types of projects considered  
17 green as well. This is the simplest and most obvious  
18 way to minimize costs to B.C. ratepayers.

19 My second point is about the valuation of  
20 ecosystem services. As much as I bristle at the idea  
21 of placing a monetary value on nature and its  
22 processes, it's warranted here because the other  
23 material costs of this project have been quantified  
24 and articulated by BC Hydro and others. By not  
25 placing a cost on the loss of flood plain forests,  
26 food production, carbon storage, and other ecological

1 assets and functions in the area, we place their value  
2 at effectively zero. This is bad accounting. If we  
3 properly ascribed value to what would be lost, with  
4 the completion of this project, we might find that  
5 terminating it would be the most cost-effective  
6 option.

7 The money that has been spent on this  
8 project so far is money that will never go towards  
9 fixing schools, assisting our health-care system, or  
10 helping us conserve threatened natural ecosystems, for  
11 example. In Oregon and California state officials  
12 have recently signed agreements for the removal of  
13 four hydroelectric dams, and over a thousand dams in  
14 the U.S. have been decommissioned since 2015.

15 So like Lori mentioned earlier, dams are  
16 not a thing of the future, they're a thing of the  
17 past.

18 Perhaps the two tension cracks that have  
19 opened up in the cleared Peace River banks should be  
20 telling us something.

21 The construction of a project that should  
22 have been put under your scrutiny a long time ago has  
23 already begun, and I know this complicates the  
24 calculations you have to make about what to recommend.  
25 But this is an opportunity to avoid the inevitable  
26 costs this project will incur if it's completed.

1 Thank you very much.

2 THE CHAIRPERSON: Thank you, ma'am.

Proceeding Time 6:40 p.m. T45

4 MR. EWART: Good evening.

5 THE CHAIRPERSON: Good evening.

**SUBMISSIONS BY MR. EWART (#0113):**

7 MR. EWART: My name is Peter Ewart, and I'm a columnist  
8 and retired college instructor living in Prince  
9 George. My last name is spelled E-W-A-R-T.

10                   Thank you for providing me the opportunity  
11                  to speak today regarding the economic viability of the  
12                  Site C dam project. To begin, the Site C project  
13                  constitutes the largest public works expenditure in  
14                  B.C. history, with an estimated cost of 8.8 billion,  
15                  and possibly billions more, depending on a number of  
16                  factors. Indeed, at current estimates, one prediction  
17                  puts the cost at about \$5,000 per B.C. household.

As such, the project deserves the most rigorous scrutiny on the economic front, as well as other fronts. But a number of alarm bells are ringing loudly not to go ahead with this huge project. But although it will benefit some big construction companies, banks, and lending institutions, as well as oil and gas corporations, it will not benefit British Columbians as a whole. Far from it. It promises to be a huge white elephant.

1                   What are some of these alarm bells? The  
2                   first one rang loud and clear back in the 1980s when  
3                   BC Hydro put forward a proposal to build the Site C  
4                   dam. It was rejected by the B.C. Utilities Commission  
5                   of that time on the grounds that it was not needed and  
6                   that BC Hydro's forecasting of electricity demand was  
7                   faulty. The second alarm was in the late 1980s when  
8                   the proposal was revived. However, by 1993 even the  
9                   head of BC Hydro at that time, Marc Eliesen, declared  
10                  that the Site C project was dead because the fiscal  
11                  exposure was too great, the dam too costly, and the  
12                  environmental impact unacceptable.

13                  Despite the earlier turn-downs and to the  
14                  surprise of many, the B.C. Liberal government in 2010  
15                  put the Site C project back on the table, which since  
16                  then has set off a chorus of alarm bells. In 2013, a  
17                  federal and provincial joint review panel ruled that  
18                  BC Hydro had not fully demonstrated the need for the  
19                  project on the timetable set forth, and recommended  
20                  that the project demand estimate and other aspects be  
21                  referred to the B.C. Utility Commission for review.  
22                  Since then, Harry Swain, former chair of the joint  
23                  review panel, has warned that the electrical power for  
24                  the dam will not be needed, and that British  
25                  Columbians will end up paying for a huge stranded  
26                  asset for years to come.

1                   In 2013, energy expert Robert McCullough  
2 and economist Dr. Murray Shaffer issued a report that  
3 concluded there is not a need and justification for  
4 Site C as proposed by BC Hydro, and that there were  
5 far cheaper energy alternatives.

6                   And in 2017, researchers with UBC's program  
7 on water governance called for a suspension of the  
8 Site C project on the grounds that the business case  
9 for the dam project is weak, as a result of "a  
10 dramatic decline in projected energy needs, and that  
11 the economic risks will likely only magnify as time  
12 goes on."

13                  These are loud bells that are ringing, but  
14 they are not all of them. For example, some sections  
15 of the corporate establishment in the province,  
16 especially in the forestry and other resource sectors,  
17 have also raised the alarm bell about Site C. Richard  
18 Stout, the then-executive director of the Association  
19 of Major Power Customers of B.C., stated in 2014 that  
20 the original load forecasts put forward by BC Hydro  
21 are going to be wrong, and that it is not the right  
22 project right now.

23                  Another former executive director of the  
24 association, Dan Parks, argues that the huge cost of  
25 Site C will rob the province of valuable resources  
26 that could be used to deliver other needed government

1           services as well as burden the B.C. economy with debt  
2           and high electrical power rates. David Austin, a  
3           lawyer on energy issues, discovered in the cross-  
4           examination of BC Hydro executives in 2016 that the  
5           Site C project will not be paid off until 70 years  
6           after it is completed.

