

CLEAN ENVIRONMENT COMMISSION

LOUISIANA PACIFIC STRANDBOARD PLANT

AIR EMISSIONS REVIEW

Volume 1

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Held at the Westwood Inn

Swan River, Manitoba

Tuesday, July 28, 2009

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APPEARANCES

Clean Environment Commission

Mr. Edwin Yee Chairman

Mr. Ken Wait Member

Mr. Ken Gibbons Member

Ms. Patricia MacKay Member

Mr. M. Green Counsel to Commission

Mr. Doug Smith Report writer

Ms. Cathy Johnson Commission Secretary

Ms. Joyce Mueller Assistant

Reporter:

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Official Examiner, Q.B.

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1 TUESDAY, JULY 28, 2009

2 UPON COMMENCING AT 9:00 A.M.

3 THE CHAIRMAN: Good morning ladies and
4 gentlemen. I would like to welcome you to this
5 Clean Environment Commission public meeting. I
6 would like to call this meeting to order. I have
7 a few opening comments to make and then we will
8 proceed.

9 Just by way of introduction, my name
10 is Edwin Yee. I'm a member of the Manitoba Clean
11 Environment Commission, as well as chair of this
12 panel on the potential health and environmental
13 effects of air emissions at proposed new levels
14 from the Swan Valley Oriented Strandboard Plant.

15 With me on the panel are to my
16 immediate left, Patricia MacKay, and at my far
17 left, Ken Wait, and on my right Mr. Ken Gibbons.

18 The Clean Environment Commission has
19 been requested by the Minister of Conservation to
20 conduct an investigation into the potential health
21 and environmental effects of air emissions at
22 proposed new levels from the Swan Valley Oriented
23 Strandboard Plant and provide advice and
24 recommendations.

25 The terms of reference from the

1 Minister direct the Commission to provide members
2 of the public an opportunity for input regarding
3 Louisiana Pacific's proposal at a public meeting
4 in the affected community.

5 The meeting scheduled for the next two
6 days are intended to gain advice and feedback from
7 Manitobans, and in particular from the community
8 and affected stakeholders. We will not be meeting
9 on Thursday as there is sufficient time for
10 presenters both today and tomorrow.

11 The public meetings are open to any
12 groups or individuals to make a presentation to
13 this panel on issues related to the potential
14 health and environmental effects of air emissions
15 at proposed new levels from the Swan Valley
16 Oriented Strandboard Plant.

17 For the most part, presentations are
18 limited to 15 minutes. Exceptions will be made in
19 some cases where a presenter needs more time, but
20 this must be arranged with us prior to the
21 presentation. Presenters will also be required to
22 take an oath promising to tell the truth.
23 Presentations should be relevant to the mandate
24 given to the Commission by the Minister relating
25 to air emissions from the plant and related health

1 and environmental issues. Presentations and
2 comments relating to forestry management plans or
3 other such matters are outside the mandate of this
4 review. If a presentation is clearly not
5 relevant, I may rule it out of order.

6 Members of the panel may ask questions
7 of any presenters during or after the
8 presentation. There will be no opportunity for
9 other presenters to question or cross-examine
10 presenters.

11 These public meetings are only one
12 component of this investigation. In addition to
13 the public meetings, the Clean Environment
14 Commission has engaged a consultant to assist us
15 in the investigation. The results of the
16 consultant's work have been posted on our website.
17 Anyone is invited, groups or individuals, to
18 provide comments on the consultant's report if
19 they wish so. Written submissions will also be
20 accepted. Information as to how submit written
21 suggestions or to provide relevant information is
22 available on our website. The deadline for
23 receipt of written submissions is September 1st.

24 At the end of our investigation we
25 will consider all of the information and

1 submissions, and provide advice and
2 recommendations in a report to the Minister on the
3 potential health and environmental effects of air
4 emissions at proposed new levels from the Swan
5 Valley Oriented Strandboard Plant.

6 Now some administrative matters. If
7 you wish to make a presentation today and haven't
8 already indicated to the staff, please register at
9 the table that's located at the entrance to this
10 room.

11 As is our normal practice, we are
12 recording these sessions, and we ask all
13 presenters to use the microphone at all times, as
14 well as to speak clearly. Verbatim transcripts
15 will be available on line shortly following the
16 meetings. You can find the link from our website.

17 And finally, in respect to cell
18 phones, I would ask that they be turned off, or at
19 least that the ring tone be turned off. And if
20 you must take a call, I would ask that you please
21 leave the room.

22 And finally I would ask Cathy Johnson
23 to read the instructions for this meeting.

24 MS. JOHNSON: This is by way of letter
25 from the Minister of Conservation to the chair of

1 the Clean Environment Commission, dated March 26,
2 2009.

3 "Dear Mr. Sargeant, I announced on
4 March 16th that I would be asking the
5 Clean Environment Commission to review
6 Louisiana Pacific's request for
7 permanent alterations to its Swan
8 Valley Oriented Strandboard Plant's
9 Environmental Act Licence. As you are
10 aware, the CEC initially reviewed this
11 plan when it was first proposed in
12 1994. Included in the original CEC
13 report was a recommendation that the
14 company operate pollution control
15 equipment, including RTOs. Louisiana
16 Pacific's recent application states
17 that the applicants have reduced
18 emission levels since the plant was
19 first constructed. Therefore,
20 pursuant to section 6(5) of the
21 Environment Act, I'm asking that the
22 CEC conduct an investigation and
23 provide advice and recommendations to
24 me regarding Louisiana Pacific's
25 request.

1 I have provided the terms of reference
2 which will help guide your exercise.
3 LP's current licence has a requirement
4 for the Director of Environmental
5 Assessment and Licensing to review the
6 terms and conditions of the licence
7 prior to June 1, 2009. So completion
8 of the CEC process in advance of this
9 date would be welcome.

10 Thank you for undertaking this
11 important task."

12 THE CHAIRMAN: Thank you, Cathy. With
13 that we will begin our public meetings, and the
14 first presenters will be Louisiana Pacific. I
15 would ask the presenters to come forward to the
16 presentation table, and as I've indicated, please
17 speak into the microphone as clearly as possible,
18 and introduce yourselves.

19 MS. JOHNSON: Plus be sworn in.
20 Please state your names for the record?

21 MR. BETCHER: Kevin Betcher, plant
22 manager.

23 MR. HAMBLEY: Al Hambley,
24 environmental health and safety manager.

25 MR. WARKENTIN: Kevin Warkentin

1 regional environmental manager.

2 (Kevin Betcher, sworn)

3 (Al Hambley, sworn)

4 (Kevin Warkentin, sworn)

5 THE CHAIRMAN: Please proceed,
6 gentlemen.

7 MR. BETCHER: Good morning,
8 Mr. Chairman, commissioners, members of the panel,
9 ladies and gentlemen of the audience. I would
10 like to thank you for the opportunity to present
11 our application to amend emission limits of the
12 Swan Valley OSB plant.

13 Today we will show, using fact and
14 science, that even with removal of the RTOs, we
15 will still ensure protection of human health and
16 the community. We will also demonstrate that our
17 application will result in greenhouse gas
18 reductions by about 12,000 tonnes.

19 The other part we will be covering
20 today is the fact that this is also an economic
21 focus from the sense that it makes environmental
22 sense, it also makes good business sense to make
23 these changes.

24 This application was subjected to
25 numerous levels of expert review, including

1 Manitoba Conservation's environmental engineer,
2 third party consultants, a technical advisory
3 committee within the Manitoba Government which
4 included Manitoba Health, with no significant
5 concerns raised.

6 We will also show that we followed a
7 process in submitting our application for emission
8 amendments, and approval of our application will
9 contribute to the sustainability of our facility
10 within the valley as well as the community.

11 Just a brief overview of our summary
12 presentation today. We will be doing company
13 information, RTO background and history, review of
14 the application, ambient air quality,
15 environmental benefits, and a socio-economic
16 review.

17 Who are we? LP, founded in 1973, 26
18 OSB mills, 14 of these -- sorry, 26 mills, 14 of
19 these are OSB mills. We have six mills in Canada,
20 four of these are OSB, four joint ventures, 4600
21 employees and 1400 employees in Canada. So
22 essentially one-third of our employees and
23 one-third of our mills are located in Canada. So
24 we definitely have a presence in Canada.

25 This is a pie chart indicating our

1 market share, LP at 24 per cent. We are the
2 largest producer of OSB in the industry. I would
3 like to point out that we have competitors in
4 Canada such as Tolko, Ainsworth, Grant Forest
5 Products and Weyerhaeuser. They have mills in the
6 U.S.A. and Canada, but in the Canadian operations
7 they do not operate RTOs -- and Norbord, sorry.

8 Just a look at our corporate vision
9 and values, and these apply to every facility in
10 LP. To be a respected, profitable and growing
11 manufacturer of building products, to be a
12 supplier of choice because of our quality products
13 and reliable services, and to be an employer of
14 choice offering a safe, fun, ethical, challenging
15 and rewarding place to work. We will obey all
16 legal requirements, communicate honestly and
17 truthfully, act with integrity, be fair and
18 respectful in our workplace. And probably the
19 most important bullet, especially during today, is
20 safety, environment and quality are core values at
21 Louisiana Pacific.

22 We feel that over the past 13 years of
23 operation at this facility, we have proven
24 ourselves. We have established a good rapport
25 with the regulators and the community and the

1 people we do business with on a daily basis.

2 In regards to stewardship, a sincere
3 respect and care for our shared environment is at
4 the core of everything we do. Natural resources
5 are critical to our organization. They not only
6 allows us to manufacture the premium building
7 products that we're known for, they help us
8 sustain livable communities and high quality of
9 life. And I guess for me personally, this is a
10 pretty important statement being born and raised
11 in the valley, I want to ensure that our future
12 generations enjoy the same things that we do now,
13 outdoors, hunting, fishing. And our employees,
14 the vast majority are also born and raised in the
15 valley and we are local, we live here too.

16 Stewardship: Good environmental
17 stewardship is vital to strength, profitability,
18 and sustainability of our company and the
19 communities where we operate. In order to keep
20 this valley prosperous and provide opportunity for
21 our residents, we need to ensure that the plant is
22 competitive and sustainable without sacrificing
23 environmental core values.

24 As I said previously, we are local.
25 We are living in the valley, raising our families

1 in the valley, breathing the air that everybody
2 else is breathing.

3 I would like to say at this time, this
4 initiative is not driven by corporate LP, this
5 initiative is driven by Swan Valley OSB. We
6 started down this road back in 2001, when we
7 realized there is a better way to operate our
8 facility. There is environmental benefits with
9 greenhouse gas reductions. And we knew back in
10 '01 that there is a better way to do it and it was
11 the right thing to do.

12 We would also like to acknowledge
13 community concerns, but the fact of the matter is,
14 if we are going to have any adverse effect on the
15 health of the community or the environment, we
16 would not have proceeded with this. It is plain
17 and simple as that.

18 Approval of our application will still
19 ensure community health and the environment. And
20 I think you are going to hear that a few times
21 this morning because it is a pretty important
22 theme for our presentation.

23 I have given a little bit of the
24 corporate overview at the start. I just want to
25 touch on our facility here in Swan. We have been

1 operating in the valley for over 13 years. Many
2 of our employees were there from the first shovel
3 turned at that facility, and I'm looking at a few
4 of them in the audience today where they have
5 helped build the mill, so there is a lot of pride
6 in our establishment.

7 We produced our first board in
8 January 21st, 1996. We employ at normal operating
9 level 175 employees, and that includes our FRD
10 operations. We provide employment and opportunity
11 for valley residents. Most of the people at the
12 facility either lived here or moved back to the
13 valley for the opportunity. I'm one of those
14 people actually.

15 We contribute over \$35 million a year
16 annually to the local economy. We are an active
17 supporter of local community initiatives.

18 Examples of these are the proposed wellness
19 centre, the junior hockey team, golf course
20 expansion. We provided artificial ice for the
21 Minitonas arena back in '95, I believe. We work
22 with various service clubs such as the Lions, as
23 an example. School groups, we are active in
24 supporting an Enviro-thon, which is part of the
25 regional secondary school program. Ducks

1 Unlimited, Sport Fish Enhancement are also
2 organizations that we work with. We also provide
3 summer student employment to university kids, well
4 paying, four months of work for people who are
5 going to university. So LP does bring a lot of
6 value to the community. We also recently donated
7 or provided some of our land at the site for Field
8 of Jubilee, which is a donation of grain to
9 charitable organizations. So we do bring a lot
10 more than just jobs.

11 At this point I would like to turn the
12 presentation over to Mr. Al Hambley, who is our
13 site environmental health and safety manager, who
14 will be doing the bulk of the presentation.

15 MR. HAMBLEY: Can you hear me? Good
16 morning everyone. My job here is to discuss the
17 science behind our proposal. I will talk about
18 our dispersion modeling and health risk assessment
19 that really forms the basis of our application and
20 demonstrates very clearly that we will not be
21 having an adverse effect on community health and
22 environment.

23 I think right off the start I have to
24 define some of the terminology that you are going
25 to hear throughout the presentation. Volatile

1 organic compounds, or VOCs, you have seen this
2 around and discussed at length. It is the
3 collective name given to compounds that are gases
4 at room temperature which contain carbon as a
5 primary element. And I will say that they are a
6 natural component of the wood drying process.
7 Formaldehyde and benzene are two substances that
8 are species of VOCs.

9 Also greenhouse gases, I mean, we've
10 heard a lot of this term in the literature over
11 the last several years. They are gases that
12 absorb heat radiated from the earth. The man-made
13 greenhouse gases are carbon dioxide, nitrous oxide
14 and methane. In Canada the total national
15 greenhouse gas emissions are predominantly
16 associated with production or combustion of fossil
17 fuels.

18 Next slide. Nitrogen oxide, you can
19 see it is a little bit lower on the screen. They
20 contribute to ozone, smog, acid rain and fine
21 particulate. They occur naturally in the
22 environment but they are also generated by the
23 combustion of the fossil fuels. And we will show
24 that we are actually reducing nitrogen oxides with
25 our proposed amendments.

1 Continuing on, ambient air, you will
2 hear me mention that term, that's just the air
3 outside. Ambient air quality criteria or AAQC,
4 you are going to see this term throughout the
5 presentation. Many provinces, including Manitoba,
6 have established Manitoba ambient air quality
7 criteria. And this is an important term. They
8 are set at the level where no adverse effect is
9 observed in people or the environment. And the
10 ambient air quality criteria is tied back to our
11 health risk assessment and our dispersion
12 modeling. You are going to see that throughout
13 the presentation, so please -- and I will remind
14 that you that, again, they are set at the level
15 where no adverse effect is observed on people or
16 the environment.

17 Next point, air quality dispersion
18 modeling, again, one of the basis of our
19 presentation and proposal. They are computer
20 generated mathematical models used to predict the
21 ground level concentrations. I will mention here
22 that there are many different models available and
23 they are generally considered conservative or that
24 they err on the side of caution, or to put it
25 another way, they generally overestimate ground

1 level concentrations.

2 And resins, the terms phenol
3 formaldehyde and MDI, they are two resins we use
4 in our process, and you will see those terms
5 throughout the presentation as well, so just
6 recall that they are resins used in our process.

7 To get to the heart of the matter, I
8 think we have to describe exactly what a RTO is.
9 They are essentially large incinerators. They
10 incinerate the dryer gas as it enters the unit.
11 It goes up through the unit into the combustion
12 chamber. The combustion chamber is about
13 1400 degrees Fahrenheit and incinerates the gases
14 coming in. The gases are primarily water vapour
15 but they do contain VOCs. I should mention that
16 they are not -- while they are very effective in
17 what they do, they are not 100 per cent efficient,
18 there are VOCs that are emitted.

19 In addition, because of the combustion
20 of natural gas, there is also a tremendous amount
21 of carbon dioxide, as Kevin mentioned 12,000
22 tonnes annually are emitted, plus nitrogen oxide,
23 which are products of combustion.

24 Ahead of the RTOs, and we will see
25 this in a second here, we also have additional

1 pollution control equipment on our drives in the
2 form of electrostatic precipitators. I wouldn't
3 want to leave anybody here with the impression
4 that we are simply getting rid of our pollution
5 control equipment. That's not the case. We will
6 still have the highest level of pollution control
7 equipment in our industry in Canada.

8 Just to give you an idea of how much
9 energy these units use, and it is strictly -- all
10 we use our natural gas for is to operate these
11 units. The amount of energy used is nearly two
12 times the usage of all households in Swan River
13 combined, so a tremendous amount of energy used to
14 combust dryer gases.

15 This is a just a very rudimentary
16 process flow diagram that shows the items in green
17 are all of the pollution control equipment that
18 will exist, even after the RTOs are removed. And
19 the lighter blue-green slide shows our new
20 equipment that I'm going to discuss in a little
21 bit with the new dryer energy system.

22 And then just to get into a discussion
23 now of why we have RTOs, and I can't remember if I
24 actually said what RTO means, it stands for
25 regenerator thermal oxidizer, which is why I'm

1 going to use RTO.

2 In 1994, the original environmental
3 impact assessment that was done on our mill
4 determined that all applicable air quality
5 criteria are met without RTOs. However, during
6 the Clean Environment Commission hearings at the
7 time, LP were caused to install RTOs due to
8 concerns regarding uncertainty of new industry in
9 the valley. There was quite a bit of uncertainty,
10 as I understand, I wasn't here, but uncertainty
11 around a new industry coming to the valley. And
12 LP was in some difficulty at the time in the U.S.
13 at the time, so their reputation wasn't the best,
14 so I think the concerns were warranted.

15 I also believe that at the time the
16 Canadian mills built after Swan were going to have
17 to have RTOs, or any existing mills were going to
18 be retro-fitted with RTOs. If LP had RTOs, I
19 think the thought was it was just going to be sort
20 of standard issue and the rest of the industry in
21 Canada was going to come around. In fact, it
22 hasn't been the case. After 13 years, we are
23 still the only wood products facility in Canada
24 with RTOs. So there is no other RTOs in Canada.

25 I think it is an important distinction

1 here, wood products facility, there is over 1,000
2 wood products facilities in Canada, all with
3 drying processes, all emitting VOCs. We are still
4 the only facility, OSB or other, that has RTOs.
5 There is 25 OSB mills in Canada, 8 OSB constructed
6 after Swan, the majority of them are larger. We
7 can only assume then that these facilities are
8 being operated in compliance with their ambient
9 air quality standards without RTOs.

10 This map just shows where the RTOs are
11 situated, or sorry, not where the RTOs are, where
12 the OSB mills are situated across the country.
13 Again, we are the only facility in Canada with
14 RTOs. This is Swan down here in the centre of
15 your screen. Interesting to note that just across
16 the border, an hour and a half down the road, is a
17 larger competitor mill that does not have RTOs.

18 In fact, no Canadian jurisdiction is
19 advocating RTO technology because of the negative
20 environmental impact, namely the greenhouse gas
21 emissions and NOx emissions. And it is unlikely
22 there will ever be RTOs in Canada. In fact, I
23 think from what this is saying here is that RTOs
24 seem to be contradictory to what the provinces and
25 Canada is trying to do in terms of reducing

1 greenhouse gases.

2 And I guess the last thing to stress
3 is they are not required to meet ambient air
4 quality criteria. And again, you will recall that
5 ambient air quality criteria are set at the level
6 of no adverse effect to people or the environment.

7 MR. WARKENTIN: I think it is
8 important to add that, again, on the eight
9 facilities that have been built since Swan, or any
10 new facility that will be proposed today in
11 Manitoba or any other jurisdiction would not
12 include RTOs, just because of the environmental
13 impact you see from them.

14 THE CHAIRMAN: Excuse me, can I just
15 interject one quick question here for
16 clarification, so I don't forget? You mention
17 there is 1,000 facilities in the wood products
18 industry that also emit VOCs. What sort of
19 sources are these, in terms of are they all --
20 they are not all RTOs, they don't have RTOs, but
21 are they dryer processes?

22 MR. WARKENTIN: Yeah, we would be
23 talking panel plants, lumber kilns, any process
24 where you are heating up wood there is going to be
25 VOCs.

1 THE CHAIRMAN: So there would be a
2 wide range of variability between these various
3 facilities as to how much VOCs?

4 MR. WARKENTIN: Yeah. So we just
5 pulled out the OSB mills in particular, but there
6 are a number of panel plants across Canada too.

7 THE CHAIRMAN: Thank you.

8 MR. HAMBLEY: And as I said in an
9 earlier slide, we will still have the highest
10 level of emission control in Canada without RTOs,
11 and that will include wet electrostatic
12 precipitators and high efficiency cycles of the
13 dryer energy system. There are other forms of
14 particulate removal, but WESPs or wet
15 electrostatic precipitators are the most
16 efficient. There is also dry electrostatic
17 precipitators and multiclone on the bark fired
18 thermal oil heater, and we have five baghouses at
19 various stages of the flake handling process.

20 Next slide. Just to summarize this
21 last section, that is sort of the introduction to
22 what we are going to talk about. Again, we are
23 the only wood products facility in Canada with
24 RTOs, and even without RTOs, we will still have
25 the highest level of emission control equipment in

1 Canada.

2 At this point I'm going to talk about
3 some of the advances in the process technology
4 that have allowed the removal or shut down of the
5 RTOs. Next slide.

6 In 2004 we installed a state of the
7 art drying and heat energy system. It was a
8 \$26 million upgrade. The technology results in
9 reduced emissions through essentially lower dryer
10 inlet temperatures, which is accomplished by
11 recycling dryer exhaust back to the inlet of the
12 dryer and back to the clean energy system. It is
13 also a gentler drying process. The old process
14 was triple pass dryers where the flake is going
15 through the drum three times. In this case the
16 flake just goes through in a single pass, much
17 less tumbling, a much gentler drying process, much
18 more consistent heat, and much more efficient than
19 the older version. The end result is lower VOC
20 emissions.

21 MR. WARKENTIN: I just want to add
22 here that this is the equipment that every new
23 mill would install in order to reduce those
24 emissions at the source. There is a very
25 important part, as we discussed yesterday during

1 the tour, that's missing from your consultant's
2 report, and that is the recycled gas, recycle
3 exhaust gas loop that results in the lower ambient
4 temperatures. So that's a very, very critical
5 component of this technology that's missing from
6 that report.

7 MR. HAMBLEY: As Kevin mentioned in
8 his introduction, we started down this path eight
9 years ago. A 26 million-dollar upgrade is not
10 something that we can simply do overnight. We
11 recognized early on there was a need to address
12 the wood residue imbalance. We had an extremely
13 large pile of bark that we needed to deal with, so
14 we saw the opportunity to optimize the resource
15 and balance our energy demands. At the same time
16 we saw the potential to eliminate RTOs through
17 that new drying technology, which would result in
18 reduced emissions of greenhouse gases and nitrogen
19 oxides.

20 We initiated discussions with Manitoba
21 Conservation back in 2001, as we started on this,
22 with this project. And we are members of a
23 community liaison committee, which is a committee
24 that is in place to ensure that concerns from the
25 community and with LP, vice versa, are addressed.

1 There is open dialogue. The community liaison
2 committee consists of the RM of Swan River, the RM
3 of the Town of Swan River, the RM of Minitonas,
4 the Town of Minitonas, ourselves. Manitoba
5 Conservation chairs the committee and we
6 participate in that with the committee. I will
7 note that the Concerned Citizens of the Valley
8 were members of the CLC until they decided to
9 withdraw from the committee.

10 Next slide, please?

11 MR. WARKENTIN: I just want to add,
12 just emphasize again at this point, there has been
13 some mention that it is, you know, LP is doing
14 this for economic reasons now with the market
15 downturn, and that's not at all the case, and we
16 can demonstrate that. There are minutes and such
17 that prove this. We have been talking about this
18 very publicly through the community liaison
19 committee with Manitoba Conservation for eight
20 years now. Now with the market situation we have
21 accelerated our proposal, but it is something that
22 we were going to do regardless.

23 MR. HAMBLEY: Just to leave you with
24 the last bullet point, again, we have the latest
25 process technology in place to reduce emissions.

1 And as I mentioned, that's the single pass drying
2 technology and heat energy system that was
3 installed in '04.

4 So I'm going to now get into some of
5 the details of our request to Manitoba
6 Conservation for these proposed amendments. Those
7 amendments to the environmental licence include
8 requesting an increase in the emission limits from
9 the press, it includes formaldehyde, benzene, MDI
10 and VOCs. And we are also requesting an increase
11 in emission limits from our wet electrostatic
12 precipitators from formaldehyde and benzene.

13 In November of last year we submitted
14 our application. Next slide.

15 MR. WARKENTIN: Increasing these
16 limits will allow us to shut down the RTOs, so
17 these are the specific points that are in front of
18 the CEC for review. This application is available
19 in public records. It is also available through
20 the CEC website, if I'm not mistaken.

21 MR. HAMBLEY: Proposed modifications
22 include the construction of a single 49.5 metre
23 dryer for the electrostatic precipitator stack.
24 This stack height results in optimum dispersion,
25 meaning lower or lowest ground level

1 concentrations. We could have modeled a higher
2 stack, but our research determined that a higher
3 stack would not result in any greater, or lesser
4 ground level concentrations I should say. So it
5 is the appropriate height for optimum dispersion.
6 All other emission sources remain unchanged. Even
7 without RTOs, again, we will still have the latest
8 emission control technology in Canada, in the
9 industry in Canada.

10 THE CHAIRMAN: Excuse me, all other
11 emissions sources will be changed because you will
12 be reducing the amount of greenhouse gases,
13 correct?

14 MR. WARKENTIN: Licensed emissions.

15 THE CHAIRMAN: Licensed, okay.

16 MR. HAMBLEY: I think it is important
17 to note that our proposed emission limits are more
18 representative of the industry now than they were
19 in 1994. Back in 1994, they were developed based
20 on very limited information, including engineering
21 estimates and emission factors. There was
22 obviously no site specific data available and very
23 limited industry data, and there were many
24 assumptions made, assumptions in what types of
25 things go into the dispersion models, but also how

1 the mill is going to operate.

2 In 2009 our proposed emission limits
3 are based on actual site specific data. We have
4 been operating it for 13 years. We have installed
5 the latest drying technology. And we now have the
6 benefit of extensive industry data through various
7 groups like National Council of Air and Stream
8 Improvement. U.S. EPA has developed a lot of
9 emission data that we drew on. And there has also
10 been industry specific stack testing methods
11 developed and made available to us. So we believe
12 that our application is much more robust now based
13 on 13 years of site specific data and operational
14 experience.

15 MR. WAIT: Commissioner Wait. I had a
16 question in regards to other sources of
17 formaldehyde within the plant. Is there any off
18 gassing from the OSB board that's being stored
19 within the facility, and how is that recovered?

20 MR. HAMBLEY: You know, we do some
21 indoor air quality monitoring for formaldehyde,
22 and those results are very, very low. So I don't
23 think, if I'm understanding you correctly, that
24 the board after its been through the pressing and
25 it is just sitting in the warehouse --

1 MR. WAIT: That's correct.

2 MR. HAMBLEY: -- we don't see much
3 emission whatsoever. There are some emissions
4 that come off the pressing operation because we do
5 add phenol formaldehyde, very, very low
6 formaldehyde resins in our -- in the development
7 of the board, so there are some emissions that
8 come off the press in that regard. Does that
9 answer your question?

10 MR. WAIT: Yes, thank you.

11 THE CHAIRMAN: Before you leave that,
12 could I just ask a follow-up on that? I realize
13 in our discussions with you, you mentioned we are
14 not addressing future emissions here, but I was
15 just wondering if there is -- and I realize that
16 Louisiana Pacific has probably a health and safety
17 program, do you monitor in terms of these fugitive
18 emissions in-house, the kinds of worker exposures,
19 or is there anything like that done at the
20 facility?

