

PCA Case No. 2013-22

IN THE MATTER OF AN ARBITRATION UNDER CHAPTER
ELEVEN OF THE NORTH AMERICAN FREE TRADE AGREEMENT
AND THE 2010 UNCITRAL ARBITRATION RULES
BETWEEN:

WINDSTREAM ENERGY LLC

Claimant

- and -

GOVERNMENT OF CANADA

Respondent

TRANSCRIPT OF PROCEEDINGS
held at the offices of Arbitration Place,
333 Bay Street, Suite 900, Toronto, Ontario,
on Wednesday, February 17, 2016 at 8:59 a.m.

FULL TRANSCRIPT
(including confidential and
restricted access information)

VOLUME 3 - REVISED MAY 12, 2016
CONDENSED TRANSCRIPT WITH INDEX

BEFORE:

Dr. Veijo Heiskanen (President)

Mr. R. Doak Bishop

Dr. Bernardo Cremades

A.S.A.P. Reporting Services Inc. © 2016
1105-200 Elgin Street 900-333 Bay Street
Ottawa, Ontario K2P 1L5 Toronto, Ontario M5H 2T4
(613) 564-2727 (416) 861-8720

APPEARANCES :

John Terry for the Claimant
Myriam Seers
Nick Kennedy
Emily Sherkey

Also present:

Various parties Deloitte
Client representative, David Mars

Sylvie Tabet for the Respondent
Shane Spelliscy
Rodney Neufeld
Heather Squires
Susanna Kam
Jenna Wates
Valantina Amalraj
Melissa Perrault
Darian Parsons

Also present:

Various parties, Berkeley Research Group,
URS, Ministry of Citizenship, Immigration and
International Trade/Ministry of Economic
Development, Employment and Infrastructure, Ministry
of the Attorney General, Crown Law Office - Civil,
Ministry of Energy, Ministry of Natural Resources
and Forestry, Ministry of the Environment and
Climate Change, Independent Electricity System
Operator (Formerly the Ontario Power Authority)

Lisa M. Barrett Court Reporter
Teresa A. Forbes Court Reporter

INDEX	PAGE
AFFIRMED: UWE ROEPER	7
EXAMINATION BY MS. SEERS	7
CROSS-EXAMINATION BY MR. NEUFELD	8
RE-EXAMINATION BY MS. SEERS	100
FURTHER CROSS-EXAMINATION BY MR. NEUFELD	140
FURTHER RE-EXAMINATION BY MS. SEERS	142
AFFIRMED: PERRY JOHN CECCHINI	157
EXAMINATION BY MS. SQUIRES	157
CROSS-EXAMINATION BY MS. SEERS	164
RE-EXAMINATION BY MS. SQUIRES	251
QUESTIONS FROM THE TRIBUNAL	253
AFFIRMED: ROSALYN LAWRENCE	267
EXAMINATION-IN-CHIEF BY MR. NEUFELD	269
CROSS-EXAMINATION BY MR. TERRY	271
RE-EXAMINATION BY MR. NEUFELD	373
QUESTIONS FROM THE TRIBUNAL	377
AFFIRMED: JOHN DAVID WILKINSON	383
EXAMINATION-IN-CHIEF BY MR. SPELLISCY	383
CROSS-EXAMINATION BY MR. TERRY	385
RE-EXAMINATION BY MR. SPELLISCY	444
QUESTIONS FROM THE TRIBUNAL	453

1 Toronto, Ontario
2 --- Upon resuming on Wednesday, February 17, 2016
3 at 8:59 a.m.
4 PRESIDENT: Claimant ready to go? 08:59:40
5 Respondent, you are ready to go? Court. Good 08:59:43
6 morning, ladies and gentlemen. This is Day 3 in 08:59:52
7 NAFTA arbitration hearing between Windstream Energy 08:59:55
8 LLC and the Government of Canada. 09:00:00
9 The parties have seen the time budget 09:00:02
10 or time spent accounting that was calculated by the 09:00:09
11 secretary last night. You will see that in terms of 09:00:15
12 the effective time of the parties, there is a credit 09:00:17
13 of some half an hour for the parties. So the 09:00:20
14 Tribunal has spent perhaps a bit more time than was 09:00:24
15 anticipated on its questions, so that is to be taken 09:00:27
16 into account. 09:00:31
17 Are there any housekeeping issues to 09:00:33
18 be raised by either party today? 09:00:36
19 MR. TERRY: Just one very small 09:00:49
20 housekeeping matter. We expect, as has occurred 09:00:50
21 yesterday, that there will be some materials put to 09:00:54
22 the witness that will require us to come back and 09:00:57
23 put additional materials in. 09:01:00
24 Do you have with you -- there will 09:01:03
25 really be, it looks like, a lot of the same 09:01:04

1 PRESIDENT: Thank you very much. You 09:02:07
2 have submitted two witness statements in this 09:02:08
3 proceeding. You should have a hard copy of those in 09:02:12
4 front of you, I understand. 09:02:15
5 THE WITNESS: I believe this is it. 09:02:20
6 PRESIDENT: Yes. The first one is 09:02:21
7 dated August 18th, 2014, and the other one June 17, 09:02:23
8 2015. 09:02:27
9 Do you confirm that these are your 09:02:29
10 statements? 09:02:30
11 THE WITNESS: I do. 09:02:31
12 PRESIDENT: Do you confirm the 09:02:32
13 contents of these statements? 09:02:33
14 THE WITNESS: I do. 09:02:37
15 PRESIDENT: Do you have any 09:02:39
16 corrections to make? 09:02:39
17 THE WITNESS: No, I do not. 09:02:41
18 PRESIDENT: Thank you very much. The 09:02:43
19 procedure will be the following: You will be first 09:02:45
20 asked a few questions by counsel for Windstream. 09:02:48
21 Then there will be a cross-examination by counsel 09:02:52
22 for the Government of Canada. Then possibly 09:02:54
23 questions on redirect by counsel for Windstream, and 09:02:58
24 then there may be questions from the Members of the 09:03:02
25 Tribunal at any time during your examination. Do 09:03:05

1 materials that we had yesterday, and do you have 09:01:07
2 those with you just so we know how many copies to 09:01:08
3 make? 09:01:11
4 PRESIDENT: We have them with us, so 09:01:13
5 no need to redistribute. We have those. 09:01:15
6 MR. TERRY: Thanks very much. 09:01:20
7 PRESIDENT: And the Respondent? 09:01:21
8 MR. NEUFELD: Nothing from the 09:01:24
9 Respondent. 09:01:25
10 PRESIDENT: Thank you very much. The 09:01:25
11 next item on the agenda will be the examination of 09:01:28
12 Mr. Roeper. Good morning, Mr. Roeper, if that's the 09:01:32
13 way you pronounce your name. My apologies in 09:01:36
14 advance if it's not. 09:01:39
15 THE WITNESS: Yes, that's correct. 09:01:41
16 Thank you. 09:01:42
17 PRESIDENT: Now, if you could state 09:01:44
18 your full name for the record and then read the 09:01:45
19 declaration of a fact witness that you have in front 09:01:51
20 of you. 09:01:53
21 THE WITNESS: My name is Uwe Roeper, 09:01:53
22 and I solemnly declare upon my honour and conscience 09:01:56
23 that in my evidence before this Tribunal I shall 09:02:00
24 speak the truth, the whole truth, and nothing but 09:02:01
25 the truth. 09:02:05

1 you understand the procedure? 09:03:08
2 THE WITNESS: Yes, I do. I'll do my 09:03:09
3 best. 09:03:11
4 PRESIDENT: Thank you very much. So, 09:03:17
5 it will be Ms. Seers. 09:03:17
6 AFFIRMED: UWE ROEPER 09:03:18
7 EXAMINATION BY MS. SEERS: 09:03:25
8 Q. Good morning, Mr. Roeper. 09:03:28
9 A. Good morning. 09:03:30
10 Q. Could you please explain briefly 09:03:31
11 for the Tribunal a little bit about your background? 09:03:32
12 A. I am president of ORTECH 09:03:35
13 Consulting. I actually own the company. We are 09:03:37
14 a company with 30 35 staff. We are involved in 09:03:40
15 permitting, planning and project managing renewable 09:03:43
16 energy projects and industrial projects. 09:03:46
17 Q. Would you please, briefly, explain 09:03:50
18 for the Tribunal your involvement with the 09:03:52
19 Wolfe Island Shoals project and Windstream? 09:03:54
20 A. So we were retained by Windstream 09:03:57
21 in 2009 to assist initially with the preparation of 09:04:00
22 the FIT contract application, and then continued to 09:04:05
23 be engaged by Windstream throughout the development 09:04:08
24 phase of the project until now. 09:04:13
25 Q. Thank you, Mr. Roeper. Those are 09:04:17

Page 8

1 our questions for now. 09:04:18
2 PRESIDENT: Thank you, Ms. Seers. And 09:04:22
3 Mr. Neufeld. 09:04:24
4 CROSS-EXAMINATION BY MR. NEUFELD: 09:04:26
5 Q. Good morning, Mr. Roeper. 09:04:50
6 A. Good morning. 09:04:51
7 Q. My name is Rodney Neufeld, and I'm 09:04:52
8 counsel for Canada in this matter. I'll make 09:04:54
9 a couple of preliminary remarks. I also want to 09:04:57
10 raise the expert reports that you assisted with in 09:05:00
11 this hearing, so that we're aware that it's not just 09:05:02
12 the two witness statements, but also the ORTECH 09:05:05
13 expert report, and the report that's appended to the 09:05:08
14 Sgurr Report as well that you assisted with, as 09:05:12
15 well, correct? So it's very important that we 09:05:17
16 understand each other today, and if you don't hear 09:05:19
17 my question or need me to repeat it, please ask me, 09:05:22
18 please stop me and get me to do that. 09:05:26
19 It is important as well that you 09:05:28
20 answer audibly because this is all being recorded, 09:05:30
21 so we need a "yes" or "no" and preferably if you 09:05:32
22 could be directed in giving a "yes" or "no," of 09:05:36
23 course you're welcome to provide the context that 09:05:38
24 you need to provide for questions, but if the 09:05:42
25 question is very specific and only wants or needs 09:05:45

Page 10

1 A. That's correct. 09:06:50
2 Q. And professional engineer having 09:06:51
3 graduated from the U of M? 09:06:52
4 A. University of Manitoba with 09:06:55
5 a Bachelor of Science and a Masters in Science and 09:06:57
6 Engineering. 09:07:00
7 Q. I like to say U of M, because if I 09:07:01
8 say that everybody thinks Montreal, and we can't 09:07:04
9 understand. Only people who have graduated from the 09:07:08
10 University of Manitoba would be able to get that, as 09:07:11
11 I did. 09:07:14
12 So you were retained by Windstream in 09:07:15
13 2009 to assist with its 11 FIT applications; is that 09:07:18
14 right? 09:07:22
15 A. That's correct. 09:07:22
16 Q. And one of those was for 09:07:23
17 Windstream Wolfe Island Shoals? 09:07:24
18 A. That's also correct. 09:07:29
19 Q. Not to put any pressure on you, 09:07:30
20 but we spoke to Mr. Ziegler and Mr. Mars yesterday 09:07:32
21 who said they hire only the best of the best, and 09:07:35
22 Mr. Baines said to us yesterday that I think his 09:07:38
23 words were something to the effect of "I will never 09:07:42
24 know as much about permitting as Mr. Roeper does 09:07:45
25 so," so you know, this is the sort of aura you come 09:07:48

Page 9

1 a very precise answer, we would appreciate if you 09:05:48
2 would do that. 09:05:51
3 If you need a break at any time this 09:05:52
4 morning let me know, I'll take a pause at 09:05:53
5 an appropriate time and we can have a break. 09:05:55
6 So I'll be referring to a number of 09:05:58
7 exhibits in my questions, and you will see those in 09:06:01
8 the binder in front of you. 09:06:04
9 I'll be saying, C- and R-numbers, 09:06:06
10 which you don't have to concern yourself with, 09:06:10
11 that's for the record. 09:06:12
12 I'll be pointing you to the tab 09:06:14
13 numbers in the binders so you can follow along just 09:06:15
14 by the tab. 09:06:19
15 The expert reports, as well, we'll 09:06:19
16 have a look at the ORTECH report and the two Sgurr 09:06:22
17 reports as well. 09:06:29
18 And finally, we have the ability to 09:06:30
19 call up all this information on the screen, so if 09:06:32
20 you prefer not flipping and you just want to read it 09:06:35
21 off the screen, Donnie here can enlarge things on 09:06:39
22 the screen and make it easy to follow, so that's 09:06:45
23 an option as well. 09:06:46
24 So you are the president of ORTECH 09:06:47
25 Consulting we just heard; correct? 09:06:48

Page 11

1 with as you come to speak with us today. 09:07:54
2 Let me start about asking about your 09:08:02
3 experience and your knowledge about the permitting 09:08:04
4 process in Ontario. 09:08:07
5 Paragraph 18 of your first witness 09:08:09
6 statement you say that you began working with 09:08:10
7 Windstream to develop renewable energy projects in 09:08:13
8 2009, and it specifically said "based on the 09:08:17
9 strength of the regulatory system..." 09:08:21
10 Do you recall that? 09:08:28
11 A. You are referring to point 19 in 09:08:31
12 my witness statement? 09:08:34
13 Q. I was in paragraph 18, I think, 09:08:36
14 but where you use the word "strength of the 09:08:37
15 regulatory system." 09:08:41
16 A. May I just read this? 09:08:43
17 Q. Oh, for sure, yeah. 09:08:44
18 A. Okay. 09:09:04
19 Q. And that regulatory system 09:09:04
20 included the REA; you would agree? 09:09:06
21 A. That included the entire 09:09:09
22 regulatory framework, including the REA, the site 09:09:12
23 release process going on at MNR, as well as the FIT 09:09:15
24 contract, and renewable energy procurement 09:09:18
25 initiatives from the Minister of Energy yes. 09:09:20

Page 12

1 Q. Okay, and the idea of the REA, you 09:09:23
2 wouldn't disagree, is to create transparency through 09:09:25
3 clear upfront rules for renewable energy projects? 09:09:31
4 A. That's -- I don't disagree with 09:09:34
5 that. 09:09:35
6 Q. According to your second witness 09:09:38
7 statement, the REA regulation did contain the 09:09:40
8 necessary rules to approve offshore wind projects; 09:09:42
9 correct? 09:09:45
10 A. Yes, I believe so. 09:09:48
11 Q. And these requirements are 09:09:49
12 contained in specifically in the offshore wind 09:09:51
13 facility report ? 09:09:53
14 A. The offshore wind facility report 09:09:57
15 was only outlined in the guidance documentation. 09:09:59
16 Q. Can you explain that? 09:10:05
17 A. There was no wind facility report 09:10:06
18 produced. 09:10:09
19 Q. In the REA itself though, I'll 09:10:14
20 take you to the document in a second, but do you 09:10:16
21 mean that there was no -- so the REA contains a wind 09:10:18
22 facility report, correct, an offshore wind facility 09:10:20
23 report? 09:10:22
24 A. The REA contains provisions for 09:10:24
25 wind facility report, yes, but not the report 09:10:27

Page 14

1 are in the REA regulation, would you view any of 09:11:35
2 those as applying to offshore wind? 09:11:37
3 A. The overall framework fully 09:11:43
4 applies to offshore wind, and I think REA is quite 09:11:45
5 clear that it applies to offshore wind, including 09:11:47
6 classified facilities, offshore wind facilities. 09:11:50
7 Q. Okay, but you can't cite to 09:11:53
8 a specific rule that would apply to -- 09:11:55
9 A. Could we bring up the regulation 09:12:00
10 and we can -- 09:12:02
11 Q. Sure. You will find it at 09:12:03
12 Tab 11 -- 09:12:04
13 (Simultaneous speakers - unclear) 09:12:05
14 A. -- without any context, so... 09:12:05
15 Q. No, it's at Tab 11, so if you can 09:12:07
16 flip to it by all means. Tab 11 in your binder is 09:12:09
17 the regulation. 09:12:12
18 So you will find wind facilities at -- 09:12:40
19 A. Are you talking about Section 6? 09:12:42
20 Q. Well, Section 53, right? 09:12:48
21 MS. SEERS: Yes, I don't mean to 09:12:54
22 interject again, but the witness has indicated he 09:12:57
23 would like to go to Section 6, so I would submit 09:13:01
24 that he should be permitted to do so. 09:13:06
25 BY MR. NEUFELD: 09:13:08

Page 13

1 itself. 09:10:29
2 Q. And those are the rules that you 09:10:30
3 cite to as the rules within the REA pertaining to 09:10:32
4 offshore wind? 09:10:35
5 A. That's part of the rules 09:10:38
6 pertaining to offshore wind. 09:10:39
7 Q. Are there other rules in the REA 09:10:41
8 that relate to offshore wind? 09:10:43
9 A. Well, the REA is made up of 09:10:45
10 a framework, and the framework consists of the 09:10:46
11 Environmental Protection Act, which we've used for 09:10:49
12 a long time to permit projects in Ontario, and it's 09:10:51
13 made up of the regulation. 09:10:54
14 There are a number of regulations 09:10:56
15 under the Environmental Protection Act of which REA 09:10:57
16 was the latest and newest specifically designed to 09:11:00
17 facilitate permitting of renewable energy projects, 09:11:04
18 which were previously permitted under the 09:11:06
19 Environmental Protection Act. 09:11:08
20 And the wind facilities report was 09:11:12
21 a specific piece of guidance documentation that was 09:11:14
22 published related to that REA Regulation 359/09. 09:11:17
23 Q. And specifically the rules that 09:11:23
24 you find in the REA itself, the precise rules of 09:11:26
25 setbacks and very sort of prescriptive rules that 09:11:30

Page 15

1 Q. I think he said part 6. Did you 09:13:08
2 say part 6 or Section 6? 09:13:10
3 A. The Section titled "Wind 09:13:12
4 Facilities." 09:13:15
5 Q. Sure, please, go to Section 6? 09:13:16
6 A. So in Section 6 "Wind Facilities," 09:13:18
7 it speaks at the bottom of Class 5 wind facilities, 09:13:20
8 and Class 5 wind facilities are the facilities that 09:13:27
9 are at a location where one or more parts of the 09:13:32
10 wind turbine is located in direct contact with the 09:13:36
11 surface water other than in wetland, and we believe 09:13:38
12 that to relate directly to offshore wind facilities. 09:13:41
13 Q. So Class 5 facility is an offshore 09:13:44
14 facility. 09:13:47
15 And then the -- 09:13:48
16 MR. BISHOP: Excuse me, could we 09:13:52
17 ensure we're on the same page? In my document there 09:13:52
18 is a title of "Wind Facilities" which is before 09:13:57
19 Section 63; is that the one you are referring to? 09:14:00
20 Are we on the same page? 09:14:03
21 THE WITNESS: There is an earlier one. 09:14:06
22 MS. SEERS: I believe, Mr. Bishop, the 09:14:08
23 witness is referring to Section 6 of the REA which 09:14:10
24 is -- 09:14:13
25 MR. BISHOP: Oh, I see. 09:14:14

Page 16

1 MS. SEERS: -- towards the beginning 09:14:15
2 of the document. 09:14:16
3 MR. BISHOP: Very beginning. My 09:14:19
4 apologies. 09:14:20
5 BY MR. NEUFELD: 09:14:21
6 Q. Then in Section 53 you find more 09:14:43
7 precise rules for wind facilities, is that right, 09:14:45
8 starting at Section 53? 09:14:49
9 A. That's -- let me just double-check 09:14:51
10 the facility. That's right, for Class 3, 4 and 5 09:14:57
11 wind facilities, which includes the offshore wind 09:15:04
12 facilities. 09:15:06
13 Q. It includes offshore. 09:15:07
14 Now if we just go to the first -- so 09:15:09
15 53(1) says: 09:15:12
16 "No person shall construct, 09:15:15
17 install or expand a wind 09:15:17
18 turbine that is to form part 09:15:19
19 of a Class 3, 4, 5 wind 09:15:19
20 facility unless the distance 09:15:21
21 between the centre of the 09:15:22
22 base and the wind turbine and 09:15:23
23 a public road rights, or 09:15:24
24 railway rights is equivalent 09:15:26
25 to the minimum -- at 09:15:27

Page 17

1 a minimum, the length of any 09:15:29
2 blades of the wind turbine 09:15:31
3 plus 10 metres." 09:15:32
4 Do you see that? 09:15:34
5 A. Yes. 09:15:35
6 Q. Does that apply to offshore 09:15:36
7 facilities? 09:15:38
8 A. Yes, it does apply to offshore 09:15:39
9 wind facilities. It is not relevant to offshore 09:15:42
10 wind facilities, but it applies to offshore wind 09:15:44
11 facilities. 09:15:44
12 Q. Is there anything relevant in 53 09:15:45
13 to offshore wind facilities? 09:15:48
14 A. If you don't mind, let me re-read 09:15:50
15 it. 09:15:50
16 Q. Sure. 09:15:50
17 PRESIDENT: While we are at it, 09:15:51
18 I understand Sections 54 and 55 also deal with wind 09:15:52
19 facilities; is that not correct? 09:15:58
20 THE WITNESS: That's right. 09:16:03
21 So the Section 53 applies to offshore 09:16:17
22 wind facilities. It has little relevance because 09:16:20
23 the structures referred to don't exist on open wide 09:16:22
24 facilities, but it was specifically written to say 09:16:26
25 it included Class 5 facilities, and so it does. 09:16:28

Page 18

1
2 BY MR. NEUFELD: 09:16:31
3 Q. Okay. And how about Section 54, 09:16:32
4 which creates the 550-metre setback from noise 09:16:32
5 receptors? 09:16:37
6 A. The 550 setback refers 09:16:45
7 specifically to on-shore wind facilities. 09:16:48
8 Q. Okay. To your knowledge, is there 09:16:52
9 anything in Section 54 that applies to offshore wind 09:16:54
10 facilities? 09:16:57
11 A. Honestly I'd have to re-read it to 09:17:00
12 make sure. 09:17:02
13 Q. Okay. 09:17:03
14 A. But if you'd like me to do that, 09:17:04
15 I can. 09:17:06
16 Q. Okay, well, I think -- I mean we 09:17:06
17 can all read it. I think it's probably not the best 09:17:08
18 use of our time today. 09:17:12
19 What I could take you to, however, is 09:17:14
20 Table 12 at the back, which you'll likely agree does 09:17:17
21 relate to offshore wind. You will see at the back 09:17:19
22 of the REA the list of reports that are required for 09:17:24
23 an REA, correct? 09:17:34
24 A. Is that Table 12? 09:17:44
25 MS. SEERS: Table 1, I believe. 09:17:46

Page 19

1 THE WITNESS: You mean Table 1? 09:17:48
2 BY MR. NEUFELD: 09:17:50
3 Q. Right. And within Table 1 there 09:17:54
4 are 14 sections, so the twelfth section within 09:17:56
5 Table 1. 09:18:01
6 A. Yes, Section 12 speaks to the 09:18:02
7 offshore Wind Facilities Report, which was mentioned 09:18:04
8 a few minutes ago. 09:18:06
9 Q. Right. So these are the specific 09:18:08
10 rules that apply to offshore wind? 09:18:10
11 A. The regulations typically set out 09:18:14
12 the broader -- the broader guidance, and the 09:18:15
13 specifics sometimes are added on to by additional 09:18:20
14 specific documentation, which REA had additional 09:18:25
15 specific documentation, but not for Section 12. 09:18:29
16 So Section 12 is what we had with 09:18:32
17 respect to offshore wind facilities, and because it 09:18:35
18 is a regulation, it is not as specific as some 09:18:37
19 technical guidance documents would be, but it 09:18:42
20 provides us some framework which essentially says 09:18:45
21 the report is to describe the following: The 09:18:49
22 nature of the existing environment, which is very 09:18:52
23 typical for environmental assessments; any negative 09:18:55
24 environmental effects, again, this is normal course 09:18:58
25 for the way we do environmental assessments, and 09:19:00

Page 20

1 mitigation measures. 09:19:03
2 So in the environmental assessment 09:19:04
3 process, this is exactly how a lot of environmental 09:19:06
4 assessments are done in order to complete the 09:19:11
5 environmental assessment process. So on 09:19:14
6 a site-specific basis you assess what kind of 09:19:17
7 facility you are putting out there. You are looking 09:19:21
8 at what the natural environment is, you do some 09:19:23
9 baseline studies, and then you look at what the 09:19:26
10 potential impacts could be, and you conclude whether 09:19:27
11 or not significant impacts occur, and whether those 09:19:27
12 significant impacts can be mitigated. So this is 09:19:32
13 very much the very established methodology, general 09:19:34
14 methodology for assessing environmental risk. 09:19:37
15 Q. And does it, in your view, fit 09:19:44
16 within what the REA set out to do to provide clear, 09:19:46
17 upfront rules? 09:19:50
18 A. I believe so. I think it does. 09:19:56
19 It's clear to me what those sections mean. 09:20:00
20 Q. If you can turn to Tab 19 of your 09:20:06
21 binder, please. This is the REA decision notice 09:20:08
22 that was published alongside the REA regulation; do 09:20:16
23 you recognize this document? That's at Tab 19. 09:20:20
24 A. Oh, Tab 19. 09:20:25
25 Q. Tab 19 of your binder. 09:20:26

Page 22

1 meet a setback of 250 metres 09:21:27
2 from residences and other 09:21:29
3 receptors." 09:21:32
4 Do you see that? 09:21:33
5 A. Yes, I do you. 09:21:36
6 Q. And turn to page 2, the fifth 09:21:36
7 paragraph on the page. There you see the reference 09:21:38
8 of that 550-metre setback for wind facilities, 09:21:41
9 right. It says: 09:21:46
10 "Most wind facilities must 09:21:48
11 meet a setback of 550 09:21:50
12 metres." 09:21:53
13 Which you said applied to on-shore 09:21:54
14 wind, right? 09:21:56
15 A. Yes. 09:21:58
16 Q. Look at the last full paragraph on 09:21:58
17 that same page. 09:21:59
18 A. On page 2? 09:22:00
19 Q. Yes. It provides there that: 09:22:01
20 "There are special rules for 09:22:03
21 wind facilities that include 09:22:05
22 turbines and contact surface 09:22:07
23 water, other than wetlands. 09:22:09
24 These facilities require 09:22:10
25 an REA and are required to 09:22:12

Page 21

1 A. Yes, I'm familiar with this 09:20:39
2 document. 09:20:40
3 Q. This would have been one of the 09:20:41
4 documents that you reviewed closely? 09:20:43
5 A. At the time, yes. 09:20:45
6 Q. Let's look at the last sentence of 09:20:48
7 the second paragraph. It says there that: 09:20:52
8 "These changes offer 09:20:56
9 an improved approach to 09:20:57
10 regulating renewable energy 09:20:59
11 generation facilities that is 09:21:00
12 based on transparency and 09:21:02
13 clear upfront provincial 09:21:04
14 rules." 09:21:05
15 [As read] 09:21:06
16 Do you see that? 09:21:06
17 A. Uh-hmm. 09:21:07
18 Q. Now, turn to page 3, please. 09:21:08
19 Under the heading of "Bio-energy Facilities," do you 09:21:12
20 see that heading? 09:21:17
21 A. Yes. 09:21:18
22 Q. Look at the second paragraph 09:21:18
23 there, the second sentence, it says that: 09:21:19
24 "Most farm-based anaerobic 09:21:23
25 digestion facilities have to 09:21:24

Page 23

1 submit an offshore wind 09:22:13
2 facility report. The 09:22:15
3 Ministry of the Environment 09:22:17
4 and MNR continue to work on 09:22:18
5 a coordinated approach to 09:22:20
6 offshore wind facilities 09:22:22
7 which would include 09:22:23
8 province-wide minimum 09:22:24
9 separation distance standards 09:22:26
10 for noise." 09:22:27
11 [As read] 09:22:28
12 Do you see that? 09:22:28
13 A. Right. 09:22:29
14 Q. So, you would agree that, while 09:22:30
15 there are setbacks for on-shore wind for bio gas, 09:22:32
16 they've never been established for offshore wind? 09:22:37
17 A. If I may provide some context to 09:22:40
18 the setback distances. 09:22:42
19 Q. Sure. 09:22:45
20 A. So before we had the setback 09:22:45
21 distances, we were required to model noise impacts. 09:22:47
22 So the way I perceive setback distances with respect 09:22:50
23 to the issues on wind turbines, not on bio gas, it 09:22:54
24 is a different issue, it is an odour issue, here it 09:22:58
25 is a noise setback issue. What the setback standard 09:23:00

Page 24

1 does for us, it simplifies the way we assess noise 09:23:03
2 impact for facilities. 09:23:06
3 So, normally what we do is we do 09:23:08
4 a noise model assessment, and based on that noise 09:23:11
5 model assessment we calculate how far to set 09:23:14
6 a turbine away from receptors, from residences. 09:23:17
7 Before this came out, when we were 09:23:21
8 still doing wind approvals under the environmental 09:23:23
9 screening report process, which was the predecessor 09:23:26
10 process to this, we would model individual wind 09:23:29
11 turbines and wind facilities, calculate the setback 09:23:31
12 distance to meet the Ontario Regulation for 09:23:34
13 40-decibel noise criteria. 09:23:35
14 When we did those for single turbines, 09:23:40
15 like the 550 metres, we would get results in 09:23:42
16 a typical setting, in rural Ontario, using the 09:23:45
17 typical models, of somewhere in the 400+ metre 09:23:48
18 range. 09:23:51
19 When this regulation came out, it set 09:23:51
20 a specific guideline of 550. 09:23:54
21 That 550 was actually really helpful 09:23:57
22 to us, because it allowed us to follow prescribed 09:24:00
23 standards instead of necessarily doing detailed 09:24:04
24 modelling on every single turbine. 09:24:06
25 And but where those guidelines aren't 09:24:09

Page 26

1 also says "including noise setback." So you're not 09:25:16
2 suggesting that that paragraph is limited to noise 09:25:19
3 and only noise, are you? Because it says very 09:25:23
4 specifically: 09:25:26
5 "... would include 09:25:26
6 province-wide minimum 09:25:27
7 separation distance standards 09:25:29
8 for noise..." 09:25:30
9 But, you know, it's "would include" 09:25:31
10 province-wide, so it's entirely possible that 09:25:34
11 they're working on setbacks for other things; isn't 09:25:38
12 that right? 09:25:45
13 A. I don't know what those would be 09:25:46
14 because as for on-shore wind facilities, the 09:25:47
15 established practice for on-shore wind facility has 09:25:51
16 been noise. There have been others. One is 09:25:53
17 mentioned in the text you just read about blade 09:25:56
18 distances from roads, that has to do with ice throw 09:25:57
19 from the end of blade, because we get icing here in 09:26:03
20 Ontario, and blades have to be far enough away from 09:26:06
21 roadways so that when ice builds up and sheds off 09:26:07
22 the blade, it doesn't fly onto roadways. That's 09:26:11
23 part of the reason we have setbacks. 09:26:13
24 So, yes, setbacks can be for different 09:26:15
25 reasons, but they are typically for reasons that are 09:26:17

Page 25

1 available, so for offshore wind, it's as it's 09:24:13
2 indicated here, there is promise that maybe 09:24:17
3 a standard will be developed, a standard didn't 09:24:19
4 exist at the time, so without the standard, as 09:24:22
5 a practitioner, my approach would be, since we don't 09:24:23
6 have standards, we would still have to meet the 09:24:27
7 40-dB guideline. We would then do a detailed noise 09:24:30
8 model and establish what the setback has to be. 09:24:33
9 That, I believe, is actually 09:24:35
10 consistent with that Section 12 that outlines the 09:24:36
11 process for how we do that. So it says we're 09:24:39
12 supposed to assess the environmental effects and 09:24:42
13 then mitigate them. 09:24:44
14 So, in my mind, the lack of a specific 09:24:45
15 setback here tells us what approach to use to solve 09:24:51
16 this issue, and the approach is detailed noise 09:24:55
17 modelling as opposed to following a standard 09:24:58
18 setback. 09:25:00
19 Q. But it also indicates that they 09:25:01
20 were working on a coordinated approach, so you are 09:25:02
21 expecting a setback in the future? 09:25:05
22 A. Absolutely. And I think there was 09:25:06
23 lots of communication in the summer of 2010 on 09:25:08
24 building and creating such a setback. 09:25:12
25 Q. We'll come to some of that. It 09:25:14

Page 27

1 very plausible, and noise is obviously one of them 09:26:17
2 for offshore. Ice throw could have been another 09:26:20
3 one, but it's not as probable. 09:26:23
4 Q. How about water intakes, drinking 09:26:25
5 water intakes? 09:26:27
6 A. Yes, there could be prescribed 09:26:29
7 setbacks from drinking water intakes. Drinking 09:26:31
8 water intakes are dealt with exactly in the same 09:26:34
9 manner. We look at the location of the project, we 09:26:36
10 look at the location of the drinking water intake, 09:26:38
11 and then we run models that determine if impact 09:26:40
12 might occur. And there indeed are some setback 09:26:45
13 guidelines related to drinking water, so, 09:26:49
14 absolutely, could mean plausible and reasonable 09:26:51
15 things that could be impacted by the project. 09:26:54
16 Q. Using your -- the reasoning that 09:26:56
17 you just applied to on-shore wind with the 550 09:26:58
18 setback, which you found to be very, very helpful, 09:27:01
19 likewise, it would have been very, very helpful to 09:27:02
20 have a setback from water intake or a noise setback 09:27:05
21 for offshore wind; wouldn't it have been? 09:27:09
22 A. Yes, it would have been helpful, 09:27:11
23 provided that setback was established in the same 09:27:13
24 pragmatic way that setbacks are typically 09:27:17
25 established. So we have one from distance from 09:27:19

Page 28

1 wetlands, we have it for distance from roadways, 09:27:22
2 from receptor locations and so on. 09:27:25
3 Q. So pragmatically based on good 09:27:27
4 reasoning, based on having good foundation, good 09:27:30
5 scientific foundation? 09:27:34
6 A. Setback rules or specifications do 09:27:36
7 a couple of things. Number 1, they simplify the 09:27:39
8 process. So when we're starting a project, we don't 09:27:42
9 know exactly what the setback distance needs to be 09:27:45
10 until we've done the detailed modelling work. 09:27:47
11 A setback distance helps us by 09:27:50
12 removing that issue and setting a standard and 09:27:54
13 saying your setback distance is 550 metres. So, 09:27:56
14 yes, I deem that to be very helpful because it gives 09:28:00
15 us at the outset of a project a more specific 09:28:02
16 guideline to follow. But we have many instances 09:28:05
17 where there are no guidelines for specific items, 09:28:09
18 and where there are no specific guidelines, we 09:28:11
19 follow the general approach, we use the modelling, 09:28:14
20 we use the science, and the specific requirements 09:28:16
21 such as the 40-dB noise guideline for Ontario. 09:28:20
22 Q. And you would agree that it would 09:28:23
23 be particularly helpful in the context of a FIT -- 09:28:24
24 complying with a FIT contract with very tight 09:28:28
25 timelines? 09:28:31

Page 30

1 confidential information in it. It's your rates 09:29:58
2 that are confidential so -- 09:30:00
3 A. But you're speaking of the 09:30:03
4 April 27th document? 09:30:04
5 Q. I believe it's April 27th, yes. 09:30:06
6 Again, it is listed as a confidential document, and 09:30:20
7 you don't -- and you have everything before you, but 09:30:23
8 as long as you don't read what's in the little red 09:30:25
9 box there on the other page, then we're fine to keep 09:30:27
10 this in public session, keep the feed on. 09:30:31
11 So this is a proposal to undertake 09:30:34
12 work for, it says, Mrs. Baines based on the meeting 09:30:36
13 that you had with officials on the 19th; is that 09:30:39
14 right? 09:30:43
15 A. Yes. 09:30:44
16 Q. It begins: 09:30:45
17 "As discussed during the 09:30:46
18 initial meeting with 09:30:47
19 regulatory agencies on 09:30:48
20 April 19th, offshore 09:30:49
21 permitting is a new area and 09:30:50
22 lacks well-defined study 09:30:52
23 criteria. The agency 09:30:54
24 suggested that a working 09:30:56
25 group be set up to help 09:30:56

Page 29

1 A. I view standards always as being 09:28:32
2 helpful. I see standards as a positive thing, yes. 09:28:35
3 Q. So your first interaction with MOE 09:28:40
4 came on November 19th, is that right, with respect 09:28:42
5 to the Windstream Wolfe Island Shoal Project? 09:28:45
6 A. Yes. 09:28:49
7 Q. When Mr. Boysen of MNR invited you 09:28:49
8 into a meeting with government reps to provide 09:28:52
9 an overview of your project; is that right? 09:28:55
10 A. Our client's project, yes. 09:28:58
11 Q. Or Windstream's project. And 09:28:59
12 according to paragraph 24 of your witness statement, 09:29:03
13 at this meeting you discussed the fact that offshore 09:29:06
14 permitting was new -- was a new area, and it lacked 09:29:08
15 well-defined study criteria? 09:29:12
16 A. That's correct, I wrote that. 09:29:20
17 Q. So at Tab 26, this is document 09:29:23
18 C-0235, for the record. 09:29:28
19 A. Sorry, which tab? 09:29:31
20 Q. Twenty-six. You will find 09:29:32
21 a document that was prepared by your colleague, 09:29:41
22 Leah Deveaux from ORTECH; do you see it there? 09:29:44
23 A. Yes, the proposal? 09:29:52
24 Q. Note, this is a confidential 09:29:54
25 exhibit, but I won't be taking you to any of the 09:29:56

Page 31

1 define the study criteria. 09:30:58
2 I am pleased to provide 09:31:00
3 a quotation for pre-REA 09:31:01
4 planning services and 09:31:04
5 coordination with regulatory 09:31:04
6 agencies to define the scope 09:31:07
7 of the work for the REA as it 09:31:09
8 applies to offshore wind 09:31:11
9 development." 09:31:12
10 And it continues: 09:31:13
11 "It is anticipated that the 09:31:14
12 scope of this task will be as 09:31:15
13 follows: Research existing 09:31:16
14 study requirements for 09:31:18
15 offshore wind developments 09:31:19
16 and other jurisdictions." 09:31:20
17 By "other jurisdictions" would you 09:31:23
18 have any idea what she meant? 09:31:25
19 A. I don't know what she meant, but 09:31:28
20 I think she meant Europe. 09:31:29
21 Q. Okay. 09:31:30
22 "Preparation of a high-level 09:31:31
23 project scoping document for 09:31:33
24 use during discussions with 09:31:35
25 provincial and federal 09:31:37

Page 32

1 agencies; convene the 09:31:38
2 proposed agency working group 09:31:42
3 to discuss study 09:31:44
4 requirements; and then 09:31:45
5 finally prepare study 09:31:47
6 requirements based on agency 09:31:49
7 working group to inform the 09:31:50
8 REA field study 09:31:52
9 requirements." [As read] 09:31:53
10 Do you see all that? 09:31:53
11 A. Uh-hmm. 09:31:54
12 Q. Okay. So what ORTECH was 09:31:55
13 proposing here was to study the requirements for 09:31:58
14 offshore wind, including in other jurisdictions, 09:32:01
15 right, so possibly Europe, in order to come up with 09:32:04
16 the requirements for what Ontario needed to adopt; 09:32:08
17 is that right? 09:32:11
18 A. That's correct. And I believe 09:32:12
19 that to be very consistent with that Section 12 that 09:32:15
20 you referred to earlier. 09:32:17
21 Q. Okay. 09:32:19
22 A. Section 12 of REA that outlines 09:32:20
23 the process for a wind facilities report. 09:32:23
24 Q. So that Section 12 needed the 09:32:25
25 technical guidance or study requirements to direct 09:32:28

Page 34

1 get their validation or input to see if it's 09:33:41
2 reasonable. 09:33:44
3 So I believe the context of this 09:33:45
4 document, this is right after the FIT contract was 09:33:47
5 awarded, we'd just been sort of reengaged, because 09:33:49
6 it was fairly quiet between the time Windstream 09:33:53
7 submitted the FIT contract and Windstream waited for 09:33:56
8 the contract results, so this is shortly after we've 09:34:00
9 reengaged Windstream, just received the contract 09:34:02
10 offer, we are reengaging in the regulatory process. 09:34:05
11 One of the items we identified, and that Leah, who 09:34:08
12 was a mid-level scientist with us at the time, 09:34:10
13 identified is that for the REA process, we need to 09:34:13
14 define the study scope for that section on the Wind 09:34:18
15 Facilities Report, although she doesn't mention it 09:34:22
16 directly, I think that's what she's talking about. 09:34:24
17 Q. Section 12 of Table 1. I keep 09:34:27
18 calling it Table 12, and I don't mean to be. It's 09:34:29
19 my mistake. 09:34:32
20 A. Yes. 09:34:32
21 Q. But Section 12 of Table 1, right, 09:34:33
22 so the record is clear? 09:34:34
23 A. Right. And so what she's using 09:34:37
24 here is the approach we normally use to do 09:34:40
25 an environment assessment where we have to establish 09:34:43

Page 33

1 proponents in order to know what it is they needed 09:32:34
2 to or how they needed to satisfy an REA; would that 09:32:37
3 be fair? 09:32:43
4 A. Let me phrase it a little 09:32:44
5 differently. 09:32:45
6 Q. Okay. 09:32:46
7 A. Section 12 outlines a general set 09:32:48
8 of -- an approach for how to deal with environmental 09:32:51
9 assessment, an approach that is -- we were very 09:32:55
10 familiar with and is very consistent with the way we 09:32:58
11 normally do environmental assessment, which really 09:33:00
12 starts with defining the scope in terms of reference 09:33:04
13 of the assessment. 09:33:06
14 So when we do that, we start with what 09:33:08
15 is at hand. What is at hand in -- that's helpful is 09:33:10
16 precedents in Ontario. So where we have done 09:33:14
17 similar projects in Ontario, we look at what was 09:33:18
18 included in the environmental assessment, how it was 09:33:20
19 undertaken and how it was done. And we then use 09:33:23
20 that as a starting point. 09:33:25
21 We then take that scope of framework 09:33:27
22 that we believe is a reasonable study undertaken for 09:33:29
23 an environmental assessment, we take that to the 09:33:32
24 regulators, and we usually have meetings with them 09:33:34
25 to discuss the scope that we are proposing, and to 09:33:37

Page 35

1 study methodology. 09:34:45
2 And the reason that's important is so 09:34:46
3 for the setback, for example, that you mentioned. 09:34:50
4 We know that in the absence of a setback 09:34:52
5 requirement, we need to run a model. Scientific 09:34:54
6 models have assumptions, so what we typically do is 09:34:56
7 meet with regulators and say "which model would you 09:35:00
8 like us to use? Which assumptions would you like us 09:35:02
9 to use?" 09:35:05
10 So we talk about the approach, and we 09:35:06
11 lay out the scope and say the issues at hand for 09:35:08
12 an offshore wind facilities include, among other 09:35:10
13 things, noise, possibly drinking water intake, so 09:35:13
14 other features that are in the area, setbacks from 09:35:17
15 wetlands and habitat areas, and we set that out in 09:35:21
16 the scope, in the kind of scope that she's proposing 09:35:24
17 here, which is sort of a high-level scope of what 09:35:27
18 are we going to look at in terms of doing this REA 09:35:29
19 assessment? 09:35:31
20 We then take it to the regulators, we 09:35:32
21 have meetings, and we agree both on the scope as 09:35:34
22 well as on the exact model we are going to use, 09:35:36
23 basic assumptions we are going to use in the model, 09:35:39
24 and then we proceed to execute that. 09:35:41
25 And that is the piece that then 09:35:43

Page 36

1 replaces the specific guidance that at that time we 09:35:45
2 were still waiting for. 09:35:50
3 Q. Okay. And so the way you sort of 09:35:52
4 just described it, it is all very site specific. 09:35:55
5 The studies that you undertake are particular to 09:36:01
6 that site, but as we looked at in the policy notice, 09:36:03
7 in the EBR posting, MNR and MOE were working on 09:36:07
8 a coordinated approach, which would have applied 09:36:13
9 province-wide. You wouldn't disagree with that, 09:36:15
10 would you? 09:36:17
11 A. Yes, yes. 09:36:19
12 Q. And they're looking at setbacks or 09:36:20
13 prescriptions to apply across the board; isn't that 09:36:24
14 correct? 09:36:29
15 A. Well typically standards or 09:36:31
16 guidance documentation that's developed for Ontario 09:36:33
17 is applicable province-wide. 09:36:35
18 Q. Okay. Let's look at Tab 13 in 09:36:39
19 your binder, another confidential document, but 09:36:44
20 I don't plan on taking you to any of the 09:36:49
21 confidential information, so we can keep this 09:36:50
22 public. This for the record is R-0105, and it is 09:36:54
23 Ortech's project management plan that you put 09:36:58
24 together on May 10th, 2010. If you could flip to 09:37:01
25 page 11 of the document, please. 09:37:07

Page 38

1 process." 09:37:54
2 Do you see that? 09:37:55
3 A. Uh-hmm. 09:37:56
4 Q. Again, the guidelines that you are 09:37:56
5 referring to are in the nature of these study 09:37:58
6 requirements that you are talking about? 09:38:00
7 A. The detailed study requirements. 09:38:02
8 Q. The detailed -- 09:38:04
9 A. So I'm not talking about the 09:38:06
10 framework -- I don't think here we are talking about 09:38:07
11 the framework of REA, because we believe the 09:38:09
12 framework is firmly established. I think it was 09:38:11
13 established that, although traditionally permitting 09:38:13
14 was done on the Environmental Assessment Act, 09:38:16
15 permitting would not be done as approvals under the 09:38:18
16 Approval Act, but under that Act, the regulations 09:38:21
17 have been put out, which are the REA regulations. 09:38:23
18 Q. Uh-hmm. 09:38:26
19 A. But specific guidance for what 09:38:27
20 models to use, what setbacks to use for offshore 09:38:29
21 wind had not been published, so therefore we needed 09:38:31
22 to develop that, and I think that's what this speaks 09:38:34
23 to. 09:38:37
24 Q. Okay. And specifically, you use 09:38:37
25 the word "rule," so whether we are talking technical 09:38:40

Page 37

1 You advise there on the uncertain REA 09:37:16
2 permitting? 09:37:20
3 A. In section 333? 09:37:20
4 Q. Yes. So you write that: 09:37:24
5 "REA permitting is new and 09:37:26
6 replaces the provincial 09:37:27
7 environmental assessment 09:37:29
8 process." 09:37:31
9 And you state that: 09:37:32
10 "The regulatory agencies do 09:37:32
11 not have well-established 09:37:34
12 guidelines for offshore 09:37:35
13 projects adding to the 09:37:35
14 uncertainty to the REA 09:37:38
15 process." 09:37:39
16 Do you see that? 09:37:39
17 A. Yes. 09:37:40
18 Q. And if you flip the page and go to 09:37:40
19 the bottom of page 12, the last sentence reads: 09:37:42
20 "Unfortunately, many of the 09:37:44
21 rules governing offshore 09:37:47
22 projects have yet to be 09:37:49
23 written. As such, the 09:37:50
24 projects and the project team 09:37:51
25 will be part of that 09:37:53

Page 39

1 guidance or studies, you viewed them as rules, 09:38:45
2 benchmarks against which a project shall be 09:38:48
3 assessed; is that fair? 09:38:51
4 A. The different levels of guidance 09:38:52
5 information, we respect all the guidance information 09:38:56
6 government publishes, whether it is published as 09:38:58
7 a policy, a procedure, as a guidance document, or as 09:39:00
8 a technical document, because we know it reflects 09:39:04
9 the intent of where everybody wants to go. 09:39:06
10 The environmental assessment process 09:39:09
11 is a consultation-based process. So we treat 09:39:10
12 everything with a lot of respect, so whether it's 09:39:15
13 published as a regulation or published as something 09:39:19
14 else, we know that's where everybody wants to go, so 09:39:21
15 we try to accommodate that. 09:39:26
16 So if somebody says in a guidance 09:39:27
17 document "the preferred model is," or "acceptable 09:39:29
18 models are" or the consultant may use this or that, 09:39:32
19 we try to follow those, simply because it makes the 09:39:37
20 consultation process with regulatory agencies 09:39:41
21 easier. 09:39:45
22 The word "rule" is -- specifically 09:39:46
23 applies, in my mind, to the regulations. The rest 09:39:49
24 of it is mostly guidance. Some of the stuff that's 09:39:54
25 in government policy we interpret as "rules." Those 09:39:57

Page 40

1 are ministerial policies issued and signed off by a 09:40:01
2 minister. 09:40:05
3 Some of the guidance documents 09:40:06
4 technically are not rules, they are guidance -- 09:40:07
5 Q. I see. 09:40:10
6 A. -- but in a broad sense of the 09:40:10
7 word, it is all part of the framework that we try to 09:40:11
8 do the permitting under. 09:40:14
9 Q. And it's these rules not being 09:40:15
10 written that create the uncertainty, as you are 09:40:17
11 advising Windstream? 09:40:22
12 A. Yes. As I outlined, it requires 09:40:27
13 us to consult with government where otherwise we 09:40:29
14 would simply go by the book. So for an on-shore 09:40:32
15 wind facility, we would not consult on that aspect. 09:40:35
16 We would look at the standard setback of 550 metres 09:40:37
17 and proceed with the work. 09:40:40
18 Here there is some uncertainty with 09:40:42
19 respect to exactly what the government is looking 09:40:43
20 for, and how we're supposed to do that work, and so 09:40:46
21 consultation would be required, and that's what this 09:40:50
22 refers to. 09:40:52
23 I wonder if I could just make 09:40:53
24 a comment about the transition from the 09:40:54
25 Environmental Assessment Act to the 09:40:56

Page 42

1 years, several decades. 09:42:05
2 The Environmental Protection Act is 09:42:08
3 not about whether a facility should be built, it is 09:42:10
4 how a facility should be built, and how the 09:42:17
5 permitting should be done. 09:42:19
6 So what we have typically seen 09:42:20
7 historically in the Environmental Protection Act is 09:42:21
8 a combination of the Environmental Protection Act, 09:42:23
9 relevant regulations and specific standards, such as 09:42:26
10 the setbacks you are referring to. 09:42:29
11 So, in my view, the 09:42:31
12 Environmental Protection Act can be very helpful 09:42:33
13 because it provides -- it doesn't really ask the 09:42:37
14 question: Should a facility be built? It pretty 09:42:40
15 much takes for granted it will be built. It says if 09:42:44
16 we build it, what are the reasonable things that we 09:42:47
17 can do to protect the environment? Including 09:42:51
18 setback distances, including emission limits, 09:42:53
19 including noise limits, including all those things. 09:42:54
20 And I think it's in that context that 09:42:58
21 we move to the Environmental Protection Act. But 09:43:00
22 having said that, the Act was brand new, and some of 09:43:03
23 the specific guidelines, for wind facilities in 09:43:06
24 specific, hadn't been developed, which means we need 09:43:11
25 to fill that in the way we've always done it for 09:43:13

Page 41

1 Environmental Protection Act. 09:41:00
2 Historically, new projects have, and 09:41:03
3 except for renewable facilities, continue to be 09:41:10
4 permitted under the Environmental Assessment Act. 09:41:11
5 The Environment Assessment act is 09:41:14
6 a very open-ended process. It essentially sets out 09:41:16
7 a framework for how to do consultation, how to 09:41:20
8 do environmental assessment, and how to arrive at 09:41:23
9 conclusions as to whether a project has significant 09:41:26
10 or does not have significant impact, and allows you 09:41:29
11 mitigation -- approaches for mitigating impacts such 09:41:32
12 that the project might have. 09:41:34
13 Q. Is it fair that it is very 09:41:36
14 proponent-driven, is that ... 09:41:38
15 A. It can be, not necessarily. It 09:41:40
16 depends how the environment assessment -- it 09:41:42
17 depends whether you are under Class EA or under 09:41:44
18 the overall Act, but, yes, it can be very proponent 09:41:47
19 driven. But most processes these days are very 09:41:50
20 proponent-driven. 09:41:53
21 But the point I'm trying to make is 09:41:54
22 that we shifted from the Environmental Assessment 09:41:55
23 Act in 2009 to the Environmental Protection Act. 09:41:58
24 The Protection Act has been in place 09:42:00
25 for a very long time. We've used it for many, many 09:42:02

Page 43

1 other projects, which is with the site-specific 09:43:17
2 assessment outlined in that item 12 of the Wind 09:43:20
3 Facilities Report. 09:43:23
4 Q. Okay. If I could get you to turn 09:43:25
5 to Tab 24, please. This is an email that you sent 09:43:27
6 to Mr. Baines on May 13th, and for the record, it's 09:43:36
7 C-0270. 09:43:40
8 A. Email on April 21st? 09:43:45
9 Q. It's actually the -- so the next 09:43:54
10 email down from that is May 25th; do you see that? 09:44:10
11 And the next email down from that is May 21st; do 09:44:17
12 you see that? 09:44:22
13 A. So these are sort of out of date 09:44:35
14 order, are they? 09:44:37
15 Q. Yes, it doesn't follow the 09:44:38
16 normal -- usually email chains run chronologically 09:44:39
17 back to front, but this certainly doesn't so -- 09:44:47
18 A. So the one we are talking about is 09:44:48
19 May 21st from me to Ian Baines? 09:44:50
20 Q. Right, right. And look 09:44:54
21 specifically at that second bullet. It says there: 09:44:55
22 "If we don't get some 09:44:58
23 indication of where the 09:44:59
24 government is on permitting 09:45:00
25 guidelines, we cannot assess 09:45:01

Page 44

1 the permitting risk related 09:45:02
2 to signing the contract." 09:45:05
3 [As read] 09:45:07
4 Do you remember saying that? 09:45:07
5 A. Yes. Yeah, I see this email. 09:45:11
6 Yes, I did say that. If I can just reconstruct the 09:45:13
7 context here a little bit for myself. 09:45:19
8 Q. Yes. 09:45:31
9 A. So this was specifically related 09:45:32
10 to another email from Leah that is also in this set. 09:45:34
11 Q. Right. And I think that one is 09:45:37
12 actually behind, so now you can keep flipping 09:45:38
13 forwards, but you will see the email -- this same 09:45:43
14 email goes on, if you turn the next page, it begins 09:45:47
15 "Paul called," this is your colleague, Paul? 09:45:49
16 A. So, Paul is one of our senior 09:45:52
17 engineers, and Leah was a mid-level engineer working 09:45:54
18 on this. 09:45:58
19 Q. Okay. 09:45:59
20 A. Leah had made several attempts to 09:45:59
21 contact regulatory agency folks kind of at the 09:46:02
22 mid-level. That process was not working as well as 09:46:06
23 we wanted it to, and I believe the context to that 09:46:08
24 was, as you'd pointed out, we didn't have a Wind 09:46:13
25 Facilities Report documentation issued. So Leah was 09:46:18

Page 46

1 And what my sort of take-back from 09:47:31
2 that was is that when I spoke to Pearl Ing, we were 09:47:33
3 getting a lot of attention, and she was being very 09:47:38
4 helpful, but maybe because at a Director's level she 09:47:43
5 was able to engage better than somebody at a 09:47:52
6 mid-level who hadn't been instructed as to what 09:47:54
7 position to take, or what the information was. 09:47:56
8 So I think that was correct, that Leah 09:47:57
9 was having difficulties with getting responses. We 09:48:01
10 brought that to the project team and we then acted 09:48:04
11 on that by following up with Directors and senior 09:48:06
12 staff. 09:48:07
13 Q. But if you stay in that same 09:48:08
14 email, so at the top of the next page, it says 09:48:10
15 Paul -- is that Paul Complin, your colleague at 09:48:12
16 ORTECH? 09:48:15
17 A. Paul is a former colleague, yes. 09:48:16
18 Q. A former colleague. And so he 09:48:18
19 called and reached out to Doris Dumais who confirmed 09:48:20
20 that she was aware of the same issues and actively 09:48:23
21 involved in creating REA guidelines for offshore; do 09:48:26
22 you see? 09:48:29
23 It doesn't suggest she wasn't involved 09:48:31
24 in any way or not -- 09:48:32
25 A. No, no, it reads that it was clear 09:48:34

Page 45

1 making inquiries at the mid-level into the 09:46:23
2 bureaucracy saying "what about this stuff? Where 09:46:26
3 are we with this?" And she wasn't getting 09:46:30
4 responses. 09:46:32
5 I believe the reason she wasn't 09:46:34
6 getting the responses at that level is because that 09:46:38
7 level didn't know what the answer was. And we get 09:46:40
8 that a lot if we talk to regulators and they don't 09:46:41
9 know what the answer is, rather than getting 09:46:44
10 themselves in hot water, they don't respond. So she 09:46:46
11 had unfortunately the experience that she wasn't 09:46:49
12 getting the answers to her questions, which then led 09:46:49
13 to the email from Paul to me saying -- or from Leah 09:46:52
14 to -- from Leah saying that she was having trouble 09:46:56
15 making contact. 09:46:59
16 And then we took that up the chain and 09:47:00
17 brought it to the project team and said "we need 09:47:03
18 some answers on some of these issues," but at the 09:47:07
19 same time we had other stuff going on. 09:47:10
20 So if you look at that other email 09:47:12
21 that I wrote to Pearl Ing right around that time on 09:47:14
22 May 25th, so the fact that Leah wasn't responses 09:47:18
23 from the mid-level bureaucracy prompted me to write 09:47:21
24 an email on May 25th to one of the director at MEI 09:47:25
25 saying we need attention on this. 09:47:28

Page 47

1 to me that Doris had been briefed on the issues 09:48:38
2 around the signing of the WI Shoals OPG contract. 09:48:40
3 Q. And then you write; 09:48:48
4 "I have learnt that we have 09:48:49
5 been heard but deliberately 09:48:50
6 ignored while the government 09:48:51
7 is trying to create guidance 09:48:52
8 for us." [As read] 09:48:55
9 A. Where are you reading from now? 09:48:56
10 Q. I'm just reading down? 09:48:58
11 MR. BISHOP: They may be two different 09:49:00
12 places on the emails. 09:49:01
13 THE WITNESS: Are you in Paul's email? 09:49:03
14 BY MR. NEUFELD: 09:49:04
15 Q. I'm just going to follow the email 09:49:05
16 and then we'll all be on the same page here. It is 09:49:06
17 the very next sentence: 09:49:10
18 "In summary, I learnt that we 09:49:11
19 have been heard but 09:49:13
20 deliberately ignored while 09:49:14
21 the government is trying to 09:49:16
22 create guidance for us." 09:49:17
23 [As read] 09:49:20
24 A. I'm sorry, I'm in the wrong -- 09:49:20
25 MR. BISHOP: It's the fourth page. 09:49:22

1 BY MR. NEUFELD: 09:49:23
2 Q. Yeah. 09:49:23
3 A. Sorry, my email to Ian? 09:49:30
4 Q. I'm sorry, the same email. I know 09:49:32
5 you explained that -- 09:49:35
6 A. I was just in an email to Paul, 09:49:36
7 just below that, sorry. 09:49:37
8 Q. You jumped to the punchline, which 09:49:37
9 is fine. 09:49:39
10 A. So would you please repeat your 09:49:51
11 question? 09:49:52
12 Q. Well, I just wanted you to -- and 09:49:53
13 you see now that: 09:49:55
14 "In summary, I learnt that we 09:49:56
15 have been heard but 09:49:57
16 deliberately ignored while 09:49:58
17 the government is trying to 09:50:00
18 create guidance for us. This 09:50:01
19 is very positive, but I am 09:50:03
20 concerned that we are not 09:50:04
21 involved in a dialogue or 09:50:05
22 draft review." 09:50:07
23 [As read] 09:50:09
24 Right -- 09:50:09
25 A. Uh-hmm. 09:50:09

1 guidance. 09:51:22
2 We know that we like to comply with 09:51:23
3 guidance, so we try to be as informed as we can be 09:51:26
4 on what that guidance is going to be, and we 09:51:30
5 sometimes try to anticipate what that guidance is 09:51:33
6 trying to be so that when it comes out, we already 09:51:35
7 comply with it. 09:51:37
8 The best way to respond to it is to be 09:51:38
9 ahead of the curve, and in this case they didn't 09:51:41
10 give us the opportunity to know what they were 09:51:43
11 working on, so we knew they were working on 09:51:43
12 something, but they were working in a vacuum. 09:51:47
13 Q. And that fits with the next 09:51:50
14 sentence because you say: 09:51:51
15 "This is positive, but I'm 09:51:52
16 concerned that we are not 09:51:54
17 involved in the dialogue or 09:51:55
18 draft review." 09:51:56
19 Right? 09:51:57
20 A. Right. 09:51:58
21 Q. So by that comment, you had the 09:51:58
22 impression that they were writing these rules for 09:52:00
23 Windstream or the Windstream project, not for the 09:52:02
24 province? 09:52:06
25 A. No, no, my understanding is if 09:52:06

1 Q. -- you see that? So it is not 09:50:09
2 that -- you'd insinuated earlier that you weren't 09:50:12
3 getting anywhere, but you believed at this time that 09:50:14
4 the folks at MOE were working on this? 09:50:17
5 A. Yeah, we got indications from both 09:50:20
6 Pearl Ing in the other email, and from Doris Dumais, 09:50:22
7 through Paul, that, absolutely, they were working -- 09:50:24
8 I think one of the words is "feverishly on it" is 09:50:27
9 a word that -- 09:50:32
10 Q. Now were you under the impression 09:50:33
11 that the government was creating offshore wind 09:50:35
12 requirements for this project? 09:50:37
13 A. It -- yes, absolutely, I was 09:50:39
14 expecting that they would. What I didn't know is -- 09:50:41
15 what I didn't know is whether they would 09:50:46
16 retroactively apply it to the project or not, so 09:50:48
17 we -- we knew they were working on stuff because 09:50:52
18 they clearly communicated on those two occasions 09:50:55
19 that they were working on stuff. You have to 09:50:57
20 understand we had a project that had just been 09:51:01
21 granted a FIT contract -- well, offered a FIT 09:51:07
22 contract, hadn't been signed yet at that time, it 09:51:10
23 had just been offered a FIT contract, and we are in 09:51:12
24 discussions with the regulatory agencies and we know 09:51:17
25 that they are working on providing specific 09:51:19

1 they were working on anything, they were working on 09:52:08
2 the province-wide, because we did have -- there was 09:52:10
3 a pathway on REA for site-specific assessment under 09:52:13
4 that Section 12 Wind Facilities Report. 09:52:17
5 It would have been my view that, if 09:52:20
6 they were working on rules, those would have been 09:52:23
7 province-wide rules. 09:52:25
8 Q. All right. And you hadn't applied 09:52:27
9 for a REA yet, so there isn't a question here of 09:52:28
10 would it retroactively apply to our project, 09:52:31
11 correct? 09:52:34
12 A. But the FIT contract had been 09:52:35
13 issued, so I think the context is that REA had been 09:52:37
14 ruled out the year before. The bid was made, based 09:52:39
15 on what came out in September under the REA program, 09:52:43
16 so REA rolled out the regulations in the fall of -- 09:52:46
17 well, during 2007, and definitely before the FIT 09:52:50
18 contract submissions. 09:52:56
19 Based on that new framework, projects 09:52:58
20 were proposed, not just Windstream, but many 09:53:01
21 projects were proposed and bid into the FIT program 09:53:04
22 with a certain expectation of a certain framework, 09:53:07
23 certain rules setting out that now we're going to 09:53:11
24 use REA. 09:53:13
25 Now that all was very positive, 09:53:14

Page 52

1 because REA was brought in under the auspices that 09:53:16
2 it was the better, faster process. It was a 09:53:19
3 process that was not about the Environmental 09:53:22
4 Assessment Act, which is about should we build 09:53:23
5 a facility? It is about how do we build facilities? 09:53:26
6 And then a FIT contract was offered in 09:53:29
7 April -- April 8th, was it, that a FIT contract was 09:53:31
8 offered to Windstream? So in that context we find 09:53:34
9 out right around that time that they're doing more 09:53:37
10 work on Wind Facilities Report issue. 09:53:40
11 Of course we're pretty interested in 09:53:45
12 that at that time -- 09:53:46
13 Q. But, as we covered, it was already 09:53:47
14 back in September of 2009 you knew they were doing 09:53:49
15 more work on it. I mean that's -- you said you 09:53:52
16 reviewed that document very closely, the policy 09:53:54
17 decision, and that they were collaborating on new 09:53:56
18 rules? 09:53:58
19 A. At that time, yes. 09:53:59
20 Q. And I'm just a little confused, 09:53:59
21 because you said you've -- you haven't applied for 09:54:00
22 an REA, but you do have a FIT contract. You are not 09:54:04
23 suggesting that the rules that would be adopted 09:54:07
24 under the REA wouldn't apply to your project, would 09:54:11
25

Page 54

1 Q. And as you said, it was the REA 09:55:30
2 that was underway? 09:55:32
3 A. It was the -- well, the REA was 09:55:33
4 underway, yes. 09:55:35
5 Q. Right. 09:55:39
6 A. But the whole emphasis was trying 09:55:39
7 to get this project done. The drive was to get all 09:55:40
8 the documentation on the table, so of course we're 09:55:43
9 concerned about issues that they may be working on 09:55:45
10 that they haven't put on the table yet, and we're 09:55:48
11 concerned about not having dialogue, as I said in 09:55:51
12 that email. 09:55:53
13 Q. Okay, thank you. Now, I'd also 09:55:53
14 just like to come back for a second to the way you 09:56:04
15 had -- you helpfully sort of described the context 09:56:06
16 around the EA and the REA, and I was left with the 09:56:08
17 impression that the REA is nothing but a rubber 09:56:13
18 stamp, that you would get it? 09:56:19
19 A. Sorry, that the REA -- 09:56:20
20 Q. That REA. 09:56:21
21 A. No, not at all, I didn't say that. 09:56:22
22 What I am saying is that the 09:56:30
23 Environmental Protection Act is mostly about 09:56:31
24 regulating how a facilities operated and built, and 09:56:34
25 to that end, the Environmental Protection Act is 09:56:40

Page 53

1 they? 09:54:14
2 A. So, first, of course all the rules 09:54:17
3 would apply. In land development, when new rules 09:54:19
4 come out, they typically don't apply retroactively, 09:54:24
5 they apply going forward. So for projects already 09:54:27
6 underway, they would, in -- under the Planning Act, 09:54:29
7 they don't apply retroactively. 09:54:35
8 It doesn't mean it has to be that way. 09:54:38
9 The government has a lot of latitude. They can do 09:54:40
10 it any which way. 09:54:42
11 Q. Okay. 09:54:44
12 A. But the framework was, we had the 09:54:44
13 REA regulations set out, we had the FIT program 09:54:46
14 going on. The two in my mind went hand in hand, as 09:54:49
15 did, to a lesser degree, the site release program 09:54:52
16 over at MNR. We had a lot of coordination between 09:54:56
17 MEI, Ministry of Energy, MNR and MOE. 09:54:59
18 They are making a concerted effort to 09:55:05
19 roll-out a program that the government was very 09:55:08
20 excited about, and wanted to build all these 09:55:10
21 facilities, and in that context, there was a lot 09:55:12
22 going on in terms of new stuff coming out, you know, 09:55:18
23 new stuff coming out, you know, right before the FIT 09:55:22
24 contract submissions in November, we got the new REA 09:55:25
25 rules, so there was a lot going on obviously -- 09:55:28

Page 55

1 very closely related to standards, it is very 09:56:43
2 closely related to a pragmatic way of doing things. 09:56:46
3 We are have done literally in our shop 09:56:49
4 over the years hundreds of approvals under the 09:56:52
5 Environmental Protection Act. And I would never say 09:56:55
6 that an approval is a done deal, but the success 09:56:58
7 rate is very high. 09:57:02
8 So if you look back, you know, 09:57:04
9 obviously REA was new, we didn't know what the 09:57:06
10 success rate would be, because it was a new program, 09:57:09
11 but we knew what the success rate was under the 09:57:12
12 Environmental Protection Act, and it was extremely 09:57:15
13 high. 09:57:18
14 I would never take a governmental 09:57:19
15 approval for granted. 09:57:20
16 Q. Okay. If you could turn to Tab 2 09:57:21
17 in your binder, please. This, for the record, is 09:57:24
18 R-0528, and it's an email exchange of June 7, 2010, 09:57:27
19 between yourself, Windstream's counsel, 09:57:32
20 Mr Chamberlain, and Mr. -- or Ian and Nancy Baines. 09:57:35
21 It's Tab 2. 09:57:48
22 Have a look at the third paragraph on 09:57:53
23 the first page there, please. It notes that you've 09:57:54
24 also reviewed critical timing issues for the REA 09:57:59
25 fieldwork. 09:58:02

Page 56

1 Do you see that? 09:58:03
2 A. Yes, I see that. 09:58:12
3 Q. And do you recall writing that you 09:58:13
4 desperately need input from the scientists at MNR, 09:58:16
5 that you may need to bring in an REA consultant; 09:58:19
6 i.e., to award a contract? 09:58:21
7 A. Yeah, I think I very much said 09:58:25
8 that. I just want to give a little bit of context. 09:58:28
9 So this is June 7th of 2010. At that 09:58:30
10 time the FIT contract had been offered with 09:58:33
11 a 48-month timeline. The project plan you referred 09:58:35
12 to earlier, which is in this documentation, outlined 09:58:39
13 that 48-months plan, and we said that's a tight 09:58:42
14 timeline. 09:58:45
15 To meet that 4-year timeline that was 09:58:49
16 in place prior to it being extended to five years 09:58:52
17 meant it was really important to get fieldwork off 09:58:56
18 the ground in the summer of 2010. So it is June; 09:58:58
19 it's prime time for fieldwork. We are sitting there 09:59:02
20 saying we need to get crews out in the field to do 09:59:04
21 fieldwork, we have only got four years to complete 09:59:06
22 the project. 09:59:08
23 The way this played out in the end was 09:59:08
24 that when the contract was signed later in August, 09:59:10
25 a couple of months later, it was actually amended to 09:59:14

Page 57

1 five years, which allowed us to do the fieldwork 09:59:16
2 that was contemplated here in this email. 09:59:19
3 We ended up planning for 2011, taking 09:59:21
4 the pressure off the issues that we were desperate 09:59:25
5 about in June 7th, 2010. 09:59:30
6 Q. Okay, we'll come back to the 2011. 09:59:32
7 We will just sort of proceed chronologically I think 09:59:35
8 is the probably I think the easiest way for 09:59:39
9 everybody to follow. 09:59:40
10 At Tab 23, you will find document 09:59:41
11 number R-0118, and this is the June 25, 2010 policy 09:59:44
12 notice that MOE publishes. I have no doubt you 09:59:54
13 recognize this document. 09:59:58
14 MS. SEERS: Pardon me, Mr. Neufeld. 10:00:18
15 If you would repeat the tab number you are referring 10:00:20
16 to. 10:00:22
17 BY MR. NEUFELD: 10:00:22
18 Q. Twenty-three. I think we've all 10:00:23
19 got this one memorized by now -- 10:00:23
20 A. So this, I believe, was the 10:00:26
21 document that came out at the same time as the 10:00:27
22 consultation posting on the EBR for the proposed 10:00:29
23 five-kilometre setback. 10:00:33
24 Q. Right. If you look at the second 10:00:34
25 full paragraph there, please, it reads: 10:00:38