7           Most recently, Deloitte, the consulting  
8           firm hired to look at BC Hydro's numbers, has cast  
9           doubt on both BC Hydro's estimates as well as its  
10          scheduling for the project.

11          But perhaps the biggest alarm bell of all  
12          is the fact that the former B.C. Liberal government  
13          chose to bypass your organization, the B.C. Utilities  
14          Commission, and push through the Site C project  
15          without receiving your regulatory approval of  
16          recommendations. Why would it do such a high-handed  
17          anti-democratic thing? This has raised serious  
18          questions about the B.C. Liberal government's motives  
19          from day 1. Indeed, it is only because a new  
20          government has been elected that you now have an  
21          opportunity to review the project, albeit in a limited  
22          way.

23          It also raises the issue that we need  
24          better decision-making processes, democratic ones that  
25          put important economic decisions into the hands of  
26          British Columbians, not manipulative politicians or

1                   powerful corporate interests.

2                   There are more alarm bells, but I will stop  
3                   there. The question before you today is, given that  
4                   all of these alarm bells are ringing so loudly and  
5                   persistently, will they be ignored or will they be  
6                   heeded? In my opinion, in the interests of all the  
7                   people of British Columbia, these alarms should be  
8                   heeded and the Site C project cancelled.

9                   Thank you.

10                  THE CHAIRPERSON: Thank you, sir.

11                  **Proceeding Time 6:45 p.m. T46**

12                  **SUBMISSIONS BY MR. WERNER (#0114):**

13                  MR. WERNER: Hi, my name is Jeff Werner, last name W-E-R-  
14                   N-E-R. It occurs to me this is a very important  
15                   process, and thank you for this opportunity to talk,  
16                   and to host this.

17                  I'm a biologist, so a lot of my concerns  
18                   are outside the scope of what you're concerned with  
19                   today. But notwithstanding the environmental forfeits  
20                   associated with Site C, I think there are two issues  
21                   pertinent to this consultation process which you have  
22                   heard already, and you will hear many times over. For  
23                   my own benefit, I'd like to frame them as two very  
24                   simple questions.

25                  The first question, the most obvious one,  
26                   can we justify the need for this massive project?

1       This is best considered by projecting future demand  
2           for energy.

3           The second question, can we justify the  
4           costs? These are costs to the rate user, to the  
5           taxpayer.

6           Looking at this first question, I'd like to  
7           make the observation that the demand for electricity  
8           has been relatively flat now for almost a decade and a  
9           half, despite the fact that the number of BC Hydro  
10          customers has increased by half a million. We're told  
11          also that our economy has increased by 50 percent.

12          It's my understanding that BC Hydro  
13          currently has enough surplus energy to sell to the  
14          United States every year an amount of which roughly  
15          adds up to the proposed amount to be produced by the  
16          Site C dam itself. From a demand perspective, and  
17          from a supply perspective, B.C. doesn't need Site C.

18          In terms of our second question, can we  
19          justify the costs, the cost to the rate user, I would  
20          argue that first of all given the fact that it does  
21          not appear that we need this energy, any increased  
22          costs to domestic users is strong grounds for  
23          dismissing this project.

24          I'd like to just frame this in one very  
25          simple question that it occurred to me on the drive  
26          over, really sums up what I think a lot of us feel.

1        Why should I be paying more for the electricity I now  
2        use to pay for the production of electricity I do not  
3        need, so it can be sold at a loss on the U.S. market?  
4        Is this in your best interests? Is this in mine? I  
5        don't suspect so.

6                      Thank you.

7 THE CHAIRPERSON: Thank you, sir.

8                      **Proceeding Time 6:49 p.m. T47**

9                      **SUBMISSIONS BY MS. CROWLEY (#0115):**

10          MS. CROWLEY: My name is Hilary Crowley, C-R-O-W-L-E-Y.  
11          I live at Summit Lake. Thank you for this opportunity  
12          to contribute to the Site C B.C. Utility Commission  
13          hearings. I want to be clear that I am opposed to the  
14          building of Site C, and this is on many grounds:  
15          indigenous rights, environmental factors, food  
16          security, and economics.

17          The UBC report gave evidence that it would  
18          be in our financial best interests to stop  
19          construction of the dam now. The jobs which would be  
20          impacted can be transferred to remediation in the  
21          short term, and to renewable energy projects in the  
22          long term.

23          The B.C. Utilities Commission interim  
24          report on the economic viability of Site C raises many  
25          unanswered questions. Furthermore, it has found that  
26          BC Hydro failed to assess geothermal, biomass, solar,

1           and battery storage alternatives to Site C before it  
2           went ahead with the project. Nearly half of its  
3           contingency funds have also already been used, only  
4           two years into the eight-year project. These are all  
5           alarming facts.

6           The projected costs of the project are more  
7           than B.C. taxpayers or ratepayers should be saddled  
8           with for generations to come. The land around Halfway  
9           River and Bear Flats on the Peace River is of utmost  
10          importance to the West Moberly First Nations. When  
11          Chief Roland Willson and his brother, Councillor  
12          Clarence Willson, first heard of the resurrection of  
13          this project, they were stunned and became very  
14          emotional and close to tears. The land is of utmost  
15          cultural importance to them.