21 MR. HAMBLEY: Annually, we do
22 primarily dust exposure and noise. Again, we have
23 done quite a bit of area monitoring that doesn't
24 suggest that we have high levels of formaldehyde
25 that employees could be exposed to. But during

1 our monitoring programs, we do monitor the area
2 for formaldehyde emissions.

3 THE CHAIRMAN: Thank you.

4 MR. HAMBLEY: And we can make that
5 information all available to you.

6 THE CHAIRMAN: Thank you very much.

7 MR. HAMBLEY: Next slide.

8 Importantly, as I mentioned, we continue to meet
9 high standards. Even with proposed changes, we
10 will still be subjected to more compliance
11 conditions than any other OSB mill in Canada. And
12 this is a reference, appendix C from the
13 consultant's report. I will reference this as the
14 SENES report, but Mr. Chairman, would you -- could
15 you sort of define what that SENES report is for
16 me?

17 THE CHAIRMAN: Essentially, for those
18 folks that aren't familiar, we have asked our
19 consultant, SENES, to provide us with information
20 on the background of the OSB industry in Canada.
21 So in that perspective, we asked them to look at,
22 in particular, regulatory environments of North
23 America, as well as looking at just generally what
24 happens in the OSB industry and the types of
25 technology that's applied, both process wise and

1 pollution abatement wise. It is available, by the
2 way, on our website.

3 MR. HAMBLEY: Thank you.

4 THE CHAIRMAN: I'm assuming some
5 people have probably looked at it already.

6 MR. HAMBLEY: Those types of things
7 that we monitor for specifically include MDI,
8 hydrogen cyanide, phenol, benzene, nitrogen oxides
9 and VOCs. There is only one other facility that
10 we are aware of that is regulated on benzene, and
11 their limit is six times higher than our proposed
12 limit. So, again, we will continue to meet high
13 standards and all of the proposed limits that we
14 are requesting conform with any applicable
15 industry standards in Canada.

16 MR. WARKENTIN: I will just add or
17 reemphasize that there is no other facility in
18 Canada that has the list of criteria that we do in
19 our permit currently, that we are not asking to
20 eliminate in terms of needing to comply with the
21 emission limits, or to conduct monitoring for, or
22 to conduct ambient monitoring for. These kinds of
23 things are absolutely unheard of in the industry,
24 So we will, in fact, meet the highest standards in
25 Canada.

1 MR. HAMBLEY: As Kevin mentioned in
2 his introduction, we have followed the process, we
3 have heard and read some criticism that perhaps we
4 circumvented the process, and this is simply not
5 the case. We followed the process that is
6 outlined in the Manitoba Environment Act. We
7 applied for an alteration to the development,
8 which included filing a proposal. Manitoba
9 Conservation determined that it is a major
10 alteration to the development, resulted in a
11 screening process where the proposal was reviewed
12 by Manitoba Conservation, the public and Manitoba
13 Conservation's technical advisory committee, which
14 is comprised of several branches of the
15 government, including Manitoba Health. Public
16 review was conducted through media advertisement
17 and placement of the proposal in the public
18 registry. There is a 30-day public consultation
19 period, and in this case ours was extended an
20 additional two weeks as people requested more time
21 to review the information. The Minister called
22 for a Clean Environment Commission review and
23 recommendations, and that's why we are here today.
24 Ultimately, we will have a licensing decision by
25 Manitoba Conservation at some point in the future.

1 Next slide. Once again, just to leave
2 you with some important items that I have
3 discussed, our proposed limits are based on site
4 specific data, I can't emphasize that enough. And
5 our proposed limits conform with industry
6 standards in Canada.

7 This next section now, I will show in
8 detail how we meet all applicable ambient air
9 quality criteria, and also which of course means
10 that we -- there will be no adverse effect on the
11 environment or community health. So this is a
12 very important part of our proposal and our
13 presentation. So I will go through that in some
14 detail now.

15 It is important to define what our
16 dispersion modeling is up front. It predicts the
17 maximum ground level concentrations for comparison
18 to ambient air quality criteria. It demonstrates
19 the proposed emission limits will meet all
20 Manitoba ambient air quality criteria, it will
21 show that, and ensure protection of community
22 health and environment.

23 MR. WARKENTIN: It should be
24 emphasized here, it predicts the maximum, the
25 absolute maximum for various time periods that I

1 will also talk about right away, but these are --
2 the maximum that the model predicts will be out
3 there.

4 MR. HAMBLEY: Our modeling approach
5 was approved up front. The model we used was a
6 conversion called ISC-PRIME. As I mentioned
7 earlier, there is many models available, we used
8 ISC-PRIME. It is referenced in Manitoba's
9 guidelines for air dispersion modeling, and it was
10 approved of in advance, well in advance before we
11 used it. I mean, we wouldn't want to get to the
12 point where we submit our model and find out that
13 it wasn't accepted. So it was approved in
14 advance.

15 We don't have the in-house expertise
16 for modeling. It is done by an outside
17 consultant. We used Olsson Associates, based in
18 Colorado. And Manitoba Conservation determined
19 that results were acceptable. In fact, they did
20 two levels of review. They utilized their
21 environmental engineer, plus their own external
22 air quality expert, and deemed the results
23 acceptable.

24 Next slide. And now we get into the
25 modeling results. And this again, I will

1 emphasize this is without RTOs, so maximum ground
2 level concentrations meet all applicable ambient
3 air quality criteria without RTOs. And we
4 understand that the community could be concerned
5 with certain species of VOCs, namely formaldehyde
6 and benzene, because they are considered
7 carcinogens. MDI once again is one of the resins
8 that we use in our process, so we want to discuss
9 that in a little bit more detail. But I just want
10 to emphasize, and we will show you this, we will
11 demonstrate this, formaldehyde is below ambient
12 air quality criteria 100 per cent of the time.
13 And same with benzene, below ambient air quality
14 criteria 100 per cent of the time. And same with
15 MDI, below ambient air quality criteria 100 per
16 cent of the time.

17 MR. WARKENTIN: That's important,
18 because as you will recall from Al's discussion
19 about what the ambient air quality criteria mean,
20 those are established at the level where there was
21 no adverse effect on people or the environment.
22 So, if you can prove that you can meet those 100
23 per cent of the time, you can demonstrate no
24 adverse effect.

25 MR. HAMBLEY: Now, this is going to be

1 difficult I think for the people towards the back
2 of the room. But this is really a summary of what
3 we are going to describe in some detail here.
4 This compares Manitoba ambient air quality, this
5 compares our modeling result to the Manitoba air
6 quality criteria. And we have also included U.S.
7 EPA ambient standards. So formaldehyde, for
8 example, is one of the contaminants of most
9 concern, as I said, it is a carcinogen, so people
10 could be concerned about that. But our maximum
11 ground level concentration, and as Kevin said,
12 that's the worst one hour out of an entire year,
13 is 56.9 micrograms per cubic metre versus the
14 Manitoba criteria of 60. So as we approach the
15 Manitoba criteria, we do not exceed it. And this
16 is the only substance that comes close to the
17 ambient air quality criteria.

18 Benzene, the maximum predicted ground
19 level concentration by the model, 2.1 micrograms
20 per cubic metre over one hour, versus a standard
21 of 30. And Manitoba does not have air quality
22 standards for benzene, so where those standards
23 don't exist, we used from other jurisdictions, in
24 this case Alberta, which is 30, so 2.1 versus a
25 standard of 30. Over a 24 hour period, maximum

1 ground level concentration, .6 is the predicted
2 level of concentration versus a standard of 10.
3 Again, Manitoba does not have air quality
4 standards for benzene, but Quebec does, so we used
5 the Quebec standard.

6 Then similarly for the rest of these
7 substances, hydrogen cyanide, 3.9 maximum
8 predicted versus a standard of 40, for an annual
9 period of .05 versus a limit of 3. MDI, 1.9
10 maximum predicted ground level concentration over
11 a one hour period versus a standard of 3; .09
12 versus a standard of .5. For nitrogen oxides,
13 147.8 over a one hour period versus a standard of
14 400. As I mentioned before, we will actually be
15 reducing nitrogen oxides. 24 hour period, 64 and
16 a half versus a standard of 200. The rest of
17 these are all Manitoba air quality criteria now.
18 Annually, maximum ground level predicted
19 concentration, 8.5 versus a standard of 100.
20 Phenol, maximum predicted level of concentration,
21 38.5 versus a standard of 63. Particulate matter
22 of 39.7 versus a standard of 120. An annual
23 basis, 6.6 versus a standard of 70. Particulate
24 matter, the finer components of dust, 32.4 versus
25 a standard of 50, and 22.3 versus a standard of

1 30. So in all cases well below the applicable air
2 quality criteria.

3 And in the last column, because there
4 was mention that there are no -- first of all,
5 there are no Manitoba or Canada air quality
6 standards, that's simply not the case. Manitoba
7 has very stringent air quality standards or
8 guidelines.

9 The suggestion was that the U.S. EPA
10 was much more stringent. That's not the case. In
11 most cases there is no ambient air quality
12 standard in the U.S. Where they do exist,
13 Manitoba's are as strict or more strict.

14 Anything to add?

15 MR. GIBBONS: Before you leave this
16 chart, I'm wondering, and I don't know if you have
17 these numbers at the tip of your tongue, so maybe
18 it could just be a ballpark figure, but what you
19 are showing in column one are the maximums,
20 typically the worst one hour in the course of a
21 year. But if we were looking at formaldehyde and
22 comparing it to the Manitoba criteria, of course,
23 the average or the more typical output would be
24 considerably lower. Can you give us a ballpark
25 figure, say for formaldehyde, some of the ones

1 where you get a little bit close on the worst hour
2 kind of scenario? How much variability would
3 there be in the sense that, for example,
4 formaldehyde might normally be a lot less than
5 56.9, or does it run close to 56.9 fairly often?

6 MR. HAMBLEY: No, it doesn't. That's
7 clearly the worst one hour. But if I can proceed
8 over the next couple of slides, I hope I can
9 answer your question exactly. Is that okay?

10 MR. GIBBONS: That would be fine.

11 MR. HAMBLEY: Next slide, please?

12 Because formaldehyde did approach the
13 ambient air quality criteria, this next series of
14 slides is going to focus specifically on
15 formaldehyde. And this is a frequency graph, this
16 shows how often that maximum one hour ground level
17 concentration will occur. So on the Y axis we
18 have the maximum one hour concentrations, and on
19 the bottom we have the number of hours in the
20 year. Here is the air quality criteria at 60.
21 You can see this blue area is the model predicted
22 ground level concentrations over the course of the
23 year. The maximum one hour occurs up here. And
24 again, it is only for a very, very rare occasion.
25 For the most part, 99 per cent of the time it is

1 less than 30, or one half the ambient air quality
2 criteria. And I think if I was to ballpark an
3 average, it would be probably around 10. Does
4 that answer your question?

5 MR. GIBBONS: Thank you.

6 MR. HAMBLEY: So I guess just to
7 emphasize, this is one hour out of an entire year
8 which is 8,760 hours. Statistically speaking, a
9 one hour event is a very, very rare occurrence.

10 MR. WAIT: I had a question. Seeing
11 the one hour averages 56.9, what would the maximum
12 level within the one hour period be,
13 approximately? The average is, like I say, 56;
14 what would the highest value within that hour
15 period be?

16 MR. WARKENTIN: That's not how the
17 dispersion model works. You look at, first of
18 all, the applicable criteria is averaged over a
19 one hour basis. So that's how that limit is
20 established. The model then predicts that maximum
21 one hour out of that entire year. So I don't
22 think -- well, you may be able to pick out those
23 individual periods, but the averaging period is
24 what you compare to the standard.

25 MR. WAIT: Is there any condition in

1 the operation of the plant that would correlate to
2 that 56.9?

3 MR. HAMBLEY: Actually, that's a
4 really good point. Because that maximum one hour
5 ground level concentration assumes that the mill
6 is running 365 days of the year at its maximum
7 proposed emission rate. So we have never run 365
8 days of the year. So we might hit that once in
9 two or three years.

10 MR. WAIT: So, in theory, over the
11 course of the life of the plant, it is never going
12 to get higher than the 56.9, if that's a maximum?

13 MR. HAMBLEY: That's what our modeling
14 predicts.

15 MR. WARKENTIN: And even that
16 statistically is a very rare occurrence.

17 THE CHAIRMAN: One second, I think you
18 have answered the question, I'm not sure if
19 everyone else picked this up. So the 8,548 hours
20 is the total hours in the year, and it assumes
21 that your plant is operating the entire time of
22 the year?

23 MR. HAMBLEY: Yes.

24 THE CHAIRMAN: Thank you.

25 MR. HAMBLEY: Next slide. As I said,

1 we are just sort of focusing on formaldehyde here
2 because it was the one substance that approached
3 the Manitoba ambient air quality criteria. This
4 is essentially the output of our dispersion model
5 which shows the ground level concentrations and
6 how they are dispersed from the plant over the
7 course of the year.

8 The maximum ground level concentration
9 occurs in this area here, which is just this side
10 of the Duck Mountains. Again, the maximum ground
11 level concentration, and I know you won't be able
12 to read this in the back, but it is 56.857 versus
13 the air quality criteria of 60. Again, that's the
14 worst or maximum that occurs once out of an entire
15 year.

16 We've also put this wind rows up in
17 the corner. The wind rows shows the frequency of
18 winds in a particular area over the course of a
19 period of time, in this case it was a year. This
20 shows that, these individual spokes indicate the
21 longer the spoke, the more frequent the wind. So,
22 the predominant winds occur in this area, the
23 southwest, west southwest quadrant, the winds go
24 in this direction, from here to here. There is
25 also a significant easterly component going this

1 way. The maximum ground level concentration
2 occurs when winds are in this quadrant here. So
3 winds are coming this way. But they occur very,
4 very infrequently, probably three to five per cent
5 of the time. So that combined with very specific
6 meteorological conditions, the fact that the plant
7 is running at its maximum emission rate for 365
8 days of the year, also the fact that we are right
9 on the edge of the Duck Mountains, so that change
10 in elevation is also an influence, and that's how
11 you arrive at a maximum ground level concentration
12 down in that area. That's about as much as I know
13 about our modeling.

14 MR. WARKENTIN: It is probably that
15 change in elevation that dominates that result.
16 That's why you get the result to the southeast
17 even though your predominant winds are from the
18 southwest. There is about a 60 metre elevation
19 difference between the plant and that. And an
20 elevation map will show very clearly right across
21 the bottom that you are elevating towards us, that
22 you are increasing in elevation.

23 MR. HAMBLEY: Next slide. So this is
24 an aerial photograph of the area, this is the
25 plant here, and here is where that maximum ground

1 level concentration occurs, again, once out of an
2 entire year. It just shows, it is as the crow
3 flies about three kilometres south of the plant.

4 Next slide.

5 MR. WARKENTIN: I think what it also
6 shows is that there has been some, you know,
7 stated concern that we are talking far flung
8 impacts, and that is not the case at all. They
9 are fairly localized, even looking at the maximum,
10 it is fairly local to the plant.

11 MR. HAMBLEY: Now we will look at
12 frequency graphs for the remainder of the
13 parameters. This one in particular, MDI, again,
14 we are below Manitoba ambient air quality criteria
15 100 per cent of the time. That criteria is 3,
16 which is the solid red line at the top. The blue
17 area is the maximum predicted ground level
18 concentrations, so well below that 100 per cent of
19 the time.

20 For benzene, one hour, again, Manitoba
21 doesn't have a standard so we used Alberta, below
22 applicable air quality criteria 100 per cent of
23 the time. There is the limit of 30, and there
24 is -- the blue area was the measured
25 concentrations.

1 MR. WARKENTIN: It is pretty low, I
2 will have to duck so you guys can see it.

3 MR. HAMBLEY: Next slide. This is the
4 benzene, 24 hour again. Here is the applicable
5 limit and here is the maximum predicted, very,
6 very low.

7 Next slide. Hydrogen cyanide, below
8 air ambient criteria 100 per cent of the time. A
9 limit of 40, here is the maximum predicted
10 emissions rates.

11 Next slide. Phenol, 63 is the air
12 quality criteria, again, the blue area is the
13 model prediction, so well below ambient air
14 quality criteria.

15 Next slide. Similarly for nitrogen
16 oxides, well below the criteria 100 per cent of
17 the time. It is 400. The predicted emission rate
18 is down here, our prediction ground level
19 concentrations I should say.

20 Next slide. Nitrogen oxide measured
21 over a 24 hour period, or predicted over a 24 hour
22 period, well below the criteria of 200.

23 Next slide. Total suspended
24 particulate, again the blue areas are predicted
25 ground level concentrations versus a limit of 120,

1 well below.

2 Next slide. Now we are looking at
3 particulate matter and the final particulate --
4 what is the word that I'm looking for, Kevin?

5 MR. WARKENTIN: Final particulate
6 matter, inhalable particulate.

7 MR. HAMBLEY: Below Manitoba and U.S.
8 EPA 24 hour air quality criteria 100 per cent of
9 the time. It shows again that Manitoba has more
10 stringent standards than the U.S. EPA. Here is
11 our maximum predicted ground level concentration
12 versus a limit of 50, well below that and well
13 below the U.S. EPA national air quality standard.

14 Same result for PM, 2.5, well below
15 Manitoba air quality criteria and the U.S. EPA
16 criteria as well.

17 So just to summarize that whole
18 discussion here, the modeling demonstrates that
19 the proposed emission limits will meet all ambient
20 air quality criteria 100 per cent of the time. By
21 doing so, meeting the ambient air quality
22 criteria, if you recall the definition, no adverse
23 effect on people or the environment, by meeting
24 the ambient air quality criteria, we ensure
25 protection of community health and environment.

1 Once again it is one of the tests. If
2 we can not meet ambient air quality criteria, we
3 would not have proceeded with our proposal.

4 Now, the second aspect of our proposal
5 and demonstrating protection of the community
6 health and environment, and that is the health
7 risk assessment.

8 So once again, define what a health
9 risk assessment is, it calculates a risk level
10 based on the maximum ground level concentrations
11 predicted by the dispersion model, which is
12 everything that I have just described in the last
13 few minutes, and compares that to the ambient air
14 quality criteria, and in some cases human exposure
15 data bases.

16 The health risk assessment
17 demonstrates that the risk associated with the
18 proposed emission limits ensure protection of
19 community health and environment.

20 Next slide. Our proposal, and
21 specifically the health risk assessment underwent
22 some rigorous external review, including Manitoba
23 Conservation's technical advisory committee
24 reviewed the health assessment in March, and there
25 were no issues or concerns identified. And I

1 think this is a very important quote from Manitoba
2 Health, one of the members of the TAC.

3 "In general it seems to make sense
4 that LP Canada Ltd., Swan Valley OSB
5 plant be held to the same emission
6 limit standards as that of other
7 similar industries throughout the
8 province and country."

9 In addition, OHG Consulting, which is
10 a Winnipeg based environmental health consulting
11 firm, reviewed our health risk assessment in June
12 and agreed with our conclusions.

13 Next slide. Those conclusions are,
14 the health risks associated with cancer -- and I
15 think it is important once again that we
16 understand the concerns particularly with
17 formaldehyde and benzene that are identified as
18 human carcinogens -- the health risk associated
19 with cancer was determined to be less than one in
20 a million, and the one in a million risk level is
21 accepted worldwide.

22 The non-cancer risks, and I will
23 describe these in the next couple of slides, the
24 non-cancer risks are characterized as no adverse
25 effect. And they are applied to the ambient air

1 quality criteria.

2 So what does one in a million mean?

3 And this is a quote from the commissioner of the
4 U.S. Food and Drug Administration. I think it is
5 quite an interesting quote and really good
6 description.

7 "The risk of one in a million is often
8 misunderstood by the public and media.
9 It is not an actual risk, i.e. it is
10 not expected that one out of every
11 million people will get cancer if they
12 drink decaffeinated coffee. Rather,
13 it is a mathematical risk, based on
14 scientific assumptions used in risk
15 assessment. When the FDA uses the
16 risk level of one in a million, it is
17 confident that the risk to humans is
18 virtually non-existent."

19 Next slide. So what does no adverse
20 effect mean? Recall that the ambient air quality
21 criteria are set at levels at which there is no
22 adverse effect for people or the environment. Our
23 dispersion modeling showed and demonstrated that
24 all ambient air quality and criteria are met 100
25 per cent of the time. So therefore the term no

1 adverse effect is used.

2 Next slide. This summarizes the risk
3 levels associated with those parameters that were
4 modeled and part of the health risk assessment.

5 There are levels associated with proposed emission
6 limits. So here, for example, we have
7 formaldehyde again. And yes, it is a carcinogen.
8 The health risk, because it is a cancer causing
9 agent, it is subject to a national mathematical
10 calculation that was determined to be seven out of
11 one billion. So that is three orders of magnitude
12 lower than the one in a million risk level that is
13 considered to be virtually non-existent.

14 Similarly for benzene, again, it is a
15 carcinogen, but the health risk level was
16 determined to be 2.3 out of ten million, which is
17 an order of magnitude more than the one in a
18 million risk level considered to be virtually
19 non-existent.

20 MR. WARKENTIN: And those are based on
21 the maximum ground level concentrations that the
22 model derives. So again it may not be what the
23 average is, or what you are really exposed to, but
24 this is based on the maximum ground level
25 concentration from the modeling.

1 MR. HAMBLEY: Fossil fuels, those
2 remaining substances that are non carcinogens,
3 hydrogen cyanide, MDI, et cetera, et cetera, they
4 are all characterized as no adverse effect, you
5 will recall, because 100 per cent of the time we
6 meet all air ambient quality criteria.

7 Just to provide a little bit of
8 perspective, so we have compared our risk levels
9 to every day risks. The lifetime risk of all
10 cancers, two in 100, the chance of a motor vehicle
11 accident, 1.7 in a hundred, the chance of a home
12 accident, 8 in a thousand. You know, comparing
13 the risk levels identified in our health risk
14 assessment, proposed formaldehyde limit, 7 in
15 1 billion, proposed benzene limit, 2.3 in
16 10 million. So those health risks associated with
17 our proposed emission limits are considered to be
18 virtually non-existent.

19 THE CHAIRMAN: Al, can I just ask,
20 what references are you using here, in terms of
21 life time all cancers, is that a Health Canada
22 or -- I'm just wondering what the sources the data
23 are?

24 MR. HAMBLEY: My source was OHG
25 Consulting in Winnipeg, so I can find those

1 specific items if you like.

2 THE CHAIRMAN: If it is possible, we
3 would like to know the reference sources.

4 MR. HAMBLEY: Sure. Okay.

5 THE CHAIRMAN: Thank you.

6 MR. HAMBLEY: I think it is important
7 to note that early on, and likely due to some of
8 the uncertainty with a new facility and industry
9 coming to the valley, and some of the issues that
10 LP was having in the U.S., it was a requirement of
11 our licence to conduct a health status study. So
12 in 1995, we conducted a baseline community health
13 status study, where in this study the health was
14 broadly defined to include physical,
15 psychological, social and economic and
16 environmental well-being, so a very broad
17 definition of health.

18 We are unaware of any other similar
19 study in at least our industry or in Canada, so it
20 is virtually unprecedented at the time, no one
21 else was doing this. But LP agreed to do this or
22 was mandated to do this as part of the licence.

23 In 2001 there was a follow-up
24 community health status study, and it was based
25 really on a health risk perception, or health

1 perception survey. It was undertaken to determine
2 whether or not the mill was perceived to have an
3 effect on health. For better or worse, it is
4 measured against the baseline. And the
5 conclusions of that study were that there has been
6 an increasing and general consensus that the plant
7 is a good thing. So that goes back to the very
8 broad definition, people consider the plant to be
9 a good thing in the valley. And in 2006 Manitoba
10 Conservation determined that no further health
11 studies were warranted.

12 Anything to add to that?

13 MR. WARKENTIN: I think what might be
14 important there is, as far as the follow-up study
15 is concerned, is that the study plan indicated
16 that if the results of the perception survey
17 suggested that there were concerns or people
18 perceived that their health had been negatively
19 impacted, that there would be further actual field
20 work done to confirm that, much in the line of
21 what was done in the baseline study in 1995.

22 THE CHAIRMAN: Could you, for the sake
23 of everyone present, perhaps just sort of describe
24 what sort of testing was done in the baseline
25 health study versus the perceived health risks in

1 the follow-up study? Like what sort of physical
2 testing was conducted for the baseline study?

3 MR. WARKENTIN: Primarily a pulmonary
4 function study was done. So there was a control
5 community, Benito was the control community, at
6 the time about the same size community with the
7 same demographics. So that was then used to
8 establish what that baseline would be. I believe
9 there was a lung function study as well. So those
10 were the two elements. And there was also, pardon
11 me, part of that baseline study included a record
12 search of hospital admissions. And so all of that
13 would have been evaluated as part of the follow-up
14 had the perception survey identified a potential
15 concern.

16 THE CHAIRMAN: Thank you.

17 MR. HAMBLEY: Next slide. Did you
18 mention the \$500,000 spent on this?

19 MR. WARKENTIN: This was not,
20 conducting these health status studies, because
21 they are -- because there was a risk, was not a
22 minor undertaking by any means. So there has half
23 a million dollars in health studies there, a
24 significant investment in that work.

25 MR. HAMBLEY: Just to summarize the

1 last section in a couple of bullet points, again,
2 the health risk assessment demonstrates cancer
3 risks are virtually non-existent, non-cancer risks
4 characterized as no adverse effect. And this is
5 without RTOs. The health risk assessment
6 demonstrates that the proposed emissions will
7 ensure protection of community health and
8 environment.

9 As I said before, if we could not meet
10 this test, if we thought there was going to be an
11 effect on people's health and the environment, we
12 would not have pursued this further.

13 So up to this point I have described
14 the dispersion modeling and the health risks,
15 which are all predictions, and now I just want to
16 talk a little bit about proof on the ground. We
17 have been operating and monitoring the ambient air
18 quality program since 1995, and I want to review
19 that now.

20 We are operating a comprehensive air
21 monitoring program to collect meteorological and
22 air quality data in the vicinity of the plant. We
23 have two sites. Site one is located a kilometre
24 and a half northeast of the plant, and I will show
25 you a picture of that in a second. Site two is

1 located two kilometres west of the plant.

2 Next slide. This is a picture showing
3 location of the plant and the area of monitoring
4 site number one and monitoring site number two.

5 Again, I have shown the wind rows which shows the
6 frequency of winds in a particular area. Again,
7 the longer spokes indicate more frequent winds.
8 So the predominant winds are in the southwest
9 quadrant, meaning they blow this way. And then
10 there is a strong easterly component as well,
11 which means the winds are coming this way.

12 So there has been some criticism about
13 where our sites were located, and I will say that
14 they are appropriately located. You locate the
15 monitoring sites in the areas of the prevailing
16 winds, again, which is this way, at the closest
17 residence. And this is Shirley Rose's property
18 here.

19 And then site number two, again,
20 situated in one of the -- sorry, the secondary
21 prevailing wind, and directly in the middle
22 between the plant and sort of the main population
23 centre, which is Minitonas. So, again, these
24 monitoring sites are appropriately located.

25 MR. WARKENTIN: I will just add that

1 this meteorological data, the wind rows that Al is
2 referring to, that's based on information
3 collected at our own meteorological station
4 located near the plant. It is actually at
5 monitoring site number one. There has been
6 comment about whether the sites were appropriately
7 located based on information used in 1995 in the
8 environmental impact assessment. In fact, the
9 wind rows here are very, very similar to that.
10 And so it does demonstrate that the sites were
11 appropriately located and still are appropriately
12 located. In fact, there is stronger -- a larger
13 easterly component to the winds now than there was
14 then, then so monitoring site two is more
15 appropriate than originally thought.