Page 58

1 "Partner Ministries are 10:00:43
2 working together to provide 10:00:44
3 greater certainty and clarity 10:00:45
4 on offshore wind 10:00:46
5 requirements. The Ontario 10:00:47
6 Government is proposing 10:00:49
7 an approach and is seeking 10:00:50
8 input from interested members 10:00:52
9 of the public early in the 10:00:54
10 process to inform the work 10:00:56
11 that will be completed to 10:00:58
12 finalize the approach and the 10:00:59
13 offshore wind specific 10:01:01
14 requirements under the REA 10:01:03
15 Regulation. This approach 10:01:04
16 will also be supplemented by 10:01:07
17 the outcome of the research 10:01:09
18 underway by MOE, MNR, Tourism 10:01:10
19 and Culture. It will be 10:01:15
20 subject to the subsequent 10:01:17
21 environmental registry 10:01:19
22 postings that will outline 10:01:21
23 requirements for offshore 10:01:23
24 wind development as proposed 10:01:24
25 amendments to the 10:01:27

Page 59

1 regulation." 10:01:27
2 [As read] 10:01:29
3 Do you see that? 10:01:29
4 A. Uh-hmm. 10:01:30
5 Q. So by the language of the EBR 10:01:30
6 posting, it doesn't sound -- it doesn't sound to me, 10:01:32
7 but please tell me if I'm wrong, but it doesn't 10:01:35
8 sound to me like Ontario is just adopting technical 10:01:37
9 study requirements here; they are looking at 10:01:41
10 finalizing the approach to offshore wind with 10:01:43
11 specific requirements under the REA. Isn't that 10:01:46
12 right? 10:01:48
13 A. Well, I would define that -- my 10:01:49
14 interpretation of what was going on June 25th, so 10:01:52
15 on -- prior to June 25th, if you follow some of the 10:01:56
16 emails that were going back and forth among the 10:02:00
17 project team, we often referred to it that the -- we 10:02:02
18 had been told that the government on June 25th was 10:02:07
19 coming out with rules. 10:02:09
20 When June 25th actually arrived, and 10:02:14
21 we saw these documents, what the government actually 10:02:17
22 came out with was a consultation process, which 10:02:19
23 actually gave me significant amount of comfort, 10:02:22
24 because what I was afraid of prior to June 25th was 10:02:24
25 that the government would make some -- set out some 10:02:28

1 technical specifications or set out requirements 10:02:32
2 without getting industry input, without knowing if 10:02:34
3 that the things they were asking for were doable or 10:02:36
4 not doable. 10:02:39
5 What they finally did come out with on 10:02:40
6 June 25th was actually very reasonable; they came 10:02:43
7 out with a consultation process. They also came out 10:02:45
8 with communication at the time saying -- I'd have to 10:02:48
9 go back and look at more documentation, but it was 10:02:50
10 there was a timeframe to this consultation process, 10:02:52
11 there was a timeframe that I think by September of 10:02:55
12 2010 they will conclude this consultation process. 10:02:58
13 Q. Right. 10:03:01
14 A. So I actually viewed this 10:03:01
15 consultation process as fairly positively. I think 10:03:03
16 this word "approach" is not -- not really -- doesn't 10:03:05
17 mean high-level approach, I don't believe that. 10:03:13
18 To me, the site release policy was in 10:03:16
19 place. We had the REA regulation in place. What 10:03:18
20 was missing at the time was technical guidance. So, 10:03:25
21 you'd have to ask whoever wrote this what they meant 10:03:29
22 to say. 10:03:31
23 To me, this read as we're working on 10:03:32
24 the technical guidance both at MNR, and that's what 10:03:35
25 the MNR posting was about, as well as at MOE, and 10:03:37

1 Q. So, this is how laws are made, 10:04:46
2 through this process of consultation in our province 10:04:49
3 in particular, correct? You've seen this before 10:04:53
4 this? 10:04:54
5 A. This is our process. 10:04:55
6 Q. And consulting truly means 10:04:57
7 consulting, does it not? I mean you're not -- they 10:05:00
8 weren't simply putting up a rule that, irrespective 10:05:04
9 of what people said, they were going to adopt? 10:05:09
10 Wouldn't that -- wouldn't you agree 10:05:12
11 with that? 10:05:13
12 A. I'm no environmental lawyer. I'm 10:05:17
13 an environmental practitioner from an engineering 10:05:19
14 side, so pardon my simplistic views of the world, 10:05:22
15 but I believe the government has certain authority 10:05:27
16 to put certain rules on the EBR if it chooses to. 10:05:29
17 The more common approach that we 10:05:35
18 follow in Ontario is that the government does 10:05:36
19 a consultation process just like this prior to 10:05:38
20 rolling out the rules, and it affords everybody 10:05:40
21 input and so -- 10:05:46
22 Q. Including all the NIMBYs? 10:05:48
23 A. And industry, yeah. 10:05:50
24 Q. And industry? 10:05:51
25 A. It affords everybody 10:05:52

1 MOE was looking at specifically issues relevant to 10:03:40
2 MOE, including a noise setback of the 10:03:43
3 five kilometres, which I thought was overkill, but 10:03:45
4 a five-kilometre noise setback. And MNR was looking 10:03:48
5 at other requirements. MNR is responsible for 10:03:52
6 certain aspects of the Natural Heritage, and MOE is 10:03:56
7 responsible for other pieces. MOE is responsible 10:03:59
8 for noise, MNR is responsible for the fish, and, to 10:04:01
9 me, this was MNR's working on specific research and 10:04:03
10 guidance related to the stuff that's of interest to 10:04:08
11 MNR -- 10:04:12
12 Q. Not an amendment to the regulation 10:04:13
13 or ... 10:04:16
14 A. I can't tell you at the time if 10:04:20
15 I would have interpreted it as being an amendment. 10:04:21
16 I'd have to speculate sort of how I would have 10:04:24
17 thought they would have implemented it. 10:04:28
18 Q. Yes, and you'd be speculating. 10:04:30
19 A. Remember, under REA, which was the 10:04:31
20 one that we were most concerned about, they were 10:04:33
21 talking about the Wind Facilities Report. 10:04:35
22 Q. Uh-hmm. 10:04:37
23 A. And, in my mind, it was all about 10:04:38
24 providing more meat and more clarification on that 10:04:39
25 Section 12 related to the Wind Facilities Report. 10:04:42

1 an opportunity to contribute, and it also allows the 10:05:53
2 regulatory staff themselves to work on it and listen 10:05:56
3 to what people have to say, and that's what the 10:06:00
4 context of this document was. 10:06:03
5 Q. So, again, just to go back to that 10:06:14
6 paragraph, where it says that "It will outline 10:06:16
7 requirements for offshore wind development," you 10:06:18
8 just viewed that as the technical studies and 10:06:21
9 guidelines, you didn't -- even though it says "as 10:06:24
10 proposed amendments to the regulations"? 10:06:29
11 A. I think, as I was trying to say 10:06:32
12 before, as a practitioner, I'm not as a lawyer, 10:06:33
13 I don't try to distinguish necessarily between the 10:06:36
14 legal enforceability of the Act versus a regulation, 10:06:39
15 versus a standard, but if MNR were to come back and 10:06:42
16 tell me that they want to see a 120-metre setback 10:06:44
17 from wetlands, which they did for the on-shore wind, 10:06:47
18 I would respect that as a rule. 10:06:50
19 Q. Okay. 10:06:52
20 A. And, similarly, if MOE were to 10:06:54
21 come back after consultation process and say we want 10:06:55
22 an X-kilometre setback from noise receptors, we 10:07:00
23 would respect that. 10:07:03
24 Q. And the consultation process here 10:07:08
25 was much broader than noise, right? I mean if you 10:07:09

Page 64

1 turn to Tab 21 we'll find the discussion paper that 10:07:12
2 accompanies this EBR posting. Have you found that 10:07:15
3 there? 10:07:39
4 A. Uh-hmm. 10:07:39
5 Q. And if you could look at the third 10:07:40
6 paragraph on the first page it notes that: 10:07:40
7 "Feedback will inform our 10:07:44
8 work to more fully develop 10:07:46
9 the approach and offshore 10:07:48
10 wind specific-requirements 10:07:49
11 that will be articulated as 10:07:52
12 amendments to the REA. Once 10:07:54
13 fully developed, the proposed 10:07:54
14 policy and associated 10:07:54
15 regulatory amendments will be 10:07:54
16 the subject of a future 10:07:54
17 environmental registry 10:07:54
18 posting that will outline 10:07:54
19 requirements for offshore 10:07:54
20 wind developments as proposed 10:07:54
21 amendments to the 10:07:54
22 regulation." [as read] 10:07:56
23 You see all that? 10:08:09
24 A. Yes. 10:08:09
25 Q. So wasn't this an indication that 10:08:10

Page 66

1 shoreline and water's edge? May you can -- 10:09:00
2 Q. I don't want to get wet when 10:09:01
3 I walk in the water. 10:09:03
4 A. Okay, water's edge. 10:09:04
5 Q. At the top of page 2, you will see 10:09:06
6 those exact words, right? That's where it says: 10:09:07
7 "The proposed shoreline 10:09:11
8 exclusions will be delineated 10:09:12
9 as the area 5 kilometres from 10:09:14
10 the water's edge of the 10:09:15
11 Great Lakes." 10:09:17
12 [As read] 10:09:18
13 You see that? 10:09:18
14 A. Right. 10:09:19
15 Q. So, and, in sum, after getting -- 10:09:23
16 I know we talked about the uncertainty before, but 10:09:25
17 then this posting comes out -- your uncertainty 10:09:27
18 around the REA permitting process couldn't have been 10:09:31
19 mitigated or diminished after you've seen this 10:09:35
20 posting, could it have been? 10:09:37
21 A. No, obviously there was 10:09:42
22 uncertainty about the outcome of this process, but 10:09:44
23 it was a consultation process, so we saw this as 10:09:47
24 an opportunity to provide input, as is often done 10:09:48
25 with formulation of EBR postings, this consultation 10:09:53

Page 65

1 amendments are coming? I understand you are not 10:08:11
2 a lawyer, but this is a pretty clear sign, isn't it? 10:08:13
3 A. Yeah, and we would have respected 10:08:17
4 them whether they came out as standards or as an 10:08:18
5 amendment to the regulation. It wouldn't have 10:08:20
6 really -- I don't think it would have mattered to 10:08:22
7 us. 10:08:23
8 Q. And chief among them was this 10:08:23
9 proposal for this minimum shoreline exclusion of 10:08:25
10 five kilometres, correct? 10:08:27
11 A. That was the -- that was the core 10:08:28
12 of that consultation on the 25th, yes. 10:08:31
13 Q. Okay. Was it clear what that 10:08:33
14 meant, as proposed? I mean it wasn't finalized, 10:08:42
15 but -- 10:08:43
16 A. No, it was not clear because the 10:08:44
17 five-kilometre setback wasn't defined, what was 10:08:45
18 meant by "shoreline." 10:08:47
19 Q. But it doesn't use the word 10:08:48
20 "shoreline" there, it uses "from the water's 10:08:50
21 edge --" 10:08:54
22 A. Right. 10:08:55
23 Q. -- right? Isn't that pretty 10:08:55
24 clear? 10:08:57
25 A. Do you see a difference between 10:08:57

Page 67

1 in REA's industry would have had input to that 10:09:57
2 process and pointed out issues that we saw with the 10:10:00
3 application of that. 10:10:04
4 And I think the important part is it 10:10:07
5 was a consultation, and that's how we treated it. 10:10:10
6 Q. Okay, thank you. Now, if I could 10:10:12
7 take you to Tab 17, this is document C-0324, and 10:10:17
8 it's a -- this was a July 2010 ORTECH Wind Resource 10:10:23
9 Assessment Report that you conducted, and it was 10:10:30
10 prepared for the Windstream Wolf Island Project, 10:10:37
11 right? 10:10:38
12 Now this document is chockablock with 10:10:39
13 confidential information, so maybe it's just easiest 10:10:42
14 to go -- 10:10:42
15 Oh, we have a public version there, 10:10:43
16 perfect. 10:10:44
17 MS. NETTLETON: So, not ... 10:10:48
18 BY MR. NEUFELD: 10:10:50
19 Q. Let's leave it for now. It will 10:10:50
20 show up black on the screen, and if we have to refer 10:10:52
21 to the confidential information, then we can go 10:10:55
22 to... 10:10:56
23 So did you review this report? 10:10:58
24 A. Yes. 10:11:04
25 Q. If you could turn to page 62, 10:11:04

Page 68

1 please. You see there Figure 25? 10:11:06
2 A. Uh-hmm. 10:11:11
3 Q. I think we've got to go to 10:11:16
4 confidential mode. 10:11:18
5 I think the whole report is marked 10:11:19
6 "confidential." I think every single word in here 10:11:21
7 is confidential. 10:11:24
8 PRESIDENT: Yes, the whole thing will 10:11:28
9 be a black page, there's no -- 10:11:28
10 --- Confidential transcript begins 10:11:28
11 BY MR. NEUFELD: 10:11:39
12 Q. That's right, but it wouldn't be 10:11:39
13 very insightful. But you have it there before you, 10:11:40
14 right? 10:11:44
15 A. Yeah, I have the Figure 25. 10:11:44
16 Q. This figure illustrates the 10:11:54
17 turbine layout that ORTECH used in its analysis for 10:11:55
18 the Wind Resource Assessment Report, correct? And 10:11:58
19 it's laid out from five kilometres from the water's 10:12:01
20 edge, five kilometres from the shoreline, isn't it? 10:12:04
21 A. I believe it was. I'd have to 10:12:12
22 re-read the report. 10:12:13
23 Q. Well, if you flip back a page, to 10:12:15
24 61, you will see in the second paragraph there: 10:12:17
25 "A five-kilometre buffer was 10:12:20

Page 70

1 This is an updated assessment report? 10:13:31
2 A. Tab 18? 10:13:33
3 Q. Yes, it is dated March 7, 2011. 10:13:34
4 And on page 66 of that report, it is 10:13:37
5 Figure 27. It is the same thing, right? 10:13:39
6 A. Yes, it looks the same. 10:13:53
7 Q. So we have got a five-kilometre 10:13:54
8 setback again from the water's edge. Tab 26, which 10:13:55
9 is Exhibit C-0627. 10:13:59
10 Now this is your October 24th, 2011 10:14:03
11 report? 10:14:08
12 A. Sorry, say the tab again? 10:14:10
13 Q. It is Tab 26. 10:14:12
14 PRESIDENT: That tab doesn't seem 10:14:21
15 right now. 10:14:22
16 BY MR. NEUFELD: 10:14:23
17 Q. It is Tab 25 in your binder, I'm 10:14:24
18 sorry. 10:14:26
19 A. Referring to the emails? 10:14:28
20 Q. The Tab 25. 10:14:29
21 A. Oh, updated offshore wind. 10:14:34
22 Q. You see in there we didn't print 10:14:36
23 up the whole report, but we've got the figure, the 10:14:38
24 same layout there? 10:14:40
25 A. Uh-hmm. 10:14:42

Page 69

1 applied to all significant 10:12:21
2 land masses, such as Amherst 10:12:23
3 Island, Wolfe Island..." 10:12:25
4 Do you see that? 10:12:28
5 A. Yes. 10:12:28
6 Q. And then at page 7, we can take 10:12:31
7 you to other examples but it says on page 7 as well, 10:12:35
8 "five-kilometre shoreline setback," but you would 10:12:37
9 agree that this is five kilometres from the water's 10:12:43
10 edge? 10:12:44
11 A. It looks like the five-kilometre 10:12:45
12 setback layout as I've seen it before, yes. 10:12:46
13 Q. And it respects the contours -- 10:12:49
14 here -- is this non-confidential -- oh, we are in 10:12:51
15 the confidential section now. Very good. I was 10:12:55
16 a little panicked there. 10:12:58
17 You can see the contours there of the 10:13:00
18 island and it respects five kilometres from that, 10:13:03
19 from any point of land? 10:13:06
20 PRESIDENT: It includes five 10:13:09
21 kilometres from the two islands, the two, 10:13:11
22 Wolfe Island and Amherst, is it? 10:13:13
23 BY MR. NEUFELD: 10:13:18
24 Q. That's right, Amherst. 10:13:18
25 So at Tab 18 you will find C-0511. 10:13:26

Page 71

1 Q. Same thing, five-kilometre 10:14:42
2 setback? 10:14:43
3 A. Looks about right. 10:14:47
4 Q. And now one more, August 2014 10:14:49
5 report, which is Exhibit C-712, and you will find 10:14:52
6 this one at Tab 20. If you look to page 25. 10:14:56
7 A. Uh-hmm. 10:15:08
8 Q. Is that right? No. Yeah, 10:15:10
9 page 25. Same layout? 10:15:12
10 A. It looks the same. 10:15:26
11 Q. Okay. Now let's go to page 16 of 10:15:27
12 the first Sgurr report, which is on the desk there. 10:15:37
13 This is dated August 2014. 10:15:41
14 A. Page 16? 10:15:46
15 Q. Yes. 10:15:46
16 A. So we were not involved in the 10:15:57
17 preparation of this report. This is a Sgurr report. 10:15:58
18 Q. Okay. 10:16:02
19 A. This is page 16? 10:16:02
20 Q. Yes, Figure 1.1. 10:16:04
21 A. Yeah. 10:16:17
22 Q. Is that the same layout? 10:16:17
23 A. The figures are a little bit 10:16:19
24 distorted, but it looks like pretty much the same 10:16:24
25 layout. 10:16:27

Page 72

1 Q. You said that ORTECH had nothing 10:16:28
2 to do with that report, but it is -- 10:16:31
3 A. No, we provided -- it had nothing 10:16:33
4 to do with writing the report. We provided input. 10:16:35
5 We were the project manager. We provided all kinds 10:16:39
6 of input to all kinds of people. 10:16:42
7 Q. They're relying on your layout 10:16:44
8 here; is that right? 10:16:47
9 A. Yeah, it looks like it. 10:16:47
10 Q. Now, so just to recap all of this, 10:16:55
11 we've had four Wind Resource Assessment Reports, and 10:16:58
12 the Sgurr report that rely on the five-kilometre 10:17:03
13 firm setback from the shoreline. But that changes 10:17:07
14 in the next report, and I'd like to take you to show 10:17:12
15 you that at Tab 22 of your binder, Exhibit C-0918. 10:17:16
16 A. What was the tab again? 10:17:25
17 Q. Tab 22. What this is is 10:17:27
18 a document that you submitted, that ORTECH submitted 10:17:34
19 to MOE commenting on the proposal of 10:17:35
20 a five-kilometre shoreline exclusion; isn't that 10:17:37
21 right? 10:17:41
22 A. Yes. 10:17:42
23 Q. And at page 2 of that document, it 10:17:45
24 states: 10:17:47
25 "ORTECH would suggest that 10:17:47

Page 74

1 Q. Now on page 3 of the same 10:19:22
2 document, if you could read the second paragraph 10:19:24
3 there, under the heading "Definition of a -- sorry, 10:19:28
4 this is on page 3. 10:19:35
5 We are still on page 2, the second 10:19:37
6 paragraph of that heading, of that same heading: 10:19:39
7 "The Great Lakes and other 10:19:41
8 major water bodies in Ontario 10:19:42
9 contain many uninhabitable or 10:19:45
10 uninhabited islands and the 10:19:49
11 shorelines include many 10:19:51
12 uninhabitable or uninhabited 10:19:52
13 PS&Ps." 10:19:52
14 [As read] 10:19:59
15 What are PS&Ps? 10:19:59
16 A. You want me to read the paragraph? 10:20:06
17 Q. I am wondering what PS&Ps are. 10:20:08
18 I just read it, so I won't make you read it again. 10:20:12
19 MS. SEERS: If I may assist, it's 10:20:19
20 defined in the paragraph above, the first paragraph. 10:20:21
21 THE WITNESS: It's points, spits and 10:20:25
22 peninsulas. 10:20:27
23 BY MR. NEUFELD: 10:20:29
24 Q. Okay. So it is your position that 10:20:30
25 the definition of shoreline and major islands in 10:20:33

Page 73

1 the exclusion be formulated 10:17:49
2 as a guideline rather than 10:17:51
3 a firm minimum setback." 10:17:52
4 Do you remember that? 10:17:55
5 A. Where are you pointing to? 10:17:57
6 Q. Page 2. 10:17:58
7 A. Paragraph? 10:18:00
8 Q. Let me find it. I'll follow along 10:18:03
9 with you. 10:18:09
10 A. Paragraph 5 on page 2? 10:18:28
11 Q. Yes, I mean right at the top you 10:18:34
12 will see the heading "Definition of a five-kilometre 10:18:36
13 shoreline exclusion." Let me see that. Page 2 -- 10:18:39
14 here's the problem. You are looking at page 2 of 10:18:41
15 the document, but it is page 2 of 3 -- Ortech's 10:18:46
16 numbering on the top right there. 10:18:49
17 I'll just give you a chance to read 10:18:56
18 that. 10:18:58
19 A. Yes, okay. 10:19:06
20 Q. Okay, so you see that ORTECH would 10:19:06
21 suggest that the exclusion be formulated as 10:19:09
22 a guideline rather than a firm minimum distance, and 10:19:11
23 you're asking for exceptions to be made, proponents 10:19:15
24 can make the following case, right? 10:19:18
25 A. Yes. 10:19:21

Page 75

1 this paper, to which a five-kilometre exclusion zone 10:20:35
2 applies, shouldn't apply to points, spits and 10:20:38
3 peninsulas, right? This is what you're asking for? 10:20:41
4 A. Well, it is a consultation 10:20:46
5 process, and we're trying to provide constructive 10:20:47
6 input. The constructive input is in the context of 10:20:51
7 the MNR has just awarded Crown land on not just the 10:20:54
8 Wolfe Island Project, but on a number of offshore 10:21:01
9 projects, so grid cells were awarded on multiple 10:21:03
10 projects. 10:21:07
11 A lot of those grid cells that the MNR 10:21:08
12 awarded are within this -- this five kilometres 10:21:11
13 potentially. Not only that, the initial guidance 10:21:14
14 spoke shorelines from the Great Lakes. It didn't 10:21:17
15 specifically speak about points and peninsulas in 10:21:20
16 minor islands. 10:21:27
17 I think the other thing that we 10:21:28
18 perceived at ORTECH at the time was when these 10:21:30
19 setback guidelines were developed for on-shore 10:21:33
20 projects, they related specifically to trying to 10:21:37
21 meet and standardize specific environmental impact 10:21:40
22 issues relevant to the Environment Protection Act, 10:21:44
23 of which noise is probably the most relevant one. 10:21:46
24 When the government came out and did 10:21:50
25 the 550-metre setback for on-shore wind turbines 10:21:52

1 under REA, it was specifically to address meeting 10:21:58
2 the noise requirements in Ontario. 10:22:01
3 When the offshore requirements came 10:22:05
4 out, it was written more loosely than that, or more 10:22:07
5 obtuse than that, and the position we were taking is 10:22:12
6 the Environmental Protection Act is about impacts on 10:22:15
7 receptors. There is a lot of guidance literature on 10:22:20
8 impacts and receptors under the 10:22:25
9 Environmental Protection Act. And our 10:22:29
10 recommendation in the consultation process is get in 10:22:29
11 that direction, which is if you have an uninhabited 10:22:33
12 island, why are we doing a five-kilometre setback 10:22:36
13 when we are talking about the 10:22:40
14 Environmental Protection Act, and we are talking 10:22:43
15 about impacts on receptors and we are talking about, 10:22:44
16 you know, setting standards? 10:22:46
17 Q. Uh-hmm. 10:22:48
18 A. And so our comment here in this 10:22:48
19 context is there are, and there were present in this 10:22:51
20 project, features in the natural environment that 10:22:54
21 don't contain receptors that could get caught up in 10:22:58
22 a broad and not well-thought-out definition. 10:23:02
23 Q. Uh-hmm. 10:23:08
24 A. I read the definition of 10:23:08
25 shorelines from the Great Lakes as a pretty loose 10:23:09

1 Like I said, we wouldn't have 10:24:11
2 distinguished necessarily, and said how do we plan 10:24:12
3 this project so that it meets the intent of that 10:24:15
4 requirement? 10:24:17
5 Q. Okay. 10:24:19
6 A. And so that's -- yes, we did 10:24:19
7 a number of layouts with five-kilometre setback to 10:24:21
8 see if we could build a project five kilometres out. 10:24:24
9 Q. Okay. So if we could turn then to 10:24:27
10 your ORTECH report, 2015 report, which is appended 10:24:30
11 to the Sgurr reports, Appendix 21, and it is in 10:24:34
12 front of you there. Page 11 of your report. 10:24:39
13 A. Sorry, appendix in the Sgurr 10:24:42
14 report? 10:24:45
15 Q. Yes, in the latest Sgurr report, 10:24:45
16 the ORTECH report is appended to it. Do you see it 10:24:48
17 there? 10:24:56
18 A. I'm not sure it's appended to this 10:24:56
19 version, but could you point me to where? 10:25:00
20 Q. It is the very last appendix. Is 10:25:15
21 this the standalone? No, that -- 10:25:17
22 A. We are speaking of this document 10:25:18
23 here? 10:25:18
24 Q. -- must be the early Sgurr. 10:25:18
25 So there you have the standalone 10:25:20

1 setback. Does that mean shoreline just from the 10:23:12
2 main shoreline of the Great Lakes, or does it mean 10:23:14
3 every shoreline of every spit and island -- 10:23:17
4 Q. You didn't read it as the water's 10:23:21
5 edge? It's funny because all of your reports say 10:23:22
6 that -- 10:23:27
7 A. I read it as shoreline, and maybe 10:23:27
8 that's because we have other shoreline stuff in 10:23:29
9 other parts of the regulatory system. 10:23:31
10 Q. Right. But all of your reports 10:23:32
11 through 2010 -- maybe just walk through every single 10:23:33
12 of them -- the project layout that you use respects 10:23:35
13 a five kilometres, so you seem to up to until then? 10:23:38
14 A. We tried to -- so in that context 10:23:41
15 we knew the stuff was coming in the summer of 2010. 10:23:43
16 We knew something was coming. We didn't know what 10:23:46
17 the outcome of the consultation process would be. 10:23:48
18 We didn't know to what extent or how it would apply, 10:23:51
19 but we're trying to look at the project and say if 10:23:55
20 there really is a five-kilometre setback, how do we 10:23:57
21 meet it, if it does apply to the project? 10:24:00
22 Q. Okay. 10:24:02
23 A. So the project team obviously was 10:24:02
24 working on solutions to overcome potential guidance 10:24:04
25 documentation, whether it's a rule or standard. 10:24:09

1 ORTECH one under -- maybe I'll come over. 10:25:21
2 We can go back into public mode here 10:25:26
3 too. 10:25:28
4 --- Confidential transcript end 10:25:28
5 BY MR. NEUFELD: 10:25:45
6 Q. So page 11. 10:25:45
7 MS. NETTLETON: Okay, we're back on 10:25:47
8 public to confirm. 10:25:48
9 THE WITNESS: Yes, I have page 11. 10:25:49
10 BY MR. NEUFELD: 10:25:51
11 Q. There's a Figure 2. 10:25:51
12 A. May 26th. Figure 2, page 11. 10:25:52
13 Q. Right. And this illustrates the 10:25:55
14 2014 layout again, the firm 5? 10:25:56
15 A. Yes, it seems to. 10:26:11
16 Q. A thick solid yellow line -- 10:26:12
17 A. Yes. 10:26:14
18 Q. -- which was actual 5 kilometres 10:26:14
19 from all shoreline; is that right? 10:26:16
20 A. Right. 10:26:19
21 Q. Then on page 12, you have 10:26:24
22 Figure 3, which illustrates the new layout that 10:26:27
23 ORTECH developed in 2015. So despite what it had in 10:26:31
24 2010, 2011, 2012, '13 and '14, you have got a new 10:26:33
25 layout in 2015, right? 10:26:38

1 And you see there, according to the 10:26:40
 2 legend, the thick yellow line it represents 10:26:42
 3 a five-kilometre line as well, but there it's 10:26:46
 4 a shoreline buffer in the figure, right, which is 10:26:50
 5 different than a hard five kilometres from the 10:26:53
 6 shore; isn't that right? 10:26:55
 7 A. Yes. So we -- you have to 10:26:57
 8 understand the context that on June 25th we got 10:26:59
 9 a consultation on a setback, which is supposed to 10:27:04
 10 end in September some time. It was our expectation 10:27:08
 11 that that issue would be clarified. Two years -- 10:27:13
 12 what is it -- three, four years later, that still 10:27:17
 13 hasn't been rolled out, so we still don't know what 10:27:20
 14 that requirement is. 10:27:23
 15 So I think all these layouts that we 10:27:24
 16 did, we had to do speculating on what the 10:27:27
 17 requirement might or might not be. 10:27:30
 18 At the time the process was going on 10:27:32
 19 in 2010, we thought it was going to be made very 10:27:33
 20 clear what it would be and whether it would apply to 10:27:36
 21 this project and how we would apply it. But because 10:27:40
 22 it was never rolled out, I don't think that it's 10:27:42
 23 been rolled out to this date... 10:27:45
 24 Q. And the two changes, in 10:27:47
 25 particular, to this; one is to respect this idea of 10:27:49

1 A. Like I said, I didn't do the 10:29:02
 2 specific layout. I have a team of people that work 10:29:03
 3 on this. So we worked on various iterations of the 10:29:06
 4 layout, and we shuffled turbines on numerous 10:29:09
 5 occasions, and as some of the earlier layouts had 10:29:15
 6 actually optional turbine locations, some have only 10:29:20
 7 the intended turbine locations. 10:29:23
 8 I would actually have to spend 10:29:25
 9 a little bit more time examining each one of these 10:29:28
 10 drawings to be sure. 10:29:31
 11 Q. Okay. So, I have one last area to 10:29:32
 12 cover. Did you want to break or should we -- 10:29:44
 13 PRESIDENT: It's up to you, 10:29:47
 14 Mr. Neufeld. How long do you think you will still 10:29:48
 15 need? 10:29:52
 16 MR. NEUFELD: Probably, oh, 20 minutes 10:29:54
 17 at the most, I would say. 10:29:57
 18 PRESIDENT: Why don't we go and we'll 10:29:59
 19 have a break then after your examination. 10:30:00
 20 MR. NEUFELD: Okay. 10:30:03
 21 BY MR. NEUFELD: 10:30:04
 22 Q. So, in your second witness 10:30:06
 23 statement, you stated that on October 8th, 2010, 10:30:07
 24 ORTECH issued a request for proposals from 10:30:09
 25 consultants, and so you referred to this earlier, 10:30:12

1 uninhabited and uninhabitable points, which you had 10:27:52
 2 had in your proposal, right? So that's one reason 10:27:56
 3 that the shoreline edge suddenly changes. And the 10:27:59
 4 other reason is because you're using a mean 10:28:01
 5 five-kilometre setback, right, as opposed to a hard 10:28:04
 6 five-kilometre setback? 10:28:08
 7 A. I believe so, yes. 10:28:10
 8 Q. So on that logic -- 10:28:11
 9 A. So these particular drawings are 10:28:13
 10 done by our GIS staff, but, yes, that's roughly how 10:28:15
 11 they're done. 10:28:18
 12 Q. But a mean, just to sort of 10:28:18
 13 verbalize this, a mean setback would mean if you had 10:28:23
 14 one on the shore and -- one turbine on the shore and 10:28:27
 15 one turbine at ten kilometres, you would reach 10:28:30
 16 a mean of five-kilometre setback; is that right? 10:28:32
 17 I didn't hear a "yes" or "no," I just saw you nod. 10:28:38
 18 Is that what you were about to say? 10:28:42
 19 You said "Yes"? 10:28:44
 20 A. Yes, I believe so. 10:28:46
 21 Q. Okay. And there is only one 10:28:49
 22 reason for making that change to the 2015 layout, 10:28:51
 23 isn't there? It's that you wouldn't have been able 10:28:55
 24 to fit all the turbines on the project site; isn't 10:28:57
 25 that right? 10:29:00

1 and I said we'd come back it. Now is the moment. 10:30:15
 2 A. So, second witness statement? 10:30:21
 3 Q. We don't -- as long as you're 10:30:24
 4 comfortable with that statement, we don't have to 10:30:25
 5 look to it, but if you'd care to. 10:30:28
 6 A. Yes. 10:30:30
 7 Q. So it's a request for proposals 10:30:30
 8 from consultants to conduct the necessary permitting 10:30:31
 9 work and to apply for the REA and other permitting 10:30:34
 10 requirements, right? 10:30:37
 11 A. Yes. 10:30:39
 12 Q. Now at Tab 14, if you can flip 10:30:39
 13 there, please, you will find Exhibit C-0374. This is 10:30:43
 14 the RFP which you referred to? 10:30:52
 15 A. Yes, it looks like it. 10:30:57
 16 Q. So if you could flip to page 1, 10:30:58
 17 the second section there. 10:31:01
 18 A. Page 1 of 7? 10:31:06
 19 Q. The second section on page 1. 10:31:07
 20 A. Okay. 10:31:10
 21 Q. You see there that it's -- 10:31:12
 22 A. Page 1 of 16? 10:31:14
 23 Q. Right. 10:31:16
 24 "ORTECH, as the agent for 10:31:17
 25 Windstream, will create 10:31:19

1 a permitting team based on 10:31:20
2 responses to this proposal 10:31:22
3 and any other discussion with 10:31:23
4 respondents." 10:31:26
5 Do you see that? 10:31:27
6 MS. NETTLETON: Should it be the 10:31:28
7 page that's on the screen? 10:31:30
8 PRESIDENT: This is page 1 of 7. 10:31:35
9 THE WITNESS: One of 7. That's the 10:31:38
10 first one I had. The two sets of pages in that 10:31:39
11 document, one to 7, and the other one is 1 to 16, so 10:31:46
12 it's a little confusing. 10:31:51
13 BY MR. NEUFELD: 10:31:55
14 Q. That's why I'm mixed up here. 10:31:55
15 A. That's why I asked 1 of 7 or 1 of 10:31:57
16 16? 10:32:00
17 Q. I see. I see. 10:32:00
18 A. So say it again. 10:32:02
19 Q. It's got to be right up at the 10:32:03
20 front, right? 10:32:04
21 PRESIDENT: I think you were referring 10:32:06
22 to the second paragraph under the heading "purpose, 10:32:08
23 sir." 10:32:09
24 BY MR. NEUFELD: 10:32:16
25 Q. Yes. So this kicks off the RFP 10:32:16

1 A. Including Stantec. 10:33:44
2 Q. Who you haven't hired yet. 10:33:46
3 I think there was a little misconception about that 10:33:48
4 at the beginning, that there was a reference to 10:33:50
5 Stantec, but you haven't hired them as of -- well, 10:33:52
6 at all, have you? You were about to hire Stantec? 10:33:55
7 A. Honestly, I'd have to check that. 10:33:59
8 I don't think we did, but I'd have to check that 10:34:00
9 fact. 10:34:03
10 Q. Okay. It was on 10:34:03
11 February 17th that you had planned to do the hiring 10:34:06
12 based on this RFP? 10:34:12
13 A. I think for the RFP, yes. So we 10:34:13
14 did engage on various occasions consultants on 10:34:15
15 particular pieces, so I know we did that with 10:34:18
16 Genivar, I know we did it with Mott MacDonald, some 10:34:22
17 other consulting firms. I think with respect to 10:34:25
18 this environmental engagement and Stantec, we had 10:34:28
19 not hired them, no. 10:34:31
20 Q. This was ten and a half 10:34:32
21 months after the OPA had communicated that 10:34:34
22 Windstream would be receiving an offer, a FIT 10:34:36
23 contract offer? 10:34:39
24 This is February -- we are now talking 10:34:41
25 about February 2011, right, around the time of the 10:34:42

1 process? 10:32:43
2 A. Yes. 10:32:44
3 Q. That's the purpose? 10:32:44
4 A. Well, we had gone out in the 10:32:45
5 spring of 2010, so I think back to context of what 10:32:46
6 happened at certain times, when the FIT contract was 10:32:51
7 first offered, we'd actually gone out and consulted 10:32:54
8 with several firms to get spring fieldwork underway. 10:32:56
9 That didn't happen. 10:33:01
10 And when the contract was signed we 10:33:04
11 had -- the contract was signed in August for the 10:33:06
12 five-year extension. Then gave us a master plan 10:33:09
13 that said fieldwork will be in 2011, and this 10:33:13
14 procurement in the fall of 2010 is the procurement 10:33:16
15 call to environmental assessment firms to assist 10:33:21
16 with the environmental studies that would occur over 10:33:24
17 the winter and next summer of 2010 -- 2011. 10:33:28
18 Q. Okay, proposals were to be 10:33:30
19 submitted by November 26th; does that sound about 10:33:32
20 right? 10:33:35
21 A. It sounds right. 10:33:35
22 Q. And you received 14 proposals? 10:33:37
23 A. Yes, we received a very good 10:33:39
24 response to the project. 10:33:41
25 Q. Including Stantec? 10:33:42

1 deferral? 10:34:45
2 A. Right. 10:34:45
3 Q. And despite your conclusion early 10:34:47
4 on, we brought you to that quite early in document 10:34:51
5 R-528 that your desperate -- you are desperately 10:34:55
6 needed input on the technical studies, and we should 10:34:56
7 think about hiring somebody or putting out 10:35:01
8 a contract for this? 10:35:03
9 A. Yeah, again, as I earlier, that 10:35:04
10 email referring to the "desperately needing input" 10:35:09
11 was written in the May -- June timeframe. At that 10:35:14
12 time, we thought we had four years to complete the 10:35:16
13 project. We then in August found out that there 10:35:18
14 were five years to complete the project, and this 10:35:20
15 procurement was done under the new five-year 10:35:22
16 timeline, anticipating that fieldwork would happen 10:35:25
17 in 2011 and not in 2010. 10:35:28
18 Q. But five years as of May 4th, 10:35:29
19 2010, right, so -- 10:35:36
20 A. I believe so. 10:35:39
21 Q. So you've lost half a year or so 10:35:40
22 already at this point? 10:35:41
23 A. We've lost the summer field 10:35:42
24 season, yes. 10:35:43
25 Q. As well. Now the REA wasn't the 10:35:45

1 only permit or approval that you needed for this 10:35:48
2 project, was it? You needed federal permits as 10:35:51
3 well? 10:35:54
4 A. It -- Yes, it may have required 10:35:55
5 a CEAA on the federal level. 10:35:56
6 Q. And by February 2011, had 10:36:04
7 Windstream entered into consultations with the 10:36:06
8 Federal Government about the CEAA? 10:36:08
9 A. We had -- no, we were leaving that 10:36:13
10 to the consultant that we were going to hire. 10:36:15
11 Q. Likewise, it might have required 10:36:19
12 Fisheries permits, with the Department of Fisheries 10:36:20
13 and Oceans at the federal level? 10:36:24
14 A. It might. That's -- that's 10:36:29
15 probably a better question for the environmental 10:36:34
16 practitioners than myself as the engineer. 10:36:37
17 Q. Okay. And a navigable waters 10:36:43
18 permit, that's more engineering, is it? 10:36:45
19 A. Yes, yes, navigable waters we 10:36:47
20 would need. 10:36:49
21 Q. You would have needed that for the 10:36:50
22 offshore, the site, but also for the on-shore 10:36:51
23 facility and the ports that was being -- that would 10:36:55
24 have needed to be reconstructed, right? 10:36:59
25 A. Which port are you referring to? 10:37:02

1 Q. Where the staging facility was, 10:37:03
2 you would have had to rebuild the port, as 10:37:07
3 I understand it, to take the turbine bases, the 10:37:10
4 gravity-based foundations out to the site? 10:37:15
5 A. Yeah, there was actually several 10:37:18
6 port facilities; one of them was for operations, 10:37:20
7 which was intended to be Kingston on the existing 10:37:23
8 port docks, although none of that had been firmed 10:37:25
9 up, but that was our concept. 10:37:28
10 For turbines, we had planned to 10:37:30
11 possibly use one of several existing port 10:37:32
12 facilities, either Hamilton or in the St. Catharines 10:37:35
13 area. And for the gravity-based foundations, we 10:37:38
14 hadn't selected the facility yet, but there are two 10:37:43
15 or three facilities right on Lake Ontario that we 10:37:47
16 were seriously looking at at that time. 10:37:51
17 Q. Okay. 10:37:53
18 A. Our anticipation would have been 10:37:53
19 that they would have amended their permits 10:37:54
20 separately from REA, but, again, I'm not the 10:37:58
21 environmental or regulatory expert. 10:38:03
22 Q. You are relying on the site to get 10:38:06
23 the permits? I mean if -- 10:38:08
24 A. In the high-level plan, we were 10:38:12
25 expecting that the manufacturing facility would be 10:38:14

1 dealt with through the manufacturing facility site 10:38:19
2 process, so we assumed they already had an approval 10:38:22
3 to operate. 10:38:26
4 Q. I see. 10:38:27
5 A. So it would have been an amendment 10:38:27
6 to approval to operate for that facility. 10:38:28
7 Q. Now my colleagues reminded me, and 10:38:32
8 this is a good idea for the Tribunal in particular. 10:38:32
9 We use the Canadian term, the CEAA, but it is 10:38:33
10 probably helpful to pause on it for a minute to 10:38:38
11 explain what the CEAA is? 10:38:41
12 A. CEAA is the Canadian Environmental 10:38:43
13 Assessment Act. It gets triggered whenever you 10:38:45
14 trigger something of federal jurisdiction. And 10:38:50
15 federal jurisdiction includes things such as 10:38:53
16 Crown-owned land, in which case we had Pigeon 10:38:55
17 Island, or areas of administrative jurisdiction, 10:38:59
18 such as navigable waters, as you mentioned, so we 10:39:02
19 had in the area some shipping lanes, we are dealing 10:39:07
20 potentially with port facilities, fisheries. 10:39:09
21 Perhaps, you know, there is a better experts than me 10:39:11
22 to comment on whether or not fisheries would have 10:39:19
23 been triggered, but some aspects would have been 10:39:21
24 triggered. 10:39:23
25 And indeed when the Wolfe Island 10:39:24

1 Project on-shore was carried out in 2008, 2009, when 10:39:26
2 it was being prepared, which was a project I worked 10:39:31
3 on in the early stages. It required a CEAA, and the 10:39:34
4 CEAA was actually carried out in that case by 10:39:37
5 Enercan on behalf of the projects. Actually, the 10:39:41
6 government did it for the proponent. 10:39:44
7 Q. You may also have required 10:39:48
8 a permit from Environment Canada on migratory birds; 10:39:52
9 is that possible? 10:39:56
10 A. Yeah. Again, I would defer for 10:39:57
11 the bird and bat stuff, I would really refer to what 10:40:00
12 the proposals were telling us that we were 10:40:03
13 soliciting, so... 10:40:06
14 Q. So you didn't know yet by February 10:40:06
15 of 2011? 10:40:08
16 A. I mean birds are -- on the one 10:40:09
17 hand, birds are a significant issue for wind 10:40:11
18 projects, you know, at large everywhere. 10:40:13
19 Birds are a core issue. We have, on 10:40:18
20 an offshore facility -- most on-shore -- all 10:40:23
21 breeding facilities, all sensitive habitat for birds 10:40:26
22 that I have been involved in, on projects that I've 10:40:29
23 managed, we are focused not so much on whether birds 10:40:32
24 are present, but whether nesting habitat, breeding 10:40:37
25 habitat, foraging and feeding habitat that is 10:40:40

Page 92

1 critical exists in those areas, especially if it's 10:40:44
2 species at risk. 10:40:49
3 Now, most of that habitat exists on 10:40:50
4 on-shore and not offshore, and we have three or four 10:40:54
5 on-shore facilities permitted in that area. They 10:40:58
6 all have issues with those items in the 10:41:01
7 environmental assessment, and they were dealt with, 10:41:04
8 and I actually believe that the offshore facility 10:41:07
9 would have not been as onerous as those on-shore 10:41:12
10 facilities in permitting, simply because there is no 10:41:15
11 nesting, there is no breeding habitat out on the 10:41:19
12 water, save and except maybe the cormorants on 10:41:21
13 Pigeon Island, which in Hamilton Harbour are 10:41:27
14 considered a nuisance bird, and we are trying to get 10:41:32
15 rid of them in Hamilton Harbour. But birds are 10:41:35
16 always an issue, whether or not that would have 10:41:40
17 triggered the federal -- 10:41:43
18 Q. You just didn't know? 10:41:43
19 A. I don't know. 10:41:45
20 Q. And did you consult with 10:41:46
21 Environment Canada at least on the Boundary Waters 10:41:50
22 Treaty? The RFP notes as well that a review through 10:41:50
23 Environment Canada was needed, with the assistance 10:41:52
24 of the International Joint Commission? 10:41:56
25 A. That was our perspective, yeah. 10:41:58

Page 94

1 including the American jurisdiction. 10:42:59
2 To my knowledge, and my knowledge at 10:43:02
3 the time or now, I don't know what jurisdiction it 10:43:03
4 would have had. 10:43:07
5 I'm not so sure we would be consulted 10:43:08
6 on a similar project on the US side, other than 10:43:11
7 through general consultation, but I'm not so sure we 10:43:14
8 would have jurisdiction. But the closest probably 10:43:18
9 is International Joint Commission, which deals with 10:43:19
10 those matters. And if there are regulatory 10:43:22
11 requirements that we weren't aware of, the 10:43:27
12 International Joint Commission would have pointed 10:43:29
13 those out to us in the consultation process. 10:43:31
14 Q. Okay. And finally, another 10:43:34
15 important element of renewable energy project is 10:43:40
16 consultations with the public, and particularly 10:43:43
17 aboriginal groups, aboriginal peoples; you'd agree 10:43:45
18 with that? 10:43:49
19 A. Absolutely. 10:43:50
20 Q. And you hadn't begun your 10:43:50
21 aboriginal consultations, had you, at this point? 10:43:51
22 You were again bringing somebody -- 10:43:55
23 A. No. 10:43:56
24 Q. -- to do that? 10:43:56
25 Windstream hadn't even requested the 10:43:58

Page 93

1 Q. Okay. 10:42:00
2 A. It's certainly advisable, so in 10:42:00
3 the consultation process for any environmental 10:42:02
4 assessment, we try to go broad and try and include 10:42:04
5 everybody, even if at the end it's not -- even if 10:42:08
6 they don't necessarily play a large role in the 10:42:11
7 environmental assessment, we typically reach as 10:42:15
8 broad as we can and make sure that we consult with 10:42:18
9 everybody. 10:42:21
10 Q. And you are bringing Stantec in or 10:42:22
11 somebody in to do that -- 10:42:24
12 A. To do that for us, yes. 10:42:26
13 Q. And your RFP also states that the 10:42:28
14 proximity of the project to the Canada US border 10:42:30
15 requires cooperation with the US agencies and 10:42:32
16 stakeholders and discussions will be held with the 10:42:36
17 International Joint Commission in New York. 10:42:38
18 Do you remember that? Should I take 10:42:42
19 you to it? 10:42:43
20 A. Yeah, that was certainly our view, 10:42:44
21 certainly on a consultation perspective again. 10:42:45
22 I don't think we necessarily had the view that the 10:42:48
23 American authorities have any jurisdiction per se, 10:42:51
24 but from a consultation perspective, it is certainly 10:42:54
25 advisable to consult with all stakeholders, 10:42:58

Page 95

1 list of interested aboriginal groups from the 10:44:00
2 Ministry of Environment, had it? 10:44:02
3 A. Well, we were waiting a bit for 10:44:05
4 MNR to take more of a lead there. So actually at 10:44:07
5 that time, in the summer of 2010, we were waiting 10:44:09
6 for a site description package. A site description 10:44:13
7 package that I've seen on other projects 10:44:16
8 typically -- a lot of the information in the site 10:44:18
9 description package we kind of know what's going to 10:44:21
10 be in there. It identifies issues that the MNR 10:44:24
11 knows about, so if they know that there is 10:44:28
12 commercial fishing or sensitive habitat in the area 10:44:30
13 they have previously mapped or have in their 10:44:33
14 database, they point that out in the site 10:44:34
15 description package. 10:44:37
16 They may also point out who the First 10:44:38
17 Nation communities are that should be consulted 10:44:40
18 with. And if they don't, then they would expect 10:44:45
19 that they would communicate that to us separately. 10:44:48
20 Under REA, that was a little bit 10:44:55
21 different -- 10:44:55
22 Q. Is that MOE as opposed to MNR that 10:44:55
23 would do that? 10:44:55
24 A. Yeah, it really changes from MNR 10:44:56
25 to MOE in REA. So REA also has First Nation 10:44:58

Page 96

1 consultation requirements. They are a little bit 10:45:05
2 more clear. MOE is actually supposed to send you a 10:45:07
3 list. My understand is, from other files that we've 10:45:08
4 worked on, MOE actually -- the REA requires us to 10:45:09
5 send out letters and notifications to the affected 10:45:12
6 communities. But MOE, I believe, also does on their 10:45:15
7 own letterhead, so I think it's actually done twice. 10:45:20
8 But, yes, of course a consultation is required on 10:45:23
9 all projects in Ontario. 10:45:25
10 Q. Okay, thank you. If I could just 10:45:27
11 have one second, I think it looks like I have one 10:45:28
12 more question. I'm not sure yet. 10:45:31
13 One more question. 10:47:09
14 PRESIDENT: You are still below the 20 10:47:11
15 minutes you indicated. 10:47:12
16 BY MR. NEUFELD: 10:47:13
17 Q. Perfect. This takes us back to 10:47:14
18 the conversation we were having earlier about the 10:47:16
19 REA process, and you did confirm that it is not 10:47:18
20 a rubber stamp, but I guess we need to clarify 10:47:21
21 something else. 10:47:24
22 So the REA process was underway, and 10:47:27
23 therefore would be -- there would be no retroactive 10:47:31
24 application, right? 10:47:34
25 I mean it was -- you had said the REA 10:47:35

Page 98

1 future. So, we've had -- I would struggle to give 10:49:11
2 you a specific example, but I think when we look at 10:49:17
3 the air quality modelling, air models, when they 10:49:20
4 were brought in over a seven-year time span, we had 10:49:25
5 future timelines when certain things would come into 10:49:28
6 force and effect. 10:49:30
7 When the Toxic Reductions Act was put 10:49:31
8 into place, we had specific timelines, and they are 10:49:35
9 still going on, that were set out years ahead of 10:49:41
10 time. So I don't think it's implied at all that 10:49:43
11 it's necessarily retroactive. 10:49:46
12 What happens quite often is that there 10:49:49
13 will be -- there is an implementation plan and 10:49:50
14 schedule along with those requirements, and I'm -- 10:49:54
15 and I hazard to guess as to what it is. 10:49:57
16 We made the conservative assumption as 10:49:59
17 project managers, that there could be new rules 10:50:02
18 rolled out, that we didn't know exactly what the 10:50:04
19 wording was, and that it might effect different 10:50:07
20 layouts, and which you pointed to that we did 10:50:09
21 different versions of layout simply because we 10:50:12
22 didn't know what they were coming up with. 10:50:14
23 Q. Right. And your analogies apply 10:50:16
24 in sort of an environmental assessment world under 10:50:19
25 the EPA where the proponent is driving the process 10:50:23

Page 97

1 process, you were concerned that the rules that were 10:47:37
2 being adopted would apply retroactively to the 10:47:43
3 project, and we -- I think we cleared that up when 10:47:47
4 you said, no, no, I understand that the REA -- 10:47:50
5 changes to the REA were underway as of 10:47:54
6 September 2009, and that it was to become the final 10:47:58
7 REA; isn't that fair? 10:48:07
8 A. As I said, I don't know if the 10:48:14
9 government contemplated to change the regulation, 10:48:17
10 which is a much bigger step than changing the 10:48:19
11 standards, requirements or guidance documentation. 10:48:23
12 So I have no view on how technically 10:48:27
13 it would have been implemented in a regulatory 10:48:32
14 setting, other than that we would have -- we would 10:48:34
15 have tried to work with whatever they rolled out if 10:48:39
16 it retroactively applied to the project. 10:48:42
17 Q. Okay, and if you hadn't applied to 10:48:45
18 the REA, the issue of retrospective applications is 10:48:48
19 neither here nor there, is it? 10:48:53
20 A. Well, I don't know, because 10:48:58
21 I don't know how they would have rolled it out or 10:48:59
22 what they would have done. We've seen some new 10:49:02
23 requirements like modelling requirements, for 10:49:04
24 example, have been rolled out by Standards Branch 10:49:06
25 that came into effect at certain points in the 10:49:09

Page 99

1 and rules change along the way. But here we have 10:50:27
2 a very different process where you apply for an REA, 10:50:30
3 correct? 10:50:33
4 Isn't that how the world changed from 10:50:33
5 the EA to the REA? 10:50:35
6 A. The processes, in my mind, are 10:50:38
7 very similar functionally, in that both have 10:50:40
8 a commencement date, and both have similar processes 10:50:43
9 for data collection, consultation and so on. So I'm 10:50:48
10 not sure if I understand the question. 10:50:52
11 Q. But the actual application is what 10:50:56
12 will trigger the department, the Ministry, to 10:50:58
13 consider the rules that would apply and then apply 10:51:03
14 them? 10:51:05
15 A. Yeah, but the application in the 10:51:06
16 REA process was made fairly late, so ... 10:51:08
17 Q. So you try and do your work 10:51:11
18 upfront and then apply? 10:51:13
19 A. The REA sets out very carefully 10:51:16
20 what the steps are. I'd be happy to go back and 10:51:18
21 look at them -- 10:51:21
22 Q. Well, we he did. We did. I think 10:51:21
23 we just saw it was Section 12 of the table, right? 10:51:23
24 A. So we had not applied for REA, nor 10:51:27
25 would we have expected to apply for REA at that 10:51:30

Page 100

1 time. I think our plan for applying for REA came 10:51:32
2 much later in the plan in schedule. 10:51:35
3 Q. Okay, thank you. 10:51:38
4 PRESIDENT: Thank you very much. 10:51:40
5 I suggest we now break for 15 minutes, and if there 10:51:41
6 is redirect, we can do it after the break. So we 10:51:44
7 will continue at 11:05. 10:51:49
8 If I could ask Mr. Roeper, if could 10:51:52
9 you not speak with anybody about your testimony. 10:51:53
10 I understand there is a room reserved for you where 10:51:57
11 you can have a break, where you can have a coffee, 10:52:00
12 and also perhaps some cookies. Thank you very much. 10:52:03
13 --- Recess taken at 10:52 a m. 10:52:08
14 --- Upon resuming at 11:09 a.m. 10:52:08
15 PRESIDENT: We will resume. It will 11:09:50
16 be Ms. Seers, I understand. 11:09:51
17 MS. NETTLETON: If, Ms. Seers, you 11:10:05
18 could indicate if we are to be in the public 11:10:08
19 session? 11:10:12
20 MS. SEERS: Yes. 11:10:13
21 RE-EXAMINATION BY MS. SEERS: 11:10:14
22 Q. Members of the Tribunal, I have 11:10:17
23 provided Mr. Roeper with copies of Exhibit C-0132, 11:10:18
24 which I see you have in front of you, and C-0791. 11:10:20
25 I see Mr. Bishop has it. Okay, 11:10:26

Page 102

1 been some instances as this being referred to as 11:11:52
2 O Reg 359/09, which is the number that it has, so 11:11:55
3 when we're referring to the REA Regulation or 11:12:02
4 O Reg 359/09, it's this Exhibit C-0103 that's being 11:12:05
5 discussed. 11:12:13
6 So perhaps the best place to start, 11:12:13
7 Mr. Roeper, is at Section 6, which Mr. Neufeld did 11:12:15
8 take you to. 11:12:18
9 A. I think I have it. 11:12:30
10 Q. So this is a provision that sets 11:12:31
11 out, as I understand it, and you will tell us your 11:12:33
12 understanding, what is defined as a wind facility; 11:12:35
13 is that your understanding? 11:12:40
14 A. That's my understanding, yes. 11:12:41
15 Q. And does this provision apply to 11:12:43
16 offshore wind facilities? 11:12:45
17 A. Yes, it does. 11:12:46
18 Q. Can you direct us to the 11:12:47
19 section that makes that so? 11:12:48
20 A. It says in subsection 3: 11:12:52
21 "Facilities are to function 11:12:59
22 together as an integrated 11:13:00
23 aggregate system for 11:13:02
24 generating electricity." 11:13:03
25 And in point 5: 11:13:04

Page 101

1 perfect. 11:10:28
2 We will come to those in a moment. 11:10:29
3 Mr. Roeper, good morning. I apologize. I've 11:10:30
4 forgotten my binder. 11:10:36
5 A. No shortage of binders here. 11:10:48
6 Q. That's for sure. We're only 11:10:51
7 getting started. 11:10:52
8 You will recall, Mr. Roeper, that 11:10:53
9 Mr. Neufeld asked you some questions about the REA 11:10:55
10 Regulation, and how it applied to offshore wind 11:10:58
11 facilities, and he took you to a few provisions, but 11:11:02
12 he didn't walk you through the entire document, and 11:11:05
13 so I would propose to do that with you now so that 11:11:09
14 Members of the Tribunal can understand the broader 11:11:13
15 context of the regulation. 11:11:14
16 However, it is quite a long document, 11:11:17
17 so in the interest of time let's move through it 11:11:19
18 quickly, but I'll take you to provisions, and if you 11:11:22
19 could just give the brief context behind those 11:11:25
20 provisions and how they apply or don't apply. 11:11:28
21 So you will find that document at 11:11:33
22 Tab 11, and for the record it is Exhibit C-103. 11:11:34
23 A. The regulation? 11:11:44
24 Q. The regulation, that's right. And 11:11:45
25 I may also clarify for the record that there has 11:11:49

Page 103

1 "Two or more Class 5 wind 11:13:06
2 facilities are deemed to be 11:13:09
3 a single Class 5 wind 11:13:10
4 facility." 11:13:12
5 Which I believe applied to this 11:13:12
6 project." 11:13:13
7 Q. So it is your understanding that 11:13:14
8 a Class 5 wind facility is an offshore wind 11:13:15
9 facility? 11:13:19
10 A. That's my understanding. 11:13:20
11 Q. And perhaps I can assist you, the 11:13:21
12 table that goes on to the second page, if you turn 11:13:23
13 over the page, is that the definition of a Class 5 11:13:25
14 facility? 11:13:27
15 A. It is. 11:13:29
16 Q. And what is that definition? 11:13:29
17 A. It says: 11:13:31
18 "At a location where one or 11:13:32
19 more parts of a wind turbine 11:13:33
20 is located in direct contact 11:13:35
21 with a surface water other 11:13:37
22 than a wetland." 11:13:39
23 [As read] 11:13:41
24 Q. So every time in this regulation 11:13:41
25 there is a reference to a Class 5 facility, is it 11:13:42

Page 104

1 your understanding that -- 11:13:46
2 MR. NEUFELD: Sorry, it's great that 11:13:48
3 we're going through all of this again, but it seems 11:13:49
4 to me that the questions that counsel is asking are 11:13:52
5 very specific and more in the realm of testifying 11:13:56
6 than in the realm of open questions to the -- 11:14:03
7 BY MS. SEERS: 11:14:08
8 Q. I'll be more careful of my 11:14:08
9 phrasing. Thank you, Mr. Neufeld. 11:14:09
10 What is your understanding as to the 11:14:11
11 meaning of the references in this regulation to 11:14:12
12 Class 5 facilities? 11:14:15
13 A. That they refer to offshore wind 11:14:16
14 facilities. 11:14:18
15 Q. Perhaps we could move to 11:14:19
16 Section 13. Do you have an understanding of this 11:14:21
17 provision? I'll let you take a moment to have 11:14:33
18 a look at it. 11:14:42
19 A. Yes, I think it refers to the 11:14:49
20 equivalent permitting requirements document. 11:14:51
21 Q. And is it your understanding that 11:14:54
22 this provision applies to offshore wind facilities? 11:14:56
23 A. Oh, absolutely. That was the 11:15:00
24 process I was speaking about earlier that REA sets 11:15:01
25 out the process, and that process is outlined in 11:15:04

Page 106

1 A. Absolutely. It's exactly the same 11:15:55
2 process for all the facilities. 11:15:57
3 Q. So it applies to offshore wind? 11:15:59
4 A. It applies for offshore wind. 11:16:02
5 Q. Section 18 "Consultation with 11:16:04
6 Municipalities and Local Authorities." 11:16:07
7 A. Yes, absolutely, it applies to 11:16:09
8 offshore wind. 11:16:11
9 Q. Section 19, "Protected 11:16:12
10 Properties." 11:16:14
11 A. It applies to offshore wind. 11:16:15
12 Q. Section 21, "Archeological 11:16:16
13 Resources, Other Project." 11:16:18
14 A. Yes, it does, applies to offshore. 11:16:21
15 Q. Section 22, "Archeological 11:16:23
16 Assessment Documents to be included in Application." 11:16:26
17 A. Yes, it applies to offshore. 11:16:29
18 Q. Section 23. 11:16:32
19 A. Yes. 11:16:36
20 Q. "Heritage Assessment." 11:16:37
21 A. Yes, yes it applies, yes. 11:16:38
22 Q. Section 23.1 "Environmental 11:16:40
23 Effects Monitoring Plan"? 11:16:41
24 A. Yes, absolutely applies. 11:16:44
25 Q. Section 24, "Natural Heritage 11:16:46

Page 105

1 some detail in the approval and permitting 11:15:07
2 requirements document. 11:15:10
3 Q. And you have that in front of you, 11:15:11
4 so we'll go to it after we're done with the Reg. 11:15:12
5 Section 14. "List of aboriginal 11:15:17
6 communities, consultation." 11:15:22
7 Is it your understanding that this 11:15:24
8 provision applies to offshore wind facilities? 11:15:25
9 A. Yes, absolutely. 11:15:28
10 Q. Section 15. 11:15:29
11 A. Yes. 11:15:30
12 Q. Notices of project and meetings. 11:15:31
13 Does this apply to -- 11:15:33
14 A. Yes, absolutely. It's exactly the 11:15:34
15 same process. That's the process that I was 11:15:36
16 referring to earlier that is identical for the 11:15:38
17 facilities. 11:15:41
18 Q. Section 16, "Consultation with 11:15:42
19 Public." 11:15:44
20 A. Yes. 11:15:45
21 Q. That applies to offshore wind 11:15:48
22 facilities? 11:15:50
23 A. It absolutely does, yes. 11:15:50
24 Q. Section 17, "Consultation with 11:15:52
25 Aboriginal Communities." 11:15:54

Page 107

1 Assessment"? 11:16:49
2 A. It applies to offshore. 11:16:51
3 Q. Section 25, "Natural Heritage 11:16:52
4 Records Review"? 11:16:54
5 A. It applies. 11:16:56
6 Q. Section 26, "Natural Heritage Site 11:16:57
7 Investigation"? 11:17:02
8 A. Yes, it applies. 11:17:03
9 Q. Section 28 -- 27, pardon me, 11:17:06
10 "Natural Heritage, Evaluation of Significance"? 11:17:11
11 A. Yes, it applies. 11:17:16
12 Q. Section 28, "Confirmation from 11:17:17
13 Ministry of Natural Resources"? 11:17:21
14 A. Yes, absolutely, especially on 11:17:23
15 Crown land. 11:17:26
16 Q. Section 29, "Water Assessment"? 11:17:27
17 A. Yes, it applies. 11:17:30
18 Q. Section 30, "Water Records 11:17:31
19 Review"? 11:17:35
20 A. It applies. It is not highly 11:17:38
21 relevant, but it applies. 11:17:40
22 Q. Section 31, "Water Site 11:17:42
23 Investigation"? 11:17:44
24 A. Yes, it applies. 11:17:45
25 Q. Section-- now I'm jumping ahead 11:17:46

Page 108

1 because there are, unless you want to stop me, I'm 11:17:48
2 not certain that the following provisions actually 11:17:50
3 do apply, but they may have some prohibitions, but 11:17:53
4 the next note that I have in my notes anyway is 11:18:02
5 Section 39. "Water Bodies." 11:18:06
6 A. I believe it applies. 11:18:24
7 Q. And if you look at subsection 2 -- 11:18:25
8 pardon me, subsection 3, then there is a list, and 11:18:30
9 number 2 in that list, it says -- 11:18:33
10 A. Class 5 wind facilities. 11:18:37
11 Q. Correct, if no transformer is 11:18:39
12 constructed, installed or expanded in a project 11:18:42
13 location. 11:18:45
14 So Section 39 applies in those 11:18:45
15 conditions to offshore wind facilities, correct? 11:18:46
16 A. That's correct. 11:18:50
17 Q. Section 40, "Water Bodies 11:18:52
18 Continued?" 11:18:56
19 A. It applies to certain aspects of 11:19:03
20 offshore wind facilities, yes. 11:19:05
21 Q. How about Section 41, "Specified 11:19:08
22 Natural Features and Natural Heritage Systems"? 11:19:10
23 A. Definitely applies to offshore. 11:19:13
24 Q. Section 43, "Specified Natural 11:19:22
25 Features"? 11:19:27

Page 110

1 offshore wind. 11:21:16
2 A. So, in Table 1, it lists a number 11:21:18
3 of documents that we would normally prepare as part 11:21:20
4 of the REA process, and it goes through a long list 11:21:23
5 of them, including a construction plan report, 11:21:28
6 consultation report, decommissioning plan, design 11:21:30
7 and operations report, effluent management plan, 11:21:34
8 which doesn't have an lot of application, emission 11:21:40
9 summary, dispersion modelling report, hydrological 11:21:45
10 assessment report, noise report, odour report, the 11:21:46
11 project description report, surface water assessment 11:21:47
12 report, offshore wind facilities report, and 11:21:50
13 specifications report for class -- that doesn't 11:21:54
14 apply actually, and specification for -- so the 11:21:56
15 majority of these items are the same or on-shore and 11:22:01
16 offshore facilities, with a couple of these items 11:22:03
17 not being applicable to offshore facility because 11:22:07
18 they are not relevant. 11:22:09
19 Q. So could you direct us to which of 11:22:10
20 them are applicable? 11:22:12
21 A. Number 13, the specifications 11:22:14
22 report for class 2 wind facility isn't relevant. 11:22:15
23 Q. Right, so if you could focus on 11:22:18
24 the reports that do apply to offshore wind 11:22:19
25 facilities, please. 11:22:22

Page 109

1 A. Yes, it applies to offshore. 11:19:28
2 Q. Section 44, "Water Bodies." 11:19:31
3 A. Yes, it applies. 11:19:37
4 Q. Section 45, "Water Bodies 11:19:39
5 Continued"? 11:19:42
6 A. It applies. 11:19:43
7 Q. Section 53, Mr. Neufeld already 11:19:54
8 took you to, so I won't do so again. 11:19:57
9 Section 54.1, "Wind Turbine Location 11:20:02
10 Publication"? 11:20:06
11 A. Yes, it applies. 11:20:09
12 Q. Section 55, "Wind Turbines 11:20:14
13 Requirements Relocation"? 11:20:17
14 A. Yes, it also applies to offshore. 11:20:22
15 Q. Section 56, "Great Lakes Charter." 11:20:27
16 A. Yes, definitely applies. 11:20:32
17 Q. Then we get to the table we've 11:20:49
18 seen this morning, and previously, it is actually 11:20:51
19 Section 64.2, and I wonder, Mr. Roeper, if you could 11:20:54
20 walk us through, there are a number of -- this 11:20:58
21 table, as I understand it, is a description of the 11:21:00
22 reports that would be submitted to the regulator 11:21:02
23 with a REA application. Perhaps you could walk the 11:21:06
24 Tribunal quickly through each of the reports that 11:21:10
25 are listed and explain whether they apply or not to 11:21:12

Page 111

1 A. So I believe it's all of them 11:22:23
2 except number 13. 11:22:25
3 Q. So the construction plan report is 11:22:32
4 applicable; that's number 1? 11:22:34
5 A. The construction plan report's 11:22:39
6 applicable, consultation report's applicable, 11:22:41
7 decommissioning plan report is applicable, the 11:22:44
8 design and operations report is applicable to 11:22:44
9 offshore wind facilities. 11:22:48
10 The effluent management plan is 11:22:49
11 applicable, although we don't have a lot of effluent 11:22:52
12 management with offshore facilities. Emission 11:22:54
13 summary, dispersion modelling report, where it 11:22:57
14 applies, would be applicable. The hydrological 11:22:59
15 assessment report would apply for the on-shore 11:23:03
16 components of the offshore facility. 11:23:07
17 The noise study report would certainly 11:23:10
18 apply. The odour study report, where we had such 11:23:12
19 issue, would apply. The project description reports 11:23:16
20 would apply. The surface water assessment report 11:23:18
21 would apply. Certainly the offshore Wind Facilities 11:23:20
22 Report would apply. I think we have had lots of 11:23:23
23 discussions on that one. And the specifications 11:23:26
24 report for wind facilities would apply. 11:23:31
25 Q. And is it your understanding that 11:23:35

Page 112

1 that continues to be true today? 11:23:36
2 A. Absolutely, that is still the 11:23:38
3 case. 11:23:41
4 Q. Mr. Neufeld asked you questions 11:23:41
5 about -- specifically about the offshore wind 11:23:43
6 facility report. 11:23:47
7 I've put before you C-0132, which is 11:23:48
8 the approval and permitting requirement documents 11:23:53
9 for renewable energy projects. 11:23:55
10 Are you familiar with this document, 11:23:57
11 Mr. Roeper? 11:23:59
12 A. Yes, it's part and parcel as what 11:23:59
13 we see to be the REA process from a practitioner's 11:24:01
14 perspective. 11:24:07
15 This outlines in some more detail the 11:24:08
16 steps and requirements of how to complete the 11:24:10
17 process successfully. 11:24:12
18 Q. And if I could direct your 11:24:13
19 attention to page 32, which has a Section 7.2 11:24:15
20 entitled "Offshore Wind Facility Report." 11:24:20
21 A. Yes. 11:24:23
22 Q. Do you have an understanding of 11:24:26
23 how this relates to preparation of the Offshore Wind 11:24:27
24 Facility Report? 11:24:32
25 A. Yeah, it's a small expansion on 11:24:33

Page 114

1 are usually based in some other requirement that we 11:26:03
2 can refer to; an odour standard, a noise standard, 11:26:06
3 and air emission standard, and this pertains 11:26:12
4 specifically to the issue of noise setback 11:26:14
5 requirements. And this actually provides some 11:26:18
6 clarification for practitioners to how we should 11:26:23
7 view setback requirements, and it says: 11:26:27
8 "Offshore wind facilities 11:26:28
9 require a REA." 11:26:32
10 Which we of course we know: 11:26:33
11 "They do not have 11:26:36
12 a province-wide standard 11:26:36
13 setback at this time." 11:26:37
14 Which we also know, and still don't: 11:26:38
15 "Each application will be 11:26:42
16 reviewed and based on local 11:26:42
17 situation." 11:26:44
18 Which then refers us back to looking 11:26:45
19 at each facility on a site-specific basis using the 11:26:47
20 site facility report: 11:26:53
21 "Applicants need to conduct 11:26:54
22 noise studies demonstrating 11:26:55
23 they do not exceed a noise 11:26:57
24 level of 40-decibels." 11:26:59
25 And this is really important to us, 11:27:01