16          Since our commitment to the actions of the  
17          Truth and Reconciliation Commission, we should be  
18          abandoning the Site C if only to show our respect for  
19          First Nations' rights. It was extraordinary that  
20          alternative energy sources such as wind, solar,  
21          geothermal, and biomass weren't even considered by BC  
22          Hydro. Because of the B.C. government's commitment to  
23          the Site C mega-dam project, a large wind energy  
24          project on Vancouver Island was cancelled last year  
25          and moved elsewhere. This is unfortunate, as these  
26          other alternative energy sources are far more

1           environmentally friendly, at a fraction of the cost of  
2           a mega-dam. Hudson Hope itself, the closest community  
3           to Site C, has recently gone totally solar. It shows  
4           how, when a government embraces a new concept, it can  
5           be done efficiently and help B.C. to embrace the 21<sup>st</sup>  
6           Century rather than be stuck in the past using old  
7           technologies.

8           LNG is obviously a twilight industry and if  
9           this was considered the main reason for the need for  
10          Site C, it was obviously a big mistake.

11          The Peace River Valley is a prime  
12          agricultural land. Food and water are the main  
13          necessities of life. It makes much more sense to grow  
14          food locally rather than rely on long-distance  
15          shipping of produce from areas that are threatened by  
16          drought, such as California. As the climate warms,  
17          more variety of produce will be able to be grown in  
18          the north to supply areas in the south which might be  
19          suffering droughts.

20          Building dams for energy is outdated. The  
21          cost of renewable energy sources like wind and solar  
22          have decreased substantially in the last few years,  
23          and building another dam over the Peace River does not  
24          make sense.

25          The B.C. government gives BC Hydro  
26          preferential treatment for Site C by not requiring

1 annual dividends and by forgiving charges that were  
2 eliminated from the Site C budget. This amounts to a  
3 subsidy which makes it more difficult for alternative  
4 energy technologies to compete with BC Hydro, as with  
5 the U.S. investment for wind energy on Vancouver  
6 Island which was driven away last year.

We haven't even talked about the wildlife.  
This valley is prime habitat for many species of large mammals. Disturbance of this habitat through construction, depletion of forage, and destruction of migration routes, could seriously threaten our wildlife, many species of which are already declining.

I urge the B.C. Utilities Commission to seriously consider all these values in their decision-making, and not just the bottom line. The social, environmental, and economic costs are all of equal importance. I believe that construction of Site C is not needed, will be a huge burden to the taxpayers and ratepayers, and is socially, environmentally, and economically not justified. I ask for cancellation of this project.

22 | Thank you.

23 THE CHAIRPERSON: Thank you, ma'am.

24 Proceeding Time 6:54 p.m. T48

**SUBMISSIONS BY MR. EGAN (#0116):**

26 MR. EGAN: Hi, my name's Patrick Egan, E-G-A-N. I'm a

1 professional civil engineer. I'm not a hydro expert.

2 I have lived in Prince George for over 30  
3 years, and I've worked in the north for over 35 years.  
4 And I actually started my career on the Revelstoke  
5 project. And one word I remember from that one is  
6 wobbles [sic]. It's amazing the things that will  
7 drive up the price of these projects, so.

8 I am opposed to the project, along with my  
9 good wife, for varying reasons.

10 This site was chosen in the 70s, and that's  
11 40 years ago. And I'm wondering, is that still  
12 relevant? The one thing that really I question is,  
13 with all the technical advantages -- technical  
14 advances, that we do not look at the other sites --  
15 Site A, Site B, maybe A-minus or B-plus. We're giving  
16 up 85 kilometers of river and I'm questioning whether  
17 that is going to be a good decision or not.

18 It seemed very apparent to me in the  
19 Commission's preliminary report from Hydro that this  
20 was an LNG-driven project, and we all know that that's  
21 not going as expected. We'll be lucky if we get two  
22 plants. It looks like the one in Squamish is going to  
23 be successful. And hopefully with all the money that  
24 we have expended in the northwest of the province, the  
25 second one will show up there some day.

26 I've been looking at the Canada census. We

1 now have growth for B.C., 5.6 percent in the five-year  
2 period from 2011 to 2016. That's a little over 1  
3 percent annually. I think that's -- to me I would  
4 recommend that that's probably a good figure for the  
5 Utility Commission to use for what kind of demand we  
6 might see. But we'll hardly be able to hold on to  
7 their part of that power production if our rates keep  
8 climbing, based on the cost of this project. And we  
9 all know that this project is going to go up.

10 We're at 9 million now, that doesn't --  
11 sorry. Yeah, 9 million, and that doesn't include the  
12 transmission lines which is another million, moving  
13 Highway 29 figures in there too. So we're at \$10  
14 billion, sorry. And if I was going to take a good  
15 guess, it's going to be \$11 billion by the time it's  
16 said and done.

17 There was -- the Utility Commission has  
18 picked up on a lot of things that they're alternatives  
19 to supplying this power that Site C is going to -- but  
20 one I think that we've missed, and that is that Rio  
21 Tinto now has Phase 2 of the Kemano project in the  
22 works. And I think BC Hydro is going to have some  
23 competition to who's going to supply the power to the  
24 LNG plant in the north. I have actually had the  
25 pleasure of standing in the power plant at Kemano, and  
26 it's big. And they are going to be able to do things

1                   with that.