16 THE CHAIRMAN: Excuse me, just for my
17 clarification, essentially you are saying that the
18 monitoring stations have been appropriately
19 located based on wind direction and population,
20 but not necessarily predicted maximum ground level
21 concentrations based on modeling?

22 MR. WARKENTIN: You would not locate a
23 station necessarily where the maximum occurs if
24 there isn't residents or another important local
25 receptor there to locate by. The point is, 30 to

1 40 per cent of the winds come from that southwest
2 direction towards monitoring site number one.
3 Then you are monitoring the ground level
4 concentration, the maximum ground level
5 concentration which occurs now to the southeast.
6 Wind directions are only 3 to 5 per cent towards
7 that direction out of an entire year.

8 THE CHAIRMAN: So could you perhaps
9 explain, I think I understand it but I'm not sure
10 if everyone in the room understands it, the reason
11 why the dispersion model maximum ground level
12 concentrations aren't used to locate monitoring
13 stations, versus it makes more sense to locate
14 them in the prevailing wind directions and
15 populated centres? Can you explain that for
16 everyone else?

17 MR. HAMBLEY: Well, the maximum ground
18 level concentration occurs down in this area for
19 one hour out of an entire year. The winds in this
20 case are very infrequent, so the chance of
21 occurrence is very, very low. Whereas here
22 predominant winds, as Kevin said, 30 to 40 per
23 cent of the time traveling this way, they are
24 located in an area where you are going to measure
25 an impact, over the course of time you are going

1 to measure an impact there. It is very unlikely
2 you are going to see anything there.

3 MR. WARKENTIN: You typically do see
4 these monitoring networks operated, they will just
5 operate for a month or two. They are put in place
6 for a period of time, typically five years from I
7 have seen, from my experience in the industry, 13
8 years, 15 years now is nearly unheard of. But the
9 fact is, we are actually fairly lucky to have this
10 information to support our application. But, yes,
11 as Al said, you would look for that place where
12 you are likely to see the impact. If there is
13 going to be an impact, you want to make sure that
14 you are measuring it appropriately, which would be
15 the nearest residence on the down wind side.

16 THE CHAIRMAN: It is probably also
17 important to note that what you are measuring at
18 the monitoring stations is in compliance with the
19 ambient air quality criteria which is based on
20 human health risk, not generally environmental
21 risk.

22 MR. WARKENTIN: And also what we are
23 measuring at the ambient air quality station is
24 air quality influenced by any source in that area.
25 It is not necessarily the mill contributing to

1 that measurement, it is anything that's happening
2 that might contribute to air quality in that area.

3 THE CHAIRMAN: Thank you.

4 MR. WARKENTIN: Especially living in
5 an agricultural community, that's one of the major
6 impacts.

7 MR. HAMBLEY: So we have been
8 measuring air quality since 1995. This is a
9 picture of site number one, which shows where we
10 also collect meteorological data. We sample
11 particulate matter continuously. We sample VOCs,
12 formaldehyde and benzene on a six day sampling
13 frequency. This is not something that we select,
14 we don't pick the days we sample. We sample
15 according to the national air pollution schedule,
16 which is a six day cycle. And this is consistent
17 with the network of monitoring stations across the
18 country that all sample on the same schedule.

19 Phenol, MDI and hydrogen cyanide are
20 monitored quarterly, and these results are
21 submitted to Manitoba Conservation on a quarterly
22 basis as well. So they are kept aware of
23 everything going on in the facility.

24 MR. WARKENTIN: It is important to
25 point out that the monitoring is managed by an

1 expert third party experienced in doing this. The
2 plant is responsible for some of the data
3 collection, a lot of it is conducted by this
4 consultant, in particular the phenol, MDI and
5 hydrogen cyanide monitoring is done by the
6 consultant. And also just going back to, you
7 know, we are very fortunate that we have this
8 information to support our proposal. There are
9 very few of these monitoring networks out there
10 associated with the wood products industry, I only
11 know of a few and they typically happen in B.C.
12 They typically only look at a few contaminants,
13 formaldehyde in particular. There is no network
14 that I'm aware of that would be looking at phenol,
15 MDI, hydrogen cyanide, benzene, total VOCs. That
16 scope of work is unheard of. Again, this has been
17 no small investment, there has been approximately
18 \$2 million spent on this ambient monitoring
19 program since its inception. So in hindsight, I
20 would say that was a wise investment.

21 MR. HAMBLEY: This is some of the
22 results we collect at the ambient air monitoring
23 stations. This is measured average monthly 24
24 hour ambient particulate matter concentrations.
25 The concentration is on the Y axis, and here is

1 the time period on the X axis. In all cases we
2 are below the Manitoba 24-hour ambient air quality
3 criteria. It might be difficult to see, but there
4 is a blue line and a purple line. The blue line
5 is LP1, the purple line is LP2. In all cases they
6 mirror each other or follow each other, which is
7 indicative sort of regional sources. If there was
8 an impact from the mill, given that the
9 predominant winds are from the southwest, you
10 would see a much higher measured value at LP1.
11 But in fact they follow each other, which suggests
12 again regional impact. There is also a seasonal
13 component to this which is likely due to
14 harvesting activities.

15 Next slide. Kevin just reminded me
16 that, once again, this dotted line at the top is
17 the U.S. EPA national air quality standards. So
18 just to reiterate, Manitoba standards are much
19 more stringent than the U.S. EPA.

20 As I said, we also measure one hour
21 formaldehyde concentrations at the two stations,
22 and again in all cases we are below the ambient
23 standard of 60. There are measured peaks. In
24 most cases the winds are blowing away from the
25 station, so the measured concentration could not

1 be from the mill. But we do see some peaks that
2 the mill could have been a contributor, but,
3 again, we are well under the ambient guideline.

4 THE CHAIRMAN: Just one quick
5 question. Do you have any idea why there are
6 specific peaks at certain times of the year? Is
7 it in relation to the plant operation or any other
8 activities?

9 MR. HAMBLEY: Well, I mean, I would
10 suggest that there are other sources of
11 formaldehyde, regional sources. For example,
12 stubble burning, you are going to see measured
13 levels of formaldehyde, formaldehyde in
14 particular. Does that answer your question?

15 THE CHAIRMAN: Yes. Thank you very
16 much.

17 MR. WARKENTIN: I think what is
18 telling here is that, again to reiterate, we never
19 had a measurement exceeding the ambient air
20 quality criteria. The peaks where there are wind
21 directions identified, those are just to show
22 exactly when the wind was not blowing towards that
23 station and yet formaldehyde levels were detected
24 that really are the same magnitude as other peaks
25 where the mill may have been one of the

1 contributors. Again, we are not measuring
2 necessarily what the mill is emitting or the
3 mill's impact, we are measuring what is the
4 ambient air from any source from any area. So the
5 magnitude of these is the same whether, or can be
6 the same potentially, whether the wind is blowing
7 toward the station from the mill or away from the
8 station. So that's the point here.

9 Also, it is important to note that for
10 the most part you will see the two stations
11 essentially mirroring each other, so they are
12 measuring the same amount. Predominant winds
13 again being from the southwest 30 to 40 per cent
14 of the time, you would expect to see that blue
15 peak or the blue line higher than the pink line or
16 the purple line more regularly than that, if the
17 mill was having that rate of impact.

18 THE CHAIRMAN: Thank you.

19 MR. HAMBLEY: This shows the measured
20 24 hour ambient benzene concentrations. We had --
21 there were some measured concentrations early on
22 in 2001, seemingly related to the same fall period
23 in a single year. The highest measured
24 concentration, the winds were blowing away from
25 the station so the mill could not have been a

1 contributor in this lower peak. You know, there
2 may have been some contribution, we are not sure.
3 I think it is important to point out that down
4 here we did have a measured peak, but the mill was
5 down at the time, so we could have not been
6 contributing to that. And the vast majority of
7 the time, I mean, our X axis is 0.003, which is
8 limited detection for benzene. The majority of
9 the time we are well below detection levels.

10 MR. WARKENTIN: There are some 400
11 sample points represented in this graph, about
12 1600 a year.

13 MR. HAMBLEY: Measured 24 hour, we
14 have not had a single detect over the course of
15 our monitoring period. 24 hour phenol
16 concentrations, well below ambient air quality
17 criteria.

18 MR. WARKENTIN: In the case of that
19 specific event, the wind was not blowing towards
20 that station.

21 MR. HAMBLEY: Similarly, for ambient
22 hydrogen cyanide concentrations, well below
23 Manitoba ambient air quality criteria. Again, we
24 suspect a regional source, I couldn't tell you
25 what it could be. But the fact that there is a

1 measured concentration when the mill was curtailed
2 tells me that we are not contributing to that.

3 MR. WARKENTIN: And those two
4 specifically identified, again, were dates when
5 winds were blowing away from the station when that
6 concentration was measured.

7 MR. GIBBONS: Question, if I may? In
8 the early years of these charts, so these are
9 times when the RTOs were operating, what would you
10 expect these charts to look like with the RTOs
11 off, for example, with your new system in place,
12 do you have a ballpark idea there?

13 MR. HAMBLEY: Well, in fact, we could
14 go back to formaldehyde. This is likely
15 indicative of background conditions. These two
16 spikes here were measured during a period of time
17 when the RTOs were off, and in both cases winds
18 are blowing away from the ambient air stations, so
19 the mill could not have been contributing. So I
20 don't expect we will see any change over the
21 course of time with the RTOs off.

22 MR. GIBBONS: Thank you.

23 MR. WARKENTIN: In fact, it is in our
24 application, the predicted -- while, we have
25 looked at the maximum ground level concentration

1 to compare to the applicable air quality standard,
2 the application presents what the maximum
3 predicted concentration at the monitoring stations
4 is as well. And it is quite low, it is very low.
5 So that's at the nearest residence predominantly
6 down this side, or location between the mill and
7 the Town of Minitonas. It is in the 5 to 7
8 microgram range, not the 57.

9 THE CHAIRMAN: Al, just as a reminder,
10 if you could -- I realize you are coming to the
11 end of a section -- we request a coffee break or
12 refreshment break. We think we are getting a
13 little tired at this point in time, so if you want
14 to just wrap up this particular section, we will
15 take a break.

16 MR. HAMBLEY: So just to summarize,
17 you know, we looked at our ambient air quality
18 program, the actual measurement of ambient air
19 quality data. The information demonstrates that
20 all ambient air quality criteria are met. And in
21 our application we have committed to continue the
22 ambient air monitoring program to ensure ongoing
23 protection of community health and the
24 environment.

25 So just, I think it is a good time to

1 have the break, but I would like to show just one
2 more slide which just summarizes everything that
3 we've demonstrated up to this point. So if you
4 take nothing else away from what I have been close
5 to an hour talking about, we have demonstrated so
6 far, the dispersion modeling demonstrates all
7 ambient air quality criteria are met 100 per cent
8 of the time. The health risk assessment concludes
9 risks are virtually non-existent, or no adverse
10 effect. We have shown that with our continued
11 comprehensive ambient air quality monitoring, that
12 we have demonstrated that all ambient air quality
13 criteria are met. So overall we have demonstrated
14 that the proposed emission limits, without RTOs,
15 do not pose a risk to community health and the
16 environment.

17 THE CHAIRMAN: Thank you. With that,
18 I suggest about a 20 minute break. We will
19 reconvene in 20 minutes. Thank you.

20 (Hearing recessed at 10:33 a.m. and
21 reconvened at 10:58 a.m.)

22 THE CHAIRMAN: I think we will
23 reconvene the meeting now. And I will ask, I
24 guess, Al, you are still on deck here with lots of
25 things, so I will ask you to continue. Thank you.

1 MR. HAMBLEY: Thanks. So this is
2 where we left, and just described exactly what we
3 had talked about up to this point. And I just
4 want to reiterate that, you know, we have met the
5 test of ensuring protection of community health
6 and the environment. And once again, if we could
7 not meet that test, we would not have pursued
8 this.

9 We believe our application stands on
10 its own based on the science, and we have
11 demonstrated that RTOs are not required.

12 So having said all of that, I wanted
13 to discuss now that there is an actual
14 environmental benefit to our proposal in shutting
15 down the RTOs, in the form of greenhouse gas
16 emissions are reduced by 75 per cent. As we've
17 mentioned earlier, RTOs create greenhouse gases,
18 they generate 12,000 tonnes of greenhouse gases
19 each year. That represents just under one per
20 cent of all combustion sources in the
21 manufacturing sector in Manitoba. That may not
22 seem like a lot, but if all of the industry in
23 Manitoba could achieve that level, I think we
24 would be a lot further along in meeting our
25 commitments under Kyoto. 12,000, reducing

1 greenhouses gases by 12,000 tonnes is the
2 equivalent of taking 2200 vehicles off the road.
3 And we have been lead to believe that this is an
4 extremely important issue to Manitobans and
5 Canadians, in meeting our international greenhouse
6 reduction commitments. And this is our effort
7 towards that.

8 Next slide. The RTO elimination
9 aligns with international trends, it is consistent
10 with major environmental groups' goals to reduce
11 greenhouse gas emissions and reliance on fossil
12 fuels. These particular groups are openly
13 critical of governments not doing enough to reduce
14 greenhouse gases. We have learned that the
15 Manitoba Environment Act now requires
16 consideration of greenhouse gas emissions for any
17 major development. So as Kevin said earlier, for
18 a new development, a new OSB facility in Canada, I
19 don't believe that RTOs would be a consideration.

20 We also know that U.S. EPA regulations
21 are evolving to consider lifecycle impacts,
22 including greenhouse gas emissions. And this,
23 once again, is a reference from the SENES report.

24 Anything to add on that?

25 MR. WARKENTIN: Yeah, on that last

1 bullet, again there have been many references to
2 U.S. EPA regulations and such, and comparing that
3 to our application.

4 First of all, we are in Canada, we are
5 not in the States. We have our own set of
6 regulations. As Al has shown, clearly Manitoba
7 air quality criteria, there are more of them than
8 the U.S. EPA. has, they are much more stringent
9 where they do exist, they are equal to or are much
10 more stringent than the U.S. EPA ones. In fact, I
11 think the U.S. EPA has seen the error of their
12 ways, their approach has been very, very narrow
13 focused. The current system they have does not
14 allow for consideration of any other impacts. It
15 is a very limited scope in how they apply the
16 regulations. The system we have is more advanced,
17 a more holistic view, it allows you to consider
18 all of the impacts of the application of the
19 limits, or whatever technology might be out there.
20 So, as I have said, the U.S. EPA has recognized
21 that the SENES report references how in the next
22 round of MAC review they planned on addressing
23 that.

24 They have looked at that in the past
25 as well as looked at health risk assessments. And

1 there are some facilities in the States that we
2 are aware of that have been successful in either
3 shutting down RTOs, or not having to install them,
4 or RTOs or any other VOC controls, or not having
5 had to install them in the first place in order to
6 meet regulations, because of these negative
7 environmental trade-offs.

8 MR. HAMBLEY: Another benefit to
9 shutting off the RTOs is RTOs emit nitrogen
10 oxides, and as I said in our definition at the
11 beginning, nitrogen oxides contribute to smog and
12 ground level ozone. Ground level ozone is formed
13 when chemicals, including nitrogen oxides, react
14 chemically in the presence of sunlight. Ground
15 level ozone can have detrimental effects on plants
16 and ecosystems by making them more susceptible to
17 disease, insects and harsh weather. As I said,
18 NOx will be reduced by shutting off the RTOs.

19 One thing the mill was tasked with
20 early on was to look at the possible harmful
21 effects to plants and animals as a result of
22 exposures to mill plant emissions. There was a
23 flora and fauna study which looked at, as I said,
24 possible harmful effects to plants and animals.

25 In 1995 there was a baseline study

1 done, and then follow-up studies in '97, 2000 and
2 2005. It was concluded that emission of ozone
3 precursors, NOx, from the LPC mill at the OSB
4 plant do not currently appear to promote the
5 formation of ozone in the ambient environment at a
6 level considered harmful to plants. There was no
7 evidence of ozone related damage on samples of two
8 common local plants known to be sensitive to
9 ozone, trembling aspen and alfalfa. So even
10 though we are reducing nitrogen oxide emissions,
11 obviously then the conclusions are going to be
12 very similar, but we are committed to doing a
13 flora and fauna study again in 2010.

14 MR. GIBBONS: A very, very quick
15 question for the information of those of us
16 gathered here today, who was doing -- sorry, who
17 did and who do you project will be doing the
18 future test?

19 MR. HAMBLEY: TetrES Consultants out
20 of Winnipeg has done it since I have been
21 involved, and I believe they were involved in the
22 baseline. And I have had discussions with them.
23 I suspect it will be them doing it again.

24 Just to summarize, the benefits in
25 reducing or eliminating RTOs, a 75 per cent

1 reduction in greenhouse gas emissions, reduction
2 in nitrogen oxide emissions, and these goals are
3 consistent with Manitoba and Canadian commitments.

4 Just to talk about some other things
5 that the mill is doing to make sure that we are
6 continuing to be sustainable as a mill, continuous
7 process improvement, or continuous improvement is
8 one of the ways LP Swan Valley does business. As
9 I mentioned, in 2004 we invested \$26 million on
10 the latest energy system and drying technology.
11 This resulted in a 10 per cent improvement in
12 yield. And Kevin Betcher is going to step up
13 again and just describe exactly what is meant by
14 yield.

15 It also had lower temperature, single
16 pass drying generates fewer emissions. And this
17 project received honourable mention in 2005 at the
18 Canadian Council of Ministers and the
19 Environmental Pollution Prevention Awards, and we
20 are quite proud of that.

21 I will turn it over to Kevin quickly
22 here to describe what yield is.

23 MR. BETCHER: All right. Basically,
24 how we measure our raw material usage in OSB, it
25 is called yield. And basically what this chart

1 tells you is back in 1997 we utilized about .8 of
2 a cord to make 1000 square feet of OSB.

3 As you can see over the years, our
4 focus on continuous improvement is obvious. We
5 had a bit of a blip here, but essentially a stair
6 step down to using less of a log to make OSB. Our
7 stewardship wants us to, and our beliefs are
8 saying let's be as efficient with the resource as
9 possible and be stewards of the land.

10 We were at a 7/1 yield. When we
11 installed a new dryer and energy system you see
12 that resulted in a 10 per cent drop in our yield,
13 the biggest drop in our history as a result of
14 that project. So there is a good benefit from
15 that as well.

16 The remainder of these years here,
17 basically, it took us a few years to figure out
18 the material balance and the requirements for
19 winter operating and such. So, essentially what
20 that project has got us down to now is around
21 here. We may have improved a marginal amount
22 without the project, but nowhere near the .65 of a
23 cord right now it takes to make 1,000 square feet
24 of OSB. In the saw mill industry they may call
25 that recovery, some industries call it

1 utilization, but we call it yield in OSB.

2 MR. WARKENTIN: Overall, it is a 16
3 per cent improvement over that time period.

4 MR. HAMBLEY: The other thing that we
5 do, heat energy system and single pass dryers
6 allows us overall to reduce total facility
7 emissions. This is the total facility emissions
8 in tonnes over the course of, since 2002. Total
9 facility emissions is the lighter blue line, and
10 the purple line is due to our wood waste
11 incinerator that we operated because we had to
12 deal with, as I mentioned earlier, a very large
13 pile of excess wood waste that we can not use in
14 our process. So once the new dryer and heat
15 energy system came on line, and we became more
16 closed looped, we used pretty much all of our bark
17 and excess wood as fuel. And the incinerator was
18 just a short term solution to eliminating our
19 large bark pile. And as we used the incinerator
20 less and less, our total facility emissions came
21 back down to the level where this is more
22 indicative of the way we operate. So as we used
23 that incinerator less and less, and our total
24 facility emission dropped as well.

25 MR. WARKENTIN: The important context

1 here, as you know, there have been criticisms or
2 claims that LP was one of the largest polluters in
3 the province, and that's what this graph is
4 intended to show. This is the rest of the story.
5 The emissions that are used to suggest that LP was
6 the largest emitter came primarily from the
7 incinerator in that 2002 to 2004 time period. We
8 are well off the chart once that incinerator was
9 removed.

10 MR. HAMBLEY: Some of the other things
11 we do, reducing emissions at the source, and I've
12 talked about resins, we use the lowest
13 formaldehyde resins available. We use a
14 combination of phenol formaldehyde and MDI resin
15 in our process. Some facilities are 100 percent
16 phenol formaldehyde, which indicates that their
17 formaldehyde emissions may be a little bit higher
18 than ours. We use a combination of phenol
19 formaldehyde and MDI. So we are minimizing resin
20 related formaldehyde emissions from the press.

21 The use of MDI also allows higher
22 moistures and, therefore, lower drying
23 temperatures to further minimize wood related
24 emissions from the dryers. As we mentioned
25 earlier, lower temperature drying, less VOCs

1 emitted at the source.

2 Next slide. So just to summarize,
3 once again, LP Swan Valley continues to optimize
4 the process to reduce emissions at the source.

5 And I believe that is the end of my
6 time. Thank you very much for your attention.
7 Thank you very much to the audience for listening.
8 And I will turn it over now to Kevin Betcher for
9 some further discussion on the socio-economic
10 impacts and some closing comments.

11 MR. BETCHER: Thanks, Al. There has
12 been some criticism out in the community that LP
13 is pleading poverty, and that is the reason that
14 we are pursuing this. You know, the fact of the
15 matter is, you know, we started down this road in
16 2001. That is eight years ago. The capital
17 project which culminated in our application took
18 place in 2003. We commissioned the equipment in
19 '03. I mean, that's five, six years ago. So to
20 say that we are pleading poverty, you know, is not
21 entirely accurate at all. There is environmental
22 benefits from a greenhouse gas perspective to the
23 rate of 12,000 tonnes per year.

24 It also makes good business sense. We
25 are in a market right now that is severely

1 depressed. Our facility needs to be as
2 competitive and sustainable as possible within our
3 geographic area in which we operate and to the
4 areas that we ship our product to. I guess the
5 collapse of the market, like we've, I think both
6 Kevin and Al alluded to, the collapse of the
7 market has accelerated this proposal no doubt. We
8 need to maintain our competitive advantage within
9 the industry, but we have to be competitive within
10 LP plants as well. We are somewhat localized
11 here, we need to put our best foot forward in how
12 we are running our mill.

13 Some of the economic contribution we
14 feel is important to portray, 550 direct jobs as a
15 result of LP. That includes the logging and
16 hauling operations. So significant impact in the
17 valley.

18 \$35 million, we've touched on that
19 earlier as well, \$35 million contributed locally.
20 The breakdown on that is 12 million in employee
21 payroll.

22 In 2007, when we produced normal
23 volumes and had normal logging operations, we paid
24 out \$21 million in logging contracts. And we pay
25 out roughly 11 and a half million dollars per year

1 to maintain the facility. If you add those three
2 together, that's more than 35 million. I would
3 like to make note that 11 and a half million does
4 not all stay in the valley, there are vendors and
5 suppliers that we deal with that are not obviously
6 in the valley, but a significant portion of that
7 11 and a half million stays right in Swan River
8 Valley.

9 Another important note, you know, we
10 spent \$26 million in 2004 on our dryer energy
11 system and new dryers, and there is a portion of
12 that that stays in the valley as well. People get
13 hired on for term positions with contractors to do
14 some of the construction work, that would be an
15 example. So there is numerous advantages to LP
16 being in the valley.

17 First and foremost, we have definitely
18 shown today that RTOs are not required to meet
19 ambient air standards. In relation to that, there
20 is a significant competitive disadvantage to LP
21 Swan Valley; 3.2 million annual operating and
22 maintenance expenses, that includes gas,
23 maintenance, electricity; \$10 million capital
24 replacement within the next few years, those units
25 have a life span of anywhere from ten to fifteen

1 years, depending on how you have taken care of the
2 equipment. I may be a little bit biased on this,
3 but our group, including Mr. Boychuk sitting in
4 the audience, has done an excellent job in
5 maintaining that equipment over the years.
6 However, we are in a position within the next few
7 years that we will be looking to replace those
8 RTOs. I don't want to sound like a broken record,
9 but the only forest products mill in Canada with
10 RTOs.

11 Another important and ironic bullet is
12 we will monetarily be penalized for running RTOs
13 as carbon tax systems, such as they have in
14 British Columbia, carbon markets and/or greenhouse
15 gas regulations are developed. So, essentially we
16 are running this equipment, we could be penalized
17 monetarily for what they are doing.

18 Next slide, please? I think to show
19 the significance and the impact of the downturn of
20 the industry, I think it has been devastating,
21 Canadian Forest Service data shows that March 31,
22 2009, 386 forest product mills were indefinitely
23 closed, permanently closed or curtailed. That's
24 over 44,000 jobs, which is huge for Canada.

25 Since 2006, the volume of North

1 American OSB has dropped by 50 per cent. I have a
2 chart that will show that shortly, but
3 essentially, normally 26 billion square feet is
4 North American production for OSB; '09 is
5 estimated to be around 13.7, so roughly a 50 per
6 cent reduction. In Canada, 12 of the 25 Canadian
7 OSB mills are permanently or indefinitely closed,
8 so 50 per cent, and many others are in a reduced
9 capacity.

10 So what is the impact on this? As I
11 indicated previously, normal OSB production
12 volume, this is in billion square feet, around 25
13 or 26 billion. The downturn started at the end of
14 2006, with 2007 starting to see the reduction, and
15 you can see '09 being significantly less than
16 industry norms.

17 So how does this affect Canada? We
18 have talked a lot about the OSB mills in Canada.
19 What this map now indicates is the blue dots on
20 here, there is three of them, indicate LP
21 facilities currently operational. The gray
22 circles indicate competitor mills that are
23 currently operational, and they may have
24 curtailments from time to time like we are
25 experiencing right now at our facility. The

1 interesting note is the red dots. Those are the
2 ones that are either permanently or indefinitely
3 curtailed. So pretty sad state for the industry.

4 MR. WAIT: I have a question. Of the
5 ones that are closed, how many of those are
6 Louisiana Pacific facilities?

7 MR. BETCHER: There is two. Yes, we
8 have two facilities in Quebec that are here and
9 here, that are closed.

10 MR. WAIT: Is that good, Kevin?

11 MR. BETCHER: On that topic, yeah.

12 So what is the economic impact on the
13 valley and what have we been doing? We had 17
14 employees laid off in 2008. Those people are
15 still currently laid off and, to be honest, they
16 have found other jobs or left the area. During
17 curtailment months such as we are experiencing
18 right now, 50 per cent of the remaining employees
19 are laid off. Our turnover rate used to be one of
20 the best in LP, at anywhere from 2 to 4 per cent
21 historically. It has ballooned to 20 per cent.
22 Maintaining tradespeople has been a challenge. I
23 don't think anybody in the audience will disagree
24 with that fact, that there is canola crushing
25 facilities being built in Yorkton which is

1 100 miles away, there is recruitments in the paper
2 constantly for millwrights, electricians. So we
3 have had our challenges there, as well as oil and
4 gas. You know, it has been recessed a little bit
5 but there still is employment in oil and gas in
6 Alberta.

7 Many production operators have also
8 left to seek other opportunities because of the
9 uncertainty. 15 logging contractors have ceased
10 operations since this downturn, that's about 25
11 per cent. We are only one of three operating LP
12 OSBs left in Canada, down from five.