Page 113

1 what's in the regulation under Table 1, Section 12 11:24:38
2 for the Offshore Facilities Report, so what it tries 11:24:41
3 to do is give a little more meat on what we're 11:24:44
4 supposed to put into a Wind Facilities Report, and 11:24:47
5 gives us a main topic area, such as shipping channel 11:24:50
6 locations, fishery zones, location of submarine 11:24:53
7 cables, location of existing disposed lake bed 11:24:58
8 location, or other grid cells, oil and gas licences, 11:25:01
9 fish habitat, fish populations, vegetation species 11:25:04
10 and hazard lands. 11:25:09
11 So it provides us essentially the 11:25:11
12 chapter heading for our Offshore Facilities Report. 11:25:14
13 Q. Okay, you have in front of you 11:25:18
14 a document of Exhibit No. C-0791. 11:25:19
15 Mr. Neufeld, this morning, asked you 11:25:24
16 some questions about the setback requirement that 11:25:26
17 applied at the time the REA regulation was adopted. 11:25:32
18 Does this document help refresh your 11:25:39
19 memory as to the requirements that were in effect at 11:25:42
20 that time? 11:25:46
21 A. Yeah. So, this is very relevant, 11:25:48
22 because what I was trying to say earlier is that, in 11:25:50
23 my experience, under the 11:25:56
24 Environmental Protection Act, the government doesn't 11:25:58
25 come up with a lot of arbitrary requirements. They 11:26:01

Page 115

1 because what this tells us is that we are applying 11:27:02
2 exactly the same 40-decibel requirement that we've 11:27:06
3 been applying to on-shore wind. We would use 11:27:08
4 similar modelling approaches to determine whether or 11:27:12
5 not on a site-specific basis we have that impact, 11:27:14
6 and the criteria against which we will be assessed 11:27:17
7 for pass or fail will be the 40-decibel. 11:27:21
8 Q. Okay. 11:27:24
9 A. So at the time this was put out, 11:27:25
10 that was really useful guidance to have. 11:27:26
11 Q. Mr. Neufeld asked you about the 11:27:32
12 uncertainty that existed in 2010 regarding the 11:27:35
13 outcome of the proposal to implement the 11:27:41
14 five-kilometre shoreline exclusion zone, and I think 11:27:43
15 you said that there was some uncertainty. 11:27:47
16 I wonder if you could expand on that 11:27:51
17 comment in light of what happened afterwards, 11:27:53
18 including the adoption of the moratorium? 11:27:56
19 A. Including the adoption of? 11:27:59
20 Q. The moratorium. 11:28:00
21 A. The moratorium. So, with respect 11:28:01
22 to uncertainty, there was uncertainty, there is 11:28:05
23 uncertainty in this -- there is uncertainty with 11:28:08
24 every project that we work on, but when we were 11:28:12
25 working on the Wolfe Island Shoals Project, and 11:28:18

Page 116

1 I tried to say this earlier, we had the regulation 11:28:25
2 in place. We had the sort of the guidebook 11:28:28
3 available to us as to how to complete the process. 11:28:32
4 We knew the regulations in the guidebook applied to 11:28:35
5 offshore wind. 11:28:38
6 The one piece we were missing was 11:28:39
7 details on the Offshore Facilities report, and we 11:28:41
8 knew they were working on guidance on that. So 11:28:45
9 clearly there was uncertainty about what exactly 11:28:48
10 would be in the guidance, but we saw that in the 11:28:50
11 context of the government had not put any other 11:28:52
12 requirements on any other projects that would not be 11:28:57
13 reasonably met, and it was my expectation at the 11:29:00
14 time that we would be reasonably able to meet those 11:29:06
15 guidelines. 11:29:08
16 As a matter of fact, I thought we 11:29:09
17 would meet them with the initial layouts of the 11:29:10
18 two-kilometre setback that we did. 11:29:12
19 I was a little surprised when the 11:29:15
20 government rolled out a five kilometre, and I was 11:29:16
21 trying to rationalize in my mind why are we talking 11:29:18
22 about five kilometres when our technical experts are 11:29:22
23 telling me two kilometres would probably meet the 11:29:25
24 40-decibel rule? And which also triggered us to put 11:29:30
25 comments in on that particular issue to the 11:29:34

Page 118

1 schedule, you've seen a number of those project 11:30:47
2 schedules in our plans, and we try to set out what 11:30:50
3 has to be done within different timeframes. 11:30:52
4 And we knew that we needed to plan the 11:30:55
5 fieldwork for the spring of -- particularly the 11:30:57
6 fieldwork for the spring of 2011, and we went out 11:30:59
7 for procurement on who would do that work for us and 11:31:02
8 who was best suited to complete that work for us. 11:31:07
9 Does that answer your question? 11:31:10
10 Q. Yes, thank you. And one very last 11:31:11
11 brief question, you mentioned Pearl Ing in an email 11:31:14
12 in the context of an email back and forth. Could 11:31:17
13 you tell us who Ms. Ing is and what her position and 11:31:19
14 role is in the government? 11:31:24
15 A. So I believe Pearl Ing was a 11:31:25
16 Director at MEI involved in the Renewable Energy 11:31:28
17 Facilitations Office. 11:31:30
18 Q. Otherwise known as REFO? 11:31:31
19 A. REFO, yeah. And as we understood 11:31:33
20 it at the time, was that REFO was going to help 11:31:36
21 coordinate the involvement of various government 11:31:39
22 departments. 11:31:42
23 Obviously there is a lot going on. 11:31:44
24 You have the MNR, MOE, and possibly as is listed in 11:31:45
25 some of this stuff, other government departments 11:31:48

Page 117

1 government in saying let's get back to the 40-dB, 11:29:35
2 and let's get back to the actual requirements, and 11:29:37
3 let's be specific about definitions under 11:29:40
4 the Environmental Protection Act, which usually 11:29:43
5 refer to receptor locations, not -- and sorry I got 11:29:45
6 this wrong -- with the shorelines -- 11:29:45
7 Q. The water's edge? 11:29:47
8 A. -- but water's edge location. 11:29:49
9 And so it was my expectation that, 11:29:53
10 yes, there could be some specifics on the rule 11:29:55
11 changes for what would be the guidance requirements 11:29:59
12 for how to complete noise modelling under the Wind 11:30:01
13 Facilities Report. 11:30:04
14 I did not expect it to become 11:30:06
15 a significant obstacle to finishing the overall 11:30:09
16 process. 11:30:16
17 Q. Mr. Neufeld asked you questions 11:30:18
18 about the timing of your decision in the fall of 11:30:19
19 2010 on behalf of Windstream to issue an RFP to 11:30:24
20 engage consultants to conduct environmental 11:30:28
21 permitting work, to expand on the drivers, please, 11:30:31
22 of that timing, when you -- why you made that 11:30:34
23 decision at that time, or why Windstream did? 11:30:37
24 A. So we do this very closely with 11:30:42
25 our clients, so we plan our overall project 11:30:44

Page 119

1 that could be affected. REFO's role, as we 11:31:51
2 understood it, was to facilitate and coordinate 11:31:54
3 communication dialogue and answer questions for us 11:31:58
4 that we might have on the process. 11:32:01
5 Q. Thank you very much, Mr. Roeper, 11:32:03
6 those are our questions. 11:32:04
7 PRESIDENT: Thank you, Ms. Seers. Any 11:32:09
8 questions? 11:32:10
9 DR. CREMADES: You said that you are 11:32:15
10 not an environment lawyer, but it seems that you 11:32:17
11 have such a practice that you could be considered as 11:32:24
12 a honorary lawyer. And my question is the 11:32:29
13 following: You have said that never you can take it 11:32:36
14 for granted that you are going to get the permit, 11:32:41
15 the environment permit. 11:32:46
16 You say that you have been dealing 11:32:48
17 with hundreds of applications. I mean, when someone 11:32:50
18 gets an FIT, like Windstream, what is the 11:32:56
19 expectations they might have in a situation like 11:33:00
20 this? 11:33:04
21 THE WITNESS: So I think we saw it in 11:33:09
22 the context of the overall government program to 11:33:13
23 roll-out renewable energy in Ontario. 11:33:16
24 And these are my personal views of how 11:33:20
25 I kind of see what was going on at the time. 11:33:23

Page 120

1 In 2009 there was a lot of excitement 11:33:25
2 in the industry, including in the consulting 11:33:27
3 industry that I work in, about the government really 11:33:30
4 wanting to do renewable energy projects, and trying 11:33:32
5 to facilitate to make that happen. 11:33:34
6 We viewed the shift from -- from the 11:33:37
7 Environmental Assessment Act to the Protection Act 11:33:41
8 as a way to facilitate and expedite permits, make 11:33:44
9 them faster, and especially remove the question of 11:33:47
10 not if we are building these facilities, the 11:33:49
11 government had already decided we were going to 11:33:52
12 build these facilities. It was how to build them 11:33:54
13 correctly and how to build them with the right 11:33:56
14 setbacks, with the right noise limits, with the 11:33:58
15 right standards that environmental impacts would be 11:34:01
16 addressed and protected. 11:34:04
17 So, in the context of that FIT, my 11:34:06
18 expectation was that government would do what it 11:34:11
19 could do in terms of facilitating us to complete 11:34:17
20 that process as proponents, as consultants. So they 11:34:21
21 laid out the plan for us. 11:34:25
22 The plan was to build 2,000-megawatts 11:34:27
23 of renewable energy, facilitated that by moving 11:34:29
24 or -- in moving or flattening out some of the 11:34:34
25 regulatory wrinkles we had in site release and 11:34:39

Page 122

1 for me on February 11th when it came out, because 11:36:00
2 I would have thought we were moving towards 11:36:03
3 completing the setback discussions, much protracted, 11:36:06
4 much delayed, but I thought we were completing them. 11:36:09
5 So the moratorium, I think, if effect, in my view, 11:36:12
6 and I'm not a lawyer, in my view, made it impossible 11:36:14
7 to proceed with that project. 11:36:20
8 And I didn't understand why we needed 11:36:21
9 to take that step, because I knew there was, in the 11:36:22
10 public consultation groups that wanted no wind 11:36:27
11 development period, no on-shore or offshore, that 11:36:31
12 certainly there were groups that didn't want 11:36:35
13 offshore development or groups that had submitted 11:36:36
14 things about setback distances on offshore. But we 11:36:39
15 have had that for on-shore, we have had that for 11:36:43
16 water power, and we have had that for other 11:36:46
17 industries, and I think there were ways to address 11:36:48
18 that. 11:36:50
19 And coming up with a reasonable, 11:36:51
20 pragmatic setback requirement would have settled 11:36:52
21 that issue. It would have addressed some of the 11:36:56
22 issues that people had, and it would have allowed us 11:36:59
23 to proceed forward. 11:37:01
24 So do I feel it was -- Windstream was 11:37:02
25 treated fairly? No, I think the moratorium is one 11:37:04

Page 121

1 approvals in other areas, and to me it was go, go, 11:34:42
2 go. 11:34:45
3 To me it was the government wanted to 11:34:46
4 do this and we're building this thing. 11:34:48
5 DR. CREMADES: Did you have a feeling 11:34:52
6 dealing with this company that they were treated 11:34:53
7 unfairly by the government, and especially in 11:34:57
8 comparison with other projects you have been getting 11:35:02
9 in the past? 11:35:06
10 THE WITNESS: Well, that is a big 11:35:07
11 question to ask me. 11:35:08
12 DR. CREMADES: That's the consequence 11:35:12
13 of being an honorary lawyer. 11:35:14
14 (LAUGHTER) 11:35:17
15 THE WITNESS: If I look at how many 11:35:20
16 successful projects we had in the REA process in the 11:35:21
17 FIT program, they were not dealt with fairly. 11:35:26
18 If I look at how the gas plant 11:35:33
19 situation was dealt with, where, in my mind, the 11:35:35
20 government did the honourable thing and went to the 11:35:38
21 proponents and said "we no longer want to execute 11:35:40
22 this contract, we want to terminate this contract," 11:35:45
23 and they went and negotiated a contract break and 11:35:47
24 the settlement, I -- I've -- my own personal opinion 11:35:50
25 is the moratorium was not only completely unexpected 11:35:55

Page 123

1 of the most unusual tools I've seen used in my 11:37:06
2 practice over the years. I have not been involved 11:37:11
3 in any other moratorium, although there might have 11:37:13
4 been some. And I was really surprised by the 11:37:16
5 moratorium, and I don't think it was a fair thing to 11:37:20
6 do for Windstream or for the offshore industry as 11:37:24
7 a whole. 11:37:27
8 DR. CREMADES: How about the treatment 11:37:29
9 of the force majeure by the government? 11:37:31
10 THE WITNESS: The treatment of the 11:37:35
11 force majeure? 11:37:36
12 DR. CREMADES: Yes. I mean the fact 11:37:37
13 that it was not granted the force majeure, I mean 11:37:38
14 the way the government dealt with that? 11:37:41
15 THE WITNESS: Yeah, I view that -- you 11:37:43
16 know, again, these are my personal views, I'm not 11:37:45
17 a lawyer. The force majeure relates specifically to 11:37:48
18 a contract provision with OPA. And OPA has been 11:37:51
19 appointed by the government to be the firm hand that 11:37:54
20 manages and administers these contracts. Everybody 11:37:58
21 wants one of those contracts. Not everybody can 11:38:02
22 have one. And if you execute a contract, I think 11:38:04
23 the public expects that you will be held accountable 11:38:06
24 and execute that contract in a responsible manner. 11:38:09
25 In that context, I think the OPA, as 11:38:16

Page 124

1 manager of contracts, should often say "no." So 11:38:20
2 we've been involved in other files where we've 11:38:27
3 helped clients make application for force majeure on 11:38:29
4 other files. And my experience has been with OPA, 11:38:33
5 they often have said no to those on first run, and 11:38:37
6 I think that's the right response for a contract 11:38:41
7 manager to take. 11:38:43
8 So, if I were in their shoes, and 11:38:44
9 I was managing a contract, a lot of occasion my 11:38:47
10 first response would be no, until somebody can 11:38:50
11 explain to me with a lot of good reason why I should 11:38:53
12 move off that position. And I think that reflects 11:38:57
13 some of the dealings with OPA, and I think, as 11:39:01
14 contract manager, that's how I would expect them to 11:39:06
15 act, but I don't think that reflects necessarily the 11:39:09
16 government. I think that reflects their role as 11:39:11
17 contract manager. 11:39:13
18 DR. CREMADES: How about the situation 11:39:16
19 in which the government has not given back the 11:39:16
20 letter of credit to Windstream at the actual 11:39:19
21 situation? 11:39:24
22 THE WITNESS: So I haven't been 11:39:25
23 involved in that, but it seems most bizarre to me, 11:39:26
24 because there were a number of other projects 11:39:30
25 cancelled, and OPA had an amnesty for people wanting 11:39:32

Page 126

1 a company pushing his staff really hard to get a new 11:40:59
2 product out and onto the market, and I think the 11:41:02
3 mantra in 2008, 2009, and early 2010 was let's get 11:41:08
4 it done, let's get it done, and I saw some obstacles 11:41:12
5 within the Ministries to actually get this stuff 11:41:21
6 done. 11:41:24
7 MOE, in my mind, pulled off a miracle 11:41:25
8 in 2009 when it rolled out REA. 11:41:28
9 It is a very complicated new 11:41:31
10 regulation. It affects a whole bunch of other Acts, 11:41:32
11 and it got put out in record time. 11:41:34
12 The way that happened, in my view, is 11:41:37
13 that there was a lot of pressure from up top, from 11:41:39
14 the government itself, from Cabinet to make stuff 11:41:42
15 happen, and we responded, in my mind, did an awesome 11:41:45
16 job of rolling out REA in a very short period of 11:41:48
17 time, subject to a few wrinkles that we saw in the 11:41:50
18 wind facilities. There was stuff they couldn't get 11:41:54
19 done just in time, but the overall intent was there. 11:41:57
20 So, was Windstream dealt with 11:41:59
21 differently? You know, I think you have to see it 11:42:00
22 in that context for the bureaucracy. I don't think 11:42:03
23 the bureaucracy necessarily takes views, but when 11:42:05
24 the bureaucracy senses a change in direction, it 11:42:08
25 will respond to that. So when the government says 11:42:10

Page 125

1 to run the FIT contract that were frustrated in 11:39:36
2 regulatory process. 11:39:39
3 So I actually am aware, and have been 11:39:41
4 involved in with other clients and other files that 11:39:43
5 I can't speak about here, where we literally 11:39:45
6 returned FIT contracts and got deposits back. So 11:39:50
7 it's not at all clear to me why FIT stream -- 11:39:54
8 Windstream did not get their deposit back, but then 11:39:58
9 I wasn't specifically involved in their particular 11:40:04
10 application to get their deposit back, so I don't 11:40:05
11 know the circumstances. 11:40:07
12 DR. CREMADES: One last question: Do 11:40:08
13 you have the feeling that Windstream was treated on 11:40:09
14 a personal level differently as other clients you 11:40:14
15 have? 11:40:18
16 THE WITNESS: The sheep follow the 11:40:26
17 leader. Sometimes in the bureaucracy -- and I'm not 11:40:29
18 trying to be hard on the bureaucracy, they have 11:40:35
19 a tough job -- bureaucracies are doing their best to 11:40:39
20 manage the process. In 2008, 2009, 2010, there was 11:40:43
21 a lot going on. They were being asked to come out 11:40:45
22 with new protocols, procedures and all kinds of 11:40:47
23 stuff, and there was a lot of pressure put by the 11:40:50
24 government on the bureaucracy to execute. 11:40:53
25 So, not unlike a president of 11:40:57

Page 127

1 "go," the bureaucracy will take that lead, and the 11:42:14
2 sheep in the bureaucracy will follow that lead. 11:42:17
3 If the government says stop, that will 11:42:21
4 very quickly trickle down, and unfortunately, in our 11:42:22
5 regulatory system in Ontario, we give a lot of 11:42:25
6 discretionary powers to the bureaucracy and to the 11:42:28
7 Minister, and in that discretionary framework, and 11:42:30
8 I may be way overstepping my bounds in how I view 11:42:33
9 the regulatory system in Ontario, but as 11:42:36
10 a practitioner in that system, I think we've put 11:42:38
11 a lot of onus on Ministers to be the final 11:42:42
12 decision-maker in a number of Acts, especially the 11:42:45
13 regulatory Acts in MNR and MOE, and we give a lot of 11:42:48
14 discretionary power to the bureaucracies and 11:42:52
15 sometimes the bureaucracies tend to over-interpret 11:42:55
16 their role. They see themselves as being the 11:42:58
17 mouthpiece of the Ministers, so sometimes they 11:43:00
18 over-speak. 11:43:02
19 I don't think any of that is done 11:43:03
20 necessarily with ill-intent, because a bureaucracy 11:43:05
21 follows the lead from on top, and whatever happens 11:43:08
22 up there is what the bureaucracy tries to -- 11:43:11
23 DR. CREMADES: We come always back to 11:43:15
24 politics. Thank you. 11:43:16
25 MR. BISHOP: I have less interesting 11:43:24

Page 128

1 questions; a couple of technical questions. We 11:43:26
2 looked at some of the layouts of your project that 11:43:27
3 your group had done. Were all points of the project 11:43:32
4 a minimum of five kilometres from the shoreline? 11:43:34
5 THE WITNESS: So we do a number of 11:43:38
6 layouts, so we started in -- before we knew about 11:43:39
7 the five kilometres, we had worked on two kilometres 11:43:42
8 based on the 40-decibel that was in Exhibit C-141. 11:43:45
9 So we took that kind of as a guide 11:43:50
10 post, and said with two kilometres we can meet the 11:43:52
11 receptor requirements for Ontario. 11:43:56
12 When the five kilometres came out, it 11:43:58
13 did throw us for a bit of a loop because we said 11:43:59
14 "Five, where did they come up with five?" It is 11:44:01
15 really conservative under any noise model that we 11:44:05
16 could think of. So it pushed us into a position 11:44:08
17 where we had to do multiple layouts, and then we did 11:44:12
18 a variety of scenarios for those layouts, and some 11:44:14
19 of them were more conservative and some of them were 11:44:17
20 less conservative. 11:44:22
21 I think -- I'm not sure if the most 11:44:23
22 conservative one met all the constraint requirements 11:44:25
23 for all the turbines, but even the very conservative 11:44:27
24 model layouts that we did showed us that we could 11:44:32
25 still fit the project and get it done. 11:44:34

Page 130

1 check that. 11:45:51
2 So drinking water was out there 11:45:51
3 potentially as an issue, but not an issue that we 11:45:53
4 deemed to be important or significant. 11:45:56
5 First of all, offshore wind facilities 11:45:59
6 don't emit a lot of contaminants, and, secondly, we 11:46:01
7 were a long ways from any plausible water intakes, 11:46:05
8 for example, City of Kingston. 11:46:09
9 So from a kind of practitioner's 11:46:11
10 perspective, looking at what are the plausible 11:46:13
11 issues we might be facing, the drinking water 11:46:15
12 intakes were kind the furthest on my mind at that 11:46:17
13 time. 11:46:20
14 MR. BISHOP: Okay, you weren't 11:46:21
15 involved in obtaining the FIT contract, were you? 11:46:23
16 THE WITNESS: In obtaining the FIT 11:46:27
17 contract? 11:46:28
18 MR. BISHOP: Yes. 11:46:30
19 THE WITNESS: Well, we were involved 11:46:30
20 in helping Windstream do the application in the fall 11:46:31
21 of 2009. 11:46:33
22 MR. BISHOP: Oh, you were? 11:46:35
23 THE WITNESS: Yes, we helped 11:46:36
24 Windstream prepare the application, and we assisted 11:46:37
25 Windstream with some of the pre-contract signing 11:46:40

Page 129

1 I know that's been sort of questioned 11:44:36
2 and argued about, and my personal view is there was 11:44:39
3 a lot of surface area there, provided we got the 11:44:43
4 swap, which the letter from MNR gave us a lot of 11:44:47
5 comfort in August that we would get the land swap, 11:44:51
6 which we requested fairly early on, that we could 11:44:53
7 lay out that project and get it done. 11:44:56
8 And if there really was a layout and 11:44:58
9 a requirement was really restrictive, the FIT 11:45:01
10 contract had a provision to slightly downsize the 11:45:05
11 project. They had some downsizing provisions in the 11:45:07
12 FIT contract. Not that I think we would have used 11:45:10
13 those, but that would have provided the mechanics if 11:45:12
14 we had to lose the odd turbine due to shipping lane 11:45:15
15 constraints or other stuff. 11:45:19
16 MR. BISHOP: Prior to the moratorium, 11:45:21
17 were there discussions about a need to do drinking 11:45:22
18 water studies? 11:45:26
19 THE WITNESS: So the drinking water 11:45:29
20 stuff is implicitly contained in some of the stuff 11:45:31
21 we went through a few minutes ago. It is something 11:45:35
22 we would have looked at. And the drinking water 11:45:37
23 stuff, I believe, was water intakes were mentioned, 11:45:42
24 I believe, in a June 25th consultation 11:45:46
25 documentation, although I'd have to go back and 11:45:48

Page 131

1 work, of course. 11:46:43
2 MR. BISHOP: What is required to get 11:46:44
3 a FIT contract? 11:46:46
4 THE WITNESS: Well, FIT was really 11:46:49
5 straightforward, so we've had a series of 11:46:50
6 procurements in Ontario. They were all a little 11:46:53
7 different. We have had competitive RFPs, we have 11:46:56
8 had a standard offer program, and then we have had 11:46:59
9 the FIT program. 11:47:01
10 Out of all of those, the FIT program 11:47:02
11 was probably the simplest. Different programs had 11:47:04
12 different requirements. One of the things we 11:47:07
13 lamented was stop changing the rules every time you 11:47:09
14 come up with a procurement. 11:47:12
15 The intent was good, because they 11:47:13
16 wanted to procure, but the rules were changing 11:47:16
17 slightly. FIT was probably cleanest of them all. 11:47:16
18 FIT set a standard price so OPA had done -- to my 11:47:20
19 knowledge and understanding, OPA had done work on 11:47:23
20 the pricing and timelines relevant to executing 11:47:26
21 those projects. 11:47:29
22 There were very few preamble 11:47:31
23 requirements in the FIT application process. Some 11:47:34
24 of the earlier ones did. Some of the earlier ones 11:47:36
25 required that certain technical steps were 11:47:40

1 completed. FIT took that away. FIT essentially 11:47:42
2 said "You don't need to have applied for grid 11:47:44
3 application. When you win a FIT contract, that 11:47:46
4 means we will give you a capacity allocation at the 11:47:49
5 same time." So it took away the whole grid 11:47:52
6 assessment issue. It didn't require environmental 11:47:55
7 work to be done upfront. So FIT was the simplest of 11:47:57
8 the procurement processes we have had. 11:48:01
9 MR. BISHOP: Did it require the 11:48:07
10 applicants to meet certain requirements to show that 11:48:07
11 they were technically and financially capable of 11:48:11
12 doing the project? 11:48:16
13 THE WITNESS: No, not to -- the only 11:48:18
14 criteria, other than selection criteria, so you 11:48:23
15 needed to show that you had site right status. 11:48:26
16 Windstream obtained a letter in the fall of 2009 11:48:29
17 from Minister Cansfield confirming that they had 11:48:32
18 enough site status to apply for the FIT program. 11:48:36
19 You need to put a deposit. I think 11:48:40
20 the deposit was considered the financial 11:48:42
21 wherewithal, because in other previous ones you had 11:48:45
22 to submit financial commitment letters and stuff 11:48:47
23 like that that wasn't required in FIT. So in FIT 11:48:50
24 all we had was the deposit amount as credibility 11:48:53
25 that we were serious about executing. 11:48:55

1 concurrently of building a bunch of renewable and 11:50:26
2 clean-energy gas assets in Ontario. And the FIT 11:50:29
3 program very much aligns with that need at the time 11:50:33
4 to buy electricity, to build electricity generation 11:50:36
5 facilities. 11:50:42
6 I know that's been questioned in the 11:50:43
7 media since then several times, but the view at that 11:50:44
8 time was we needed more generation at that time. 11:50:48
9 That was later criticized because we 11:50:50
10 currently have an excess of power at certain times. 11:50:53
11 We have nighttime surplus, baseload generation, 11:50:57
12 which gets talked about in the media a lot. 11:51:01
13 That baseload surplus generation is 11:51:04
14 an artifact I think of having a successful 11:51:07
15 procurement program from 2004 until recent, and the 11:51:11
16 fact that we have had an economic downturn in 2008 11:51:15
17 that reduced load. So at the time that the FIT 11:51:20
18 program was rolled out, the government was very much 11:51:22
19 of the view that we needed that capacity and wanted 11:51:26
20 to bring it on line. 11:51:28
21 That was my understanding why we were 11:51:30
22 doing all of this. 11:51:32
23 MR. BISHOP: Okay, thank you. 11:51:40
24 PRESIDENT: Just a couple of more 11:51:44
25 questions. One on the FIT contract. 11:51:45

1 And you had the option, under the FIT 11:49:01
2 submission rules, to elect to complete your projects 11:49:04
3 earlier, and that would have given you score points, 11:49:11
4 that would have maybe ranked you ahead of another 11:49:14
5 project. But those were the three basic 11:49:18
6 requirements for applying for FIT. 11:49:20
7 MR. BISHOP: Well, explain to me 11:49:28
8 conceptually how this works. I'm assuming that when 11:49:29
9 the OPA enters into a FIT contract, that they are 11:49:33
10 contractually committing to buy the power that comes 11:49:38
11 out of that project; is that correct? 11:49:41
12 THE WITNESS: Yeah, it's a big deal, 11:49:43
13 because not just contractually committing to buy the 11:49:44
14 power, but they are committing to buy for 20 years. 11:49:52
15 MR. BISHOP: So doesn't that imply 11:49:55
16 that, in entering into the contract, they believe 11:49:55
17 there is a need for the power that's going to come 11:49:58
18 out of that project? 11:50:03
19 THE WITNESS: Well, the FIT project 11:50:10
20 program was tied to long-term energy planning in 11:50:11
21 Ontario, which was tied back to closing of coal 11:50:14
22 plants and an overall management of supply mix and 11:50:14
23 supply in Ontario, and dating back a few years 11:50:17
24 earlier, but we had the announcement of closing of 11:50:20
25 the coal plants, and the announcement almost 11:50:25

1 I understand it was a standard 11:51:49
2 contract with the same timelines for each project, 11:51:51
3 regardless of the size and shape of the project. 11:51:54
4 Was that surprising for you that you would have the 11:51:57
5 same timelines for commercial operation, for 11:52:00
6 instance, for a 500-megawatt project, or 300, in 11:52:04
7 this case, or a much smaller project? 11:52:07
8 THE WITNESS: So just to clarify, the 11:52:11
9 timelines were not the same for all the 11:52:13
10 technologies, but the timelines were the same for 11:52:15
11 different sizes of projects within the same class, 11:52:17
12 or within the same type. 11:52:19
13 So there were actually different 11:52:21
14 timelines, because I think OPA had tried to do 11:52:24
15 a best guess on how long it would take to permit 11:52:27
16 a solar facility an on-shore wind facility and an 11:52:29
17 offshore wind facility, and they had different 11:52:34
18 timelines. Sorry, I've ... can you repeat the 11:52:36
19 question? 11:52:39
20 PRESIDENT: Okay, that was useful 11:52:39
21 clarification. So was there a same timeline for all 11:52:40
22 types of wind projects, on-shore and offshore? 11:52:44
23 THE WITNESS: The timelines for 11:52:48
24 on-shore and offshore were different. The timelines 11:52:49
25 for offshore had more time than the on-shore. 11:52:52

Page 136

1 11:52:56
2 PRESIDENT: Were the timelines when 11:52:56
3 you saw them in the FIT program for offshore wind, 11:52:57
4 did you see them as being realistic from 11:53:01
5 an engineering perspective? 11:53:05
6 THE WITNESS: You know, all the 11:53:07
7 timelines were not overly generous. I think the 11:53:08
8 context, as we saw it at the time, was it was 11:53:12
9 doable, but you've got to -- you've got to pick up 11:53:16
10 your boots and get on the ground. 11:53:18
11 And I think that reflects some of the 11:53:21
12 comments we made about the emails that came up 11:53:24
13 an hour ago where we say "We're desperate to get out 11:53:26
14 in the field and do field work" because we knew we 11:53:30
15 had a four-year timeline at that time. So we 11:53:34
16 thought it was entirely doable, but we had to get on 11:53:36
17 with executing the program. 11:53:40
18 Now, we're used to that, so when -- 11:53:41
19 we've been involved in numerous infrastructure 11:53:43
20 projects. I've built a project, a \$130-million wind 11:53:46
21 project on-shore from early conception right through 11:53:52
22 to commissioning, and we are still involved in 11:53:56
23 operating that project. We have the same with a 11:53:58
24 solar project, a \$45-million solar project, from 11:54:00
25 very early stage to operations, and we operate that 11:54:05

Page 138

1 by July of the next year. And despite the fact that 11:55:24
2 that was one of the coldest winters on record in 11:55:30
3 Ontario, and one of the snowiest for that part of 11:55:33
4 Ontario, we finished construction of that project in 11:55:38
5 the middle of June of 2015 on time and on schedule. 11:55:40
6 It's how it's done. So, we know there are 11:55:43
7 timelines. We know the timelines are not overly 11:55:47
8 generous. Our job, as project managers, is to make 11:55:50
9 it happen. 11:55:53
10 If we really don't think it can 11:55:54
11 happen, we'll say so, and it's better to speak up 11:55:55
12 earlier in the process than late. So was the four 11:55:59
13 years tight? Yeah, it was tight, but it was doable. 11:56:02
14 PRESIDENT: Thank you. Then 11:56:07
15 a completely different issue. You mentioned the 11:56:07
16 site description package a couple of times. Just to 11:56:09
17 educate us on the Tribunal, what is this package 11:56:12
18 about? What is the regulatory basis, purpose of it, 11:56:17
19 and what does it contain? 11:56:20
20 THE WITNESS: So the site description 11:56:23
21 package falls out of MNR's site release process. So 11:56:24
22 MNR, unfortunately, has really wrestled with the 11:56:28
23 site release process for many years. We have seen 11:56:31
24 many iterations of site release process, windows 11:56:35
25 opened, windows closed where you could and could not 11:56:37

Page 137

1 project now. 11:54:07
2 The timelines are short, but the way 11:54:09
3 these infrastructure projects work is you have to 11:54:12
4 meet the timeline, so you design your program around 11:54:15
5 meeting a timeline. 11:54:18
6 We do that in a number of ways. So, 11:54:19
7 for example, when we enter into construction 11:54:21
8 contracts, we don't do it the way I do my home 11:54:24
9 renovation projects, where I hire a contract and it 11:54:28
10 takes three weeks and then six weeks and then nine 11:54:31
11 weeks, and then after 12 weeks we're still not done. 11:54:33
12 And I'm a better project manager for large projects 11:54:35
13 than I am for my own home renovations, is what the 11:54:38
14 point might be. But when we do these projects, we 11:54:42
15 bring them in largely on budget and on schedule. We 11:54:45
16 have to. 11:54:49
17 Number one, the contracts require it 11:54:50
18 on the PPA side, in this case on the FIT contract 11:54:53
19 side, and we design the construction contracts in 11:54:57
20 that way with contractors, and they get done. 11:55:00
21 And a good example is we issued -- in 11:55:03
22 the fall of 2013 we issued a contract to Ellis-Don 11:55:06
23 to construct a \$45-million solar farm project in 11:55:15
24 London, Ontario under a FIT contract. 11:55:18
25 And that project had to be completed 11:55:20

Page 139

1 apply. And it's been a challenging process. 11:56:41
2 Part of the site release process for 11:56:44
3 several years now has been that once you apply for, 11:56:46
4 in this case, grid cells, or a piece of Crown land 11:56:48
5 to do a project on, one of the first steps in that 11:56:51
6 process is to file the application. The response to 11:56:55
7 the application is the site description package from 11:56:57
8 the Crown. 11:57:00
9 And what MNR -- and my view of what 11:57:01
10 MNR tries to do with that, because I've seen 11:57:03
11 a number of these site description packages in my 11:57:05
12 practice, is inform us on what issues MNR perceives 11:57:08
13 to be for that project. 11:57:11
14 So on the projects that I have seen, 11:57:14
15 it would tell us of trap lines in the area, 11:57:15
16 commercial fishing that's occurring, and anything 11:57:19
17 that's on their record with respect to the project 11:57:22
18 that we need to know about, habitat areas that have 11:57:24
19 been mapped and identified. 11:57:28
20 PRESIDENT: Sort of a disclosure? 11:57:30
21 THE WITNESS: It's a disclosure from 11:57:31
22 their side saying "Guys, be careful. We got your 11:57:32
23 application. We know you want to build a project 11:57:36
24 there. Here's some you of the stuff that we know 11:57:38
25 about that area that you need to know about if you 11:57:41

Page 140

1 want to plan a project there " 11:57:44
2 That's what I believe a site 11:57:46
3 description package is 11:57:47
4 PRESIDENT: That's very helpful That 11:57:48
5 brings the Tribunal's questions to the end 11:57:50
6 Do the Tribunal's questions give rise 11:57:54
7 to any further questions by the parties? 11:57:58
8 MR NEUFELD: One small question 11:58:02
9 PRESIDENT: Mr Neufeld, please go 11:58:03
10 FURTHER CROSS-EXAMINATION BY MR NEUFELD: 11:58:06
11 Q Hello again This question 11:58:09
12 arising from Mr Bishop's questions in terms of the 11:58:15
13 layout For these purposes, I'd like to go to the 11:58:18
14 FIT contract You don't have it in your binder, but 11:58:21
15 this is where the technology helps us, and maybe 11:58:24
16 Donnie can pull up Exhibit R-0092, which is the FIT 11:58:27
17 contract 11:58:33
18 And this pertains to -- so Mr Bishop 11:58:37
19 asked about the layout, and you had signalled that 11:58:40
20 you were satisfied that you could move the project, 11:58:43
21 you could also downsize the project 11:58:45
22 I'd like to have a look specifically 11:58:48
23 at Section 2 1(c) of the FIT contract You can see 11:58:50
24 that? 11:59:19
25 A I see it 11:59:20

Page 142

1 Q. Thank you. 12:00:08
2 PRESIDENT: Okay, Mr. Neufeld. 12:00:13
3 Anything from the Claimant? 12:00:14
4 MS. SEERS: Yes, a few questions. 12:00:16
5 PRESIDENT: Okay. 12:00:18
6 THE WITNESS: I think I'm more popular 12:00:32
7 than I want to be. 12:00:33
8 FURTHER RE-EXAMINATION BY MS. SEERS: 12:00:34
9 Q. We'll see if the Tribunal has 12:00:37
10 additional questions arising from these questions. 12:00:38
11 Mr. Roeper -- pardon me, in my haste 12:00:42
12 to get the lunch break. 12:00:43
13 A. My testimony must have been very 12:00:51
14 confusing to get all these additional questions. 12:00:53
15 Q. You're knowledgeable in so many 12:00:57
16 areas. 12:00:59
17 Mr. Roeper, Dr. Cremades asked you 12:01:00
18 about the force majeure situation that applied to 12:01:04
19 Windstream's FIT contract, and whether you have 12:01:07
20 a view regarding whether Windstream was treated 12:01:08
21 fairly. 12:01:12
22 And you answered that you were not 12:01:13
23 surprised that the OPA refused force majeure. 12:01:15
24 Just a point of clarification -- 12:01:19
25 A. So, say that again, I was not ... 12:01:22

Page 141

1 Q. And do you see what it says? 11:59:21
2 Maybe you want to read it out. 11:59:24
3 A. I can read it out, if you like. 11:59:25
4 Q. Sure. 11:59:28
5 A. So, 2(c) says: 11:59:28
6 "Notwithstanding 11:59:33
7 Section 2.1(b), prior to the 11:59:33
8 supplier delivering its NTP 11:59:36
9 request, pursuant to 11:59:39
10 Section 2.4, the supplier 11:59:42
11 may, on a single occasion, 11:59:44
12 elect to reduce the contract 11:59:47
13 capacity to a lower amount by 11:59:48
14 giving notice to the OPA, 11:59:48
15 provided that such lower 11:59:48
16 amount is not less than 11:59:50
17 75 per cent of the original 11:59:51
18 contract capacity." 11:59:53
19 [As read] 11:59:56
20 Q. Okay, right. And just trying to 11:59:57
21 clarify here that if you are downsizing, it wasn't 11:59:58
22 more than 70 -- it wasn't to below 75 per cent of 12:00:01
23 the original? 12:00:04
24 A. That's correct, the limit of 12:00:05
25 downsizing was 75 per cent. 12:00:06

Page 143

1 Q. I believe your answer was that you 12:01:24
2 were not surprised that the OPA refused to grant -- 12:01:25
3 or was reluctant to grant force majeure initially. 12:01:30
4 Just a point of clarification on that. 12:01:34
5 Were you referring to Windstream's pre-moratorium 12:01:36
6 force majeure claim or were you referring to the 12:01:42
7 treatment of Windstream after the moratorium was 12:01:45
8 announced? 12:01:47
9 A. I was referring to neither. 12:01:48
10 Q. Okay. 12:01:49
11 A. I was referring to how OPA views 12:01:50
12 force majeure applications as a whole, which is 12:01:55
13 typically trying to avoid them unless absolutely 12:01:59
14 necessary. 12:02:02
15 Q. Okay. And do you have a view, 12:02:03
16 Mr. Roeper, in answer to Mr. Cremades' question 12:02:05
17 about whether Windstream was treated fairly after 12:02:09
18 the moratorium? 12:02:11
19 A. Windstream was not treated fairly 12:02:15
20 after the moratorium. I think we were led to 12:02:17
21 believe a number of things that were not acted on -- 12:02:23
22 MR. NEUFELD: I'm sorry to interrupt, 12:02:31
23 but I think we established earlier that Mr. Roeper 12:02:31
24 wasn't involved after the moratorium. Didn't we 12:02:34
25 establish that earlier? 12:02:36

Page 144

1 MS. SEERS: I believe Dr. Cremades 12:02:39
2 asked him the question specifically, so I was 12:02:40
3 simply -- my view is that Mr. Roeper was perhaps 12:02:43
4 confused in answering the question, so I wanted to 12:02:45
5 give him the opportunity to do so. 12:02:48
6 PRESIDENT: And when answering the 12:02:51
7 question, you can also explain whether you were 12:02:53
8 involved in the process after the moratorium. 12:02:55
9 THE WITNESS: So please repeat the 12:03:00
10 question. 12:03:01
11 BY MS. SEERS: 12:03:01
12 Q. Do you have a view as to whether 12:03:02
13 Windstream was treated fairly by the government and 12:03:05
14 by the OPA after the moratorium? 12:03:07
15 A. No, I do not feel they were 12:03:11
16 treated fairly. And the reason is that the 12:03:12
17 moratorium was -- I disagreed with the moratorium in 12:03:16
18 the first place, as I explained earlier. I don't 12:03:20
19 know why the moratorium was chosen as a tool. It is 12:03:23
20 completely obtuse to me. But after the moratorium 12:03:26
21 was put in place, it was put in place saying we were 12:03:28
22 going to do a series of studies to deal with any 12:03:30
23 outstanding issues, and I was left with the 12:03:33
24 impression that, after some study, we would proceed, 12:03:37
25 and in my mind that never happened. 12:03:40

Page 146

1 specifically in this letter gave you that comfort? 12:05:01
2 A. Well, to me, this letter was the 12:05:04
3 outcome of a series of meetings that occurred from 12:05:07
4 April, May, June, July, prior to this letter being 12:05:09
5 issued, on the issue of grid cell swapping, and it 12:05:12
6 says a couple of things: 12:05:19
7 "Once the reconfiguration of 12:05:22
8 application has been 12:05:23
9 finalized, the amended 12:05:24
10 applications can begin to 12:05:25
11 move through the normal Crown 12:05:28
12 land application process." 12:05:29
13 So that's positive, which means as 12:05:31
14 soon as the setback issue is dealt with, which is 12:05:32
15 supposed to be September at that time -- 12:05:41
16 Q. Pardon me, September of 2010? 12:05:42
17 A. September of 2010. So when the 12:05:45
18 consultation started on June 25th -- before the 12:05:47
19 consultation we didn't know what was coming. Then 12:05:49
20 the consultation came out on June 25th. We were 12:05:52
21 under the impression that the consultation would 12:05:55
22 complete some time in early fall. And what this 12:05:57
23 letter says is once the reconfiguration of 12:05:59
24 application has been finalized, which had to do with 12:06:01
25 the setback provisions, we can move forward through 12:06:04

Page 145

1 PRESIDENT: Were you involved then in 12:03:44
2 the process after the moratorium? You were still 12:03:45
3 advising, working with Windstream? 12:03:49
4 THE WITNESS: Yes. Yes, we were. 12:03:52
5 PRESIDENT: Until when? 12:03:53
6 THE WITNESS: Until very recently. As 12:03:55
7 you saw from some of these documents, we provided 12:04:00
8 layouts, wind resource assessments right into 2015. 12:04:03
9 Now after 2012, a lot of that was in 12:04:08
10 support of documentation, which we understood was 12:04:10
11 going to be used in submissions. 12:04:12
12 BY MS. SEERS: 12:04:18
13 Q. Mr. Roeper, in response to 12:04:21
14 a question from Mr. Bishop, you mentioned 12:04:22
15 an August 9th letter from the MNR, and I've 12:04:24
16 provided -- my colleague has provided you with 12:04:28
17 a copy of what I believe to be the letter you were 12:04:30
18 referring to, which is Exhibit C-0336. Is that the 12:04:34
19 letter you were referring to? 12:04:42
20 A. Yes, that was the letter I was 12:04:43
21 referring to. 12:04:45
22 Q. And you mentioned -- I believe you 12:04:45
23 mentioned that it gave you comfort regarding the 12:04:55
24 grid cell swap. 12:04:59
25 Would you direct us to what 12:05:00

Page 147

1 the normal land application process. 12:06:06
2 That's very positive, because it means 12:06:09
3 the MNR is willing to move forward with us. 12:06:10
4 "...including holding a site 12:06:14
5 information meeting with MNR 12:06:17
6 to discuss known potential 12:06:18
7 constraints, public and 12:06:19
8 Aboriginal notification, and 12:06:19
9 confirmation of requirements 12:06:21
10 for offshore wind in the 12:06:22
11 renewable energy approvals 12:06:24
12 process." 12:06:25
13 Which ties back to some of the 12:06:26
14 requirements that we were talking about on the MNR 12:06:28
15 part of the June 25th public consultation process 12:06:30
16 where the MNR stated it had some additional 12:06:33
17 requirements. We wanted to know what those were. 12:06:36
18 We later found out what they were. 12:06:38
19 One of them had to do with fish impacts, electric 12:06:40
20 lines impact on fish, and a couple of other issues. 12:06:45
21 Then it goes on to say: 12:06:47
22 "I appreciate your need for 12:06:49
23 certainty on this file, and 12:06:50
24 we will move as quickly as 12:06:51
25 possible through the 12:06:52

Page 148

1 remainder of the application 12:06:53
2 review process in order that 12:06:54
3 you may obtain applicant of 12:06:55
4 record status in a timely 12:06:57
5 manner." 12:06:59
6 So, to me, this was what we had been 12:07:00
7 meeting about for several months, and this was the 12:07:02
8 letter that showed me that those meetings had moved 12:07:04
9 the goal post. 12:07:11
10 Q. Okay. In response to another 12:07:12
11 question from Mr. Bishop, you mentioned a letter 12:07:15
12 from Minister Cansfield, who I understand was the 12:07:17
13 Minister of Natural Resources at the time. I've 12:07:22
14 given you a document, which is Exhibit C-0144. It's 12:07:25
15 a letter from Minister Cansfield to Mr. Baines dated 12:07:31
16 September 24th, 2009. 12:07:35
17 Is that the letter that you are 12:07:38
18 referring to? 12:07:39
19 A. Yes, it is. 12:07:39
20 Q. And I believe you were discussing 12:07:41
21 this letter in the context of the relationship 12:07:45
22 between the FIT program and site access; is that 12:07:50
23 right? 12:07:54
24 A. So, site release was important 12:07:55
25 aspect of the process. Site release, REA and FIT 12:07:59

Page 150

1 letters issued, I actually saw in my practice 12:09:06
2 a number of these. 12:09:09
3 In the lead up to the FIT program in 12:09:10
4 the fall of 2009, there was a lot going on. As 12:09:13
5 I was saying earlier, MOE was trying to roll out 12:09:16
6 REA. MNR was working on its site release process. 12:09:20
7 And, MNR, in my view, had issues. 12:09:23
8 They had wrinkles in trying to move as quickly as 12:09:26
9 the government wanted to move in the FIT program. 12:09:28
10 the REA program, and the site release process. 12:09:30
11 What happened with this letter was 12:09:33
12 that there was a lot of industry pressure to get 12:09:34
13 confirmation from the MNR that the grid cells that 12:09:37
14 had been applied for had been accepted, awarded, 12:09:40
15 whatever you want to call it, that the Applicant had 12:09:47
16 status on those lands that they'd applied, because 12:09:49
17 that was a requirement for the FIT program. 12:09:52
18 Those letters never came out. We 12:09:54
19 waited for a long time, in 2009, to get confirmation 12:09:56
20 for a number of clients on this issue. 12:09:59
21 The fact that this letter was then 12:10:03
22 came out from Minister Cansfield herself, told me 12:10:05
23 a bunch of things. 12:10:09
24 Number one, the bureaucracy was still 12:10:10
25 struggling with what exactly to put out. They 12:10:13

Page 149

1 contract are the three cornerstones of doing 12:08:02
2 offshore -- any Crown land based renewable project. 12:08:04
3 Windstream had applied earlier in 12:08:11
4 2008. We weren't involved with that, but in 2008 12:08:13
5 Windstream had applied for grid cells. 12:08:16
6 As the FIT program was rolled out, the 12:08:19
7 government was rolling out the FIT program 12:08:21
8 requirements, the submission requirements, and one 12:08:24
9 of those requirements was that you had a certain 12:08:25
10 land status, if you are doing your project on Crown 12:08:29
11 land. 12:08:31
12 So if you were on private land, you 12:08:32
13 would need to show a lease. If you are on Crown 12:08:34
14 land, you need to show a status, some sort of 12:08:36
15 status. 12:08:39
16 This letter is a really important 12:08:39
17 document, because it explains the status of 12:08:41
18 Windstream. And especially the letter says, without 12:08:46
19 me re-reading it, that this status letter -- this 12:08:48
20 letter satisfies the requirements for you to file 12:08:52
21 for the FIT contract applications. 12:08:54
22 So it's huge. 12:08:57
23 Not only that, this letter was huge, 12:08:59
24 because it was actually issued by a Minister. 12:09:00
25 So there were a number of these 12:09:04

Page 151

1 didn't have process for it. They were still working 12:10:15
2 on that. The government wanted to let out. 12:10:18
3 The gut feeling is, Cabinet made 12:10:20
4 a decision to get the letters out, the Minister 12:10:23
5 itself decided to sign the letter because the 12:10:25
6 bureaucracy was not ready to sign the letters 12:10:27
7 because they were hung up in their own regulatory 12:10:30
8 delays, so... 12:10:33
9 Q. Okay. Dr. Heiskanen asked you 12:10:35
10 about whether the timeline for offshore wind 12:10:43
11 facilities under the FIT contract, or in the FIT 12:10:46
12 program, was realistic. And in your answer to that 12:10:48
13 question, you mentioned that the four-year timeline 12:10:54
14 was tight, I believe. 12:10:56
15 A. Tight, but doable, I think I said. 12:10:58
16 Q. All right, tight, but doable. 12:11:01
17 What did Windstream do to try to 12:11:03
18 mitigate that risk of the tight four-year timeline? 12:11:05
19 A. So, to me, the obvious answer is 12:11:10
20 when the FIT contract was signed in August, we got 12:11:16
21 five years instead of four years under the contract. 12:11:19
22 And so it got a contract -- the simple answer is 12:11:21
23 Windstream got a contract amendment from OPA from 12:11:29
24 48 months to 60 months in the FIT contract. 12:11:33
25 Q. Thank you. Those are my 12:11:36

Page 152

1 questions. 12:11:36
2 PRESIDENT: Thank you, Ms. Seers, and 12:11:38
3 thank you, Mr. Roeper. That concludes your 12:11:41
4 examination. Thank you very much for your time and 12:11:43
5 availability. 12:11:46
6 THE WITNESS: Thank you. 12:11:48
7 PRESIDENT: We are falling a little 12:11:49
8 bit behind in our program, so I suggest we start 12:11:51
9 with the next witness now before the lunch break, at 12:11:54
10 least for half an hour or so. Let's have a very 12:11:56
11 short break, technical break of five minutes, and 12:12:00
12 then we will continue with the next witness. 12:12:04
13 MS. SEERS: Mr. President, may I ask 12:12:08
14 for your indulgence for a ten-minute break just to 12:12:11
15 gather documents and binders and the like? 12:12:14
16 PRESIDENT: That's fine. So we have 12:12:16
17 flexible timelines with this program, within certain 12:12:17
18 reasonable limits. 12:12:23
19 MS. SEERS: Very much appreciated. 12:12:25
20 --- Recess taken at 12:12 p m. 12:12:27
21 --- Upon resuming at 12:24 p m. 12:12:27
22 MS. SEERS: We appreciate the 12:24:18
23 indulgence. We are ready to proceed whenever the 12:24:18
24 Tribunal is ready to proceed. 12:24:19
25 PRESIDENT: The Tribunal is always 12:24:21

Page 154

1 letters, and out of the additional information 12:25:47
2 that's been provided last night, or any further 12:25:49
3 additional information that might be provided as 12:25:53
4 a result of this exchange. 12:25:56
5 PRESIDENT: This is the information 12:26:01
6 that was just handled just last week before the 12:26:02
7 hearing which was subject to some confidentiality 12:26:05
8 restrictions? 12:26:08
9 MR. TERRY: Yes. Yes, you will recall 12:26:09
10 that issue, and the information -- some information 12:26:10
11 was provided last night to us. 12:26:13
12 PRESIDENT: Okay, but this would be 12:26:15
13 documentation or information that is not on record? 12:26:16
14 MR. TERRY: That's correct. This is 12:26:22
15 documentation that if we were going to get into it 12:26:23
16 would involve third-party information, and would 12:26:26
17 require appropriate steps to be taken to protect 12:26:29
18 that information. 12:26:32
19 PRESIDENT: Okay. Perhaps we cross 12:26:32
20 the bridge when we get there, and see how we'll deal 12:26:34
21 with it. 12:26:37
22 MR. TERRY: Thank you. 12:26:38
23 PRESIDENT: Okay, thank you. Good 12:26:39
24 afternoon, again, Mr. Cecchini. 12:26:45
25 THE WITNESS: Good afternoon. 12:26:48

Page 153

1 ready. Thank you very much. Good afternoon, 12:24:23
2 Mr. Cecchini. 12:24:27
3 MR. TERRY: And, Mr. President, if we 12:24:30
4 could just put one issue on the record first, which 12:24:33
5 we discussed with our friends on the other side, and 12:24:37
6 that is with respect to Mr. Cecchini's evidence -- 12:24:40
7 is this working? 12:24:47
8 PRESIDENT: Yes, it's working. 12:24:48
9 MR. TERRY: You will recall that we 12:24:50
10 had requested from Canada, and then had -- that had 12:24:51
11 resulted in a request to the Tribunal, and 12:24:58
12 a direction with respect to some -- a letter that 12:25:00
13 Mr. Cecchini had provided -- two letters that 12:25:05
14 Mr. Cecchini had provided to the Canada's damages 12:25:08
15 experts, BRG, with respect to some information about 12:25:12
16 other FIT projects. And you may recall there were 12:25:18
17 some issues where we were asking for the underlying 12:25:22
18 information. 12:25:25
19 Canada last night provided us with 12:25:25
20 some of that underlying information. We are taking 12:25:28
21 steps to try to see whether this assists us at all, 12:25:31
22 but, by agreement with Canada, we're going to 12:25:35
23 proceed with the cross-examination today, but have 12:25:37
24 the right to re-call Mr. Cecchini solely to ask him 12:25:40
25 questions on matters arising out of those two 12:25:44

Page 155

1 PRESIDENT: And welcome. 12:26:49
2 THE WITNESS: Thank you. 12:26:50
3 PRESIDENT: Can I just first ask you 12:26:51
4 to state your full name for the record and then read 12:26:52
5 the declaration for witnesses that you have in front 12:26:57
6 of you. 12:27:03
7 THE WITNESS: Okay, Perry John 12:27:03
8 Cecchini. I solemnly declare upon my honour and 12:27:05
9 conscience that in my evidence before this Tribunal, 12:27:12
10 I shall speak the truth, the whole truth and nothing 12:27:14
11 but the truth. 12:27:17
12 PRESIDENT: Thank you. You have 12:27:18
13 submitted one witness statement in this proceeding 12:27:20
14 dated January 20, 2015? 12:27:22
15 THE WITNESS: Yes. 12:27:27
16 PRESIDENT: It is actually dated -- 12:27:27
17 your signature is dated January 19th, 2015? 12:27:30
18 THE WITNESS: Yes. 12:27:33
19 PRESIDENT: You have that statement in 12:27:34
20 front of you? 12:27:35
21 THE WITNESS: Yes, I do. 12:27:35
22 PRESIDENT: And you confirm this is 12:27:36
23 your statement? 12:27:38
24 THE WITNESS: Yes it is. 12:27:40
25 PRESIDENT: And do you confirm the 12:27:42

Page 156

1 contents of this statement? 12:27:44
2 THE WITNESS: Yes, I do. 12:27:47
3 PRESIDENT: Do you have any 12:27:51
4 corrections to make? 12:27:52
5 THE WITNESS: Not that I'm aware of. 12:27:54
6 PRESIDENT: Okay, thank you very much. 12:27:56
7 It will be Ms. Squires asking a few questions first 12:27:57
8 on direct. Then there will be a cross-examination 12:28:01
9 followed by the counsel for Claimant, and then 12:28:05
10 possibly additional questions from the government 12:28:07
11 lawyers, and there may be at any time questions from 12:28:10
12 the Members of the Tribunal. 12:28:15
13 THE WITNESS: Thank you. 12:28:16
14 PRESIDENT: Let's try to do at least 12:28:17
15 half an hour, and if you could -- or it's perhaps 12:28:19
16 a question to or request to Ms. Seers rather that we 12:28:24
17 break around one o'clock, or thereabouts, when it is 12:28:28
18 a convenient time. 12:28:35
19 MS. SQUIRES: Certainly. And please 12:28:36
20 feel free to direct me to stop when it's 12:28:37
21 appropriate. 12:28:40
22 PRESIDENT: We will. 12:28:41
23 MS. SQUIRES: I know. 12:28:42
24 I don't think I'll be 12:28:46
25 a full half hour, so we should be able to get 12:28:47

Page 158

1 the OPA with regard to that contract management, 12:29:49
2 because some questions have come up from the 12:29:52
3 Tribunal in Canada's opening arguments. 12:29:55
4 A. Okay. 12:29:58
5 Q. And the first of those is during 12:29:58
6 that time Mr. Bishop asked counsel for Canada that 12:30:00
7 when agreeing to offer a FIT contract, does the OPA 12:30:02
8 do any due diligence on whether or not a supplier 12:30:04
9 can meet the contract deadlines imposed in a FIT 12:30:07
10 contract? 12:30:13
11 Can you explain for the Tribunal what 12:30:13
12 process the OPA undergoes when reviewing application 12:30:14
13 and deciding to offer a FIT contract? 12:30:18
14 A. Okay, I'll tell you according to 12:30:20
15 my knowledge. I just want to be clear, I am 12:30:21
16 a contract manager. I do not -- I am not involved 12:30:23
17 in what we call our procurement group which deals 12:30:25
18 with applications. I deal with contracts from the 12:30:28
19 moment they're signed, or the moment they're 12:30:31
20 offered, in some cases. 12:30:33
21 We -- it's my understanding that the 12:30:36
22 OPA, and now the IESO, does not do any due diligence 12:30:39
23 with regards to the ability of the suppliers to meet 12:30:43
24 the obligations of the contract, for the most part. 12:30:48
25 I'll get to the one difference later. 12:30:51

Page 157

1 underway. We'll see I guess. 12:28:48
2 AFFIRMED: PERRY JOHN CECCHINI 12:28:49
3 EXAMINATION BY MS. SQUIRES: 12:28:49
4 Q. Good afternoon, Mr. Cecchini. 12:28:51
5 A. Thank you. 12:28:53
6 Q. I wonder if you could briefly 12:28:54
7 start by discussing your role of what was the OPA 12:28:55
8 that is now the IESO? 12:28:58
9 A. I am a contract manager for 12:28:59
10 renewable energy projects. 12:29:01
11 I have been in that position since 12:29:03
12 September 2009, and in that role I am essentially 12:29:05
13 the main kind of contact between our counterparties, 12:29:09
14 and the organization, the OPA or the IESO. So 12:29:14
15 I manage contracts. 12:29:20
16 I have a portfolio of contracts right 12:29:22
17 now, numbering about 2,000, and I have seven people 12:29:25
18 who report to me. So I that's what I do. I manage 12:29:28
19 contracts and I deal with issues that arise from 12:29:36
20 those contracts. And we review documentation that 12:29:38
21 comes from suppliers dealing with declaring 12:29:40
22 commercial operation, force majeure, things like 12:29:43
23 that. 12:29:46
24 Q. So I want to ask you a couple of 12:29:47
25 questions, or three actually, about the practice of 12:29:48

Page 159

1 So that means these are obligations 12:30:55
2 that we see that the supplier's undertaking. 12:30:56
3 This is a program. It's a standard 12:31:00
4 offer. The contract lists in the obligations of the 12:31:02
5 supplier it's the duty of the supplier to make 12:31:05
6 a decision whether they can meet those obligations. 12:31:09
7 And, therefore, we see that as their responsibility, 12:31:10
8 and they should be doing their due diligence. 12:31:14
9 We're listing our requirements. They 12:31:17
10 should be undertaking due diligence as to whether 12:31:22
11 they can meet those requirements. 12:31:24
12 The one exception, and this I don't 12:31:26
13 think applies to this situation, is that during the 12:31:27
14 initial Feed-in-Tariff contracts offer, there were 12:31:29
15 some suppliers that bid time off, that said that 12:31:34
16 they could develop in an accelerated situation, and 12:31:38
17 that gave them priority with respect to contract 12:31:41
18 award. And there was some review of whether they 12:31:45
19 could -- they met qualifications there to assume -- 12:31:48
20 to get bid time off. So there was a review of their 12:31:53
21 bid time off requirements. There was no review 12:31:57
22 otherwise. 12:32:00
23 Q. And when you say "bid time off," 12:32:00
24 just for the sake of the Tribunal, you mean 12:32:03
25 accelerating the commercial operation? 12:32:05

Page 160

1 A. Accelerating what -- the 12:32:07
2 milestones date for commercial operation. 12:32:08
3 It was a -- for the most part, there 12:32:10
4 was standards times. Three years for the most part 12:32:12
5 for on-shore wind, five years for water power, 12:32:15
6 things like that. 12:32:21
7 If you bid less than that, you had to 12:32:22
8 meet certain requirements, and those were reviewed. 12:32:24
9 Q. Okay. Now, Mr. Bishop also asked 12:32:27
10 Canada during its opening argument about the OPA's 12:32:30
11 practice with regard to holding people to the 12:32:33
12 deadlines under the FIT contract, and their practice 12:32:35
13 in granting extensions. 12:32:38
14 So if we leave aside the discussion of 12:32:39
15 force majeure extensions, can you provide some 12:32:42
16 overview of how the OPA decides when those types of 12:32:45
17 extensions have been granted, and when they have 12:32:48
18 done that? 12:32:50
19 A. Extensions are granted in two 12:32:51
20 general categories. I'll put them as categories. 12:32:53
21 The first is we receive -- we have, on 12:32:56
22 at two occasions that I'm aware of, received 12:32:58
23 directions from the government -- from the Minister, 12:33:00
24 to offer extensions to certain categories of 12:33:02
25 projects, and we follow those directions. 12:33:06

Page 162

1 the FIT contract? 12:34:20
2 A. The status of the FIT contract, in 12:34:22
3 my view, is that it's still in place. They're under 12:34:23
4 force majeure. So, that's where it's at. That 12:34:28
5 simple. 12:34:32
6 Q. Okay, now, I'd just like -- one 12:34:32
7 last question then on a topic that the Tribunal has 12:34:35
8 also asked about, and that relates to the letter of 12:34:37
9 credit that the FIT supplier would provide to the 12:34:41
10 OPA once they sign a FIT contract. 12:34:45
11 Can you provide some information for 12:34:47
12 the Tribunal on when and under what circumstances 12:34:48
13 the OPA returns a letter of credit for those 12:34:50
14 projects that are in force majeure like Windstream? 12:34:54
15 A. We don't return security at all, 12:34:57
16 unless certain conditions are met. For instance, we 12:35:02
17 will return security if a supplier achieves 12:35:07
18 commercial operation. 12:35:10
19 We will return -- our practice is if 12:35:11
20 a supplier enters into a mutual termination 12:35:15
21 agreement with us, prior to what we call their "long 12:35:18
22 stop date" which is a date that 9.1(J) comes into 12:35:22
23 force. We will, in exchange for releases from both 12:35:28
24 sides, our side and their side, we will return 12:35:32
25 security at that point. If there would be 12:35:35

Page 161

1 The second type of extension that are 12:33:08
2 granted are where we see that there are program or 12:33:10
3 policy issues that have to be dealt with, and those 12:33:14
4 come from the OPA and subsequently the EISO itself, 12:33:18
5 but those extensions are generally extensions that 12:33:24
6 apply throughout the whole program. We don't do 12:33:27
7 extensions on a one-off basis. 12:33:30
8 This is a standard offer program. We 12:33:33
9 believe it's important to ensure that the rules that 12:33:35
10 apply and the contract terms that apply, apply 12:33:38
11 generally throughout our counterparties. We don't 12:33:41
12 do an extension for one party, that we won't give to 12:33:45
13 another, if there's a similar fact situation, so we 12:33:48
14 are very careful to ensure that we don't create -- 12:33:50
15 if we give an extension it's a precedent for us, and 12:33:54
16 we will give it for everybody, but it is for policy 12:33:57
17 or program reasons to further the objective of the 12:34:00
18 program. 12:34:02
19 Q. Now, Mr. Bishop also asked in the 12:34:04
20 opening arguments about whether or not -- the status 12:34:07
21 of Windstream's FIT contract, and whether or not in 12:34:10
22 the view of the OPA, they were given the amount of 12:34:13
23 force majeure they were seen to be in breach of that 12:34:15
24 FIT contract. 12:34:18
25 Do you have any views on the status of 12:34:19

Page 163

1 a termination, and there is one that I'm aware of, 12:35:36
2 under Section 10.1 (g), or we exercise our rights 12:35:38
3 under 10.1(g) or the supplier exercises their rights 12:35:44
4 under 10.1(g) security would be returned at that 12:35:48
5 point. 12:35:50
6 Other than that, we don't return 12:35:51
7 security. If the contract is still in development, 12:35:52
8 the security remains in place. 12:35:55
9 Q. Just for the sake of the Tribunal 12:35:57
10 then, the termination under 9.1(j) that would be 12:35:58
11 termination for projects that are not in force 12:36:02
12 majeure; correct? 12:36:04
13 A. Projects that are not in force 12:36:06
14 majeure. Projects that have missed their 12:36:07
15 requirement under the contract. There's a certain 12:36:10
16 date that people have an obligation to bring their 12:36:12
17 projects into commercial operation by, and if they 12:36:14
18 don't meet that date, and we terminate them for that 12:36:18
19 reason, we would not return their security. 12:36:23
20 Q. And then for 10.1(g), the other 12:36:25
21 termination provision you mentioned, can you explain 12:36:28
22 how that works with the timelines and when you would 12:36:30
23 return the security under that position? 12:36:32
24 A. Well we've used it only once. And 12:36:37
25 if either -- 10.1(g) gives either side the ability 12:36:39

Page 164

1 if there is -- I'm sure we'll get into later, an 12:36:43
2 extended force majeure that delays your commercial 12:36:45
3 operation, two years past the milestone date of 12:36:49
4 commercial operation. Either side has an ability at 12:36:52
5 that point to kind of walk away from the contract. 12:36:56
6 If that is exercised by either party, 12:37:05
7 the contract stipulates that we have to return 12:37:07
8 security forthwith, and we would do it right away. 12:37:09
9 Q. Just one last question then. You 12:37:14
10 mention that with release of rights under the FIT 12:37:15
11 contract you would return that security prior to 12:37:18
12 either of those timelines being met. So, my 12:37:21
13 question to you then is: If Windstream was to come 12:37:23
14 forward today and ask you for a return of their 12:37:25
15 security with a release of rights from their FIT 12:37:27
16 contract, would you, in fact, return that security 12:37:29
17 to them? 12:37:31
18 A. If we had a mutual release, we 12:37:32
19 would return their security to them. 12:37:34
20 Q. Those are all my questions. 12:37:37
21 PRESIDENT: Thank you, Ms. Squires. 12:37:41
22 Ms. Seers. 12:37:43
23 CROSS-EXAMINATION BY MS. SEERS: 12:37:45
24 MS. SEERS: Never enough room on the 12:38:08
25 podium for all the binders. 12:38:09

Page 166

1 Q. And under the technologies for 12:39:24
2 which pricing was developed, it includes offshore 12:39:26
3 wind; right? 12:39:32
4 A. Yes, I see that on the page. 12:39:33
5 Q. And then if you go the next slide, 12:39:34
6 it says "Prices were not developed for all renewable 12:39:36
7 energy supply technologies," right? 12:39:40
8 A. Yes, I see that. 12:39:43
9 Q. And the reason for that is 12:39:45
10 indicated as being that those technologies for which 12:39:49
11 prices were not developed might have, for example, 12:39:53
12 limited application in Ontario, costs that are 12:39:56
13 likely to vary widely, considerable uncertainty 12:40:01
14 regarding costs or technology that is immature and 12:40:05
15 still developing; do you see that? 12:40:08
16 A. Yes, I see it. 12:40:10
17 Q. So I take it then that given that 12:40:11
18 a price was developed for offshore wind that the OPA 12:40:16
19 did not consider offshore wind technology to fall 12:40:20
20 into these categories; is that your understanding? 12:40:23
21 A. I can't comment on this document; 12:40:26
22 I've never seen it. 12:40:29
23 Q. Okay, so you don't -- 12:40:31
24 A. And I was not involved in any way 12:40:32
25 in its preparation. 12:40:34

Page 165

1 BY MS. SEERS: 12:38:12
2 Q. Good afternoon, Mr. Cecchini. My 12:38:12
3 name is Myriam Seers and I'm counsel for Windstream 12:38:15
4 in this matter. You've got a binder of documents in 12:38:18
5 front of you, if I could get you to turn to tab 1. 12:38:26
6 A. Okay. 12:38:29
7 Q. I understand this document to be 12:38:30
8 pre-dating the introduction of the FIT program and 12:38:36
9 it relates to the price schedule in the 12:38:39
10 Feed-in-Tariff program; is that your understanding 12:38:44
11 of this document? 12:38:46
12 A. I was not working for the Ontario 12:38:54
13 Power Authority at that time, so I haven't reviewed 12:38:55
14 this document. 12:38:58
15 Q. We'll take you through it then. 12:38:59
16 If you turn to page 8, it says at the 12:39:00
17 top: 12:39:13
18 "Prices were developed for 12:39:15
19 renewable energy supply 12:39:17
20 technologies that are 12:39:18
21 anticipated to have 12:39:19
22 wide-spread application in 12:39:20
23 Ontario." [As read] 12:39:23
24 Do you see that? 12:39:23
25 A. Yes, I do. 12:39:24

Page 167

1 Q. So, you don't have 12:40:35
2 an understanding as to why offshore wind pricing 12:40:36
3 was -- or how and why offshore wind pricing was 12:40:38
4 developed? 12:40:42
5 A. I have no -- I have no knowledge 12:40:42
6 of how the prices were determined for this project. 12:40:44
7 As I said, I commenced employment at 12:40:48
8 the OPA in September, 2009 and I was not involved 12:40:50
9 even in my previous job in the pricing schedules 12:40:56
10 that were developed. 12:41:00
11 MS. SQUIRES: My apologies for 12:41:04
12 interjecting here but Mr. Cecchini has indicated he 12:41:06
13 has not worked there at the time. And I would note 12:41:09
14 that two of the claimants' experts were actually 12:41:11
15 employed by OPA at that time to develop these rules, 12:41:14
16 and they've decided to cross Mr. Cecchini on it. 12:41:16
17 So, it's unclear to us why he's being 12:41:19
18 crossed on these questions when they have those 12:41:21
19 experts retained in this arbitration. 12:41:24
20 PRESIDENT: Noted. This is perhaps 12:41:28
21 for submissions. 12:41:29
22 MS. SEERS: I'm simply asking 12:41:31
23 Mr. Cecchini for his understanding, so if he doesn't 12:41:32
24 have an understanding, then that should be his 12:41:34
25 answer to the question. 12:41:36