2                   So, when I asked why we needed that  
3                   reservoir, I've asked a few of my fellow engineers,  
4                   I've never really got a good answer. Hydro's the  
5                   expert, so -- but why is Hydro the expert? This is  
6                   the first dam that they've built in a country like the  
7                   Peace, and the Peace, let me tell you, is a tough  
8                   place to build. And we have a country there that is  
9                   moving, the ground is moving in that area. We have no  
10                  materials, like granular materials and rock. Hydro is  
11                  probably going to be hauling rock over 100-plus  
12                  kilometers, and what that's going to do to road  
13                  structures and everything else.

14                  And then the last thing in the Peace is a  
15                  very short construction season. When it gets wet,  
16                  come about now, October/September, it doesn't dry out.  
17                  And that's hard work to construct. The costs are  
18                  going to go up. I noticed on CBC news today that the  
19                  Construction Association says there's a construction  
20                  boom in B.C. right now. Right now, there's a 15,000  
21                  worker shortage, they say. So I can see where these  
22                  workers are going to go.

23 THE CHAIRPERSON: Sir, if you could -- we're running out  
24                  of time, so if you could start to wrap up, that would  
25                  be great.

26 MR. EGAN: Yeah. And then I -- just my last comment. I

1 noticed 600 million for remediation, and all I can say  
2 is, that's a Cadillac remediation, so I hope the  
3 Commission looks into what's involved in that.

4 Thank you very much.

5 THE CHAIRPERSON: Thank you, sir.

**Proceeding Time 6:59 p.m. T49**

## **SUBMISSIONS BY MS. BAUMAN (#0117):**

8 MS. BAUMAN: My name is Erin Bauman. I'm a resident of  
9 Prince George. My last name is spelled B-A-U-M-A-N.  
10 And I'm here today to address the members of the B.C.  
11 Utilities Commission Site C review panel on behalf of  
12 a local volunteer organization, Sea to Sand. We have  
13 a membership of approximately 1,000 people and our aim  
14 is to inform residents about industrial developments  
15 that pose risks to the environmental, social,  
16 cultural, and economic sustainability of northern B.C.  
17 communities.

18                   We acknowledge that we are meeting today on  
19                   the unceded territories of the [*non-English*].

As an organization, we are deeply concerned about the impacts of the Site C hydroelectric dam on First Nations who have not consented to the construction of this mega-project on their territories, and who are still living with and experiencing the profound and deeply harmful impacts of the flooding of the Williston Reservoir during the

1 construction of the W.A.C. Bennett Dam on the Peace  
2 River.

3 Because the Utilities Commission review is  
4 narrowly focused on economic viability of Site C, I  
5 will speak to that, while also noting that our  
6 concerns and those of many indigenous and settler  
7 communities also include the social, cultural, and  
8 environmental impacts of Site C.

9 Overall, we feel that the Site C dam is not  
10 an economically sound project and will not contribute  
11 to long-term economic well-being in northern  
12 communities or the province as a whole. We feel it  
13 should therefore be cancelled and the site reclaimed.

14 With regards to the B.C. provincial energy  
15 demand, a report released in April, 2017 by a group of  
16 UBC researchers led by Dr. Karen Bakker identified  
17 that energy demand in B.C. became flat in 2005.  
18 Despite the fact that B.C.'s population increased by  
19 540,000 and its economy grew by 47 percent between  
20 2001 and 2017.

21 It further identified that BC Hydro has  
22 over-predicted energy demand in the past. For  
23 example, we have not reached the energy demand levels  
24 that BC Hydro first predicted when the dam was  
25 proposed in the 1990s. Based on the UBC analysis, it  
26 is predicted that energy generated by the dam will be

1           100 percent surplus to B.C. energy needs. BC Hydro's  
2           stated need for Site C is anchored in its forecast  
3           that B.C.'s demand for electricity will increase by 30  
4           to 40 percent over the next 20 years. This is based  
5           on its econometric model showing continued GDP and  
6           population growth, LNG projects coming on line,  
7           greater and greener electrification of the economy,  
8           and the advent of electric rather than oil-based  
9           transportation.

10           We are concerned about the accuracy of  
11           these projections, and lack of analysis on energy  
12           conservation, and the potential for alternate  
13           renewable resources, such as solar, wind, geothermal,  
14           et cetera, to meet increased demand, if it does not in  
15           fact transpire.

16           With regards to the projected budget for  
17           the dam, it is well known that dams typically overrun  
18           projected budgets. A study from Oxford University  
19           that considered 245 large hydroelectric projects in 65  
20           countries around the world found that on average the  
21           cost to build the dams were 90 percent higher than  
22           what was originally predicted.

23           BC Hydro originally estimated that Site C  
24           would cost approximately \$5.8 billion to construct.  
25           That prediction has now increased to \$9 billion. Some  
26           analysts predict that the cost of the dam would

1           escalate to upwards of \$12 billion. These costs would  
2           be borne by BC Hydro ratepayers. For this reason the  
3           Site C dam should be cancelled, as it is an unneeded  
4           expensive project that we will have to pay for  
5           collectively.

6           We are also very concerned about the  
7           implications of both the lack of energy demand and the  
8           expected cost overruns for BC Hydro ratepayers. Given  
9           that there is no demand for the electricity in B.C.,  
10          it will be exported at prices that are lower than what  
11          the energy cost to produce.

12          As identified by the former chair of the  
13          Site C joint review panel, Harry Swain, this could  
14          lead to \$7 billion of the predicted \$9 billion in  
15          construction costs never being returned. This \$7  
16          billion would be paid for by BC Hydro ratepayers. For  
17          this reason, Swain recommends that if the project  
18          costs more than \$2 billion to construct, it should be  
19          cancelled. Already, lower-income individuals  
20          experience energy poverty as a result of current  
21          energy prices. Increased hydro rates will only  
22          further marginalize lower-income households.