13 The mill has been adjusting as good as
14 we have been able to, considering what we have
15 been going through. In 2008 we saw 40 per cent of
16 our volume reduced at our facility. In '09, it is
17 a staggering number here to date at 70 per cent.
18 So the industry, a lot of the locations are 50
19 overall, we are 70 per cent. We have reduced the
20 logging rate to the contractors by 5 per cent, so
21 they have been sharing the pain. Normally we
22 break up the wood volume in the spring, in March,
23 around 120 to 130,000 cords. This year we broke
24 up at 62,000 cords, just to manage cash flow. And
25 we have taken on aggressive cost saving

1 initiatives, including lean manufacturing in 2008,
2 which reduced our operating costs by over
3 \$7 million.

4 So eliminating RTOs is only one aspect
5 of how we are looking at the viability of the
6 operation. And it is our duty, as managers,
7 employees, and residents to try and put our best
8 foot forward for the community.

9 MR. WARKENTIN: I want to reemphasize
10 here that, as Kevin said, and Al and I have said,
11 but we can't say it enough, we have been looking
12 at this project for eight years already, before
13 the market downturn. When the times were at their
14 best, this project was being considered and
15 initiated through the capital investment.
16 Certainly the current market downturn has
17 accelerated this, accelerated the application, but
18 we were collecting information to support this
19 application many, many years before the downturn
20 started. We can't say that enough.

21 So the criticism this is only due to
22 trying to save costs now, that's absolutely false.

23 MR. BETCHER: This slide speaks for
24 itself, I don't know that we have too much
25 dialogue around this. We feel approval of our

1 application is warranted, plain and simple. I
2 believe the data we have shown today indicates
3 that. Our submission to Manitoba Conservation
4 lays out that as well.

5 Next slide, please? Not only do the
6 proposed amendments reflect industry standards,
7 they also maintain protection of community health
8 and the environment, provide numerous
9 environmental benefits in the form of NOx,
10 nitrogen oxide emissions and greenhouse gas
11 reductions, also equalizes the playing field
12 within the Canadian OSB industry, and contributes
13 to the sustainability of LP in the Swan River
14 Valley.

15 MR. WARKENTIN: Let me just add here,
16 when we say equal the playing field, that's the
17 competitiveness. We have said it a number of
18 times already, we will still have as much or more
19 control equipment than any other OSB manufacturing
20 plant in Canada. And we will still have more
21 standards and more compliance conditions on this
22 mill than any other OSB plant in Canada, in terms
23 of emission limits, in terms of stack test
24 emission requirements, in terms of ambient
25 monitoring requirements. Nobody, nobody has that

1 level of compliance that they are required to
2 comply with. So the playing field is clearly
3 competitive in this thing.

4 MR. BETCHER: Mr. Chairman,
5 commissioners, members of the panel, ladies and
6 gentlemen of the audience, this concludes our
7 presentation today. We have proven that removal
8 of the RTOs will still ensure protection of human
9 health and the environment. There is an
10 environmental benefit as well with greenhouse gas
11 reductions. The application is based on sound
12 science and fact, and has been through numerous
13 levels of review within Manitoba Conservation
14 Technical Advisory Committee, including Manitoba
15 Health, with no concerns identified.

16 The fact remains that we are the only
17 mill in Canada, of the 25, or if you want to say
18 12 that are still up and operational, that have
19 RTOs. And we request and are looking for fairness
20 and equality with other jurisdictions in Canada.
21 And we hope that the CEC supports our application
22 in its recommendation to the Honourable Minister
23 Struthers. That's all we have. Thank you for
24 your time.

25 THE CHAIRMAN: Thank you, gentleman.

1 I would just ask if you could remain seated at the
2 front while I ask the panel if they have any
3 further questions of you?

4 Patricia, do you want to start?

5 MS. MacKAY: Yes. RTOs, you've
6 indicated, are you think inappropriate in your
7 industry at this point. Do you have any
8 information or an opinion on whether the RTO
9 technology is basically finished now because of
10 greenhouse gas reduction, but will it continue to
11 be an important instrument in other industries?

12 MR. WARKENTIN: Well, as we alluded to
13 the U.S. EPA in particular, that's where really
14 this is driven from, the U.S. EPA has in the past
15 looked at trying to go the risk assessment route,
16 more of a Canadian system. The way their current
17 regulatory environment is structured, it does not
18 allow them to do that. They have a very narrow
19 minded focus. But they have certainly indicated
20 that that is -- their next step in the review of
21 the regulations is to look at being able to
22 consider -- they cannot currently consider those
23 trade-offs -- being able to consider those
24 trade-offs. And there is evidence of some plants
25 in the States that we are aware of that have been

1 successful in arguing that RTOs, in specific
2 circumstances, and that is maybe a very important
3 point. The U.S. EPA is a very cookie cutter
4 approach. Everybody has to comply with this
5 regulation, it doesn't matter if they are in the
6 middle of the city or out in the middle of the
7 field. The Canadian system allows for those site
8 specific conditions to be considered. The U.S.
9 EPA has indicated in their approval of these other
10 mills that they are willing to consider this
11 moving forward. So this will be the end of RTOs,
12 I would suggest.

13 MR. HAMBLEY: I guess if I could add
14 one thing. Certainly, that seems to be the case
15 in what we are hearing from Environment Canada,
16 but if at some point down the road they are going
17 to mandate certain reduction in VOCs, then LP
18 would comply with that because it would be the
19 industry standard. Right now, I mean, we have
20 demonstrated we don't need RTOs and we suspect
21 that every other facility, OSB facility in Canada
22 has done the same, and that's why they don't have
23 them.

24 THE CHAIRMAN: Ken?

25 MR. WAIT: Sure. Commissioner Wait

1 again. My question relates to emission reduction.
2 As a result of our tour of the plant yesterday,
3 that's why this question came up -- and I
4 certainly appreciated the tour. This relates to
5 the planting of the trees in front of the plant.
6 Was that there for noise reduction, or perhaps
7 increased dispersion of any ground level
8 emissions, or was it strictly esthetics, or you
9 hadn't thought about it?

10 MR. BETCHER: Esthetics.

11 MR. HAMBLEY: Yes, esthetics, but I
12 think it is important to note too that there has
13 been quite a bit of research in the last eight
14 years or so with hybrid poplar. And in behind
15 where our old incinerator was, or is, there is a
16 pretty impressive stand of hybrid poplar that is
17 probably only five years old, but it is well over
18 nine, ten feet tall already.

19 I think Environment Canada and another
20 group was looking at that from the aspect of, if
21 there was going to be less and less Crown land,
22 that maybe this was an alternative for some of the
23 local landowners to grow trees that possibly we
24 can harvest. So I don't know if that adds to
25 anything, but just to suggest there is some

1 research going on in looking at hybrid poplar.

2 MR. WAIT: Again, depending where the
3 nearest residence is, it would appear to be
4 helping any reductions that you might get from
5 that.

6 THE CHAIRMAN: Any other questions,
7 Ken?

8 MR. WAIT: Not yet.

9 THE CHAIRMAN: Ken, do you have any
10 questions?

11 MR. GIBBONS: I do. I know I'm
12 speaking for myself, I'm still a little unclear
13 about the upgrades in 2004, in terms of the
14 emissions that emanate as a result of that new
15 process, as to how that process improved over the
16 emissions that were in place prior to that new
17 system coming in, in 2004. In other words, it
18 seems to me that one of the arguments being made
19 is that with the new dryer system that was
20 installed in 2004, there is less of a need for the
21 RTOs than was the case. Is that the fair way of
22 putting it?

23 MR. WARKENTIN: I think it is fair to
24 say the RTOs, as demonstrated in the environmental
25 impact assessment, were never required. They were

1 installed to address that uncertainty brought up
2 at the time. Now, with the benefit of 13 years of
3 data to support some of the things that were said
4 in the 1994 EIA, with that information to support,
5 the improvement in technology in 2004 and, you
6 know, the specific aspects are the lower dryer
7 temperatures, which generate the lower VOCs in the
8 first place, the recirculation of the flu gas, the
9 dryer exhaust gas back to the energy system dryer
10 inlet, which keeps that temperature low, and the
11 gentler drying technology itself, all are
12 demonstrated to reduce emissions at the source,
13 eliminating the need for the additional equipment,
14 which wasn't required in the first place, further
15 reducing the need for that.

16 MR. GIBBONS: That's what I'm trying
17 to get at here. There has been at least a
18 significant incremental improvement, from your
19 perspective?

20 MR. WARKENTIN: Yes. Then if you look
21 at all of the improvements that Al touched on
22 during his presentation with respect to the yield,
23 which means we are processing less wood per unit
24 of production, the types and uses of resin, those
25 are all the best in industry application of

1 technology to reduce emissions at the source, that
2 evolved in either part of the design of the Swan
3 Valley OSB to begin with 15 years ago, or have
4 been implemented or adapted, or adopted over the
5 years.

6 MR. GIBBONS: Thank you.

7 THE CHAIRMAN: Any other questions,
8 Ken? Thank you. I sort of have a follow-up
9 question from Ken's question. If you will indulge
10 me here, I should make some comments in general.
11 Reviewing your application for amendments to the
12 licence, one of the things I felt was somewhat
13 missing is really more details on how that change
14 in 2004 of your dryer system has reduced overall
15 VOC emissions, and in particular those VOCs of
16 particular mention like formaldehyde and benzene?
17 It wasn't in your proposal, and I felt it would
18 help everyone in general, especially our panel
19 here, to look at those specific changes that were
20 made in the dryer operation that reduced these
21 sorts of emissions. That wasn't included. So it
22 has been very helpful in terms of your
23 presentation this morning regarding the work that
24 you've done over the last eight years in your
25 process, and the changes of recirculating the air,

1 operating at lower temperatures, and single pass
2 dryers, and all of those things. But again in
3 terms of what I think is very pertinent to the
4 community is the concern over VOC emissions, and I
5 am wondering why, you know, you are not showing
6 exactly how much change has occurred between how
7 you previously operated and your new system in
8 terms of how much reduction was made. We
9 understand the issue with the RTOs, that a case
10 was made back at the original licensing hearings
11 that there really wasn't a need for the RTOs, that
12 in fact with the wet electrostatic precipitators,
13 the WESPs, you were meeting ambient air quality
14 criteria.

15 I guess in terms of changing the
16 comments or formatting it into a question, I guess
17 I'm trying to understand now, in your proposed
18 amendments, you are asking the province to
19 increase your emission limits on your wet
20 electrostatic precipitators, yet you have said you
21 changed your process that reduces them, but we
22 don't know how much reduction is involved. Can
23 you sort of explain that? It is a tough question,
24 I realize.

25 MR. WARKENTIN: The emission limits,

1 well, there is two parts to it. The increase in
2 emission limits is necessary. The RTOs, as Al has
3 alluded to, do provide control of VOCs. So the
4 emissions proposed in the application will be
5 higher than the uncontrolled for certain
6 parameters, and of course will be lower when we
7 are reducing NOx and greenhouse gas emissions.
8 But in terms of license parameters, primarily you
9 will see that increase. So the increase in
10 emission limits is necessary to allow us to shut
11 down the RTOs.

12 The limits that are currently proposed
13 in comparison to the previous limits, again, this
14 goes back to the application, or the lack of
15 information available in 1995 when those original
16 limits were derived, no site specific information,
17 using engineering estimates, very limited industry
18 wide data available at the time, whereas after
19 many years of operation we now have site specific
20 information, operational experience to build on,
21 industry information to build on. And what is
22 also very important is the application of new
23 stack test methods, which wouldn't have been in
24 existence 15 years ago, to properly measure and
25 characterize those emissions.

1 So we really stood back when we
2 started this and said, if we were going to build a
3 new mill in Manitoba today, what limits, based on
4 existing technology, most current technology,
5 based on the most current tests, based on the most
6 current information available to us, and we were
7 fortunate to have that real site specific data
8 available to us, what limits would we need to
9 apply for given all of those? So that's the
10 number we came up with, whereas in the past we had
11 to make numerous assumptions to come up with those
12 numbers, we now have the real data, we have the
13 benefit of real data which I would argue probably
14 nobody has had before in such a significant
15 amendment process.

16 THE CHAIRMAN: So in essence, the
17 original limits were not -- given the fact they
18 weren't based on real data and your assumptions
19 made, those assumptions were likely not very
20 accurate and, therefore, the limits that were in
21 the original licence weren't properly appropriate?

22 MR. WARKENTIN: That's correct.

23 THE CHAIRMAN: Thank you.

24 MR. GIBBONS: Just a brief follow-up.
25 Would it be fair to say then even if you didn't

1 change the technology in 2004, and even if you
2 didn't request the removal of the RTOs, that you
3 would have had to come forward with a request to
4 change the licence because the original standards
5 were not set properly? Properly is not perhaps
6 the right word, but were not set in the way it was
7 realistic?

8 MR. WARKENTIN: Yes. And those are
9 part of the discussions that we had had with
10 Manitoba Conservation since 2001, trying to
11 address some of those issues directly with them.

12 THE CHAIRMAN: Are there any other
13 questions from the panel?

14 Thank you very much for your
15 presentation. Thank you, gentlemen, and thank you
16 for those attending this morning, and we will
17 reconvene this afternoon at 1:00 o'clock.

18 (Hearing recessed at 11:38 p.m. and
19 reconvened at 1:00 p.m.)

20 THE CHAIRMAN: Good afternoon. Thank
21 you for your indulgence. As usual we have our
22 technical glitches which we have to sort out. I
23 would like to reconvene our public meeting.

24 This afternoon we are going to begin
25 with the Concerned Citizens of the Valley, with

1 Mr. Ken Sigurdson, Mr. Dan Soprovich, and Ms. Iris
2 Jonsson. If you could please come forward to the
3 presenters' table and we will begin by taking the
4 oath.

5

6 (Ken Sigurdson: Sworn)

7 (Dan Soprovich: Sworn)

8 (Iris Jonsson: Sworn)

9 THE CHAIRMAN: I gather the order is
10 Mr. Sigurdson first, I believe. So please
11 proceed.

12 MR. SIGURDSON: Thank you very much.
13 My name is Kenneth Sigurdson, I farm with my wife
14 and three sons in the RM of Swan River. I'm a
15 former chair of the Concerned Citizens of the
16 Valley from '94/'95, and I'm making this
17 presentation on behalf of the Concerned Citizens
18 of the Valley.

19 To get a perspective on what we think
20 is important here today, we would like to show you
21 a CBC documentary called "Ill Winds" that was done
22 in 1993 or '94. And it gives a good background of
23 some of the communities problems with Louisiana
24 Pacific and OSB plants in Dawson Creek and in
25 Colorado. So with that, if we could start that?

1 MR. KLEIN: Mr. Chair, my name is
2 Brian Klein. I am counsel for Louisiana Pacific,
3 and I would like to make an objection to
4 presentation of this material before you.

5 THE CHAIRMAN: Thank you, Mr. Klein.
6 I would ask the indulgence of both of the
7 presenters and those in attendance, if we could
8 have a few minutes to confer with our legal
9 counsel? Could you please state the objection?

10 MR. KLEIN: My objection, sir, is that
11 this film relates to events which occurred at
12 another plant operated by LP approximately 15
13 years ago. It is not relevant or germane to the
14 application which is before you today, and which
15 you are reviewing. Its contents, I think it is
16 fair to say, will be inflammatory to these
17 proceedings and should not be part of any record
18 or any material put before you.

19 In my view it is essentially hearsay.
20 And I think that there is no doubt that LP has had
21 an exemplary relationship with its regulator in
22 the province. I think it has the respect of the
23 Province and the Department of Conservation.
24 There is no suggestion whatsoever in any of these
25 proceedings of bad faith, or malfeasance, or

1 misconduct in any way on the part of LP, in the
2 valley, or to the people of the valley, or to the
3 people of Manitoba. And I don't think that
4 anything is served by this material becoming
5 formally part of anything placed before you. And
6 I strongly object to it being part of the
7 proceedings here today. Thank you, sir.

8 THE CHAIRMAN: Thank you, Mr. Klein.
9 Your objection is duly noted, and as I've
10 mentioned, I would like to take a very short
11 recess of a few minutes to confer with our legal
12 counsel on this.

13 MR. WESTOB: Seeing this gentleman was
14 allowed to speak, I would like to speak as well.

15 THE CHAIRMAN: Could you come to the
16 mic? Please state your name for the record?

17 MR. WESTOB: Murray Westob, I'm a
18 citizen of the valley here, and I'm concerned that
19 I have come to this hearing to hear what is being
20 said by all those concerned. And to have someone
21 suggest that someone, a group, whoever it is,
22 should not be allowed to speak I think is totally
23 opposed to the intention of this hearing. So I
24 would strongly urge the panel to allow this panel,
25 and any others to say whatever they wish, unless

1 it is totally defamatory, but we don't know that
2 until we hear it. Thank you, sir.

3 THE CHAIRMAN: Thank you. Again, I
4 would ask your indulgence, we won't take long to
5 deliberate this, but I would like to consult with
6 our legal counsel. So give us about five minutes?

7 (Proceedings recessed)

8 THE CHAIRMAN: Thank you everyone for
9 your indulgence. Again, we apologize but we had
10 to take a few minutes to make sure we concur on
11 our decision here.

12 Mr. Klein, your objection is duly
13 noted, but considering this is a public meeting
14 and we ourselves, the panel have not considered --
15 we have not seen the content of this, and this is
16 not a legal proceeding, we are merely here to do
17 an investigation and find out as much information
18 as possible, we feel it is important that we
19 review any information that's brought forward to
20 us.

21 Again, I would reiterate, not only to
22 Louisiana Pacific, but to the presenters in this
23 room, as well as the general public, if anyone has
24 comments to make on what is being presented in
25 terms of providing their perspective or

1 clarification, you have until September the 1st to
2 provide that to us. And by all means, the panel
3 will consider any further information or comments
4 on things that have been presented as part of our
5 overall investigation.

6 So with that, Mr. Sigurdson, I would
7 suggest that you proceed.

8 MR. SIGURDSON: Okay. I introduced
9 myself, so we will watch the video and then I will
10 proceed with the rest of my presentation.

11 THE CHAIRMAN: Thank you.

12 (Video "Ill winds" playing)

13 MR. SIGURDSON: The following video is
14 just a lot of repeat of the previous one, and it
15 has an EPA official on there stating that a plant
16 of a certain size requires RTO technology. That
17 would be the only useful information.

18 The citizens, after our success in
19 getting RTOs in Swan River, the citizens of Dawson
20 Creek attempted that as well and were
21 unsuccessful, as did the citizens in Fort St. John
22 where LP made a larger, just recently built a
23 plant.

24 Just a follow-up to Olathe, Colorado,
25 the plant mentioned in the Ill Winds video. In

1 1998, LP was assessed a \$37 million fine, the
2 largest fine ever levied by the EPA. In addition
3 to court awarded damages -- I'm just going to go
4 into my presentation -- damages, compensation to
5 the neighbours, including the Orjiases. On
6 May 27, 1998, the company pleaded guilty to 18
7 felony counts and agreed to pay \$31.5 penalty for
8 fraud and a \$5.5 million fine for willfully
9 conspiring to violate the Clean Air Act, among
10 other crimes.

11 Two Louisiana Pacific employees, one
12 of them actually served jail time. This was the
13 largest fine under the Clean Air Act violations in
14 the 28 year history of the Act, and there is a
15 link provided to that article.

16 In 1994 the EPA testified at the CEC
17 hearings, which lasted several weeks and included
18 testimony from the EPA. LP had received the
19 largest fine ever levied by the EPA, and the EPA
20 had reached a consent agreement with LP to install
21 RTOs at 11 of its 13 U.S. plants. So that was a
22 court decision in '94. The '98 one was after.

23 The hearing revealed that this plant
24 would emit 920 tonnes of VOCs, 2002 tonnes of
25 carbon monoxide, 620 tonnes of nitrous oxide, and

1 484 tonnes of particulate matter. And that
2 nitrous oxide is before the RTOs were added.

3 The EPA describes the threshold that
4 they would require pollution controls. It should
5 be noted that the current LP proposal still emits
6 over 700 tonnes of VOCs. And I have no way of
7 knowing from the information from LP how much
8 carbon monoxide, how much NOx, and so on.

9 Then there is a statement by the
10 lawyer at '94, the EPA, and they talk about the
11 thresholds for pollution control. She says, in
12 other words, if one pollutant is expected to be
13 emitted, if it exceeds 250 tonnes per year, we
14 would require the facility to control emissions of
15 other criteria pollutants if their emissions rates
16 exceeded the following numbers. For carbon
17 monoxide, the threshold is 100 tonnes a year. For
18 nitrogen oxide, the threshold number is 40 tonnes
19 a year, for particulate matter, the threshold
20 level is 25 tonnes per year for particulate matter
21 or 15 tonnes for the smaller particulate matter,
22 as defined in the United States regulations. It
23 depends on the size of the pieces of particulate.
24 And for volatile organic compounds, the threshold
25 is 40 tonnes per year.

1 The EPA stated that a plant of this
2 size in the U.S. would require the best available
3 technology, RTOs or RCOs, to control VOCs and
4 carbon monoxide. The EPA has stated that they
5 would require low NOx burners to control NOx
6 emissions.

7 Prior to the hearings and the
8 conclusion, Louisiana Pacific made a commitment to
9 install RTOs at the Swan River plant. RTOs then
10 became a recommendation of the CEC, and
11 regenerative thermal oxidizers were written into
12 the licence. The CEC also recommended that low
13 NOx burners also be used to burn off the NOx
14 emissions. This recommendation, low NOx burners,
15 was never followed.

16 And I have a question: How can LP use
17 reductions in greenhouse gas, NOx, which is mainly
18 the NOx emission, as a reason for turning off the
19 pollution control when they have done nothing to
20 control NOx emissions?

21 At the 1994 CEC hearings, LP made a
22 commitment to the community to install RTOs. At
23 the same time, opposition leader Gary Doer and
24 local MLA, Rosann Wowchuk, spoke up in favour of
25 the RTOs technology being installed. Why is this

1 commitment to the community being reneged on?

2 I was part of the Citizens Advisory
3 Committee formed shortly after Louisiana Pacific
4 was in operations. One of the discussions I
5 initiated was the location of the air monitoring
6 stations, one located west of the plant near the
7 garbage dump and another located north of the
8 plant. It was agreed that these stations would
9 provide little useful information and would need
10 to be moved. This was never done.

11 LP's air monitoring stations are good
12 talking points but have no legitimate value in air
13 monitoring.

14 Dr. Kay Wotten of Manitoba Health
15 resigned from the committee, and her reasons were
16 given to the committee. The CEC should request
17 her letter of resignation from the Citizens
18 Advisory Committee.

19 Enforcement of the licence was a
20 difficult task. For example, I phoned Mr. Doug
21 Peterson, the Manitoba Environment rep on the
22 advisory committee, to request information on why
23 the government allowed LP to shut down the RTOs
24 for long periods of time. And they had some
25 difficulties in the initial start-up with them

1 freezing and so on. Peterson's response to me was
2 that RTOs were never a requirement of Manitoba
3 Conservation, so it didn't matter.

4 With the Manitoba Government
5 supporting LP's dumping of wood waste around the
6 community, we realized that little could be
7 achieved by continuing to sit on this committee.

8 The LP plan to increase pollution at
9 the Swan River mill: Louisiana Pacific has
10 received interim approval and has applied for
11 permanent shutdown of their regenerative thermal
12 oxidizer at their Swan River operation. The
13 reason, LP wants to reduce the operating costs by
14 removing the pollution control equipment. This
15 will increase hazardous air pollution on the
16 community.

17 A document prepared for the CEC called
18 "Background to the Swan Valley OSB Plant
19 Investigation" compares the Environment Act
20 licence number 1900 S4 to Louisiana Pacific's
21 proposed limits. Under the proposed volatile
22 organic compounds from the dryers, increase from
23 1.1 grams a second to 20.96 grams a second, an
24 increase of 19 fold; phenol emissions from .5
25 grams a second to 5 grams a second, a ten fold

1 increase; formaldehyde emissions increase from .85
2 grams a second to 4 grams a second, a 47 fold
3 increase; while benzene emissions increased from
4 .008 grams a second to .172 grams a second, a 21
5 fold increase.

6 Under LP's proposal press limit VOCs
7 increase from .28 a second to 2.78 a second, an
8 increase of ten fold. Formaldehyde emissions
9 increase 14 fold; benzene emissions, 65 fold;
10 while MDI emissions increased six times from .0141
11 to .089.

12 This document does not list carbon
13 monoxide emissions which were 2002 tonnes annually
14 in 1994, and the proposed decrease in NOx
15 emissions is minimal.

16 The huge increase in pollution is
17 shocking for our community.

18 Hazardous air pollution: RTOs remove
19 over 90 per cent of the volatile organic compounds
20 coming from this OSB plant. The wood dryers,
21 glues and resins, methylene diphenyl diisocyanate
22 and phenol formaldehyde used to make an oriented
23 strandboard produces numerous VOCs. The six most
24 common hazardous air borne pollutants coming off
25 of LP's OSB plants are acetaldehyde, acrolein,

1 formaldehyde, methanol, phenol and
2 propionaldehyde. Three of these VOCs are known
3 carcinogens. These VOCs, even in low quantities,
4 cause health problems, affecting the central
5 nervous system and the respiratory system. That's
6 some of the things the citizens of Dawson Creek
7 were talking about.

8 Manitoba only has guidelines for two
9 of these highly toxic air borne pollutants, phenol
10 and formaldehyde. The U.S. with a Clean
11 Environment Act recognized OSB plants create a
12 huge pollution problem. In 2000, Willamett
13 Industries, another large U.S. OSB producer
14 received a fine and was ordered to install
15 pollution control equipment, RTOs, in 13 of its
16 U.S. plants.

17 At the time, Carol Browner, the EPA
18 administrator, stated cleaning up the emissions
19 from these plants will keep an average of 27,000
20 tonnes of pollution out of the air. That is the
21 equivalent of taking 287,000 cars off the road.
22 287,000 cars is approximately the number of cars
23 in a city the size of Portland.

24 In July of 2004, the EPA issued more
25 stringent rules on U.S. veneer plywood OSB plants.

1 The companies -- U.S. plants continue to improve
2 and upgrade their pollution control equipment in
3 the U.S. And there is a link to that site. And
4 they talk about the rotary dryers and those types
5 of things in their -- they still require control
6 of the pollution.

7 This document lists the pollutants
8 coming off OSB plants. In addition to
9 Acetaldehyde, probably carcinogenic, Acrolein,
10 possible carcinogen, formaldehyde, probable
11 carcinogen, methanol, phenol, propionaldehyde,
12 other pollutants are emitted. There are arsenic,
13 a human carcinogen; beryllium, a probable human
14 carcinogen; chromium, a human carcinogen;
15 manganese; nickel, a human carcinogen; lead, a
16 possible human carcinogen; MDI, associated with
17 asthma and respiratory illness; and benzene, a
18 human carcinogen.

19 In 2006, the EPA introduced an even
20 more stringent rule for OSB plants. There is no
21 doubt that if the Swan River OSB plant was located
22 in the U.S., it would have to control VOCs with
23 RTOs, RCOs, or biofiltration.

24 A quick Google search indicates that
25 the Swan River Louisiana Pacific OSB plant is the

1 only OSB plant in North America turning off the
2 pollution controls.

3 And at the back you will see attached
4 information on LP plants that I have gathered just
5 from my search on the internet.

6 Benzene: In September of 2007, LP
7 requested that Manitoba Conservation approve a
8 change from RTOs to RCOs, regenerative catalytic
9 oxidizers. In a letter of response, Tracey Braun,
10 director of Manitoba Conservation, stated in part,
11 and that letter is attached:

12 "Based on the fact that benzene is a
13 known human carcinogen, it is the
14 requirement of Manitoba Conservation
15 that benzene emissions must be reduced
16 or eliminated wherever possible.