Page 168

1 BY MS. SEERS: 12:41:37
2 Q. So, Mr. Cecchini if I'm asking you 12:41:37
3 a question you don't know the answer to, please feel 12:41:40
4 to say so, okay. 12:41:44
5 A. Okay. 12:41:46
6 Q. Why don't you turn to page 21? On 12:41:47
7 a point of clarification, Mr. Cecchini, where were 12:42:02
8 you employed before you were joined the OPA? 12:42:04
9 A. I was employed at the 12:42:07
10 Ministry of Energy. 12:42:08
11 Q. In what capacity? 12:42:09
12 A. I was a manager for renewable 12:42:11
13 energy at the Ministry of Energy. But I was not 12:42:13
14 working on this part of the file at the time. 12:42:16
15 I had -- at that point I was working more on the 12:42:18
16 domestic content part of the file. 12:42:22
17 Q. So, you didn't have any 12:42:25
18 involvement with FIT pricing? 12:42:26
19 A. I have no involvement with FIT 12:42:28
20 pricing. 12:42:29
21 Q. Okay. If you turn to page 21, 12:42:30
22 again. I'm going to ask you questions directed to 12:42:44
23 your current understanding, okay, so that we're 12:42:50
24 looking at a document -- 12:42:52
25 A. Uh-hmm. 12:42:53

Page 170

1 Q. Okay, the last -- and this is the 12:43:43
2 last slide I'll take you to then, and I suspect your 12:43:48
3 answer will be the same, but I'll ask it anyway 12:43:51
4 which is that slide 26 it says: 12:43:56
5 "Prices were developed using 12:43:59
6 a discounted cash-flow model. 12:44:00
7 Discounted cash-flow models 12:44:03
8 are commonly used in project 12:44:05
9 finance and the discounted 12:44:07
10 cash-flow model calculates 12:44:09
11 the prices required to cover 12:44:10
12 the cost of investment, to 12:44:11
13 cover ongoing operating 12:44:11
14 expenses and earn 12:44:12
15 a reasonable rate of return 12:44:13
16 over a 20-year contract 12:44:14
17 term." 12:44:17
18 [As read] 12:44:20
19 So my question is: Do you have 12:44:20
20 a current understanding as to whether that is how 12:44:21
21 the OPA developed the FIT pricing? 12:44:24
22 A. I don't have a current 12:44:27
23 understanding for the prices that were developed for 12:44:29
24 the launch projects and how they were established. 12:44:32
25 Q. Now, I understand that in January 12:44:37

Page 169

1 Q. -- but I'm interested in your 12:42:53
2 current understanding. So, at page 21 it says: 12:42:54
3 "The proposed prices were 12:42:59
4 established to allow the 12:43:01
5 proponent to recover project 12:43:03
6 costs and earn a reasonable 12:43:05
7 return on investment. 12:43:07
8 Cost-based pricing was used 12:43:08
9 to enable a wide range of 12:43:11
10 technologies and 12:43:11
11 participation in the program, 12:43:12
12 and cost phased pricing 12:43:14
13 methodology was used in many 12:43:16
14 European FIT programs." 12:43:17
15 [As read] 12:43:21
16 And do you have an understanding as to 12:43:21
17 whether that accurately reflects the way the prices 12:43:22
18 were developed? 12:43:25
19 A. Again, I really wasn't involved in 12:43:27
20 the establishment of pricing, so I can't speak to 12:43:28
21 that. 12:43:32
22 Q. And you don't have a current 12:43:32
23 understanding about it either? 12:43:33
24 A. I can't speak to how they came up 12:43:35
25 with the prices for the program. 12:43:38

Page 171

1 of 2011 the then Deputy Minister of Energy requested 12:44:38
2 that the OPA offer a one year extension for FIT 12:44:43
3 contracts due to permitting delays; is that correct? 12:44:49
4 A. I can speak to that, yes. 12:44:51
5 Q. Yes, finally. We're into your 12:44:53
6 bailiwick. 12:44:55
7 A. Yes. 12:44:56
8 Q. If you turn to tab 2, it's 12:44:57
9 a letter dated January -- pardon me -- for the 12:45:06
10 record, that is Exhibit C-0954. And I may not have 12:45:08
11 said so, but the previous document that we were on 12:45:14
12 at tab 1, for the record, was Exhibit C-0121. 12:45:16
13 I apologize. I'll try to be better about that. 12:45:21
14 So, now we're on tab 2, C-0954, which 12:45:23
15 is a letter dated January 28, 2011 from Deputy 12:45:28
16 Minister of Energy, David Lindsay to Colin Anderson, 12:45:31
17 who is the CEO of the OPA. And he says: 12:45:35
18 "I understand that while 12:45:39
19 there's been a very positive 12:45:40
20 response to the 12:45:42
21 Feed-in-Tariff program, 12:45:42
22 a number of applicants have 12:45:43
23 experienced project delays 12:45:44
24 that could jeopardize their 12:45:46
25 ability to bring their 12:45:48

Page 172

1 projects on line in the time 12:45:49
2 specified in their FIT 12:45:50
3 contract or their conditional 12:45:51
4 offer. As a result, 12:45:54
5 I request that in place of 12:45:55
6 a case-by-case approach to 12:45:56
7 granting force majeure 12:45:58
8 relief, whether pursuant to 12:46:00
9 these contracts or otherwise 12:46:01
10 in relation to these delays, 12:46:02
11 the Ontario Power Authority 12:46:03
12 offered to extend the 12:46:05
13 milestone date for commercial 12:46:07
14 operation, as provided for in 12:46:09
15 existing FIT contracts and 12:46:09
16 the expiry dates for existing 12:46:12
17 microfit applications with 12:46:12
18 conditional offers by 12:46:12
19 a period of up to 365 days 12:46:14
20 for interested applicants." 12:46:17
21 [As read] 12:46:19
22 A. Yes. 12:46:20
23 Q. Do you recall this document? 12:46:20
24 A. Yes, I was involved. 12:46:22
25 Q. And the OPA complied with the 12:46:23

Page 174

1 A. Yes. 12:47:54
2 Q. And since the OPA always complies 12:47:54
3 with the Minister of Energy's directions, it did so 12:47:56
4 in this case also? 12:47:59
5 A. It did so in this case, as well. 12:48:00
6 Q. And if you turn to tab 7, this is 12:48:05
7 announcement dated February 14th, 2014 where the OPA 12:48:14
8 announced that it would adjust the milestone 12:48:20
9 commercial operation date for a period equal to the 12:48:22
10 appeal period for any appeals of renewable energy 12:48:27
11 approvals to the Environmental Review Tribunal; is 12:48:30
12 that correct? 12:48:33
13 A. Yes. 12:48:35
14 Q. And was that issued pursuant to 12:48:37
15 any requests or direction or other involvement from 12:48:39
16 the Ministry of Energy? 12:48:42
17 A. I don't recall if on this 12:48:45
18 particular case whether there was a direction. 12:48:47
19 I know in this case, we were involved 12:48:52
20 from the beginning in coming up with the approach 12:48:56
21 that we took. 12:49:00
22 In fact, we had very clear views on 12:49:01
23 what the appropriate approach was. 12:49:04
24 Q. So, Ministry -- 12:49:07
25 A. I don't recall if there was 12:49:09

Page 173

1 Deputy Minister's request; is that right? 12:46:26
2 A. Yes, the OPA did comply and, in 12:46:28
3 fact, the OPA was involved in the drafting of this 12:46:32
4 letter. 12:46:36
5 Q. And then I further understand on 12:46:39
6 June 12th, 2013 and you can turn to a document which 12:46:43
7 is at tab 4, C-0661. The Minister of Energy 12:46:47
8 directed the OPA to offer a four-year extension to 12:46:55
9 the milestone commercial operation date in existing 12:46:59
10 large FIT contracts for aboriginal participation 12:47:04
11 projects. Does that reflect your understanding of 12:47:08
12 this document? I think the relevant direction is on 12:47:11
13 page 6. 12:47:13
14 A. Yes, that's -- I'm aware of this 12:47:14
15 document. 12:47:20
16 Q. And the OPA complied with the 12:47:20
17 Minister's direction? 12:47:21
18 A. The OPA always complies with 12:47:22
19 Minister's directions. 12:47:24
20 Q. Okay, and then if you turn to 12:47:31
21 tab 5 this is a June 26, 2013 letter from the 12:47:32
22 Minister of Energy to Mr. Anderson, again, that 12:47:39
23 directs the OPA to offer a three-year extension to 12:47:46
24 the MCOB for existing water power contracts; is that 12:47:49
25 right? 12:47:53

Page 175

1 a specific direction. I do know that we worked -- 12:49:09
2 the OPA was involved in coming up with this policy 12:49:13
3 approach. 12:49:16
4 Q. The OPA was involved. Was the 12:49:16
5 Ministry involved? 12:49:20
6 A. I think it's more a case that we 12:49:20
7 wanted to do something and we were telling them what 12:49:22
8 we wanted to do, and so I think they eventually 12:49:24
9 concurred. 12:49:28
10 Q. Now, you told Ms. Squires that you 12:49:30
11 don't generally grant one-off extensions to 12:49:32
12 (Simultaneous speakers - unclear) MCOB -- 12:49:36
13 A. No, I said we did as we followed 12:49:39
14 ministerial directions, and then we did other 12:49:44
15 directions for policy -- other extensions for policy 12:49:46
16 reasons, we did so on a programmatic basis, so that 12:49:49
17 they would apply to everyone. In this case it would 12:49:54
18 apply to everyone in this situation. 12:49:58
19 Q. I understand about that document, 12:49:59
20 but I'm talking more generally about extensions so 12:50:01
21 your evidence is that you give extensions on 12:50:03
22 a programmatic, as you call it, basis. 12:50:05
23 A. Basis. 12:50:10
24 Q. And it applies across the board? 12:50:10
25 A. It applies across the board, and 12:50:11

Page 176

1 we will follow ministerial directions. 12:50:14
2 Q. Right. So, with respect to 12:50:16
3 Windstream you will agree that you did grant 12:50:19
4 a one-year extension to Windstream's FIT contract? 12:50:21
5 A. Yes, and we would also have 12:50:25
6 applied that to any offshore wind project. 12:50:26
7 Q. Of which there are no other ones? 12:50:30
8 A. But there were at the time other 12:50:31
9 projects in the application. 12:50:33
10 Q. In the application queue, but no 12:50:35
11 actual authorizations? 12:50:38
12 A. No authorization. 12:50:39
13 Q. So, have you ever granted 12:50:40
14 an extension to other projects on a one-off basis? 12:50:41
15 A. Not that I'm aware of. I know we 12:50:47
16 have granted -- we do force majeure, but I don't 12:50:49
17 think we do extensions in that one-off basis kind of 12:50:52
18 way. 12:51:01
19 Q. So we'll get to force majeure in 12:51:02
20 a bit, so right now I just want to talk about MCOB 12:51:03
21 extensions that are not force majeure. So, I guess 12:51:07
22 there are two different buckets of the way that you 12:51:12
23 can account for delay, if you will. 12:51:15
24 A. Yes. 12:51:16
25 Q. Right. So, have you -- so you are 12:51:18

Page 177

1 not aware of any extensions to the MCOB ever being 12:51:20
2 granted? 12:51:23
3 A. I don't recall at this moment that 12:51:24
4 we do. We really make an effort to, when we do 12:51:27
5 decisions, that we do it on a program basis. 12:51:30
6 It's important because we have 3,000 12:51:32
7 contracts, and we don't want to -- how should I say 12:51:34
8 create precedents that inadvertently -- 12:51:39
9 Q. So maybe -- I guess I was asking 12:51:43
10 you about one-offs then, and I guess in your 12:51:45
11 description, Windstream's extension was not 12:51:49
12 a one-off. So, let's talk about in a programmatic, 12:51:51
13 as you call it, extension? 12:51:53
14 A. Well Windstream is a unique 12:51:56
15 situation in most aspects, so we can get into that. 12:51:58
16 Q. I'd like to talk about extensions, 12:52:02
17 generally whether they are on a program basis or 12:52:03
18 not. We talked about -- we talked about the one for 12:52:05
19 water power. We talked about the one for aboriginal 12:52:07
20 consultation projects. We talked about the one for 12:52:11
21 permitting, those issued pursuant to the Deputy 12:52:14
22 Minister of Energy's requests. Are there any 12:52:18
23 others? 12:52:22
24 A. We have got the one year 12:52:27
25 extension, the extensions for the ERT, the 12:52:28

Page 178

1 Environmental Review Tribunal and the two that the 12:52:34
2 Ministry gave. 12:52:38
3 I think -- as I'm sitting here -- 12:52:38
4 I think that's it. But I don't manage the entire 12:52:42
5 portfolio, so there are three managers involved in 12:52:48
6 these things -- in managing FIT contracts. 12:52:50
7 Q. So there could be others that 12:52:52
8 you're not aware of? 12:52:54
9 A. I think it's unlikely, but there 12:52:55
10 may be. 12:52:58
11 Q. Okay, now I'm going to ask you 12:52:59
12 a question and if we need to go to a confidential 12:53:01
13 feed we can do that. 12:53:04
14 A. Okay. 12:53:06
15 Q. If the answer is confidential. 12:53:07
16 I understand that the Henvey Inlet 12:53:09
17 project, which is another 300-megawatt project, 12:53:12
18 signed its FIT contract in 2010; is that your 12:53:16
19 understanding. 12:53:20
20 A. I'm not so sure it was -- it may 12:53:29
21 be -- we call it another name. 12:53:31
22 Q. What do you call it? 12:53:33
23 A. Nigig. 12:53:35
24 Q. Nigig. So Nigig got its FIT 12:53:37
25 contract in 2010, for a 300-megawatt wind facility? 12:53:41

Page 179

1 A. Yes. Well, I have that file now. 12:53:49
2 I only -- it came in my purview about a year ago. 12:53:51
3 Q. Okay so -- 12:53:55
4 A. I wasn't working on it between 12:53:56
5 2010 and 2014. 12:53:58
6 Q. What's the status of that project? 12:53:59
7 I understand it's not commenced environmental -- 12:54:01
8 A. We probably should not talk about 12:54:09
9 that. We're getting into, I think, commercially 12:54:10
10 confidential. 12:54:13
11 Q. Shall we cut the feed -- 12:54:13
12 A. I would... 12:54:16
13 (No audio feed) 12:54:16
14 MS. NETTLETON: Just to be clear, are 12:54:52
15 we were meant to be on confidential at this stage? 12:54:53
16 MS. SQUIRES: I would interject 12:54:55
17 because the information that was provided last night 12:54:56
18 to the Claimant has some of these dates and we have 12:54:58
19 clearly indicated that that information has 12:55:01
20 restricted access. So, to the extent that Ms. Seers 12:55:02
21 wants to ask dates on particular on FIT contracts, 12:55:05
22 we will have to ask everybody other than counsel to 12:55:08
23 leave the room. 12:55:10
24 MS. SEERS: And to be clear I'm not 12:55:12
25 asking any questions about that particular 12:55:13

Page 180

1 information that was disclosed for the first time 12:55:15
2 last night because we've dealt with that separately; 12:55:16
3 I'm asking questions based on what we know from the 12:55:19
4 public record, which is very little actually, but 12:55:22
5 we're doing the best we can. 12:55:24
6 So, if we need to go on confidential 12:55:25
7 feed and for non-counsel to step out of the room, 12:55:27
8 then I have no objection. 12:55:30
9 --- Restricted Confidential transcript begins 12:55:32
10 PRESIDENT: So, we are now in 12:55:35
11 confidential feed. Let's hear what the question is 12:55:36
12 and whether the question can be answered without 12:55:39
13 some people leaving the room. 12:55:44
14 MS. SEERS: So the question is that 12:55:46
15 I understand from the public record, that the Nigig 12:55:48
16 project, as you call it, is a 300-megawatt project 12:55:55
17 that got its FIT contract in 2010, has not been -- 12:55:59
18 and has not been terminated, as far as we know and 12:56:03
19 has not yet entered its environmental assessment 12:56:06
20 process. 12:56:09
21 So, my question to you, Mr. Cecchini 12:56:13
22 is: Has that project or that proponent's FIT 12:56:16
23 contract received an extension? 12:56:18
24 THE WITNESS: I think it's probably 12:56:20
25 best that we go on the confidential feed at this 12:56:21

Page 182

1 except counsel for the parties to leave the room. 12:57:05
2 Thank you. 12:57:07
3 PRESIDENT: Can I then ask counsel for 12:57:22
4 each party to confirm when only counsel are left in 12:57:23
5 the room, so we know when we can continue. 12:57:27
6 For the Claimant there are only 12:57:38
7 counsel present and for the Respondent only counsel 12:57:39
8 present. Okay. Please go on. 12:57:44
9 MR. TERRY: Sorry, just to be certain 12:57:47
10 to follow the procedure ... (no audio - microphone 12:57:48
11 not on) 12:57:49
12 COURT REPORTER: I cannot hear you, 12:57:51
13 Mr. Terry. 12:57:51
14 MS. SQUIRES: We are covered under the 12:57:55
15 confidentiality agreement and I should just correct 12:57:57
16 that. If experts wish to stay for this, they can. 12:57:59
17 It is just clients cannot stay, but I don't know if 12:58:01
18 there are any experts. My apologies for that. 12:58:04
19 PRESIDENT: For the benefit of the 12:58:09
20 Tribunal, it would be good to have a communication 12:58:10
21 in writing from the parties, confirming that this is 12:58:15
22 the protocol to deal with this kind of information. 12:58:17
23 So, if you could send something tonight so that it 12:58:21
24 could also cover retroactively what we are doing 12:58:24
25 now. 12:58:27

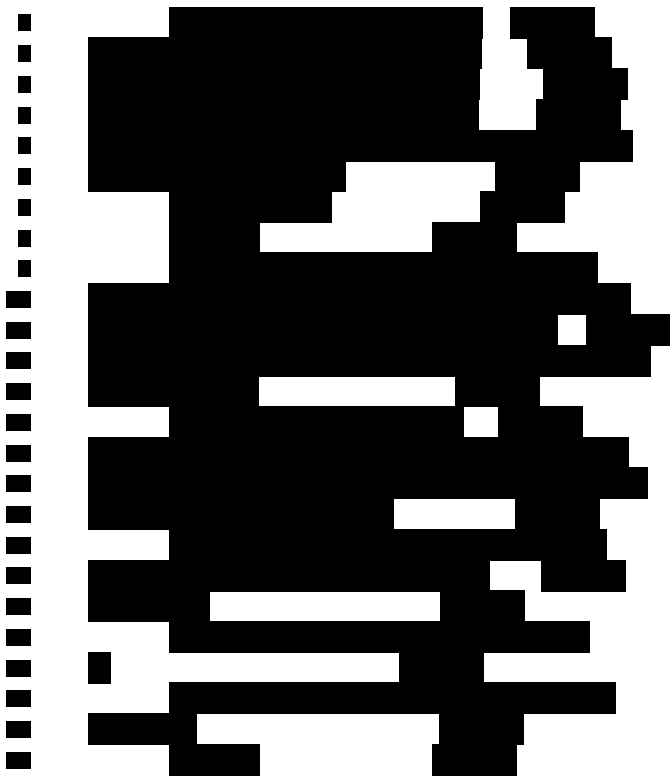
Page 181

1 point. 12:56:23
2 PRESIDENT: We are already on 12:56:24
3 confidential feed. The question is whether you can 12:56:25
4 answer that question -- 12:56:27
5 THE WITNESS: Oh, I can answer that 12:56:29
6 question. 12:56:29
7 PRESIDENT: -- with all these people 12:56:30
8 in the room or is the answer only for counsel, 12:56:31
9 whether you need to disclose information that 12:56:37
10 is third party -- 12:56:39
11 (Simultaneous speakers - unclear) 12:56:40
12 THE WITNESS: It's third party 12:56:41
13 confidential information. 12:56:42
14 (Comments made off the record - no 12:56:43
15 audio) 12:56:43
16 PRESIDENT: Okay, so then I understand 12:56:43
17 the agreement between counsel is that it is only 12:56:45
18 counsel who should be present when this issue is 12:56:50
19 discussed. 12:56:53
20 MS. SQUIRES: That's correct. And 12:56:54
21 counsel for the Ontario Power Authority has 12:56:55
22 indicated that they consider this restricted access. 12:56:57
23 They would ask that everybody other than counsel 12:57:00
24 leave the room. 12:57:02
25 PRESIDENT: Can I please ask everybody 12:57:03

Page 183

1 MS. SEERS: Certainly. 12:58:30
2 PRESIDENT: Thank you. Can you please 12:58:32
3 close the door? 12:58:41
4 MS. SEERS: I believe one of our 12:58:43
5 experts is actually present. Ms. Powell is present 12:58:44
6 and so she'll be joining us in the room. And if she 12:58:47
7 hasn't already, we'll sign the undertaking. 12:58:53
8 Oh, pardon me, it is Mr. Robert Low 12:58:56
9 from Deloitte. 12:59:01
10 PRESIDENT: So the concept of counsel 12:59:07
11 covers experts? 12:59:09
12 MS. SEERS: Yes, and the 12:59:10
13 confidentiality order -- I don't have it in front of 12:59:10
14 me -- but the restricted access information is 12:59:11
15 available to experts upon signing an undertaking. 12:59:13
16 PRESIDENT: Thank you for the 12:59:16
17 reminder. Indeed. Mr. Cecchini. Do you remember 12:59:16
18 the question? 12:59:21
19 THE WITNESS: I can answer the 12:59:21
20 question. Oh, I still remember the question and 12:59:22
21 I can answer it. 12:59:23
22 If we go back, you earlier noted the 12:59:24
23 Ministerial directions and you noted the direction 12:59:29
24 for the First Nations projects and First Nations 12:59:32
25 land. 12:59:35

Page 184



Page 185

1 A. That we were we directed to and 13:00:39
2 followed, I should say. 13:00:40
3 Q. So you were directed by the -- 13:00:44
4 A. The ministerial direction was for 13:00:46
5 a four-year extension and therefore we followed the 13:00:47
6 Ministerial direction. 13:00:52
7 Q. Of the projects that were awarded 13:00:56
8 FIT contracts at the same time as Windstream, that 13:00:58
9 are say over 50-megawatts, so large projects and I'm 13:01:01
10 just referring to wind projects, first of all how 13:01:14
11 many of those are there? And you know you can 13:01:16
12 estimate -- 13:01:19
13 A. I don't have a -- I can tell you 13:01:20
14 that there are 20 projects today that are still 13:01:24
15 under development. 13:01:28
16 Q. Okay, but I'm interested -- 13:01:29
17 A. I, I -- 13:01:29
18 Q. Because that doesn't help us with 13:01:29
19 the timeline -- 13:01:31
20 A. I -- I -- 13:01:31
21 Q. -- so, I'm interested in -- 13:01:31
22 A. I can't -- 13:01:32
23 Q. -- the ones that were awarded -- 13:01:32
24 A. I don't have that -- 13:01:33
25 Q. (Simultaneous speakers - unclear) 13:01:33

Page 186

1 A. I don't have that information in 13:01:36
2 front of me. 13:01:37
3 PRESIDENT: Can you please wait for 13:01:38
4 the question and can you also please allow the 13:01:39
5 witness to ask answer the question -- 13:01:42
6 THE WITNESS: Sure. Sorry. 13:01:43
7 MS. SEERS: Certainly. My apologies. 13:01:44
8 PRESIDENT: -- before starting a new 13:01:44
9 one. 13:01:46
10 BY MS. SEERS: 13:01:50
11 Q. So, I appreciate you don't have 13:01:51
12 the data in front of you. Mr. Cecchini was actually 13:01:52
13 requested, as you know, and not provided so we are 13:01:54
14 doing our best here. 13:02:00
15 I am interested in the contracts that 13:02:03
16 were offered and signed, so the contracts that were 13:02:04
17 offered to on-shore, I guess, wind projects in 2010 13:02:06
18 at the same time as Windstream, okay. Just those 13:02:15
19 ones. Do you know how many those are roughly? 13:02:18
20 A. I roughly know, but not exactly, 13:02:22
21 no, not off the top of my head. 13:02:24
22 Q. What is your rough estimate? 13:02:28
23 A. It would have been in the 50s. 13:02:30
24 Q. In the 50s, over 50-megawatts? 13:02:33
25 A. No, no, 50 on-shore wind contracts 13:02:35

Page 187

1 would have been offered in 2010. But it would have 13:02:40
2 been -- that's not an exact number. There were 13:02:44
3 a number of contracts in the 70 -- we have 70 13:02:47
4 on-shore wind contracts that were offered. 13:02:49
5 Some were offered -- the majority were 13:02:52
6 offered in 2010. There were some offered in 2011. 13:02:54
7 Q. Right. But a lot of those are 13:02:57
8 small projects, so I'm asking you about large 13:02:59
9 projects over 50-megawatts? 13:03:01
10 A. And I have to admit I don't think 13:03:03
11 of them in that way. I think of them -- we think of 13:03:07
12 projects as a large project, those being what we 13:03:10
13 call "CAR," those that are essentially not under 13:03:14
14 500-kilowatts, so we don't do a classification for 13:03:20
15 50, so I think of a 10-megawatt project, 13:03:24
16 100-megawatt as one in the same for me. 13:03:25
17 Q. Well, we won't get into the 13:03:29
18 letters that you provided to Mr. Goncalves from BRG 13:03:31
19 because we will be dealing with those separately. 13:03:35
20 A. Yeah. 13:03:38
21 Q. But just for the record, in those 13:03:38
22 letters, you provide information about the number of 13:03:40
23 contracts that are -- that have been, I think you 13:03:43
24 say, delayed past MCOB, but haven't provided the 13:03:47
25 back up information for us to be able to ask 13:03:52

Page 188

1 questions about that, so I just put that on the 13:03:55
2 record now because -- anyway, we take this to 13:03:57
3 another day, but of course since you are sitting 13:04:02
4 here not able to answer questions about that, we're 13:04:06
5 certainly maintaining the request that the 13:04:10
6 underlying information be provided, so that we can 13:04:12
7 ask you questions about that. 13:04:14
8 A. Okay. 13:04:15
9 PRESIDENT: Now, Ms. Seers, we should 13:04:16
10 be breaking now. Is this a good time or -- 13:04:19
11 MS. SEERS: Certainly. Thank you, 13:04:23
12 Mr. President. 13:04:23
13 PRESIDENT: Well, we will now break 13:04:28
14 for lunch, so -- now, that's the question that is 13:04:29
15 a good question. 13:04:32
16 So, when we continue after lunch is 13:04:35
17 this still going to be confidential between counsel 13:04:37
18 only or can we -- are we moving to another area? 13:04:39
19 MS. SEERS: We'll move to another 13:04:42
20 area. The witness doesn't appear to be able to 13:04:43
21 answer this line of questioning, and so we're 13:04:45
22 hopeful that when he comes back on another day with 13:04:47
23 the information we'll be able to pursue this. 13:04:50
24 PRESIDENT: So very good, so we'll 13:04:53
25 return to the standard protocol after lunch. So 13:04:54

Page 190

1 granted the contracts at the same time as 14:08:56
2 Windstream. 14:08:58
3 We had not yet got to the force 14:09:00
4 majeure extension, so that's what I'd like -- I'd 14:09:03
5 like to explore with you before we leave the 14:09:06
6 confidential feed, and then we'll -- 14:09:09
7 A. Okay. 14:09:11
8 Q. -- we'll be able to leave the 14:09:11
9 confidential feed. 14:09:12
10 A. Sure. 14:09:13
11 Q. So as I -- as I recall, we talked 14:09:13
12 about two different types of buckets of extensions. 14:09:15
13 One bucket was the extension to the MCOD. 14:09:17
14 A. Mm-hmm. 14:09:22
15 Q. So we already talked about that. 14:09:22
16 And now I'd like to talk about force majeure. 14:09:25
17 A. Yes, yes. 14:09:29
18 Q. Okay. So -- and, of course, the 14:09:30
19 FIT contract contains a force majeure provision, and 14:09:35
20 as I understand it, what that does is it extends the 14:09:40
21 Milestone Commercial Operation Date and the supplier 14:09:43
22 default date under the FIT contract. Is that 14:09:46
23 correct? 14:09:48
24 A. Not in all -- not always. 14:09:50
25 Q. Not always? 14:09:52

Page 189

1 let's break for lunch for an hour. We continue at 13:04:57
2 2:05 and, Mr. Cecchini, if I could ask you not to 13:05:01
3 speak with anybody during the lunch break about your 13:05:05
4 testimony. 13:05:07
5 THE WITNESS: I understand. 13:05:08
6 PRESIDENT: There's a room reserved 13:05:08
7 for you where you can have your lunch. The 13:05:10
8 secretary of the Tribunal will take you there. Thank 13:05:13
9 you very much. 13:05:15
10 --- Lunch recess taken at 1:05 p m. 13:05:49
11 --- Upon resuming at 2:07 p m. 14:07:56
12 --- Restricted Confidential transcript resumes 14:07:56
13 PRESIDENT: Okay. Thank you. 14:07:56
14 We go on, Ms. Seers. 14:08:18
15 MS. SEERS: Good afternoon. So we are 14:08:21
16 still in the -- in the restricted access, counsel 14:08:22
17 and experts only session. 14:08:26
18 My apologies for -- for being a little 14:08:29
19 bit late, Mr. President. 14:08:31
20 BY MS. SEERS: 14:08:32
21 Q. Mr. Cecchini, when we left off, we 14:08:32
22 had concluded, I think, or reached the edge of your 14:08:37
23 ability to -- to explain to us the extent or the -- 14:08:44
24 pardon me -- the situation with the original -- or 14:08:48
25 the FIT contracts for onshore wind that had been 14:08:52

Page 191

1 A. Yes. Sometimes, if the force 14:09:53
2 majeure situation is after MCOD or it's just before 14:09:56
3 MCOD but it doesn't -- but it had -- was irrelevant 14:10:03
4 to whether the supplier could achieve their 14:10:07
5 milestone date, we would give relief, but only to 14:10:10
6 the long stop. 14:10:12
7 Q. Fair enough. 14:10:13
8 A. So that's -- I just wanted to make 14:10:13
9 that distinction. 14:10:17
10 Q. Fair enough. So but with respect 14:10:18
11 to pre-MCOD projects or contracts -- 14:10:19
12 A. Yes. 14:10:23
13 Q. -- that's what the force 14:10:24
14 majeure -- 14:10:25
15 A. Yes. 14:10:26
16 Q. So it extends the -- the MCOD and 14:10:26
17 the supplier default date by however number of days 14:10:29
18 or months or... 14:10:33
19 A. It extends it by the impact, 14:10:35
20 really related -- each force majeure is different. 14:10:37
21 Q. Right. 14:10:39
22 A. And it really extends to the 14:10:39
23 impact of the event on the schedule. 14:10:42
24 Q. Right. Okay. Has the OPA granted 14:10:44
25 force majeure to projects in connection with 14:10:50

Page 192

1 permitting delays? 14:10:54
2 A. Yes. 14:10:57
3 Q. How many projects have been 14:11:00
4 granted force majeure in connection with permitting 14:11:01
5 delays? 14:11:04
6 A. Oh, I can't give you an answer 14:11:05
7 specifically, but it's many. 14:11:07
8 Q. Can you give us a -- a sense? A 14:11:09
9 range? Ballpark? 14:11:12
10 A. Well, I would say -- can we just 14:11:14
11 restrict it to wind projects? 14:11:17
12 Q. Sure. 14:11:20
13 A. Okay. If we're dealing with wind 14:11:20
14 projects, because that's where most of it's 14:11:22
15 occurring, I would say more than half, probably up 14:11:25
16 to three-quarters. 14:11:28
17 Q. So three-quarters of all of the 14:11:29
18 wind projects, or up to three-quarters, have 14:11:31
19 received force majeure for permitting delays? 14:11:34
20 A. Yes. I would say between half and 14:11:37
21 three-quarters. 14:11:42
22 Q. Between half -- 14:11:43
23 A. Again, I don't have the specific 14:11:43
24 data in front of me. 14:11:45
25 Q. I understand, and -- and, of 14:11:46

Page 193

1 course, neither do we. 14:11:47
2 A. I'm trying to be helpful. 14:11:49
3 Q. And you are. That -- that is 14:11:51
4 helpful. 14:11:52
5 What about -- what about non-wind? 14:11:53
6 Solar? 14:11:56
7 A. There have been some, but not to 14:11:57
8 the same extent. 14:11:59
9 Q. Okay. And any of the other 14:12:00
10 technologies? Water power? Bio -- 14:12:03
11 A. Water power is not subject to the 14:12:05
12 same permitting regime. And it was also, as you 14:12:10
13 mentioned before, a force majeure -- an extension 14:12:14
14 was granted, and -- and that was an extension that 14:12:17
15 involved being an exchange of certain force majeure 14:12:23
16 rights. 14:12:26
17 Q. Okay. Has the OPA granted force 14:12:27
18 majeure in connection with projects who are 14:12:32
19 undergoing litigation, court proceedings? 14:12:37
20 A. I can't recall. I'm not aware 14:12:48
21 that we had that many court proceedings. 14:12:51
22 Q. Okay. 14:12:54
23 A. So I'm -- I'm thinking about it, 14:12:54
24 because I'm trying to figure out what court 14:12:56
25 proceedings we're involved in. We haven't reached 14:13:00

Page 194

1 that point. 14:13:02
2 Q. Well, none -- my question wasn't 14:13:03
3 necessarily court proceedings involving the OPA. 14:13:06
4 But if the project is subject to a court proceeding 14:13:08
5 of some kind. For example -- 14:13:11
6 A. Okay, okay. 14:13:13
7 Q. -- an appeal to the ERT, those are 14:13:14
8 covered by the standard force majeure extension. 14:13:17
9 How about appeals to the courts of Ontario? 14:13:20
10 A. There have been cases where -- at 14:13:25
11 least one case that I'm aware of where a court 14:13:28
12 proceeding led to a force majeure. 14:13:31
13 Q. Okay. How about other kinds of 14:13:34
14 delays in the projects? 14:13:39
15 A. Oh, there could be -- yes, we have 14:13:42
16 granted for other kinds of delays. 14:13:48
17 Q. What kinds of delays? 14:13:49
18 A. If -- wires, connection issues 14:13:53
19 could lead to force majeure. 14:13:56
20 Q. What other kinds of delays? 14:13:59
21 A. Well, generally, it's permitting, 14:14:01
22 and it's connection issues that lead to force 14:14:03
23 majeure. 14:14:06
24 There may be municipal delays. Often 14:14:07
25 there is opposition to these projects, and you may 14:14:11

Page 195

1 lead to circumstances where certain municipalities 14:14:14
2 may not award certain permits in a timely manner, 14:14:17
3 and that has led to force majeure. 14:14:24
4 Q. How about construction delays? 14:14:25
5 A. I'm not aware of any for -- 14:14:34
6 generally, with regards to construction, unless 14:14:35
7 there is something beyond your control, we would not 14:14:38
8 grant delays unless it can be proven that it was 14:14:42
9 something truly beyond the supplier's control. 14:14:45
10 The supplier generally hires their -- 14:14:48
11 their own suppliers, third parties. 14:14:52
12 Q. So as I understand it -- and this 14:14:56
13 is probably true of force majeure generally -- 14:14:58
14 A. Yes. 14:15:02
15 Q. -- if the event is within the 14:15:02
16 supplier's control, then -- then it wouldn't be 14:15:03
17 eligible for force majeure. But if the event is 14:15:06
18 outside their control, then -- then it may be? 14:15:08
19 A. It has to be outside their 14:15:11
20 control, unanticipated, and has to impact their 14:15:12
21 schedule. 14:15:16
22 Q. Right. How about weather delays, 14:15:17
23 weather-related delays? 14:15:19
24 A. Not very often do we grant 14:15:23
25 weather-related delays. We've had claims, but we 14:15:25

Page 196

1 have not -- generally the weather events in Ontario 14:15:27
2 are of it -- how should I say -- of a nature that 14:15:31
3 they can be anticipated. I'll say winter arrives 14:15:34
4 every year. 14:15:37
5 [Laughter.] 14:15:38
6 BY MS. SEERS: 14:15:38
7 Q. So if there's a big snowstorm, 14:15:40
8 that's an event of force majeure in Ontario? 14:15:42
9 A. Snowstorms can be anticipated in 14:15:44
10 Ontario. But, however, if there was an 14:15:46
11 extraordinary event -- 14:15:49
12 Q. Right. 14:15:50
13 A. -- like a tornado or something, we 14:15:50
14 could -- I could foresee granting force majeure in 14:15:52
15 those cases. 14:15:54
16 Q. If you had to hazard a guess -- I 14:15:55
17 appreciate you don't have the data -- how -- how 14:15:58
18 many projects have received force majeure in -- in 14:15:59
19 some way or another as a percentage of total 14:16:02
20 projects? 14:16:05
21 A. I gave you, I think, an estimate 14:16:07
22 for wind, and that's where I'm comfortable. There 14:16:08
23 are so many FIT projects that trying to -- you know, 14:16:11
24 when you are dealing with 3,000 projects, it's kind 14:16:15
25 of hard to give an estimate. 14:16:17

Page 198

1 A. No. There are 70 wind projects 14:17:17
2 over 500 kilowatts. 14:17:19
3 Q. Okay. I apologize. 14:17:21
4 A. We -- we think in terms -- I know 14:17:22
5 it might be -- we think in terms of CAE capacity -- 14:17:24
6 Q. Right. 14:17:28
7 A. -- because of the wires test. 14:17:28
8 Q. Okay. 14:17:30
9 A. We think of projects under 500 14:17:30
10 kilowatts, over 500 kilowatts. 14:17:32
11 Q. Okay. 14:17:34
12 A. So we have 70 wind projects that 14:17:34
13 are over 500 kilowatts, and that -- and those are 14:17:36
14 the -- in the ballpark I'm talking about. 14:17:39
15 Q. And do you know -- I think I may 14:17:41
16 have asked you this already, but do you know how 14:17:42
17 many of them are over 50 megawatts? You don't know? 14:17:44
18 A. I can't, off the top of my head, 14:17:47
19 just give you that number. I said this before. 14:17:49
20 Q. Right. 14:17:51
21 A. It is -- the minority of those 14:17:51
22 projects are -- are over 50 megawatts. 14:17:53
23 Q. Certainly. Okay. 14:17:55
24 And of those projects, I appreciate 14:17:57
25 you don't know how many there are, but do you have a 14:18:00

Page 197

1 Q. Sure. 14:16:18
2 A. Generally, force majeure occur 14:16:19
3 with larger projects. They don't occur with the, 14:16:20
4 like, majority of our projects. 14:16:23
5 Q. Right. And just because you 14:16:25
6 mentioned the -- the 3,000 projects, just put some 14:16:26
7 context on that. How many of those are over 50 14:16:30
8 megawatts, so larger projects, approximately? 14:16:33
9 A. There are 70 -- as I mentioned 14:16:38
10 before, there are 70 wind projects. It would only 14:16:39
11 be in the wind projects that you would have them 14:16:43
12 over 50 megawatts. And it would be a minority of 14:16:46
13 those projects. So I really can't get more 14:16:50
14 specific. I haven't -- I didn't do the math, and I 14:16:53
15 don't want to just guess. 14:16:55
16 Q. What do you mean a minority of 14:16:57
17 those? So 70 wind projects -- 14:16:58
18 A. The majority of our wind projects 14:17:00
19 would be in the 10- to 50-megawatt range. 14:17:02
20 Q. Right. 14:17:05
21 A. There would be a certain number -- 14:17:06
22 and I will say a minority of those projects -- that 14:17:09
23 would be over 50 megawatts. 14:17:11
24 Q. Right. Okay. So there are 70 14:17:12
25 wind projects over 50 megawatts? 14:17:15

Page 199

1 sense of how -- how many have received some sort of 14:18:02
2 event of force majeure, as a percentage. 14:18:05
3 A. Well, as I -- as I told you 14:18:09
4 before, I would say at least over half, maybe up to 14:18:09
5 three-quarters. But, again, I haven't done the 14:18:14
6 math, so I can't give you a specific answer. 14:18:16
7 Q. I understand. So I had understood 14:18:19
8 you to give those figures in connection with 14:18:20
9 permitting delays. Force majeure, where you are 14:18:23
10 referring to just force majeure generally? 14:18:24
11 A. Yes, I understand. And -- and the 14:18:28
12 number would be very similar. 14:18:30
13 Q. Similar? Okay. 14:18:32
14 A. Okay. 14:18:33
15 Q. I take it that -- 14:18:33
16 A. I mean, permitting delays is -- 14:18:34
17 are, you know -- most of our force majeure, I would 14:18:38
18 say, are coming from permitting delays. 14:18:41
19 Q. Okay. That's -- that's why the 14:18:43
20 numbers would be similar? 14:18:44
21 A. Yes. 14:18:45
22 Q. Okay. So I think that pretty much 14:18:46
23 reaches the edge of -- of what I can ask you about 14:18:49
24 without more concrete information. So why don't we 14:18:51
25 go back on the public feed for now? Open the doors. 14:18:55

Page 200

1 PRESIDENT: And we can call the 14:19:01
2 audience back? 14:19:02
3 MS. SEERS: Yes. 14:19:04
4 --- Restricted Confidential transcript ends 14:19:05
5 MS. SEERS: They got bored. 14:19:14
6 PRESIDENT: Please go on. The 14:19:29
7 witness is here, so we can go on with the questions, 14:19:30
8 Ms. Seers. 14:19:33
9 BY MS. SEERS: 14:19:34
10 Q. Yes. And I -- I omitted to ask 14:19:34
11 you one question. If you can't answer it on the -- 14:19:36
12 I don't want to keep going back on and off the -- 14:19:40
13 the feed. 14:19:42
14 A. Okay. 14:19:42
15 Q. So, if you can't answer it, just 14:19:42
16 please say so, and we can deal with it subsequently. 14:19:44
17 A. Okay. 14:19:47
18 Q. Of the contracts that have 14:19:49
19 received force majeure, has the OPA -- 14:19:50
20 MS. SQUIRES: Sorry, Myriam. I don't 14:19:57
21 mean to cut you off, but I think the timer is paused 14:19:57
22 right now on your time. So not to be nit-picky, but 14:20:00
23 I will be nit-picky. 14:20:03
24 [Laughter.] 14:20:04
25 MS. SEERS: As long as it's 14:20:04

Page 202

1 "If, by reason of one or more 14:21:26
2 events of force majeure, the 14:21:28
3 commercial operation date is 14:21:29
4 delayed by such events of 14:21:30
5 force majeure for an 14:21:31
6 aggregate of more than 24 14:21:32
7 months after the original 14:21:33
8 Milestone Date for Commercial 14:21:34
9 Operation..." 14:21:35
10 So prior to any extension pursuant to 14:21:37
11 section 10.1(f), which is the force majeure 14:21:40
12 provision. 14:21:44
13 Now, let me pause there. So the -- the concept of 14:21:44
14 an original Milestone Date for Commercial Operation, 14:21:50
15 is that the -- the original date that's first 14:21:53
16 proposed in -- in the contract when it's -- when 14:21:56
17 it's signed? 14:21:59
18 A. It's the original date when -- for 14:22:00
19 this clause, it's the original date when the 14:22:03
20 contract was first signed, but for a number of 14:22:06
21 contracts, that would have been adjusted because we 14:22:09
22 did give a universal -- made an universal offer of a 14:22:11
23 one-year extension under certain conditions. So for 14:22:16
24 this specific clause, that one-year extension could 14:22:19
25 adjust -- 14:22:23

Page 201

1 reciprocal. 14:20:07
2 PRESIDENT: I can keep the time in 14:20:08
3 the meantime. Please go on. 14:20:09
4 BY MS. SEERS: 14:20:11
5 Q. So let me restart my question. 14:20:11
6 Has -- of -- of the projects that have 14:20:14
7 received -- or the FIT contracts that have received 14:20:16
8 force majeure, has the OPA ever either waived or 14:20:18
9 otherwise modified its force majeure termination 14:20:23
10 right? 14:20:27
11 A. I have to admit I don't understand 14:20:30
12 your -- let me -- could you rephrase the question, 14:20:32
13 because I... 14:20:37
14 Q. Certainly. Well, how about we do 14:20:39
15 it this way. We -- I'll -- I'll take you to some of 14:20:40
16 the contract provisions, and then we can come back 14:20:43
17 to this question. Okay? 14:20:46
18 A. Sure. 14:20:47
19 Q. So I believe Ms. Squires took you 14:20:52
20 to Section 10.1(g) of the FIT contract. It's, for 14:20:54
21 the record Exhibit C-0245, which you'll find at Tab 14:20:59
22 9 of your binder, Mr. Cecchini. And Section 10.1(g) 14:21:05
23 -- 14:21:07
24 A. Yes. 14:21:07
25 Q. -- is on page 32. And it says: 14:21:07

Page 203

1 Q. Right. 14:22:23
2 A. -- that date. 14:22:24
3 Q. And that's what -- I suppose when 14:22:24
4 we're talking about the difference between an 14:22:26
5 extension to the MCOB versus force majeure, that's 14:22:28
6 where this might come into play. 14:22:31
7 A. It -- it might come into play, but 14:22:33
8 that -- what -- the clearest way of saying it is: 14:22:36
9 That one-year extension did not apply to 10.1(g). 14:22:40
10 Q. Oh, it didn't? Okay. 14:22:46
11 A. The time -- well, it affected your 14:22:47
12 date, but we don't count it against the two-year, 14:22:48
13 the two-year time in 10.1(g). 14:22:51
14 Q. I see. Okay. So in Windstream's 14:22:55
15 case, though, that date would be May 4, 2015. Is 14:22:56
16 that right? The original -- 14:23:00
17 A. The original milestone date for 14:23:01
18 Windstream would be May -- May 4, 2015. 14:23:02
19 Q. Okay. So let's keep going. And 14:23:05
20 let's just read in May 4th, 2015 into this -- 14:23:10
21 A. Mm-hmm. 14:23:13
22 Q. -- where it starts with "original 14:23:13
23 milestone." 14:23:15
24 Then it says: 14:23:16
25 "But notwithstanding anything 14:23:16

Page 204

1 in this agreement to the 14:23:18
2 contrary, either party may 14:23:18
3 terminate this agreement upon 14:23:21
4 notice to the other party and 14:23:22
5 without any costs or payments 14:23:23
6 of any kind to either party, 14:23:24
7 and all completion and 14:23:27
8 performance security shall be 14:23:28
9 returned or refunded as 14:23:30
10 applicable to the supplier 14:23:32
11 forthwith." 14:23:34
12 A. Yes. 14:23:34
13 Q. Now, as I understand this 14:23:34
14 provision, which that's -- that's what I mean when I 14:23:35
15 call -- when I say the force majeure termination 14:23:38
16 right, so just so we're on the same page with the 14:23:40
17 terminology. 14:23:44
18 A. Mm-hmm. Okay. Yes. 14:23:44
19 Q. As I understand how this works, 14:23:44
20 the right gets triggered when (a) the commercial 14:23:46
21 operation date for the project has not been 14:23:51
22 achieved, and (b) there's been a delay of more than 14:23:53
23 24 months past that original MCOB date. 14:23:59
24 A. Mm-hmm. 14:24:03
25 Q. Do I have that right? 14:24:04

Page 205

1 A. Can I rephrase it the way we would 14:24:08
2 do it? We would have two tests, one that you would 14:24:10
3 have had a force majeure that would have been in 14:24:13
4 place greater than two years; and, two, that you're 14:24:16
5 at a point where your original -- that you were at a 14:24:21
6 point two years past your original milestone date, 14:24:25
7 because -- 14:24:29
8 Q. Right. 14:24:30
9 A. -- it refers to COD, and we don't 14:24:30
10 do a prospective analysis. We do a retrospective. 14:24:32
11 Q. Right. Retrospective analysis. 14:24:35
12 A. Okay. 14:24:37
13 Q. So you have to be at the two-year 14:24:37
14 mark past your original MCOB? 14:24:38
15 A. Yes. 14:24:41
16 Q. And you have to have had 24 months 14:24:42
17 of force majeure? 14:24:43
18 A. Force majeure. And we would do an 14:24:43
19 analysis -- 14:24:46
20 Q. Okay. 14:24:46
21 A. -- at that time. 14:24:46
22 Q. So -- so in Windstream's case -- 14:24:47
23 A. Mm-hmm. 14:24:48
24 Q. -- two years past the original COD 14:24:48
25 would be May 4, 2017. Is that right? 14:24:53

Page 206

1 A. May 4, 2017, yes. 14:24:55
2 Q. Correct. And 24 months of force 14:24:57
3 majeure, they have already accumulated that. 14:24:59
4 They've been in force majeure since November 22, 14:25:01
5 2010. Is that correct? 14:25:06
6 A. That -- yes, that's correct. 14:25:07
7 Q. So more than five years? 14:25:09
8 A. Yes. 14:25:10
9 Q. All right. So you would agree 14:25:11
10 with me, Mr. Cecchini, that it is impossible for 14:25:20
11 Windstream to achieve commercial operation by May 4, 14:25:25
12 2017? 14:25:28
13 A. I would have to -- I would think 14:25:34
14 it would be a difficult thing. 14:25:38
15 Q. You think it would be difficult? 14:25:40
16 That's in -- 14:25:41
17 A. I would think it's highly, highly 14:25:42
18 unlikely they could achieve that date. 14:25:44
19 Q. Okay. You think it's highly 14:25:46
20 unlikely that they could -- 14:25:49
21 A. I'm not -- I'm not a developer. 14:25:49
22 So you -- but I -- I -- I understand your point. 14:25:51
23 Q. Is it possible for them -- okay. 14:25:54
24 Let's assume the moratorium is lifted tomorrow. 14:25:57
25 And by the way, parenthesis, we learned on Monday, 14:26:01

Page 207

1 actually, for the first time, which you presumably 14:26:08
2 are not aware of, that the moratorium won't be 14:26:12
3 lifted tomorrow or -- or any time soon or maybe even 14:26:15
4 ever. 14:26:18
5 A. Mm-hmm. 14:26:18
6 Q. Mr. Neufeld, in his opening 14:26:18
7 statement, said the following: 14:26:26
8 "Ontario is not planning to 14:26:27
9 commence further scientific 14:26:31
10 studies in the near term to 14:26:33
11 adjust areas initially set 14:26:36
12 out in its earlier plans." 14:26:37
13 And so we know the moratorium won't be 14:26:39
14 lifted tomorrow, but -- but even assuming it were, 14:26:42
15 you can't just agree with me, sir, that it's 14:26:46
16 impossible for Windstream to go through the 14:26:49
17 permitting process, achieve NTP, or get REA, achieve 14:26:53
18 NTP, build the project, and have it plugged into the 14:26:58
19 grid by May 4, 2017. 14:27:00
20 A. I would -- I would -- yes, I have 14:27:02
21 to agree. 14:27:04
22 Q. Okay. Now, you'll correct me if I 14:27:05
23 don't have this right, but I -- I understand you 14:27:13
24 told Ms. Squires that you believe Windstream's FIT 14:27:14
25 contract is still valid? Is that -- were those the 14:27:18

Page 208

1 terms you used? 14:27:22
2 A. It is still in place. 14:27:23
3 Q. Still in place? Right. Okay. 14:27:25
4 But the OPA will have the right to 14:27:30
5 terminate the FIT contract, pursuant to the 14:27:34
6 shorthand -- we have been using the force majeure 14:27:38
7 termination right -- on May 4, 2017; correct? 14:27:40
8 A. I would think the 10.1(g) would 14:27:46
9 kick in on that date. 14:27:49
10 Q. Right. No way to avoid it since 14:27:51
11 they can't -- even if the moratorium were lifted 14:27:53
12 tomorrow, they can't build it in time. 14:27:56
13 A. Mm-hmm. 14:27:58
14 Q. Right? 14:27:59
15 A. Yes. But I think, when we do an 14:28:01
16 analysis, we would be looking at -- it's never 14:28:04
17 automatic in the way we exercise 10.1(g). We always 14:28:09
18 will do a -- we will look at it when the time comes, 14:28:12
19 and we will look at the situation when the time 14:28:16
20 comes, and it really is contingent whether they are 14:28:18
21 still in force majeure or whether they're not in 14:28:22
22 force majeure. And if they're not in force majeure, 14:28:24
23 do they have a schedule that would allow them to, 14:28:26
24 you know, meet their long-stop date? 14:28:31
25 Q. But you've exercised the right 14:28:33

Page 209

1 before in the Big Thunder case? 14:28:35
2 A. We have exercised the right in the 14:28:37
3 Big Thunder case. 14:28:38
4 Q. And you haven't waived the right. 14:28:39
5 You haven't waived your right to exercise the 14:28:41
6 termination? 14:28:45
7 A. No, we don't waive -- we haven't 14:28:46
8 waived the right. 14:28:46
9 Q. No. And, in fact, if I can turn 14:28:47
10 your attention to Exhibit C-0680, which is at Tab 11 14:28:49
11 -- 14:28:53
12 A. Mm-hmm. 14:28:53
13 Q. -- of your binder, this is a 14:28:53
14 letter from Michael Killeavy. Who -- who is Mr. 14:29:01
15 Killeavy? 14:29:05
16 A. He's my superior. He's director. 14:29:05
17 Q. Okay. It's a letter from Michael 14:29:08
18 Killeavy to Adam Chamberlain, who is counsel for 14:29:10
19 Windstream, dated January 10, 2014. And it says: 14:29:13
20 "Dear Mr. Chamberlain, we are 14:29:17
21 in receipt of your letter 14:29:19
22 dated December 20, 2013 in 14:29:20
23 which you requested that all 14:29:24
24 completion and performance 14:29:26
25 security provided by 14:29:27

Page 210

1 Windstream be refunded or 14:29:28
2 returned. The OPA has 14:29:29
3 considered the request and 14:29:31
4 will not agree to refund or 14:29:32
5 return the completion and 14:29:34
6 performance security. The 14:29:35
7 OPA reserves all rights and 14:29:37
8 remedies under the FIT 14:29:39
9 contract and at law and 14:29:40
10 equity, including the right 14:29:41
11 to exercise any rights and 14:29:42
12 remedies at any time and from 14:29:45
13 time to time." 14:29:46
14 A. Yes. 14:29:47
15 Q. So you have actually expressly 14:29:48
16 reserved all of your rights under the FIT contract, 14:29:50
17 including the termination right? 14:29:52
18 A. Yes, we have. 14:29:54
19 Q. Okay. And you have -- the OPA has 14:29:55
20 retained and refused to refund the \$6 million in 14:30:03
21 completion and performance security that Windstream 14:30:08
22 has posted with the OPA? 14:30:11
23 A. Yes. We have not refunded the 14:30:12
24 security. 14:30:14
25 Q. So I put to you, sir, that 14:30:15

Page 211

1 Windstream's FIT contract is not frozen or intact 14:30:17
2 or maintained or in place or whatever else you want 14:30:21
3 to call it at all. It's not frozen. 14:30:24
4 A. What I would say is that we never 14:30:34
5 -- while you're aware we had discussions with 14:30:39
6 Windstream in the spring of 2011 with respect to 14:30:41
7 what we were willing to do regarding the moratorium, 14:30:48
8 we never did come to an agreement. So there was 14:30:51
9 never any steps put in place to freeze the contract. 14:30:55
10 Q. And we will get to those 14:30:57
11 discussions. 14:30:59
12 A. Yes. 14:30:59
13 Q. But I'm -- I'm talking about now. 14:31:00
14 A. Now, no. The contract -- 14:31:02
15 Q. The contract is -- 14:31:03
16 A. The contract remains as it was 14:31:03
17 when it was signed. 14:31:05
18 Q. And it is not frozen? 14:31:06
19 A. It is not frozen. 14:31:07
20 Q. Okay. Now, you told Ms. Squires 14:31:09
21 the following -- I'm reading from the rough 14:31:12
22 transcript, so forgive me. I think it is accurate, 14:31:26
23 but you'll let me know if it's not. Ms. Squires' 14:31:29
24 question was: 14:31:31
25 "You mentioned that, with 14:31:32

Page 212

1 release of rights under the 14:31:34
2 FIT contract, you would 14:31:35
3 return that security --" 14:31:37
4 I take it that's the \$6 million 14:31:38
5 completion and performance security? 14:31:40
6 A. Yes. 14:31:43
7 Q. (Reading): 14:31:43
8 "-- prior to either of those 14:31:43
9 timelines being met. So my 14:31:46
10 question was: If Windstream 14:31:48
11 was to come forward today and 14:31:49
12 ask you for a return of your 14:31:52
13 security with release of 14:31:54
14 right from their FIT 14:31:55
15 contract, would you return 14:31:56
16 that security to them?" 14:31:57
17 And you answered: 14:31:58
18 "If we had a mutual release, 14:32:00
19 we would return their 14:32:02
20 security to them." 14:32:03
21 A. Yes. And I think in the context 14:32:03
22 of that is the termination agreement, a mutual 14:32:05
23 termination agreement with full and final release. 14:32:07
24 We would return the security. 14:32:10
25 Q. Right. So that's what I wanted to 14:32:11

Page 213

1 clarify. So the -- the offer that you're -- that 14:32:13
2 you're making, sitting here today, I guess, is -- is 14:32:15
3 that the OPA would return the completion and 14:32:19
4 performance security if the FIT contract were 14:32:23
5 terminated and there was a release of right. 14:32:26
6 A. I wouldn't call it an offer. I 14:32:30
7 would say that's our practice. And we -- and we -- 14:32:31
8 it's a standard offer program, and we treat all 14:32:34
9 contracts the same way. And so we have that 14:32:38
10 precedent in place. And so that -- that is what we 14:32:42
11 do. If somebody asks to terminate the contract, 14:32:46
12 that's what we do. 14:32:48
13 Q. So just to be completely clear -- 14:32:50
14 A. Yes. 14:32:51
15 Q. -- Windstream would ask to 14:32:52
16 terminate the contract? 14:32:54
17 A. Yes. 14:32:55
18 Q. You would return the security, and 14:32:56
19 there would be some sort of a release? 14:32:58
20 A. Yes. 14:33:01
21 Q. Okay. And you might not know, but 14:33:03
22 I -- I'm just asking: Would -- would the release 14:33:16
23 contemplated have any implications for this 14:33:21
24 particular NAFTA case? 14:33:24
25 MR. SPELLISCY: How would the witness 14:33:25

Page 214

1 know that at all? 14:33:30
2 MS. SEERS: Okay. Well, he is the 14:33:30
3 director of contracts, so he may. 14:33:31
4 THE WITNESS: No, I am a manager of 14:33:32
5 contracts. I'm a manager, but no -- 14:33:33
6 MS. SEERS: So he doesn't know. 14:33:35
7 That's fair. 14:33:35
8 THE WITNESS: No. 14:33:35
9 BY MS. SEERS: 14:33:38
10 Q. On February 11, 2011, the date 14:33:38
11 that the moratorium was announced, the OPA produced 14:33:48
12 a document that I'll take you to, which is at Tab 13 14:33:52
13 of your binder. 14:33:54
14 A. Mm-hmm. 14:33:55
15 Q. And the document is entitled, 14:33:55
16 "Offshore Wind Power Not Proceeding." Do you see 14:34:09
17 that? 14:34:15
18 A. Yes. 14:34:15
19 Q. And at the -- at page 2, at the 14:34:20
20 bottom, you'll see there is a question that says: 14:34:23
21 "Why did the OPA offer an 14:34:29
22 offshore contract or consider 14:34:31
23 doing so without clear policy 14:34:32
24 from the government? 14:34:33
25 Wouldn't it have been smarter 14:34:35

Page 215

1 to wait until you had 14:34:36
2 certainty?" 14:34:37
3 And the answer from the OPA is: 14:34:37
4 "All necessary elements 14:34:40
5 required to authorize the one 14:34:42
6 contract for an offshore wind 14:34:44
7 power project under FIT were 14:34:44
8 in place at the time, 14:34:47
9 including a set price for 14:34:49
10 such developments." 14:34:50
11 And then if you follow on to the next 14:34:51
12 page, the first bullet on page 3 says: 14:34:53
13 "Government policy evolved 14:34:55
14 afterwards. We respect the 14:34:59
15 change in direction and, 14:35:01
16 accordingly, did not proceed 14:35:03
17 to offer contracts to the 14:35:05
18 five projects submitted to 14:35:06
19 FIT." 14:35:08
20 Now, is it fair to say, Mr. Cecchini, 14:35:08
21 that the OPA was not involved in making the decision 14:35:15
22 to impose the moratorium? 14:35:18
23 A. Yes, that's fair to say. 14:35:20
24 Q. And when did the OPA first learn 14:35:22
25 of the decision? 14:35:24

1 A. I would have -- I can't be 14:35:25
2 precise, but it would've been in the early February. 14:35:27
3 Q. Okay. Now, I'm coming to the 14:35:30
4 Ontario government's decision to -- we -- we term 14:35:35
5 the decision to keep Windstream whole and to freeze 14:35:40
6 the FIT contract, and we can talk about that. 14:35:43
7 But everyone will have to bear with me 14:35:46
8 a little bit during this portion of the examination 14:35:49
9 because there are a lot of redactions on the 14:35:51
10 government documents that I'm going to be putting to 14:35:54
11 Mr. Cecchini. There will be -- unfortunately we 14:35:58
12 will have to go on the -- cut the feed and back on 14:36:01
13 the feed and so on, because if we do it in batches, 14:36:04
14 the chronology won't work, so hopefully it'll -- 14:36:06
15 won't be too onerous. But let's do that. 14:36:09
16 And so -- so please cut the feed now. 14:36:12
17 --- Confidential transcript begins 14:36:14
18 BY MS. SEERS: 14:36:14
19 Q. Okay. So the first -- 14:36:14
20 MS. NETTLETON: One moment so I can 14:36:21
21 check that the audio is off, please. 14:36:22
22 Okay. Thank you. 14:36:24
23 BY MS. SEERS: 14:36:33
24 Q. So the first document is at Tab 14 14:36:33
25 of your binder, and it's Exhibit R-0213. 14:36:34

1 A. Mm-hmm. 14:36:39
2 Q. And if you look at the bottom 14:36:39
3 e-mail, it's an e-mail from Andrew Mitchell. Who is 14:36:42
4 Mr. Mitchell? 14:36:49
5 A. I -- I think he was a policy 14:36:51
6 adviser to the Minister. 14:36:52
7 Q. Minister of Energy, Brad Duguid? 14:36:56
8 A. Yes, that would have been Mr. 14:36:58
9 Duguid. 14:36:59
10 Q. To a number of other Ministry of 14:37:01
11 Energy recipients. 14:37:02
12 A. Mm-hmm. 14:37:07
13 Q. And if you look at Item 3, he 14:37:07
14 says: 14:37:14
15 "The decision points between 14:37:14
16 two options on the Windstream 14:37:17
17 project with a brief 14:37:19
18 description of pros and cons 14:37:20
19 and how we would 14:37:20
20 operationalize the option." 14:37:23
21 He says: 14:37:24
22 [REDACTED]

1 [REDACTED] 14:37:33
2 [REDACTED]
3 [REDACTED]
4 Q. And so -- and -- and if I didn't 14:37:33
5 say so, the date of this e-mail is January 20, 2011. 14:37:37
6 And so the OPA, Mr. Cecchini, was not involved at 14:37:42
7 this point in the decision about what to do with 14:37:45
8 Windstream. Is that correct? 14:37:48
9 A. No, it was not. 14:37:49
10 Q. And so you'll agree with me that 14:37:50
11 this reflects government-level consideration of 14:37:52
12 options about how to treat Windstream's project and 14:37:56
13 FIT contract? 14:37:58
14 A. I just -- it is what it is. I -- 14:38:01
15 I hadn't seen it. 14:38:04
16 Q. It's not an OPA decision? 14:38:05
17 A. It's not an OPA decision. At this 14:38:07
18 point, we were not -- we were not aware of the 14:38:08
19 decision. 14:38:10
20 Q. Right. Okay. We can resume the 14:38:11
21 feed. 14:38:13
22 --- Confidential transcript ends 14:38:13
23 BY MS. SEERS: 14:38:18
24 Q. If you turn up Tab 15, which is 14:38:18
25 Exhibit C-0965 -- 14:38:27

1 A. Mm-hmm. 14:38:30
2 Q. -- we have Mr. Mitchell again, 14:38:30
3 which for the live feed, Mr. Cecchini, confirmed 14:38:34
4 before was -- I believe you said director of policy 14:38:38
5 in the -- 14:38:42
6 A. Well, I don't know his precise 14:38:44
7 title. I know he was in the Minister's office, and 14:38:45
8 he provided policy advice to the Minister. 14:38:48
9 Q. He worked in the policy office, 14:38:50
10 okay -- pardon me -- the Minister of Energy's 14:38:52
11 office. 14:38:55
12 And then the e-mail is to Craig MacLennan, who I 14:38:55
13 understand was the Minister of Energy's Chief of 14:38:57
14 Staff. 14:38:59
15 A. That is my understanding too. 14:39:00
16 Q. And copied to some others. 14:39:02
17 And then he says, "Just finished our 14:39:04
18 meeting," et cetera. 14:39:10
19 "I'm meeting with staff on 14:39:11
20 Monday to, one, set up a 14:39:13
21 meeting for Friday morning 14:39:15
22 with Windstream, keep FIT 14:39:16
23 contract whole and extended." 14:39:18
24 Do you see that? 14:39:20
25 A. Yes. 14:39:22

Page 220

1 Q. And that's a February 4th, 2011 14:39:23
2 e-mail amongst Ministry of Energy officials. And 14:39:26
3 you'll agree with me, again, Mr. Cecchini, this 14:39:31
4 reflects a government-level decision on how to treat 14:39:33
5 Windstream's project and contract? 14:39:37
6 A. Well, I'd say at least it reflects 14:39:39
7 a government-level discussion. 14:39:42
8 Q. Right. Okay. And the OPA was not 14:39:43
9 involved? 14:39:44
10 A. The OPA was not involved. 14:39:45
11 Q. If you could cut the feed again, 14:39:48
12 please. 14:39:50
13 -- Confidential transcript begins 14:39:50
14 BY MS. SEERS: 14:39:50
15 Q. We're at Tab 16. If you could 14:39:50
16 flip the page to page 3. We have an e-mail, again 14:40:02
17 from Mr. Mitchell, sent February 10, 2011, to a 14:40:10
18 number of people in the government, including 14:40:14
19 someone from the Premier's Office and -- and 14:40:19
20 Ministry of the Environment, Ministry of Natural 14:40:22
21 Resources, Ministry of Energy, et cetera. 14:40:24
22 And Mr. Mitchell says, presumably to 14:40:29
23 Mr. Linley, RL: 14:40:32
24 "I filled Craig in, and per 14:40:32
25 my discussion with you 14:40:34

Page 221

1 [REDACTED]
2 [REDACTED]
3 [REDACTED]
4 [REDACTED]
5 [REDACTED]
6 [REDACTED]
7 [REDACTED]
8 [REDACTED]
9 [REDACTED]
10 [REDACTED]
11 [REDACTED]
12 [REDACTED]
13 [REDACTED]
14 [REDACTED]
15 [REDACTED]
16 [REDACTED]
17 [REDACTED]
18 [REDACTED]
19 [REDACTED]
20 [REDACTED]
21 [REDACTED]
22 [REDACTED]
23 [REDACTED]
24 [REDACTED]
25 [REDACTED]

Page 222

1 [REDACTED] 14:41:15
2 Now, again, this reflects 14:41:16
3 government-level discussions, you would agree, about 14:41:23
4 how to treat Windstream's project and FIT contract? 14:41:27
5 A. It would reflect discussions at 14:41:31
6 least at the political level. 14:41:34
7 Q. Right. And -- and the OPA was not 14:41:35
8 involved in those discussions? 14:41:39
9 A. By this time, I would say the OPA 14:41:41
10 was aware of the decision. This was the day before 14:41:42
11 the announcement. 14:41:45
12 Q. Right. Was aware of the 14:41:46
13 moratorium decision? 14:41:46
14 A. Aware of the moratorium. And I 14:41:48
15 know I had had discussions prior to this date under 14:41:49
16 the understanding that the government wished that 14:41:54
17 the opportunity be preserved as to what we could do. 14:41:57
18 And I know that I had discussions with my superior, 14:42:02
19 JoAnne Butler, who is the -- who is our 14:42:06
20 vice-president and -- 14:42:07
21 Q. There's no one, though, from the 14:42:09
22 OPA copied on this e-mail chain. 14:42:10
23 A. Not copied on the e-mail. I'm 14:42:13
24 just letting you know that we had discussions by 14:42:14
25 this time as to what we thought, in the contract, we 14:42:17

Page 223

1 could do to preserve the opportunity, and we had a 14:42:19
2 view by this time. I don't know if that had been 14:42:22
3 communicated. 14:42:26
4 Q. You don't know if it had been 14:42:28
5 communicated to the Ministry? 14:42:29
6 A. Communicated, no. 14:42:31
7 Q. And so now I draw your attention 14:42:31
8 to Mr. Mitchell. He says: 14:42:34
9 [REDACTED]
10 [REDACTED]
11 [REDACTED]
12 [REDACTED]
13 [REDACTED]
14 [REDACTED]
15 [REDACTED]
16 [REDACTED]
17 [REDACTED]
18 [REDACTED]
19 [REDACTED]
20 [REDACTED] 14:43:01
21 Q. You state in your witness 14:43:04
22 statement, Mr. Cecchini, that: 14:43:05
23 "The OPA's own intention was 14:43:07
24 to explore ways to 14:43:10
25 effectively freeze the 14:43:12
project within the parameters 14:43:13

Page 224

1 of the FIT contract until the 14:43:15
2 deferral was lifted." 14:43:16
3 Is that correct? 14:43:17
4 A. We understood the government 14:43:18
5 wished that their opportunity be preserved. And so 14:43:20
6 we had a discussion before the February 11 meeting 14:43:23
7 as to what we thought would be appropriate. 14:43:26
8 Q. So if I could take you to Tab 17, 14:43:29
9 which is a transcription of a telephone call, and I 14:43:33
10 apologize; for the record it's C-0484. 14:43:37
11 A. Yes. 14:43:41
12 Q. It's a transcription of a 14:43:41
13 telephone call on February 10 -- 11, 2011, between 14:43:43
14 Windstream and -- and several government 14:43:48
15 representatives. And I understand you were also on 14:43:52
16 that call. 14:43:53
17 A. I was on that call. 14:43:53
18 Q. Okay. Now, if you flip to page 2, 14:43:55
19 see at the bottom of the page, there's a statement 14:44:08
20 from Mr. Mitchell again? 14:44:10
21 A. Mm-hmm. 14:44:12
22 Q. To -- about five lines from the 14:44:12
23 bottom, he says: 14:44:16
24 "We acknowledge that your 14:44:17
25 project is unique and that it 14:44:19

Page 226

1 you. So that is Energy's 14:44:51
2 position. I'm going to pass 14:44:53
3 it along to MOE next, and 14:44:55
4 then MNR finally." 14:44:57
5 So I take it, from this, that the 14:44:58
6 Ministry of Energy had asked you to negotiate a 14:45:05
7 number of contractual terms with Windstream? 14:45:08
8 A. My -- before this -- before this 14:45:10
9 transcript, which you have the transcript from, I 14:45:16
10 think, Mr. Baines and so it's his call. 14:45:19
11 So there was a discussion before we went on the 14:45:22
12 call. And at that discussion, I talked to Mr. 14:45:27
13 Mitchell about what our -- from the OPA side, what 14:45:32
14 we thought would be -- what we could do. And so 14:45:37
15 those three things were things that I had raised 14:45:41
16 with him prior to the call. 14:45:45
17 Q. Okay. 14:45:48
18 A. So I don't -- so I -- while I 14:45:49
19 realize you have that other information, I can't say 14:45:51
20 whether he was repeating what I said to him or 14:45:53
21 things he could have said independently. 14:45:55
22 I do know those three things were the 14:45:57
23 three things I had discussed with my vice-president 14:45:59
24 and my director, prior to the meeting, and those 14:46:00
25 were the three items that I was authorized to say 14:46:04