23          In conclusion, I want to again stress that  
24          Sea to Sand has serious concerns about the social and  
25          cultural impacts of this project, with its  
26          immeasurable impacts to the farming, recreation,

sustenance, tourism, and well-being embedded in the Peace River Valley, and with any government or government agency willing to approve development on indigenous territories without the free, prior, and informed consent of indigenous nations.

6                             Thank you for your time and consideration  
7                             of our submission on this very important matter.

8 Proceeding Time 7:04 p.m. T50

9 | THE CHAIRPERSON: Thank you.

**SUBMISSIONS BY MR. ALLEN (#0118):**

11 MR. ALLEN: Hi, my name is Eric Allen, Prince George.  
12 Citizen at large, I guess.

I want to touch on a number of things. The first thing I'd like to get out is the proposed LNG plants in British Columbia. There's about ten big ones, but specifically the two, one in Kitimat, one in Prince Rupert, Port Edward.

18 There's a sense out there that these LNG  
19 plants are going to use electricity from BC Hydro.  
20 That's not true. The contract between BC Hydro and  
21 the LNG plants is that they'll use BC Hydro power for  
22 their auxiliary needs. They'll actually use their own  
23 natural gas to run the turbines to generate the  
24 electricity to freeze the natural gas so they can ship  
25 it.

So we should keep that in mind, because

1           these LNG plants do a lot of polluting. Okay? Having  
2           said that, I think in order to resolve this situation  
3           we're going to have to accept some polluting. It  
4           can't be black or white. Eh?

5           Now, study cast doubts about environmental  
6           benefits of LNG export industry. That's basically  
7           what I just touched on. News release, LNG Canada, and  
8           it goes into detail about the agreements between BC  
9           Hydro and the LNG plants. That's just another one,  
10          the same way. BC LNG proposals and greenhouse gas  
11          emissions. There's huge emissions involved here. An  
12          estimate of 24 million tonnes of LNG per year,  
13          equivalent to the initial phases of Petronus and Shell  
14          proposals would produce 21 million tonnes of GHGs per  
15          year, equivalent to 44 percent of the province's total  
16          targeted emissions for 2020.

17          So, then we get to power demand is flat,  
18          not growing in B.C. Well, we know that. We never  
19          seem to be able to put our finger on why. Very simply  
20          put, it's because a large number of industries in  
21          British Columbia shut down since 2001, when Watson  
22          Island shut down the pulp mill, then Eurocan Pulp and  
23          Paper, then Abitibi Paper and Mackenzie. We have 70  
24          mills in British Columbia shut down, I don't know how  
25          many other pulp mills. That power is not -- that was  
26          being used, it's no longer being used. So it filters

1           over to people and houses, or whatever. And we have a  
2           net -- or at least we don't have a gain in the amount  
3           of power being used.

4           That's where the power is coming from, in  
5           my opinion. The lack of industry using it. So the  
6           solution, Alberta's got it. It's called the Shepherd  
7           Energy system in Alberta. They built an LNG plant,  
8           generates 800 megawatts of capacity. It's attached  
9           right to the city of Calgary, supplies over 50 percent  
10          of their needs. It gets its water from its waste  
11          water system. It was built in four years. It was  
12          built for something like \$1.5 billion. They have  
13          another one in the future planned for Edmonton. This  
14          is what we need here. We need to forget about Site C,  
15          we need to build a plant, a gas -- a natural gas plant  
16          that will take us the next 10 or 15 years into the  
17          future, and look after our needs, and during that time  
18          we can continue to find other means of electricity.

19           Now, with the natural gas, if we have to  
20          shut it down because we've got another way of getting  
21          electricity, yeah, we shut it down. That won't happen  
22          with Site C.

23           And just a few more little things here. I  
24          won't get into the population part of it. This is  
25          back in 2013. B.C. energy reduced -- they're not  
26          ruling out use of gas-fired power plants. They were

1 thinking about it back then. Hydroelectric power's  
2 dirty secret revealed. Now we're talking about  
3 greenhouse gas emissions from dams, very bad stuff.  
4 They're just getting into it. Hydroelectric dams  
5 increase methane emissions, says German study.

6 Inland waters account for nearly 18 percent  
7 of global methane emissions, okay? Methane emissions  
8 may swell from behind dams. So, it looks like dam  
9 power is not clean power. That's terminology we use  
10 to describe it, but we're getting more and more  
11 evidence indicating it's not clean at all. In fact,  
12 it may be a worse polluter than coal or natural gas.

13 So we have a dilemma there, and I think the  
14 solution, very simply, is for the people,  
15 environmentalists, bite the bullet on their little bit  
16 of gas -- you know, like electric car doesn't care if  
17 it comes from Site C or if it comes from a natural gas  
18 plant. It just plugs in and away it goes.

19 I think we ought to re-think the situation.  
20 Thank you very much.

21 THE CHAIRPERSON: Thank you, sir.

22 **Proceeding Time 7:09 p.m. T51**

23 **SUBMISSIONS BY MR. GREGG (#0119):**

24 MR. GREGG: I'd like to thank the B.C. Utility Commission  
25 for undertaking this review of Site C, for being my  
26 audience here today, and for asking BC Hydro to be

1           more forthcoming with information regarding this  
2           project.