17 Therefore, we are not prepared to
18 increase the benzene emission limit."

19 This brings up some very serious questions. Why
20 did Tracey Braun deny LP an increase in emission
21 limits of benzene in September of 2007? Also, why
22 did Tracey Braun then in December of 2008 grant an
23 interim licence to allow LP to suspend operation
24 of the RTOs that control 90 per cent of the VOCs,
25 including benzene? What happened to the Manitoba

1 Conservation plans to reduce or eliminate benzene?
2 Why did LP abandon its plan to replace RTOs with
3 the newer RCOs in 2007?

4 According to the document, "Background
5 of the Swan Valley OSB Plant Investigation,"
6 benzene emissions will increase 21 times from the
7 dryers and 65 times from the presses. The removal
8 of the RTOs will result in an additional 35 tonnes
9 of benzene being emitted annually by this plant.

10 Manitoba is part of the Canada wide
11 standard on benzene, and there is a link to that
12 site. And I took some quotes from the document.

13 "Benzene is a simple organic compound
14 that is a volatile, clear, flammable,
15 colourless liquid at room temperatures
16 with an aromatic odour. In all media
17 it is not persistent or
18 bioaccumulative. Benzene has been
19 classified as a carcinogenic to
20 humans. It is a non-threshold
21 toxicant, a substance for which there
22 is considered to be some probability
23 of harm for critical effect at any
24 level of exposure. The primary long
25 term air quality management goal for

1 threshold toxicants like benzene is to
2 reduce exposure to the extent possible
3 and practicable, thereby reducing the
4 risk of the adverse effects of this
5 pollutant to human health."

6 Then another from the same document, I will just
7 read the bold print. It says:

8 "For new and expanding facilities;
9 minimize benzene emissions by the
10 application of the best available
11 pollution prevention and control
12 techniques."

13 And then there is two more links to that site.

14 So Manitoba is clearly part of a
15 Canada wide program to reduce and eliminate
16 benzene. Braun's rejection letter and the quote
17 from the Canada wide standard on benzene that
18 states benzene as a non-threshold toxicant, a
19 substance for which there is considered to be some
20 probability of harm from critical effects at any
21 level of exposure, and applying the best available
22 pollution prevention and control techniques. This
23 compares to the self-serving analysis and
24 statement by Vicki Tatum of NCASI who states:

25 "The proposed RTO elimination does not

1 represent any unacceptable risk of
2 increased cancer associated with
3 benzene exposure."

4 Formaldehyde and acrolein: The assessment done
5 for LP of formaldehyde for acute health effects,
6 the maximum predicted one hour concentration is
7 56.9 -- I don't know the term -- per metre of air.
8 And that disregards other jurisdictions such as
9 ATSDR, which is 49. And you will see there is
10 others as well.

11 Document 5, page 3, paragraph 1,
12 refers to the U.S. EPA reference concentrations of
13 .5 ug per metre cubed of acrolein. This is
14 incorrect. The correct IRIS RFC for acrolein is
15 .02 per metre cubed, which is 25 fold lower than
16 the .5 per metre suggested by NCASI.

17 The criticism of the Ontario standard
18 by NCASI is similarly unfounded.

19 The U.S. EPA derived its inhalation
20 reference concentration of .02 per metre based on
21 nasal cavity respiratory effects in rats. And
22 that was, and there is -- it is again from the
23 Ontario air standards for acrolein in 2005.

24 Synergic effects of aldehydes: The
25 models emissions for acrolein are .02 per metre,

1 as the EPA reference, the EPA reference
2 guidelines. LP's assessment for formaldehydes
3 emission, 56.9 per metre, for acute health risks
4 exceed the maximum predicted one hour air
5 concentration of other acceptable guidelines.

6 Acrolein exists together with
7 aldehydes such as acetaldehyde, formaldehyde, and
8 has shown to have synergistic effects with these
9 aldehydes. And that again is from the Ontario air
10 standards for acrolein. And there is the link to
11 that site.

12 So we have the mixture of these three
13 aldehydes are found to be more severe and more
14 extensive in inducing respiratory olfactory
15 problem in rats, compared with the individual
16 chemicals alone. So we are getting this cocktail
17 of chemical, and what LP is doing is attempting to
18 do a standard on each one.

19 The three aldehydes mentioned in the
20 Ontario document are all emitted in large
21 quantities. Acrolein and formaldehyde at the
22 maximum levels. Certainly, the synergistic effect
23 with these aldehydes will have an impact on human
24 health of our community.

25 Particulate matter: The model does

1 not make any calculation for background levels of
2 any substance, and particulate matter is one of
3 these. Particulate matter of 2.5 microns is a
4 known health hazard. Since there is a large
5 amount of diesel truck traffic around the mill,
6 then we can assume that most of these background
7 diesel emissions are of the 2.5 microns or less.
8 Why was this not calculated, and why wasn't it
9 calculated for other substances?

10 Louisiana Pacific threatens the
11 community they are going to shut down. They
12 holler jobs, jobs, jobs. I just wonder how
13 realistic is that threat? Thanks to the
14 benevolence of government and so on, our LP
15 operation is the lowest cost wood supply in North
16 America. Globally, LP has sales of \$1.7 billion
17 in 2007. While LP may shut down because of the
18 housing crisis in the U.S., it is highly unlikely
19 they will shut down based on the costs of
20 operating pollution control equipment in the Swan
21 River operation.

22 LP currently is shut down, I
23 understand, and have been since mid June. So this
24 threat has little validity.

25 LP's website brags about the RTOs at

1 the Swan River plant. The site has a picture of
2 LP's Derek Boychuk. Boychuk says he has a
3 different name for the mill's regenerative thermal
4 oxidizers:

5 "They are kind of my babies..."

6 he said:

7 "RTOs burn volatile organic chemicals,
8 an important part of the mill's air
9 quality system."

10 It appears that Louisiana Pacific
11 doesn't view air quality as an important issue in
12 Canada. I should just add that RTOs, while they
13 are not in the OSB industry in Canada, they are,
14 for example, at the Suncor Ethanol plant in
15 Sarnia, Ontario, where they control volatile
16 organic compounds.

17 Finally, the CEC hearing process of
18 1994 lasted 10 days and included testimony,
19 debate, analysis, and recommendations. There is
20 no need to reinvent the wheel here, nothing has
21 changed, and the LP plant remains a major emitter
22 of thousands of tonnes of hazardous air pollution.
23 For the CEC to have any credibility going forward,
24 they must reject this ill conceived plan by LP to
25 enhance their profit by turning off the pollution

1 controls.

2 And that's respectfully submitted by
3 Ken Sigurdson, Concerned Citizens of the Valley.
4 And I will answer any questions that you may have.

5 THE CHAIRMAN: Thank you
6 Mr. Sigurdson. Does the panel have any questions
7 of Mr. Sigurdson?

8 MS. MacKAY: You mentioned that you
9 had -- you felt that the sampling stations would
10 provide little useful information and would need
11 to be moved. Can you tell me specifically what
12 your concerns were about the locations of those
13 and where you thought they should be moved to?

14 MR. SIGURDSON: Well, we had the
15 discussion, as I remember it, when we were on the
16 Citizens Advisory Committee. And the discussion
17 at the time was that the one was west of the
18 plant. The prevailing winds are generally
19 westerly and northwest, west, sometimes southwest.
20 The two monitoring stations, one is south --
21 pretty well directly north of the plant and the
22 other one is pretty well directly west of the
23 plant. So these were not really the best
24 locations to pick up the prevailing air movement.
25 And I think there will be further comments on that

1 in our further presentations here.

2 And at that time it was agreed by
3 everyone on that committee that, yes, something
4 needed to be done. And the discussion was that
5 the power locations were convenient at these
6 locations. That was a strange, strange answer.

7 MS. MacKAY: Another question in the
8 same area of your report, you indicate that the
9 Manitoba, excuse me, with the Manitoba Government
10 supporting LP's dumping wood waste around the
11 community, what are you referring to there,
12 please?

13 MR. SIGURDSON: At the initial stages
14 of operations, because of the tumbler dryers, as I
15 understand it, there was a great deal of wood
16 waste, and it built up on LP's site. It was
17 trucked around and distributed around the
18 community on riverbanks, in sloughs, in pasture
19 land, in wetlands. And the story came out from
20 everybody, Louisiana Pacific and the Manitoba
21 Environment, this is a natural substance, there is
22 no problem with it being out there. But wood and
23 wood waste left in large quantities produce
24 leachate which is harmful to aquatic life. And,
25 you know, that was just the kind of thing, that

1 was kind of the last thing that we participated in
2 while we were on the Citizens Advisory Committee.
3 We saw very little value in continuing.

4 MS. MacKAY: But that issue is no
5 longer an issue; is that correct?

6 MR. SIGURDSON: There is still some
7 wood waste that gets trucked around, but not to
8 the degree, because of the conveyor type dryer
9 system, rather than the tumble dryers, as I
10 understand it.

11 MS. MacKAY: Thank you.

12 MR. GIBBONS: If I can follow up on
13 that last question. There is a program that LP is
14 engaged in where the ashes are used to bring up pH
15 levels of certain land in the area. You are not
16 referring to that are you? You are talking about
17 something similar?

18 MR. SIGURDSON: No, I was talking
19 about the wood waste that was a problem in the
20 '90's. It was the reject chips and so on.

21 MR. GIBBONS: No, but you said there
22 is still some of this going on now?

23 MR. SIGURDSON: Yeah. I think, I
24 wouldn't be an expert on that, but I believe there
25 is still a bit, but not to the degree that there

1 was.

2 Now they are laughing, so there
3 obviously isn't.

4 MR. GIBBONS: As I understand it, that
5 is part of a program -- is that a reference to the
6 ash that's being used? You mentioned that there
7 was the program to deal with pH that --

8 MR. HAMBLEY: No, this isn't in
9 reference to that. There is a little bit of
10 material from our log yard that will go to the
11 Swan River landfill or the Minitonas landfill, and
12 they will use that as cover material.

13 MR. GIBBONS: Thank you.

14 THE CHAIRMAN: Just one other
15 question, Mr. Sigurdson, from my own perspective
16 here. You specifically mention in your
17 presentation about LP's use of the reduction of
18 greenhouse gases, and in particular talk about
19 NOx, as justification for turning off the RTOs.
20 And you also further state that they have done
21 nothing to control NOx emissions. I'm wondering
22 if you are aware of the changes in their dryer
23 process that they made since 2004? I just wonder
24 if you have any comments on that?

25 MR. SIGURDSON: It is very difficult

1 to know what the emissions of various substances
2 are, because they don't provide us with those
3 numbers of how many tonnes of NOx, how many tonnes
4 of carbon monoxide and so on. But a CEC
5 recommendation back in 1994 was to install low NOx
6 burners, because of the amount of nitrous oxide
7 being emitted by this plant. And I still believe
8 it is huge. And they could control those,
9 according to the EPA at that time, with low NOx
10 burners. And that's just my point.

11 THE CHAIRMAN: Thank you. I guess we
12 will proceed with the next presenter, Mr. Dan
13 Soprovich. Please proceed.

14 MR. SOPROVICH: Thank you very much,
15 members of the Clean Environment Commission, panel
16 and citizens. I just want to note here, in my
17 submission I don't have all of the details on my
18 references, I never got to that point, but I will
19 submit those at a later date.

20 There is a saying to the effect that
21 those who ignore history are doomed to repeat past
22 mistakes. For this reason it is important in my
23 view to briefly review the history of LP and it's
24 consultants relative to predictions of
25 unsustainability of the forest. This is so

1 because history has shown that LP and its
2 consultants were very wrong, and because I
3 observed some important similarities between their
4 assessments for this proposal and the company's
5 documents relative to the force of sustainability.

6 Consider the following relative to the
7 predictions of LP and its consultants on forest
8 sustainability.

9 THE CHAIRMAN: Excuse me,
10 Mr. Soprovich, I mentioned this morning that I
11 would not allow discussions of forestry management
12 plans. Essentially this panel has been convened
13 to have input on the air emissions to the facility
14 and its potential impact on human health and the
15 environment. So we are not looking at the
16 sustainability of the forest.

17 MR. SOPROVICH: I understand that.
18 The purpose of addressing this is to
19 demonstrate -- the counsel for the proponent here
20 indicated that he didn't want to talk about past
21 history, he said things were different in the Swan
22 River Valley. This demonstrates that is not quite
23 the case.

24 THE CHAIRMAN: That's fine. If you
25 could contain your comments to air emissions

1 rather than forest management plans, I would
2 appreciate that.

3 MR. SOPROVICH: Okay. Can I discuss
4 just an overview of the mistakes that were made in
5 the forest sustainability and that LP and its
6 consultants were very wrong on that?

7 THE CHAIRMAN: I will allow you a
8 brief discussion, but, again, this panel is being
9 paid to look at air emissions.

10 MR. SOPROVICH: Understood, and I want
11 to get through it fairly quickly.

12 THE CHAIRMAN: Okay. Thank you.

13 MR. SOPROVICH: I will talk fast. So
14 let's look at the annual allowable cut for
15 hardwoods for the Duck Mountains, using growth and
16 yield assumptions from LP's 10 year forest
17 management plan. LP's consultant, and it is
18 1995 --

19 THE CHAIRMAN: Excuse me, you can't
20 read really fast, because we cannot take it down.
21 What I'm suggesting is, if you have a two or three
22 line statement, I will allow that, but this panel
23 is convened specifically to look at the air
24 emissions from the facility.

25 MR. SOPROVICH: If we look at -- what

1 happened was LP and its consultants, in 1995, I
2 did an assessment looking at the sustainability of
3 the forest.

4 In 2004, the Manitoba Government,
5 Manitoba Forestry Branch published a study which
6 looked at things like the sustainability and
7 growth and yield. We saw very radical changes
8 since then. So, for example, when we look at the
9 annual cut of hardwoods from the Duck Mountains,
10 LP and its consultants said that for every year
11 over the next hundred years, they could take
12 6,000 cubic metres per year.

13 Nine years later the Province said
14 around 350,000. That's a 71 per cent difference.
15 That's a huge error in environmental assessment.

16 If we look at what is called growth
17 and yield assumptions, how fast the forest grows,
18 and the yield of fiber from that forest, these are
19 called growth and yield assumptions. Again, it
20 was LP and their consultants that came up with
21 some growth and yield assumptions. They had
22 growth and yield assumptions for aspen, black
23 poplar and birch, which are hardwoods, 340 cubic
24 metres a year, or 340 cubic metres a hectare at
25 age 60, the forest age 60. That's this particular

1 graph up here.

2 Looking at aspen, when we look at the
3 government figures, 2004, we see basically this.
4 Very, very different. They overestimated the
5 aspen yield by 2.07 times. When we look at the
6 other hardwoods, again they assume 340 cubic
7 metres per hectare at age 60. They overestimated
8 those about 2.5 to three times. Okay.

9 So we will leave it at that. We see
10 some very, very serious errors in their
11 assessment. And that's LP and their consultants
12 collectively.

13 Now, important points, and these are
14 relevant to the present discussion, the important
15 points respecting these results are as follows:
16 The growth and yield data were collected by a
17 Winnipeg consultant with the help of three recent
18 graduates from the Swan Valley Regional Secondary
19 School Environmental Studies Program. These data
20 were subsequently turned over to a consultant from
21 B.C. to develop the yield tables. These yield
22 assumptions were then used by a third consultant,
23 who conducted the sustainability analysis. Of
24 particular relevance, there was no stand-alone
25 report by either of the first two consultants,

1 reports that might have addressed sampling
2 problems and issues of data interpretation. All
3 information was contained within LP's long term
4 plan under the authorship of the company. While
5 there was disclosure that the yield tables had
6 been developed by the B.C. consultant, there was
7 no discussion with respect to matters like obvious
8 bias in sample locations, for example.

9 History, by virtue of the 2004
10 Forestry Branch Report, has now demonstrated that
11 LP and its consultants were terribly wrong. And
12 many local residents, local loggers,
13 environmentalists, and independent technical
14 people challenged the sustainable harvest and
15 growth and yield. History has demonstrated that
16 they were right.

17 The fourth point, the CEC panel and
18 government of the day accepted the figures of LP
19 and its consultants, and history has demonstrated
20 that they were wrong to do so.

21 Now, let's consider the present LP.
22 First and foremost, it is critical to understand
23 that independence is a fundamental element of
24 environmental assessment. However, independence
25 is often not an absolute, but rather a matter of

1 degree. While processes can be implemented to
2 help foster independence, independence in
3 environmental assessment often comes down to the
4 personal integrity, competence, and
5 professionalism of the consultant.

6 Like the growth and yield assumptions
7 for the forest, the air dispersion modeling is an
8 essential building block to understand the
9 implications of the development on human health
10 and the environment.

11 I will focus my attention in this
12 presentation on the first group of dispersion
13 modeling data provided on November 18th of 2008,
14 given that the November 18 proposal submitted by
15 LP was deficient and that the outstanding
16 dispersion modeling data were only provided to
17 some of our desktops 12 days ago, I have not had
18 the opportunity to examine that material in any
19 kind of detail.

20 The first thing that struck me was
21 that the dispersion modeling report was submitted
22 under the authorship of Louisiana Pacific. There
23 was no mention of any consultant having done the
24 work for the company. One can only assume that
25 the company had done its own dispersion modeling.

1 Hardly independent to say the least.

2 Subsequent communication with Manitoba
3 Conservation, Mr. Ryan Coulter, revealed that LP
4 indicated that Cordilleran had completed the air
5 dispersion modeling for them. There is no
6 document in the proposal that references the
7 company. So what we now had was some air
8 dispersion modeling by a company being reported on
9 under LP's name, as opposed to stand-alone report
10 from the consultant who actually conducted the
11 modeling. This is most reminiscent of how LP
12 handles its consultants on the now repudiated
13 growth and yield assumptions.

14 Further communication with Mr. Coulter
15 indicated that Cordilleran was no longer in
16 existence as it had been absorbed by another
17 company. A limited Google search on Cordilleran
18 suggests little work by this company in the public
19 domain.

20 THE CHAIRMAN: Mr. Soprovich, sorry to
21 interrupt, could you speak just a little bit
22 slower? We have a recorder and she is having a
23 difficult time keeping up with you.

24 MR. SIGURDSON: Sorry, I apologize.
25 Specifically, the first two search

1 pages revealed only one record that was a study,
2 and this related to drilling mud and not air
3 dispersion. This lack of study is surprising, as
4 most searches of this nature would reveal a number
5 of studies. Indeed, when I searched on Sentar
6 Consultants Limited, the company that conducted
7 LP's 1994 assessment, a number of studies came up
8 immediately. Further examination of the scope of
9 work and experience of Cordilleran would be
10 prudent, in my view. This is essentially a
11 recommendation.

12 A stand-alone report by the consultant
13 might have addressed critical factors that impact
14 on the accuracy and precision of the model
15 predictions. For example, factors like bias,
16 input parameters of poor precision, limitations of
17 input data, critical and sensitive model
18 assumptions, limitations of model and other
19 matters central to evaluation of the output.

20 As a specific example, the fact that
21 only one year of local wind data was used to model
22 dispersion, and therefore the analysis ignores
23 annual variation in the spatial distribution of
24 contaminant levels, things that an independent
25 consultant would often discuss in a report.

1 Where a consultant reports under its
2 own name, it must answer directly to challenges.
3 Under the circumstances of the LP proposal, we can
4 only wonder if and how LP has managed and massaged
5 any such information, including aspects related to
6 the consultant's discussion and interpretation.
7 This is not good environmental assessment
8 practice, as the consultant, the who one will most
9 be able to address questions, is shielded from
10 reporting.

11 Under the present circumstances,
12 transparency, accountability and disclosure are
13 compromised. Good environmental assessment
14 practice, designed to address the issue of
15 independence, dictates the need for stand-alone
16 reports such that consultants are answerable. For
17 an example of good practice, I provided a link for
18 a wind farm in B.C., and that information is on
19 there, and you can see that these are stand-alone
20 reports on each of these aspects.

21 If the air dispersion modeling had
22 been conducted by a Manitoba engineer or an
23 out-of-province engineer registered to work in
24 Manitoba, we might expect to see the work stamped
25 by the professional engineer. And I cite the

1 personal communication with Mr. Michael Gregoire
2 from the Association of Professional Engineers and
3 Geologists of Manitoba. This was not the case
4 with the LP submission.

5 I want to briefly touch on LP's
6 assessment of the impact of the various pollutants
7 on human health as conducted by an organization
8 known as NCASI. This organization purports to be
9 an independent non-profit research institute,
10 however, it is funded almost entirely by the
11 forestry industry, including Louisiana Pacific
12 Corporation in Canada. And I provide a link
13 there.

14 Further to this we observe that LP
15 CEO, Mr. Rick Frost, is vice chairman of this
16 organization. Clearly this is less than a
17 completely arm's length relationship. In effect,
18 the organization that conducted LP's health
19 assessment works on behalf of LP, and reports to
20 LP's CEO. We would be far more comfortable with a
21 health assessment if it had been conducted by an
22 organization that did not owe its existence to
23 Louisiana Pacific; for example, respecting cancer
24 causing toxins, an organization like the Canadian
25 Cancer Society Research Institute.

1 The Manitoba Public Interest Law
2 Centre has been supporting efforts of Concerned
3 Citizens of the Valley, including support towards
4 the funding of three experts who are presently
5 examining the LP proposal. While these experts
6 will not complete these reports on their findings
7 until around the September 1st CEC submission
8 deadline, I expect the findings, the NCASI
9 findings, will be challenged on a number of
10 fronts.

11 In summary, we know that past
12 environmental assessment by the company and its
13 consultants have been grossly flawed. We further
14 observed poor environmental assessment reporting
15 practice, and similarities between the assessment
16 information in the present proposal and the past
17 forest sustainability assessment.

18 Under these conditions, I urge you to
19 be sceptical of the reports and analysis presented
20 by LP and its consultant. I also urge you to very
21 seriously consider information that comes forward
22 from other sources, including the local knowledge
23 that will be reported to you. I ask you to
24 critically seek out alternative information.
25 After all, the ability to decommission the RTOs

1 will enhance LP's balance sheet by many millions
2 of dollars.

3 Now we will talk a bit on the ambient
4 air quality monitoring. I hope I can answer some
5 of your questions that you posed earlier.

6 Ken Sigurdson earlier noted the poor
7 suitability of the two locations for LP's ambient
8 air quality monitoring program, and Concerned
9 Citizens indication of this fact when the program
10 began. Further to this, if one looks at the
11 original assessment conducted for LP by Sentar
12 Consultants, you will observe that the locations
13 were not appropriate on the basis of four years of
14 wind data from Swan River. So you can see that
15 with these particular wind data, the longest lines
16 represent where the wind is blowing the most from.
17 So the southwest line indicates that there is more
18 wind blowing from that southwest because it is
19 long. Ken had noted that one of the air ambient
20 monitoring stations was located to the north of
21 the mill. You will see that the line to the north
22 of the mill and to the south, they are very small
23 lines. So that indicates that very little wind
24 blows from either the north or the south.

25 So, again, this demonstrates, when you

1 look -- looking at the west one as well, we have
2 much more wind blowing from the west, because the
3 line is longer, relatively little wind blowing
4 from the south, or from the east, sorry. So,
5 again, these were located upwind of the mill
6 primarily. And again, this is data right from
7 LP's assessment by Sentar Consultants in 1994.

8 I can also tell you I looked at wind
9 data from the Canadian Wind Energy Atlas, and
10 these findings are consistent with that particular
11 data. And that was specifically for the Minitonas
12 plant site.

13 THE CHAIRMAN: Just a point of
14 clarification, Mr. Soprovich, the wind rows you
15 are showing there is from the Swan River airport?

16 MR. SOPROVICH: That is the Swan River
17 Airport, that's correct. That was from the Sentar
18 publication.

19 THE CHAIRMAN: And more recent
20 modeling has been based on, to my understanding,
21 the actual meteorological station that they have
22 established right at the site?

23 MR. SOPROVICH: Yeah. And I
24 understand that, but I guess what I am saying also
25 is that I looked at the wind energy atlas, which

1 is a modeled estimator, and it is consistent with
2 this. And that was more the Minitonas site. So I
3 don't think you will see a lot of difference.

4 THE CHAIRMAN: Thank you.

5 MR. SOPROVICH: Consider the following
6 respecting the program: The data in LP's own
7 proposal demonstrate that the monitoring stations
8 were improperly located. And I'm going to show
9 you the one hour maximum formaldehyde
10 iso-concentration graph. And this comes from LP's
11 proposal that they have got before us right now.
12 You will see stations LP1 and LP2, LP1 being to
13 the north, and LP2 to the west. So you can see
14 that these are located in areas of relatively low
15 concentration, relatively low predicted
16 concentration. These monitoring stations were put
17 in the wrong place, well outside the areas of
18 greatest concentration, as opposed to in those
19 places where the predicted concentrations were
20 much greater and within which people reside.
21 Plotting the residences of nearby people on these
22 maps would have been demonstrative of this.

23 In a March 13, 2009 email,
24 Conservation Department employee, Mr. Dave Bezak,
25 referring to LP's monitoring program for MDI,

1 Phenol, hydrogen, cyanide and formaldehyde stated:

2 "It is our view that the current
3 sample collection frequency for the
4 above substances is just too
5 infrequent to possibly ever capture an
6 air sample that might be impacted by
7 facility emissions and, therefore,
8 reflective of that impact."

9 We note that Mr. Bezak failed to address the
10 problems of location of the sites.

11 So we observed that for two primary
12 reasons, LP's ambient air quality monitoring
13 program has been little more than a public
14 relations exercise. Further to this, given that
15 government regulators were clearly made aware of
16 the location problem when the program was
17 initiated, it is apparent that the regulators have
18 functioned as enablers in this charade.

19 I want to talk about adaptive
20 management, the concept of adaptive management in
21 the air quality program. Adaptive management is a
22 concept that promotes the application of new and
23 current knowledge to adapt management practices as
24 a means to achieve expected outcomes. Monitoring
25 is absolutely fundamental to adaptive management

1 in the context of resource management.

2 LP's 1994 air dispersion modeling used
3 various assumptions and parameters to make
4 predictions about toxin concentrations in the
5 vicinity of the mill. But model predictions are
6 only as good as the accuracy and precision of the
7 available information, and the ability of the
8 person conducting the modeling. Consequently, it
9 is fundamental to test predictions to see if they
10 prove to be true, and to adapt as necessary on the
11 basis of those findings. Given the observations
12 relative to locations and frequency of monitoring,
13 it seems reasonable to conclude that LP's ambient
14 air quality monitoring program was designed to not
15 be able to test its modeling predictions
16 respecting those who might be affected the
17 greatest by its submissions. In other words, it
18 appears that the program was designed so that the
19 resulting data would not allow for the testing of
20 model predictions and for adaptive management to
21 occur.

22 One wonders why the company would
23 design such a flawed program. However, economic
24 implications and enhanced profitability certainly
25 come to mind.

1 One further wonders why our government
2 was missing in action on this program and whose
3 interest they have been representing over this
4 period.

5 I want to talk somewhat on greenhouse
6 gases. We are concerned about greenhouse gases,
7 and I believe it is appropriate to examine
8 greenhouse gases implications. We note, however,
9 that greenhouse gases emissions must be looked at
10 independent of the emission of toxins, because the
11 environmental and health impacts of greenhouse
12 gases emissions versus toxins like formaldehyde
13 and benzene are completely different.

14 We further note that greenhouse gas
15 emissions from the RTOs likely represent a small
16 portion of total GHG emissions from the plant, and
17 that many options exist to reduce or mitigate such
18 greenhouse gases emissions.