Page 225

1 has a FIT contract, and so to 14:44:20
2 that end, Perry is here." 14:44:22
3 So you are here. 14:44:23
4 A. Hmm-hmm. 14:44:25
5 Q. (Reading): 14:44:26
6 "But we've asked that the OPA 14:44:26
7 sit down with you to 14:44:27
8 negotiate a number of pieces, 14:44:28
9 including the force majeure 14:44:30
10 provisions, the two-year 14:44:31
11 force majeure termination 14:44:31
12 clause, and associated with 14:44:33
13 those provisions --" 14:44:34
14 Pardon me. 14:44:35
15 "-- the two-year force 14:44:36
16 majeure termination clause 14:44:37
17 associated with those 14:44:39
18 provisions, and the security 14:44:39
19 deposits. So you know -- and 14:44:41
20 we realize that there is a 14:44:43
21 uniqueness to your position, 14:44:45
22 given that you have a FIT 14:44:46
23 contract, and we're going to 14:44:47
24 attempt to create a solution 14:44:48
25 that will be acceptable to 14:44:50

Page 227

1 that we could do to be helpful. 14:46:07
2 Q. Okay. So I understand that. And 14:46:09
3 just -- just to clarify, you said this was Mr. 14:46:11
4 Baines' transcript, but this is actually an audio 14:46:13
5 recording of the -- a transcript of an audio 14:46:16
6 recording -- 14:46:19
7 A. I understand that. What I'm just 14:46:20
8 saying is, while the capture is their side, we came 14:46:21
9 in, in the middle of that transcript. There was a 14:46:24
10 discussion that occurred before this transcript. 14:46:26
11 Q. Amongst you and the Ministry? 14:46:30
12 A. Amongst us and the people on the 14:46:31
13 -- because we were all in one room. 14:46:33
14 Q. Right. 14:46:34
15 A. So everybody who was there from 14:46:35
16 the Crown was in one boardroom, and there was a 14:46:37
17 brief discussion before the call. 14:46:39
18 Q. Okay. 14:46:42
19 A. And at that discussion, I raised 14:46:43
20 those three items from the OPA perspective. 14:46:45
21 Q. So you raise items from the OPA 14:46:48
22 perspective with the Ministry officials, but the 14:46:50
23 Ministry official, Mr. Mitchell, tells Windstream 14:46:53
24 that he has asked -- 14:46:55
25 A. Yes. 14:46:56

Page 228

1 Q. -- you -- 14:46:56
2 A. Yes. 14:46:57
3 Q. -- to sit down and negotiate with 14:46:57
4 them; correct? 14:46:58
5 A. Yes. I realize he said that, but 14:46:59
6 I'm just saying those three items, I had suggested 14:47:01
7 to Mr. Mitchell, were areas that we thought we could 14:47:05
8 do something. 14:47:07
9 Q. Okay. And Mr. Mitchell also said 14:47:08
10 that the negotiating -- the negotiation would 14:47:12
11 include a number of pieces, include a number of 14:47:15
12 pieces, and he lists those three things. 14:47:22
13 A. Yep. 14:47:24
14 Q. But you'll agree with me, based on 14:47:24
15 what Mr. Mitchell is saying, the negotiations 14:47:26
16 weren't necessarily going to be limited to those 14:47:28
17 three things, based on what Mr. Mitchell is 14:47:30
18 communicating on this call. 14:47:34
19 A. I'm not so sure I agree with that 14:47:39
20 statement. Three is a number. I think we 14:47:41
21 eventually, in our subsequent discussions, we agreed 14:47:44
22 to -- there was one other item that was raised that 14:47:47
23 we agreed to and maybe another. So those were, I 14:47:50
24 think -- I can only speak for the OPA. 14:47:53
25 Q. Right. 14:47:56

Page 229

1 A. Those were the areas that we 14:47:57
2 thought we could give something. 14:47:59
3 Q. I understand what you are saying 14:48:00
4 about what the OPA thought it could do. But I'm 14:48:02
5 asking you about what Mr. Mitchell told Windstream 14:48:04
6 the Ministry would do. And what Mr. Mitchell said 14:48:07
7 is that he had asked you here: 14:48:10
8 "We, the Ministry, asked the 14:48:12
9 OPA to sit down with 14:48:15
10 Windstream and negotiate a 14:48:16
11 number of pieces, including 14:48:17
12 the force majeure provisions, 14:48:20
13 the two-year force majeure 14:48:21
14 termination clause, and the 14:48:23
15 security deposits." 14:48:24
16 A. Yes. 14:48:25
17 Q. So -- 14:48:29
18 A. I never -- 14:48:31
19 Q. According to Mr. Mitchell, the 14:48:32
20 negotiations weren't necessarily limited to those 14:48:34
21 three things; correct? 14:48:36
22 A. Well, not -- maybe not 14:48:37
23 necessarily. I've never received any sense that we 14:48:38
24 needed to go beyond that. But anyway... 14:48:42
25 Q. Okay. Why don't we move on to 14:48:45

Page 230

1 page 7, then. So in the middle of the page, you see 14:48:46
2 a paragraph with Mr. Chris Benedetti, and -- and you 14:48:53
3 understand Mr. Benedetti is a government relations 14:48:57
4 representative for Windstream; right? 14:49:01
5 A. Yes, I'm aware of who 14:49:03
6 Mr. Benedetti is. 14:49:04
7 Q. So Mr. Benedetti says: 14:49:05
8 "So, Craig, this is Chris. 14:49:06
9 Maybe if I can paraphrase 14:49:08
10 where things stand. So, in 14:49:10
11 essence, what has happened, 14:49:12
12 well, I guess as it pertains 14:49:13
13 in layman's speak to the 14:49:15
14 Windstream project, things 14:49:16
15 are essentially on hold until 14:49:17
16 such time as the province can 14:49:19
17 establish a regulation under 14:49:20
18 the Ministry of Environment, 14:49:22
19 under REA, pertaining to 14:49:22
20 offshore wind. There will be 14:49:25
21 no further movement on 14:49:27
22 offshore wind development for 14:49:28
23 anybody. But, essentially, 14:49:29
24 the Windstream project is the 14:49:30
25 only one that is, at this 14:49:32

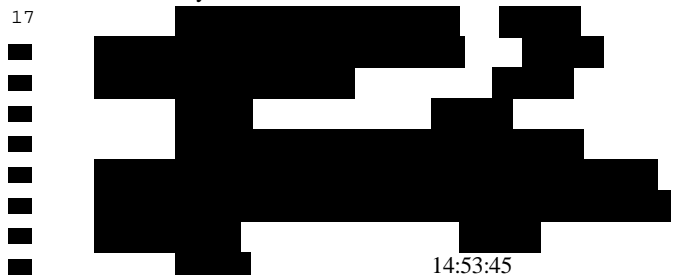
Page 231

1 point, I'm going to use the 14:49:33
2 word, deferred or frozen, 14:49:34
3 whereas all other projects 14:49:37
4 are essentially quashed or 14:49:38
5 cancelled or however you want 14:49:40
6 to put it and that the 14:49:41
7 discussion with the OPA would 14:49:42
8 be to ensure that the 14:49:43
9 requirements embedded in the 14:49:44
10 FIT contract reflect this 14:49:46
11 situation and that there is 14:49:47
12 no penalties or anything that 14:49:48
13 would be incurred by 14:49:50
14 Windstream." 14:49:52
15 And then Mr. MacLennan, who is the 14:49:52
16 Chief of Staff to the Ministry of Energy, says, 14:49:54
17 "Yes." You see that? 14:49:59
18 A. Yes, I do. 14:50:01
19 Q. Okay. So Mr. MacLennan is 14:50:01
20 speaking for the government. You would agree? 14:50:05
21 A. I would think he's speaking for 14:50:09
22 the Ministry. 14:50:10
23 Q. For the Ministry of Energy? 14:50:12
24 A. Yep. 14:50:13
25 Q. And on behalf of the Ministry of 14:50:14

1 Energy, he is agreeing that the project will be 14:50:17
 2 deferred or frozen. Do you agree with that? 14:50:19
 3 A. That -- I would agree with that. 14:50:22
 4 Q. And that the OPA would amend the 14:50:29
 5 FIT contract to reflect the moratorium situation so 14:50:31
 6 that there would be no penalties or anything that 14:50:34
 7 would be incurred by Windstream. That's what he 14:50:37
 8 says, or he agrees to anyway? 14:50:39
 9 A. That's what he says. 14:50:41
 10 Q. Okay. And the project would be 14:50:42
 11 deferred until the REA regulation was amended 14:50:44
 12 regarding offshore wind. 14:50:46
 13 A. Let me... 14:50:51
 14 Q. He says: 14:50:53
 15 "Things are essentially on 14:50:53
 16 hold until such time as the 14:50:56
 17 province can establish a 14:50:57
 18 regulation under the Ministry 14:50:58
 19 of the Environment, under 14:50:59
 20 REA, pertaining to offshore 14:51:01
 21 wind." 14:51:03
 22 A. Yes. 14:51:03
 23 Q. Right? 14:51:07
 24 A. Yes. 14:51:07
 25 Q. And at page 8, you have Brenda 14:51:08

1 Lucas from the Ministry of the Environment. In the 14:51:17
 2 middle, Mr. Mars, from Windstream, asks: 14:51:25
 3 "Is it possible to provide an 14:51:27
 4 order of magnitude in regards 14:51:30
 5 to -- maybe you can't, but 14:51:31
 6 just an order of magnitude in 14:51:34
 7 regards to how long you 14:51:36
 8 anticipate studying? I know 14:51:37
 9 Ian --" 14:51:38
 10 That's Ian Baines. 14:51:38
 11 "-- is asking for very 14:51:40
 12 specific what it is you are 14:51:41
 13 going to study. But, I 14:51:42
 14 guess, just in general, do 14:51:43
 15 you have a sort of order of 14:51:45
 16 magnitude? A week? A month? 14:51:46
 17 Years?" 14:51:48
 18 And then Ms. Lucas, for the Ministry 14:51:48
 19 of the Environment, says: 14:51:52
 20 "I can't. We don't know 14:51:53
 21 really, but it will be 14:51:55
 22 more -- it'll be more than 14:51:56
 23 months for sure. Probably 14:51:58
 24 more like years." 14:52:00
 25 Right? 14:52:00

1 A. Yes, that's what it says. 14:52:03
 2 Q. And so she could not specify an 14:52:04
 3 end date to the moratorium? 14:52:07
 4 A. She did not specify an end date. 14:52:09
 5 Q. And so you agree, then, that the 14:52:11
 6 promise to freeze the FIT contract that Mr. 14:52:13
 7 MacLennan made, on behalf of the Minister of Energy, 14:52:15
 8 Ministry of Energy, should be effective for the 14:52:19
 9 duration of the moratorium, whatever its length; 14:52:23
 10 right? 14:52:25
 11 A. Obviously the OPA had a different 14:52:27
 12 view. 14:52:32
 13 Q. Right. But I'm not asking you 14:52:32
 14 about the OPA's view. I'm asking you what the 14:52:33
 15 Ministry -- 14:52:36
 16 A. I think you have to talk to 14:52:36
 17 somebody from the Ministry about what their view is. 14:52:37
 18 Q. Okay. We will. Is that what you 14:52:40
 19 understand the government or the Ministry of Energy 14:52:42
 20 was telling Windstream? 14:52:44
 21 A. I -- with the words on the page. 14:52:47
 22 Q. Right. Okay. Now I want to take 14:52:51
 23 you to the without prejudice letters between the OPA 14:52:51
 24 and Windstream. 14:52:56
 25 A. Yes, sure. 14:52:58

1 Q. The -- the OPA provided those 14:52:59
 2 letters to Canada to be filed in support of their 14:53:05
 3 defence in this case even though they were expressly 14:53:06
 4 exchanged on a without prejudice basis; right? 14:53:10
 5 A. We shared with Canada our 14:53:12
 6 discussions. 14:53:13
 7 Q. You shared with Canada the without 14:53:14
 8 prejudice letters? 14:53:16
 9 A. Yes. 14:53:17
 10 Q. And they filed them in this case? 14:53:17
 11 A. Yes. 14:53:19
 12 Q. Okay. Now, in your witness 14:53:19
 13 statement, you focus entirely on the early 14:53:21
 14 negotiations, but today I would like to focus your 14:53:24
 15 attention on the final offers that were on the 14:53:28
 16 table. Okay? 14:53:30
 17  14:53:45

[REDACTED]

1 [REDACTED]

1 [REDACTED]
14:56:22

1 [REDACTED]
14:57:19

1 [REDACTED]
2 [REDACTED]
3 [REDACTED]
4 [REDACTED]
5 [REDACTED]
6 [REDACTED]
7 [REDACTED]
8 [REDACTED]
9 [REDACTED]
10 [REDACTED]
11 [REDACTED]
12 [REDACTED]
13 [REDACTED]
14 [REDACTED]
15 [REDACTED]
16 [REDACTED]
17 [REDACTED]
18 [REDACTED]
19 [REDACTED]
20 [REDACTED]
21 [REDACTED]
22 [REDACTED] 14:58:30
23 Q. Okay. Now we can go back on the 14:58:31
24 feed. 14:58:32
25 --- Confidential transcript ends 14:58:32
BY MS. SEERS: 14:58:35

1 Q. If you could turn to Tab 22 of 14:58:35
2 your binder, which is Exhibit R-0264, this is -- so 14:58:42
3 the Windstream letter was July 5, 2011, and this is 14:58:50
4 the response from the OPA's lawyers on October 12, 14:58:53
5 2011. And it says the following: 14:58:58
6 "I acknowledge receipt of 14:59:00
7 your without prejudice letter 14:59:02
8 of July 5, 2011, sent in your 14:59:03
9 role as counsel to the 14:59:06
10 supplier to us, as counsel to 14:59:07
11 the OPA, et cetera. The OPA 14:59:08
12 has reviewed the content of 14:59:11
13 the July 5 letter and has 14:59:12
14 instructed me to communicate 14:59:14
15 to you that the views of the 14:59:15
16 OPA, as set out in its letter 14:59:16
17 of March 18 and June 24, 14:59:17
18 remain unchanged." 14:59:20
19 [REDACTED] 14:59:29
20 [REDACTED] 14:59:32
21 Q. Okay. Now, just quickly, if you 14:59:32
22 could turn up Tab 23. This is Exhibit -- pardon 14:59:39
23 me -- Exhibit C-1025. You will see at the bottom, 14:59:56
24
25

1 it's an e-mail from a legal assistant at BLG, which 15:00:02
2 is a law firm, to the OPA's lawyer, Mr. Clark, July 15:00:07
3 5, 2011. So this is attaching the Windstream final 15:00:12
4 offer. Is that -- 15:00:17
5 A. Mm-hmm. 15:00:17
6 Q. -- is that correct? As far as you 15:00:20
7 know? And it's copied to -- 15:00:22
8 A. Well, I have never seen it before 15:00:22
9 today. 15:00:25
10 Q. You've never seen it before? 15:00:26
11 Okay. 15:00:27
12 A. Okay. 15:00:27
13 Q. It's copied to -- it's sent to the 15:00:27
14 OPA's lawyers, but it's copied to Lana Deluca at the 15:00:31
15 Ministry of Energy; Andrew Mitchell, at the Ministry 15:00:35
16 of Energy; Sabrina Grando, at the Ministry of 15:00:37
17 Consumer Services. Who is Ms. Grando? Do you know? 15:00:39
18 A. I have no idea. 15:00:42
19 Q. Okay. And others. And then Ms. 15:00:43
20 Grando sends it to Craig MacLennan at the Ministry 15:00:45
21 of Energy and Sean Mullin at the Premier's Office. 15:00:49
22 Do you see that? 15:00:54
23 A. I -- I see it. 15:00:56
24 Q. And then Ms. Grando sends it to -- 15:00:57
25 again to Craig MacLennan and Andrew Mitchell at the 15:01:01

1 Ministry of Energy. 15:01:05
2 [REDACTED] 15:01:18
3 [REDACTED]
4 [REDACTED]
5 [REDACTED]
6 A. I'm not aware of that, but I 15:01:22
7 should let you know that I was out of the country 15:01:24
8 for most of the month of July that year. 15:01:27
9 Q. Okay. So but you're not aware of 15:01:28
10 anyone? 15:01:30
11 A. I'm not aware of that. 15:01:31
12 Q. And -- and you're not ware of 15:01:32
13 anyone else in the government other than those 15:01:33
14 people making such a request? 15:01:34
15 A. No. But I was aware that 15:01:36
16 Windstream lobbied actively and everywhere. 15:01:38
17 Q. Right. 15:01:43
18 A. So I'm not surprised that 15:01:43
19 documents were circulated. 15:01:47
20 Q. Okay. 15:01:49
21 MS. SEERS: If I could perhaps have a 15:01:49
22 one moment to confer with my colleagues, Mr. 15:01:51
23 President. 15:01:54
24 -- [Counsel confer.] 15:01:54
25 BY MS. SEERS: 15:02:15

Page 244

1 Q. Briefly, now, Mr. Cecchini, I'm 15:02:44
2 going to take you to the cancellation of 15:02:45
3 TransCanada's proposed gas-fired power plant that 15:02:51
4 was to be located in Oakville, Ontario. 15:02:55
5 I understand that TransCanada had a 15:02:59
6 clean energy supply agreement with the OPA for the 15:03:00
7 Oakville plant. Is that right? 15:03:03
8 A. I understand there was a contract 15:03:05
9 in place for a gas power plant. 15:03:06
10 Q. And TransCanada had not obtained 15:03:09
11 the required permits for that facility or all of 15:03:11
12 them? It hadn't obtained all of them? 15:03:15
13 A. I'm dealing from hearsay. I was 15:03:17
14 not involved in this file whatsoever. 15:03:18
15 Q. Okay. You're the OPA witness 15:03:20
16 that's been put forward. 15:03:25
17 A. Okay. 15:03:26
18 Q. So I will put the questions to 15:03:26
19 you. 15:03:27
20 A. Okay. 15:03:28
21 Q. If you don't know the answer, 15:03:28
22 please just say so. 15:03:30
23 A. Yes, okay. 15:03:31
24 Q. There was litigation, I understand 15:03:35
25 it, regarding permitting and bylaws between 15:03:37

Page 246

1 I think -- I'm more aware of the one in Mississauga 15:04:45
2 -- 15:04:47
3 Q. Right. 15:04:47
4 A. -- and the promise -- and the 15:04:47
5 election promise related to the Mississauga plant. 15:04:50
6 Q. Okay. 15:04:52
7 A. Not specifically to the Oakville 15:04:52
8 plant. 15:04:53
9 Q. Are you aware that the government 15:04:53
10 confirmed that the plant would be cancelled in 15:04:55
11 October 2010? 15:04:58
12 A. I can't speak to that. I don't 15:05:00
13 know that. 15:05:01
14 Q. Now, I'm going to take you to a 15:05:02
15 transcript -- 15:05:05
16 A. I'm not trying to. 15:05:05
17 Q. Yes. 15:05:05
18 A. I just want to say I wasn't -- I 15:05:05
19 was doing -- I had my hands full on the renewable 15:05:07
20 side. 15:05:10
21 Q. I understand. I understand. And 15:05:11
22 it's not -- I'm just asking whether you know. 15:05:11
23 That's all. 15:05:12
24 A. Okay. 15:05:13
25 Q. Just because you're the -- you're 15:05:14

Page 245

1 TransCanada and the Municipality of Oakville. Is 15:03:42
2 that right? You don't know? 15:03:45
3 A. I can't confirm. I don't know the 15:03:45
4 specifics. I'm sorry. 15:03:47
5 Q. And certainly TransCanada had not 15:03:50
6 commenced construction on its facility? 15:03:54
7 A. It is my understanding, no, they 15:03:57
8 hadn't commenced construction. 15:03:59
9 Q. It was under force majeure. Its 15:04:01
10 contract was under force majeure? 15:04:03
11 A. I can't say. I don't know that. 15:04:05
12 Q. You don't know? 15:04:06
13 A. Specifically, no. 15:04:06
14 Q. I understand that the contract had 15:04:11
15 a two-year force majeure termination, right, just 15:04:13
16 like the FIT contract with Windstream? Are you 15:04:15
17 aware of that? 15:04:17
18 A. I'm not aware of that. 15:04:18
19 Q. Not aware? Are you aware that, as 15:04:19
20 an election promise during the 2011 -- pardon me -- 15:04:22
21 the 2010 election, Premier McGuinty promised to 15:04:24
22 cancel the Oakville plant? 15:04:27
23 A. You know, it's hard for me because 15:04:35
24 I think I may recall that, but I'm not -- I can't 15:04:36
25 speak to that specifically. I know promises were -- 15:04:40

Page 247

1 the OPA -- 15:05:15
2 A. I understand. 15:05:15
3 Q. -- person who has been put 15:05:15
4 forward. 15:05:16
5 A. Yes. 15:05:17
6 Q. Now, I'm going to take you to a 15:05:19
7 transcript, but it may cause a reaction from the 15:05:26
8 Government of Canada's side, given positions that 15:05:31
9 had been asserted previously in this proceeding, so 15:05:34
10 I would just ask that my colleagues let me finish 15:05:36
11 the question, and if there is an objection, then 15:05:40
12 they can raise it -- 15:05:42
13 A. Mm-hmm. 15:05:43
14 Q. -- after I'm done the question but 15:05:43
15 before the witness answers. 15:05:45
16 PRESIDENT: Is this confidential? 15:05:46
17 MS. SEERS: No. 15:05:48
18 BY MS. SEERS: 15:05:50
19 Q. So I'm going to take you to a 15:05:50
20 transcript of testimony before the Standing 15:05:53
21 Committee on Justice Policy of the Ontario 15:05:55
22 Legislature -- 15:05:58
23 A. Mm-hmm. 15:05:59
24 Q. -- which you will find at Exhibit 15:05:59
25 C-0645, which is Tab 25 of your binder. And if you 15:06:01

Page 248

1 will go to page JP87. 15:06:12
2 A. Mm-hmm. 15:06:15
3 Q. This is a transcript of testimony 15:06:21
4 that Ms. JoAnne Butler of the OPA gave before that 15:06:24
5 committee. I think you said Ms. Butler is the 15:06:26
6 vice-president at the OPA? 15:06:30
7 A. I report through Michael Killeavy 15:06:32
8 to Ms. Butler. 15:06:33
9 Q. You report to Mr. Killeavy who 15:06:35
10 reports to Ms. Butler? 15:06:37
11 A. Yes, I do. 15:06:38
12 Q. Okay. And I'm just going to read 15:06:39
13 from this transcript. You don't need to answer any 15:06:41
14 question until I'm done, and then we can deal with 15:06:43
15 any potential objections. 15:06:45
16 A. Okay. 15:06:47
17 Q. At page 87, if you go -- pardon 15:06:48
18 me. There is a question from Mr. Victor Fedeli on 15:06:57
19 the -- on the left-hand side, about the middle of 15:07:06
20 the page. Do you see that? 15:07:08
21 A. There is many questions, but -- 15:07:12
22 Q. So Victor Fedeli. So on page 8, 15:07:14
23 there's an e-mail here that says -- 15:07:16
24 A. I got it. 15:07:17
25 Q. -- JoAnne Butler, et cetera. Then 15:07:17

Page 250

1 And Ms. Butler says: 15:07:54
2 "The instructions basically 15:07:56
3 were the commitments that the 15:07:57
4 government had made with 15:07:59
5 TransCanada prior to letting 15:08:01
6 the OPA know were basically 15:08:02
7 outlined in a letter that the 15:08:04
8 OPA wrote to TransCanada, 15:08:05
9 because we held the contract, 15:08:06
10 which basically said, 'We're 15:08:08
11 going to work together to 15:08:09
12 come up with a new proposal 15:08:11
13 and that you would get the 15:08:12
14 financial value of your 15:08:14
15 contract.'" 15:08:15
16 Do you see that? 15:08:15
17 A. Mm-hmm. 15:08:16
18 Q. And so my -- my question is simply 15:08:25
19 this: Do you have any understanding of these events 15:08:27
20 in terms of the Premier's Office direction to the 15:08:36
21 OPA in connection with that matter? And if you do, 15:08:40
22 is it different from Ms. Butler's? Please don't 15:08:44
23 answer the question. I'll let my friends, if they 15:08:46
24 have an objection, raise it. 15:08:49
25 A. I have no understanding of the 15:08:50

Page 249

1 he changes the -- the paragraph. He says: 15:07:19
2 "Were you in frequent 15:07:20
3 communication with the Premier's 15:07:22
4 Office, or can you tell us a 15:07:23
5 little bit about this particular 15:07:25
6 call from back in 2011? 15:07:26
7 Ms. Butler says: 15:07:27
8 "The only person I remember 15:07:29
9 dealing with from the 15:07:31
10 Premier's Office was Sean 15:07:31
11 Mullin, so Sean must have 15:07:32
12 been on that call." 15:07:35
13 Then a little bit later she says: 15:07:35
14 "He was --" 15:07:38
15 Sean Mullin. 15:07:39
16 "-- he was in the Premier 15:07:39
17 office, I believe, on the 15:07:42
18 energy file." 15:07:43
19 Mr. Fedeli asks: 15:07:44
20 "So the Premier's Office was 15:07:46
21 interested in these files 15:07:48
22 back in 2011. Can you tell 15:07:49
23 us anything, any details 15:07:51
24 about your instructions from 15:07:52
25 the Premier's Office?" 15:07:53

Page 251

1 events. 15:08:53
2 Q. You don't? 15:08:53
3 A. No. 15:08:54
4 Q. So you weren't involved in that 15:08:55
5 matter? 15:08:56
6 A. I was not involved in the gas 15:08:56
7 plants whatsoever. 15:08:58
8 Q. Okay. Those are my questions. 15:08:59
9 Thank you, Mr. Cecchini. 15:09:04
10 PRESIDENT: Thank you, Ms. Seers. 15:09:07
11 Any questions on redirect? You need to confer? 15:09:10
12 MR. SPELLISCY: One minute. Yes. 15:09:17
13 --- [Counsel confer.] 15:09:19
14 RE-EXAMINATION BY MS. SQUIRES: 15:09:39
15 Q. Just a couple of short questions 15:09:39
16 for you, Mr. Cecchini. 15:10:24
17 A. Okay. 15:10:25
18 Q. If the OPA were to terminate 15:10:27
19 Windstream's contracts under section 10.1(g) -- 15:10:30
20 A. Yes. 15:10:32
21 Q. -- on May 4, 2017 -- 15:10:33
22 A. Mm-hmm. 15:10:35
23 Q. -- what would happen to the letter 15:10:35
24 of credit? 15:10:36
25 A. It would be returned. 15:10:38

Page 252

1 Q. And if Windstream were to wait 15:10:39
2 until May 4, 2017 to terminate its contract, what 15:10:41
3 would happen to the letter of credit? 15:10:44
4 A. It would be returned. 15:10:46
5 Q. And when Windstream wrote in 2014 15:10:48
6 asking for -- 15:10:51
7 A. Sorry, can I say, it would be -- I 15:10:52
8 shouldn't say returned. It would be cancelled 15:10:53
9 because the letter of credit's in our name. So we 15:10:55
10 would write a letter to the bank cancelling the 15:10:58
11 letter of credit. 15:11:00
12 Q. Okay. And when Windstream wrote 15:11:00
13 to the OPA in 2014 asking for its letter of credit 15:11:03
14 back, can you explain specifically why the OPA 15:11:06
15 refused that? 15:11:09
16 A. Well, we didn't have an agreement 15:11:11
17 with Windstream. So our offer was in the context of 15:11:13
18 coming up with a larger agreement. 15:11:18
19 The other reason is that is -- when 15:11:20
20 you get a FIT contract, you're holding grid space. 15:11:24
21 That grid space is very valuable. And so one of the 15:11:27
22 reasons we insist on having that letter of credit 15:11:31
23 for people who are in development is we need to 15:11:33
24 maintain -- there has to be some kind of investment 15:11:37
25 in order to ensure that the transmission space is 15:11:40

Page 254

1 contracts, is it doing so with the idea that it 15:12:39
2 needs that power, the power that's being offered by 15:12:43
3 the proponent? 15:12:49
4 THE WITNESS: With regards to the FIT 15:12:51
5 contract, it is complicated because the FIT contract 15:12:53
6 had multiple -- FIT program had multiple objectives. 15:13:00
7 It was -- on one hand, it was a 15:13:04
8 purchasing power. On the other hand -- like, I 15:13:06
9 would go through three objectives. On one 15:13:09
10 objective, it is to obtain power for the Ontario, 15:13:12
11 for the province and its citizens. 15:13:16
12 It's also in place for environmental -- how should I 15:13:18
13 say -- reducing the environmental footprint of our 15:13:23
14 electricity generation fleet. So there is an 15:13:26
15 environmental objective. 15:13:29
16 And this program was essentially 15:13:31
17 developed in 2008. So there was a strong economic 15:13:35
18 development objective associated with the program. 15:13:38
19 So when you are looking at it, you 15:13:42
20 have to look at all three. And the -- and so the 15:13:43
21 policy objectives that we were dealing with were 15:13:48
22 quite complicated and varied. And, you know, you're 15:13:50
23 trying to balance those three objectives. 15:13:52
24 MR. BISHOP: Okay. And in that 15:13:55
25 regard, then, how does the OPA go about managing the 15:13:57

Page 253

1 still needed and that -- with regards to the 15:11:44
2 supplier. We don't want to leave that transmission 15:11:47
3 space kind of allocated to somebody forever without 15:11:50
4 any investment. 15:11:55
5 Q. Okay. Those are all of my 15:11:58
6 questions. 15:11:59
7 A. Okay. Thank you. 15:11:59
8 PRESIDENT: Thank you, Ms. Squires. 15:12:05
9 QUESTIONS FROM THE TRIBUNAL: 15:12:06
10 MR. BISHOP: I have a few questions 15:12:08
11 for you. 15:12:10
12 THE WITNESS: Sure. 15:12:11
13 MR. BISHOP: And I'll try to -- try 15:12:12
14 to put this in, in some sort of order. 15:12:16
15 THE WITNESS: Okay. 15:12:21
16 MR. BISHOP: I realize you're on the 15:12:22
17 contract management side -- 15:12:23
18 THE WITNESS: Yes, I am. 15:12:25
19 MR. BISHOP: -- not the offer side, 15:12:26
20 as I understand it. 15:12:28
21 THE WITNESS: Right. 15:12:29
22 MR. BISHOP: But let me ask you 15:12:30
23 about -- to see if you can answer. 15:12:32
24 THE WITNESS: Okay. 15:12:35
25 MR. BISHOP: When the OPA offers 15:12:36

Page 255

1 power that it's purchasing, that is, the capacity, 15:14:05
2 so that it doesn't either underpurchase or 15:14:08
3 overpurchase when you have projects like this that 15:14:13
4 are in development? How does it manage those? 15:14:16
5 And in that regard, does OPA put out 15:14:19
6 an annual report or a regular report that talks 15:14:23
7 about the power capacity in the future and how it's 15:14:27
8 managing this? 15:14:35
9 THE WITNESS: We have -- it's gotten 15:14:36
10 more complicated because there has been a merger in 15:14:38
11 the last, I think, 14 -- 13 and a half months ago. 15:14:41
12 So we're now part of the IESO. 15:14:46
13 So the OPA would do long-term 15:14:50
14 planning, and it would work with the government and 15:14:54
15 the Crown with regard to getting a long-term supply 15:14:57
16 mix plan for the long-term. 15:15:01
17 The IESO, which we are now part of, 15:15:04
18 does outlooks. And I think they still -- I know at 15:15:07
19 one point they were doing 18-month outlooks. 15:15:11
20 And so there are -- there's kind of 15:15:13
21 different levels of groups within the organization 15:15:15
22 that does the planning function. 15:15:18
23 I'm in the, of course, the contract 15:15:20
24 management function, and we basically take the 15:15:22
25 contracts we're given, and we manage them according 15:15:25

Page 256

1 to the terms of those contracts. We have specific 15:15:27
2 groups that do go planning. 15:15:31
3 MR. BISHOP: Okay. Do you know 15:15:33
4 whether, in any of the plans or reports about how to 15:15:34
5 manage the future, there's any discussion or any 15:15:40
6 mention of the Windstream contract? 15:15:43
7 THE WITNESS: It would be booked. I 15:15:47
8 mean, our planning people would know what we've 15:15:51
9 contracted. They also do wires planning, and so 15:15:56
10 since Windstream has a FIT contract and it has an 15:16:00
11 allocation of 300 megawatts to the grid at that 15:16:03
12 particular part in Kingston, they would be aware of 15:16:07
13 that in their -- for planning purposes. 15:16:10
14 You know, at this point, they would 15:16:15
15 know that the contract, from our point of view, is 15:16:17
16 in force majeure, and so no development activities 15:16:21
17 have taken place because it was put in force majeure 15:16:22
18 so early in its development cycle. 15:16:29
19 MR. BISHOP: Okay. Do I understand 15:16:31
20 from that -- 15:16:32
21 THE WITNESS: Yes. 15:16:33
22 MR. BISHOP: -- that this contract 15:16:35
23 would somewhere be within the long-term plan? 15:16:37
24 THE WITNESS: I can't say that. What 15:16:43
25 I'm talking about is more from the wires 15:16:45

Page 258

1 MR. BISHOP: Mm-hmm. 15:17:43
2 THE WITNESS: And so when we do -- so 15:17:43
3 generally when we do procurements, we try to make 15:17:47
4 sure that we're contracting for facilities that can 15:17:49
5 actually connect to the grid. And so we won't 15:17:53
6 procure contracts if the grid space is already 15:17:58
7 taken. And that's what I mean. 15:18:00
8 MR. BISHOP: Okay. I think you 15:18:02
9 probably just answered this, then, but let me make 15:18:04
10 sure. You had said at one point that the contract 15:18:08
11 was taking up wire space in the province, and at 15:18:10
12 another point you said it was holding grid space, 15:18:14
13 which is very valuable. That's what you're 15:18:16
14 referring to? 15:18:18
15 THE WITNESS: That's what I'm 15:18:18
16 referring to, that they have a contract. Grid space 15:18:19
17 has been booked to that contract. And so we -- we 15:18:22
18 kind of figure there is a value to that, and the 15:18:25
19 supplier should be putting -- the deposit that they 15:18:28
20 put down or the security they put down is 15:18:32
21 essentially an investment, on our point of view, 15:18:34
22 that, you know, they need that space. It can't be 15:18:36
23 held there without investment. 15:18:38
24 MR. BISHOP: It sounds like booking 15:18:40
25 that wire space, then, is part of the planning 15:18:42

Page 257

1 perspective. 15:16:47
2 MR. BISHOP: What does that mean, the 15:16:48
3 "wires perspective"? 15:16:48
4 THE WITNESS: What it means is, 15:16:50
5 because we're still under going procurements, so 15:16:51
6 they're still planning from the point of view of 15:16:53
7 future procurements. 15:16:56
8 Right now the 300 megawatts in the 15:16:57
9 Kingston area that Windstream is supposed to be 15:17:01
10 connecting to, that 300 megawatts isn't available 15:17:04
11 for future procurement. So when I'm talking about 15:17:09
12 they would be aware of that, they would be aware 15:17:12
13 that there is a contract there; that wire space has 15:17:13
14 been allocated to that contract. So when they're 15:17:16
15 doing future planning, they can't access that grid 15:17:19
16 space. That's what they would know. 15:17:24
17 I don't know. I can't speak as to, 15:17:27
18 when they're doing their planning assumption, 15:17:29
19 whether they're planning for Windstream, yes or no. 15:17:31
20 MR. BISHOP: Okay. You've mentioned 15:17:33
21 the term "wire space" a couple of times. What does 15:17:35
22 that mean? 15:17:37
23 THE WITNESS: Yes. It just means 15:17:38
24 that there is only so much capacity on the grid for 15:17:39
25 generation projects. 15:17:42

Page 259

1 process. 15:18:45
2 THE WITNESS: Part of the planning 15:18:46
3 process. It is, because we can't -- you know, you 15:18:47
4 can't sell the same thing twice. You have to have 15:18:50
5 the availability. 15:18:53
6 MR. BISHOP: And one last question. 15:18:55
7 You said at one point in your testimony that the 15:18:58
8 government wanted this opportunity to be preserved. 15:19:01
9 And did you mean by that, that it wanted it -- the 15:19:06
10 opportunity to be preserved for Windstream's benefit 15:19:10
11 or for OPA's benefit or both or... 15:19:14
12 THE WITNESS: No. I think that -- 15:19:17
13 you know, it's my word what I think a FIT contract 15:19:19
14 is. When a supplier gets a FIT contract, I don't 15:19:22
15 see it as they get a guarantee. They're being given 15:19:25
16 an opportunity to develop a project. They have to 15:19:28
17 meet the obligations in the contract. 15:19:31
18 So it was our understanding that, when 15:19:32
19 the moratorium came in place, that the government 15:19:36
20 wanted Windstream to have that opportunity kept in 15:19:38
21 place. So they still had to meet all our 15:19:43
22 obligations. It was just keeping that opportunity 15:19:47
23 in place while the moratorium was ongoing. 15:19:49
24 MR. BISHOP: Okay. Thank you, sir. 15:19:51
25 THE WITNESS: Okay. 15:19:52

Page 260

1 DR. CREMADES: You said very clearly 15:19:54
2 that the FIT contract with Windstream is still in 15:19:56
3 place. 15:20:02
4 THE WITNESS: Yes. 15:20:03
5 DR. CREMADES: Do you have other 15:20:04
6 contracts in a limbo situation like this one? 15:20:05
7 THE WITNESS: No. I would say in 15:20:09
8 this -- kind of like this, with the long-term force 15:20:14
9 majeure like this, we don't have -- Windstream is 15:20:18
10 unique. 15:20:20
11 DR. CREMADES: When Windstream 15:20:21
12 started this arbitration against Canada -- 15:20:25
13 THE WITNESS: Yes. 15:20:27
14 DR. CREMADES: -- did any settlement 15:20:29
15 negotiations took place? 15:20:34
16 THE WITNESS: We have had no 15:20:37
17 discussions with Windstream since the arbitration 15:20:38
18 was launched. 15:20:45
19 DR. CREMADES: Mm-hmm. And you say 15:20:46
20 that the letter of credit -- 15:20:48
21 THE WITNESS: Other than that request 15:20:51
22 for the letter of credit, I should say, except I 15:20:52
23 think that was done just before the arbitration was 15:20:55
24 launched. 15:20:57
25 DR. CREMADES: Mm-hmm. And you say 15:20:58

Page 261

1 that the -- the letter of credit will only be 15:20:59
2 cancelled, you said, by mutual release or by 15:21:05
3 cancellation of the contract after the contract is 15:21:10
4 terminated in 2017. 15:21:13
5 THE WITNESS: Well, I want to be 15:21:16
6 clear that we have had no discussions within the OPA 15:21:18
7 on what we are going to do with the Windstream 15:21:22
8 contract. 15:21:24
9 It is not generally our practice to do 15:21:25
10 -- we discuss these events as they come before us, 15:21:28
11 so we haven't had any discussions to date. 15:21:32
12 What I would say is -- what I was 15:21:35
13 saying is, if the -- if Windstream came to us and 15:21:37
14 said they wanted to terminate the contract, and they 15:21:41
15 wanted to -- and in exchange for a full and final 15:21:44
16 release on both sides, we would return the security, 15:21:48
17 and we have done so in every case where that has 15:21:50
18 happened to date. 15:21:53
19 If -- under the contract, if we ever 15:21:56
20 exercise 10.1(g), if we ever had a termination right 15:21:59
21 under 10.1(g) and we exercised it, by the terms of 15:22:03
22 the contract, we would be required to return the 15:22:06
23 security. 15:22:08
24 DR. CREMADES: Thank you. 15:22:09
25 THE WITNESS: Whether they do it or 15:22:09

Page 262

1 we do it, it has to be returned. 15:22:11
2 DR. CREMADES: Thank you. 15:22:13
3 PRESIDENT: Just one follow-up 15:22:14
4 question on the -- on the same subject. So if there 15:22:17
5 was a mutual release now, just to understand what 15:22:23
6 you mean by "release," that would mean that all 15:22:26
7 claims would be -- 15:22:30
8 THE WITNESS: Yes. It would be all 15:22:30
9 claims against the OPA. 15:22:32
10 PRESIDENT: Would be waived? 15:22:35
11 THE WITNESS: Would be -- yeah. They 15:22:36
12 would have to waive claims, and if we had any claims 15:22:36
13 on them, we would waive them too. It's a full and 15:22:39
14 final release, and we -- we return the security. 15:22:41
15 And that's a practice we have had in place for over 15:22:43
16 four years now. 15:22:47
17 PRESIDENT: Okay. Thank you very 15:22:48
18 much. 15:22:51
19 Do the questions from the bench call for any further 15:22:51
20 questions by counsel? 15:22:56
21 MS. SEERS: No further questions. 15:23:04
22 Thank you, Mr. President. 15:23:05
23 PRESIDENT: Thank you. 15:23:06
24 And nothing from the respondent? 15:23:06
25 Thank you very much. That concludes 15:23:08

Page 263

1 your examination Mr. -- now I need to pronounce your 15:23:09
2 name properly -- Cecchini. 15:23:14
3 THE WITNESS: Cecchini. 15:23:16
4 PRESIDENT: Thank you very much. 15:23:16
5 THE WITNESS: So but I understand I 15:23:16
6 may have to come back? 15:23:16
7 PRESIDENT: Well, that was suggested, 15:23:20
8 but... 15:23:23
9 MS. SEERS: Well, counsel will confer 15:23:25
10 and I'm sure counsel for Canada will -- will let Mr. 15:23:27
11 Cecchini know the results of those discussions. 15:23:31
12 THE WITNESS: So I'm still 15:23:33
13 sequestered is what you're saying. 15:23:34
14 PRESIDENT: So you don't need to wait 15:23:36
15 in the premises, though. 15:23:37
16 [Laughter.] 15:23:38
17 PRESIDENT: It will be on another 15:23:39
18 day. 15:23:40
19 THE WITNESS: No, it's because I'm 15:23:41
20 sequestered. So I just consider myself still 15:23:42
21 sequestered. 15:23:45
22 PRESIDENT: You are no longer 15:23:46
23 sequestered. 15:23:47
24 THE WITNESS: I'm no longer 15:23:48
25 sequestered? 15:23:48

Page 264

1 PRESIDENT: No, you are not, as long 15:23:48
2 -- because there has been no decision to call you 15:23:49
3 back, so you are no longer sequestered. 15:23:51
4 THE WITNESS: Thank you very much. 15:23:54
5 MR. TERRY: If I may just -- 15:23:56
6 apologies. I just want to make sure. From our 15:23:58
7 perspective, I'm just a little bit concerned. We're 15:24:01
8 certainly reserving the right to recall him. We 15:24:06
9 haven't made a decision yet because we have to 15:24:08
10 finish our review of the information he provided. 15:24:10
11 And I'm just concerned that -- I don't 15:24:13
12 think it is appropriate. I haven't had a chance to 15:24:15
13 discuss it with my friends, and they may in fact 15:24:18
14 agree with us. I'm concerned about just the 15:24:20
15 appropriateness, given the approach we have taken to 15:24:24
16 all of the other fact witnesses, that until their 15:24:26
17 evidence is complete, I respectfully submit that it 15:24:31
18 be appropriate to keep them sequestered. I would be 15:24:33
19 happy -- if you want, during the break we could 15:24:37
20 discuss with our friends and see if we can come up 15:24:38
21 with a solution. 15:24:41
22 PRESIDENT: That would be -- that 15:24:41
23 would be better, because as long as there is no 15:24:42
24 decision to call the witness back, he is effectively 15:24:43
25 released. So if you could confer between counsel 15:24:47

Page 266

1 --- Upon resuming at 3:38 p.m. 15:37:59
2 PRESIDENT: Okay. Thank you. We 15:38:00
3 will resume the hearing. Good afternoon, 15:38:04
4 Ms. Lawrence. 15:38:06
5 THE WITNESS: Good afternoon. 15:38:07
6 MR. TERRY: And, Mr. President, can I 15:38:09
7 just let you know that we were able to reach an 15:38:10
8 agreement with counsel, so Mr. Cecchini will remain 15:38:13
9 sequestered. 15:38:15
10 PRESIDENT: Okay. 15:38:16
11 MR. TERRY: Not -- not in perpetual 15:38:17
12 sequestration. 15:38:20
13 [Laughter.] 15:38:21
14 PRESIDENT: Thank you. Thank you 15:38:22
15 very much. The Tribunal expected nothing less. 15:38:23
16 Ms. Lawrence, can I ask you to state 15:38:25
17 your full name for the record? We will have a 15:38:33
18 transcription here and then read the statement for 15:38:37
19 fact witnesses that you should have in front of you. 15:38:40
20 THE WITNESS: Okay. My name is 15:38:43
21 Rosalyn Lawrence. I solemnly declare upon my honour 15:38:46
22 and conscience that, in my evidence before this 15:38:50
23 Tribunal, I shall speak the truth, the whole truth, 15:38:52
24 and nothing but the truth. 15:38:55
25 AFFIRMED: ROSALYN LAWRENCE 15:38:56

Page 265

1 and see what kind of arrangement can be agreed. 15:24:49
2 MR. TERRY: Yes, that would be good. 15:24:52
3 And, if in the interim, we could consider him 15:24:53
4 sequestered until that's determined. It's -- and 15:24:56
5 it's simply because this information has arisen at 15:24:59
6 such a late date, and we received it just last 15:25:02
7 night. 15:25:06
8 If necessary, we can certainly put on the record our 15:25:06
9 confirmation that we will recall him, but I don't 15:25:11
10 want to be -- I don't want to be, you know, being 15:25:14
11 silly about this, and we will try to work it out the 15:25:15
12 best we can. 15:25:18
13 PRESIDENT: Understood. Let's be 15:25:19
14 practical. If the counsel can discuss -- 15:25:20
15 DR. CREMADES: It's a clear case of 15:25:22
16 mutual release. 15:25:27
17 [Laughter.] 15:25:28
18 PRESIDENT: Okay. Thank you very 15:25:29
19 much. 15:25:30
20 And I suggest we continue the examination. Let's 15:25:30
21 just have a -- do you need five, ten minutes; five 15:25:35
22 minutes is enough -- five-minute break, and we'll 15:25:38
23 continue with the next witness. We will continue at 15:25:45
24 3:30. 15:25:50
25 -- Recess taken at 3:25 p.m. 15:25:50

Page 267

1 PRESIDENT: Thank you. You have 15:38:58
2 submitted one witness statement in this arbitration 15:38:59
3 proceeding, which -- you should also have in front 15:39:02
4 of you a statement dated November 3, 2015. That's 15:39:05
5 correct? On the signature page, that's the date? 15:39:11
6 THE WITNESS: Yes. 15:39:21
7 PRESIDENT: This is your statement? 15:39:22
8 THE WITNESS: It is. 15:39:23
9 PRESIDENT: And do you confirm the 15:39:29
10 contents of the statement? 15:39:31
11 THE WITNESS: I do. 15:39:32
12 PRESIDENT: Do you have any 15:39:33
13 corrections to make? 15:39:34
14 THE WITNESS: Not to this one. 15:39:35
15 PRESIDENT: Thank you. 15:39:36
16 MR. TERRY: Sorry, I don't want to 15:39:39
17 interrupt, but I believe there are two witness 15:39:40
18 statements -- 15:39:42
19 PRESIDENT: Sorry. 15:39:43
20 MR. TERRY: -- that the witness has. 15:39:44
21 PRESIDENT: You are absolutely 15:39:45
22 correct. 15:39:46
23 MR. TERRY: I had to prepare for 15:39:48
24 cross-examination, so... 15:39:49
25 [Laughter.] 15:39:51

Page 268

1 PRESIDENT: I had a little technical 15:39:51
2 problem with the -- with the separation. And, 15:39:53
3 indeed, there is another statement as well, which is 15:39:56
4 dated November 3, 2000 and -- my apologies. There 15:39:59
5 are two statements. First one is dated January 20, 15:40:04
6 2015, and the other one November 3 -- 15:40:11
7 THE WITNESS: November 3. 15:40:16
8 PRESIDENT: -- 2015. 15:40:17
9 THE WITNESS: That's correct. 15:40:18
10 PRESIDENT: And you confirm the 15:40:21
11 contents of both statements? 15:40:22
12 THE WITNESS: I have a correction to 15:40:23
13 make to the statement of January 20, 2015 -- 15:40:25
14 PRESIDENT: Yes. 15:40:29
15 THE WITNESS: -- where I have on page 15:40:31
16 6 misattributed a statement that I made in a 15:40:36
17 November 24, 2009 letter to Ministers -- Minister 15:40:40
18 Cansfield's letter of September 24, 2009. 15:40:46
19 PRESIDENT: Okay. 15:40:57
20 THE WITNESS: Shall I read the 15:40:59
21 statement? 15:41:01
22 PRESIDENT: Yes, please. 15:41:02
23 THE WITNESS: It is in about the 15:41:03
24 middle of the paragraph and says: 15:41:07
25 "Those Crown land applicants 15:41:09

Page 269

1 who were successful in 15:41:11
2 obtaining a FIT contract 15:41:13
3 would be given priority over 15:41:15
4 other applicants for the same 15:41:17
5 Crown land site." 15:41:19
6 PRESIDENT: And the correction should 15:41:20
7 be? 15:41:26
8 THE WITNESS: It should be deleted. 15:41:27
9 It was something I said in my November 24 letter. 15:41:29
10 PRESIDENT: Okay. Thank you very 15:41:35
11 much. There will be now a direct examination by 15:41:36
12 counsel for the Respondent, followed by 15:41:40
13 cross-examination by counsel for Claimant, possibly 15:41:43
14 additional questions by counsel for the Respondent, 15:41:48
15 and the Tribunal may ask questions at any time. 15:41:50
16 And it will be, Mr. Neufeld. 15:41:54
17 EXAMINATION-IN-CHIEF BY MR. NEUFELD: 15:42:00
18 Q. Hi, Ms. Lawrence. 15:42:00
19 A. Hi. 15:42:07
20 Q. The only question I have for you 15:42:09
21 today, as I suspect my friend will get into the 15:42:11
22 issue of the -- of Minister Cansfield's letter and 15:42:15
23 -- and Minister -- and your own letter to Mr. 15:42:19
24 Hornung, think we can leave that to -- to 15:42:21
25 cross-examination to clear up all questions around 15:42:26

Page 270

1 that. If we need to, we can come back to it and -- 15:42:27
2 with further questions from me afterwards. So I'll 15:42:30
3 -- I'll park all of that for now and just simply ask 15:42:32
4 you to give a -- give your -- a quick overview of 15:42:36
5 your background and -- and what you do in the 15:42:40
6 Ministry. 15:42:42
7 A. So my current position is as 15:42:43
8 Assistant Deputy Minister of the policy division in 15:42:46
9 what is now the Ministry of Natural Resources and 15:42:46
10 Forestry. And in that capacity, I have broad 15:42:54
11 legislative and policy oversight of all matters 15:42:59
12 relating to natural resource management and 15:43:04
13 approximately 25 statutes that the Ministry 15:43:08
14 administers. 15:43:13
15 Prior to that, I worked at the 15:43:15
16 Ministry of Energy for several years, as both a 15:43:18
17 director and an Assistant Deputy Minister, from 15:43:23
18 about 1995 to 2008, when I joined MNR. 15:43:26
19 We do policy in, in addition to Crown land 15:43:32
20 management, forestry management, lakes and rivers, 15:43:42
21 aggregate resources, endangered species, fish and 15:43:50
22 wildlife, and many, many others. 15:43:55
23 Q. Thank you very much. Over to you. 15:43:58
24 PRESIDENT: Thank you, Mr. Neufeld. 15:44:01
25 And Mr. Terry. 15:44:02

Page 271

1 CROSS-EXAMINATION BY MR. TERRY: 15:44:05
2 Q. Good afternoon, Ms. Lawrence. 15:44:15
3 A. Good afternoon. 15:44:17
4 Q. You indicated you're -- you're at 15:44:20
5 the Assistant Deputy Minister level in the Ontario 15:44:22
6 Government? 15:44:25
7 A. I did. 15:44:26
8 Q. And in some of the e-mails we 15:44:27
9 have, there are some names that come up, and I just 15:44:29
10 want to identify the role of various people on your 15:44:32
11 team. 15:44:35
12 There is Eric Boysen, who I think is 15:44:36
13 identified as director of renewable energy program. 15:44:38
14 What -- what was his role? And I guess I'm not so 15:44:41
15 interested right now, but during the relevant time 15:44:44
16 period of 2008, 2009, 2010, early 2011. 15:44:46
17 A. So he played a couple of different 15:44:53
18 roles, but I think in the context of the matter 15:44:56
19 before us, he was, yes, director of the renewable 15:44:59
20 energy program, which was the policy arm of that 15:45:03
21 particular program initiative. 15:45:08
22 In addition, he had four other 15:45:14
23 sections for which his branch was responsible for. 15:45:16
24 Q. Okay. And any sense as to how 15:45:20
25 long he's been with the Ministry? 15:45:23

Page 272

1 A. So he's recently left the 15:45:26
2 Ministry, but he was a 30-or-more-year employee -- 15:45:28
3 Q. Okay. 15:45:35
4 A. -- working in all kinds of 15:45:35
5 capacities. 15:45:37
6 Q. And Ken Cain? 15:45:39
7 A. Ken Cain, at the time, was the 15:45:41
8 manager of the renewable energy program section. 15:45:43
9 Q. And where would that place him in 15:45:49
10 relation to Mr. Boysen? 15:45:51
11 A. So he was a direct report to Mr. 15:45:52
12 Boysen, who was a direct report to me. 15:45:53
13 Q. Okay. And we also see Richard 15:46:00
14 Linley's name come up. 15:46:02
15 A. Richard Linley was, at the time, a 15:46:05
16 policy adviser in the Minister's Office. 15:46:07
17 Q. Okay. And just for the sake of 15:46:11
18 the Tribunal, correct me if I'm wrong, but you've 15:46:13
19 got the bureaucracy with officials such as you and 15:46:18
20 your team, and then you've got the Minister's Office 15:46:23
21 and Mr. -- Mr. Linley would be someone who would be 15:46:26
22 essentially regarded as a political staff working in 15:46:30
23 the Minister's Office? 15:46:32
24 A. That's correct. 15:46:34
25 Q. All right. Now you indicated your 15:46:34

Page 274

1 The Ministry is saying: 15:47:51
2 "A key element of the Green 15:47:52
3 Energy and Green Economy Act 15:47:55
4 is a new streamlined 15:47:55
5 provincial approval process 15:47:57
6 for renewable energy projects 15:47:57
7 based on the concept of a 15:48:00
8 complete submission. The 15:48:01
9 complete submission 15:48:02
10 integrates into a coordinated 15:48:03
11 process all provincial 15:48:04
12 Ministry requirements for the 15:48:05
13 review and decision-making on 15:48:07
14 proposed renewable energy 15:48:09
15 facilities. 15:48:10
16 "While this approach provides 15:48:11
17 a single process, it 15:48:13
18 addresses the legislative 15:48:15
19 requirements set out by 15:48:16
20 various ministries." 15:48:17
21 So I take it that's -- that's a key 15:48:19
22 concept from the Ministry's perspective as to how 15:48:21
23 the Green Energy Act works and is implemented? 15:48:23
24 A. That's correct. 15:48:28
25 Q. And if I can take you further, 15:48:29

Page 273

1 role in administering various statutes. I would 15:46:39
2 like to take you to the period of September 24, 15:46:43
3 2009, which has become a familiar date for the 15:46:51
4 Tribunal, and all of us when the FIT program was 15:46:53
5 launched. 15:46:57
6 And if we could start, please, if you 15:46:58
7 could turn up the book in front of you, which has 15:47:03
8 the document called: 15:47:05
9 "The Approval and Permitting 15:47:06
10 Requirements Document for 15:47:07
11 Renewable Energy Projects." 15:47:08
12 Do you see that? 15:47:09
13 A. Do you have a tab reference? 15:47:11
14 Q. Sorry, I think you've got the 15:47:15
15 index there, so if you could turn to Tab 1. 15:47:17
16 A. Oh. Yes. 15:47:19
17 Q. Thanks very much. And you 15:47:21
18 indicated your role is as an ADM with respect to 15:47:26
19 policy. Did you have a role in drafting or 15:47:29
20 overseeing the drafting of this document? 15:47:32
21 A. I oversaw the drafting of this 15:47:35
22 document. 15:47:36
23 Q. Okay. Now, I'm just going to walk 15:47:37
24 you through some pages. If you could turn to page 15:47:41
25 1, please, third paragraph under "Introduction." 15:47:44

Page 275

1 please, to page 4. And it's the first paragraph 15:48:30
2 under the heading, No. 3. 15:48:37
3 "The Approval and Permitting 15:48:40
4 Requirements Document for 15:48:41
5 Renewable Energy Projects." 15:48:42
6 The Ministry says: 15:48:46
7 "In order for the MNR to 15:48:47
8 review and make decisions on 15:48:48
9 a proposed renewable energy 15:48:49
10 project, the applicant's 15:48:51
11 required to undertake 15:48:52
12 activities, submit 15:48:53
13 information relating to 15:48:54
14 relevant permits, licences, 15:48:55
15 authorizations, and 15:48:57
16 approvals. This document 15:48:57
17 provides direction on those 15:48:59
18 activities and information 15:49:00
19 requirements for renewable 15:49:01
20 energy projects on Crown land 15:49:03
21 and where MNR permits or 15:49:05
22 approvals are required on 15:49:07
23 private land under the 15:49:08
24 various Acts administered by 15:49:08
25 MNR. This requirement -- 15:49:10

Page 276

1 this document does not apply 15:49:11
2 to projects on federal land." 15:49:12
3 So I take it there you're setting out 15:49:14
4 what this document is intended to do -- 15:49:16
5 A. That's right. 15:49:17
6 Q. -- and what you're conveying 15:49:17
7 through this document to developers who are reading 15:49:19
8 this document; correct? 15:49:24
9 A. Yes. It's intended to be a 15:49:27
10 consolidated inventory of all of the above. 15:49:31
11 Q. Okay. And there is a reference at 15:49:33
12 the bottom of the next page, page 5, to the 15:49:37
13 renewable energy facilitation office. And your 15:49:40
14 Ministry says here: 15:49:42
15 "The renewable energy 15:49:43
16 facilitation office at the 15:49:45
17 Ministry of Energy and 15:49:46
18 Infrastructure will assist 15:49:46
19 project applicants at any 15:49:48
20 stage of the approval cycle 15:49:49
21 in navigating the various 15:49:50
22 processes and requirements 15:49:52
23 associated with the 15:49:52
24 development of renewable 15:49:54
25 energy projects. 15:49:55

Page 278

1 Q. Okay. Now, if I could then turn 15:50:34
2 to page 23 of this document. And you've got a 15:50:37
3 heading. 15:50:44
4 "Requirements for Renewable 15:50:46
5 Energy Projects." And you 15:50:47
6 say: 15:50:52
7 "This section identifies 15:50:52
8 requirements for renewable 15:50:54
9 energy projects on Crown land 15:50:55
10 and where MNR permits or 15:50:57
11 approvals are required on 15:51:00
12 private land with respect to 15:51:00
13 a wind, solar, biomass, or 15:51:02
14 biogas generation project, 15:51:05
15 including associated and 15:51:07
16 ancillary infrastructure 15:51:09
17 constructed solely for the 15:51:10
18 renewable energy generation 15:51:12
19 facility." 15:51:13
20 And you say here: 15:51:14
21 "Some information 15:51:14
22 requirements are common 15:51:15
23 between the MNR and the 15:51:17
24 Ministry of the Environment. 15:51:20
25 These requirements are 15:51:20

Page 277

1 "This office will provide 15:49:55
2 information and liaison with 15:49:58
3 or connection to appropriate 15:50:00
4 staff and subject experts in 15:50:01
5 other ministries as well as 15:50:03
6 inform applicants of 15:50:04
7 potential requirements 15:50:05
8 imposed by the Government of 15:50:05
9 Canada. 15:50:07
10 "The renewable energy 15:50:07
11 facilitation office will also 15:50:10
12 develop and provide various 15:50:11
13 tools and resources for 15:50:12
14 renewable energy project 15:50:13
15 applicants. While not a 15:50:15
16 mandatory step, the 15:50:16
17 applicants are encouraged to 15:50:19
18 work with the renewable 15:50:19
19 energy facilitation office." 15:50:20
20 So, again, that statement reflects 15:50:21
21 what MNR was telling those in the industry and 15:50:22
22 others reviewing this document about the renewable 15:50:25
23 energy facilitation office and its role? 15:50:28
24 A. Yes. And reflects the role that 15:50:30
25 was envisaged for it. 15:50:32

Page 279

1 outlined in the Renewable 15:51:21
2 Energy Approval Regulation." 15:51:22
3 Were you familiar at the time with the 15:51:24
4 Renewable Energy Approval Regulation? 15:51:25
5 A. Well, I understood the regulation, 15:51:30
6 and I understood which parts of our mandate were 15:51:32
7 going to be moved over to MOE's review of same. 15:51:35
8 Q. Okay. And then you describe here 15:51:41
9 the various documents that are to be provided for 15:51:47
10 MNR's review in terms of making a submission. And 15:51:51
11 this applies for every renewable energy project; 15:51:54
12 correct? 15:51:57
13 A. The required REA, Renewable Energy 15:52:02
14 Approval, yes. 15:52:04
15 Q. And, for example, it applies to 15:52:06
16 wind projects? 15:52:09
17 A. It would. 15:52:11
18 Q. It applies to onshore wind? 15:52:12
19 A. It would. 15:52:14
20 Q. And offshore wind? 15:52:15
21 A. It did. 15:52:18
22 Q. Okay. And you list the various 15:52:19
23 reports that had to be provided here. And I'm just 15:52:24
24 going to -- I'm going to try to do this quickly, but 15:52:29
25 there is a list of nine reports here, and then the 15:52:33

Page 280

1 following pages describe what's required for each of 15:52:35
2 these reports; correct? So if we just go flipping 15:52:37
3 through the pages -- 15:52:42
4 A. Yes. 15:52:43
5 Q. -- 6.1 on page 23, there is a 15:52:43
6 consultation report that is required; correct? 15:52:45
7 A. That's correct. 15:52:48
8 Q. And in the top of page 24, 6.1.3, 15:52:50
9 consultation with aboriginal communities required; 15:52:54
10 correct? 15:52:57
11 A. Yes. 15:52:57
12 Q. Page 25, there is a project 15:52:59
13 description report that's required? 15:53:01
14 A. Yes. 15:53:03
15 Q. And above that, if needed, a 15:53:04
16 consultation with municipalities and local 15:53:05
17 authorities; correct? 15:53:08
18 A. Yes. 15:53:09
19 Q. And there is a Natural Heritage 15:53:09
20 Assessment. And what does "natural heritage" refer 15:53:12
21 to in MNR parlance? 15:53:17
22 A. It would be features on the 15:53:22
23 landscape, such as significant scientific rock 15:53:24
24 foundations or significant provincial wetlands or 15:53:31
25 woodlands or other special ecological features and 15:53:34

Page 282

1 water report; correct? 15:54:42
2 A. Yes. 15:54:44
3 Q. There is a report required for 15:54:45
4 consideration of protective properties, 15:54:46
5 archeological and heritage resources; correct? 15:54:48
6 A. That's correct. 15:54:51
7 Q. And there is a design and 15:54:52
8 operations report, and that includes a site plan; 15:54:53
9 correct? 15:54:58
10 A. Yes. 15:54:59
11 Q. Environmental effects monitoring 15:55:00
12 plan; correct? 15:55:02
13 A. Yes. 15:55:04
14 Q. Public safety plan -- that's at 15:55:05
15 the bottom of page 29 -- correct? 15:55:07
16 A. That's correct. 15:55:08
17 Q. And if you turn over to the next 15:55:10
18 page, page 30, there is a requirement for a 15:55:11
19 construction plan report? 15:55:13
20 A. Yes. 15:55:17
21 Q. And then there's a decommissioning 15:55:17
22 plan report? 15:55:19
23 A. Correct. 15:55:20
24 Q. And a Crown land interest report? 15:55:21
25 A. Yes. 15:55:24

Page 281

1 values. 15:53:43
2 Q. Okay. And under the Natural 15:53:43
3 Heritage Assessment, there is a requirement for a 15:53:45
4 records review report? 15:53:47
5 A. That's right. 15:53:49
6 Q. And also a site investigation 15:53:49
7 report? 15:53:51
8 A. That's correct. 15:53:53
9 Q. And if we turn over to the next 15:53:55
10 page, there's a requirement for an evaluation 15:53:56
11 report? 15:53:59
12 A. Yes. 15:54:04
13 Q. And an environmental impact study 15:54:05
14 report; correct? 15:54:06
15 A. Yes. 15:54:09
16 Q. And then under "Additional MNR 15:54:10
17 requirements," I take it, if applicable, there is -- 15:54:11
18 there is a requirement for reports under the 15:54:15
19 Endangered Species Act, if there are issues related 15:54:17
20 to any endangered species with respect to the 15:54:21
21 development of a wind project? 15:54:24
22 A. That's correct. Which we retained 15:54:25
23 as a separate approval process within MNR. 15:54:27
24 Q. Okay. And then if we turn over on 15:54:30
25 to page 28, as this continues, under 6.4, there is a 15:54:34

Page 283

1 Q. And all of those are reports that 15:55:25
2 would have to be provided by an applicant for a wind 15:55:30
3 project, including an offshore wind project? 15:55:35
4 A. Correct. 15:55:38
5 Q. And if we look to two pages over 15:55:39
6 -- well, one page over, page 31, there's -- it says: 15:55:43
7 "Additional location or 15:55:45
8 project-specific 15:55:47
9 requirements." 15:55:47
10 Correct? 15:55:47
11 A. That's right. 15:55:50
12 Q. And you can see there that what 15:55:52
13 you're indicating, as I understand it, is that, in 15:55:54
14 addition to all of these other requirements, in 15:55:56
15 certain circumstances you will require additional 15:55:59
16 reports or other work being done. Correct? 15:56:01
17 A. Yes. 15:56:04
18 Q. And if we turn over to page 32, we 15:56:06
19 see, under Heading 7.2, an offshore wind facility 15:56:10
20 report. 15:56:13
21 A. That's correct. 15:56:15
22 Q. And it says: 15:56:17
23 "The offshore wind facility 15:56:17
24 report requirements are 15:56:20
25 outlined in Item 12 of Table 15:56:21

Page 284

1 1 of the Renewable Energy 15:56:23
2 Approvals Regulation." 15:56:24
3 And I take it that's the regulation 15:56:25
4 you indicated you were familiar with, that, in Item 15:56:27
5 12, outlines the requirement for this offshore wind 15:56:32
6 facility report? 15:56:35
7 A. Yes. Although I can't bring the 15:56:40
8 table immediately to mind. 15:56:42
9 Q. Sure. And I can take you to that 15:56:44
10 in a moment. 15:56:45
11 And these -- it says: 15:56:49
12 "These requirements apply to 15:56:51
13 proposed renewable energy 15:56:53
14 projects on Crown land and 15:56:54
15 where MNR permits or 15:56:56
16 approvals are required on 15:56:57
17 private land. Information 15:56:58
18 submitted will be reviewed by 15:57:00
19 the MNR and will inform 15:57:02
20 decisions on approval and 15:57:03
21 permits." 15:57:05
22 So this is requiring some additional 15:57:05
23 studies in addition to the ones that were already 15:57:09
24 required under the sections I reviewed with you; 15:57:11
25 correct? 15:57:14

Page 286

1 dispositions in the lake bed, location of offshore 15:58:12
2 oil and gas licences, et cetera; right? 15:58:15
3 A. Yes. 15:58:18
4 Q. And then you have a records review 15:58:19
5 that's set out there dealing with issues such as 15:58:21
6 fish and fish habitat, fish population, where 15:58:24
7 vegetation communities, species in habitat protected 15:58:27
8 under the Endangered Species Act, wildlife species 15:58:28
9 hazard lands. All those items are covered under the 15:58:35
10 next section? 15:58:38
11 A. Yes. 15:58:38
12 Q. And then it also says: 15:58:38
13 "In support of the 15:58:39
14 compilation of baseline 15:58:40
15 information, applicants must 15:58:41
16 also undertake a coastal 15:58:42
17 engineering study which 15:58:44
18 addresses a potential effect 15:58:46
19 of the proposed project on 15:58:47
20 natural erosion and 15:58:48
21 accretion." 15:58:49
22 So that was a particular study that 15:58:50
23 would look at those factors; right? 15:58:52
24 A. That's right. 15:58:56
25 Q. Then you note in the next line 15:58:56

Page 285

1 A. That's right. 15:57:14
2 Q. And it says: 15:57:16
3 "In addition to the 15:57:17
4 requirements outlined in the 15:57:19
5 Renewable Energy Approvals 15:57:21
6 Regulation." 15:57:22
7 So there were other requirements in 15:57:23
8 the REA regulation, and this is in addition to 15:57:29
9 those; right? 15:57:31
10 A. Although I believe the initial 15:57:36
11 proposed REA regulation cross-referenced the coastal 15:57:37
12 engineering study. 15:57:42
13 Q. Right. And in addition to the 15:57:43
14 requirements outlined in the Renewable Energy 15:57:47
15 Approvals Regulations, it says here: 15:57:50
16 "The applicant of an offshore 15:57:51
17 wind facility will be 15:57:52
18 required to submit..." 15:57:53
19 And then you outline various other 15:57:54
20 studies that are required to be submitted; correct? 15:57:56
21 A. That's right. 15:57:59
22 Q. And you've got a site plan that 15:57:59
23 will deal, in the first item, with various issues 15:58:03
24 with respect to shipping channels, commercial 15:58:05
25 fisheries, submarine cables, location of 15:58:08

Page 287

1 that: 15:58:57
2 "Based on the location of 15:58:57
3 offshore wind projects and 15:58:59
4 related infrastructure, some 15:59:01
5 federal government approvals 15:59:02
6 may have to be met." 15:59:03
7 So in addition to all the studies 15:59:04
8 we've outlined here, there might, depending on the 15:59:06
9 circumstances, be a requirement for additional 15:59:10
10 federal studies as well? 15:59:12
11 A. Correct. 15:59:14
12 Q. Now, I'll turn very briefly to the 15:59:18
13 REA regulation, the Renewable Energy Regulation 15:59:24
14 which is at Tab 35. And I appreciate, Ms. Lawrence, 15:59:29
15 that this is Ministry of Environment that 15:59:42
16 administers this statute; right? 15:59:45
17 A. That's correct. 15:59:49
18 Q. And so I am taking you a little 15:59:49
19 bit out of your area, but you mentioned the overlap 15:59:51
20 between the two -- the roles played by Ministry of 15:59:54
21 Environment and Ministry of Natural Resources. 15:59:56
22 And I just -- I want to do this efficiently, but if 16:00:06
23 we turn to -- and tell me if you're -- I appreciate 16:00:08
24 you're not a lawyer, and I don't want to get into 16:00:11
25 legal interpretation here, but is it your 16:00:14