3 THE CHAIRPERSON: Excuse me, sir. Could you please state  
4           your first name and spell your last name?

5 MR. GREGG: Absolutely.

6 THE CHAIRPERSON: Thank you.

7 MR. GREGG: My first name is Ian. My last name is Gregg,  
8           G-R-E-G-G.

9 THE CHAIRPERSON: Thank you.

10 MR. GREGG: I'm here as a ratepayer, as well as a  
11           taxpayer. And I'd like to imagine a future where we  
12           do not rely on dams or fossil fuels for our energy at  
13           all.

14           But yes, we are a long way from this.

15           However, given the staggering costs of this project,  
16           BC Hydro's current deferred debt of about \$6 billion,  
17           Site C's limited ability to produce peak-period  
18           energy, and the archaic method of electrical  
19           generation of a dam of this size presents, I am not  
20           convinced that benefits of this project outweigh the  
21           costs.

22           I encourage the BCUC to devote significant  
23           effort to finding alternative portfolios. I am so  
24           embittered at the prospect of losing a significant  
25           amount of arable and agricultural land to a project  
26           that my children and our children are going to be

1           expected to pay off. I have more respect for future  
2           generations than that, and I invite you to think of  
3           them as well as we move forward.

4           With the advent of climate change, we can  
5           expect improved growing conditions to shift northward  
6           as historic centres of agriculture, i.e., California,  
7           dry up and become unusable and unproductive. As we  
8           look at this project, do not underestimate the Peace  
9           Valley's potential for agricultural, food sovereignty,  
10          and economic prosperity. The previous Liberal  
11          government convinced many of us that mega-projects and  
12          fossil fuels were the only way to get people working  
13          and to build a future in British Columbia. Let's look  
14          at the alternatives, please.

15          I'm beginning to think I know what the  
16          1950s were like. Let's not repeat the same mistakes.  
17          At the very least, be aware that B.C. exports a lot of  
18          electricity to the USA. How much? An amount that  
19          would equal about 90 percent of what Site C is  
20          expected to produce. If we truly are interested in  
21          producing more instead of re-directing this power, I  
22          am happy to provide alternatives. Give us a chance to  
23          propose them, please.

24          On the aspect of creating jobs for British  
25          Columbians, I would like to be informed on just how  
26          many jobs are going to British Columbians, Canadians,

1 and foreign workers respectively, and at what cost? I  
2 would like to know how many fracking and LNG projects  
3 would no longer be able to go through, due to  
4 decreased riverbank stability. And how many of B.C.'s  
5 jobs are associated with that.

As well, I'd like to know what industrial possibilities are created due to the construction of this dam, and how the natural gas and mining industries stand to benefit from the construction of this dam. I have yet to see a good reason for the construction of this dam, and I am led to presume that someone stands to benefit. And I'd like to know who. It's not the river, it's not the fish, it's not the forest. And it's certainly not me. And to the human beings who depend on the Peace River for their livelihood and survival, and those upstream who came before them, the Site C dam is just utterly disrespectful.

19 | Thank you.

20 THE CHAIRPERSON: Thank you, sir.

**Proceeding Time 7:14 p.m. T52**

**SUBMISSIONS BY MS. MUTUAL (#0120):**

23 MS. MUTUAL: My name's Alycia, and I'm just here as a  
24 taxpaying citizen and as a ratepayer. My last name is  
25 Mutual, spelled M-U-T-U-A-L, just like mutual funds.

I just have a couple of short things to

1 say. To start, I just don't see why we're flooding  
2 more arable land in the North when we know that our  
3 climate is changing. Food security, which is already  
4 an issue in the north, will become even more of a  
5 challenge in the future, and I think we will regret  
6 losing so much arable land, especially if we consider  
7 the recent droughts in California. Good farmable land  
8 is moving north.

9 Secondly, I don't really buy the argument  
10 that building a new large mega-project is a well-  
11 thought-out plan. New sources of electricity should  
12 be localized as much as possible, in preparation for  
13 moving Canadian society away from a grid-like power  
14 structure. Building new mega-projects is the opposite  
15 of innovative. It is archaic, and B.C. will get left  
16 behind if it does not start thinking differently about  
17 the future.

18 As a millennial, it seems obvious to me  
19 that the world is going to be a very different place  
20 in the next 20 or 30 years. And if I'm willing to  
21 think ahead and prepare for this, I sure hope that BC  
22 Hydro and the provincial government are too.

23 Thank you.

24 THE CHAIRPERSON: Thank you.

25 **Proceeding Time 7:15 p.m. T53**

26 THE CHAIRPERSON: Is Rosemary Stephen here? Rosemary

1           Stephen? No. Agnes -- I'm sorry about this --  
2           Powlowska. Sorry, Powlowska-Mainville, my apologies.

3           **SUBMISSIONS BY MS. POWLOWSKA-MAINVILLE (#0121):**

4           MS. POWLOWSKA-MAINVILLE: Good evening, dear  
5           Commissioners. Thank you so much for reviewing the  
6           Site C project. It has been a long time coming.

7           I come to you as an individual, first and  
8           foremost, as someone who has examined hydro  
9           development for over a decade, both here and abroad,  
10           and in Manitoba. I worked for Hydro myself. I have  
11           worked for a First Nations negotiating team, so I know  
12           how incessant the company works -- how incessant the  
13           company is. And I worked as an executive lead in the  
14           Manitoba Clean Environment Commission.