19 Let's talk about the biofilter option.
20 Technology has been developed which used bacteria
21 to break down the contaminants. This technology
22 can reduce greenhouse gas emissions by 85 per cent
23 or more. I cite a April 28th, 2000 letter from a
24 fellow from Bio-reaction Industries to Dr. P.
25 Miller, who is a member of the LP stakeholder

1 advisory committee. We understand that LP uses
2 this technology in at least one of its U.S.
3 plants.

4 It would be valuable to investigate
5 the implications of pollution abatement equipment
6 that increases the control of nitrous oxides. As
7 you may well be aware, nitrous oxides are very, I
8 think they are 21 times more potent than carbon
9 dioxide. So control of nitrous oxides might
10 result in an overall net reduction of greenhouse
11 gases with the RTOs in operation.

12 Now, those of us who follow the issue
13 of greenhouse gases in this province understand
14 that Premier Doer has been promoting northern
15 development, and the export of that electricity to
16 other provinces and U.S. states as a means to
17 offset greenhouse gases emissions. For example,
18 to replace electricity generated from coal or
19 natural gas. It is anticipated that polluting
20 companies will offset the greenhouse gases
21 emissions by purchasing what is known as offset
22 credits. Premier Doer is expecting that
23 Manitoba's hydroelectric produced electricity will
24 attract a premium price in this marketing
25 environment.

1 Although reduction as possible is
2 likely the best solution to the greenhouse gas
3 issue, it logically follows that if Premier Doer
4 and his government accepts the legitimacy of using
5 Manitoba generated electricity to offset
6 emissions, then this approach is also appropriate
7 for Manitoba.

8 Indeed, Conservation Minister
9 Struthers recently announced a program to promote
10 tree planting as a means of offsetting Manitoba
11 greenhouse gas emissions. Offsets are a fact of
12 life in many companies. The municipal governments
13 in Canada have committed to becoming carbon
14 neutral, with offset credits being one of their
15 plans. And offsets are becoming part of a new way
16 of life. For example, in May of last year I flew
17 to Calgary and back with Air Canada, and was able
18 to offset my greenhouse gas emissions.

19 Now, if the company was really
20 concerned about greenhouse gases emissions, there
21 is many ways by which they could offset RTO and
22 other greenhouse gas emissions. It could have
23 begun this process years ago. Some examples are
24 as follows: International Institute of
25 Sustainable Development, David Runnalls, in an

1 article in the Winnipeg Free Press on May 3rd of
2 this year noted that a cost of carbon dioxide
3 offset on the Chicago climate exchange, of which
4 Manitoba Hydro is a founding member, at the end of
5 April was less than \$2 per tonne.

6 LP's Mr. Allan Hambley, in his
7 November 18th, 2008 letter to Ms. Tracey Braun,
8 Manitoba Conservation Director of Environmental
9 Assessment and Licensing, indicating that
10 decommissioning of RTOs could result in a
11 greenhouse gas emission reduction of approximately
12 11,830 tonnes, metric tonnes, of carbon dioxide
13 equivalents per year. Now, if LP chose to
14 purchase offsets from the Chicago climate
15 exchange, using the end of April prices, it would
16 cost the company approximately \$26,000 U.S. This
17 is an inconsequential cost to LP in the big
18 picture.

19 If LP invested in three 1.5 megawatt
20 wind turbines at the proposed St. Joseph wind farm
21 south of Winnipeg, it could offset its greenhouse
22 gas emissions and generate a profit.

23 LP could invest in carbon reduction
24 programs in the Swan Valley and Parkland region.
25 For example, it could support retrofitting for

1 energy efficiency and geothermal installations to
2 schools, curling rinks, skating arenas, municipal
3 buildings and churches that are presently using
4 carbon based heating. There is a multitude of
5 local investments that LP could make to offset its
6 greenhouse gas emissions, including planting trees
7 on marginal farmland as done by ALPAC in Alberta.
8 The ways and means are only hampered by the
9 commitment of the company, or the lack thereof.

10 I'm going to talk a bit on
11 formaldehyde and VOCs. Some months ago I had the
12 opportunity to meet and talk with to Mr. Ryan
13 Coulter, who is a conservation department employee
14 working on LP's application. I noted that the
15 materials provided to that date did not provide
16 any indication of the increase in the amount of
17 contaminants that LP was proposing to release to
18 the environment. And Mr. Coulter agreed, and in a
19 May 5th email to myself indicated, "what you have
20 to do is compare the proposed emissions from LP's
21 proposal to the limits contained in licence number
22 1900 S4. This will tell you the maximum
23 percentage emission increase according to the
24 proposal. Keep in mind, of course, that the
25 government is awaiting additional information from

1 LP."

2 The comparison of the emission limits
3 was subsequently posted on the CEC website as a
4 two-page document entitled "Background to the Swan
5 Valley OSB Plant Investigation." This document
6 indicates the following: The previous licence
7 allowed for a maximum emission of .165 grams per
8 second of formaldehyde from dryers and presses.
9 The new limits in LP's proposal would increase the
10 maximum emission from these two sources to
11 5.1 grams per second.

12 Now, if we assume maximum emissions
13 from the mill operating 24 hours per day, seven
14 days per week, and 365 days per year, the previous
15 licence allowed for the maximum emission of 5.7
16 tonnes of formaldehyde per year, while the current
17 proposal allows for 176.9 tonnes. This is a huge
18 increase in the amount of formaldehyde to
19 introduce to the environment.

20 Per the North American Oriented
21 Strandboard Industry Review, and this was a SENES
22 report that was commissioned for your panel, the
23 U.S. Environmental Protection Act standards for
24 hazardous air pollution, or HAPs, apply to any
25 facility estimated to emit 25 tonnes of total HAPs

1 or 10 tonnes per year of a single HAP.
2 Formaldehyde is one of the six HAPs as defined by
3 the EPA. The initial limit of 176.9 tonnes of
4 formaldehyde, as proposed by LP for its mill, far
5 exceeds the 10 tonne limit for U.S. emission of
6 formaldehyde, or for the U.S. Clean Air Act. It
7 would therefore require RTOs or equivalent
8 technology to reduce the emission of formaldehyde.

9 Per the SENES report again, HAPs
10 typically must be reduced by 90 per cent, or at
11 least 90 per cent. It is noteworthy that for the
12 LP proposal, even if emissions for formaldehyde
13 were reduced by 90 per cent, there would still be
14 17.7 tonnes per year, and still exceed the EPA 10
15 tonne standard.

16 I want to talk briefly on some health
17 issues, ALS and other health issues. I would like
18 to briefly address the possibility that the mill
19 has already adversely impacted on the health of
20 residents in the area. My focus will be on ALS,
21 also known Lou Gehrig's disease.

22 A recent long-term study that followed
23 almost a million U.S. residents over 15 years
24 observed elevated rates of mortality from ALS in
25 relation to exposure to formaldehyde. Concerned

1 Citizens is aware of at least three people who
2 live within ten miles of the mill and died of ALS
3 since the mill began to operate. It is reasonable
4 to assume that LP can operate at full capacity for
5 about 13 years, from 1996 to 2008. This
6 represents an ALS mortality rate of at least .23
7 people per year for the area, which is divided by
8 13.

9 Now per Statistics Canada, the Town of
10 Minitonas has a population, had a population of
11 538 in 2001 and 497 in 2006. While the RM of
12 Minitonas had a population of 1,152 and 1,105
13 respectively in the two years. Given these data,
14 it is reasonable to assume an average population
15 of about 1,000 people living within ten miles of
16 the LP mill over this period. And using this
17 number, the ALS mortality rate is calculated at,
18 at least 23.1 per hundred thousand people per
19 year. The Canadian mortality rate for ALS,
20 approximately two per hundred thousand per year.
21 Therefore, the observed rate for the area around
22 the mill is at least more than 11 times the
23 Canadian average, and I stress at least because
24 there may be more than the three we know about.

25 We also note that all three of those

1 who died from ALS lived in close proximity to the
2 Duck Mountain. We further note that local people
3 indicate that particularly in the winter, the
4 smoke from the mill tends to concentrate up along
5 the edge of the mountain.

6 Other health issues: We are also
7 concerned that human health may have been
8 compromised in other ways by emissions since the
9 arrival of the mill. For example, the letters to
10 Manitoba Conservation in relation to this proposal
11 reveal the concern of a young mother who lives
12 near the mill and has written: "How do I know
13 that these emissions aren't the cause of what
14 happened to my first child?" So there already
15 exists empirical evidence and anecdotal
16 information to suggest that the operation of the
17 LP mill may have already impacted on the health of
18 the residents.

19 We do not know how frequently the RTOs
20 were operating, but there may have been extensive
21 periods of time when they were not employed. As
22 residents of the area, we hear stories from local
23 people, what can be referred to as local
24 knowledge. And I have heard in the past from a
25 good source -- just yesterday one of our members

1 heard from a reputable source that someone who
2 worked in the mill in the past indicated that the
3 RTOs were often turned off at night. Now, I have
4 heard those stories before. And I have heard in
5 the past from good sources in the mill of cutting
6 corners when it came to the environment.

7 Some might suggest this kind of
8 information might not be verifiable and should not
9 be considered. But I ask you to remember that
10 local people, including loggers in the forest and
11 others, knew that LP so-called sustainable harvest
12 level for hardwoods was substantially inflated.
13 And local knowledge was correct in that case, and
14 we strongly urge you to seriously consider this
15 information.

16 We also know that in the 1980s and
17 early 1990s, employees at the LP mill in Olathe,
18 Colorado, were tampering with monitoring devices
19 and falsifying emission reports. The culture of
20 the LP parent office may or may not have changed
21 since then, however this history is consistent
22 with the local knowledge previously cited.

23 Now on the basis of the above
24 information the following representations are made
25 with respect to health. There is a need for a

1 comprehensive epidemiological study that examines
2 the hypothesis that contaminant related health
3 impacts have occurred since the LP mill began to
4 operate. This study must be commissioned by
5 government and involve representatives of all
6 stakeholders.

7 We note that in Flin Flon there are
8 plans to test residents' blood, urine, hair and
9 toenails in relation to emissions from the stacks
10 from the smelter there.

11 To complement the epidemiological
12 study, there is a need for independent analysis of
13 compliance since the mill began to operate. Such
14 a study would examine the performance of the RTOs
15 and could look at independent means to verify how
16 often they were operational and how well they were
17 operating, for example, looking at natural gas
18 consumption as a surrogate. We have an expert in
19 mind that we can recommend.

20 Are we environmental ostriches? In
21 Manitoba, the LP uses a formaldehyde compound with
22 MDI to glue the wood chips together. Elsewhere
23 the world is moving away from using bonding agents
24 containing formaldehyde because of the health
25 effects. Consider the following: California Air

1 Resources Board legislation that limits
2 formaldehyde emissions came into effect on
3 January 1, 2009. This legislation is likely to
4 promote similar national standards in the U.S. in
5 much the same way as we have seen California's
6 standards on vehicle emissions push the envelope
7 elsewhere, including in Canada.

8 In 2005, Columbia Forest Products in
9 the U.S. converted from urea formaldehyde
10 adhesives to a soy based adhesive, soy based
11 system. I cite Orr 2007. This particular company
12 began moving in this direction as early as 2002.
13 And other soy based adhesives have been developed.

14 At the recent international convention
15 of the Forest Products Society, papers included
16 "Formaldehyde free" and "Ultra low formaldehyde
17 emitting adhesives for bonding," "Preparation of
18 particle board with a new formaldehyde free soy
19 based adhesive," and "Protein hybrid adhesive;
20 adhesive performance, formulation, latitude and
21 chemical structure." So this is something that's
22 being actively pursued at the front of technology.

23 Life is a complex of choices. In this
24 case, one can be like an ostrich with its head
25 stuck in the sand and continue to pollute using

1 old methods, or one can be progressive and limit
2 the amount of toxic pollution using current
3 technology.

4 We suggest that the CEC panel examine
5 the feasibility of the various alternatives to the
6 formaldehyde/MDI mix, and make recommendations on
7 that aspect of the LP development. We believe
8 that as a province and society we should be
9 striving to reduce the emission of toxins to our
10 planet where we can.

11 Some months ago Mr. Richard Cloutier
12 from CJOB came out to the Swan Valley to do a
13 story on the LP proposal. We took Mr. Cloutier on
14 a tour on the roads around the mill during the
15 morning when it was operating. And what we saw
16 was a purple haze at ground level, adjacent to the
17 LP mill, and for some miles around the mill. This
18 is, of course, after Manitoba Conservation allowed
19 LP to stop using the RTOs on a temporary basis.
20 Should LP be allowed to permanently operate in the
21 absence of RTOs or equivalent technology, I expect
22 that we will continue to observe purple haze under
23 the level of contamination in the conditions they
24 were going on.

25 What we observed on that morning was a

1 situation where those people living in close
2 proximity to the mill were having to breathe that,
3 for lack of a descriptor, crap. I want each of
4 you on the panel to think about that. I want you
5 to put yourselves in the shoes of these citizens,
6 in the shoes of the young mother, and think about
7 how you would feel if you were forced to breathe
8 that contaminated air.

9 A fellow by the name of Pierre Trudeau
10 once suggested that the measure of a society was
11 how it treated its weakest members. In the
12 context of the LP mill, the measure will be how
13 those who live closest to the mill are treated.

14 Based on what I saw that day, I feel
15 absolutely certain if Premier Doer's family was
16 living adjacent to that mill, and he saw what we
17 saw, those RTOs would have been back in operation
18 in the blink of an eye. My vision of the province
19 is that everyone, from the least of us to the
20 greatest, has the same fundamental human right to
21 breathe clean air. It is up to you on the panel
22 to demonstrate that in our province the little
23 person has the same rights, not just on paper, but
24 in reality, as a political elite.

25 Thank you very much for your time and

1 indulgence.

2 THE CHAIRMAN: Thank you
3 Mr. Soprovich. Are there any questions from the
4 panel?

5 MR. GIBBONS: Just a point of
6 elaboration. Mr. Soprovich, towards the end of
7 your presentation when you talked about
8 complementing epidemiological study, you talked
9 about the idea of having a study that would
10 examine the performance of the RTOs by looking at
11 natural gas consumption as a surrogate. Could you
12 just briefly elaborate on that?

13 MR. SOPROVICH: Well, I guess if you
14 are an expert on something -- let's step back for
15 a minute. We know that monitoring devices can be
16 tampered with and data can be altered, especially
17 if it is an issue of self-reporting. Sometimes if
18 you are an expert you can look in other directions
19 to see if things add up. So, for example, if LP
20 was -- and again, I'm not an expert in this, I'm
21 just throwing this out as a wild possibility, I
22 would suggest. We have to get an expert to look
23 at this. But if LP was saying they were operating
24 their RTOs 24/7, 365, and they weren't using gas,
25 they probably were telling us the truth. So

1 that's a surrogate, in terms of testing the
2 information, testing the premise.

3 MR. GIBBONS: Thank you,
4 Mr. Soprovich.

5 THE CHAIRMAN: I realize we are
6 running over a little bit of time, I realize we
7 have a little bit of a period in between the next
8 presenter, so if I could beg everyone's indulgence
9 here, we will continue on here with Iris Jonsson,
10 and after that we will break for a coffee.

11 MS. JONSSON: I am only going to be
12 about ten minutes.

13 THE CHAIRMAN: Please proceed.

14 MS. JONSSON: Good afternoon panel
15 members and citizens of the valley. The title of
16 my little talk is "Governments Can Create Great
17 Green Societies." I would like to speak this
18 afternoon about the role of government in our
19 lives and in the situation we are addressing today
20 and tomorrow.

21 In the April of 2009 edition of the
22 business magazine "Corporate Knights," spelled
23 with a K, they give an analysis of the first
24 annual green provincial report card, looking at
25 how our provinces rate as green societies. They

1 say a green society enables a great society. Then
2 the editor asks, who has the power to make a great
3 green society? Companies, citizens, the Federal
4 government, and cities all play a role, but no
5 single actor can do more to set the stage than our
6 Provincial Governments, because they are in charge
7 of things that matter, energy, forest and
8 agriculture, and they have significant power over
9 cities. The Corporate Knights agreed that no
10 report card is ever perfectly fair, but they have
11 done their best to transparently collect the most
12 recent outcome-based data that directly relates to
13 our relationships with water, air, land, energy
14 and food, to name a few.

15 They examine toxicity in the air of
16 each province using toxicity units, toxic releases
17 in tonnes multiplied by their toxicity score. In
18 terms of emission intensity in air, I'm quoting,
19 "Manitoba performed abjectly with a high number of
20 toxicity units." Ontario came in with the highest
21 toxic emission of all the provinces. This
22 probably relates to why Ontario is in the process
23 of developing air emissions standards to bring
24 their emissions under control, while Manitoba
25 appears willing to allow an increase in emissions

1 in our province.

2 I would like to shift focus now to the
3 happenings in the 1990s, which have been and will
4 be covered in detail by other members of the
5 group. However, I would like to refer to the
6 involvement of government at that time.

7 When Louisiana Pacific was preparing
8 to set up their mill in this valley, they held
9 public meetings to let us know we had nothing to
10 worry about. They reassured us that they were
11 installing state of the art pollution control
12 equipment called Etube, a wet electrostatic
13 precipitator. I was a member of the Concerned
14 Citizens group that was formed at that time, and
15 several of us contacted the citizens of Dawson
16 Creek in B.C. You may have heard of that place,
17 where there was a LP mill with an E-tube for
18 pollution control. The people there were most
19 unhappy about the mill and complained about an
20 increase in illness, especially amongst the
21 children. They blamed the emissions from the mill
22 stacks for this situation. We were urged by these
23 Dawson Creek citizens to follow the lead of the
24 U.S. and get LP to install the RTO pollution
25 abatement device.

1 Also, our newspapers at the time
2 provided plenty of information about difficulties
3 that the U.S. government was having with Louisiana
4 Pacific failing to comply with the national
5 emission standards of the time.

6 So to protect the health of the people
7 of our valley, we made presentations at the CEC
8 public hearing in 1994. And as a result, LP
9 agreed to install the RTOs. But where was our
10 Provincial Government at that time? Did they do
11 any research into the functioning of an oriented
12 strandboard mill and what to expect when one is
13 built in our neighborhood? Did they investigate
14 the various types of pollution control and the
15 possible results for the community? No, they did
16 not. They only said there would be jobs, but not
17 at what possible expense. They left it up to the
18 Concerned Citizens of the Valley to do their job
19 for them, and we did it.

20 The Louisiana Pacific mill was
21 constructed in our valley in 1996. On January 8,
22 2009, our Provincial Government quietly granted
23 approval for LP to stop using the RTOs on an
24 interim basis. This followed LP pleading their
25 case in November of 2008, that if operating costs

1 could not be reduced, the mill might have to
2 close.

3 And did our Provincial Government let
4 the citizens know that the RTOs might have to be
5 shut down, and later that they actually had been
6 shut down? No. We were kept in the dark for some
7 time. We did not have a corporate knight to
8 remind our Provincial Government that they have
9 the power to make a great green society, because
10 they are in charge of things that matter, energy,
11 forests and agriculture.

12 Near the end of January 2009, we
13 learned from the Star and Times and the Winnipeg
14 Free Press that LP had applied to permanently stop
15 using the RTOs and to increase the amount of
16 toxicants that it will emit to this valley.

17 So I ask, what could our Provincial
18 Government have done when faced with this
19 challenging situation? They have a company which
20 provides jobs to its citizens saying it has
21 financial problems and wishes to save money by
22 removing pollution controls, which will result in
23 a considerable, but unknown increase, in health
24 threatening emissions which will negatively affect
25 the citizens.

1 So the question, what could they have
2 done? They could have done what the concerned
3 citizens have done; become informed. They could
4 have utilized that enormous source of information,
5 the internet, for example. There is an oriented
6 strandboard website, osbguide.com, which describes
7 in detail what happens in an OSB mill. If you
8 remember, one of the reasons LP gave for being
9 able to close down the RTOs was their construction
10 in 2004 of an improved single pass dryer. The OSB
11 website could have told the government that
12 although the new dryers do reduce the
13 environmental impact because of lower dryer
14 temperatures, the device to eliminate the harmful
15 chemicals, RTO or equivalent, are still described
16 as part of the function of a mill which uses
17 improved dryers.

18 Also the website states, and I quote:
19 "Mills are permitted by environmental
20 control authorities to allow only a
21 very small amount of carbon monoxide,
22 nitrous oxides, and volatile organic
23 compounds to be discharged per tonne
24 of product produced."

25 And this is just in reference to the dryer stack,

1 and press stack emissions are dealt with later.

2 I'm hoping that our environmental
3 control authorities can take this into
4 consideration.

5 From the internet government could
6 have learned of LP's international sales manager's
7 recent statement, and I'm quoting:

8 "We have invested a lot during a down
9 market, which shows the commitment of
10 LP to expand internationally."

11 That would have given the government a
12 more balanced view of LP's financial situation.

13 They could have learned about the new better
14 pollution control device, biofiltration, which is
15 as we have heard is 90 per cent less expensive to
16 operate and has a much smaller carbon footprint.

17 There are many other helpful
18 constructive ideas that government could have
19 learned, and you will hear all of this in detail
20 from other members of our Concerned Citizens
21 group.

22 With knowledge comes the ability to
23 speak up and intervene, to feel free to propose
24 alternatives, to work with this powerful company,
25 so that the citizens of Swan River Valley do not

1 have to suffer from either negative health effects
2 or loss of jobs. This is how governments can
3 inspire and create a great green society. Thank
4 you.

5 THE CHAIRMAN: Thank you,
6 Mrs. Jonsson. Are there any questions from the
7 panel for Mrs. Jonsson?

8 The only question I have for you,
9 Mrs. Jonsson, is you mentioned the Ontario air
10 policy in terms of their having more stringent air
11 emission limits. Are you suggesting, or is the
12 thought that Manitoba should have a more specific
13 air policy, and should that follow somewhat to
14 what the Ontario approach is?

15 MS. JONSSON: I'm certainly saying
16 that, yes.

17 THE CHAIRMAN: Okay, thank you very
18 much. If there is no further questions from the
19 panel, I would suggest that we will be reconvening
20 probably just prior to 3:30, when our next
21 presenter is scheduled. So please feel free to
22 help yourself to anything at the back of the room.
23 Thank you very much.

24 MR. SIGURDSON: I have one more
25 comment here on information that I submitted here,

1 it is directly from the LP website, and it says
2 that the conversion from RTOs to RCOs reduces
3 natural gas requirements by at least 50 per cent.
4 So, you know, in those figures that LP was using
5 on greenhouse gases that they were going to
6 reduce, we could say they are going to be reduced
7 by half if they went to RCOs.

8 THE CHAIRMAN: Thank you very much.

9 (Hearing recessed at 3:08 p.m. and
10 reconvened at 3:30 p.m.)

11 THE CHAIRMAN: If I could have
12 everyone's attention, please? Could we please
13 have our seats and grab a coffee and cookie, or
14 whatever, and we will reconvene.

15 We have two more presenters for this
16 afternoon, and I will point out right now that the
17 panel will be reconvening again tonight at
18 7:00 o'clock. We have some more presentations
19 scheduled.

20 So if we could have Mr. Kevin Neely
21 come forward to the presenters table, and
22 Mr. Henry Barkowski. And we will swear you in.
23 Just have a seat and we will give you
24 instructions.

25 (Kevin Neely: Sworn)

1 (Grant Wicks: Sworn)

2 (Henry Barkowski: Sworn)

3 THE CHAIRMAN: Sorry, Mr. Wicks, I
4 missed your name here. Please proceed, I don't
5 know in what order you are speaking in. You have
6 the floor.

7 MR. NEELY: Hi, my name is Kevin
8 Neely. I own a consumer electronics store called
9 Merv's Audiotronic. With me is Grant Wicks. He
10 is the general manager of the largest retailer in
11 Swan River, the Swan Valley Consumers Co-op. We
12 are local business people, and Grant and I are
13 also directors on the Swan River Chamber of
14 Commerce. We are here to represent the Chamber of
15 Commerce with a membership of over 170 businesses
16 and professionals in Swan River and the
17 surrounding area.

18 We would like to thank Chairman Edwin
19 Yee and the panel for letting us speak today. Our
20 present is very short but to the point.

21 I personally sat before a hearing as
22 president of the Swan River Chamber of Commerce
23 some 14 years ago when Louisiana Pacific was in
24 the process of getting started. This was an
25 exciting time, as our local economy and population

1 were going backwards. LP was nothing short of a
2 God send at the time. And as a personal example,
3 I took the plunge to relocate my business to a
4 location of twice the size of my former location.
5 This would have never have happened if LP not come
6 to the valley.

7 LP has been a great boon to our local
8 economy, not only providing badly needed jobs that
9 pay very well, but also creating an incredible
10 spinoff of employment for logging and hauling, as
11 well as new businesses to support their needs. As
12 an example, when LP first came to Swan Valley, we
13 were actually down to one tire shop and now have
14 four. I could cite many more examples of the
15 positive impact LP has had on our valley, but I
16 think it is very obvious. LP also has been an
17 incredible corporate citizen and has contributed
18 to practically every positive cause in the valley.
19 They have been a catalyst of the positive business
20 environment and constant new construction, real
21 estate and business expansion.

22 The business community has been deeply
23 concerned about LP's future survival in the
24 current recession and the lack of demand for their
25 product. That being said, today we are here

1 concerned that they are treated fairly and treated
2 competitively.

3 No other Canadian OSB mill is required
4 to run RTOs. The new technology LP has invested
5 in order to eliminate the need for RTOs with no
6 health risk to the valley, along with the
7 substantial reduction in greenhouse gases, is
8 something that we fully support. It would be a
9 sad story if Swan Valley's plant were to be shut
10 down first due to more excessive costly
11 requirements that others do not use.

12 In closing, we would just like to say
13 we have faith in our government, and we know that
14 the recommendations that they will make -- that
15 they will make the right decision in this matter.

16 Thank you for allowing us to be here
17 today.

18 THE CHAIRMAN: Thank you, Mr. Neely.
19 Any questions of Mr. Neely from the panel? Thank
20 you very much.

21 Our next presenter is Mr. Henry
22 Barkowski.

23 MR. BARKOWSKI: My name is Henry
24 Barkowski and I'm the mayor of the Town of
25 Minitonas. I thank the commission for giving me

1 this opportunity to participate in the Louisiana
2 Pacific Minitonas Oriented Strandboard Plant Air
3 Emission Review. I make this presentation on the
4 behalf of the Town of Minitonas.

5 Although I have a Bachelor of Science
6 and MEd degree, I do not consider myself an expert
7 on the scientific matters before this public
8 meeting. You may be gracious enough to give me
9 some acknowledgment of having some expertise in
10 community by having had 31 years of experience on
11 Minitonas Town Council and being a resident of the
12 community for 39 years.

13 We are the community that is in
14 closest proximity to the Louisiana Pacific mill.
15 We are a community of about 500 residents.
16 Minitonas is a great place to live and raise a
17 family. We are a progressive, safe and caring
18 community.

19 As a council, we are always concerned
20 about health, safety and welfare of our citizens.
21 As this meeting is concerned with health and
22 safety of citizens, permit me to cite some
23 examples of our commitment to the safety of our
24 citizens.

25 Water testing: Our public water

1 utility provides high quality water to the
2 community. Water is derived from an underground
3 aquifer and is treated by osmosis and chlorinated,
4 is monitored daily and tested by an authorized lab
5 biweekly. Samples are taken from various
6 locations in town. We have the reputation for
7 having some of the best water in Manitoba.