Page 288

1 understanding that this REA regulation applied not 16:00:15
2 just to onshore wind but to offshore wind? 16:00:19
3 A. It did in its initial proposal. 16:00:26
4 Q. Right. 16:00:29
5 A. My understanding is that it didn't 16:00:29
6 mention or reference offshore wind when it was first 16:00:32
7 finalized in November of 2009. 16:00:37
8 Q. All right. So maybe I'll just 16:00:40
9 take you to the provisions. If you look at -- if 16:00:41
10 you could turn over to Section 6. 16:00:45
11 Again, I appreciate that it's been a 16:00:52
12 long time, but you'll -- you'll perhaps recollect 16:00:54
13 that it was actually September of 2009, not November 16:00:57
14 2009, when the regulation was promulgated? 16:00:59
15 A. Sorry? 16:01:04
16 Q. No problem. So Section 6, it 16:01:05
17 describes wind facilities here? 16:01:11
18 A. It does. 16:01:19
19 Q. And you will see, in Section 6.2, 16:01:20
20 it refers to the fact, in this regulation, a 16:01:25
21 reference to a Class 1, 2, 3, 4, or 5. Wind 16:01:27
22 facilities are referenced to a wind facility of that 16:01:31
23 class? 16:01:33
24 A. I do. 16:01:35
25 Q. Do you see that provision? And 16:01:35

Page 289

1 then if we just turn over to the top of the next 16:01:36
2 page, you can see a description of the various 16:01:38
3 classes, and you will see Class 5 there. Do you see 16:01:41
4 where it says: 16:01:46
5 "Class 5 is a wind facility 16:01:46
6 at a location where one or 16:01:49
7 more parts of a wind turbine 16:01:52
8 is located in direct contact 16:01:55
9 with surface water other than 16:01:56
10 in a wetland." 16:01:58
11 Does that refresh your recollection 16:01:59
12 that, in fact, this REA regulation is applicable on 16:02:00
13 its terms to offshore wind turbines? 16:02:11
14 A. I didn't understand it to be, but 16:02:17
15 I do read that now. 16:02:19
16 Q. Okay. And, listen, I don't want 16:02:21
17 to take you through all of this, because we did this 16:02:24
18 with the previous witness, but if you turn to 16:02:26
19 paragraph 11 -- sorry, Section 11, you will see that 16:02:32
20 it says, "This part," and it's dealing with this -- 16:02:40
21 Part 4 of the Act, which talks about the application 16:02:42
22 process that has to be followed before a Renewable 16:02:46
23 Energy Approval is issued. It says: 16:02:48
24 "This part applies to a 16:02:50
25 person, other than a person 16:02:51

Page 290

1 to whom Part 1 applies, who 16:02:53
2 proposes to engage in a 16:02:57
3 renewable energy project in 16:02:57
4 respect of which the issue of 16:03:01
5 a Renewable Energy Approval 16:03:01
6 is required." 16:03:01
7 And then it sets out, in 12: 16:03:03
8 "In order to be eligible for 16:03:04
9 the issue of a Renewable 16:03:06
10 Energy Approval, a person who 16:03:07
11 proposes to engage in a 16:03:09
12 renewable energy project 16:03:10
13 shall..." 16:03:12
14 And it describes various application 16:03:12
15 requirements. 16:03:14
16 And, again, I appreciate you're not a 16:03:14
17 lawyer, so I don't want to go too far here. But I 16:03:17
18 guess I put to you, and refresh your memory with 16:03:20
19 respect to this, that if you look at the various 16:03:26
20 sections after this with respect to consultation 16:03:28
21 requirements and various other requirements with 16:03:31
22 respect to the provision of studies and various 16:03:37
23 other approvals that are required throughout this 16:03:41
24 part of the regulation, that it applies to renewable 16:03:44
25 energy projects, which include Class 5 renewable 16:03:50

Page 291

1 energy projects? 16:03:53
2 A. Yes. 16:03:58
3 Q. All right. And Class 5 renewable 16:03:58
4 energy projects are offshore wind projects, as we 16:03:59
5 established earlier? 16:04:05
6 A. So I don't know the answer to that 16:04:17
7 -- 16:04:19
8 Q. Okay. 16:04:19
9 A. -- because I'm not familiar with 16:04:19
10 Class 5. And I'm not a master of this particular 16:04:20
11 regulation, nor a lawyer, as you correctly point 16:04:26
12 out. 16:04:30
13 I am familiar with the policy proposal 16:04:34
14 that preceded the actual drafting, but I know that 16:04:36
15 had a specific section on offshore, which referred 16:04:43
16 to MOE undertaking further examination of potential 16:04:48
17 setbacks. It committed MNR to providing more detail 16:04:57
18 with respect to what the coastal engineering study 16:05:03
19 would do. And there was one other commitment they 16:05:06
20 made, but it was in prose, not in law. 16:05:11
21 Q. Right. And if we -- just sticking 16:05:15
22 to the law for one moment -- and, again, 16:05:17
23 appreciating you're not a lawyer, you had mentioned 16:05:19
24 before the table that deals with the offshore wind 16:05:20
25 facility report, and you will see, if we turn to the 16:05:24

Page 292

1 table section of this legislation, it's right at the 16:05:28
2 end of this section, after Section 64.2. Do you 16:05:31
3 have that section? 16:05:34
4 A. I have lost where I'm looking. I 16:05:40
5 apologize. 16:05:42
6 Q. No problem. If you flip through 16:05:43
7 to Section 64 of the legislation. See the tables 16:05:44
8 that start there? 16:05:57
9 A. I do. 16:05:58
10 Q. Okay. And you will see, if you 16:05:59
11 look through the list of various studies there, 16:06:02
12 construction plan reports, consultation reports, 16:06:07
13 decommissioning reports, design and operation, there 16:06:11
14 is a congruence between those and what the APRD 16:06:14
15 requires. Do you agree? Or certainly an overlap? 16:06:17
16 A. I wouldn't describe it as an 16:06:29
17 overlap. I would describe it as a congruence. 16:06:30
18 Q. Okay. 16:06:32
19 A. We weren't asking for separate 16:06:32
20 reports. 16:06:35
21 Q. Right. 16:06:36
22 A. The REA was the home of the 16:06:37
23 reports, but MNR was going to be playing an active 16:06:39
24 role in reviewing the complete submissions with MOE 16:06:44
25 at the time. 16:06:47

Page 294

1 requirement under the MOE system to provide this 16:08:02
2 offshore wind facility report? 16:08:05
3 A. Yes. 16:08:07
4 Q. Okay. So that was the regulatory 16:08:08
5 structure, or at least a part of it that was in 16:08:15
6 place, in September of 2009? 16:08:17
7 A. Yes. 16:08:22
8 Q. All right. Now, I would just like 16:08:22
9 to turn quickly to another regulation that was in 16:08:25
10 place at the time of the events in this case. This 16:08:28
11 is at Tab 2 of our materials. For the record, it's 16:08:32
12 C-59. 16:08:41
13 Do you recognize this document? This is -- this is 16:08:41
14 the -- this is the site -- wind power site release 16:08:45
15 and development review document. 16:08:52
16 A. Yes. 16:08:54
17 Q. All right. 16:08:55
18 A. A procedure, not a regulation, 16:08:56
19 but... 16:08:58
20 Q. Yes, procedure. And I understand 16:08:59
21 this -- this says, "Date issued: January 28, 2008." 16:09:02
22 And I assume we can take that as being the date in 16:09:07
23 which this policy was issued? 16:09:09
24 A. That's correct. 16:09:11
25 Q. Is that right? And as I 16:09:11

Page 293

1 Q. So essentially, and just sticking 16:06:48
2 to the policy perspective, what would happen then 16:06:50
3 under the Renewable Energy Approval is all wind 16:06:53
4 promises, including offshore projects, would come 16:06:58
5 forward, and as part of their approval, they would 16:07:00
6 have to go out and do all these various studies and 16:07:01
7 provide these reports to both ministries, Ministry 16:07:06
8 of Environment and Ministry of Natural Resources. 16:07:11
9 Perhaps Ministry of Environment was playing the lead 16:07:14
10 role in the process, but Ministry of Natural 16:07:17
11 Resources would also be reviewing these; correct? 16:07:19
12 A. That's correct. And supporting 16:07:21
13 MOE in its review. 16:07:23
14 Q. Right. And then, just like on the 16:07:24
15 APRD side, the MNR document we looked at earlier, 16:07:26
16 there was a requirement for a separate offshore wind 16:07:31
17 facility report that was effectively provided to 16:07:34
18 both MNR and MOE, and you can see that if you look 16:07:38
19 at tab -- paragraph 12 in this table. If you flip 16:07:42
20 maybe another page or so, you come to paragraph 12, 16:07:45
21 which talks about an offshore wind facility report. 16:07:54
22 Do you see that? 16:07:57
23 A. I do. 16:07:57
24 Q. Okay. And you can see there that, 16:07:58
25 just like in the MNR document, there is a 16:08:00

Page 295

1 understand it, this is a policy that sets out the 16:09:13
2 basis on which developers, for example, like an 16:09:19
3 offshore wind developer, can commence the process 16:09:22
4 for -- that you had called the site release process 16:09:27
5 to take the steps to gain the rights to carry out 16:09:34
6 testing on land and, if that were worked out, to 16:09:40
7 actually achieve Crown land tenure to be able to 16:09:43
8 develop a project. Is that fair? 16:09:47
9 A. That was the procedure under which 16:09:48
10 interested proponents have opportunity to apply 16:09:51
11 through a window of opportunity offered by the 16:09:56
12 Ministry that began February 2008. 16:10:00
13 Q. Right. And this was one of -- I 16:10:04
14 understand there had been several windows of 16:10:06
15 opportunity and the idea is that Ministry of Natural 16:10:08
16 Resources would open these up for a specified period 16:10:11
17 of time and then close them. 16:10:13
18 A. There had been two prior, I 16:10:15
19 believe, in 2004 and 2005. 16:10:17
20 Q. And you would apply for particular 16:10:21
21 parcels of land called "grid cells." That was the 16:10:24
22 description of the location? 16:10:26
23 A. That was the description. 16:10:27
24 Q. And it was -- it was, to some 16:10:29
25 extent at least, a circumstance where an applicant 16:10:33

Page 296

1 wanted to be the first one to apply for those grid 16:10:37
2 cells. And that's why when you open up the window, 16:10:39
3 you would get people applying quickly to try to 16:10:41
4 obtain rights to those grid cells? 16:10:45
5 A. That's correct. 16:10:46
6 Q. All right. And if I understand 16:10:47
7 your process, if I can turn to the third page of 16:10:49
8 this document, it talks about, at 2.1.2, an 16:10:53
9 application receiving process. 16:10:57
10 And it says the BPO, and I understand 16:11:01
11 that was someone called the business process officer 16:11:05
12 who would receive these applications? 16:11:08
13 A. That's right. 16:11:10
14 Q. And if I look down: 16:11:10
15 "The BPO will --" 16:11:12
16 And it says (e) there: 16:11:13
17 "Process the non-refundable 16:11:14
18 application fee within 30 16:11:16
19 days of receiving the 16:11:18
20 application." 16:11:19
21 Is that how the process worked? 16:11:19
22 A. It was. 16:11:24
23 Q. Okay. And then if we turn over to 16:11:24
24 the next page, what would happen after that, 2.1.3, 16:11:26
25 is that, under the heading "MNR District Review and 16:11:31

Page 298

1 60 days after the district 16:12:19
2 receives the particular 16:12:21
3 application, they're supposed 16:12:22
4 to schedule a pre-screening 16:12:23
5 meeting. 16:12:25
6 A. That was the targeted timeline. 16:12:26
7 Q. Okay. And the prescreening 16:12:28
8 meeting, as I understand it, was a meeting at which 16:12:30
9 the proponent would sit down with MNR and discuss 16:12:33
10 various issues with respect to their -- their grid 16:12:37
11 cell application? And that would -- that commenced 16:12:41
12 the process that would then, I guess from the 16:12:44
13 developer's perspective, they would hope would lead 16:12:47
14 to, you know, access to testing and then to be able 16:12:50
15 to develop the project. 16:12:54
16 A. It's the process whereby MNR sits 16:12:57
17 down -- or the district staff of MNR sit down with 16:13:01
18 the project proponent and share what they have 16:13:05
19 developed in the site description package or site 16:13:10
20 information package, which is based on 16:13:14
21 best-available knowledge of what they know locally 16:13:18
22 about the particular location and geography, and 16:13:24
23 learn more about the proponent and the actual 16:13:27
24 project. 16:13:31
25 Q. And then what happens next after 16:13:33

Page 297

1 Site Description Preparation," there was a process 16:11:33
2 there that: 16:11:37
3 "Upon receiving the 16:11:38
4 date-stamped wind power 16:11:39
5 application for Crown land, 16:11:40
6 form and grid cell maps from 16:11:42
7 the BPO district staff with 16:11:44
8 input from lake managers, 16:11:46
9 where applicable, will --" 16:11:47
10 And I just -- I don't want to go 16:11:49
11 through all the provisions there, but, again, to go 16:11:52
12 down to (e), because I'm interested in the timing, 16:11:54
13 it says: 16:11:56
14 "Contact the applicant to 16:11:57
15 schedule a prescreening 16:11:57
16 meeting 60 days after receipt 16:11:59
17 of the application at the 16:12:01
18 district." 16:12:02
19 A. It does say that. 16:12:03
20 Q. Okay. So the process was 30 days, 16:12:04
21 MNR gets back to you to say. 16:12:09
22 "We've processed your fee." 16:12:11
23 It's then sent to the 16:12:13
24 district office, and then 16:12:16
25 there is an idea that, within 16:12:18

Page 299

1 that meeting? 16:13:34
2 A. I believe, during that process, or 16:13:38
3 at the culmination of that conversation, the wind 16:13:46
4 power applicants are given a particular form and 16:13:49
5 given a certain period of time to go away and signal 16:13:52
6 if they want to proceed. 16:13:56
7 Q. Okay. And you mentioned earlier 16:13:58
8 on that a window opened in February of 2008, and I 16:14:05
9 would like to take you to a document at Tab 36, 16:14:09
10 which is Exhibit C-0057. 16:14:14
11 And I appreciate, Ms. Lawrence, that you weren't at 16:14:17
12 MNR at the time this deferral was listed, but you 16:14:26
13 have said in your witness statement you have 16:14:28
14 informed yourself with respect to those issues, so I 16:14:30
15 would like to ask you about this. 16:14:33
16 This is a -- you'll see it's a MNR 16:14:34
17 house note. I take it this is a note that would be 16:14:37
18 prepared by MNR so that the Minister, who is Ms. 16:14:40
19 Cansfield at the time, could answer questions in the 16:14:43
20 House. 16:14:45
21 A. That's correct. 16:14:45
22 Q. All right. And I just want to 16:14:45
23 walk you through this a little bit. This note says: 16:14:49
24 "Our government's committed 16:14:54
25 to developing clean renewable 16:14:55

Page 300

1 sources of energy so our 16:14:57
2 Ontario will have a 16:14:59
3 sustainable supply of power 16:15:01
4 now and in the future." 16:15:03
5 And then it says: 16:15:03
6 "We are consequently lifting 16:15:03
7 the deferral on existing 16:15:05
8 proposals for offshore wind 16:15:07
9 power projects and will be 16:15:07
10 accepting new onshore and 16:15:10
11 offshore applications." 16:15:12
12 And I understand that there had been a 16:15:13
13 deferral for perhaps a year and a half to two years 16:15:15
14 -- 16:15:18
15 A. About that. 16:15:18
16 Q. -- since 2006; right? And the 16:15:19
17 third bullet says: 16:15:22
18 "I understand there were a 16:15:24
19 number of concerns about the 16:15:25
20 potential impact of wind 16:15:27
21 power projects on the 16:15:27
22 environment, and we've taken 16:15:29
23 steps to address these 16:15:30
24 concerns." 16:15:31
25 That, I understand, was the position 16:15:31

Page 302

1 role in reducing the impact 16:16:20
2 of climate change and 16:16:22
3 supports our government's 16:16:23
4 goal of doubling Ontario's 16:16:25
5 renewable energy supply by 16:16:26
6 2025." [As read] 16:16:29
7 Now -- sorry, go ahead. I didn't want 16:16:29
8 to interrupt you. 16:16:31
9 A. Acknowledgement. 16:16:31
10 Q. All right. And now if I could 16:16:33
11 just -- there's a -- there's a backgrounder attached 16:16:35
12 to this, and I just want to take you to a couple of 16:16:38
13 the notes here. 16:16:41
14 The fourth bullet down under 16:16:42
15 background, it says: 16:16:44
16 "According to the Ontario 16:16:45
17 Wind Resource Atlas, the best 16:16:47
18 potential for wind power 16:16:49
19 development is in the areas 16:16:49
20 near onshore and near 16:16:52
21 offshore of the Great Lakes. 16:16:53
22 Lake Erie, in particular, 16:16:54
23 demonstrates very high wind 16:16:55
24 resources." [As read] 16:16:59
25 And I take it that would be a 16:16:59

Page 301

1 of the Ministry of Natural Resources? 16:15:35
2 A. Certainly the position of the -- 16:15:40
3 of the Minister, but, yes, reflects what I know of 16:15:42
4 the process and what the advice was at the time. 16:15:45
5 Q. Right. And it would -- that would 16:15:50
6 be the position of the Ministry of Natural 16:15:50
7 Resources? 16:15:53
8 A. That's correct. 16:15:53
9 Q. And then it indicates -- it says, 16:15:54
10 "If pressed," it has some additional information to 16:15:56
11 provide about some of the work that was done. 16:15:58
12 And then -- and then on the bullet 16:16:01
13 after that, it says: 16:16:04
14 "Based on this work, we 16:16:05
15 believe the existing 16:16:06
16 environmental assessment 16:16:07
17 processes are sufficient to 16:16:09
18 address site specific issues 16:16:09
19 and concerns related to 16:16:11
20 offshore wind." 16:16:12
21 Again, that was the position of the 16:16:13
22 Ministry of Natural Resources. 16:16:15
23 A. That's correct. 16:16:16
24 Q. And it says, of course: 16:16:17
25 "Wind power plays crucial 16:16:18

Page 303

1 reflection of what the Ministry's officials were 16:17:03
2 providing as background information at this time to 16:17:09
3 the Minister? 16:17:11
4 A. Yes. 16:17:12
5 Q. All right. And then it says -- it 16:17:13
6 explains in the -- when you get down to the place 16:17:17
7 where the bullets move a little bit to the left on 16:17:22
8 the page, it says: 16:17:24
9 "In the fall of 2006, in 16:17:24
10 explaining the deferral, 16:17:27
11 there were concerns related 16:17:29
12 to MNR about a specific 16:17:30
13 project near Leamington --" 16:17:31
14 [As read] 16:17:31
15 And Leamington is in southwestern 16:17:31
16 Ontario. Is that correct? 16:17:35
17 A. Yes, it is. 16:17:37
18 Q. All right. 16:17:38
19 "-- that had broader 16:17:38
20 implications for all offshore 16:17:41
21 wind development. As a 16:17:42
22 result, on October 3, 2006 16:17:43
23 the former Minister of 16:17:45
24 Natural Resources directed 16:17:45
25 staff to place a deferral on 16:17:47

Page 304

1 all existing applications 16:17:49
2 until further research was 16:17:50
3 conducted." [As read] 16:17:52
4 So that's stating the fact as to what 16:17:52
5 occurred and why the deferral was put into place; 16:17:54
6 right? 16:17:56
7 A. Yes. 16:17:57
8 Q. And then it says another fact 16:17:57
9 here: 16:17:58
10 "MNR has 14 existing 16:17:58
11 applications for offshore 16:18:01
12 wind development from seven 16:18:02
13 proponents. These 16:18:04
14 applications cover eight 16:18:06
15 sites, four on Lake Ontario 16:18:08
16 and four on Lake Erie." [As 16:18:10
17 read] 16:18:11
18 It talks about one previous 16:18:12
19 application being withdrawn. 16:18:13
20 And it says: 16:18:14
21 "Applicant of Record status 16:18:15
22 has been awarded for 9 of 14 16:18:16
23 applications, enabling those 16:18:19
24 applicants to proceed with 16:18:20
25 testing and/or assessment now 16:18:21

Page 306

1 A. That's correct. 16:19:26
2 Q. Right. And -- and, also, it gives 16:19:27
3 you the ability to go through the environmental 16:19:29
4 processes, and here you describe the Environmental 16:19:32
5 Assessment process. 16:19:34
6 A. That's right. 16:19:37
7 Q. And -- and you -- you indicate 16:19:37
8 here that the offshore wind power deferral is being 16:19:42
9 lifted, and the window will open for new 16:19:46
10 applications as of February 15, 2008. So that was 16:19:49
11 referring to the new window that was going to open? 16:19:51
12 A. That's right. 16:19:54
13 Q. Now, in the case of Windstream, if 16:20:00
14 I could turn you back to the front of the book, Tab 16:20:12
15 3. So Windstream -- it's agreed between the parties 16:20:22
16 here -- applied in -- pretty much as soon as the 16:20:28
17 window opened in -- in February 2008 for grid cells. 16:20:32
18 Is that your understanding? 16:20:36
19 A. That is my understanding. 16:20:37
20 Q. And then we see -- so they apply 16:20:39
21 in February. We see a letter in May 2008, saying: 16:20:41
22 "This will acknowledge 16:20:45
23 receipt. MNR's currently 16:20:47
24 reviewing your applications 16:20:49
25 and will be following up with 16:20:50

Page 305

1 that the deferral is lifted." 16:18:23
2 [As read] 16:18:24
3 Could you explain what "Applicant of 16:18:24
4 Record status" is? 16:18:27
5 A. It is a paper that is issued in 16:18:31
6 the context of our site release policy that enables 16:18:38
7 the proponent -- or, at this particular time, 16:18:42
8 enabled the proponent to proceed to the 16:18:48
9 Environmental Assessment process. 16:18:55
10 Q. All right. And it says here that: 16:18:56
11 "Applicant of Record status 16:18:57
12 has been awarded for 9 of 14 16:19:00
13 applications, enabling those 16:19:02
14 applicants to proceed with 16:19:04
15 testing and/or Environmental 16:19:05
16 Assessment." [As read] 16:19:06
17 So I take it there appears, as I 16:19:07
18 understand it, to be a couple of steps that, first 16:19:08
19 of all, AOR status -- I'll use the short form -- 16:19:10
20 gives you the ability to carry out various tests, 16:19:13
21 because, for example, if you're developing an 16:19:16
22 offshore wind project, you want to be able to go and 16:19:18
23 put up met masts and various other things to carry 16:19:20
24 out tests. You want to check the lake bottom, et 16:19:23
25 cetera; right. 16:19:25

Page 307

1 a letter to advise you of the 16:20:51
2 status of your applications. 16:20:53
3 Due to large volume of 16:20:54
4 applications that we 16:20:56
5 received, at the opening of 16:20:56
6 the latest wind power window, 16:20:58
7 the review process is taking 16:21:00
8 longer than the scheduled 30 16:21:02
9 days from date of 16:21:03
10 submission." [As read] 16:21:04
11 So I understand there was a -- a bit 16:21:04
12 of a backlog. It seems there was some delay on 16:21:05
13 MNR's part in processing these site release -- 16:21:08
14 A. Yes. My understanding is we 16:21:10
15 received more than 500 applications. 16:21:13
16 Q. Okay. And that circumstance 16:21:18
17 continues for some time until we get to the period 16:21:25
18 that we were at before where we get the Renewable 16:21:30
19 Energy Approval requirements coming in or provisions 16:21:32
20 coming in September of 2009. 16:21:38
21 And then there is this letter, which 16:21:41
22 the Tribunal has seen a number of times now, which 16:21:43
23 is at Tab 5 of the materials. 16:21:47
24 A. Yes. 16:21:56
25 Q. And in this letter, the Minister 16:21:58

Page 308

1 -- and I want to focus on the sixth paragraph down. 16:22:01
2 Minister Cansfield, she says: 16:22:11
3 "In order to maintain 16:22:12
4 priority position with MNR 16:22:13
5 site release process, you 16:22:15
6 must submit an application to 16:22:16
7 the FIT program within the 16:22:18
8 FIT program launch period." 16:22:19
9 [As read] 16:22:21
10 And then it says: 16:22:21
11 "Following the outcome of the 16:22:23
12 Ontario Power Authority's FIT 16:22:25
13 launch application process, 16:22:26
14 the status of all Crown land 16:22:27
15 applications will be reviewed 16:22:30
16 and applicants will be 16:22:30
17 contacted regarding the 16:22:32
18 status of each of their 16:22:33
19 applications." [As read] 16:22:34
20 So this was MNR. You mentioned before 16:22:34
21 ministries working together. This is MNR aligning 16:22:38
22 its processes with the FIT process, which was being 16:22:40
23 administered by Ministry of Energy and the OPA; 16:22:43
24 right? 16:22:47
25 A. That's right. 16:22:48

Page 310

1 where two applicants were -- had put in applications 16:24:08
2 for the same site and one applicant applied for the 16:24:14
3 FIT program and the other applicant didn't, then you 16:24:17
4 would be giving priority to the applicant that was 16:24:19
5 -- that was awarded the FIT contract; correct? 16:24:24
6 A. Correct. 16:24:26
7 Q. Right. And if we turn to the next 16:24:27
8 document at Tab 6, we see a discussion here, which I 16:24:33
9 think is very consistent with what you were just 16:24:45
10 telling me. 16:24:48
11 So this is Mr. Linley -- feel free if 16:24:49
12 you want to take a drink of water. I don't want 16:24:52
13 to... 16:24:55
14 A. Sorry, wrong tab. 16:24:56
15 Q. Tab 6, there is an e-mail. And 16:24:58
16 you will see this is -- this is -- this is a time at 16:25:02
17 which, and just to remind you of the time frame 16:25:06
18 here, Windstream receives its FIT contract offer in 16:25:08
19 early April of 2010. 16:25:14
20 A. Correct. 16:25:19
21 Q. And you'll see, if you look down 16:25:19
22 at the bottom of the chain, you've got Ministry of 16:25:21
23 Environment officials wondering how does this work. 16:25:25
24 If -- if Wolfe Island Shoals hasn't come through the 16:25:33
25 site release process, how are they getting a FIT 16:25:35

Page 309

1 Q. And, effectively, if you wanted to 16:22:49
2 maintain your priority position within the site 16:22:53
3 release process, you had to submit an application to 16:22:55
4 the FIT program; correct? 16:22:58
5 A. Correct. 16:22:59
6 Q. And, presumably, if you didn't do 16:23:00
7 that -- you mentioned before that, if you have 16:23:02
8 competing applications on grid cells, if there was 16:23:05
9 someone behind you on the queue and you didn't apply 16:23:09
10 for FIT -- into the FIT program, you'd would lose 16:23:11
11 your priority in the queue, and someone else may 16:23:15
12 come in and have the priority application with 16:23:19
13 respect to those cells; correct? 16:23:21
14 A. No. We were -- this was aligning 16:23:24
15 our site release process and 500 applications for 16:23:26
16 Applicant of Record with FIT program priorities to 16:23:30
17 try and focus in on shovel-ready projects, I believe 16:23:35
18 we were calling them at the time. 16:23:41
19 So this is about you will have 16:23:44
20 priority vis-à-vis other applicants in terms of the 16:23:47
21 order in which we're going to process these, and 16:23:54
22 we're going to expedite FIT contracts first as best 16:23:59
23 we can. 16:24:05
24 Q. Okay. In addition to that 16:24:06
25 priority, if, for example, you had a circumstance 16:24:07

Page 311

1 contract offer? Right? Do you see that? That's 16:25:37
2 effectively the question that's being asked here. 16:25:41
3 A. Yes. 16:25:47
4 Q. You'll see at -- at the -- for 16:25:47
5 example, if you turn to the second page here, where 16:25:53
6 the e-mail chain starts, and you can see that, for 16:25:55
7 the 2008 applications, it includes Wolfe Island: 16:26:00
8 "Due to the high number of 16:26:04
9 site release applications 16:26:05
10 received, MNR, in 16:26:06
11 consultation with MEI, 16:26:08
12 Ministry of Energy, changed 16:26:10
13 the approach and said the 16:26:11
14 site release review will be 16:26:13
15 initiated for those projects 16:26:14
16 after they receive a FIT 16:26:15
17 contract." [As read] 16:26:17
18 A. Correct. 16:26:17
19 Q. And then you've got -- going up 16:26:22
20 the e-mail chain here, you've got someone at 16:26:24
21 Ministry of Environment copying Mr. Linley -- you 16:26:28
22 explained his role at MNR -- saying: 16:26:31
23 "Is this your understanding? 16:26:34
24 They don't need Applicant of 16:26:36
25 Record status before they get 16:26:36

Page 312

1 a FIT? Shouldn't this be a 16:26:39
2 requirement before 16:26:41
3 determining that they are 16:26:42
4 worthy of a FIT contract?"[As 16:26:44
5 read] 16:26:45
6 Do you see that statement? 16:26:45
7 A. I do. 16:26:46
8 Q. And then -- then you see the 16:26:46
9 answer from Mr. Linley: 16:26:47
10 "This is true." 16:26:49
11 He says: 16:26:49
12 "They don't need Applicant of 16:26:51
13 Record status before they get 16:26:53
14 a FIT." [As read] 16:26:54
15 He says: 16:26:54
16 "The rationale was to weed 16:26:55
17 out speculators among the 16:26:56
18 pool of applicants. Remember 16:26:58
19 MNR received over 400 site 16:26:59
20 release applications for wind 16:27:01
21 and over 100 for water. One 16:27:02
22 company submitted over 100 16:27:04
23 applications alone." [As 16:27:06
24 read] 16:27:06
25 So would that be consistent with your 16:27:07

Page 314

1 Q. Right. And -- and shovel-ready 16:28:14
2 projects would presumably be those that -- that got 16:28:16
3 FIT applications versus those that didn't get FIT 16:28:20
4 applications? 16:28:23
5 A. That's correct. 16:28:23
6 Q. And we can see this reflected also 16:28:24
7 in the next paragraph where it says: 16:28:25
8 "MNR worked with the OPA to 16:28:27
9 identify priority Crown land 16:28:28
10 projects." [As read] 16:28:30
11 This is Mr. Linley speaking: 16:28:30
12 "Those determined most 16:28:31
13 economically and technically 16:28:34
14 viable by OPA, i.e., 16:28:35
15 shovel-ready, and where or 16:28:37
16 what areas of the province, 16:28:38
17 this process was also used to 16:28:40
18 help MNR to determine 16:28:41
19 workload priorities." [As 16:28:42
20 read] 16:28:43
21 And, again, do you agree with what Mr. 16:28:43
22 Linley is saying here to -- to his colleagues at 16:28:45
23 Environment and Energy. 16:28:49
24 A. I don't quite understand what Mr. 16:28:51
25 Linley is saying to his colleagues. The economic 16:28:57

Page 313

1 view as to what the rationale was? 16:27:09
2 A. Yes. 16:27:12
3 Q. And then in the second paragraph: 16:27:14
4 "So last year MNR negotiated 16:27:16
5 with OPA to allow all 16:27:18
6 existing Crown land 16:27:20
7 applications to apply for a 16:27:21
8 FIT program, the idea being 16:27:22
9 that MNR would determine 16:27:24
10 priority Crown land projects 16:27:25
11 based on which Crown land 16:27:28
12 applicants secured accepted 16:27:29
13 FIT applications from OPA." 16:27:31
14 [As read] 16:27:32
15 Again, is that consistent with your 16:27:32
16 understanding? 16:27:35
17 A. Sorry, just let me read that for a 16:27:36
18 moment. 16:27:38
19 Q. Sure. 16:27:39
20 A. So I'm not aware of any 16:27:56
21 negotiation that went on with the OPA, but I know 16:27:57
22 that, certainly, internally we had talked about the 16:28:01
23 focus being on shovel-ready projects to facilitate 16:28:04
24 the implementation of the Green Energy Act and the 16:28:09
25 FIT program itself. 16:28:13

Page 315

1 and technical viability was something, in our 16:29:05
2 various policy discussions around changing site 16:29:10
3 release to line up with Green Energy Act, was 16:29:14
4 something, I think, we appropriately ceded to the 16:29:17
5 OPA. It used to be our district offices making that 16:29:20
6 determination. 16:29:24
7 Q. Right. But you would agree with 16:29:25
8 me, as you said before, that -- and this really 16:29:27
9 talks about alignment of policies among the 16:29:31
10 ministries, is that -- that you and MNR were -- were 16:29:35
11 working to support those projects that were deemed 16:29:40
12 -- and I'm not saying you would deem them to be 16:29:43
13 shovel-ready, but the projects that -- that other 16:29:45
14 ministries or entities had determined to be 16:29:48
15 shovel-ready and ready to get the FIT contract. 16:29:50
16 A. We did not have a view of what 16:29:55
17 priority Crown land projects were in terms of the 16:29:57
18 mass it had received, but the ones we thought that 16:30:05
19 got contracts from the OPA had undergone due 16:30:08
20 diligence by the OPA. And we would align ourselves 16:30:11
21 behind them, so the Crown land freed up to 16:30:15
22 accommodate specific energy projects. 16:30:20
23 PRESIDENT: Mr. Terry, we should have 16:30:24
24 our afternoon break soon, but before we break, can 16:30:25
25 you give us a sense of how long you would still 16:30:30

Page 316

1 need? 16:30:32
2 MR. TERRY: Maybe you can give me a 16:30:33
3 sense, or the reporter could, as to how long I have 16:30:36
4 taken, and that might actually help me. I'm 16:30:40
5 thinking I could finish off this section in -- in a 16:30:42
6 couple of minutes, and then perhaps we could take a 16:30:44
7 break, and I could assess how much more time is 16:30:47
8 required. 16:30:49
9 PRESIDENT: Okay. Because I'm asking 16:30:49
10 because we still have one witness to go this 16:30:50
11 afternoon. 16:30:53
12 MR. TERRY: Yes. 16:30:53
13 PRESIDENT: And I understand the plan 16:30:54
14 is still to -- to also have Mr. Wilkinson today? 16:30:55
15 MR. TERRY: Yes, I understand that's 16:30:59
16 the plan. 16:31:00
17 PRESIDENT: Okay. So let us know 16:31:00
18 when is a convenient time, and we'll break for 10, 16:31:01
19 15 minutes. 16:31:03
20 MR. TERRY: Okay. 16:31:04
21 BY MR. TERRY: 16:31:05
22 Q. And if we turn to the next tab at 16:31:05
23 tab -- just to -- just to -- just to pause actually 16:31:09
24 for a moment in terms of what you were saying about 16:31:18
25 supporting projects with FIT contracts, as I 16:31:21

Page 318

1 site supplied for." [As read] 16:32:40
2 Again, that's consistent with what you 16:32:42
3 already told me; correct? 16:32:43
4 A. Correct. 16:32:44
5 Q. And you say: 16:32:45
6 "This means that these 16:32:45
7 applications will take 16:32:46
8 precedence over all others 16:32:47
9 for this site." [As read] 16:32:48
10 And, again, that is consistent with 16:32:49
11 what you told me, that they would take precedence 16:32:50
12 over others for the competing site; right? 16:32:51
13 A. That's correct. 16:32:55
14 Q. And then it says: 16:32:56
15 "In addition, they will 16:32:56
16 receive priority attention 16:32:58
17 from MNR." [As read] 16:32:59
18 Correct? 16:32:59
19 A. It does. 16:33:00
20 Q. Right. And then if we turn just 16:33:02
21 quickly over to the second page, going down to the 16:33:05
22 third-from-last paragraphs, we see that you're 16:33:13
23 making statements here again, this shovel-ready 16:33:17
24 idea; that you are indicating that you are going to 16:33:20
25 move matters along quickly with respect to certain 16:33:22

Page 317

1 understand the -- basic premise of what we're 16:31:31
2 talking about here in terms of the MNR program is 16:31:33
3 that the basis was that the applicant would secure a 16:31:34
4 FIT contract first; correct? 16:31:38
5 A. That's right. 16:31:42
6 Q. And then once that was done, the 16:31:43
7 MNR would work with the successful applicants and 16:31:45
8 prioritize the applications to move forward through 16:31:48
9 the Crown land process to develop the project? 16:31:52
10 A. That's right. 16:31:55
11 Q. All right. And just briefly to 16:31:56
12 take you to the document at page -- sorry, at Tab 7. 16:32:02
13 This is the November 24, 2009 letter that you 16:32:07
14 mentioned. Now, this is a letter that you're 16:32:12
15 sending to the head of CanWEA, which is the wind 16:32:14
16 industry organization -- association; correct? 16:32:19
17 A. That's right. 16:32:23
18 Q. And what I want to focus on is the 16:32:25
19 paragraph -- the first bullet that says: 16:32:29
20 "Existing Crown land 16:32:32
21 applicants who apply to FIT 16:32:34
22 during the launch period and 16:32:35
23 who are awarded contracts by 16:32:36
24 the OPA will be given highest 16:32:37
25 priority to the Crown land 16:32:39

Page 319

1 timelines to ensure that the shovel-ready projects 16:33:26
2 are able to make progress; correct? 16:33:30
3 A. Yes. And I think that refers to 16:33:39
4 how we are going to propose to change our site 16:33:40
5 release process, which came out the following month. 16:33:45
6 Q. Right. And just -- I'll turn very 16:33:48
7 quickly to that document, which is the next 16:33:50
8 document, Tab 8. And this is the site release 16:33:52
9 process, and if you could turn to -- it's called a. 16:33:57
10 "Site Release Policy Review." This is December 16:33:59
11 2009. If you could turn to page 3 of that. 16:34:02
12 There are two phases to the site release policy; 16:34:05
13 right? There's Phase 1 and Phase 2? 16:34:09
14 A. Yes. 16:34:14
15 Q. And the idea of Phase 1 as set out 16:34:15
16 third paragraph from the bottom of page 3, is it's 16:34:18
17 going to focus primarily on procedural elements, 16:34:22
18 including ensuring clarity between site release and 16:34:25
19 other provincial approval processes. 16:34:27
20 Then if we go down to the last 16:34:30
21 paragraph: 16:34:32
22 "The phased approach enables 16:34:32
23 the government to address 16:34:34
24 both the current renewal 16:34:36
25 energy applicants who are 16:34:37

Page 320

1 working through the site 16:34:38
2 review process --"[As read] 16:34:38
3 And that would include Windstream; 16:34:39
4 correct? 16:34:41
5 A. It would. 16:34:41
6 Q. (Reading) 16:34:42
7 "-- and are transitioning to 16:34:42
8 the new Feed-In Tariff for 16:34:45
9 procurement and then to 16:34:46
10 provide adequate time during 16:34:49
11 Phase 2 for discussion on key 16:34:50
12 policy elements and methods 16:34:53
13 for making Crown land 16:34:54
14 available in the future." [As 16:34:55
15 read] 16:34:56
16 So the basic idea, as I understand it, 16:34:56
17 of this Phase 1 was to, for those who were already 16:34:58
18 applicants, was to streamline the process or make it 16:35:02
19 consistent with the Green Energy Act and FIT 16:35:06
20 contract process; correct? 16:35:08
21 A. Yes. So to that extent, we 16:35:11
22 removed things like the requirement for a wind site 16:35:13
23 strategy, because that was going to be in the 16:35:18
24 bailiwick of the Renewable Energy Approvals 16:35:20
25 Regulation. 16:35:25

Page 322

1 purposes, will you be able to estimate how much time 16:53:04
2 you will still need? 16:53:07
3 MR. TERRY: I think I'm going to be 16:53:09
4 at least a half an hour and perhaps more. It sort 16:53:10
5 of depends how quickly we can go through the 16:53:14
6 documents. 16:53:16
7 The -- and I understand that 16:53:17
8 Mr. Wilkinson is only available for today, so we'll 16:53:19
9 need to proceed with him. I don't plan to be as 16:53:24
10 long with Mr. Wilkinson as with this witness. 16:53:29
11 PRESIDENT: Okay. Okay. Let's go 16:53:31
12 on, then. 16:53:33
13 BY MR. TERRY: 16:53:34
14 Q. Right. Okay. If you could -- and 16:53:34
15 I will try to move fairly quickly through these 16:53:40
16 documents with you. At Tab 9, this is the document 16:53:43
17 where MNR actually is writing and taking the next 16:53:49
18 step of forwarding the site release application to 16:53:54
19 the district office; correct? 16:54:00
20 A. Yes. Yes. 16:54:02
21 Q. And this is consistent with what 16:54:07
22 you're saying about giving priority to the 16:54:08
23 Windstream application now that they had the FIT 16:54:10
24 contract. 16:54:13
25 A. Yes. I think -- we didn't know at 16:54:15

Page 321

1 We added things for administrative and 16:35:26
2 procedural clarity. I believe we added something 16:35:30
3 about the non-transferability of Applicant of 16:35:34
4 Record. We clarified the, previously permissive but 16:35:36
5 misunderstood, reconfiguration of grid cells. We 16:35:45
6 made it clear that we weren't accepting any requests 16:35:52
7 for new grid cells to an application, and we would 16:35:56
8 accept them only to the extent that the footprint of 16:35:59
9 the project became smaller. It also moved 16:36:03
10 references to Environmental Assessment Approvals, to 16:36:09
11 be replaced with Renewable Energy Approvals. So the 16:36:16
12 framework looked the same. 16:36:19
13 Q. Right. All that. And you can see 16:36:21
14 that at page 4 where you outline there that you're 16:36:22
15 trying to achieve procedural clarity in Phase 1, 16:36:25
16 aligning with GEA direction and eliminating 16:36:29
17 duplication; right? 16:36:32
18 A. That's correct. 16:36:35
19 Q. Okay. This would be a convenient 16:36:36
20 time to break. 16:36:38
21 PRESIDENT: Okay. Very good. So we 16:36:39
22 will break for 15 minutes and continue at 4:50. 16:36:40
23 --- Recess taken at 4:36 p m. 16:36:47
24 --- Upon resuming at 4:52 p m. 16:52:00
25 PRESIDENT: Mr. Terry, for planning 16:52:26

Page 323

1 that point, but I think my staff had been given a 16:54:18
2 heads-up that they were going to be offered one. 16:54:21
3 Q. Right. And in the next -- next 16:54:23
4 e-mail, which is an interesting one, it's an e-mail 16:54:28
5 chain, if we could start at the second page of the 16:54:34
6 e-mail chain. This is Mr. Paul Evans who -- he -- 16:54:37
7 like you, he's at the ADM level at the Ministry of 16:54:42
8 Environment; correct? 16:54:46
9 A. That's right. He is my policy 16:54:47
10 counterpart. 16:54:49
11 Q. Okay. And he's -- he's writing. 16:54:49
12 He's saying, Rosalyn and Eric -- and that is Eric 16:54:51
13 Boysen who we talked about later -- or earlier; 16:54:55
14 right? 16:54:57
15 A. That's right. 16:54:57
16 Q. And he says: 16:54:58
17 "Last week we had also talked 16:54:59
18 about contact with the 16:55:01
19 offshore proponent. Rosalyn 16:55:02
20 indicated it was best for MNR 16:55:04
21 to contact the proponent 16:55:06
22 after the announcement. 16:55:07
23 Could you confirm to me that 16:55:07
24 MNR will contact the 16:55:10
25 proponent after the 16:55:10

Page 324

1 announcement and reiterate 16:55:10
2 the expectations we have on 16:55:12
3 them for offshore wind 16:55:14
4 development?" [As read] 16:55:16
5 And he says: 16:55:17
6 "There are several 16:55:17
7 environmental approvals and 16:55:17
8 requirements that offshore 16:55:22
9 projects would have to 16:55:22
10 meet." [As read] 16:55:22
11 And he says: 16:55:22
12 "Ontario plans to have a 16:55:22
13 framework in place with clear 16:55:22
14 guidance and rules on the 16:55:26
15 studies and requirements all 16:55:28
16 applicants must include when 16:55:30
17 proposing an offshore wind 16:55:31
18 development." [As read] 16:55:32
19 Then if we -- if we come to the next 16:55:33
20 page, if you come back to the first page, we see the 16:55:37
21 next chain. This is you writing back to Mr. Evans 16:55:40
22 and to Mr. Boysen. You say: 16:55:43
23 "Again, I reiterate my 16:55:47
24 comment about having 16:55:49
25 frameworks in place. We do 16:55:49

Page 326

1 noted to Neil tonight, I do 16:56:23
2 not much like the MOE 16:56:23
3 messaging that leaves the 16:56:23
4 public with the misperception 16:56:23
5 that the province has no 16:56:23
6 guidance in place. It sounds 16:56:23
7 like a sad admission. I 16:56:23
8 think we need to rise to 16:56:36
9 Rosalyn's challenge to MOE 16:56:38
10 and message that, yes, we 16:56:39
11 have adequate rules in place, 16:56:39
12 and we'll improve as we go." 16:56:39
13 [As read] 16:56:39
14 Now, the rules, the framework that you 16:56:44
15 were talking about was the framework that we started 16:56:45
16 with when we started our discussion this afternoon, 16:56:48
17 right, the approval and permitting requirements 16:56:51
18 document? 16:56:53
19 A. Yes. And dates back to lifting of 16:56:57
20 the window in 2008 where the determination was made 16:56:59
21 that, based on our processes and environmental 16:57:04
22 assessment and our analysis and information of the 16:57:10
23 wind resource at the time, we would be -- we were, 16:57:14
24 as a Ministry, very comfortable continuing with what 16:57:20
25 is our normal approach to work with proponents on a 16:57:23

Page 325

1 site release policy and 16:55:52
2 approval and permitting 16:55:54
3 requirements." [As read] 16:55:55
4 And those are the two policies we've 16:55:55
5 looked at; right? 16:55:57
6 A. That's correct. 16:55:59
7 Q. And you say: 16:55:59
8 "If we gain further insight 16:56:00
9 into impacts or environmental 16:56:03
10 issues or environmental 16:56:04
11 issues from the studies we 16:56:04
12 already require, we will 16:56:04
13 modify our rules 16:56:04
14 accordingly." [As read] 16:56:04
15 And it says: 16:56:04
16 "Current messaging leaves the 16:56:09
17 inference that we are 16:56:12
18 operating in a vacuum, and we 16:56:13
19 aren't." [As read] 16:56:15
20 That's what you said -- 16:56:15
21 A. I did. 16:56:17
22 Q. -- to Ministry of Environment? 16:56:18
23 Then we have Mr. Cain, as we go up, saying: 16:56:18
24 "Thank goodness for frank 16:56:23
25 comments from Rosalyn. As I 16:56:23

Page 327

1 site-by-site basis and iterate and evolve the 16:57:28
2 approval process as we went forward. 16:57:36
3 Q. Right. Now I would like to take 16:57:38
4 you to the first meeting that your staff had with 16:57:41
5 Windstream, as I understand it, together with other 16:57:48
6 staff from other ministries. 16:57:51
7 And first of all I have included at 16:57:52
8 Tab 11 the account that Mr. Baines has of this 16:57:53
9 meeting. It's at paragraph 76 of his witness 16:57:57
10 statement. He says: 16:58:00
11 "The first meeting we held 16:58:02
12 was with representatives of 16:58:03
13 the Ministries of Natural 16:58:05
14 Resources, Energy and 16:58:05
15 Infrastructure, Environment 16:58:06
16 and Culture." [As read] 16:58:08
17 This is April 19th. 16:58:08
18 "Purpose of this meeting was 16:58:09
19 to discuss the project to 16:58:10
20 determine what information 16:58:12
21 the government would need 16:58:12
22 from us to begin the 16:58:13
23 permitting development 16:58:14
24 process. At this meeting we 16:58:15
25 received no indication 16:58:17

Page 328

1 whatsoever from any Ontario 16:58:18
2 Government official that our 16:58:19
3 offshore wind project would 16:58:21
4 be treated any differently by 16:58:22
5 the government from any other 16:58:23
6 project for which a FIT 16:58:24
7 contract had been awarded. 16:58:25
8 On the contrary, the Ministry 16:58:27
9 staff advised us of the 16:58:29
10 government's support for the 16:58:29
11 Wolfe Island Shoals project 16:58:30
12 and that, among other things, 16:58:32
13 our project had the highest 16:58:33
14 priority for receiving 16:58:34
15 Applicant of Record status. 16:58:35
16 This is reassuring to us as 16:58:37
17 it confirmed that we would be 16:58:38
18 able to study the wind 16:58:39
19 resource and to commence the 16:58:41
20 renewable energy process in a 16:58:43
21 timely fashion."[As read] 16:58:44
22 And that meeting was attended by 16:58:45
23 representatives of various ministries, as it says 16:58:50
24 here, Ministry of Natural Resources, Energy and 16:58:52
25 Infrastructure, Environment and Culture. 16:58:54

Page 330

1 A. I don't know. 17:00:15
2 Q. All right. Now, this is your 17:00:16
3 account of what you understand Mr. Boysen said, but 17:00:22
4 we actually have a contemporaneous e-mail, which is 17:00:26
5 at Tab 12. If you could turn to that. And you'll 17:00:29
6 see that this is Mr. Boysen writing to, among 17:00:37
7 others, you, April 19. It says: 17:00:41
8 "We just wrapped up our 17:00:44
9 meeting with the developers." 17:00:46
10 It talks about who was in attendance. 17:00:47
11 He says: 17:00:50
12 "From the developer --" 17:00:50
13 He's describing what was said. 17:00:51
14 "-- lots of development 17:00:52
15 experience in Ontario, 17:00:54
16 Melancthon, Wolfe Island."[As 17:00:57
17 read] 17:00:57
18 Recognizes the upcoming challenges 17:00:57
19 associated with offshore, but they're assembling a 17:01:01
20 team with lots of the necessary experience. He's 17:01:03
21 thinking of 60 to 80 turbines at this time. Will 17:01:07
22 likely use fixed-platform turbines. Committed to 17:01:10
23 investing locally. Going to be doing some testing. 17:01:15
24 Will make use of existing infrastructure. They 17:01:19
25 understand the engineering challenge. But are 17:01:25

Page 329

1 You didn't attend the meeting, did you? 16:58:55
2 A. I did not. 16:58:58
3 Q. And -- and yet you have provided 16:58:59
4 in your witness statement a description as to what 16:59:02
5 you understand happened at that meeting. And I 16:59:05
6 would just refer you to your witness statement. 16:59:09
7 That's at paragraphs 29 through to 31, 32, 33. 16:59:11
8 A. Yes. 16:59:23
9 Q. And -- and you say in -- for 16:59:24
10 example, at the bottom of paragraph 30, that, in 16:59:30
11 fact, what you understand from Mr. Boysen was that 16:59:34
12 the purpose of the meeting was to obtain information 16:59:38
13 from Windstream that also explained the project 16:59:40
14 presented challenges for the government; right? 16:59:42
15 A. That's correct. 16:59:46
16 Q. Okay. And Mr. Boysen has not been 16:59:47
17 put forward as a witness by Canada in this 16:59:50
18 proceeding, has he? 16:59:52
19 A. He's not. He's retired. 16:59:55
20 Q. All right. And has anyone else 16:59:56
21 from the Ministry of Natural Resources who attended 16:59:59
22 -- has any -- to the best of your knowledge, has any 17:00:02
23 other person who attended that meeting been put 17:00:05
24 forward as a witness in this proceeding? If you 17:00:08
25 don't know, you can just say that. 17:00:14

Page 331

1 prepared to deal with it. 17:01:27
2 And then he says at the very bottom 17:01:28
3 here: 17:01:29
4 "Bottom line for me: We are 17:01:30
5 as ready for this project as 17:01:31
6 all of the others on Crown 17:01:33
7 land." [As read] 17:01:34
8 Now, is there any reason, 17:01:36
9 Ms. Lawrence, with respect, that you can give me as 17:01:40
10 to why we should prefer -- why we should not accept 17:01:42
11 what Mr. Boysen was saying in that bottom line at 17:01:49
12 the time in his contemporaneous letter as being the 17:01:51
13 best evidence as to what happened there from the 17:01:55
14 MNR's perspective. 17:01:56
15 A. So my interpretation of that is 17:01:57
16 quite consistent with what our approval and approach 17:01:59
17 to our environmental and ecological approvals is. 17:02:02
18 We can work with the proponent on a site-specific 17:02:08
19 basis and learn and adapt as we go. 17:02:12
20 Q. Okay. So you would agree with his 17:02:16
21 statement that, at the time, that MNR was as ready 17:02:18
22 for this project as all of the others on Crown land? 17:02:21
23 A. Well, I would agree with Eric's 17:02:25
24 assessment as being Eric's assessment of it. I 17:02:28
25 wasn't at the meeting. 17:02:31

Page 332

1 Q. Okay. If we could turn to the 17:02:32
2 next document, which is this August 9, 2010 letter. 17:02:34
3 And I understand you weren't involved in the process 17:02:41
4 of -- you weren't the author of this letter? 17:02:49
5 A. I was not. 17:02:53
6 Q. All right. And were you involved 17:02:54
7 in -- I understand you weren't involved in the 17:02:55
8 process of the drafting or provision of this letter? 17:02:59
9 A. Well, I would have been aware of 17:03:04
10 the letter, because we would have needed Minister's 17:03:05
11 approval to send it. 17:03:09
12 Q. Okay. And -- and is it true that 17:03:10
13 you also, if you can turn to Tab 14, that, in 17:03:13
14 addition to Minister's approval, there was actually 17:03:17
15 approval from the Premier's Office with respect to 17:03:20
16 sending this letter? You can see that, in the next 17:03:22
17 e-mail, there is a discussion that involves Sean 17:03:26
18 Mullin of the Premier's Office, and you can see that 17:03:30
19 Sean Mullin is saying, "Looks fine to me," after 17:03:32
20 Richard Linley sends him the letter and the 17:03:36
21 description of it. 17:03:38
22 A. I'm not familiar with this e-mail. 17:03:39
23 We wouldn't interact with the Premier's Office from 17:03:48
24 our side of it. 17:03:52
25 Q. Right. 17:03:53

Page 334

1 A. Yes. It was -- 17:05:28
2 Q. Do you recall that? Yea. 17:05:28
3 A. -- conditional on the Ministry of 17:05:29
4 Environment's conclusion and articulation of its 17:05:35
5 policy on setback zones. 17:05:38
6 Q. Right. And do you recall that the 17:05:41
7 window of -- for that posting was due to expire 17:05:43
8 sometime in -- in mid-September? It's not a memory 17:05:47
9 test, so if you don't recollect, that's fine. 17:05:53
10 A. It's roughly the timeline. 17:05:55
11 Q. Okay. And the -- if I could turn 17:05:57
12 to the next document, and it's at tab -- Tab 15. 17:06:04
13 For the record, these are documents which are C-351 17:06:15
14 and C-352. 17:06:19
15 And the reason I have just included it 17:06:23
16 here is just to give a reminder as to what the 17:06:25
17 thinking was at the time with MOE and MNR with 17:06:27
18 respect to the timelines that were anticipated for 17:06:33
19 the setback issue to be resolved and a new 17:06:37
20 regulation on this. 17:06:42
21 So you can see when you look at this e-mail that 17:06:42
22 this involves discussions between MNR. It starts 17:06:44
23 with Ministry of the Environment at the bottom and 17:06:47
24 MNR, and they're discussing, understandings as to 17:06:50
25 what the timeline -- expected timeline would be. 17:06:53

Page 333

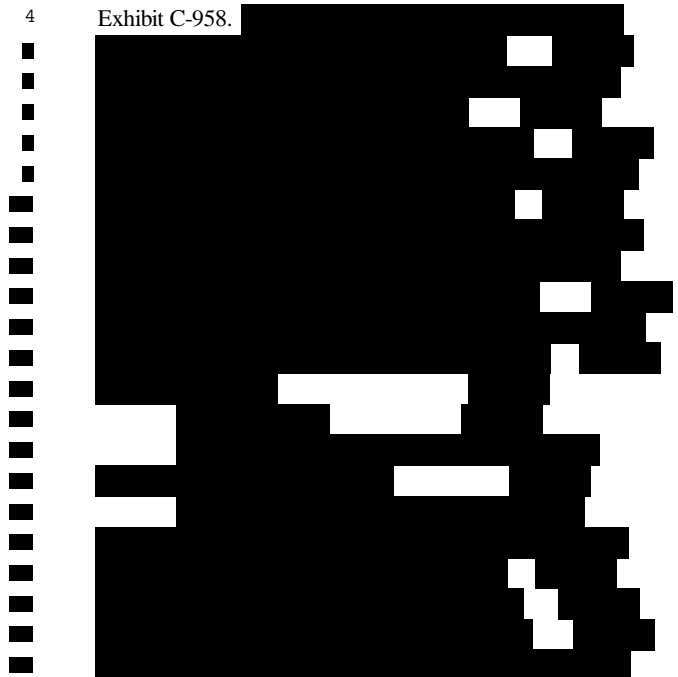
1 A. I don't know what Richard is 17:03:53
2 doing, but I think typically ministries work 17:03:57
3 together, both bureaucratically and politically. So 17:04:02
4 it doesn't surprise me that somebody might be 17:04:06
5 involved from the Premier's Office. 17:04:11
6 Q. Okay. And I think you made the 17:04:12
7 point in your witness statement -- you did say that 17:04:20
8 this, from your perspective, wasn't the type of 17:04:21
9 comfort letter that would be given to a financial 17:04:24
10 institution, but that it was rare for MNR to provide 17:04:26
11 this kind of letter. 17:04:29
12 A. Well, it was rare because it flew 17:04:33
13 in the face of policy that we had just put out which 17:04:36
14 said we weren't entertaining grid cell swaps or 17:04:42
15 reconfigurations, and we had never actually 17:04:46
16 processed such a request, to my knowledge, before. 17:04:50
17 Q. Right. So it was rare for MNR to 17:04:53
18 provide this kind of letter? 17:04:56
19 A. It was. 17:04:58
20 Q. Now, this letter, of course, was 17:05:11
21 conditional on -- the idea was that there would 17:05:14
22 first be a determination as to what the applicable 17:05:18
23 setback was going to be, because you remember that 17:05:22
24 was an issue at the time, the setback for offshore 17:05:24
25 wind turbines? 17:05:27

Page 335

1 And you'll see that there is a timeline overview 17:06:57
2 document discussed here, dated the 23rd of August, 17:06:59
3 2010. 17:07:03
4 Is this consistent with your 17:07:05
5 recollection, that, at that time, for planning 17:07:07
6 purposes, both MOE and MNR were anticipating that 17:07:09
7 they would have completed their processes and would 17:07:12
8 have revised regulations by January 2011? 17:07:15
9 A. Yes. That's what we were 17:07:20
10 targeting. 17:07:21
11 Q. Okay. And that's -- also if we 17:07:22
12 turn to Tab 17, which is Exhibit 840 -- C-840, we 17:07:33
13 can also see what Mr. Boysen, who authored that 17:07:42
14 August 9 letter, was thinking at the time in terms 17:07:45
15 of the next steps. And he says: 17:07:48
16 "While we have cautioned that 17:07:51
17 the outcome of the EBR 17:07:52
18 consultation is not yet 17:07:53
19 concluded --" 17:07:55
20 That's because it wasn't going to 17:07:55
21 conclude until mid-September, right? Correct? 17:07:57
22 A. Correct. 17:08:01
23 Q. He says: 17:08:02
24 "-- I would like to, first of 17:08:02
25 all, hold a meeting with the 17:08:04

1 proponent to begin 17:08:06
2 discussions on which 17:08:07
3 additional grid cells may be 17:08:08
4 required outside of the 17:08:09
5 5-kilometre exclusion zone, 17:08:09
6 initiate a site description 17:08:12
7 meeting to begin sharing 17:08:14
8 information on known values, 17:08:15
9 concerns, et cetera, plan out 17:08:16
10 consultation, and plan out 17:08:18
11 steps to achieve, what he 17:08:20
12 says, the mythical Applicant 17:08:21
13 of Record status." 17:08:21
14 So that was, again, what Mr. Boysen, 17:08:23
15 to the best of your knowledge, intended to do at the 17:08:27
16 time? 17:08:30
17 A. Yes. 17:08:32
18 Q. Okay. And, finally, the next 17:08:33
19 document, I believe, is a confidential one. We 17:08:40
20 should cut the feed, please? 17:08:43
21 MR. TERRY: Cut the feed, please. 17:08:53
22 MS. NETTLETON: They are going to cut 17:08:55
23 it. 17:08:55
24 MR. TERRY: Okay. All right. Thank 17:08:56
25 you very much. 17:08:56

1 --- Confidential transcript begins 17:08:56
2 BY MR. TERRY: 17:08:56
3 Q. And this is at Tab 18, which is 17:08:56
4 Exhibit C-958.



1 [REDACTED]
2 [REDACTED]
3 [REDACTED] 17:10:27
4 Q. Right. Okay. And if we can turn, 17:10:30
5 then, to the -- the next document. And I wanted to 17:10:37
6 take you to the -- through some of the various steps 17:10:43
7 that led up to what we call the moratorium. And 17:10:46
8 this document is at -- it's C-0072, for the record. 17:10:52
9 And this is a document that was -- 17:10:58
10 came out in June 9, 2009, discussing the next steps 17:11:02
11 in the REA regulation. Do you see that? 17:11:09
12 A. I do. 17:11:13
13 Q. And if you turn to the second 17:11:13
14 page, you will see there is a reference here that -- 17:11:16
15 in the bottom-to-last paragraph, above solar energy 17:11:22
16 facilities, it talks about offshore wind facilities. 17:11:26
17 It says -- and I appreciate this is a MOE document, 17:11:29
18 not MNR, but it says: 17:11:32
19 "There are special rules for 17:11:32
20 wind facilities that include 17:11:34
21 turbines in contact with 17:11:36
22 surface water other than 17:11:36
23 wetlands. These facilities 17:11:38
24 require a REA and are 17:11:39
25 required to submit an 17:11:41

1 offshore wind facility report 17:11:43
2 as part of the application." 17:11:44
3 And we've gone through that, those 17:11:45
4 provisions. And then it says: 17:11:49
5 "The Ministry of the 17:11:49
6 Environment and the Ministry 17:11:51
7 of Natural Resources continue 17:11:51
8 to work on a coordinated 17:11:53
9 approach to offshore wind 17:11:55
10 facilities which would 17:11:56
11 include province-wide minimum 17:11:57
12 separation distance standards 17:11:59
13 for noise." 17:12:01
14 And do you recall that there was 17:12:01
15 discussion at this time that there -- for onshore 17:12:07
16 wind turbines, there had been a 550-metre set for 17:12:12
17 noise. Do you recall that? 17:12:15
18 A. I do. 17:12:16
19 Q. And that this was looking at what 17:12:17
20 the appropriate distance should be for offshore 17:12:19
21 turbines for noise; correct? 17:12:23
22 A. Yes. 17:12:39
23 Q. And it says: 17:12:41
24 "The Ministry of the 17:12:42
25 Environment and Ministry of 17:12:43

Page 340

1 Natural Resources continue to 17:12:43
2 work on a coordinated 17:12:45
3 approach." 17:12:46
4 Do you have any recollection, in June 17:12:46
5 of 2009, as to what work you were doing with the 17:12:49
6 Ministry to coordinate your approach in determining 17:12:53
7 separation distances? I ask because I see a 17:12:57
8 discussion occurring about a year later, but I don't 17:13:00
9 see anything in June of 2009. 17:13:03
10 A. I don't have any recollection of 17:13:08
11 such discussions, and it would be unlikely that we 17:13:10
12 would be involved in discussions on noise setbacks. 17:13:14
13 It's not our line of business. 17:13:17
14 Q. Okay. And then if we can turn to 17:13:20
15 the next document, which is at Tab 20. And for the 17:13:28
16 record, this is Tab C-0231. And this is an e-mail. 17:13:35
17 If you could start with the -- with the second page 17:13:47
18 here because this is dealing with this -- do you 17:13:49
19 recall, in April, after Windstream had been awarded 17:13:52
20 the FIT contract, that there was a discussion that 17:13:58
21 commenced at the time about -- about 5-kilometre 17:14:02
22 offshore setbacks? 17:14:07
23 A. Commenced at the -- at the 17:14:11
24 Ministry -- Ministerial level? Yes. 17:14:12
25 Q. Right. And, so as you say, this 17:14:14

Page 342

1 A. I do. 17:15:01
2 Q. And then she goes on to say that: 17:15:02
3 "MNR has a paper with the 17:15:07
4 rationale to support this." 17:15:09
5 And it says." 17:15:10
6 "Comment from MNR Minister's 17:15:11
7 office: Do we?" 17:15:15
8 And then she says: 17:15:16
9 "EBR posting, this is going 17:15:17
10 to occur as to signal intent 17:15:23
11 to go further to establish 17:15:24
12 no-go zones based upon 17:15:25
13 greater scientific and other 17:15:27
14 analysis?" 17:15:29
15 Do you see that? 17:15:30
16 A. Yes. 17:15:31
17 Q. And it says that it was Mr. Duguid 17:15:32
18 who suggested the 5K setback, and it says: 17:15:34
19 "Which might align with 17:15:39
20 Richard's comment that we 17:15:40
21 need to hear back from 17:15:41
22 Ministry of Energy about 17:15:42
23 setback specific." 17:15:45
24 Then he says: 17:15:45
25 "The 5-kilometre setback is 17:15:45

Page 341

1 is at the Ministerial level here. So as I 17:14:16
2 understand this document here -- do you know who 17:14:20
3 Gail is, by the way? 17:14:21
4 A. Gail Beggs was the Deputy Minister 17:14:24
5 of MOE at the time. 17:14:26
6 Q. Okay. And so -- so she would be 17:14:27
7 Paul Evans boss? 17:14:30
8 A. She would. 17:14:31
9 Q. All right. And she -- this is 17:14:32
10 writing to you. This is someone named Virginia 17:14:34
11 West. Who is Virginia West? 17:14:38
12 A. She was my Deputy Minister at the 17:14:39
13 time. 17:14:41
14 Q. Okay. So it's your Deputy writing 17:14:41
15 about a conversation she's had with another Deputy; 17:14:44
16 correct? 17:14:47
17 A. Yes. 17:14:48
18 Q. And she says: 17:14:49
19 "Gail tells me MOE has been 17:14:50
20 asked to prepare an EBR 17:14:53
21 posting in two weeks which 17:14:55
22 sets the 5-kilometre 17:14:56
23 offshore. Unclear whether 17:14:56
24 from mainland or any land." 17:14:58
25 Do you see that? 17:14:59

Page 343

1 based upon visual aesthetic, 17:15:47
2 which wouldn't be informed by 17:15:48
3 any MNR paper then?" 17:15:50
4 What was your understanding about 17:15:51
5 visual aesthetic? What was meant by that? 17:15:55
6 A. Distance from shore and view of 17:16:05
7 the operation. 17:16:09
8 Q. So the concern would be that 17:16:11
9 people would see the turbines offshore? 17:16:13
10 A. Yes. That would be Minister 17:16:23
11 Duguid's concern at the time. 17:16:27
12 Q. Okay. And the concern would be 17:16:28
13 that the farther away the turbines were, the less 17:16:30
14 likely that you were able to -- to see them or feel 17:16:34
15 affronted by the look of wind turbines and the like? 17:16:43
16 A. Yes. Think that's a social 17:16:51
17 licence issue. 17:16:52
18 Q. Right. And then -- and then, when 17:16:55
19 we go to the next page, we see Mr. Boysen running 17:16:57
20 writing to you, responding to what your Deputy's 17:17:00
21 been saying. And he says to you: 17:17:06
22 "We have no rationale to 17:17:07
23 support any number. That has 17:17:09
24 been our consistent story 17:17:11
25 line." 17:17:13

Page 344

1 And I assume, when he's saying, "No 17:17:13
2 rationale to support any number," he's saying no 17:17:16
3 rationale to support the 5-kilometre setback or any 17:17:18
4 particular number for a setback; correct? 17:17:20
5 A. That's right. No information or 17:17:25
6 science to suggest what a setback should be and no 17:17:27
7 ecological rationale or any other natural resource 17:17:31
8 values rationale. 17:17:36
9 Q. Right. And he goes -- he goes on 17:17:37
10 to say, in the second line down: 17:17:39
11 "What I was told is that we 17:17:41
12 are to work backwards from 17:17:43
13 the number to provide a 17:17:44
14 rationale for it, but this 17:17:45
15 can't be about aesthetics, or 17:17:46
16 there will be a similar cry 17:17:48
17 for exclusion zones on land." 17:17:49
18 So there he's talking about the 17:17:51
19 concern that if you -- if the rationale is 17:17:53
20 aesthetics, then people would say, well, there should17:17:55
21 be a similar distance from people from wind turbines 17:17:58
22 on land; correct? 17:18:01
23 A. Well, I don't -- I wouldn't read 17:18:07
24 it that far. I would suggest he's saying there will 17:18:08
25 be unequal treatment and a pressure from on-land 17:18:14

Page 346

1 someone who clearly wasn't in the room and very 17:19:13
2 speculative and very second, third-hand at best. 17:19:22
3 Q. By the way, we should go off feed 17:19:31
4 now. Thanks. Or, sorry, back on feed, I mean. 17:19:33
5 --- Confidential transcript ends 17:19:36
6 BY MR. TERRY: 17:19:42
7 Q. And so I assume you don't have any 17:19:42
8 knowledge, when he says, "I heard from those in the 17:19:44
9 room," as to what his sources were? 17:19:46
10 A. I have no idea. 17:19:49
11 Q. Okay. And if we could then turn 17:19:50
12 the document at Tab 22. And this is -- this is 17:20:11
13 C-238. Actually, just before we go to that tab, if 17:20:21
14 we go to the -- briefly to the tab before that, 17:20:36
15 which is at -- which is a MNR, Ministry of Natural 17:20:37
16 Resources, policy paper. Was this something that 17:20:42
17 your division would've produced? If you could flip 17:20:47
18 to the front page, you will see the title page. 17:20:54
19 A. Yes. 17:20:57
20 Q. Yes? And this is at, for the 17:20:58
21 record, it's C-72. And just picking up on this 17:20:59
22 point about aesthetics, if we go to the fifth page of17:21:04
23 this document, we see, toward the bottom here, it 17:21:08
24 said in this document: 17:21:16
25 "REA does not currently 17:21:16

Page 345

1 proponents to do the -- to do the same. I thought 5 17:18:20
2 kilometres is very rational. 17:18:26
3 Q. Okay. And then if you go to the 17:18:31
4 top part of the e-mail, the third paragraph there, 17:18:34
5 he says: 17:18:37
6 "I heard that those in the 17:18:37
7 room --" 17:18:40
8 Or, sorry, this is Eric to you and 17:18:40
9 Mr. -- 17:18:43
10 "I heard that those in the 17:18:43
11 room were all referring to 17:18:45
12 the slide which shows the 17:18:46
13 relative size of wind 17:18:47
14 turbines at a certain 17:18:48
15 distance away and thought 17:18:50
16 that they would virtually 17:18:50
17 disappear at 5 kilometres, so 17:18:52
18 it isn't just about the 17:18:53
19 environment." 17:18:54
20 And I take it it's obvious there that 17:18:55
21 Mr. Boysen was referring to the fact that the 17:18:59
22 Ministers, in seeing the slides, were hoping that, 17:19:01
23 by putting the turbines 5 kilometres away, they'd 17:19:05
24 virtually disappear from view? 17:19:08
25 A. I think that's a rash opinion from 17:19:11