15           I'm also an assistant professor at UNBC.  
16           However, I come here today as an executive director of  
17           the Northern B.C. Public Interest Research Group. We  
18           are a group of scholars, academics, grass-roots  
19           people, organizations, First Nations, and communities  
20           across Canada who are working together for a better  
21           north, and better and more responsible development. We  
22           also presented a submission on your website, so I will  
23           try not to overlap.

24           To begin with, with great respect to BC  
25           Hydro and any supporters, it is the position of the  
26           Northern B.C. Public Interest Research Group that Site

1           C should not be built. NBCPIRC is not against  
2           development, but it is against irresponsible and  
3           unnecessary development. Site C is expensive,  
4           incomplete, and heavily flawed, as you can see in the  
5           EA documentation, environmental assessment. It is  
6           destructive to the environment, to local livelihoods,  
7           to cultural heritage. It is unwanted and unnecessary  
8           as you can see by the applause. And of course it has  
9           alternatives.

10           Site C explicitly affects local residents  
11           and indigenous communities, causing local harm that is  
12           not compensated, disrupting traditional livelihoods,  
13           limiting local participation in decision-making,  
14           failing to foster dynamic capacity-building, and limit  
15           economic arrangements in the project. Some of them I  
16           will address.

17           Yes, economic growth is often seen as a  
18           means to development. But in the case of Site C,  
19           economic growth is presented as an end in itself. By  
20           increasing consumption levels, creating short-term  
21           jobs only, and has the appearance of an economic  
22           development in the north. But it is going to cost us  
23           currently \$8.3 billion. However, having worked for  
24           Hydro, I know that this is only the cost of the dam.  
25           It does not include transmission lines, converter  
26           stations, ground stations, access roads, logging,

1                   parking, power station, ground electro site,  
2                   excavation site, rock quarries, deposit sites, burrow  
3                   deposits, construction camp sites, corridors,  
4                   campouts, start-up campsites, quarries, stock piles,  
5                   equipment holding sites, pipelines, lagoons, transfer  
6                   station, gathering stations, et cetera, et cetera.

7                   Since the numerous scholarly documentation  
8                   can show us a variety of ways in which indigenous and  
9                   non-indigenous communities have been negatively  
10                  affected by the dam, and other dams across Canada and  
11                  abroad. Negative impacts in the social, economic, and  
12                  environmental realms are documented. I do not need to  
13                  state them here. It is noted, however, that negative  
14                  consequences tend to persist for generations. These  
15                  costs -- these are costs accrued to the dam that are  
16                  not foreseen. Alcoholism, trauma, suicide, loss, loss  
17                  of traditional livelihoods, hopelessness, problems,  
18                  floating human remains, all added to the cost of Site  
19                  C that is not in the environmental assessment.

20                  We ask you therefore that you consider  
21                  canceling the project and I will provide you with some  
22                  reasons. Taken directly through the environmental  
23                  assessment which we have reviewed, actually, for the  
24                  purpose of this presentation, Site C should be  
25                  cancelled because, first of all, it will disrupt land-  
26                  based livelihood and farmers, local growers, and

1 indigenous harvesters. We are flooding an economy  
2 that we have no idea how much it's contributing to  
3 B.C. The adverse effects agreements associated with  
4 Site C problems do not include clear explanations as  
5 to replacement of some of these livelihoods. What is  
6 the compensation? For example, volume 5 states that  
7 work, for example, with aboriginal groups to identify  
8 potential sites for relocation of medicinal and food  
9 plants to compensate for areas that will be inundated.  
10 That is a very interesting, if untested, idea to  
11 relocate plants.

12 Can BC Hydro provide evidence if that this  
13 type of system has worked elsewhere? Please, I'd like  
14 to see that.

15 The second reason being, Site C will not  
16 provide employment opportunities as predicted. Given  
17 the scarcity of economic opportunities in the north,  
18 hydroelectric development can be seen by some as a  
19 rare economic opportunity that these communities  
20 should take advantage of. However, most employment  
21 resulting from the Site C project will be short-term,  
22 employment generation will be associated largely with  
23 labour-intensive construction phase. This boom and  
24 bust nature of employment is known to be damaging for  
25 individuals and communities, because after  
26 construction ends, all these skilled workers that they

1           trained have nothing to do, and they are going to  
2           leave. This is called severe social integration.

3           Number three, Site C environmental  
4           assessment is severely flawed, and it should be  
5           revisited. For example, in June, 2017, just this  
6           year, the federal government is launching a government  
7           discussion paper on the changes that are needed for  
8           the EIA, because it's been so severely flawed. This  
9           process is currently undergoing. Given today's  
10          context regarding aboriginal rights, post *Tsilhqot'in*,  
11          policies and current legal environments post-  
12          reconciliation, you will see that if this was re-  
13          written it would be a completely different document  
14          and a completely different process.

15          THE CHAIRPERSON: Ms. Mainville, I just want to remind  
16          you that the time -- the clock's reset itself now to  
17          five. So, if we could get to a wrap-up, that would be  
18          good, thanks.

19          MS. POWLOWSKA-MAINVILLE: Oh. Yes.

20           The Site C does not have any monitoring and  
21           mitigation plans set up, and that costs us for money  
22           that we do not know.

23           Fourthly, the Site C does not discuss any  
24           intangible cultural heritage of the potential and  
25           aboriginal right. The heritage report has no mention  
26           of intangible cultural heritage and yes, treaty rights

1           are site-specific. But aboriginal rights are also  
2           extending to cultures, practices, and customs that  
3           have not been explored. Specifically to water.  
4           Aboriginal rights are also on water, not just on land.