8 West Nile mitigation: We eliminated
9 areas where water could accumulate by improved
10 drainage and storm drains. A major project is on
11 the table to install a storm drain on Knox Avenue.
12 We consistently cut grass in ditches. These
13 efforts reduce or eliminate breeding ground for
14 mosquitoes. We do not larvicide or fog for
15 mosquitoes, preventing release of additional
16 chemical into the environment.

17 Green space maintenance: We do not
18 use chemicals on our green spaces such as parks
19 and playgrounds.

20 RCMP annual public meeting: We are
21 probably one of the few communities that meet on
22 an annual basis with our RCMP to discuss issues of
23 public safety. Approximately 30 to 40 persons
24 attend these meetings. The RCMP also support an
25 annual bicycle rodeo conducted by the Minitonas

1 Early Years School to promote safety for young
2 cyclists.

3 Safe property: We enforce bylaws to
4 provide safe buildings and property. Some 12
5 abandoned wells have been filled in the past two
6 years, and 21 derelict buildings have been
7 demolished in the past six years. We consistently
8 monitor properties and have virtually eliminated
9 properties that pose risk.

10 As this meeting is also concerned with
11 the environment, I cite examples of how we have
12 been proactive in undertaking some green
13 initiatives that benefit our environment.

14 Tree planting: In the past five years
15 over 2500 trees have been planted in the
16 community. Most of these trees, deciduous and
17 coniferous, were supplied at no cost by Louisiana
18 Pacific.

19 Waste reduction: As a community we
20 operate a recycling program under the Manitoba
21 Product Stewardship program. In addition, we
22 recycle scrap metal, tires, batteries, chemical
23 containers and e-waste. We also promote
24 composting by offering home composters at a
25 substantially reduced cost.

1 Lagoon upgrade: Annually we spend
2 approximately \$25,000 to treat our sewage in the
3 lagoon so that the BDO count is at proper levels
4 before the effluent is released. At a cost of
5 approximately 1.2 million, we, in partnership with
6 the Rural Municipality of Minitonas, and the
7 Federal and Provincial governments, are in the
8 process of expanding our lagoon. In addition to
9 increasing our capacity, the expansion will allow
10 for natural treatment of sewage by sunlight, thus
11 essentially eliminating our reliance on chemicals.
12 This will have a positive impact on the quality of
13 water that enters the Swan Lake watershed and
14 ultimately Lake Winnipegosis. There will be no
15 trace residue of chemicals currently used in
16 treatment.

17 Our partnership with the RM of
18 Minitonas will allow all residents of that
19 municipality to have their septic waste dumped in
20 the lagoon. This will eliminate the need for all
21 septic waste from being dumped untreated on to
22 land.

23 Green energy: We operate a town hall
24 and are presently installing a geothermal heating
25 and cooling system that will eliminate reliance on

1 natural gas. The fire hall, the library, the
2 arena and the curling rink are all on electrical
3 energy. The municipal office and two public works
4 sheds operated by the RM of Minitonas are also on
5 geothermal energy. Hence 100 per cent of the
6 rural municipality's buildings are high efficiency
7 green energy buildings. The town council will
8 continue to advocate for alternative green energy
9 sources for all public buildings.

10 Public engagement: We also facilitate
11 public engagement. All of our council meetings
12 are open to the public and occasionally citizens
13 come to express concerns. We are one of the few,
14 if not the only, council that has anywhere between
15 15 to 30 people come to a meeting to review
16 council's financial plan, capital plan and
17 strategic plan. Citizens present their questions
18 and concerns. We are also the closest level of
19 government to our citizens and we interact with
20 our citizens almost on a daily basis. If a dog is
21 loose, defecates or voids on public or private
22 property, we hear about it. If somebody's
23 property becomes even slightly unkempt, we hear
24 about it. If someone is driving an off-road
25 vehicle, we hear about it, whether they are

1 breaking the law or not. Our citizens are not shy
2 to express their concerns, nor do they lack the
3 opportunity to do so.

4 We have not had any concerns expressed
5 to us regarding the Louisiana Pacific's plan to
6 discontinue the use of the RTO units. Since the
7 early years of the operation of the Louisiana
8 Pacific Minitonas OSB plant, a community liaison
9 committee has included members of local, municipal
10 councils. We have had a council member regularly
11 representing us on the LP liaison committee. At
12 these regular meetings there is open dialogue and
13 communication and exchange between plant
14 representatives and the council's representative
15 on various aspects of the mill operation.

16 As early as 2001, Louisiana Pacific
17 representatives have openly discussed their
18 intentions to pursue the elimination of the RTO
19 units and welcomed all questions from committee
20 members. When we learned that Louisiana Pacific's
21 plan to shut down the RTO units was creating some
22 controversy in the media, we invited company
23 management to come to a council meeting to discuss
24 their plans. We had an informative meeting and
25 asked many questions for which satisfactory

1 answers were provided.

2 I have cited some of these examples
3 that demonstrate that, as a council, we are
4 concerned about the safety and health of our
5 citizens and that we practice and promote
6 environmentally friendly initiatives. We also
7 subscribe to making informed decisions.

8 From the data we have reviewed, it
9 appears that nitrogen dioxide and carbon dioxide
10 gas is emitted during the combustion of natural
11 gas in the operation of the RTO units would be
12 essentially eliminated. As well the consumption
13 of non-renewable energy source would be
14 eliminated, with substantial reduction of
15 greenhouse gas emissions. The amounts of benzene
16 and formaldehyde would be well within acceptable
17 limits. The net result may possibly be even
18 better air quality. The decommissioning of the
19 RTO units appears to have no adverse affect on the
20 environment or on health.

21 Benchmarks: As a council we were
22 founding members of the Swan Lake Watershed
23 Conservation District. The primary concern for
24 our local CD is water quality. One of the
25 activities of the CD was to do a water quality

1 study of the Swan River and Woody River, the two
2 major streams in our watershed. Plans are to do
3 the same for all the streams in the watershed.
4 This data will serve as a benchmark.

5 Many of our residents were involved in
6 a comprehensive health study to set a benchmark
7 for the health of our citizens prior to the
8 operation of the Minitonas OSB plant. These
9 benchmarks can be used for comparison with future
10 studies to see if the air emissions have any
11 impact on human health or water quality.

12 Louisiana Pacific has proven to be a
13 good corporate citizen. Some of us have known the
14 manager, a local person, from childhood. He is a
15 person whom we trust and with whom we have a good
16 rapport.

17 At one time our fire department
18 responded to fires at the bark pile or plant quite
19 frequently. We raised our concern with mill
20 management, and they had already undertaken
21 initiatives to mitigate the fire hazard by
22 eliminating the bark pile and installing fire
23 detection and submission equipment at the mill
24 which virtually eliminated calls to our fire
25 department for firefighting services. Our

1 department has not been called to the plant for
2 over two years. Several members of our fire
3 department are employees at the mill, and
4 management has cooperated in releasing them for
5 all fire calls.

6 The mill brings waste to our nuisance
7 grounds and they have been compliant with
8 regulations regarding disposal of their waste.
9 They have also provided bark sweepings for us to
10 use as pit cover in winter when soil normally used
11 for cover is frozen.

12 Our community has received a sizeable
13 donations from LP Canada for local projects such
14 as the Minitonas arena receiving \$30,000 toward
15 the artificial ice plant; 2,500 for Minitonas
16 community sign; Minitonas library, \$1,000 for
17 renovation and restoration of a local historic
18 landmark in our community; and our Minitonas
19 volunteer fire department has received various
20 donations in excess of 5,000 for equipment such as
21 turn-out gear, communication equipment, et cetera.

22 Economic impact on the community: The
23 LP Canada Minitonas OSB plant has been operating
24 in the RM of Minitonas since 1996 and has provided
25 approximately 175 jobs at the Minitonas OSB mill

1 and the forest resource division in Swan River.
2 Their operations provide opportunity for income to
3 many area businesses and related service providers
4 such as CN Rail, loggers, truckers, truck owners
5 and drivers, fuel distributors, and mechanical
6 service providers.

7 Due to the current recession, over
8 half of the employees are currently not working
9 due to a recent curtailment in the production of
10 OSB and the procurement of wood. As a result,
11 there is a substantial decline in economic
12 activity for local area businesses and related
13 industries.

14 An emerging trend which is of concern
15 to us is that of current LP and related industry
16 employees seeking alternate employment outside the
17 Swan River Valley and putting their homes up for
18 sale. This reduction in employment will be
19 crippling to our community.

20 As a specific example, within the last
21 month we have hired an assistant town foreman.
22 With only two weeks of local advertising, there
23 were 19 applicants. All but three were either
24 directly or indirectly related to LP's Minitonas
25 OSB operation. Most of the applicants were

1 actually overqualified for the position. Normally
2 we would have had five or six applicants with one
3 or two suitably qualified. During the interviews
4 we noted that the applicants seemed to have a
5 sense of desperation.

6 Taxation is based on assessment and
7 assessment of a business or industry is partially
8 based on its ability to generate profit. As LP's
9 assessment reduces, there will be a significant
10 shift in the tax burden for the RM of Minitonas
11 taxpayers with respect to municipal taxes. Other
12 areas of the municipalities, including the Town of
13 Minitonas, will see an increase with respect to
14 education taxes.

15 The decommissioning of the RTO units
16 will enhance the sustainability and viability of
17 the plant by reducing the capital costs.

18 Should this public meeting find that
19 the recent shutdown of the RTOs units at the
20 Minitonas OSB plant have no detrimental impact on
21 the air quality, the Town of Minitonas fully
22 supports the permanent elimination of the RTOs
23 units. This would be consistent with our belief,
24 practices and commitment to the pursuit of
25 environmentally friendly initiatives. It would

1 also sustain viable industry, communities, and
2 contribute positively to the health and welfare of
3 our citizens and their families.

4 Thank you for providing the
5 opportunity to comment on an issue which is of
6 substantial importance to our community. We trust
7 the Clean Environment Commission panel, through
8 this public meeting and in consultation with
9 experts, will review all relevant data and make
10 recommendations to the Minister of Natural
11 Resources based on science, the environment,
12 equity within the OSB industry, and with
13 consideration that is in the best interests of our
14 citizens. I respectfully submit this document.

15 THE CHAIRMAN: Thank you, Mayor
16 Barkowski. Is there any questions from the panel
17 for Mayor Barkowski?

18 MR. GIBBONS: Actually, I'm not sure
19 if this is out of order or not, but
20 Mayor Barkowski's submission actually raised a
21 question for me that I would like to put to
22 Mr. Neely and Mr. Wicks. It is a result of
23 some -- is that something we could do? It is just
24 an overall -- I have a sense of their --

25 THE CHAIRMAN: We will have to ask, if

1 there is a response, if you could come up and use
2 the microphone.

3 MR. GIBBONS: They are still up there.

4 THE CHAIRMAN: Sorry, go right ahead.

5 MR. GIBBONS: The reason I'm not
6 asking the mayor -- the Honourable Mayor about
7 this is because being mayor, I know you are
8 resident there, you live in Minitonas, and you
9 have also said in your document that you had an
10 opportunity to ask questions of LP and so on.

11 Mr. Neely and Mr. Wicks, can I presume
12 that you are both residents of the area, and you
13 live here and breathe the same air and so on?

14 MR. NEELY: Right.

15 MR. GIBBONS: Have you had a chance to
16 attend meetings where LP has explained to you what
17 they are doing and so forth, to the extent that
18 you feel comfortable with the changes that they
19 intend to make?

20 MR. WICK: They spoke, there was a
21 presentation at our AGM this year, the Chamber of
22 Commerce AGM, yes. They had a pretty inclusive
23 presentation and there was an opportunity to ask
24 questions and get answers.

25 MR. GIBBONS: So you feel comfortable

1 with those changes then?

2 MR. WICK: Yes, we do, as a chamber we
3 do, yes.

4 THE CHAIRMAN: As a follow-up question
5 I guess to Mayor Barkowski, you mentioned in your
6 presentation as early as 2001 there was
7 discussions with Louisiana Pacific about
8 decommissioning the RTOs. And you mentioned in
9 particular, you know, attendance at meetings and
10 discussions that are primarily at the community
11 liaison committee level. Was this communicated to
12 your citizens as a whole, or how was this done?

13 MR. BARKOWSKI: Our representative
14 reported back to council, but that was not
15 necessarily communicated to the citizens at large.

16 THE CHAIRMAN: Okay. Thank you. With
17 no further questions, we will adjourn, as there
18 are no other presenters until this evening. So we
19 will reconvene, as I mentioned before, at
20 7:00 o'clock this evening. Thank you.

21 (Hearing recessed at 3:54 p.m. and
22 reconvened at 7:00 p.m.)

23 THE CHAIRMAN: Good evening ladies and
24 gentlemen, if I could have your attention please?
25 We would like to reconvene our meeting for today,

1 July 28th. We have three presenters on our
2 schedule. Two of the presenters that are on first
3 are with the Concerned Citizens of the Valley. I
4 would ask Margaret Romak and Maria Kent if they
5 could come forward to the presenters table?

6 That's fine, go ahead, we will work
7 without copies, that's fine. First of all, you
8 will have to take our oath.

9 (OFF THE RECORD)

10 THE CHAIRMAN: Can I have everyone's
11 attention again? We had to make some copies, I
12 think we are ready to go, I believe. So with the
13 last few staples being done, we will proceed with
14 the presentation with the Concerned Citizens of
15 the Valley. And I will ask Cathy to swear in the
16 presenters.

17 (Maria Kent: Sworn)

18 (Margaret Romak: Sworn)

19 THE CHAIRMAN: Please proceed.

20 MS. ROMAK: Does it matter to you if
21 the one with the copies goes first or the one
22 without?

23 THE CHAIRMAN: It doesn't matter.

24 MS. ROMAK: Okay. I will get started
25 then. Good evening members of the panel, citizens

1 of Swan Valley. My name is Margaret Romak and I
2 am a member of Concerned Citizens of the Valley.

3 The various groups that are presenting
4 all want to persuade the government, through the
5 CEC, that we each have the solution to the problem
6 at hand. Our group does not have all of the
7 answers and neither does LP. We believe that not
8 all options have been looked at yet. There are
9 certainly stones that have been left unturned. We
10 have searched out as many answers as we can, but
11 there are still questions.

12 The material we all present to you
13 needs to be looked at analytically with an eye to
14 the facts and not opinions. But can we discern
15 what is fact and what is not?

16 (OFF THE RECORD)

17 THE CHAIRMAN: I have a hunch -- are
18 you using Word Perfect or Microsoft Word?

19 MS. ROMAK: I used Microsoft Office.

20 THE CHAIRMAN: But you probably have
21 the 2007, the latest version, and perhaps this
22 computer does not handle the latest version.

23 MS. ROMAK: We will go without it.
24 Everything is in your print-out when she gets it,
25 she will just have to pass it around. I thought

1 it might keep the audience awake, but they are
2 going to have to be on their own.

3 Can we discern what is facts and what
4 is not? Corporations such as LP now rely more on
5 PR companies than ever before. The public
6 relations business is one of the fastest growing
7 industries in the global market economy. The
8 Louisiana Pacific Corporation has done business
9 with Burson-Marsteller, the world's largest PR
10 firm, with 63 offices in 32 countries. That
11 company specializes in perception management on
12 environmental issues, and here is a quote from
13 them.

14 "Perceptions are real. They colour
15 what we see, what we believe and how
16 we behave. They can be managed to
17 create positive business results."

18 Burson-Marsteller's environmental
19 services have benefited industrial polluters such
20 as Union Carbide, to handle the public relations
21 crisis caused by the Bhopal tragedy in India in
22 '84. Up to 25,000 died immediately and 200,000
23 have had permanent injuries. For ten years Union
24 Carbide denied culpability with the help of
25 Burson-Marsteller. They have also worked for

1 Exxon, who needed good PR to cover their business
2 in the wake of the Exxon Valdez oil spill in 1989.

3 The peril to democracy posed by slick
4 PR firms should not be underestimated. The whole
5 reason for the introduction is so that when you
6 consider LP's presentations, please remember the
7 amount of power that they wield and the dollars
8 they can use to leverage opinions in their favour.

9 I'm going to have to the ask the lady
10 that is doing the copying for my first page. I'm
11 going to have to go fairly fast because I have got
12 five topics to cover. The first one will be
13 comparing what the recommendations and promises
14 were, some of them, out of the CEC hearing in '94
15 and what actually happened. The second will be a
16 layperson's overview of RTOs, RCOs and
17 biofiltration. Otherwise, the second title is,
18 "There is More to This Issue Than RTOs or
19 Nothing." LP's corporation financial outlook, who
20 is most susceptible to emissions from the LP mill
21 and why. And why our society has gone past the
22 days of jobs versus the environment.

23 In '94, one of the main things that we
24 pulled out of that document for our presentation
25 was the part where the CEC panel recommended that

1 the public be involved intimately, all the way
2 through any process when it comes to looking at
3 environmental issues. And the quote I have here
4 it says:

5 "It is vital that the public's
6 interest and involvement in
7 environmental reviews be supported and
8 facilitated in the future."

9 And this is how that was not met. Number one, the
10 public was not informed that the RTOs had been
11 shut off on an interim basis. Number two, there
12 was a very small notice placed in the newspaper,
13 which most people did not see, to tell the public
14 about the request that LP was making to have the
15 RTOs shut off permanently. Number three, we have
16 asked Minister Struthers many times for a full
17 public hearing and we were denied. Four, we have
18 asked Minister Struthers for intervenor funding
19 and we were denied. The public has had to fund
20 its own research and work in its spare time to
21 prepare for this meeting. So that promise was not
22 fulfilled.

23 Participants in '94 were concerned
24 about the environmental record of LP. LP said it
25 did not appreciate being depicted as a bad

1 corporation.

2 Recommendation number 12 from '94

3 says:

4 "Pollution control equipment shall not
5 be bypassed during the operation of
6 the plant except under emergency
7 conditions, as specified in the
8 licence."

9 Why on earth would CEC have even put
10 this into their recommendations?

11 In Montrose, Colorado, the LP
12 facility, a LP supervisor was fired when he
13 refused to tamper with the mill's pollution
14 monitoring equipment. Criminal investigation
15 showed tampering on 12 occasions by inserting foil
16 into the monitor, pulling a protective lens off
17 the monitor, and miscalibrating the monitor and
18 turning it off. Admittedly, this occurred some
19 time ago under different management, but this is
20 the example of why government must remain vigilant
21 in its role as the people's first line of defence.

22 The third item from '94, a community
23 health study was recommended to compare the health
24 of residents before and after the plant was built,
25 to compare with other regional, provincial and

1 national rates. LP estimated the cost of the
2 health study, and that's in there. Resolve health
3 related issues which could arise in the future was
4 another reason for having this community health
5 study, and lung tests for the community similar to
6 those provided to the employees.

7 There was a Dr. Kay Wotton was in
8 charge of the study, but it was dropped. We are
9 in contact with her and we will be getting a
10 write-up from her about why that study did not go
11 ahead. All we have heard is that there were
12 roadblocks in her way. But rather than going with
13 that, we are going to ask for a fact based
14 document to pass to you.

15 We did find out that some residents
16 blew into machines to test lungs before the mill
17 was built, and nobody ever came back again. The
18 health study was not done, which LP had estimated
19 at a certain cost, and I figured it out by 15
20 years they have saved almost \$1 million that that
21 study was not done.

22 The next four questions have to do
23 with the employees of the OSB mill. Was there a
24 health study done on the employees of the mill?
25 Was there baseline data or pre-employment health

1 assessments done? Has an assessment been done for
2 each of the last 15 years on employees? Are the
3 employees aware of the research that has been done
4 into the risks posed by those working in an OSB
5 mill? And I will be passing you the research
6 along with that.

7 Number 4 from '94 said these things,
8 and maybe LP has done every one of them, in that
9 case, that's great, but I didn't have time to read
10 through everything so I'm posing this to the
11 commission to check it out for us.

12 "Baseline ambient air, water, soil,
13 flora and fauna monitoring shall be
14 taken to provide baseline data prior
15 to the construction of the plant.

16 A schedule shall be established to
17 ensure ongoing monitoring of water,
18 soil, flora and fauna."

19 The corporation has said that it would be prepared
20 to cooperate with Manitoba Natural Resources,
21 which had proposed that sample plots be used to
22 gauge any adverse impacts on vegetation. Manitoba
23 Environment said a licence could require small
24 plots to be maintained in order to compare impacts
25 on vegetation.

1 "Groundwater monitoring wells shall be
2 installed and operated according to
3 the requirements identified by
4 Manitoba Environment."

5 They could also take water samples from the
6 Sinclair River.

7 "Manitoba Government shall prescribe a
8 reporting procedure for the
9 environmental monitoring and ensure
10 public access to the results."

11 As I said, maybe all of these things
12 were done, but my next question is, were any of
13 these done using independent monitors as well, not
14 just LP monitors? And if we could have a report
15 from somebody on that?

16 The last thing I'm going to do about
17 the CEC hearing in '94 is to do with monitoring,
18 compliance, enforcement and auditing. This was
19 some of the things that were said: Monitoring
20 would be performed by both the corporation and the
21 department. In some cases, the corporation would
22 be responsible for its own monitoring, for which
23 it could contract with companies with monitoring
24 expertise. In these cases, the department would
25 review the corporation's methodology and audit the

1 results. Independent monitoring would be
2 important to ensure the plant operates within its
3 licence. As such a rigorous schedule for
4 collecting and analyzing and sharing the results
5 with the public could be established. The
6 department said it would perform its own
7 prearranged and unannounced tests. And in case
8 anybody missed that, I will read that one again.
9 Number four: The department said it would perform
10 its own pre-arranged and unannounced tests.
11 The corporation said one shift per week would
12 perform preventative maintenance. The corporation
13 said the emission control equipment would be
14 operational 99 per cent of the time.

15 Number one, the two stations that were
16 set up to capture the samples of air emissions
17 were placed in the wrong area. We had that
18 covered quite thoroughly earlier, but I will read
19 the email to go along with that from Dave Bezak in
20 Conservation.

21 "It is our view that the current
22 sample collection frequency for the
23 above substances is just too
24 infrequent to possibly ever capture an
25 air sample that might be impacted by

1 the facility emissions and, therefore,
2 reflective of that impact."

3 Even worse than the fact that the
4 monitors were not collecting, is the fact that
5 Manitoba Conservation and LP were told right at
6 the beginning, and for 15 years they have been
7 told that by citizens, and nothing has been
8 changed.

9 So with that in mind, I would like to
10 read you a few quotes off of LP's website.

11 "They have a spirit of openness and
12 transparency. They gather concerns
13 and input from members of the
14 community. They believe in 100 per
15 cent compliance, 100 per cent of the
16 time. Ethical behaviour at all times.
17 High level of communications."

18 Manitoba Conservation promised it
19 would do its own testing as well, both prearranged
20 and unannounced. When they were asked if they had
21 done any random tests, they said no. Ryan
22 Coulter, Department of Conservation:

23 "My comments were specific to stack
24 sampling. I'm not aware of any
25 surprise stack sampling. I will

1 discuss your question with the
2 regional office to see if they have
3 anything to add."

4 Number four, does LP designate one
5 shift per week to do preventative maintenance?

6 Number five, were they running the
7 emission control equipment, RTOs, 99 per cent of
8 the time?

9 To hear members of the community and
10 others talk, the last statement is laughable, but
11 how would we know? It seems our government was
12 not checking up.

13 Remember my conclusion at the end of
14 part two of this presentation. It went like this:
15 Admittedly, this occurred some time ago under
16 different management, but this is an example of
17 why government must remain vigilant in their role
18 as the people's first line of defence.

19 One of last quotes from the CEC
20 hearing from '94 goes like this:

21 "But, as much as the people of the
22 valley wanted jobs and other economic
23 spinoffs related to the proposed
24 project, they were well aware there
25 could be impacts on the environment.

1 A number of people at the hearings
2 were well informed about these
3 potential impacts and offered the
4 panel well prepared, insightful
5 presentations. For the most part,
6 residents were prepared to place their
7 trust for their well-being and the
8 well-being of their families in the
9 hands of the government, believing
10 that regulations and restrictions
11 would be imposed on LP to ensure
12 minimal health and environmental
13 impacts from the oriented strandboard
14 plant."

15 Monitoring compliance, enforcement and auditing, I
16 think we are missing some key parts of that
17 equation.

18 The next section I have titled, there
19 is more to this issue than RTOs or nothing. And I
20 certainly am a layperson, I have read more about
21 RTOs and RCOs than I had ever thought I would.
22 But I have some interesting quotes here, which I'm
23 very glad the United Steel Workers Union has
24 written a document called "Securing our Children's
25 World, Our Union and the Environment." And they

1 have greatly aided in my presentation.

2 "Solution to the environmental
3 problems are well within our grasp,
4 air and water pollution can be
5 virtually eliminated by redesigning
6 manufacturing processes, switching to
7 cleaner products, installing good
8 control technology, recycling more,
9 toxic chemicals replaced by safer
10 ones. The problems are not technical,
11 they are economic and political. Our
12 choices are to be victims of change or
13 to control that change to the benefit
14 of ourselves and our children."

15 The union has it exactly right. There
16 is the technology now developed to control air and
17 water pollution. We have to have good control
18 technology, and that's what brought this, all of
19 us to this table is that question.

20 I'm not going to sit here and give
21 technological information about RTOs or RCOs or
22 biofiltration. We have had many people in our
23 group that have spoken that know a great deal
24 about it, and all kinds of LP people here could
25 tell you all about it. And we have expert

1 testimony coming to you before September 1st on
2 this subject. All I'm here to say is that there
3 are choices out there. This is not a matter of
4 either the RTOs stay on or they stay off.

5 In the 15 years since the mill here
6 opened, there have been new and improved emission
7 control technologies developed. In fact, on the
8 internet when they talk about RTOs now, they talk
9 about third generation RTOs. There is a big
10 difference just in what used to be available 15
11 years ago and what is available now.

12 When LP says either the RTOs are shut
13 off or we will consider closing the mill, they are
14 not looking at all of the options out there.
15 There are a variety of choices to look at. A
16 solution can be found, one that is cognizant of
17 the economics of the day and one that will also
18 protect the environment.

19 There is a reason why sayings become
20 very famous, where there is a will, there is a
21 way.

22 I'm passing to the panel 14 websites
23 that discuss the pros and cons of RTOs, RCOs and
24 biofiltration. I will not read through that right
25 now because that's very detailed information, but

1 there is extremely promising things being used
2 already by LP in the States in the biofiltration
3 area. So none of this is things that are still
4 yet to come, these things are up and working
5 already.

6 And the last item I'm going to read
7 for that particular presentation is from Rosann
8 Wowchuk when she was speaking in the Manitoba
9 Legislature in 1994.

10 "Madam speaker, when the announcement
11 was made by the Clean Environment
12 Commission that the RTOs would be
13 installed in the LP plant, everybody
14 was very pleased that we were going to
15 have the best possible controls."

16 And that's what we are still after.
17 Is it might not be the RTOs that are in there now,
18 there might be something better and cheaper.

19 I have got to get my next package.

20 The next one is LP's financial
21 outlook. Thank goodness for the internet, we were
22 able to find informative material. This one is
23 from March 23, 2009. And it is somebody from the
24 Bank of America speaking.

25 "LP has successfully managed through

1 many business cycles and has
2 strengthened its financial position in
3 anticipation of the current downtown.
4 This financing should give LP the
5 financial flexibility to continue to
6 expand its capacity and grow its
7 market share during challenging
8 economic times."