Page 347

1 address offshore setbacks 17:21:19
2 aesthetics." 17:21:22
3 And then you say: 17:21:22
4 "There is no science --" 17:21:24
5 Or this document says: 17:21:25
6 "There is no science or 17:21:26
7 Ontario experience to support 17:21:29
8 establishment of a specific 17:21:30
9 minimum setback requirement. 17:21:31
10 And that would be a reflection, 17:21:35
11 presumably, of the views of the Ministry policy 17:21:36
12 staff at the time? 17:21:40
13 A. Yes. An awareness and a view that 17:21:44
14 we had no policy experience to support any numerical 17:21:49
15 setback or science. 17:21:52
16 Q. Okay. And the only basis that you 17:21:55
17 were aware of for a setback would be aesthetics, or 17:22:00
18 the only -- the rationale that would appear to be 17:22:06
19 being put forward at the time was for aesthetics? 17:22:10
20 A. Yeah. Based on my e-mail from my 17:22:12
21 Deputy Minister, that's what I knew. 17:22:19
22 Q. And if we turn -- and I appreciate 17:22:29
23 -- this is at Tab 23, and I appreciate you wouldn't 17:22:31
24 be involved in this exchange, but, again reflecting 17:22:36
25 the aesthetics issue. This is C-823 for the record. 17:22:40

1 [REDACTED] 17:28:08
2 [REDACTED] 17:28:08
3 Q. All right. And if we can turn 17:28:09
4 to -- back to the front of this document. Here is 17:28:12
5 -- you received this document from Mr. Linley, and 17:28:20
6 you are sending it to Mr. Boysen and you say: 17:28:24
7 "Colourful language. The 17:28:28
8 attached will minimally 17:28:31
9 irritate you or maximally 17:28:32
10 make your head explode in 17:28:32
11 anger." 17:28:36
12 And just wondering if you -- I 17:28:36
13 appreciate this was some time ago, but can you 17:28:39
14 recall why you had that reaction? 17:28:42
15 A. I do. 17:28:49
16 Q. Okay. 17:28:50
17 A. And I think my e-mail speaks to 17:28:52
18 it. My reaction was that, having spent some number 17:28:55
19 of months explaining we had no science to support an 17:29:01
20 exclusion zone, it was over to us, which left us in 17:29:07
21 a very tricky communications position, particularly 17:29:16
22 since we had indicated our comfort with the 17:29:23
23 knowledge that we did have and our confidence in the 17:29:27
24 environmental assessment and review processes when 17:29:32
25 we lifted the window on the moratorium in 2006. 17:29:37

1 transmission no-go is what 17:30:41
2 takes out Lakes Huron and 17:30:42
3 Superior." 17:30:44
4 What did you mean by that? 17:30:45
5 A. I honestly don't remember. I know 17:30:58
6 I would've been familiar with what the no-go zones 17:31:01
7 did, because we had done some considerable mapping 17:31:05
8 in support of options development. 17:31:08
9 Q. Just to -- 17:31:14
10 A. It's my own speculative 17:31:15
11 conclusion. 17:31:17
12 Q. And can you remember -- 17:31:17
13 appreciating that it may be speculative, but what 17:31:20
14 was your conclusion? Why was it that it would be 17:31:22
15 designed to take out those two lakes? 17:31:28
16 MR. NEUFELD: I think the witness has 17:31:33
17 said she doesn't remember, so it's a bit of a 17:31:34
18 stretch to ask her to speculate from there. 17:31:36
19 MR. TERRY: I would respectfully 17:31:40
20 suggest I'm simply following up. I think the 17:31:42
21 witness will have likely more that she may 17:31:44
22 recollect. 17:31:48
23 THE WITNESS: I honestly don't 17:31:49
24 remember. 17:31:50
25 BY MR. TERRY: 17:31:53

1 Q. All right. And we can see this, 17:29:42
2 if we turn to the next document. This is -- this is 17:29:44
3 -- it would be your Tab 25 now, at C-905. 17:29:48
4 And here you are saying: 17:29:58
5 "Copying Ken and Eric so 17:30:04
6 we're all on the same page. 17:30:07
7 Ken and Eric, I think this is 17:30:08
8 even worse. It would seem 17:30:11
9 that it is the OPA who gets 17:30:12
10 to ride under cover of 17:30:14
11 transmission constraints, and 17:30:16
12 they're leaving to MNR to do 17:30:18
13 the arbitrary 5K setback. 17:30:19
14 Light just went off. The 17:30:23
15 transmission no-go is what 17:30:25
16 takes out Lakes Huron and 17:30:26
17 Superior. Nothing to do with 17:30:28
18 setbacks. We're going to 17:30:30
19 have to rely very, very 17:30:31
20 heavily on the Q&As to elicit 17:30:32
21 the many policy flaws in the 17:30:34
22 proposal." 17:30:36
23 And what I am just wondering is what 17:30:36
24 you meant by: 17:30:38
25 "Light just went off. The 17:30:39

1 Q. Okay. And do you remember any 17:31:53
2 particular issues around Lake Huron or opposition to 17:31:56
3 offshore wind in Lake Huron? 17:32:02
4 A. I don't. And I don't think Lake 17:32:09
5 Superior had ever been the subject of any offshore 17:32:11
6 development. 17:32:19
7 Q. But I take it, at that point in 17:32:25
8 time, even though you don't recollect, there was 17:32:26
9 some light that went off in your mind and some 17:32:29
10 significance to the fact that the transmission no-go 17:32:32
11 would take out Lakes Huron and Superior. Is that 17:32:34
12 fair to say? 17:32:37
13 A. Yes. 17:32:45
14 Q. Now, you do in your witness 17:32:50
15 statement talk about there being a healthy policy 17:32:58
16 discussion between MNR, MOE, and Energy and that the 17:33:04
17 Ministry's role, once that discussion was concluded, 17:33:09
18 was to implement that decision. 17:33:13
19 A. That's right. 17:33:15
20 Q. And at the next document at Tab 17:33:17
21 26 -- and this is C-180 -- and we see an e-mail from 17:33:20
22 Sue Lo, and she -- she was -- was she one of your 17:33:33
23 counterparts at Ministry of Energy as an ADM? 17:33:37
24 A. Yes. She was in the renewable 17:33:41
25 energy facilitator's office, ADM. 17:33:42

Page 356

1 Q. She says, if we start on the 17:33:46
2 second page: 17:33:48
3 "Following up on our 17:33:48
4 teleconference yesterday, I 17:33:50
5 received further direction 17:33:51
6 from the MO, PO, DMO --" 17:33:54
7 So that's Minister's Office, Premier's 17:33:56
8 Office, Deputy Minister's office; correct. 17:33:59
9 A. Yes. 17:34:02
10 Q. (Reading): 17:34:02
11 "-- on this file, and the 17:34:02
12 communications plan that will 17:34:03
13 be developed will focus on 17:34:05
14 the preferred option being 17:34:06
15 moratorium on offshore wind 17:34:07
16 for next three to five years 17:34:09
17 to provide time to develop 17:34:11
18 the science and create the 17:34:12
19 uniform rules and policies in 17:34:13
20 collaboration with the Great 17:34:15
21 Lakes states. The preferred 17:34:16
22 option will also involve 17:34:18
23 discussions with the 17:34:20
24 developer of Wolfe Island 17:34:21
25 Shoals project, such that the 17:34:21

Page 358

1 see that there's a -- a press release. If you could 17:36:11
2 just turn over. Yes, you see that? A draft 17:36:18
3 communications release? 17:36:22
4 A. I do. 17:36:25
5 Q. Sorry. I'll give you a moment to 17:36:25
6 have a drink. 17:36:27
7 And you will see that this communications plan is, 17:36:28
8 it says, in the second paragraph: 17:36:36
9 "The province has identified 17:36:39
10 areas of the province in 17:36:40
11 eastern Lake Ontario and 17:36:41
12 eastern Lake Erie where 17:36:43
13 projects could be considered 17:36:44
14 to feed power into Ontario's 17:36:46
15 grid and has confirmed that 17:36:47
16 any projects would be subject 17:36:48
17 to minimum 5-kilometre 17:36:50
18 setback from shore." [As 17:36:50
19 read] 17:36:52
20 So this communications plan is 17:36:52
21 consistent with what you described as Option 1; 17:36:55
22 correct? This particular communications plan here? 17:36:57
23 A. Yes. But inconsistent with the 17:37:05
24 subsequent information we got that it was Option 2. 17:37:07
25 Q. Right. 17:37:10

Page 357

1 project won't proceed until 17:34:22
2 the science and uniform rules 17:34:23
3 and policies have been 17:34:25
4 developed." 17:34:27
5 So I take it that's -- that's that is 17:34:27
6 the decision that you are referring to that -- that 17:34:28
7 was made and that you at MNR implemented? 17:34:31
8 A. Yes. Although it wasn't this 17:34:52
9 decision of two days prior. 17:34:54
10 Q. What do you mean by that? 17:34:57
11 A. Well, the "head explode" -- 17:34:59
12 Q. Right. 17:35:08
13 A. -- was based on information from 17:35:08
14 Richard Linley that Option 1 had been chosen. And 17:35:12
15 two days later, Option 2. 17:35:21
16 Q. Okay. And did you know at the 17:35:23
17 time why option -- or the process as to how Option 2 17:35:25
18 was chosen? 17:35:29
19 A. No, I have no idea, as not being 17:35:32
20 directly involved in any of this decision-making 17:35:42
21 process. 17:35:47
22 Q. Okay. And if we turn to the next 17:35:49
23 document, which is at Tab 27. And this is C-911. 17:35:51
24 If you could take a moment, you will see that there 17:36:03
25 is a -- skip over the first e-mail here. And you'll 17:36:05

Page 359

1 MR. BISHOP: Could I ask a question? 17:37:11
2 Is this date on this discussion draft correct? 17:37:14
3 MR. TERRY: My -- my understanding 17:37:18
4 would be that -- well, certainly from the 17:37:20
5 perspective of the parties, there's no dispute that 17:37:22
6 this document was attached. And our understanding 17:37:26
7 is that this was the anticipated date of the 17:37:28
8 announcement, and that's it was postdated to that 17:37:31
9 date. But I -- I could ask the witness if she 17:37:33
10 knows. She probably doesn't because it's not her -- 17:37:36
11 THE WITNESS: I don't have any idea. 17:37:38
12 MR. TERRY: Yes. 17:37:39
13 MR. BISHOP: Well, my question is 17:37:41
14 whether it should be 2011, not 2010. 17:37:42
15 MR. TERRY: Oh, I think that's 17:37:46
16 probably -- I don't think there is any dispute as to 17:37:48
17 that. 17:37:51
18 PRESIDENT: It was a genuine mistake. 17:37:54
19 BY MR. TERRY: 17:37:56
20 Q. And if you could just, looking at 17:37:56
21 this -- I appreciate you may not have seen these 17:37:59
22 documents before, Ms. Lawrence, but if you go to the 17:38:02
23 second page of the e-mail that precedes, so turn 17:38:06
24 over to the second page of that e-mail that's in 17:38:08
25 front of you just so you can see the chain here. 17:38:10

1 So you see Alicia Johnston from 17:38:13
 2 Ministry of Energy. Did you, by any chance, know 17:38:17
 3 who she was or... 17:38:18
 4 A. No. 17:38:20
 5 Q. Okay. You see a Ministry of 17:38:21
 6 Energy official is forwarding this to Chris Morley. 17:38:23
 7 Did you know who he was at the time? 17:38:26
 8 A. I believe he was the Chief of 17:38:30
 9 Staff. 17:38:36
 10 Q. Chief of Staff to who? 17:38:37
 11 A. To the Premier. 17:38:38
 12 Q. To the Premier, okay. And you'll 17:38:39
 13 see the e-mail says: 17:38:41
 14 "Morley, please find attached 17:38:42
 15 a communications plan in 17:38:43
 16 draft release for the 17:38:45
 17 offshore announcement."[As 17:38:46
 18 read] 17:38:47
 19 You see it says: 17:38:47
 20 "MOE and MNR have seen and 17:38:48
 21 fed into these"? 17:38:50
 22 A. I do see that. 17:38:51
 23 Q. All right. And then if we go 17:38:54
 24 then, if we flip back over to the first page, we see 17:38:56
 25 that message repeated. And then we see Mr. Morley 17:38:59

1 saying: 17:39:02
 2 "Sorry, folks, this isn't 17:39:02
 3 good enough. The purpose of 17:39:05
 4 this release is to kill all 17:39:06
 5 projects except the Kingston 17:39:07
 6 one, not suck and blow. 17:39:08
 7 Please turn this around so it 17:39:10
 8 kills the projects, not 17:39:12
 9 sounds like we're in favour 17:39:13
 10 of offshore wind." 17:39:14
 11 Then you'll see, if you look to the 17:39:15
 12 top of this, it says: 17:39:17
 13 [REDACTED] 17:39:21
 14 [REDACTED]
 15 [REDACTED]
 16 Were you aware of -- I take it from 17:39:23
 17 your answers that you weren't aware of this decision 17:39:25
 18 making process or of this e-mail correspondence -- 17:39:28
 19 A. No, not at all. 17:39:31
 20 Q. -- at the time? 17:39:32
 21 And -- and have you seen it -- is this the first 17:39:32
 22 time you are seeing these documents? 17:39:37
 23 A. I don't remember seeing this one 17:39:41
 24 in any of my materials. 17:39:43
 25 Q. And if we look at the next tab, 17:39:48

1 Tab 28, which is C-910, do you see that one where 17:39:53
 2 Mr. Morley is writing an e-mail to Mr. MacLennan of 17:40:01
 3 Energy and also another Premier's Office staff. And 17:40:06
 4 he says: 17:40:09
 5 "The longer this goes on, the 17:40:09
 6 closer I get to writing a 17:40:12
 7 news release myself that 17:40:13
 8 says..." 17:40:15
 9 And then he sets out -- he sets out 17:40:15
 10 what he believes the news release should say. 17:40:18
 11 So you talked about implementing the 17:40:34
 12 policy decision. Do you now, having seen these 17:40:36
 13 documents, understand how that decision was made? 17:40:41
 14 A. No. I don't think this is Chris 17:40:52
 15 Morley's decision to make. [REDACTED]
 16 [REDACTED]
 17 [REDACTED]
 18 [REDACTED]
 19 [REDACTED]
 20 [REDACTED]
 21 [REDACTED]
 22 [REDACTED]
 23 [REDACTED]
 24 [REDACTED] 17:41:40
 25 Q. Right. Sorry, that is -- you are 17:41:43

1 saying -- 17:41:45
 2 A. This is an e-mail from a political 17:41:46
 3 staffer. I know nothing about it. It's about a 17:41:48
 4 news release. I don't make the connection -- 17:41:51
 5 Q. Okay. 17:41:54
 6 A. -- to the decision. 17:41:55
 7 Q. So you said earlier you weren't 17:41:56
 8 involved in the decision. You didn't have any 17:41:58
 9 involvement in the decision that was made that we've 17:42:04
 10 just shown you the two e-mails about? I mean, were 17:42:07
 11 you involved in that decision, or were you not, 17:42:11
 12 because you seem then to be explaining your 17:42:13
 13 understanding as to how that decision was made? 17:42:16
 14 A. No. I'm telling you what I was 17:42:17
 15 involved in, [REDACTED]
 16 [REDACTED]
 17 [REDACTED]
 18 [REDACTED]
 19 [REDACTED] 17:42:44
 20 Q. Right. And -- and are you aware 17:42:47
 21 of -- of any documents, for example, going to Chris 17:42:49
 22 Morley, setting out the basis on which Chris Morley 17:42:54
 23 can make a decision about -- to kill all the 17:43:01
 24 [REDACTED]
 25 [REDACTED]

Page 364

1 projects for offshore? 17:43:05
2 A. I have no idea what Chris Morley 17:43:06
3 did and didn't have. I have no idea who was in the 17:43:07
4 room when the decisions were made. I don't know. 17:43:11
5 Q. Okay. And just very briefly to 17:43:17
6 finish off, Ms. Lawrence, you indicate -- this is at 17:43:24
7 paragraph 51 of your witness statement -- you 17:43:31
8 describe some research that was done since the 17:43:36
9 moratorium by MNR. Do you see that? Paragraph 51? 17:43:39
10 And you say, first of all -- well, you 17:43:45
11 say: 17:43:50
12 "Since the moratorium, MNR's 17:43:50
13 completed a number of 17:43:51
14 research initiatives within 17:43:52
15 its areas of responsibility 17:43:53
16 that relate to offshore wind 17:43:54
17 development. You say this 17:43:56
18 has included a 2011 workshop 17:43:57
19 facilitated by MNR to help 17:44:00
20 develop guidance on offshore 17:44:01
21 coastal engineering." 17:44:03
22 And do you -- do you know that, in 17:44:04
23 fact, this was a workshop that took place in 2010, 17:44:08
24 not 2011? I'm happy to take you to the documents, 17:44:11
25 if you want, to show that. I'm not -- 17:44:17

Page 366

1 just want to try to correct the record here. At Tab 17:45:40
2 30, sorry, tab -- which tab did I just give you? 17:45:44
3 A. Twenty-nine. 17:45:50
4 Q. Yes, Tab 30, which is C-1092, I 17:45:51
5 think we're still off the feed in case this is 17:46:11
6 confidential. 17:46:14
7 MS. NETTLETON: We are. 17:46:14
8 MR. TERRY: Listen, I don't want to 17:46:16
9 -- as I said, I don't want to belabour. If Canada 17:46:16
10 doesn't have an issue with this, I don't need to 17:46:19
11 continue taking the witness through whether the 17:46:21
12 coastal workshop occurred in 2010 or 2011. I mean, 17:46:24
13 these events took place some time ago. Do you have 17:46:27
14 any reason to disagree as to when it occurred? 17:46:30
15 PRESIDENT: Well, it is in the 17:46:35
16 witness statement, so I think the witness should 17:46:36
17 comment on it, or should be allowed to comment on 17:46:39
18 it. 17:46:43
19 BY MR. TERRY: 17:46:43
20 Q. Certainly. I am just -- 17:46:45
21 A. So this is certainly one that 17:47:05
22 occurred in 2010. 17:47:08
23 Q. Yes. 17:47:10
24 A. I can't say for certain now 17:47:10
25 whether there wasn't another one in 2011, because in 17:47:14

Page 365

1 A. I'm not following, sorry. It says 17:44:22
2 2011. 17:44:25
3 Q. Yes. In fact, this workshop was 17:44:26
4 in 2010, so it was before the moratorium came into 17:44:29
5 effect. And, here, I'll -- 17:44:33
6 A. I can't. 17:44:33
7 Q. -- I'll take you to the -- 17:44:33
8 A. Sure. 17:44:41
9 Q. -- document. If you look at -- if 17:44:42
10 you look at -- there are two documents here, but at 17:44:44
11 Tab 29, which is R-266, and if you look at the very 17:44:48
12 bottom of this e-mail chain, there is some 17:45:01
13 information that's been forwarded about this 17:45:04
14 workshop. And you will see there is a MNR and 17:45:06
15 environment officials with an e-mail dated November 17:45:09
16 12, 2010. 17:45:12
17 And if you flip over to the other -- 17:45:15
18 second page on this, it says: 17:45:18
19 "Ken suggested we e-mail you 17:45:20
20 and send you an invite, et 17:45:22
21 cetera, to the session 17:45:23
22 scheduled for November 23." 17:45:26
23 And this is 2010. And -- and we see 17:45:27
24 this -- similarly, I don't want to belabour this. I 17:45:32
25 am not suggesting that you were being misleading. I 17:45:38

Page 367

1 the 2010/2011 period we were working with a 17:47:20
2 consultant to develop best management practices and 17:47:25
3 advice and recommendations on a coastal engineering 17:47:30
4 study. 17:47:34
5 So I will give you -- certainly agree 17:47:36
6 that there was one in 2010. 17:47:39
7 Q. Okay. And it's fair to say that 17:47:43
8 the evidence shows that a workshop occurred in 2010, 17:47:45
9 which is before the moratorium, and we don't have 17:47:49
10 any evidence in front of us that shows another 17:47:51
11 workshop like that occurring in 2011. 17:47:55
12 A. No. And I think my witness 17:47:57
13 statement talks about completing work in 2011. 17:47:58
14 Q. Okay. So this would be work that 17:48:02
15 had started before the moratorium? 17:48:03
16 A. It did. And it had its genesis on 17:48:05
17 that particular one with the initial posting on the 17:48:08
18 REA which said we were going to develop further 17:48:14
19 guidance for what the coastal engineering studies 17:48:17
20 would look like. 17:48:22
21 Q. And this would be the same with 17:48:23
22 respect to -- in this paragraph you talk about the 17:48:24
23 studies that were done on fish and fish habitat. 17:48:26
24 That also would have been initially commissioned 17:48:29
25 before the moratorium? 17:48:31

1 A. That's correct. And at this point 17:48:32
2 in time, since the moratorium, we hadn't initiated 17:48:35
3 new science. [REDACTED] 17:48:56
4 [REDACTED]
5 [REDACTED]
6 [REDACTED] 17:48:56
7 Q. Right. And are you -- just to 17:48:59
8 finish off this particular paragraph, the other two 17:49:05
9 studies you mention is you talk about the studies 17:49:08
10 include radar migration studies to investigate 17:49:14
11 autumn nighttime bird migration patterns in Lake 17:49:16
12 Ontario and Lake Erie basins. I looked through that 17:49:19
13 document, and I don't see any reference to offshore 17:49:22
14 wind facilities in that document. Is that -- is 17:49:25
15 that a fair reading? 17:49:29
16 A. So I have to confess; I've never 17:49:31
17 read the document. But it was research on wind 17:49:34
18 generally. I don't think we had anything or any 17:49:40
19 information available to us to suggest there were 17:49:43
20 profoundly different characteristics between an on 17:49:48
21 and offshore. And I actually do, myself, remember 17:49:55
22 it as -- as, in part, looking at migratory corridors 17:49:58
23 over the Great Lakes, but not intimately familiar 17:50:07
24 with the contents. 17:50:12
25 Q. Right. You haven't read the 17:50:14

1 paper. Is that fair? 17:50:15
2 A. That's fair. 17:50:20
3 Q. Yes, okay. And also you talk 17:50:21
4 about funding research at the University of Western 17:50:23
5 Ontario on bat migratory habitats. That time that 17:50:24
6 is a master's thesis, a student doing their master's 17:50:28
7 on bat migratory habitats, and that also doesn't 17:50:33
8 have anything -- or I read it again on its face to 17:50:36
9 do with offshore wind, does it? 17:50:38
10 A. Not specifically that I'm aware. 17:50:43
11 Q. Have you read that paper? 17:50:44
12 A. No. 17:50:46
13 Q. Okay. And are you aware, Ms. 17:50:46
14 Lawrence, that Ontario has -- or, sorry, Canada has 17:50:53
15 indicated on behalf of Ontario that it's not 17:50:59
16 planning to conduct any further studies with respect 17:51:02
17 to offshore wind in the -- in the near term to 17:51:07
18 address the areas that were initially set out in its 17:51:17
19 earlier plans, and it says it shouldn't be faulted 17:51:21
20 for not prioritizing this work. Were you aware of 17:51:23
21 that, that Ontario wasn't planning to do any further 17:51:26
22 research in the near term? 17:51:29
23 A. [REDACTED] and I'm 17:51:35
24 [REDACTED], and I'm 17:51:35
25 aware that nobody was getting new resources. So 17:51:39

1 within limited budgets across any number of program 17:51:45
2 and policy areas, we had to prioritize. 17:51:53
3 Q. Okay. It's not a funding 17:51:57
4 priority? 17:51:59
5 A. No, not in the context of all of 17:52:02
6 the other things we work on. 17:52:04
7 Q. Right. And -- and, finally, 17:52:06
8 subject to consultation with my colleagues, there's 17:52:09
9 one other part of your witness statement I'd like to 17:52:15
10 take you to, which is in your second witness 17:52:20
11 statement, paragraph 13, you talk about base land 17:52:22
12 rental fee. 17:52:26
13 A. That's correct. 17:52:27
14 Q. And I just wanted to confirm here 17:52:29
15 that there is a separate part of the Ministry that's 17:52:30
16 responsible for administering base land or separate 17:52:41
17 department or section in the Ministry that is 17:52:43
18 responsible for administering base land rental. 17:52:46
19 A. Yes. 17:52:48
20 Q. And you are not part at all with 17:52:50
21 that -- you are not part of that section? 17:52:52
22 A. Not under my scope. 17:52:54
23 Q. And you are simply passing on in 17:52:56
24 these paragraphs some information that you say was 17:52:59
25 provided to you by someone from that section? 17:53:01

1 A. That's right. 17:53:07
2 Q. And the only witness we have 17:53:09
3 before us in this -- for this proceeding is you from 17:53:18
4 MNR. We don't have your colleague who has -- who 17:53:20
5 deals with base land rental fees. 17:53:24
6 A. No. But I am aware of how they 17:53:27
7 are applied on onshore wind projects. 17:53:29
8 Q. You are aware of that even though 17:53:35
9 you are not involved in the department? 17:53:37
10 A. Well, it was brought to my 17:53:38
11 attention that this is an issue that was at issue 17:53:39
12 between Canada and the Claimant. So I asked myself 17:53:48
13 for a briefing, and I'm assured that in the Crown -- 17:53:54
14 or the onshore option, the base land rent during 17:53:59
15 construction fees is applied to the entirety of the 17:54:05
16 area that is used and under land use permit for the 17:54:11
17 construction of the project. 17:54:16
18 Q. Right. And that's, again, based 17:54:18
19 on information from the individual who is 17:54:21
20 responsible for this department or involved in this 17:54:26
21 department who is not here; correct? 17:54:27
22 A. Or my staff. 17:54:31
23 Q. Okay. 17:54:34
24 A. It doesn't come from me. 17:54:35
25 Q. Correct. And at paragraph 14, you 17:54:37

Page 372

1 also say that: 17:54:40
2 "At the time of Windstream's 17:54:40
3 proposed project, MNR had no 17:54:42
4 formal policy in place for 17:54:44
5 calculating rent for offshore 17:54:46
6 wind projects." 17:54:47
7 Correct? 17:54:48
8 A. That's correct. 17:54:51
9 Q. All right. If you could just hold 17:54:52
10 one moment, I will just consult with my colleagues. 17:54:55
11 --- [Counsel consult.] 17:54:58
12 BY MR. TERRY: 17:55:00
13 Q. I've been shown up by my 17:55:00
14 colleagues here, because I didn't -- I apologize -- 17:55:20
15 read every document I took you to the record. So 17:55:21
16 we're going to just remedy that by quickly reading 17:55:24
17 those into the record. 17:55:26
18 MS. SEERS: I'm open to suggestions as 17:55:33
19 to how else to do this, but absent a better 17:55:37
20 suggestion, I have proposed to read out the tab 17:55:40
21 numbers and the exhibit numbers. 17:55:43
22 PRESIDENT: These are the tab 17:55:44
23 numbers, but we have an index. 17:55:45
24 MS. SEERS: Yes. The other option 17:55:46
25 would be to perhaps mark this index as an exhibit 17:55:47

Page 373

1 itself so that we can cross-reference the tab 17:55:50
2 numbers and the exhibit numbers. 17:55:53
3 PRESIDENT: We don't have an index. 17:55:55
4 MS. SEERS: You do in your binders. 17:55:58
5 PRESIDENT: In the binders? 17:55:59
6 MS. SEERS: Yes. With the transcript. 17:56:01
7 PRESIDENT: One way of doing that 17:56:03
8 would be to actually make the correction in the 17:56:04
9 transcript at the reference. 17:56:06
10 MS. SEERS: Certainly we can do it 17:56:08
11 that way. 17:56:09
12 PRESIDENT: It may be more efficient 17:56:10
13 in terms of time, given where we are now. 17:56:11
14 MS. SEERS: Certainly we will do that. 17:56:14
15 Thank you, Dr. Heiskanen. 17:56:15
16 PRESIDENT: So any questions on 17:56:19
17 redirect? 17:56:20
18 RE-EXAMINATION BY MR. NEUFELD: 17:56:20
19 Q. Thank you. I have a couple of 17:56:33
20 questions. It will be -- be very brief. 17:56:40
21 First of all, you mentioned Ms. Lawrence, that 17:56:42
22 projects undergo due diligence by the OPA. You said 17:56:46
23 that earlier today. I'm just -- I'm curious. Did 17:56:49
24 MNR have any role in the offering of FIT contracts 17:56:52
25 at all? 17:56:55

Page 374

1 A. No, we did not. 17:56:56
2 Q. And did MNR have any interaction 17:56:58
3 with the OPA about how the OPA determined which 17:57:00
4 contracts would be offered? 17:57:03
5 A. I think the nature of the 17:57:06
6 discussions at the staff level that I was aware of 17:57:08
7 only dealt with how to align our processes and 17:57:10
8 procedures. 17:57:15
9 Q. Okay. And have you ever read the 17:57:16
10 FIT application requirements? 17:57:17
11 A. A long time ago. 17:57:20
12 Q. Okay. Second, I'd like to take 17:57:22
13 you to a document. We -- you -- Mr. Terry took you 17:57:24
14 to the letter from -- a letter from you to Mr. 17:57:28
15 Hornung of CanWEA, and I'd like for you to put that 17:57:31
16 into context because it was a response to a letter 17:57:35
17 that you received from him. 17:57:38
18 So, Donnie, if you could call up C-0081, please. 17:57:39
19 PRESIDENT: Is this still 17:57:44
20 confidential? 17:57:50
21 MR. NEUFELD: No, it's not. 17:57:52
22 --- Confidential transcript ends 17:57:53
23 BY MR. NEUFELD: 17:26:27
24 Q. This isn't the right document now. 17:57:58
25 This should be a letter. Maybe it's R-0081, of 17:57:58

Page 375

1 course. 17:58:01
2 So this is a letter -- you recall you had a meeting 17:58:02
3 with CanWEA? 17:58:07
4 A. I did in late October. 17:58:10
5 Q. In late October. Here's the 17:58:12
6 letter here. And it begins -- you can see it on the 17:58:14
7 screen up here. It begins by -- by, you know, 17:58:16
8 thanking you for the meeting on -- on October 28. 17:58:20
9 And this -- this meeting and then this 17:58:24
10 letter, consequently which was given to you close to 17:58:27
11 the same day, I believe, is what you respond to with 17:58:30
12 your letter; correct? 17:58:35
13 A. That is correct. 17:58:37
14 Q. Okay. And can you -- can you give 17:58:38
15 some context around the -- the meeting with CanWEA, 17:58:40
16 please? 17:58:43
17 A. So they sought out the meeting 17:58:46
18 with MNR as a follow-up in seeking clarity on the 17:58:49
19 September 24 Minister Cansfield letter that had gone 17:58:57
20 out to the association and, therefore, all of its 17:59:01
21 members. 17:59:07
22 Q. Okay. And he was, in this letter, 17:59:08
23 raising certain concerns which are spelled out here: 17:59:11
24 (a) transmission capacity; (b) is -- have a look at 17:59:15
25 paragraph (b) there, the REA process alignment. 17:59:18

Page 376

1 A. That's right. So I think the 17:59:23
2 underlying theme of -- of his issues are disagreeing 17:59:24
3 with what our proposal was to align the site release 17:59:30
4 process with the FIT process. 17:59:35
5 Q. Your -- sorry, MNR's process -- 17:59:38
6 A. That's correct. 17:59:40
7 Q. -- as opposed to MOE's or... 17:59:41
8 A. MNR's. 17:59:43
9 Q. MNR's? 17:59:44
10 A. MNR's. So he is telling me that, 17:59:45
11 as a result of our delays -- and we did put a pause 17:59:54
12 on site release while we waited for the GEA 18:00:01
13 regulations to settle in -- nobody made significant 18:00:05
14 milestone progress on work in that regard. And 18:00:20
15 would not be ready or able to take the risk in the 18:00:26
16 FIT program to meet the FIT contract -- 18:00:35
17 Q. And under the -- 18:00:38
18 A. -- deadlines. 18:00:39
19 Q. Under the REA as opposed to the 18:00:40
20 EA. Is that right? 18:00:42
21 A. That's correct. 18:00:43
22 Q. Okay. Can you give a bit of 18:00:44
23 context around the difference between the EA and the 18:00:45
24 REA? 18:00:47
25 A. I would say the Renewable Energy 18:00:52

Page 378

1 react that way? I mean, you said something, but I 18:03:07
2 didn't catch exactly why you were so irritated at 18:03:09
3 that point. 18:03:14
4 THE WITNESS: So I think my head 18:03:15
5 exploded in anger. But after months of working with 18:03:20
6 our colleagues at MOE principally on where we were 18:03:28
7 going to go next on offshore and after many months 18:03:32
8 of telling people that we did not have a scientific 18:03:38
9 rationale to support a setback, the option chosen 18:03:48
10 left us with the responsibility of going out and 18:03:56
11 implementing a setback with no evidence to bring to 18:04:01
12 bear on the conversation. It was an awkward 18:04:07
13 position for our Ministry to be in and quite 18:04:14
14 inconsistent with what we had said all along is our 18:04:18
15 approach is to start with the best information you 18:04:22
16 have and work with the proponent on the site and 18:04:26
17 iterate it that way. 18:04:32
18 DR. CREMADES: Thank you. That's it. 18:04:37
19 PRESIDENT: Thank you. 18:04:40
20 Perhaps just one additional question. It goes to 18:04:41
21 the 2006 moratorium or suspension of offshore wind. 18:04:57
22 What was the reason for it? There was a reference 18:05:06
23 to a particular site. You mentioned it's in the 18:05:09
24 document. We can dig it up, but it doesn't really 18:05:14
25 matter. What was the -- what was the policy reason 18:05:16

Page 377

1 Approval built on and, again, consolidated what MOE 18:00:53
2 would look at in an EA, but gathered other 18:01:01
3 ministries' approval requirements there as well. 18:01:08
4 Q. Then if you could look at 18:01:15
5 paragraph (f) of the same -- the same e-mail. 18:01:16
6 A. I read that as them essentially 18:01:47
7 telling me that nobody who is working on offshore 18:01:50
8 proposals are going to be ready to apply to FIT, 18:01:55
9 because the work's been on pause. 18:01:58
10 Q. Okay. Thank you very much. Those 18:02:01
11 are all of my questions. 18:02:03
12 PRESIDENT: Thank you. Any questions? 18:02:04
13 QUESTIONS FROM THE TRIBUNAL: 18:02:10
14 DR. CREMADES: If you come to Tab 25 18:02:14
15 -- no, 24. 18:02:17
16 MS. NETTLETON: Is this a 18:02:29
17 confidential document? 18:02:30
18 THE WITNESS: I think it is. 18:02:31
19 PRESIDENT: Okay. We will have to go 18:02:37
20 offline. 18:02:39
21 --- Confidential transcript begins 18:02:40
22 DR. CREMADES: I didn't want to 18:02:40
23 interrupt the cross-examination, but could you tell 18:02:51
24 me or tell us something about your reaction, which 18:02:54
25 is very a very bitter reaction? I mean, why did you 18:03:02

Page 379

1 or technical reason for suspending offshore wind 18:05:17
2 development back in 2006? 18:05:21
3 THE WITNESS: So the project was the 18:05:23
4 South Point project that we referenced previously. 18:05:31
5 It became very controversial in the community. A 18:05:36
6 lot of legitimate concerns raised from birds and 18:05:40
7 bats and fisheries' habitat and commercial fishing 18:05:48
8 perspective, but also from the community. The 18:05:53
9 Ministry had very little understanding at the time 18:05:56
10 or had given much thought on the social and economic 18:05:59
11 benefits and impacts of wind. And the Minister took 18:06:04
12 the decision to pause and enable the Ministry to 18:06:08
13 gather more information and knowledge about offshore 18:06:12
14 wind. 18:06:17
15 PRESIDENT: And which Ministry took 18:06:17
16 the decision to suspend at that point in time? 18:06:19
17 THE WITNESS: That is the purview and 18:06:21
18 discretion of the Ministry of Natural Resources. So 18:06:26
19 the MNR Minister of the day would have made that 18:06:30
20 decision, based on a MNR world. 18:06:33
21 PRESIDENT: I understood MNR was 18:06:42
22 dealing more with the site issue. So this was seen 18:06:44
23 mainly as a site issue back in 2006? 18:06:49
24 THE WITNESS: It was. 18:06:53
25 PRESIDENT: And what was the work 18:06:55

Page 380

1 done, then, between 2006 and 2008 that allowed the 18:06:57
2 lifting of the suspension? 18:07:01
3 THE WITNESS: So we had undertaken to 18:07:03
4 do resource assessment and data refinement with our 18:07:09
5 US counterparts. We identified important bird 18:07:18
6 areas, worked with the Canadian Wildlife Service, as 18:07:28
7 well as the Canada -- or Bird Study Canada, which is 18:07:33
8 a nonprofit association that is interested in 18:07:42
9 research on birds, to set up a database that could 18:07:48
10 ultimately be used to inform permitting and monitor 18:07:52
11 impacts over time. 18:07:58
12 We had done mapping of water depths in 18:08:00
13 relation to potential site locations, and I think we 18:08:07
14 had established at that point in 2007 a 18:08:15
15 collaborative relationship with -- by national 18:08:22
16 partners, both regulatory agencies and stakeholders 18:08:28
17 and academics, to begin to share best practices and 18:08:31
18 science and policies and compare notes. 18:08:37
19 PRESIDENT: And this work was mainly 18:08:42
20 related to that particular site that you mentioned, 18:08:49
21 or was it broader? 18:08:53
22 THE WITNESS: This was much broader. 18:08:55
23 I think what the cancellation had drawn to our 18:08:56
24 attention, there were any number of issues that 18:09:02
25 could come up in a more general application of 18:09:08

Page 382

1 MR. TERRY: Sure. My expectation 18:10:13
2 would be to be no longer than half a hour, maximum. 18:10:15
3 I don't anticipate being too long. 18:10:19
4 PRESIDENT: Okay. 18:10:22
5 MR. SPELLISCY: I will confirm with 18:10:22
6 him. 18:10:25
7 PRESIDENT: Okay. Thank you. We 18:10:26
8 have half an hour credit on the parties' side, so we 18:10:26
9 -- we look forward to exhausting that, and we are 18:10:29
10 back on -- back on track. Thank you. 18:10:32
11 --- Confidential transcript ends 18:10:33
12 --- Recess taken at 6:11 p.m. 18:10:34
13 --- Upon resuming at 6:19 p.m. 18:02:49
14 PRESIDENT: Can we go on line? Good 18:11:00
15 afternoon, Mr. Wilkinson, or perhaps good evening. 18:19:22
16 THE WITNESS: Good evening. 18:19:25
17 PRESIDENT: Welcome. Can I just ask 18:19:27
18 you first to state your full name for the record and 18:19:33
19 read the declaration for witnesses of fact that I 18:19:36
20 understand you have in front of you. 18:19:40
21 THE WITNESS: Yes. My name is John 18:19:41
22 David Wilkinson. I solemnly declare, upon my honour 18:19:51
23 and conscience, that, in my evidence before this 18:19:54
24 tribunal, I shall speak the truth, the whole truth, 18:19:58
25 and nothing but the truth. 18:20:00

Page 381

1 offshore wind. So it wasn't site-specific. It was 18:09:13
2 very general across the Great Lakes. 18:09:16
3 PRESIDENT: Okay. Thank you very 18:09:20
4 much. 18:09:21
5 Do these questions give rise to any 18:09:24
6 further questions by counsel? 18:09:26
7 MR. TERRY: Nothing from us. 18:09:29
8 MR. NEUFELD: Nothing from us, no. 18:09:30
9 PRESIDENT: Okay. Thank you very 18:09:32
10 much. Thank you, Ms. Lawrence. 18:09:33
11 THE WITNESS: Thank you. 18:09:34
12 PRESIDENT: That will conclude your 18:09:34
13 examination. Thank you for your time. 18:09:35
14 --- [Witness withdraws.] 18:09:37
15 PRESIDENT: So we are running a bit 18:09:38
16 behind the time, but we understand Mr. Wilkinson is 18:09:42
17 only available today. So let's have a very brief 18:09:44
18 break of five minutes to -- for technical purposes, 18:09:47
19 and then we will continue immediately. Thank you. 18:09:51
20 MR. SPELLISCY: Can I get a sense of 18:09:53
21 how long we think Minister Wilkinson will be? It's 18:09:56
22 6:10 now. You know, he was available during the day 18:10:00
23 today; wasn't supposed to be the last witness even. 18:10:05
24 And so I want to make sure he's available into the 18:10:07
25 evening hours as well. 18:10:10

Page 383

1 AFFIRMED: JOHN DAVID WILKINSON 18:20:01
2 PRESIDENT: Thank you very much. You 18:20:02
3 have submitted one witness statement in this 18:20:04
4 arbitration proceeding dated January 19, 2015. I 18:20:07
5 understand you have that statement also there on the 18:20:12
6 table. 18:20:14
7 THE WITNESS: January 20, yes. 18:20:15
8 PRESIDENT: You confirm this is your 18:20:17
9 statement? 18:20:18
10 THE WITNESS: Yes, it is. 18:20:18
11 PRESIDENT: And do you confirm the 18:20:19
12 contents of the statement? 18:20:21
13 THE WITNESS: Yes. 18:20:22
14 PRESIDENT: Do you have any 18:20:22
15 corrections to make? 18:20:23
16 THE WITNESS: No. 18:20:24
17 PRESIDENT: Thank you. You will be 18:20:25
18 now asked a few questions by counsel for the 18:20:26
19 Respondent, and then there will be a 18:20:30
20 cross-examination by counsel for Claimant. The 18:20:32
21 Tribunal members may ask questions at any time. 18:20:34
22 THE WITNESS: Sure. Thank you. 18:20:37
23 PRESIDENT: Mr. Spelliscy. 18:20:38
24 EXAMINATION-IN-CHIEF BY MR. SPELLISCY: 18:20:39
25 Q. Good evening, Mr. Wilkinson. 18:20:41

Page 384

1 Perhaps for the benefit of the Tribunal, you can 18:20:42
2 provide a little bit of background on -- on your 18:20:44
3 history in the Ontario government and including, 18:20:47
4 most importantly, at the relevant time here, when 18:20:50
5 you became the Minister of the Environment. 18:20:53
6 A. Well, I served at the Ontario 18:20:55
7 Legislature from 2003 to 2011, two terms. My first 18:20:56
8 term, I served as the MPP for the riding of 18:21:01
9 Perth-Middlesex. I was subsequently re-elected to 18:21:04
10 the riding of Perth-Wellington under a 18:21:08
11 redistribution. 18:21:10
12 In my first term of note, perhaps 18:21:11
13 today, is that I served as the parliamentary 18:21:15
14 assistant to the Minister of the Environment here in 18:21:16
15 the Province of Ontario. I subsequently served as 18:21:19
16 the parliamentary assistant to the Minister of 18:21:22
17 Research and Innovation, who was the Premier of 18:21:25
18 Ontario, the Honourable Dalton McGuinty. 18:21:28
19 In 2007, I was re-elected. I was 18:21:30
20 called to executive council to serve as a Cabinet 18:21:32
21 Minister. I was sworn in initially to be the 18:21:35
22 Minister of Research and Innovation. I then 18:21:37
23 subsequently was asked to become the Minister of 18:21:40
24 Revenue, and then I was subsequently appointed to be 18:21:42
25 the Minister of the Environment. 18:21:47

Page 386

1 the Premier's Office was 18:22:59
2 briefed, and it was certainly 18:23:00
3 aware that offshore wind 18:23:01
4 development was a difficult 18:23:02
5 file politically." 18:23:03
6 And that, as you say, you're not 18:23:04
7 making any corrections, that is your evidence here 18:23:06
8 today? 18:23:08
9 A. Yes. I went on, of course, in my 18:23:09
10 statement to say that all the decisions that would 18:23:11
11 be made by the Minister of the Environment, in my 18:23:13
12 opinion, were political, because you had to make 18:23:16
13 decisions, and some people would be happy, and some 18:23:19
14 people would be unhappy. That's just the nature of 18:23:21
15 government. 18:23:23
16 Q. Okay. Now, you -- just to 18:23:24
17 confirm, currently you run a firm called "Wilkinson 18:23:31
18 Insight Incorporated"? 18:23:36
19 A. Yes. That's my personal 18:23:37
20 corporation. As well, as I serve on eight different 18:23:40
21 boards, four charities and four corporations. 18:23:43
22 Q. All right. And prior to being 18:23:46
23 elected to office, you were a financial planner? 18:23:48
24 A. Yes. I believe I was the first 18:23:51
25 certified financial planner ever elected -- I know 18:23:53

Page 385

1 Q. Thank you. 18:21:51
2 A. Welcome. 18:21:53
3 PRESIDENT: Thank you, Mr. Spelliscy. 18:21:55
4 And it will be Mr. Terry. 18:21:56
5 CROSS-EXAMINATION BY MR. TERRY: 18:21:58
6 Q. Good evening, Mr. Wilkinson. 18:22:07
7 A. Good evening. 18:22:09
8 Q. Sorry to have kept you here so 18:22:10
9 long. As you might expect -- and we're trying to 18:22:12
10 keep this very compact given the late hour of the 18:22:21
11 day, but we're most interested in asking you about 18:22:24
12 the part of your witness statement where you say 18:22:29
13 that the Premier's Office did not make or influence 18:22:31
14 the deferral decision. All right? And you have 18:22:34
15 been very emphatic that you made the decision as 18:22:37
16 Minister of the Environment and that you did not 18:22:41
17 discuss the issue of offshore wind development with 18:22:44
18 the Premier or seek his counsel before you made the 18:22:46
19 deferral decision, and: 18:22:49
20 "He did not attempt to 18:22:50
21 influence my decision in any 18:22:52
22 way, nor do I recall having 18:22:53
23 any personal communication 18:22:55
24 from the Premier's Office 18:22:56
25 about the issue. However, 18:22:57

Page 387

1 to the Ontario legislature -- perhaps in Canada. So 18:23:56
2 my old profession was very proud of me, and I 18:23:59
3 started a firm. 18:24:01
4 Q. Congratulations. 18:24:02
5 A. So I was in business for 20 years 18:24:03
6 before I -- I ended up serving in an elected 18:24:05
7 capacity. 18:24:07
8 Q. All right. Now, the events we're 18:24:08
9 discussing occurred some five years ago. And, 18:24:10
10 listen, I appreciate that five years is a long time, 18:24:15
11 and it's difficult to remember particular dates and 18:24:18
12 events that occurred five years ago, particularly if 18:24:21
13 you have a number of Ministerial responsibilities. 18:24:26
14 A. Yes. I can tell you that when -- 18:24:29
15 that I distinctly remember every decision that I 18:24:33
16 made as the Minister that was controversial and 18:24:37
17 historic. I made a number of them during my tenure, 18:24:42
18 which Ministers of the Environment have to do, and I 18:24:44
19 remember this one distinctly, and I remember exactly 18:24:47
20 what happened. 18:24:49
21 Q. And you -- in your witness 18:24:51
22 statement, you have referred to various documents 18:24:57
23 and footnotes. I understand -- I take it you 18:24:59
24 reviewed all of those documents before you prepared 18:25:03
25 your witness statement? 18:25:05

1 [REDACTED]
2 [REDACTED]
3 [REDACTED]
4 [REDACTED]
5 [REDACTED]
6 [REDACTED]
7 [REDACTED]
8 [REDACTED]
9 [REDACTED]
10 [REDACTED]
11 [REDACTED]
12 [REDACTED]
13 [REDACTED]
14 [REDACTED]
15 [REDACTED]
16 [REDACTED]
17 [REDACTED]
18 [REDACTED]
19 [REDACTED]
20 [REDACTED]
21 [REDACTED]
22 [REDACTED]
23 [REDACTED]
24 [REDACTED]
25 [REDACTED]

18:30:06

Q. Okay. Now, this is a document, 18:30:06
you will see at the time, that is -- we've got a 18:30:07
Minister of the Environment official -- you know 18:30:13
what the ENE means, presumably, there -- Marcia 18:30:13
Wallace, and she's talking about the fact there's 18:30:18
follow-up with the Minister's Office. 18:30:20
A. This is from Pearl Ing to Marcia 18:30:21
Wallace. This is not -- 18:30:22
Q. From Pearl Ing to Marcia Wallace, 18:30:24
and then it's from Marcia Wallace to Paul Evans, 18:30:26

1 who, as you will recall, was the -- 18:30:28
2 A. Assistant Deputy Minister. 18:30:30
3 Q. -- was an ADM at the time? 18:30:30
4 A. Yep. 18:30:32
5 Q. Energy. And then -- and you see 18:30:33
6 follow-up from the ADM meeting that our bosses were 18:30:36
7 on is the top line here: 18:30:40
8 "We now know that our MO 18:30:42
9 doesn't support Option 2." 18:30:43
10 And, presumably, "MO" would be 18:30:45
11 referring to your office? 18:30:47
12 A. Yes. "MO" is Minister's Office, 18:30:48
13 yes. 18:30:50
14 Q. Right. And then if we go to -- so 18:30:50
15 there's a discussion of these options among the 18:30:52
16 various ministries, as you have indicated. 18:30:54
17 We go to the next page. 18:30:56
18 PRESIDENT: Clarify for the record, 18:30:58
19 ADM means Assistant Deputy Minister? 18:31:01
20 MR. TERRY: That's right. 18:31:02
21 THE WITNESS: Yes. 18:31:03
22 BY MR. TERRY: 18:31:04
23 Q. The next page, Tab 2, is R-553. 18:31:04
24 A. Right. 18:31:08
25 Q. And you'll see there is a meeting 18:31:08

1 being set up here. And the meetings are with -- 18:31:09
2 A. A week later, yes. 18:31:13
3 Q. So this is January 24. So there's 18:31:14
4 been some correspondence. There is a meeting that's 18:31:16
5 set up. And you see the Ministers to attend are 18:31:18
6 Minister Gerretsen, Jeffrey, and Wilkinson, 18:31:20
7 yourself, and also Brad Duguid is invited. See 18:31:24
8 that? 18:31:27
9 A. Yes, yes. 18:31:27
10 Q. And Minister Jeffrey was MNR? 18:31:29
11 A. Yes. 18:31:33
12 Q. You were Environment, and Mr. 18:31:33
13 Duguid was Energy? 18:31:35
14 A. Yes. And Minister Gerretsen was 18:31:36
15 Government Services. 18:31:38
16 Q. Was government Services. And I 18:31:40
17 understand he was involved -- well, I understand he 18:31:41
18 had previously been Minister of Environment? 18:31:44
19 A. He was my predecessor, yes. 18:31:46
20 Q. Right. And he was also involved 18:31:47
21 because the Windstream project was offshore in the 18:31:50
22 vicinity of his riding. Is that fair to say? 18:31:55
23 A. Yes, yes it is. 18:31:57
24 Q. Yes. So that is why he was 18:31:59
25 brought in? 18:32:00

1 A. Well, I -- I don't know why he was 18:32:01
2 brought in. 18:32:02
3 Q. Okay. Anyway, a meeting was set 18:32:03
4 up? 18:32:05
5 A. Yes. 18:32:05
6 Q. And it was attended. Do you have 18:32:06
7 a recollection of that meeting? 18:32:10
8 A. No, Mr. Terry. I -- there was a 18:32:13
9 conversation. I don't actually remember us all 18:32:15
10 getting in the room. 18:32:17
11 Q. Right. 18:32:18
12 A. There was a -- there was a need. 18:32:18
13 Because the decision that I had made was a change 18:32:22
14 for the path that the government was on, it was 18:32:25
15 important, before it became announced, that 18:32:27
16 everybody in the government knew where we were 18:32:30
17 going, and so it was a matter of getting people 18:32:32
18 coordinated. And, again, any decision made by the 18:32:36
19 Minister of the Environment makes some people happy 18:32:39
20 and some people unhappy. 18:32:41
21 Q. Right. 18:32:42
22 A. The government tries to get 18:32:43
23 everybody on the same page, if at all possible. 18:32:44
24 Q. Right. So I'm focusing here on 18:32:47
25 all the e-mails I see in the record which talk about 18:32:50

1 you, as the Minister, meeting with other Ministers 18:32:53
 2 to talk about this issue. And that's why I am 18:32:55
 3 focusing on January 24th. 18:32:56
 4 So you are saying you don't have a specific 18:32:58
 5 recollection, but do you recall at all a 18:33:00
 6 discussion -- this is about what to do with 18:33:02
 7 Windstream. I outlined the three options. Do you 18:33:04
 8 remember that discussion? 18:33:06
 9 A. No. What I remember is not 18:33:08
 10 everybody being in the room. There was a series of 18:33:09
 11 telephone calls after Cabinet. I think they were 18:33:11
 12 trying to have this meeting after cabinet, and they 18:33:16
 13 couldn't get everybody in the same room because, I 18:33:18
 14 think, one of the Ministers had to get off in his 18:33:19
 15 car and take off to some other event that was 18:33:22
 16 already scheduled. 18:33:25
 17 Q. Right. Okay. So there's -- so we 18:33:26
 18 see the aftermath of the discussion here. If you 18:33:28
 19 could look at the e-mail at -- this is C-942. 18:33:30
 20 A. Okay. 18:33:35
 21 Q. And we see a discussion here at 18:33:36
 22 the bottom: 18:33:37
 23 "Proceed with the 18:33:38
 24 moratorium." 18:33:41
 25 And then Windstream: 18:33:41

1 "Allow the project to 18:33:43
 2 proceed." 18:33:45
 3 And as you go up here, you see -- I 18:33:45
 4 understand Brenda Lucas was your -- 18:33:50
 5 A. Senior policy adviser. 18:33:52
 6 Q. -- senior policy adviser. And she 18:33:53
 7 says: 18:33:53
 8 [REDACTED] 18:33:56
 9 [REDACTED]
 10 [REDACTED]
 11 [REDACTED]
 12 [REDACTED]
 13 [REDACTED]
 14 [REDACTED]
 15 [REDACTED]
 16 [REDACTED] You were concerned 18:34:04
 17 about -- you said you were concerned about drinking 18:34:06
 18 water issues in eastern Lake Ontario. 18:34:09
 19 [REDACTED]
 20 [REDACTED]
 21 [REDACTED]
 22 [REDACTED]
 23 [REDACTED]
 24 [REDACTED]
 25 [REDACTED]

1 science. 18:34:34
 2 I subsequently went with my Deputy 18:34:35
 3 Minister, who, when I asked her direct questions, 18:34:36
 4 raised within me some very serious concerns about 18:34:42
 5 whether or not the precautionary principle, which is 18:34:45
 6 another fundamental part of environmental law, was 18:34:47
 7 being upheld. 18:34:51
 8 And when I was faced with that, from my senior 18:34:52
 9 policy adviser, [REDACTED] 18:34:55
 10 science and that, for my Deputy Minister, the chief 18:34:58
 11 person, that she could not answer basic questions 18:35:00
 12 about the consequence of the construction in regard 18:35:02
 13 to -- in regard to drinking water, because of course 18:35:05
 14 the Great Lakes are a source of drinking water for 18:35:08
 15 millions of people, and we were talking about a set 18:35:10
 16 of regulations for the entire Great Lakes, not for 18:35:13
 17 any particular place, but trying to get the 18:35:16
 18 regulations right for what we were trying to do. 18:35:18
 19 And because those questions weren't answered, I 18:35:20
 20 felt, and it was -- I was the only guy that could 18:35:23
 21 make that decision under the law. I felt that we 18:35:26
 22 should not proceed on a path that I thought was -- 18:35:28
 23 was flawed. 18:35:32
 24 Q. And then that's why -- and this is 18:35:32
 25 a question I had asked you about, why you had the 18:35:36

1 reservations there. That's why you had those 18:35:39
 2 reservations. Is that fair to say? In your 18:35:41
 3 meetings with those Ministers, that's the type of 18:35:43
 4 sentiment you were expressing? 18:35:45
 5 A. Well, yes. I think the Ministry 18:35:46
 6 of Energy, which had granted a FIT contract, right, 18:35:48
 7 wanted to know whether or not that project could go 18:35:52
 8 ahead as a pilot. 18:35:55
 9 Q. Right. 18:35:56
 10 A. And I said, no, that [REDACTED] 18:36:02
 11 [REDACTED]
 12 [REDACTED]
 13 Q. Right. And that's what we see in 18:36:04
 14 this debate. I am focusing again, sir, on the 18:36:06
 15 documents. You know, you talk about discussions, 18:36:09
 16 briefings, discussions with the Deputy Minister. We 18:36:11
 17 don't, in the documents, see those records. I'm 18:36:14
 18 focusing on the records that show you and your staff 18:36:16
 19 involved in making these decisions. All right? And 18:36:21
 20 so that's why I am focusing you on this record -- 18:36:24
 21 A. Sure. 18:36:26
 22 Q. -- in January 24. Okay? Now, if 18:36:27
 23 we move -- so we've got your reservations as to 18:36:29
 24 what's being decided here. Then we move to the next 18:36:33
 25 document, which is R-555. And, again, we see a 18:36:36

1 concern here. Sean Hamilton, he's in your office; 18:36:40
2 right? Minister's Office. 18:36:44
3 A. He's my Chief of Staff, 18:36:45
4 absolutely. 18:36:46
5 Q. Chief of Staff. He's saying: 18:36:46
6 [REDACTED]
7 [REDACTED]
8 [REDACTED]
9 [REDACTED]
10 [REDACTED]
11 [REDACTED]
12 [REDACTED]
13 [REDACTED]
14 Q. And then we see in the next 18:36:57
15 document -- so this is January 28. 18:36:59
16 A. Number 5 now, 959? 18:37:01
17 Q. This is Tab 5, and it's C-959? 18:37:04
18 A. Yes. 18:37:07
19 Q. And you will see here, if you 18:37:08
20 start from the bottom, the second page here, this is 18:37:11
21 Sean Hamilton, the individual we saw from your 18:37:15
22 office: 18:37:18
23 "Understand there is an issue 18:37:19
24 to get back to people on. 18:37:21
25 We'll have a full note 18:37:23

1 tomorrow." 18:37:24
2 But there's, basically, they're 18:37:24
3 saying: 18:37:27
4 [REDACTED]

1 [REDACTED]
2 [REDACTED]
3 [REDACTED]
4 [REDACTED]
5 [REDACTED]
6 [REDACTED]
7 [REDACTED]
8 Q. Right. And then in the next -- at 18:38:18
9 C-986, we see a discussion, which I understand 18:38:22
10 reflects -- and there is some colourful language 18:38:27
11 here which we don't need to get into, but I 18:38:30
12 understand it reflects a caucus discussion where 18:38:33
13 there is a discussion about the decision, the 18:38:36
14 moratorium and the pilot, and there were strong 18:38:40
15 words among your colleagues. 18:38:43
16 A. Well, I said decisions made by the 18:38:45
17 Minister of Environment make some people happy and 18:38:47
18 some people unhappy. 18:38:50
19 Q. Yes. 18:38:51
20 A. The question is: Do you make your 18:38:51
21 decisions based on the principles that you are sworn 18:38:53
22 to uphold? That's the question. And what staff 18:38:55
23 say, staff say. 18:39:02
24 Q. You say in terms of describing the 18:39:07
25 things that influence your decision here, if we go 18:39:09

1 to your witness statement, paragraph 10 -- 18:39:11
2 A. Okay. So I can go to this -- 18:39:14
3 Q. Yeah. That's the red book in 18:39:15
4 front of you. 18:39:17
5 A. Great. And they're numbered? 18:39:18
6 Q. Paragraph 10? 18:39:20
7 A. Oh, yes, great. Got it. 18:39:20
8 Q. You say that -- you say you were 18:39:22
9 briefed on many environmental concerns, and, sir, I 18:39:26
10 just want you to agree with me here. I don't want a 18:39:28
11 long elaboration. 18:39:31
12 "The issue that heavily 18:39:31
13 influenced my decision was 18:39:34
14 the effect the construction 18:39:35
15 of an offshore wind facility 18:39:35
16 might have on drinking 18:39:37
17 water." 18:39:38
18 Then you say: 18:39:38
19 "The construction of turbine 18:39:39
20 towers for the WWIS project 18:39:40
21 would stir up the lake bed at 18:39:41
22 over 100 sites in Lake 18:39:43
23 Ontario. I was concerned 18:39:44
24 with how this might effect 18:39:47
25 sediment. And when I asked 18:39:49

Page 404

1 my Ministry officials about 18:39:50
2 it --" 18:39:51
3 So presumably there you are talking 18:39:51
4 about the Windstream project; right? 18:39:53
5 A. The Deputy, yes. No, no. This is 18:39:54
6 my recollection of having my meeting with the Deputy 18:39:58
7 Minister and asking her specific questions about 18:40:01
8 whether or not we were applying the precautionary 18:40:06
9 principle. 18:40:07
10 Q. Well, sir, just go up a little bit 18:40:09
11 in your witness statement. You are talking about: 18:40:11
12 "The construction of turbine 18:40:12
13 towers for the WWIS project 18:40:14
14 would stir up the lake bed at 18:40:16
15 over 100 sites in Lake 18:40:17
16 Ontario. I was concerned 18:40:19
17 about how this might displace 18:40:19
18 the historically contaminated 18:40:21
19 sediment, et cetera. When 18:40:22
20 asked about it, Ministry 18:40:24
21 officials couldn't assure 18:40:25
22 me." 18:40:26
23 You are talking about the Windstream 18:40:26
24 project there, aren't you, clearly? 18:40:28
25 A. No. Because I also testified in 18:40:29

Page 405

1 paragraph 11, Mr. Terry, that particularly we had no 18:40:30
2 data on the impacts of large-scale offshore 18:40:36
3 construction in the Great Lakes, which was a concern 18:40:39
4 for Lake Ontario, but also for Lakes Erie and Huron. 18:40:40
5 I wasn't asked to have a set of rules for Lake 18:40:43
6 Ontario or for the eastern basin of Lake Ontario. 18:40:45
7 The Ministry was developing rules for all of the 18:40:49
8 Great Lakes, and I was particularly concerned that, 18:40:51
9 if I had a process, that it had to be applied based 18:40:53
10 on science and the precautionary principle for all 18:40:57
11 the Great Lakes. That was what was in front of me. 18:41:00
12 Yes, I know that Windstream had a FIT 18:41:03
13 contract, and that would be a consequence to my 18:41:07
14 decision. But -- and I -- but what was important to 18:41:10
15 me was I had been told by my Ministry that we had 18:41:14
16 regulations out there for consultation where it was 18:41:18
17 insufficient scientific evidence, because this had 18:41:21
18 never been done before at that scale anywhere in the 18:41:23
19 world. That it was a source of drinking water. And 18:41:25
20 when I asked my Deputy, "How do we know that these 18:41:29
21 consequences won't happen?" She said, "Well, we 18:41:33
22 don't." And I found that very, very disturbing, 18:41:34
23 which is why I took the action I took. 18:41:38
24 Q. And I'm not disagreeing with you 18:41:40
25 your statements as to what you recollect about being 18:41:41

Page 406

1 concerned about drinking water, sir. I'm simply 18:41:44
2 trying to remind you with the documents as to when 18:41:47
3 this was taking place. And, sir, if you look, for 18:41:50
4 example, at paragraph 13 -- 18:41:53
5 A. Yes. 18:41:54
6 Q. -- you say: 18:41:55
7 "I was made aware that only 18:41:57
8 one freshwater offshore wind 18:41:59
9 project existed anywhere in 18:42:01
10 the world." 18:42:02
11 A. Yes, that's what I was told. 18:42:02
12 Q. (Reading): 18:42:03
13 "In contrast to the massive 18:42:03
14 project proposed for Wolfe 18:42:05
15 Island Shoals, the project 18:42:05
16 was a small-scale facility. 18:42:08
17 The development and 18:42:09
18 construction of a pilot scale 18:42:10
19 project was simply 18:42:11
20 insufficient to extrapolate 18:42:12
21 answers to basic questions I 18:42:14
22 had." 18:42:16
23 And then if we -- if continue on to 18:42:17
24 paragraph 17: 18:42:21
25 "I understand at that time 18:42:21

Page 407

1 that Windstream expressed 18:42:23
2 interest in doing a pilot, 18:42:24
3 but that its idea of a pilot 18:42:26
4 was to move forward with 18:42:27
5 their original project plan 18:42:28
6 or project of that size was 18:42:29
7 not acceptable to proceed as 18:42:32
8 a pilot." 18:42:33
9 And listen, as I say, I'm not 18:42:34
10 disagreeing what you are saying about the concerns 18:42:36
11 that you might have in approving the pilot and their 18:42:37
12 effects on the Great Lakes. I'm just trying to help 18:42:39
13 you recollect that this was occurring as a result of 18:42:42
14 your discussion about Windstream going ahead as a 18:42:47
15 pilot. 18:42:49
16 A. Mr. Terry, I want to be very, very 18:42:50
17 clear. You are talking about me having some say 18:42:52
18 about the regulatory approval of a pilot. The 18:42:57
19 regulations themselves were still not finished. 18:43:00
20 That was in front of my Ministry. The feedback that 18:43:03
21 I got from my senior adviser and my Deputy Minister 18:43:07
22 raised concerns with me about that regulatory 18:43:11
23 process. I agree it affected Windstream. But the 18:43:14
24 idea that somehow I was negotiating a pilot, there 18:43:16
25 could be no pilot without a regulatory framework 18:43:20

Page 408

1 which had not been completed. 18:43:22
2 Q. And, sir, maybe you are 18:43:24
3 misunderstanding me. I'm not saying you were 18:43:25
4 negotiating a pilot. I'm just saying your 18:43:28
5 recollection of these discussions was in the latter 18:43:30
6 part of January, when you were having these very 18:43:32
7 heated discussions with your colleagues about 18:43:34
8 whether to allow Windstream to go ahead as a pilot 18:43:36
9 or whether to keep it whole. Isn't that -- that's 18:43:38
10 what I'm -- that's what I'm getting at. 18:43:41
11 A. The question is my position was 18:43:43
12 that the only way to move forward was based on 18:43:44
13 science. So obviously, as long as you are taking 18:43:47
14 into account the precautionary principle, you would 18:43:49
15 have to allow research and pilots -- 18:43:50
16 Q. But, sir, sir -- and I apologize 18:43:54
17 to interrupt. My question is -- is not, you know, 18:43:55
18 what was in your concerns there. It's just a timing 18:44:00
19 question. 18:44:04
20 I mean, do you agree with me that 18:44:04
21 these were issues that were being discussed by you 18:44:05
22 in late January. I took you to the meeting at 18:44:08
23 January 24. I took you through the process there, 18:44:11
24 January 28, where the decision appears to have been 18:44:13
25 accepted because you didn't want to have the pilot. 18:44:19

Page 409

1 And it's simply a yes or no. Do you 18:44:22
2 recollect -- is it fair to say that these 18:44:25
3 discussions occurred during that time period? 18:44:27
4 A. It is fair to say that discussions 18:44:29
5 happened. It is also fair to say that the decision 18:44:32
6 was made by me, about two weeks before that. All 18:44:35
7 the government was doing and what these people were 18:44:39
8 doing was trying to figure out the consequence of 18:44:42
9 the decision made by the Minister of the 18:44:43
10 Environment, who would not change his mind. 18:44:44
11 Q. Okay. Well, let's go to that 18:44:47
12 decision, then. Before that, are there -- you said 18:44:49
13 you reviewed, you know, 1,500 documents or whatever 18:44:52
14 it was. Did you ever find -- 18:44:56
15 A. I didn't say that, Mr. Terry. 18:44:56
16 What I said is, I was given them, and that I did not 18:44:58
17 go and read 15,000 pages of documents. 18:45:01
18 Q. Listen, I can assure you that, for 18:45:04
19 better or worse, we've read these documents, and I'm 18:45:06
20 sorry -- and, sir, I don't see any documents that 18:45:08
21 show your discussions with your Deputy Minister. 18:45:11
22 MR. SPELLISCY: Is that testimony, or is that a 18:45:13
23 question? 18:45:17
24 MR. TERRY: That's a question. 18:45:17
25 MR. SPELLISCY: Okay. 18:45:18

Page 410

1 BY MR. TERRY: 18:45:19
2 Q. Is the witness -- are you aware of 18:45:19
3 any documents that show this discussion you are 18:45:21
4 referring to with your Deputy Minister? 18:45:23
5 A. No. I'm not aware of any 18:45:27
6 documents. I haven't seen any. But I met with my 18:45:29
7 Deputy. I remember distinctly why I met with my 18:45:32
8 Deputy, what the meeting was about, why I called the 18:45:35
9 meeting, and what was the consequence of that 18:45:37
10 meeting. 18:45:39
11 Q. And do you -- do you have any 18:45:39
12 documents -- you talked about also briefings with 18:45:42
13 your staff with respect to drinking water issues. 18:45:45
14 Do you have any documents, or are you aware of any 18:45:47
15 documents, sir, that show that you were being 18:45:50
16 briefed by your staff on drinking water related 18:45:53
17 issues? 18:45:56
18 A. Well, what I'm -- 18:45:57
19 Q. I'm simply asking about documents, 18:45:58
20 sir. 18:46:01
21 A. Okay. I received a briefing memo 18:46:01
22 from my senior policy adviser around January 6 that 18:46:04
23 went into my daily book that I had to read that told 18:46:08
24 me that there were discussions going on about 18:46:13
25 [REDACTED] 18:46:18

Page 411

1 [REDACTED] 18:46:25
2 [REDACTED] 18:46:25
3 [REDACTED] 18:46:25
4 And so that was a very, very big red 18:46:29
5 flag for me, Mr. Terry. 18:46:32
6 Q. Okay. 18:46:33
7 A. And what I did, just so we're 18:46:33
8 clear, is that I went to my Chief of Staff and said, 18:46:34
9 "I need to speak to my Deputy Minister." Something 18:46:37
10 I didn't do very often, but I thought it was very 18:46:39
11 important, given the consequence, sir, or the -- 18:46:40
12 or red flag that I saw from Mrs. Lucas, that I 18:46:42
13 needed to talk to my deputy, who I had a great deal 18:46:42
14 of confidence in, a scientist and come from Ministry 18:46:45
15 of Natural Resources. 18:46:45
16 18:46:47
17 18:46:49
18 18:46:51
19 18:46:52
20 18:46:55
21 18:46:55
22 And I had her in and -- at my side of the Ministry, 18:46:55
23 and I asked her a number of questions, and we went 18:47:00
24 over them, and there was one set of questions around 18:47:02
25 drinking water, to which she said they did not know, 18:47:05

1 and I found that to be disturbing, and I made a 18:47:07
2 decision. 18:47:11
3 Q. Okay. Now, sir, I'm going to take 18:47:11
4 you through the record that we have as to how the 18:47:14
5 decision was made, and I'm going to be very 18:47:16
6 interested to see what you can point out in terms of 18:47:18
7 how you made the decision, any communications 18:47:22
8 between your Minister's office staff and those 18:47:25
9 involved in making the decision. 18:47:30
10 And we can start, and this is a period -- you 18:47:31
11 mentioned the January 6th letter. 18:47:35
12 A. Yes. 18:47:38
13 Q. So let's go to Tab 7, which is at 18:47:38
14 R-199. And, sir, is this the policy proposal that 18:47:42
15 you were concerned about? 18:47:48
16 A. Okay. So let's back up. So this 18:47:53
17 is not from my Ministry. It's from the Ministry of 18:47:55
18 Energy. 18:47:59
19 Q. Just to speed things up, this is 18:47:59
20 the Ministry of Energy. 18:48:01
21 A. Right. 18:48:03
22 Q. This is a proposal that's going 18:48:03
23 forward. It's been discussed in, among other 18:48:04
24 places, in energy issues group that involves 18:48:08
25 Premier's Office, Ministry of Energy and sometimes 18:48:11