5           Finally, this is where I will conclude,  
6           Site C is not based on best practices and continues a  
7           disrespectful relationship with First Nations. For  
8           example, the impacts benefits agreement in volume 5,  
9           section 34, BC Hydro will offer to enter into initial  
10          discussions toward an IBA. The offer lump-sum cash  
11          payments, cash equivalents, special purpose funds, and  
12          others. Why not revenue-sharing? Because of heritage  
13          assets? Why? Is the heritage a river? It's not.  
14          Why not? Maybe we should make it. How about rentals  
15          on the river? Subsidized hydro. Provide free  
16          electricity for First Nations and the local  
17          communities. Do we even -- resource revenue sharing.  
18          Devote a percentage of time for engineering and  
19          construction companies to build up community  
20          infrastructure, such as roads, communities, housing,  
21          public facilities, water, and sewage. Have an annual  
22          income assistance program for fishers and trappers.  
23          Funding for land-based local language. Basically have  
24          best practices. Even the Keeyask project in Manitoba  
25          offers community a partnership percentage, which is  
26          not the case here.

1                   I basically just wanted to finish by giving  
2                   just a few recommendations, really short, I promise.  
3                   First of all, have a complete cumulative regional  
4                   social, environmental and economic assessment done  
5                   prior to any flooding, if it must be done.

6                   Number two, as Michelle Connelly has  
7                   stated, a thorough study examining the economic  
8                   benefits of the region as is. If we're going to flood  
9                   it, we might as well know how much we're flooding.

10                  Number three, if this dam is going to  
11                  build, we recommend to establish an independent and  
12                  multi-stakeholder committee that should be established  
13                  to conduct relevant environmental and socioeconomic  
14                  research that is at arm's length from Hydro. This is  
15                  needed before any documentation is signed and the  
16                  project goes through.

17                  Finally, develop convincing mitigation and  
18                  remediation plans to minimize disruption. They should  
19                  be written, finalized and set up, not possibly will be  
20                  negotiated as is currently stated in the EA.

21                  And finally, in an area of post-*Tsilhqot'in*  
22                  and reconciliation, First Nations and indigenous  
23                  communities must understand that they truly should  
24                  have a veto over the Site C project. Essentially the  
25                  damage that Hydro will do as past experience has  
26                  clearly shown will far outweigh the deeper benefits if

any that it may provide to the north. Perhaps these  
are lessons to be learned today so that our children  
can thank us tomorrow. Terminating this project is  
the right thing to do.

5 | Thank you.

6 THE CHAIRPERSON: Thank you.

**Proceeding Time 7:24 p.m. T54**

8                   We are at the end of our speaker list. But  
9                   we've got a little bit of time that we -- if there is  
10                  anyone else that wished to speak. Sir?

## **SUBMISSIONS BY MR. LEE (#0122):**

12 MR. LEE: Thank you. My name is Norm Lee, last name Lee,  
13 L-E-E. I'd just like to address the issue of whether  
14 the dam is needed or not. I know in the news almost  
15 every day now we hear more and more about electric  
16 vehicles. Volvo and other companies making more and  
17 more electric vehicles. And countries setting goals  
18 and standards.

Well, in B.C., if we were to achieve 35 percent of our cars electric vehicles, that would consume the entire power produced by Site C. And if we were 100 percent electric vehicles in B.C., then we'd need 2.8 Site C dam equivalents.

24                    My second point, we often hear we should  
25        use wind or solar and sure, that's a good idea. But I  
26        didn't do the calculation myself, but I have read that

1           to produce an equivalent amount of power, you need  
2           more land than Site C uses, for both wind and solar  
3           equivalent.

4                         Thank you very much.

5 THE CHAIRPERSON:    Thank you, sir.  Ma'am?

6 **SUBMISSIONS BY MS. HAVENS (#0123):**

7 MS. HAVENS:    My name is Doramy Havens, D-O-R-A-M-Y, H-A-  
8                   V-E-N-S.

9                         While perhaps currently outside your direct  
10          mandate, I would request that this panel also consider  
11          and analyze the ecological impact of the whole back of  
12          water to fill the reservoir proposed behind the Site C  
13          dam, on the major delta at the confluence of where the  
14          Peace River flows into Lake Athabasca.  This was one  
15          of the major deltas of the world.

16                         It affects Lake Athabasca and the Slave  
17          River.  This area was heavily impacted by the creation  
18          of the Bennett Dam.  And the people and the ecology  
19          downstream were heavily impacted.  And a further  
20          holdback of water will virtually destroy this huge  
21          delta.

22                         Thank you.

23 THE CHAIRPERSON:    Thank you, ma'am.

24                         Okay.  Anyone else?  Well, I'd like to  
25          thank everyone very much for coming out tonight, and  
26          thank you for your thoughts and presentations.

1       They're very helpful to all of us on the panel. We  
2       especially appreciate you coming out on a Friday  
3       evening, on a rainy Friday evening. And we -- again,  
4       we really appreciate it. So I hope you all have a  
5       great evening and a really good weekend.

6                   Thanks for coming.

7                   **(PROCEEDINGS ADJOURNED AT 7:30 P.M.)**

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I HEREBY CERTIFY THAT THE FORGOING  
is a true and accurate transcript  
of the proceedings herein, to the  
best of my skill and ability.

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A.B. Lanigan

A.B. Lanigan, Court Reporter

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September 30<sup>th</sup>, 2017

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