9 All of these have the websites on them, so you
10 will be able to find them quite easily.

11 The second one, February 27, 2009, of
12 course everybody here would like to note that
13 Frost is the CEO of LP.

14 "As we had anticipated, 2008 proved to
15 be a very challenging year for our
16 businesses and we expect 2009 to also
17 be difficult, Frost said. Our goal
18 this year is to position LP to emerge
19 from the global economic crisis
20 stronger than before. Based on our
21 action and plans to enhance liquidity,
22 we believe that when this economic
23 downturn subsides, we will be well
24 positioned to compete and prosper,
25 Frost concluded."

1 Third article, March 26, 2009:

2 "Louisiana Pacific has signed a deal
3 for 100 million asset backed credit
4 line with the Bank of America and
5 Royal Bank of Canada. We believe that
6 this capital availability, along with
7 our previously announced actions, will
8 reduce costs and conserve cash, and it
9 will allow us to get through these
10 poor market conditions and position
11 ourself to take advantage of the
12 economic rebound as it occurs."

13 Fourth one, November 18, 2008, this is a direct
14 quote straight from the request to amend the
15 Manitoba Environment Act, it is from LP, of
16 course:

17 "With annual operation and maintenance
18 costs of over \$3 million, the economic
19 burden of operating RTOs places LP
20 Swan Valley at a significant
21 competitive disadvantage as compared
22 to the rest of the OSB industry in
23 Canada. With the current market
24 conditions forecasted into 2010, it is
25 highly conceivable that the Swan

1 Valley OSB mill will shut down
2 indefinitely, directly impacting 175
3 staff and hourly personnel, and
4 various associated contractor log
5 handlers should the requirement to
6 operate RTOs remain."

7 There is not a word in there about options.

8 March 25th, 2009, I do not have this website, if I
9 find it, I will pass it to you, but I will read
10 what I do have.

11 "This year will be an endurance
12 contest, but companies that adapt and
13 survive will prosper as the economy
14 rebounds, according to Rick Frost, LP
15 Corporation's CEO."

16 Sixth article, 18th of March, 2009, it is talking
17 about the future of OSB, not just LP.

18 "The demand is expected to push up
19 prices in 2010. Structural panel
20 prices will climb quickly when the
21 expected market rebound occurs in
22 2010, as a greatly reduced capacity
23 base strives to meet increasing
24 demand, according to Greg Lewis,
25 director of wood products San

1 Francisco based industry information
2 provider, RISI. This will help lift
3 North American wood panel demand,
4 particularly OSB, in late 2009 and in
5 2010, when a 25 per cent increase to
6 40 billion feet squared is predicted."

7 I want you to understand this isn't the Readers
8 Digest that is forecasting this. Wood Panels
9 International readership comprises senior
10 executives in that industry such as managing
11 directors, chief executives, plant production
12 managers, project managers, sales and purchasing
13 executives, and technical research and
14 development.

15 Seventh article is from July 1, 2009:
16 "LP expands into Australia, Japan and
17 Britain. LP has met four potential UK
18 wholesale distributors to represent
19 its engineered wood products. The
20 move comes as LP accelerates its plan
21 to also enter the Australian and
22 Japanese markets, as part of a
23 concerted campaign to grow their
24 market share and to capitalize on
25 Weyerhaeuser's retreat from the

1 international engineered timber
2 market. We have invested a lot during
3 a down market which shows the
4 commitment of LP to expand
5 internationally, said Al Huber, LP's
6 international sales manager of
7 engineered wood products."

8 The eighth one, wood based panel industry, an
9 analysis, 2009. The reason I'm going on at length
10 about the economic forecast for LP is that that's
11 what they were using as their reason for shutting
12 off the pollution control, so I think we need to
13 address it quite thoroughly.

14 "The North American market remains
15 extremely challenging, still driven by
16 the U.S. housing and credit crisis.
17 One of the challenges that both North
18 America and European panel makers are
19 facing is increased imports from
20 China. The turnaround in the housing
21 market in North America is not
22 expected to be met until 2010, and
23 experts believe that 2009 will be a
24 transition year with tough conditions
25 similar to 2008. In the year 2009,

1 downward pressure is likely to
2 continue, but from 2010 upwards demand
3 is likely to catch up."

4 And the last one is interesting. I will just have
5 to have water here. It is a phone transcript that
6 Rick Frost put on line when they were talking
7 about 2009 earnings, June 2009.

8 "It feels to me like we hit the bottom
9 in February and that is the consensus
10 of my LP management team as well."

11 Rick Frost.

12 "If we exclude OSB mills..."

13 Now, this is a question over the phone to him,
14 coming from Peter Ruschmeier from Barclays
15 Capital.

16 "If we exclude OSB mills that are
17 down, I am curious if your U.S. and
18 Canadian assets are running at similar
19 operating rates, and given the decline
20 in the Canadian collar, is your
21 profitability starting to get back to
22 parity between the U.S. and Canadian
23 mills?"

24 And Frost answers,

25 "Yes, it is pretty evenly split on

1 operating rates between Canada and the
2 U.S. Obviously the dollar going the
3 way that it did helped take one of the
4 disadvantages that we had about having
5 so much production out of there. The
6 problem is, a lot of that Canadian
7 volume is sold into the most
8 distressed OSB market in terms of
9 pricing, which is the west. They are
10 kind of offsetting each other."

11 So I'm going to sum up this presentation about
12 LP's finances this way, using again the United
13 Steel Workers Union document. I have to thank
14 them again for helping me with my work. That is
15 the union that represents the employees that work
16 here.

17 "The overwhelming majority of our
18 members work today for large
19 multi-national corporations who
20 compete globally with little regard or
21 loyalty to their countries of origin.
22 Some companies have threatened to shut
23 down, pitting worker against
24 environmentalists. Additional
25 controls would be just too expensive

1 these companies say, and workers who
2 want to save their jobs had better
3 line up behind their employers. That
4 is a familiar corporate strategy. An
5 unregulated global economy that
6 increases the gap between rich and
7 poor and ignores sound environmental
8 science will ultimately destroy the
9 good jobs and the environment. The
10 enormous downward pressure of the
11 global economy has eroded
12 environmental standards. The current
13 path of globalization traps us all in
14 a race to the bottom, in which short
15 term corporate profits demand ever
16 lower labour and environmental
17 standards. For many years companies
18 have tried to use economic and
19 environmental blackmail on the union
20 and on the public. There is the
21 corporate economist to tell us that if
22 we persist, the company or the
23 industry will fold with hundreds or
24 thousands of lost jobs. Companies
25 usually try to externalize costs to

1 make somebody else pay for the real
2 cost of production. Often these
3 externalized costs are much larger
4 than the costs the company avoided by
5 refusing to improve conditions in the
6 first place. But the company's
7 concern is with its own bottom line,
8 not the cost to society."

9 So that's the end of that presentation.

10 The next one is who is most
11 susceptible to emissions and why? This is
12 probably the most important part of our, or at
13 least of my presentations. People on our panel
14 are not at risk from what is coming out of the LP
15 mill, we are older and we don't live downwind from
16 the mill. We are not speaking on our own behalf
17 in many cases. We are speaking for the people who
18 either can't or won't come to this microphone
19 themselves, or who are too young to do so. What
20 we have compiled in this list is far from
21 complete, but it is only what information we could
22 pull together in our limited time. This is
23 something that needs to be researched and analyzed
24 by experts. It is too important to be left to
25 ordinary citizens scouring the internet. We need

1 to be aware that just because we do not see an
2 immediate cause and effect from pollution, that
3 everything is fine. It is our children and their
4 children that may pay the biggest price.

5 Seven generation principle: Seven
6 generation sustainability is an ecological concept
7 that urges the current generation of humans to
8 live sustainably and work for the benefit of the
9 seventh generation into the future. In every
10 deliberation we must consider the impact on the
11 seventh generation, even if it requires having
12 skin as thick as the bark of a pine. And that
13 comes from the Iroquois.

14 One generation being about 20 years,
15 times seven is 140 years. There is a lot of
16 chemicals that after they were used for not even
17 40 years, our society was starting to pull them
18 off the market because they realized that they had
19 made decisions that did not look at the long term
20 damage that they could cause.

21 This list, again, will have referenced
22 websites, you are going to be able to check out
23 anything that we say.

24 Although everyone is at risk from
25 health effects from air pollution, certain

1 subpopulations are more susceptible, the elderly,
2 people living with cardio respiratory problems,
3 such as COPD and asthma, appear to be some of the
4 most vulnerable. People who work and play
5 outdoors are at a greater risk of exposure.
6 Children are uniquely susceptible because they
7 breathe more deeply than adults and because their
8 bodies are still developing. The developing brain
9 is much more sensitive than the developed brain.
10 That means that children and pre-born. The impact
11 of chemicals especially on elementary school
12 children can be lifelong.

13 By the way, most times when you hear
14 quotes about the effect of chemicals, that's
15 called a referenced concentration and that's based
16 on adults, not children. Our scientists are just
17 now starting to catch up and realize that there
18 need to be referenced concentrations based on
19 children, not just adults.

20 Obese children are more susceptible.
21 Evidence is accumulating that environmental
22 exposure to air pollution can cause infants and
23 pre-born to be born premature, low birth weight,
24 or with certain birth defects. Children may be
25 more highly exposed to contaminants and they may

1 be more vulnerable to the toxic effects of
2 contaminants. They generally eat more food, drink
3 more water, and breathe more air relative to their
4 size than adults do. Little children put their
5 hands in their mouth and play on the ground. And
6 scientists are finding as they study these toxic
7 chemicals that they are having effects at much
8 lower doses than they ever thought possible.

9 Children's immune defences are not
10 fully developed. Early exposure, which means
11 children, to environmentally persistent free
12 radicals, present in air born ultra-fine
13 particulate matter, affects long-term lung
14 function. Very dramatic things, when you go to
15 the sources on this, it is very amazing.

16 As it is stated at the beginning,
17 everyone is at risk from air pollution, but those
18 listed here are the most vulnerable in our
19 society.

20 I would also point out that there is a
21 general belief in the valley here that, well, that
22 stack is blowing away from Swan River, the Town of
23 Minitonas, so it is not much of a problem, it is
24 blowing into the bush, but I think we might find
25 it a little different.

1 Canada is a signatory to the United
2 Nations Convention on the rights of the child,
3 which defines a set of fundamental rights of
4 children and obligations of government. One of
5 the rights that the United Nations says that
6 children has is a healthy environment. And here
7 I'm going to give credit where it is due, to the
8 Provincial Government. They set up, under Gary
9 Doer when he was first elected Premier in 1999, a
10 very excellent program called Healthy Child
11 Manitoba. He publicly committed his government to
12 making early childhood a government wide priority.
13 Ministers have been meeting regularly to put
14 children and families first. There is seven or
15 eight Provincial departments working on this
16 together. However, when this government allows
17 increased emissions, it is violating its whole
18 philosophy of healthy child. For example, one of
19 their slogans is, when you are pregnant, no
20 alcohol is best. We would like to see them add,
21 when you are pregnant no benzene is best, or when
22 you are pregnant no formaldehyde is best. Their
23 slogan has been, when we get it right for our
24 kids, we get it right for all of us. I would
25 challenge them to rethink their opinion on the

1 emissions.

2 And that brings me to the last item
3 that I have, which is I have stolen the name from,
4 there was a U.N. report in 1987 by Brundtland that
5 was titled "Our Common Future." And whether we
6 are sitting here as a panel, LP, community members
7 or the concerned citizens, we all have a common
8 future. What decisions we make today is going to
9 be the future we live with.

10 Workers do have an understanding of
11 environmental issues. 100,000 North American
12 workers die each year from workplace diseases that
13 are caused by the same chemicals that later find
14 their way into our air and water. The environment
15 outside the workplace is only an extension of the
16 environment inside.

17 Employees have a role to play in this
18 environmental reform and sustainable growth. In
19 the lean mean free trade world, pressure is on
20 health and safety standards. Environmentalists
21 and workers must begin to work together for
22 solutions, aware that the worker has the most to
23 lose. Employees should not be expected to make
24 sacrifices and lose jobs because of environmental
25 regulations. It is the government's role to

1 support employees' income when environmental
2 issues arise.

3 Future sustainable economy must
4 provide good jobs and protect the environment, not
5 one or the other. We have to find ways to meet
6 environmental objectives without imposing undue
7 hardship on working people and their communities.
8 It is fundamentally unfair to require working
9 people to absorb the cost of environmental
10 controls that benefit society as a whole. The
11 only answer is to link environmental reform with
12 economic justice. Cleaning up the environment and
13 improving public health should never be
14 accomplished on the backs of the workers. We need
15 to protect workers and their communities from
16 corporate practices that release toxic chemicals
17 into our workplaces and our neighborhoods,
18 endangering us all.

19 Can the destruction of our environment
20 be stopped, and if so, who is going to pay the
21 price? Some would have us believe the problems
22 are not as serious as we think, or they can be
23 left to somebody else to deal with. And others
24 say pollution is just the price of progress.

25 "We believe the greatest threat to our

1 children's future lies in the
2 destruction of their environment.
3 Scientists are very clear that
4 escalating human impairment of our
5 environment will rapidly and
6 irretrievably change the ability of
7 human beings to survive on the planet.
8 Good jobs, a clean environment, a
9 safer world. It is our children's
10 world, we must not fail to protect
11 it."

12 Every single quote that I just read came from the
13 United Steel Workers Union document already cited,
14 Securing our Children's Future, Our Union and Our
15 Environment. And it seems to me they could teach
16 LP a few things about how to write things that
17 mean exactly what they say. Good jobs, a clean
18 environment, a safer world, that sums the whole
19 thing up.

20 Here is four questions that I have.
21 So why are so many of the employees speaking in
22 favour of LP decommissioning the RTOs? Why did
23 none of the union reps at the local level,
24 district level or federal level wish to speak to
25 our group? Why did most of the municipal councils

1 back up LP's request? Why did the majority of
2 this valley choose to remain silent on the issue?

3 It is because of one statement LP
4 made:

5 "With the current market conditions
6 forecasted into 2010, it is highly
7 conceivable that the Swan Valley OSB
8 would shut done indefinitely."

9 That is economic and environmental blackmail.

10 Our group, the Concerned Citizens of
11 the Valley have been accused over and over of fear
12 mongering. The definition of fear mongering is
13 spreading discreditable misrepresentative
14 information designed to induce fear and
15 apprehension.

16 We have asked questions. We have
17 spent months reading and researching. At long
18 last we are able to put before the CEC the
19 information that we have come up with and the
20 questions that we could find no answers for. We
21 have not spread misinformation and we have had no
22 agenda to induce fear or apprehension.

23 My closing line is the same as my
24 opening line, many months ago, that I wrote to
25 Minister Struthers. We Canadians deserve the same

1 level of protection from harmful emissions that LP
2 affords its own citizens. They have not turned
3 off any pollution controls in the States to save
4 money.

5 And the very last quote belongs to
6 Wendell Berry:

7 "Whether we and our politicians know
8 it or not, nature is a party to all of
9 our deals and decisions, and she has
10 more votes and a longer memory and a
11 much sterner sense of justice than we
12 do."

13 I will be open for questions.

14 THE CHAIRMAN: Thank you, Ms. Romak.
15 Does the panel have any questions?

16 MR. GIBBONS: One quick question, it
17 was just a reference that you made earlier about
18 the health studies not done. Could you elaborate
19 on what you are referring to there? There was a
20 baseline study in '95, and you are speaking then
21 of follow-up studies? Is that what you are
22 talking about?

23 MS. ROMAK: I'm speaking of the health
24 study that was supposed to be ongoing, that Kay
25 Wotton was in charge of. I have tracked her down

1 on the internet, she has been doing some work in
2 Pakistan and all kinds of places. She is a very
3 bright doctor.

4 We are getting in contact with her to
5 ask if we might have a written report from her
6 about exactly why she backed out of this health
7 study. Because it does you no good for us just to
8 say, oh, I think, you know, there were roadblocks,
9 which is what I was told. Well, that tells you
10 nothing at all. So we will try and get it on
11 paper for you.

12 MR. GIBBONS: Okay.

13 THE CHAIRMAN: Thank you, Ms. Romak.
14 There is a lot of information here, it is not that
15 we don't have a lot of questions, it is just that
16 we need time to digest all of this information.
17 Thank you again.

18 Please proceed, our next presenter,
19 Maria Kent.

20 MS. KENT: Thank you, hi. I'm
21 speaking to the panel today just to express my
22 concerns about Louisiana Pacific's application to
23 decommission its RTOs. I'm not an expert. I
24 don't know what is currently regarded as
25 mathematically safe levels of pollutants, I can't

1 do that math. But I'm very grateful for the
2 opportunity to stand before you and share my story
3 and my concerns about this issue.

4 My concerns are twofold. I'm
5 immediately and primarily concerned about the
6 potential effects of this decision on the health
7 of myself and my family, particularly my 16 month
8 old son, as well as the residents of my community
9 and the communities surrounding the plant.

10 Secondly, I am concerned about the
11 social implications of a decision to do this. I
12 believe that Canada was moving forward with a
13 national strategy to decrease levels of pollution.
14 We are, from what I understand, in phase 2 of the
15 Canada wide standards for benzene control. Are
16 our leaders planning to step back in time or move
17 forward toward a greener, cleaner and healthier
18 Canada?

19 I first learned that LP had
20 temporarily decommissioned its RTOs in our local
21 paper. I was shocked and outraged that our
22 government would allow this risk to the health of
23 our community without, it seemed to me, fully
24 reviewing the issues.

25 I actually wrote to the CEC at the

1 time with questions about this, and these are
2 questions that I'm still asking to everyone that I
3 can. And let me be clear how difficult it is for
4 me to stand here and talk about this issue. I
5 have certainly not jumped on a bandwagon. After
6 doing my own research and becoming informed to the
7 level that I could, I have taken a stand on an
8 incredibly sensitive topic in the valley, that
9 causes a great deal of stress to discuss. I am
10 standing for the health of the people in this
11 valley. I'm standing for the health of my family
12 and my son. It is outrageous that the company
13 would provide a community with the ultimatum of
14 pollution control or jobs. And it is devastating
15 to me to know that other livelihoods are at risk
16 and have already been impacted.

17 Yet I know that I have a reason to be
18 concerned. First, I have yet to see a health risk
19 assessment provided by LP that is written by an
20 independent third party. And my questioning of
21 the validity of LP's health assessment seems
22 absolutely appropriate when you consider that the
23 first chemical that they have assessed, which is
24 formaldehyde, is assessed using the CIIT
25 standards, rather than an IRIS assessment that is

1 generally in use. The CIIT standards are much
2 lower and are inconsistent with the health risks
3 considered by our Federal Government.

4 So I have been asking questions, and I
5 have not received very many answers. First, why
6 are we back here? What really has changed? The
7 citizens of this community fought this fight well
8 over ten years ago. At that time the Commission
9 came out with recommendations that protect the
10 health of the people of our valley, because of the
11 residents who chose to stand up and take a risk,
12 despite the very real personal costs to them.

13 I understand that the LP plant has
14 adopted some environmentally friendly practices
15 and they should be commended for that. However,
16 it is plain as day to me that suggesting that the
17 RTOs can be turned off because these practices
18 serve as a replacement is grossly untrue. If the
19 bark burners really eradicate the need for RTOs,
20 then why would the company be applying for an
21 increase in its emissions limits? I do not
22 understand how our government has considered this
23 request to decommission RTOs when I look at the
24 information around me.

25 Increasingly, science is showing that

1 we have not been protected enough from the toxic
2 effects of chemicals. It didn't take very long to
3 find this magazine, a consumer guide around
4 products that have been shown to cause cancer.
5 And I can give you a copy of this, I have only got
6 one copy, but I would be happy to do that.

7 When I look at the information
8 provided by Health Canada on the current causes of
9 hospitalization and deaths, it is mostly due to
10 heart and lung disease and cancer. This consumer
11 guide that I have got states that in the 1970s,
12 one in five people had a life time probability of
13 developing cancer. Today, one in 2.3 Canadian men
14 and one in 2.6 Canadian women are expected to
15 develop cancer over their lifetime. I'm one of
16 these statistics. I had cancer, a malignant
17 melanoma when I was 16. And I heard on CBC the
18 other day that this is becoming increasingly
19 common.

20 To this point the onus has been on
21 prevention from individual preventative practices,
22 I need to wear a hat and sunblock, for example.
23 But we all know that this is only part of the
24 solution. The incidence of chronic disease has
25 increased substantially these past decades, and

1 now that we understand there is a link between
2 pollutants and diseases such as cancer, we need to
3 do what we can to prevent these diseases from
4 happening. Across the board we need to see higher
5 standards, not an increase in emissions limits.
6 Government and industry now have a huge role to
7 play.

8 THE CHAIRMAN: Sorry to interrupt you,
9 we are having, our recorder is having some
10 problems keeping up with you. If you could just
11 slow down a bit, we need the transcript. Thank
12 you. Sorry to interrupt.

13 MS. KENT: It is obvious to me that as
14 a society we are not doing enough when I see that
15 we are exposed on a regular and ongoing basis to
16 carcinogens, reproductive toxins, neurotoxins and
17 endocrine disrupters. Yet research is only half
18 complete. We don't know how many of these
19 chemicals interact inside our bodies. And when
20 doing a health risk assessment, how often are the
21 micro-environments we live in considered? We
22 don't live in a vacuum where LP's increased
23 emissions are the only ones that matter. We live
24 in a valley, a valley that relies heavily on
25 agriculture and its associated chemicals; in homes

1 where we are already exposed to some levels of
2 these contaminants. Like a good pharmacist, the
3 committee needs to consider this decision's impact
4 on our health within the context of our true
5 environments, before making a decision to
6 decommission pollution controls.

7 I'm aware that this multitude of
8 chemicals goes far beyond LP, however, within this
9 context we are talking about LP emitting some very
10 dangerous chemicals. My understanding is that, at
11 a basic level, toxic pollutants the plant emits
12 include VOCs, benzene and formaldehyde, among
13 others.

14 So what are the effects of some of
15 these pollutants? I have learned that
16 formaldehyde and benzene both meet the definition
17 of toxic substances under schedule 1 of CEPA as of
18 December 27th, 2006. They are both classed as
19 carcinogenic to humans. Benzene is a
20 non-threshold toxicant, a substance for which,
21 according to CEPA, there is considered to be some
22 probability of harm for critical effects at any
23 level of exposure.

24 The Canadian Council of Ministers for
25 the Environment have recommended that benzene

1 exposure be reduced wherever possible. They have
2 implemented Canada wide standards for benzene, of
3 which Manitoba is participating as of 2000.

4 Our government is now considering an
5 increase in benzene emissions to ease the economic
6 stress on a plant. It strikes me that this can be
7 liken to a pregnant woman who is given an
8 alcoholic drink to ease her stress. The first is
9 somehow considered reasonable, the second absurd,
10 yet both are risking the health of the new baby.

11 Aside from being classed as a toxic
12 substance and carcinogen by CEPA, formaldehyde can
13 cause irritation of the eyes and respiratory tract
14 and affects lung function. According to
15 Environmental Defence, respiratory toxins affect
16 the breathing system. When these toxins are
17 inhaled, they affect the nasal passages, pharynx,
18 trachea, bronchi and lungs. These toxins cause
19 both acute and chronic illnesses such as
20 bronchitis, pulmonary fibrosis, emphysema, cancer
21 and general breathing problems. As irritants,
22 respiratory toxins can also increase the severity
23 of respiratory infections and can aggravate
24 asthma.

25 In their 1998 document, National

1 Ambient Air Quality Objectives for Particulate
2 Matter, Executive Summary, this actually I
3 believed initially it was by Health Canada. I
4 found this document on the Health Canada website,
5 but apparently it was written by CEPA, a CEPA
6 working group. The article states:

7 "While the mortality and
8 hospitalization end points have been
9 emphasized, they are really only the
10 tip of the iceberg with respect to
11 particulate matter induced human
12 health effects. Other adverse effects
13 such as bronchitis, reduced lung
14 function, restricted activity,
15 absenteeism, and increased costs for
16 medication are evident and are
17 occurring at ambient concentrations
18 currently experienced within Canada."

19 The more I have looked into the effect
20 of toxic chemicals on our health, the more
21 concerned I have become. My generation has been
22 left a toxic legacy. Not only are we increasingly
23 introduced to chemicals, it generally falls to
24 government or advocacy groups to prove that
25 chemicals cause deleterious effects to humans or

1 to the environment. Unfortunately, by the time
2 this can be proven too many people have become
3 statistics. They have already died or they have
4 been chronically ill from the effects of these
5 chemicals.

6 In addition, while maximum exposure
7 levels have often been studied, low dose toxicity
8 has not. This needs to be considered before we
9 increase the levels of toxic pollutants in our
10 community. And if low dose exposure has not been
11 studied, it should be. In fact, an Environmental
12 Defence's Report, "Polluted Children, Toxic
13 Nation, a report on pollution in Canadian
14 Families," the author states:

15 "Historically, significant studies on
16 the health effects of chemicals
17 involved feeding high doses of a
18 single chemical to laboratory animals.
19 Results from these studies have lead
20 to the false assumption that only a
21 high dose of the chemical will
22 negatively affect human health. There
23 are several problems with this
24 assumption, beginning with the fact
25 that by its very nature, a high dose

1 test does not involve a test for
2 health effects at low levels."

3 When looking at statistics on the
4 health impacts of pollutants, please remember that
5 every statistic is a life impacted by pollution,
6 and often a life ended by pollution. And please
7 also remember that because vulnerable populations
8 are more susceptible to the effects of pollution,
9 that statistic you see is very likely an infant, a
10 child or an elder.

11 Again, I quote from Environmental
12 Defence, they reported that cancer is the most
13 common cause of death by disease in Canadian
14 children. The most common form of cancer in
15 children is leukemia, followed by cancers of the
16 spinal cord and brain. In children, exposure to
17 carcinogens in the womb during rapid fetalcell
18 division contributes the greatest risk to
19 developing cancer.

20 The health of our valley will be
21 impacted by your decision. I don't want a friend,
22 family member or any child to become a statistic
23 of a future study on the toxic effects of
24 chemicals. And I certainly don't intend to have
25 my family, my son, become one of those statistics.

1 Thank you.

2 THE CHAIRMAN: Thank you, Ms. Kent.

3 Are there any questions?

4 MR. WAIT: On the first page of the
5 handout, the third last paragraph, comparing the
6 CIIT standards with the IRIS assessment, the last
7 sentence is written, the CIIT standards are much
8 lower. Is that meant to mean they are less
9 stringent or more stringent?

10 MS. KENT: They are less stringent.

11 MR. WAIT: Okay.

12 THE CHAIRMAN: Are there any other
13 questions on the panel?

14 The only thing I would note, Ms. Kent,
15 you had a magazine you might want us to read. If
16 you would -- we probably don't need the magazine,
17 but if you could leave us the reference, the title
18 and publisher, we might be able to track it down.

19 MS. KENT: Sure. No problem.

20 THE CHAIRMAN: Thank you very much.

21 Our last presenter of the evening is
22 Sophie LeDeux.

23 SPEAKER: She is not able to be here,
24 couldn't come.

25 THE CHAIRMAN: Okay. Well, with that,

1 I thank the presenters, all of the presenters that
2 made presentations today. And everyone in
3 attendance, again, thank you for attending and
4 participating in these public meetings. We will
5 reconvene tomorrow in this very same location at
6 1:00 o'clock.

7 (Hearing adjourned at 8:03 p.m.)

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OFFICIAL EXAMINER'S CERTIFICATE

I, CECELIA REID, a duly appointed Official
Examiner in the Province of Manitoba, do hereby
certify the foregoing pages are a true and correct
transcript of my Stenotype notes as taken by me at
the time and place hereinbefore stated.

Cecelia Reid
Official Examiner, Q.B.