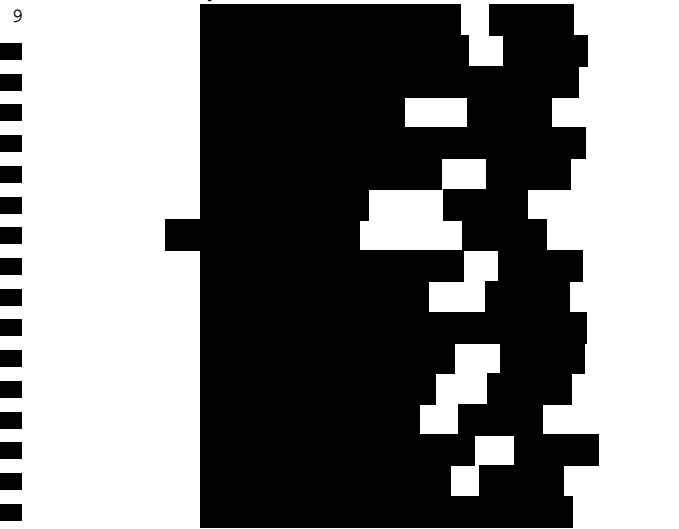
1 other ministries. 18:48:33
2 [REDACTED]
3 [REDACTED]
4 [REDACTED]
5 [REDACTED]
6 [REDACTED]
7 [REDACTED]
8 [REDACTED]
9 [REDACTED]
10 Q. All right. Now, let's go to the 18:48:33
11 document that I'm sure you were referring to, sir, 18:48:35
12 which is at Tab 8. This is document C-900. 18:48:38
13 A. Yes. 18:48:42
14 Q. And is this the briefing note you 18:48:44
15 are referring to from Ms. Lucas? 18:48:45
16 A. Yes, this is the one I got. 18:48:47
17 Q. And, sir, this is the only 18:48:48
18 document -- the only document that we have, I can -- 18:48:50
19 well, to avoid the objection from my friend, are you 18:48:53
20 aware of any other document in the record that shows 18:48:56
21 a briefing from your Ministry officials to you with 18:49:00
22 respect to this offshore wind issue. I'm talking 18:49:05
23 about Brenda Lucas or anyone else in your -- in your 18:49:08
24 -- in your office. 18:49:12
25 A. I'm not aware of any other 18:49:14

1 document. 18:49:15
2 Q. Okay. Now, if I look at this 18:49:16
3 document, sir, this is a -- this is a document that 18:49:19
4 is discussing the particular policy proposal that I 18:49:22
5 just showed you; correct? 18:49:28
6 A. Yes. Yes. 18:49:29
7 [REDACTED]

1 [REDACTED]
2 [REDACTED]
3 [REDACTED]
4 [REDACTED]
5 [REDACTED]
6 [REDACTED]
7 [REDACTED]
8 [REDACTED]
9 [REDACTED]
10 [REDACTED]
11 [REDACTED]
12 [REDACTED]
13 [REDACTED]
14 [REDACTED]
15 [REDACTED]
16 [REDACTED]
17 [REDACTED]
18 [REDACTED]
19 [REDACTED]
20 [REDACTED]
21 [REDACTED]
22 [REDACTED]
23 [REDACTED]
24 [REDACTED] 18:50:54
25 So there are issues, and, listen, I 18:50:57
want to be fair to you. Your official -- and your 18:50:58

1 Minister's Office is identifying these concerns. 18:51:03
 2 Now, she indicated, as you saw, that 18:51:06
 3 she is going to discuss this -- make sure the 18:51:11
 4 Ministry is fully engaged. And when she says that 18:51:14
 5 -- this is going back to the first page. 18:51:16
 6 A. Mm-hmm. 18:51:18
 7 Q. She wants to make sure the 18:51:19
 8 Ministry is fully engaged. If you turn to the next 18:51:21
 9 tab, that's Tab 9, C-903, you see that this is a -- 18:51:24
 10 this is a comment -- this is Marcia Wallace. Do you 18:51:29
 11 recall who she was? 18:51:32
 12 A. Yes. She works for the Ministry. 18:51:33
 13 Q. Right. And do you recall her 18:51:35
 14 role? 18:51:37
 15 A. Well, I know Doris was Renewable 18:51:38
 16 Energy Approval, Doris Dumais, Marcia was with her. 18:51:40
 17 Q. Right. 18:51:44
 18 A. I can't remember who was on top, 18:51:44
 19 but they were together. 18:51:45
 20 Q. And she was essentially developing 18:51:46
 21 policy for the Ministry on offshore wind. Do you 18:51:48
 22 recall that? Or on -- 18:51:50
 23 A. She was on this file. 18:51:53
 24 Q. On renewable energy issues; right? 18:51:55
 25 A. Yes. She was on this file. 18:51:56

1 Q. Okay. 18:51:57
 2 A. And we were doing other renewable 18:51:57
 3 energy, solar and -- and onshore wind. It wasn't 18:51:59
 4 just this. 18:52:01
 5 Q. Okay. So she -- she looks at this 18:52:02
 6 and she says -- gave it a quick review. Thanks for 18:52:03
 7 the opportunity. And she then comments on the 18:52:06
 8 slide. She says, Slide 4: 18:52:09



1 [Redacted] 18:53:19
 2 [Redacted]
 3 [Redacted]
 4 [Redacted]
 5 [Redacted]
 6 [Redacted]
 7 [Redacted]
 8 [Redacted]
 9 [Redacted]
 10 [Redacted]
 11 [Redacted]
 12 [Redacted]
 13 [Redacted]
 14 [Redacted]
 15 [Redacted]
 16 [Redacted]
 17 [Redacted]
 18 [Redacted]
 19 [Redacted]
 20 [Redacted]
 21 [Redacted]
 22 [Redacted]
 23 So these are the comments that -- that 18:53:20
 24 Ms. Wallace makes on this proposal. I don't know if 18:53:22
 25 you have seen these before. 18:53:26

1 A. Okay. 18:53:28
 2 MR. SPELLISCY: Since we moved very 18:53:28
 3 quickly between documents and I don't think counsel 18:53:30
 4 actually introduced this document, it might be 18:53:32
 5 useful to note what this document is and who the 18:53:34
 6 comments are and what time it is for the record. 18:53:36
 7 THE WITNESS: Yeah. 18:53:41
 8 MR. TERRY: This is January 5. 18:53:42
 9 MR. SPELLISCY: 6th. 18:53:45
 10 BY MR. TERRY: 18:53:46
 11 Q. Sorry, 6th. 18:53:47
 12 A. In the morning. 18:53:48
 13 Q. Yes. This is January -- this is 18:53:50
 14 January 6, in the morning. I have no issue with 18:53:51
 15 that. But these are the comments -- again, I'm 18:53:54
 16 working with what we have in the record. These are 18:53:57
 17 the only comments we have from the Ministry official 18:54:00
 18 commenting on this proposal. 18:54:03
 19 A. And I would have seen -- just for 18:54:05
 20 clarity, on the January 6 memo, I would have seen it 18:54:06
 21 that evening, not that morning. It would have gone 18:54:10
 22 into my book that I get every day, signed off by my 18:54:12
 23 Chief of Staff, the things that I needed to read 18:54:14
 24 that night. 18:54:17
 25 Q. Okay. Now, if we turn, then, to 18:54:17

Page 420

1 the next page, and I expect, sir, you have seen this 18:54:20
2 document. Is that correct? C-911? 18:54:24
3 A. That's at Tab 10? 18:54:26
4 Q. Yes. 18:54:27
5 A. Yes, okay. 18:54:28
6 Q. Tab 10. Have you seen this 18:54:29
7 document? 18:54:31
8 A. Yes, I believe so. 18:54:34
9 Q. I assume it was -- it was produced 18:54:36
10 to us late, but I assume it was shared by you with 18:54:37
11 counsel for the other side? 18:54:40
12 A. Yes. I have seen this now that I 18:54:42
13 have taken a look at it, yes, from Mr. Chris Morley. 18:54:44
14 Q. Yes. And you see here that there 18:54:47
15 is a communications plan attached to this? 18:54:51
16 A. Yeah. A draft press release. 18:54:57
17 Q. Right. 18:54:59
18 A. Yes. Okay. 18:55:00
19 Q. And the draft press release is, 18:55:00
20 again, consistent with the recommended option in the 18:55:02
21 policy document that I showed to you earlier. Do 18:55:06
22 you see that, if you look at the second paragraph? 18:55:10
23 A. Okay. Sorry, can you just run 18:55:13
24 that by me again? 18:55:15
25 Q. Look at the news release, please, 18:55:16

Page 422

1 because I want to finish this chronology -- 18:56:01
2 MR. SPELLISCY: I really hate to 18:56:04
3 interrupt, and I apologize for this. I just have 18:56:06
4 one question. I'm not sure if it was a mistake. 18:56:08
5 The record says about "this document." I think the 18:56:10
6 question was, I assume it was produced to -- I 18:56:13
7 assume it was produced to us late, but I assume it 18:56:16
8 was shared by you with counsel. 18:56:19
9 MR. TERRY: It should -- if I 18:56:21
10 misspoke, I'm not sure if it was me or the 18:56:22
11 recording. 18:56:24
12 MR. SPELLISCY: The other way around? 18:56:24
13 MR. TERRY: It was shared with 18:56:24
14 Canada's counsel. 18:56:26
15 MR. SPELLISCY: Shared with counsel, 18:56:27
16 with you, by counsel. 18:56:28
17 MR. TERRY: Yes. 18:56:29
18 MR. SPELLISCY: Yes. 18:56:30
19 THE WITNESS: And I believe 18:56:31
20 Mr. Morley has waded in because the Minister of the 18:56:32
21 Environment for the Province of Ontario had decided 18:56:34
22 that what was going to happen was not going to 18:56:39
23 happen, and so the Premier's Office was backing up 18:56:40
24 the Minister of the Environment. 18:56:43
25 BY MR. TERRY: 18:56:44

Page 421

1 sir, and look at the second paragraph. 18:55:18
2 A. Okay. 18:55:20
3 Q. And you will see that this is 18:55:21
4 consistent with what is proposed as a recommended 18:55:22
5 option in the document I showed to you earlier. 18:55:25
6 A. Yes. 18:55:28
7 Q. All right. And you will see that 18:55:29
8 this is -- if you turn back to the first page of the 18:55:31
9 e-mail, this is sent up to Chris Morley. And he 18:55:34
10 says: 18:55:38
11 "Sorry, folks. This isn't 18:55:38
12 good enough. The purpose of 18:55:39
13 this release is to kill all 18:55:40
14 projects, except the Kingston 18:55:42
15 one, not suck and blow. 18:55:43
16 "Please turn this around so 18:55:45
17 it kills the projects, not 18:55:48
18 sounds like we're in favour 18:55:49
19 of offshore wind." 18:55:50
20 A. Yes. 18:55:52
21 Q. Then you will see it says: 18:55:52
22 [REDACTED] 18:55:53
23 [REDACTED]
24 [REDACTED]
25 Now, continuing through the chronology 18:56:00

Page 423

1 Q. All right. And I'll get back to 18:56:44
2 you on that, sir. I just want to continue with the 18:56:46
3 documents that we have. 18:56:49
4 If we move then to Tab 12, which is Document 915, 18:56:49
5 just to see this sequence through, we see here there 18:56:58
6 is an agenda. This is January 12, 12:42 p m., an 18:57:01
7 agenda for an energy issues meeting, an upcoming 18:57:09
8 energy issues meeting. 18:57:12
9 Do you have any idea, by the way, what 18:57:14
10 the energy issues meeting was? I don't -- I'm not 18:57:15
11 faulting you if you don't, but... 18:57:19
12 A. I knew at all times that any issue 18:57:21
13 would be dealt with by what we referred to as "four 18:57:24
14 corners"; that when you had ministries that -- where 18:57:27
15 they weren't on the same page, it was very important 18:57:31
16 to get them on the same page, so they were called 18:57:33
17 four-corner meetings because you could have up to 18:57:35
18 four ministries, I suppose, showing up, and they 18:57:38
19 would try to resolve that. That was something that 18:57:40
20 the staff would do. Those of us elected who had to 18:57:43
21 make the decision made the decisions. They had to 18:57:46
22 figure out how to implement it and communicate. 18:57:47
23 So I'm not surprised, given the fact the Ministry of 18:57:50
24 Energy had, for example, promoted this policy and 18:57:53
25 had actually granted a FIT contract to one of the 18:57:56

Page 424

1 potential proponents, that they were trying to deal 18:57:59
2 with the consequence of my decision. 18:58:02
3 Q. So this is -- this the energy 18:58:06
4 issues meeting. And you will see in the agenda, one 18:58:07
5 of the items on the agenda is offshore draft 18:58:12
6 communications plan. Do you see that? 18:58:15
7 A. Yes. 18:58:16
8 Q. All right. And you will see 18:58:17
9 there's a draft communications plan attached to 18:58:20
10 that? 18:58:22
11 A. Is that at 14? 18:58:24
12 Q. It is at Tab 12. 18:58:25
13 A. Oh, wait a minute. Hang on a 18:58:27
14 second. I just have -- I don't have the draft 18:58:29
15 communication plan attached. I just have the first 18:58:34
16 page. 18:58:36
17 MR. SPELLISCY: Do you have another 18:58:37
18 page? 18:58:38
19 THE WITNESS: No. I just have the 18:58:38
20 one. 18:58:40
21 PRESIDENT: We don't have it. 18:58:40
22 MS. SEERS: If I may assist, the draft 18:58:44
23 communications plan is Exhibit C-916. So if it's 18:58:45
24 not in the binder, we can pull it up immediately. 18:58:48
25 BY MR. TERRY: 18:58:51

Page 425

1 Q. Yes. I'm not planning to take you 18:58:51
2 to it. There's nothing, I don't think, of 18:58:52
3 consequence for what we're discussing, but I'm happy 18:58:54
4 to put it for you if you want. In fact, maybe if 18:58:57
5 Ms. Seers has a copy, she could put it in front of 18:59:00
6 the witness. 18:59:00
7 A. And decks change. You know, it 18:59:02
8 was an iterative process when it came to decks. 18:59:02
9 They were being changed. So the only decks -- you 18:59:04
10 know, if a deck came to me, that I was asked to look 18:59:08
11 at or have comment, I would initial it. 18:59:12
12 MR. TERRY: I don't know whether 18:59:16
13 Donnie could use his good offices to bring it up. 18:59:17
14 MR. GUILLORY: What exhibit? 18:59:20
15 MR. TERRY: It's Exhibit 916. 18:59:22
16 THE WITNESS: Okay. So now this is 18:59:24
17 January 11. 18:59:27
18 BY MR. TERRY: 18:59:28
19 Q. Yes. 18:59:28
20 A. Yes. And do we know who put this 18:59:29
21 together, which Ministry? Because it looks exactly 18:59:32
22 like the one from -- off the top of my head, it 18:59:35
23 looks like the one from Energy from before, but any 18:59:37
24 ways. 18:59:39
25 Q. Our understanding is it's another 18:59:40

Page 426

1 -- it's another Energy news release. So this 18:59:41
2 communication is going to this energy issues 18:59:46
3 meeting. 18:59:48
4 Then if you can turn to Tab 13. 18:59:49
5 That's C-917. 18:59:52
6 A. Hang on. Just give me one sec. 18:59:54
7 Q. Sure. 18:59:56
8 A. I will move my paper around here. 18:59:57
9 Thirteen, great. 18:59:59
10 Q. You will see -- by the way if we 19:00:01
11 turn back, sir, to -- I should have asked you this 19:00:02
12 question before, but if we turn back to Document 19:00:04
13 C-915, which is Tab 12 -- 19:00:10
14 A. Twelve, okay. 19:00:12
15 Q. -- in terms of the invitation to 19:00:14
16 this meeting, I don't see anyone from Environment 19:00:16
17 copied -- invited to this meeting, do you? 19:00:22
18 A. No. Quite similar to what Mrs. 19:00:27
19 Lucas told me on the 6th, that there were meetings 19:00:30
20 going on that we were not invited to. 19:00:34
21 Q. Okay. So this is an example of a 19:00:36
22 meeting going on that you weren't invited to? 19:00:37
23 A. Well, I wouldn't have been 19:00:39
24 invited, but whether my staff knew about it. 19:00:41
25 Q. Sorry, you say you were invited? 19:00:42

Page 427

1 A. No. I said that I wouldn't have 19:00:44
2 been invited. The question is whether or not my 19:00:45
3 staff were invited. 19:00:47
4 Q. Okay. 19:00:48
5 A. I can -- though I can help you, 19:00:48
6 Mr. Terry, that my understanding is that every 19:00:50
7 morning all the Chiefs of Staff for all of the 19:00:53
8 ministries for the Government of Ontario met each 19:00:56
9 and every morning. And then there were the -- there 19:00:58
10 were issues. If there was a particular issue that 19:01:02
11 certain ministries had to come to, they had those, 19:01:05
12 but every day there was kind of a clearinghouse 19:01:08
13 meeting that they had to make sure that everybody's 19:01:09
14 on the same page. 19:01:11
15 Q. Sir, I am simply doing what I can 19:01:12
16 in working with the documents that we have been 19:01:14
17 given by the government in this proceeding. If 19:01:17
18 there are other documents or other meetings, we 19:01:18
19 don't have them. That's why I am working with this. 19:01:21
20 A. Sure. 19:01:23
21 Q. Okay? So we're working with the 19:01:24
22 documents that we have. 19:01:25
23 MR. SPELLISCY: Understanding that, I 19:01:26
24 think Mr. Wilkinson has to be allowed to answer -- 19:01:27
25 offer his testimony. The fact is that, if we wanted 19:01:31

Page 428

1 to read through the documents, we can do that by 19:01:33
2 ourselves. Mr. Wilkinson is here. You've asked a 19:01:35
3 question about these meetings. I think he can offer 19:01:38
4 his experience and his testimony as to what was 19:01:41
5 happening and why there might not be documents. 19:01:43
6 MR. TERRY: Of course he can, and 19:01:47
7 I'll give him the opportunity, but it's my 19:01:48
8 cross-examination, Mr. Spelliscy, and you have now 19:01:50
9 interrupted me -- I don't know -- at least three 19:01:51
10 times. 19:01:53
11 MR. SPELLISCY: Twice, to correct errors on the 19:01:53
12 record, I would point out. And this time, I think, 19:01:56
13 I just want to make sure the witness has the time to 19:01:57
14 offer his testimony. 19:01:59
15 We're here at this late point not because of 19:02:01
16 anything that we've done today, but because you've 19:02:03
17 gone far beyond the schedule that you proposed at 19:02:05
18 the beginning. 19:02:07
19 So I'm willing to let it go on, but I 19:02:08
20 do think that he needs to be able to offer his 19:02:10
21 testimony. 19:02:13
22 PRESIDENT: Let's go on, and let's 19:02:14
23 allow the witness to answer the questions. 19:02:15
24 BY MR. TERRY: 19:02:17
25 Q. Sure. So if we can turn to Tab 19:02:17

Page 430

1 BY MR. TERRY: 19:03:19
2 Q. Yes. Starting at the very bottom. 19:03:19
3 A. From Sue Lo. 19:03:21
4 Q. This is from Sue Lo. 19:03:23
5 A. Right. 19:03:25
6 Q. And it's being sent -- you can see 19:03:25
7 it's being sent to someone at -- to a number of 19:03:26
8 people in environment. 19:03:29
9 A. Civil servants, yes. 19:03:31
10 Q. And he says: 19:03:32
11 "I have some news on the 19:03:33
12 offshore file to discuss with 19:03:34
13 you. Premier's Office and 19:03:35
14 Shelly provided some 19:03:37
15 direction to my Ministry 19:03:38
16 earlier this morning that I 19:03:40
17 want to convey to you on an 19:03:41
18 urgent basis. The reason to 19:03:42
19 discuss this today is because 19:03:45
20 PO has asked for a comms plan 19:03:46
21 to convey the new direction 19:03:49
22 by end of day Monday." 19:03:51
23 Then you -- 19:03:53
24 A. I see that. 19:03:57
25 Q. As you move up the e-mail chain, 19:03:57

Page 429

1 13. This is 917. 19:02:19
2 A. Yes. 19:02:28
3 Q. And we see "offshore wind." We 19:02:29
4 see it's Chris Morley who is going to speak to this 19:02:30
5 issue. Do you see that, sir? 19:02:33
6 A. Yes. 19:02:35
7 Q. All right. And then if you turn, 19:02:35
8 then, and, again, working with the documents that we 19:02:39
9 have, and recall, then, the time of this energy 19:02:42
10 issues meeting. It's from 8:30 to 9:30 on Thursday, 19:02:48
11 January 13. 19:02:51
12 A. If that's what it says. 19:02:54
13 Q. Right. And then we see at the 19:02:56
14 bottom of this document, 11:41 a.m.: 19:02:59
15 "I have some news on the 19:03:02
16 offshore file to discuss with 19:03:04
17 you. Premier's Office and 19:03:05
18 Shelly provided some 19:03:07
19 direction --" 19:03:08
20 MR. SPELLISCY: Excuse me. Where are 19:03:10
21 we now"? 19:03:10
22 MR. TERRY: Apologies. This is 19:03:11
23 R-209. Tab 14, the very bottom of that page. 19:03:12
24 THE WITNESS: And you are starting at 19:03:17
25 the back and working up? 19:03:18

Page 431

1 you see Sue Lo again writing to officials at 19:04:01
2 Environment and other officials, and she says: 19:04:05
3 "Colleagues, following up on 19:04:07
4 my conference -- 19:04:09
5 teleconference yesterday, I 19:04:10
6 have received further 19:04:10
7 direction from the MO/PO/DMO 19:04:12
8 on this file. The 19:04:14
9 communications plan that will 19:04:15
10 be developed will focus on 19:04:16
11 the preferred option being 19:04:17
12 moratorium on offshore wind 19:04:18
13 for the next three to five 19:04:20
14 years to provide time to 19:04:21
15 develop the science and 19:04:22
16 create the uniform rules and 19:04:23
17 policies in collaboration 19:04:23
18 with the Great Lakes. The 19:04:23
19 preferred option will also 19:04:23
20 involve discussions with the 19:04:23
21 developer of the Wolfe Island 19:04:23
22 Shoals project such that the 19:04:23
23 project won't proceed until 19:04:23
24 the science and uniform rules 19:04:23
25 and polices have been 19:04:23

Page 432

1 developed." 19:04:23
2 A. Yes. 19:04:36
3 Q. Now, sir, again I'm just working 19:04:37
4 with the documents that I have. What I see is I see 19:04:39
5 the e-mail exchange involving Mr. Morley: 19:04:42
6 "Kill all the projects except 19:04:46
7 the Kingston one." 19:04:49
8 What I see is an Energy issues meeting 19:04:50
9 that the Ministry of Environment wasn't even, to the 19:04:56
10 best of our knowledge, looking at the record, 19:05:00
11 invited to. And then I see energy informing other 19:05:02
12 officials, including at the Environment, the results 19:05:07
13 of that meeting and that meeting is -- you know, 19:05:09
14 this particular agenda item is led by Mr. Morley. 19:05:11
15 That's what I see from the documents. 19:05:15
16 Now, please, tell me what your 19:05:17
17 recollection is of these events, because my, my -- 19:05:21
18 again, working from the documents, I would have 19:05:24
19 thought that what you are recollecting is the later 19:05:28
20 decision as to whether or not Windstream should go 19:05:32
21 ahead, whether the pilot should go ahead, the one 19:05:34
22 where you are really knocking heads with your fellow 19:05:36
23 Ministers and that, in fact, you weren't involved in 19:05:38
24 this earlier decision by Mr. Morley to choose the 19:05:41
25 deferral to allow the Kingston one. 19:05:46

Page 434

1 is flawed. It's flawed because there is a lack of 19:06:53
2 science. It's flawed because it doesn't take into 19:06:55
3 account the precautionary principle. 19:06:58
4 And so what Mr. Morley was doing -- 19:06:59
5 and I wasn't part of this. I'm not part of the 19:07:00
6 Ministry. The message is going out from the top, 19:07:02
7 Shelly, Cabinet secretary, Premier's Chief of Staff, 19:07:06
8 their Minister, their Deputy Minister, saying. 19:07:10
9 "The policy is changing. So 19:07:12
10 all this rear-guard action to 19:07:14
11 try to bump Minister 19:07:16
12 Wilkinson off his position is 19:07:19
13 not going to happen. We are 19:07:20
14 changing policy." 19:07:21
15 I know that was difficult for the 19:07:22
16 Ministry of Energy. I understand that. But I had 19:07:24
17 to make a decision based on what was in front of me. 19:07:26
18 I made that decision, and there are consequences to 19:07:29
19 that, and not everybody was happy, obviously. 19:07:31
20 But what I see from this is that I 19:07:35
21 made the decision, and at the top level of 19:07:37
22 government, they backed my decision. 19:07:39
23 Q. And, sir, can I just take you 19:07:42
24 back. You said in your witness statement the 19:07:43
25 Premier's Office did not make, make or influence the 19:07:45

Page 433

1 And I, frankly, don't understand, sir, 19:05:48
2 given everything you have said, why your decision 19:05:50
3 would be that all the projects should be stopped 19:05:52
4 except the Kingston one. 19:05:55
5 A. Mr. Terry -- 19:05:58
6 Q. So this is your opportunity to 19:05:59
7 explain, please. 19:06:00
8 A. I would be more than happy. First 19:06:02
9 of all, you just showed me a document. This is 19:06:03
10 January 14. And you are talking about a document 19:06:06
11 that said there were discussions amongst the 19:06:08
12 Ministers on January 24. This is 10 days before 19:06:10
13 that, sir. Like, that's is what you are putting in 19:06:12
14 front of me, so I can read. 19:06:16
15 What I see is the Premier's Chief of 19:06:18
16 Staff telling everybody else, the Minister of the 19:06:19
17 Environment -- who has the requirement, has the sole 19:06:21
18 authority in the government to make this decision, 19:06:30
19 has made a decision, and we're going with his 19:06:32
20 decision. And he's telling everybody who doesn't 19:06:35
21 like the decision, particularly at Energy, get on 19:06:38
22 the page. 19:06:41
23 We are not going to go back, override the Minister. 19:06:42
24 He's not going to change his mind. He thinks that 19:06:46
25 the process we're down for regulating offshore wind 19:06:50

Page 435

1 deferral decision. I've shown you what I see in 19:07:49
2 terms of the Premier's Office making the decision. 19:07:54
3 Can you show me any documentary support for you 19:07:56
4 being the one who you say -- you said you made the 19:08:00
5 decision. 19:08:02
6 I do see documentary support for your role in the 19:08:02
7 pilot project. I don't see it for the first 19:08:05
8 decision. 19:08:07
9 A. Well, what I have is my word, sir. 19:08:08
10 That is what I have, and that is what I've 19:08:10
11 testified. I told my Chief of Staff to express to 19:08:11
12 the Premier's office that I had made the decision. 19:08:14
13 He did that. If he hadn't have done that, none of 19:08:18
14 this would have happened. The reason everybody is 19:08:20
15 dealing with this is because I made a decision. 19:08:23
16 Q. So, sir, just to understand your 19:08:26
17 evidence -- and I am looking at your witness 19:08:27
18 statement -- you say: 19:08:30
19 "I did not discuss the issue 19:08:31
20 of offshore wind development 19:08:32
21 with the Premier or seek his 19:08:34
22 counsel before I made the 19:08:36
23 deferral decision, and he did 19:08:37
24 not attempt to influence my 19:08:39
25 decision in any way, nor do I 19:08:40

Page 436

1 recall having any personal 19:08:42
2 communication from the 19:08:45
3 Premier's Office about the 19:08:45
4 issue." 19:08:46
5 So what you are saying is -- and I 19:08:47
6 guess you are being very careful with your words 19:08:50
7 there -- you didn't personally speak to anyone in 19:08:52
8 the Premier's Office. You directed your staff to 19:08:54
9 speak to people in the Premier's office? 19:08:56
10 A. I told my staff that it was 19:08:58
11 important that they tell the Premier's Office that I 19:09:00
12 had made a decision, which, given the fact that we 19:09:02
13 had been promoting offshore wind, obviously had a 19:09:05
14 consequence. Obviously the Premier and the former 19:09:09
15 Minister had promoted it. They needed -- he -- in 19:09:12
16 my opinion, Chief of Staff needed to tell the 19:09:15
17 Premier's office, ASAP, that the Minister of the 19:09:18
18 Environment had made the decision and that they 19:09:20
19 needed to know about it. 19:09:23
20 What I can tell you is nobody from the 19:09:24
21 Premier's Office called me up and said, you know. 19:09:26
22 "Wilkie, you have to change 19:09:27
23 your mind on this." 19:09:29
24 My Chief of Staff told them why I made 19:09:30
25 the decision about science and the lack thereof, 19:09:33

Page 437

1 which I had from my senior policy adviser; that the 19:09:35
2 precautionary principle was being ignored, according 19:09:39
3 to my Deputy Minister; that I was adamant we were 19:09:42
4 not going ahead, but I was willing to look at a 19:09:45
5 pilot project to get the science that was necessary. 19:09:49
6 If we had the science, then we could 19:09:52
7 apply the precautionary principle. We couldn't do 19:09:54
8 that if we didn't know. And because the thing is 19:09:56
9 this had never been done, really, at that scale 19:09:58
10 anywhere in the world. So, again, it was important, 19:10:02
11 for me, to actually -- when I have these red flags 19:10:04
12 in front of me, to make a decision. I leave it to 19:10:07
13 my staff. When I tell them to do something, they do 19:10:09
14 it. That's why they still were working for me. 19:10:12
15 Q. And, sir, I mean, because I want 19:10:15
16 to be totally fair with you, I've shown you the 19:10:17
17 documents. The documents don't show any involvement 19:10:21
18 from you or your office in the decision that appears 19:10:27
19 to be made, as we have pointed out, at the auspices 19:10:32
20 of Mr. Morley. 19:10:37
21 I have shown you a number of documents 19:10:38
22 that we have in the record that show your 19:10:40
23 involvement in the pilot project, and that's 19:10:42
24 obviously something that is important to you. Isn't 19:10:44
25 it possible, sir, and it has been five years, and I 19:10:46

Page 438

1 know you say that you remember every decision you 19:10:49
2 made, but isn't it possible that what you are 19:10:51
3 recollecting is the later decision when Ministers 19:10:53
4 clearly did get involved in making the decision as 19:10:58
5 to whether Windstream should go ahead as a pilot or 19:11:00
6 whether it should be frozen? 19:11:04
7 A. Mr. Terry, I have said, and I'll 19:11:06
8 say it again: I had the responsibility about the 19:11:07
9 draft regulations. That fell to me. It didn't fall 19:11:11
10 to anybody else. It wasn't the Premier's decision. 19:11:14
11 It wasn't Minister of Energy's decision. It was my 19:11:17
12 decision. I'm the only person that could have made 19:11:20
13 that decision. When I was presented with the facts, 19:11:22
14 as I knew at the time from my senior policy adviser 19:11:26
15 and my top civil servant, the Deputy Minister, and 19:11:28
16 they gave me two red flags. I didn't have to spend 19:11:32
17 a lot of time deciding what was my responsibility 19:11:36
18 under the Clean Water Act, the Environmental 19:11:40
19 Protection Act, the Environmental Bill of Rights, 19:11:42
20 our agreements with the Americans in regard to the 19:11:45
21 Great Lakes. It was pretty obvious to me that I 19:11:47
22 needed to make a decision, and it would not be fair 19:11:51
23 if I did not have faith in the process that had been 19:11:54
24 started by my predecessor to allow it to continue; 19:11:58
25 that we needed to back up the bus and say, "Listen, 19:12:00

Page 439

1 we are putting science first." That's the first 19:12:03
2 thing that we do. 19:12:06
3 And by the way if we have a regulation, it's going 19:12:06
4 to be based on the precautionary principle, because 19:12:09
5 I knew that, if it wasn't, any decision I made 19:12:11
6 either way would have ended up going to the 19:12:15
7 Environmental Review Tribunal and perhaps then 19:12:17
8 subsequently to Divisional Court, and that we would 19:12:20
9 have been overturned because we had ignored the two 19:12:22
10 things that are the fundamental -- 19:12:25
11 Q. Sir, sir, I apologize -- 19:12:27
12 A. -- bases of environmental law. 19:12:28
13 Q. Sir, you talk about putting 19:12:31
14 science first. If you could -- if you could turn, 19:12:35
15 please, to Tab 20? 19:12:38
16 A. Sure. 19:12:41
17 Q. And this is not an exhibit. This 19:12:46
18 is -- this a description which is -- fairly reflects 19:12:48
19 the record as to the scientific studies that were 19:12:55
20 done. And my simple question, sir, is -- 19:13:00
21 A. Could I ask who -- whose document 19:13:05
22 is this, and when is the date? I don't see that. 19:13:07
23 Who did this? 19:13:10
24 Q. This is a document that was used 19:13:11
25 in our opening statement in this proceeding. 19:13:13

Page 440

1 A. Oh, okay. 19:13:15
2 Q. And as I say, it fairly represents 19:13:15
3 the state of the very science that was done by your 19:13:17
4 Ministry. 19:13:21
5 And, sir, you may not also know that 19:13:21
6 -- 19:13:24
7 A. On what date? 19:13:24
8 MR. SPELLISCY: I want to object. I 19:13:25
9 think the "fairly represented" is Claimant's 19:13:26
10 characterization. I'm not sure. I haven't reviewed 19:13:29
11 it, so I'm not sure I agree with that. 19:13:30
12 MR. TERRY: I'm not asking the 19:13:32
13 witness to agree that it's a fair representation. 19:13:33
14 THE WITNESS: Well, then, what are you 19:13:35
15 asking me, then? You are going to show me a 19:13:38
16 document I haven't seen, and you want me to 19:13:40
17 characterize it before I read it. I have asked 19:13:42
18 you -- 19:13:43
19 Q. Sir, sir -- 19:13:44
20 PRESIDENT: Let's hear the question 19:13:46
21 first. What is the question? 19:13:47
22 THE WITNESS: Okay sorry. 19:13:48
23 BY MR. TERRY: 19:13:50
24 Q. Sir, if we want to judge whether 19:13:50
25 or not this moratorium was put in place for 19:13:54

Page 442

1 shared source of drinking water. We had 19:14:59
2 international obligations with the Americans. 19:15:02
3 So what I had said was that it should 19:15:05
4 be based on science, and that obviously we had to -- 19:15:07
5 I mean, I was so concerned that we were going down a 19:15:11
6 path, and we shared these Great Lakes with our 19:15:13
7 American friends. Surely if they were doing that to 19:15:16
8 us and not consulting with us, that seemed to be -- 19:15:18
9 it just didn't seem to be right. 19:15:22
10 Q. Sir -- 19:15:23
11 PRESIDENT: Okay. Can we go back to 19:15:24
12 the question and answer format? The question first 19:15:25
13 and then an answer to the question. We are way 19:15:28
14 beyond the time when we are supposed to finish 19:15:31
15 today. So let's be efficient. 19:15:33
16 THE WITNESS: Yes, sir. 19:15:35
17 BY MR. TERRY: 19:15:36
18 Q. Would it surprise you, sir, to 19:15:38
19 know that the Government of Canada, representing 19:15:41
20 Ontario or speaking on behalf of Ontario, in its 19:15:45
21 opening statement, said that Ontario was not 19:15:49
22 planning to commence further scientific studies in 19:15:53
23 the near term to address the areas initially set out 19:15:55
24 in its earlier plans? 19:15:58
25 A. Would I be surprised by that? 19:16:02

Page 441

1 environmental reasons, is it fair for us to look 19:13:56
2 after the fact as to how much research has actually 19:14:01
3 been carried out by the Ministry of the Environment? 19:14:04
4 That's my question. 19:14:07
5 A. To me? 19:14:10
6 Q. To you. 19:14:10
7 A. Okay. I can testify about the 19:14:11
8 decision that I made. And I gave clear 19:14:13
9 instructions, which are noted in the subsequent 19:14:18
10 communications that went out that science would have 19:14:22
11 to be the basis of the new regulation. 19:14:25
12 Q. Sir, you would have expected, 19:14:28
13 then, that -- and I appreciate that you left the 19:14:30
14 Ministry in October 2011. 19:14:33
15 A. Yes. 19:14:36
16 Q. And -- but you would have 19:14:37
17 expected, given that, the Ministry would follow up 19:14:40
18 and carry out the science and would fund the science 19:14:43
19 in order to determine the scientific issues that 19:14:48
20 concerned you? 19:14:51
21 A. Well, again, Mr. Terry you have to 19:14:52
22 also remember that -- 19:14:53
23 Q. Listen my question is -- 19:14:55
24 A. I also told my Ministry they 19:14:56
25 needed to reach out to the Americans. This was a 19:14:57

Page 443

1 Q. Yes. 19:16:04
2 A. I know what I told the Ministry to 19:16:09
3 do. Any further regulation had to be based on 19:16:11
4 science. I don't remember saying that we were going 19:16:14
5 to pay for it. I said that we needed to talk to the 19:16:16
6 Americans, that needed to be -- obviously had to 19:16:19
7 have scientific rigour. That's what I recall. 19:16:21
8 That's the decision I made. What people did 19:16:24
9 subsequently, I don't know. 19:16:26
10 Q. Okay. But I take it, based on 19:16:28
11 everything you've told me, that, if you had remained 19:16:29
12 as Minister, you would have ensured the scientific 19:16:31
13 research was done? And you have talked about -- 19:16:34
14 A. There would have been no further 19:16:36
15 consideration of any draft regulations unless they 19:16:37
16 had met what I would call the Wilkinson test, which 19:16:40
17 is this regulation is going to be based on science, 19:16:42
18 and it's going to be based on the precautionary 19:16:45
19 principle. 19:16:47
20 What my predecessors or successors 19:16:48
21 would have done, that's up to them. I wasn't the 19:16:52
22 Minister. But I have been very clear with the 19:16:54
23 Ministry what the two concerns that I had, and I 19:16:56
24 communicated that with the Deputy. 19:16:59
25 MR. TERRY: Just a moment. Sir, 19:17:01

Page 444

1 those are all of my questions. I appreciate you 19:17:36
2 appearing this evening and look forward to further 19:17:40
3 potential questions, if necessary, but I'm really 19:17:50
4 done for -- as far as my cross-examination is 19:17:56
5 concerned. 19:17:59
6 PRESIDENT: Thank you, Mr. Terry. 19:18:01
7 Any questions on redirect? 19:18:02
8 MR. SPELLISCY: Just give me one minute. Thank you. 19:18:04
9 MR. PRESIDENT: Sure. 19:18:06
10 RE-EXAMINATION BY MR. SPELLISCY: 19:18:06
11 Q. Just a few very brief questions 19:18:06
12 given the hour. Mr. Wilkinson, at a couple of 19:19:11
13 points today, you said that the Ministry of Energy 19:19:17
14 had granted a FIT contract to Windstream. I wanted 19:19:20
15 to get some clarity around that. Are you saying it 19:19:24
16 was the Ministry of Energy that granted that 19:19:27
17 contract, or who granted that contract? 19:19:28
18 A. Yes. FIT contracts were -- well, 19:19:30
19 actually, I think it was the Ontario Power 19:19:33
20 Authority, which is now the IESO. So it's not 19:19:34
21 really the -- it's not really the -- the Ministry; 19:19:37
22 right? There was an arm's-length agency of the 19:19:39
23 government that dealt with that. 19:19:43
24 Q. Okay. I wanted to talk to you 19:19:45
25 briefly about the briefing with Ms. Lucas and then 19:19:48

Page 445

1 the follow-up briefing with your ADM, who I don't 19:19:53
2 think was named. Who was your ADM at the time? 19:19:56
3 A. Oh, sorry, my Deputy Minister? 19:19:59
4 Q. Deputy Minister, sorry. 19:20:00
5 A. That's Gail Beggs. 19:20:00
6 Q. Gail Beggs. And you said she was 19:20:02
7 a scientist. What sort of scientist, was she? 19:20:03
8 A. Well, I remember that conversation 19:20:06
9 because it was the first time I heard the term 19:20:07
10 "benthic life forms." And I was surprised that she 19:20:08
11 knew all about that. But she had been with the 19:20:11
12 Ministry of Natural Resources and I believe that she 19:20:13
13 was -- her undergraduate degree, maybe even her 19:20:14
14 master's, was in biology. 19:20:17
15 Q. Now, was this -- in what form was 19:20:19
16 this? Was this on the phone? Was it an in-person 19:20:21
17 meeting? Could you explain a little bit more about 19:20:23
18 that? 19:20:25
19 A. Oh it was face to face. It was in 19:20:26
20 the Minister's Office of a -- my -- we had a joint, 19:20:28
21 a joint boardroom between the two sides. But 19:20:34
22 actually Gail came over to my side, to the 19:20:37
23 Minister's Office, and in my -- the Minister's 19:20:39
24 Office, I had a table that sat, I think, eight 19:20:41
25 people. It was also where we met when I had to make 19:20:44

Page 446

1 decisions on bump-up requests, which is something 19:20:48
2 the Minister of the Environment has to do. So it 19:20:50
3 was in my office and the meeting was at my behest, 19:20:54
4 and I remember it because that was very exceptional. 19:20:57
5 Q. And when you say it was "very 19:21:02
6 exceptional," what do you mean by that? 19:21:05
7 A. Well, I cannot recall any other 19:21:06
8 time where I had been briefed by my -- by my 19:21:08
9 political staff, by my senior policy adviser, where 19:21:12
10 I saw something that looked like one great big red 19:21:14
11 flag. And I thought that the right thing to do was 19:21:18
12 to call in my Deputy Minister, who was the top civil 19:21:21
13 servant and ask the questions that I had, one about 19:21:24
14 science. And then as she answered the questions, 19:21:27
15 she went through -- I remember she briefed me on -- 19:21:30
16 there was impact on birds, on bats, on noise, on 19:21:33
17 what if a wind turbine caught fire, what about the 19:21:38
18 ice in the Great Lakes, the construction, and all 19:21:41
19 that kind of stuff. And that they were -- they were 19:21:43
20 not on the literal shore, another term that I 19:21:46
21 learned that day from my -- from my Deputy. 19:21:49
22 But then I asked, "Okay. Well, I know 19:21:51
23 that there is hundreds years' worth of industrial 19:21:54
24 pollution on the bottom of the lake. So if you are 19:21:57
25 going to construct this thing, what happens if you 19:21:59

Page 447

1 stir that up? Like, are you drilling into bedrock? 19:22:01
2 Like, I knew these things were like, 500 feet high, 19:22:04
3 and then you had to go through the water, and then 19:22:07
4 they had to be secured. I had no doubt they could 19:22:09
5 be done, because they were in saltwater all around 19:22:11
6 the world, offshore wind, the North Sea 19:22:13
7 particularly. 19:22:15
8 So I didn't have a concern about them 19:22:17
9 being constructed. My question was: So if you are 19:22:18
10 building those things, what happens? What gets 19:22:20
11 released to the water? How do we know that it's not 19:22:23
12 going to contaminate the drinking water for people 19:22:25
13 that were drawing that water? 19:22:27
14 Then the other issue that I had was I 19:22:29
15 had dealt, as the Minister, that we had something 19:22:31
16 called drinking water advisories in regard to 19:22:35
17 blue-green algae. So that is an algae bloom, and 19:22:38
18 that particular strain of algae is called 19:22:43
19 blue-green, has a toxin in it. If it gets in the 19:22:45
20 water supply, then you can't -- you can't get rid of 19:22:48
21 it. You have to flush it out. 19:22:52
22 This happened just two years ago in 19:22:53
23 Toledo, which gets its water from Lake Erie. The 19:22:55
24 algae bloom was so big you could see it from space, 19:22:58
25 and 400,000 people in Toledo didn't have drinking 19:23:01

Page 448

1 water because the blue-green algae was in the water. 19:23:05
2 And if you boiled the water, it released the toxin 19:23:07
3 and made it worse. 19:23:09
4 And so this was what was in my mind as 19:23:11
5 I looked for a set of regulations for the entire 19:23:14
6 Great Lakes: How were we to differentiate where the 19:23:17
7 greatest risk was? How were we to determine that, 19:23:20
8 yes, it could be there, that safe. If it was over 19:23:23
9 there, it wouldn't be safe. So what was that? 19:23:25
10 So obviously that should be informed 19:23:28
11 by science. And then I hear that the comments from 19:23:29
12 the draft regulations were something like 1,400 19:23:31
13 comments, where people are saying, "Well, what's the 19:23:34
14 science?" Obviously it had never been built in 19:23:37
15 freshwater. There wasn't science. I get that. But 19:23:40
16 what you would need to do is develop the science. 19:23:42
17 You wouldn't start with a massive construction 19:23:44
18 project and then figure it out. That would be 19:23:46
19 experimenting in the largest single source of 19:23:49
20 drinking water in North America. That just didn't 19:23:51
21 seem like a good idea to me when this was brought to 19:23:53
22 my attention. 19:23:56
23 And then when I asked my Deputy, who I 19:23:56
24 had great confidence in, she couldn't answer that 19:23:58
25 question. I found that -- I was very disturbed by 19:24:01

Page 450

1 And now I look at Toledo and Flint and all of these 19:25:10
2 things that are going on and the tragedy in Ontario 19:25:13
3 about Walkerton. It always goes back that you are 19:25:15
4 just -- you are not paying attention to the 19:25:17
5 fundamental thing. You keep your sources of 19:25:19
6 drinking water safe. 19:25:23
7 And when I made this decision, I was 19:25:24
8 the Minister responsible for the Clean Drinking 19:25:27
9 Water Act -- the Clean Water Act. That was a direct 19:25:29
10 promise we had made to the people of Ontario that we 19:25:32
11 would implement Justice O'Connor's recommendation, 19:25:34
12 given the tragedy. 19:25:37
13 So I knew that if I had to pick between the Clean 19:25:39
14 Drinking Water Act, the Ontario Water Resources Act, 19:25:42
15 the Environmental Protection Act, all of the things 19:25:45
16 that I was responsible for, and it seemed to be in 19:25:47
17 conflict with the path we were going down with one 19:25:50
18 particular set of renewable projects that were 19:25:53
19 proposed in the Great Lakes, that the preponderance 19:25:56
20 for me was to decide, based on the fundamental 19:25:58
21 principles, the bedrock of environmental law, which 19:26:03
22 is, science and the precautionary principle. 19:26:06
23 And in this case, I thought the draft 19:26:09
24 regulation failed on both counts, and so I made the 19:26:11
25 decision. 19:26:14

Page 449

1 that comment, given the fact that, in Ontario, we 19:24:04
2 had had people killed through a water tragedy in a 19:24:07
3 place called Walkerton where, again, the 19:24:12
4 precautionary principle had just been thrown out. 19:24:14
5 And so what Justice O'Connor had said was that what 19:24:18
6 you do is you keep your sources of drinking water 19:24:24
7 safe in the first place. You don't let them get 19:24:26
8 polluted, the aquifer or the lake, and then try to 19:24:29
9 clean it up. What you should do is, as a policy, a 19:24:31
10 good public policy, you do everything you can to 19:24:34
11 keep the sources of drinking water safe in the first 19:24:36
12 place. 19:24:38
13 And when I had been parliamentary 19:24:39
14 assistant, I brought in changes to the Ontario Water 19:24:43
15 Resources Act. I had gone around the province on a 19:24:45
16 parliamentary committee, and I led that as the 19:24:47
17 parliamentary assistant to the Minister involved, 19:24:50
18 and I had -- we had gone to Walkerton, the site of 19:24:53
19 this tragedy. Seven people had been killed drinking 19:24:55
20 drinking water from their tap. 19:24:57
21 And so I took to heart Justice 19:25:01
22 O'Connor's recommendations -- and I've said this in 19:25:02
23 my witness statement -- that the great hallmark was 19:25:05
24 you keep your drinking water safe in the first 19:25:07
25 place. 19:25:10

Page 451

1 Q. And obviously you have a fairly 19:26:16
2 clear recollection, as my colleague, Mr. Terry 19:26:17
3 pointed out. 19:26:20
4 A. Mm-hmm. 19:26:21
5 Q. Could you also explain the -- do 19:26:21
6 you have anything to add to the tenor of this 19:26:24
7 meeting and why your recollection is so clear about 19:26:26
8 your meeting with your Deputy? 19:26:28
9 A. Well, like I said, I had great 19:26:30
10 confidence in my deputy, and she was very, very 19:26:32
11 experienced. She had been -- and I -- you know, 19:26:34
12 when I asked her to come in, I told my chief, "I 19:26:39
13 need to see the Deputy on this." After I got the 19:26:41
14 memo from Mrs. Lucas, "I want that to happen," which 19:26:43
15 was rare, right, because we had a process on most 19:26:47
16 things as we went through. So I said, "No, this is 19:26:50
17 urgent." 19:26:53
18 And I remember that I was -- I 19:26:54
19 couldn't believe, when I asked the Deputy, "How do 19:27:01
20 we know that if we do this, that it's not going to 19:27:03
21 contaminate the drinking water; that it's not going 19:27:06
22 to stir up the sediment that's going to get into the 19:27:08
23 water; that it's not going to create an algae bloom, 19:27:11
24 all the phosphate at the bottom of the lakes? How 19:27:13
25 do we know that?" 19:27:13

Page 452

1 "Well, we don't know, Minister." 19:27:14
2 I remember saying, "What do you mean 19:27:17
3 we don't know? We're down this path, and we don't 19:27:18
4 know what the consequences of regulating this is?" 19:27:22
5 I mean, I was -- that's why I remember it, because I 19:27:25
6 -- I didn't think I was going to get that answer. I 19:27:30
7 thought I would get the regular answer, "Well, you 19:27:33
8 know, we have this study. We have that study. 19:27:34
9 Don't worry, Minister. All is well in hand. You 19:27:36
10 can count on us." And I didn't get that. And, 19:27:38
11 again, why? Because it had never been done before. 19:27:41
12 And, therefore, the science wasn't there. 19:27:46
13 I knew the same case when it came to onshore wind. 19:27:49
14 Those rules were all based on 19:27:54
15 available science because there were thousands of 19:27:57
16 onshore wind turbines around the world. So we had 19:28:00
17 scientific studies and data from public health and 19:28:03
18 researchers to ground our regulations, which, by the 19:28:05
19 way, I know have gone extensively here in Ontario 19:28:11
20 through the Environmental Review Tribunal and to 19:28:13
21 Divisional Court. I think one part almost got maybe 19:28:16
22 to the Supreme Court. 19:28:19
23 PRESIDENT: Mr. Wilkinson, it is 19:28:20
24 getting a bit late now, so let's -- 19:28:22
25 THE WITNESS: You don't want me to go 19:28:24

Page 454

1 I made that decision. Hey, I got this thing from 19:29:10
2 Brenda. This is a red flag to me. And I don't want 19:29:14
3 to hear from anybody else but my Deputy Minister. 19:29:17
4 She is responsible for the Ministry of the 19:29:21
5 Environment and how this is administered." 19:29:25
6 PRESIDENT: So it was the next day, 19:29:25
7 the 7th of January? 19:29:26
8 THE WITNESS: Yes. So then -- that's 19:29:26
9 the 7th. And so whether or not the meeting, sir, 19:29:27
10 was that day, it was probably the day after, 19:29:29
11 probably the 8th. I don't have a calendar in front 19:29:32
12 of me. But it happened quite quickly because it's 19:29:34
13 quite rare for a Deputy -- or, sorry, for a Minister 19:29:37
14 to request a meeting with the Deputy. 19:29:40
15 PRESIDENT: So it was either on the 19:29:42
16 7th or the 8th of January? 19:29:44
17 THE WITNESS: Yes. It happened -- it 19:29:46
18 happened right away because that was quite -- that 19:29:47
19 was quite -- it wasn't under the normal process. 19:29:49
20 PRESIDENT: Again, after that meeting 19:29:54
21 with your Deputy is when you decided that moratorium 19:29:55
22 is the solution to the issue you faced? 19:29:59
23 THE WITNESS: Yes. And my Deputy at 19:30:02
24 the time told me that she thought that was the right 19:30:04
25 choice that I made. If I had made a decision that 19:30:08

Page 453

1 on? 19:28:25
2 PRESIDENT: -- try to stick to the 19:28:26
3 usual format of question and answer. 19:28:27
4 [Laughter.] 19:28:29
5 PRESIDENT: Any further questions? 19:28:29
6 MR. SPELLISCY: I have nothing 19:28:30
7 further. Thank you. 19:28:31
8 PRESIDENT: Thank you. I understand 19:28:32
9 there's just one question from the Tribunal. 19:28:33
10 QUESTIONS FROM THE TRIBUNAL: 19:28:37
11 PRESIDENT: 19:28:37
12 The meeting that you just described, 19:28:39
13 that took place on the 6th of January of 2011? 19:28:41
14 THE WITNESS: No. 19:28:45
15 PRESIDENT: That's your recollection? 19:28:45
16 THE WITNESS: No. I received a memo 19:28:46
17 that was in my briefing binder for the evening, 19:28:49
18 which I received every -- and it was dated January 19:28:52
19 6. So if it was dated January 6, I can only assume 19:28:54
20 that I read it that night, because that was the 19:28:57
21 process we had. And that memo was in my book 19:28:59
22 because my Chief of Staff had initialed it. 19:29:01
23 Anything coming from my staff had to be initialed, 19:29:03
24 and I had to deal with it. I came back every 19:29:05
25 morning, and I said, "Okay. I signed these letters. 19:29:08

Page 455

1 she felt I didn't have the legal authority to make, 19:30:12
2 then her job would have been to tell me -- well -- 19:30:15
3 PRESIDENT: I'm just trying to get 19:30:18
4 the facts. 19:30:19
5 THE WITNESS: Yes. 19:30:19
6 PRESIDENT: So the meeting took place 19:30:19
7 either on the 7th or 8th. 19:30:20
8 THE WITNESS: Yes. 19:30:22
9 PRESIDENT: And you then instructed 19:30:23
10 him or her -- her? 19:30:27
11 THE WITNESS: I did two things. I 19:30:28
12 gave a heads-up to my deputy that that was my 19:30:29
13 decision, and I told my Chief of Staff, given the 19:30:33
14 nature of this file, it was very important that they 19:30:35
15 informed the Premier's Office that the Minister of 19:30:39
16 the Environment had made -- as I said, it was going 19:30:40
17 to be a decision that would make some people happy 19:30:43
18 and some people very unhappy. 19:30:45
19 PRESIDENT: And as far as you are 19:30:47
20 concerned, your testimony is that the decision was 19:30:48
21 taken on that day on the spot, after your briefing, 19:30:53
22 after your meeting with your Deputy? 19:30:54
23 THE WITNESS: Oh, yes. I was very 19:30:57
24 clear. 19:30:58
25 PRESIDENT: Okay. Any questions 19:30:59

Page 456

1 arising from this? 19:31:00
2 MR. TERRY: Nothing from us. 19:31:01
3 MR. SPELLISCY: No, nothing from us. 19:31:02
4 PRESIDENT: Okay. Thank you very 19:31:04
5 much. Thank you, Mr. Wilkinson. That concludes 19:31:05
6 your examination, and I thank you for coming. 19:31:08
7 THE WITNESS: Thank you, sir. 19:31:10
8 --- Confidential transcript ends 19:31:11
9 PRESIDENT: We are about to finish 19:31:11
10 now, so are there any housekeeping issues? It's a 19:31:23
11 late hour. Does this impact in any way the program 19:31:26
12 for tomorrow? I trust not, except there will be 19:31:29
13 less sleep. 19:31:35
14 MR. TERRY: I think the only 19:31:37
15 consequence will be less sleep, and hopefully mental 19:31:38
16 competence will still stay more or less where it is. 19:31:42
17 Looking forward to seeing you tomorrow morning at 19:31:46
18 9:00. 19:31:47
19 PRESIDENT: Just a second, before you 19:31:51
20 go, a couple of housekeeping issues before you go. 19:31:53
21 Excuse me. We are not done yet, please. 19:32:24
22 There are a couple of housekeeping issues on the 19:32:25
23 part of the secretary of the Tribunal. On our part, 19:32:30
24 simply we continue tomorrow, but let's do this 19:32:34
25 first, Jennifer. 19:32:36

Page 458

1 MS. NETTLETON: Just the first four? 19:33:41
2 MR. TERRY: Yes. 19:33:43
3 MS. NETTLETON: Up to E. Sherkey? 19:33:43
4 MR. TERRY: Yes. 19:33:46
5 MS. NETTLETON: Great. 19:33:49
6 And then for the Respondent I have Ms. Perrault. 19:33:50
7 MR. NEUFELD: Sorry to interrupt. 19:33:54
8 You can just send it to Ms. Perrault, and we'll get 19:33:56
9 it from her. I think that's probably the -- 19:33:58
10 MR. NEUFELD: Is that the easiest? 19:33:58
11 MR. SPELLISCY: Our inboxes would 19:34:02
12 appreciate that. 19:34:04
13 MS. NETTLETON: Should we adopt this 19:34:07
14 procedure going forward for the remaining of the 19:34:08
15 proceedings? 19:34:10
16 MR. TERRY: That's fine with us. 19:34:12
17 MR. NEUFELD: Just a point of 19:34:14
18 clarification: Mr. President you had asked for an 19:34:14
19 indication of where the rule is for treating such 19:34:16
20 information, the restricted access information, 19:34:21
21 which is in the confidentiality order. Are you 19:34:24
22 still looking for that, for us to indicate that 19:34:26
23 or... 19:34:28
24 PRESIDENT: No. That's fine. That's 19:34:29
25 in the order. 19:34:31

Page 457

1 MS. NETTLETON: Thank you very much. 19:32:40
2 It's in relation to the transcript distribution. 19:32:41
3 Specifically we will need to have three types of 19:32:46
4 transcripts this time, the public version, the 19:32:48
5 confidential version, and then the restricted 19:32:50
6 confidential version. 19:32:53
7 The restricted confidential -- we will 19:32:54
8 send all three versions only to the counsel on 19:32:56
9 record. However, when comparing what the PCA has 19:32:59
10 and the revised Procedural Order No. 1, counsel of 19:33:02
11 record are quite different on that, when I compare 19:33:05
12 it to the distribution list for the transcript. 19:33:08
13 So I would just like to read through 19:33:12
14 the names that I have for Claimant and for the 19:33:13
15 Respondent for distribution, and you can confirm 19:33:15
16 whether they are all counsel of record just so that 19:33:17
17 we are clear with that. Is that fine? 19:33:20
18 MR. TERRY: Yes. 19:33:24
19 MS. NETTLETON: So for Claimant -- 19:33:25
20 and forgive me; I only have addresses here. So I 19:33:26
21 have J. Terry, M. Seers, N. Kennedy, E. Sherkey, C. 19:33:28
22 Walker, L. Tavares, N. Williams, C. Patten, and R. 19:33:32
23 Romero. 19:33:37
24 MR. TERRY: It would just be the 19:33:39
25 first four. 19:33:40

Page 459

1 So that brings today's hearing to an end. So we 19:34:31
2 will continue morning at 9:00. 19:34:35
3 MR. TERRY: Thank you very much. 19:34:39
4 --- Whereupon hearing adjourned at 7:34 p m.

I HEREBY CERTIFY THAT I have, to the best
of my skill and ability accurately
transcribed the foregoing proceeding.

Teresa A. Forbes, RMR, CRR, RMR, CSR
Real-time Court Reporter

I HEREBY CERTIFY THAT I have, to the best
of my skill and ability accurately
transcribed the foregoing proceeding.

Lisa Barrett
RPR , CRR, CRC, CSR

<p style="text-align: center;">A</p> <p>a.m 1:10 4:3 100:13,14 429:14 A.S.A.P 1:22 ability 9:18 158:23 163:25 164:4 171:25 189:23 305:20 306:3 460:4,16 able 10:10 46:5 81:23 116:14 156:25 184:12 187:25 188:4 188:20,23 190:8 266:7 295:7 298:14 305:22 319:2 322:1 328:18 337:9 343:14 376:15 402:5 417:24 428:20 aboriginal 94:17 94:17,21 95:1 105:5,25 147:8 173:10 177:19 280:9 absence 35:4 absent 372:19 absolutely 25:22 27:14 49:7,13 94:19 104:23 105:9,14,23 106:1,7,24 107:14 112:2 143:13 267:21 397:11 400:4 academics 380:17 accelerated 159:16 accelerating 159:25 160:1 accept 321:8 331:10</p>	<p>acceptable 39:17 225:25 407:7 accepted 150:14 313:12 408:25 accepting 300:10 321:6 access 1:12 148:22 179:20 181:22 183:14 189:16 257:15 298:14 458:20 accommodate 39:15 315:22 companies 64:2 accomplish 415:12 account 4:16 176:23 327:8 330:3 408:14 434:3 accountable 123:23 accounting 4:10 accretion 286:21 accumulated 206:3 accurate 211:22 accurately 169:17 460:4 460:16 achieve 191:4 206:11,18 207:17,17 295:7 321:15 336:11 achieved 204:22 achieves 162:17 acknowledge 224:24 241:6 306:22 Acknowledge... 302:9 act 13:11,15,19 38:14,16,16</p>	<p>40:25 41:1,4,5 41:18,23,23,24 42:2,7,8,12,21 42:22 52:5 53:6 54:23,25 55:5,12 63:14 75:22 76:6,9 76:14 90:13 98:7 113:24 117:4 120:7,7 124:15 274:3 274:23 281:19 286:8 289:21 313:24 315:3 320:19 438:18 438:19 449:15 450:9,9,14,14 450:15 acted 46:10 143:21 action 405:23 434:10 active 292:23 actively 46:20 243:16 activities 256:16 275:12,18 Acts 126:10 127:12,13 275:24 actual 79:18 99:11 117:2 124:20 176:11 291:14 298:23 Adam 209:18 adamant 437:3 adapt 331:19 add 451:6 added 19:13 321:1,2 adding 37:13 addition 270:19 271:22 283:14 284:23 285:3,8 285:13 287:7 309:24 318:15</p>	<p>332:14 additional 4:23 19:13,14 142:10,14 147:16 154:1,3 156:10 269:14 281:16 283:7 283:15 284:22 287:9 301:10 336:3 378:20 389:10 417:14 address 76:1 122:17 300:23 301:18 319:23 347:1 348:18 369:18 442:23 addressed 120:16 122:21 addresses 274:18 286:18 457:20 adequate 320:10 326:11 415:20 adjourned 459:4 adjust 174:8 202:25 207:11 adjusted 202:21 ADM 273:18 323:7 355:23 355:25 393:3,6 393:19 445:1,2 administered 275:24 308:23 454:5 administering 273:1 370:16 370:18 administers 123:20 270:14 287:16 administrative 90:17 321:1 admission 326:7 admit 187:10 201:11 adopt 32:16</p>	<p>62:9 458:13 adopted 52:24 97:2 113:17 adopting 59:8 adoption 115:18 115:19 advance 5:14 advice 219:8 301:4 367:3 advisable 93:2 93:25 advise 37:1 307:1 advised 328:9 adviser 217:6 272:16 397:5,6 397:20 398:9 407:21 410:22 437:1 438:14 446:9 advising 40:11 145:3 advisories 447:16 aesthetic 343:1 343:5 aesthetics 344:15,20 346:22 347:2 347:17,19,25 AFFIRMED 3:2 3:9,15,21 7:6 157:2 266:25 383:1 affords 62:20,25 affronted 343:15 afraid 59:24 aftermath 396:18 afternoon 153:1 154:24,25 157:4 165:2 189:15 266:3,5 271:2,3 315:24 316:11 326:16 382:15</p>
--	---	--	--	--

agencies 30:19 31:6 32:1 37:10 39:20 49:24 93:15 380:16	181:17 182:15 204:1,3 211:8 212:22,23 244:6 252:16 252:18 266:8	allowing 401:4 415:21	anger 352:11 378:5	359:7
agency 30:23 32:2,6 44:21 444:22	agreements 438:20	allows 41:10 63:1	announced 143:8 174:8 214:11 395:15	anticipating 87:16 335:6
agenda 5:11 423:6,7 424:4 424:5 432:14	agrees 232:8 238:21	alongside 20:22	announcement 133:24,25 174:7 222:11 323:22 324:1 359:8 360:17	anticipation 89:18
agent 83:24	ahead 50:9 98:9 107:25 133:4 302:7 337:12 389:19 397:15	Amalraj 2:10	annual 255:6	anybody 100:9 189:3 230:23 438:10 454:3
aggregate 102:23 202:6 270:21	air 98:3,3 114:3	amend 232:4 415:11	answer 8:20 9:1 45:7,9 118:9 119:3 143:1,16 151:12,19,22 167:25 168:3 170:3 178:15 181:4,5,8 183:19,21 184:12 186:5 188:4,21 192:6 199:6 200:11 200:15 215:3 244:21 248:13 250:23 253:23 291:6 299:19 312:9 398:11 427:24 428:23 442:12,13 448:24 452:6,7 453:3	anyway 108:4 170:3 188:2 229:24 232:8 395:3
ago 19:8 129:21 136:13 179:2 255:11 352:13 366:13 374:11 387:9,12 447:22	algae 447:17,17 447:18,24 448:1 451:23	amendment 61:12,15 65:5 90:5 151:23	AOR 305:19	apologies 5:13 16:4 167:11 182:18 186:7 189:18 264:6 268:4 350:17 350:23 390:19 429:22
agree 11:20 18:20 23:14 28:22 35:21 62:10 69:9 94:17 176:3 206:9 207:15 207:21 210:4 218:10 220:3 222:3 228:14 228:19 231:20 232:2,3 234:5 241:20 264:14 292:15 314:21 315:7 331:20 331:23 367:5 403:10 407:23 408:20 440:11 440:13	Alicia 360:1	amendments 58:25 63:10 64:12,15,21 65:1	apologize 101:3 171:13 198:3 224:10 292:5 351:3 372:14 408:16 422:3 439:11	appeal 174:10 194:7 397:23
agreed 228:21 228:23 265:1 306:15	align 315:20 342:19 374:7 376:3	America 448:20	answered 142:22 180:12 212:17 258:9 398:19 401:10 446:14	appeals 174:10 194:9
agreeing 158:7 232:1	aligning 308:21 309:14 321:16	American 1:2 93:23 94:1 442:7	answers 45:12 45:18 247:15 361:17 406:21	appear 188:20 347:18
agreement 1:2 153:22 162:21	alignment 315:9 375:25	Americans 438:20 441:25 442:2 443:6	anticipated 4:15 31:11 165:21 196:3,9 334:18	APPEARAN... 2:1

204:10 281:17 289:12 297:9 333:22 applicant 148:3 150:15 283:2 285:16 295:25 297:14 304:21 305:3,11 309:16 310:2,3 310:4 311:24 312:12 317:3 321:3 328:15 336:12 337:14 applicant's 275:10 applicants 114:21 132:10 171:22 172:20 268:25 269:4 276:19 277:6 277:15,17 286:15 299:4 304:24 305:14 308:16 309:20 310:1 312:18 313:12 317:7 317:21 319:25 320:18 324:16 application 7:22 67:3 96:24 99:11,15 106:16 109:23 110:8 114:15 124:3 125:10 130:20,24 131:23 132:3 139:6,7,23 146:8,12,24 147:1 148:1 158:12 165:22 166:12 176:9 176:10 289:21 290:14 296:9 296:18,20 297:5,17 298:3 298:11 304:19	308:6,13 309:3 309:12 321:7 322:18,23 337:14 339:2 374:10 380:25 applications 10:13 97:18 119:17 143:12 146:10 149:21 158:18 172:17 221:24 296:12 300:11 304:1 304:11,14,23 305:13 306:10 306:24 307:2,4 307:15 308:15 308:19 309:8 309:15 310:1 311:7,9 312:20 312:23 313:7 313:13 314:3,4 317:8 318:7 417:12 418:8 applied 22:13 27:17 36:8 51:8 52:22 69:1 97:16,17 99:24 101:10 103:5 113:17 116:4 132:2 142:18 149:3,5 150:14,16 176:6 184:16 288:1 306:16 310:2 371:7,15 405:9 applies 14:4,5 17:10,21 18:9 31:8 39:23 75:2 104:22 105:8,21 106:3 106:4,7,11,14 106:17,21,24 107:2,5,8,11 107:17,20,21 107:24 108:6	108:14,19,23 109:1,3,6,11 109:14,16 111:14 159:13 175:24,25 279:11,15,18 289:24 290:1 290:24 apply 14:8 17:6 17:8 19:10 36:13 49:16 51:10 52:25 53:3,4,5,7 75:2 77:18,21 80:20 80:21 83:9 97:2 98:23 99:2,13,13,18 99:25 101:20 101:20 102:15 105:13 108:3 109:25 110:14 110:24 111:15 111:18,19,20 111:21,22,24 132:18 139:1,3 161:6,10,10,10 175:17,18 203:9 276:1 284:12 295:10 295:20 296:1 306:20 309:9 313:7 317:21 377:8 437:7 applying 14:2 100:1 115:1,3 133:6 296:3 404:8 appointed 123:19 384:24 appreciate 9:1 147:22 152:22 186:11 196:17 198:24 287:14 287:23 288:11 290:16 299:11 338:17 347:22	347:23 352:13 359:21 387:10 441:13 444:1 458:12 appreciated 152:19 appreciating 291:23 354:13 approach 21:9 23:5 25:5,15 25:16,20 28:19 33:8,9 34:24 35:10 36:8 58:7,12,15 59:10 60:16,17 62:17 64:9 172:6 174:20 174:23 175:3 264:15 274:16 311:13 319:22 326:25 331:16 339:9 340:3,6 368:5 378:15 approached 388:12 approaches 41:11 115:4 appropriate 9:5 154:17 156:21 174:23 224:7 264:12,18 277:3 339:20 appropriately 315:4 appropriateness 264:15 approval 38:16 55:6,15 88:1 90:2,6 105:1 112:8 273:9 274:5 275:3 276:20 279:2,4 279:14 281:23 284:20 289:23 290:5,10 293:3 293:5 307:19	319:19 325:2 326:17 327:2 331:16 332:11 332:14,15 377:1,3 407:18 416:16 approvals 24:8 38:15 55:4 121:1 147:11 174:11 275:16 275:22 278:11 284:2,16 285:5 285:15 287:5 290:23 320:24 321:10,11 324:7 331:17 415:18,21 approve 12:8 approving 407:11 approximately 197:8 270:13 APRD 292:14 293:15 April 30:4,5,20 43:8 52:8,8 146:4 310:19 327:17 330:7 340:19 aquifer 449:8 arbitrary 113:25 353:13 arbitration 1:2,3 1:9 4:7 167:19 260:12,17,23 267:2 383:4 archeological 106:12,15 282:5 area 29:14 30:21 35:14 66:9 82:11 89:13 90:19 92:5 95:12 113:5 129:3 139:15 139:25 188:18
---	---	---	---	--

188:20 257:9 287:19 337:14 371:16 areas 35:15 90:17 92:1 121:1 139:18 142:16 207:11 228:7 229:1 302:19 314:16 358:10 364:15 369:18 370:2 380:6 442:23 argued 129:2 argument 160:10 arguments 158:3 161:20 arisen 265:5 arising 140:12 142:10 153:25 456:1 arm 271:20 arm's-length 444:22 arranged 388:20 388:22 arrangement 265:1 arrive 41:8 arrived 59:20 arrives 196:3 articulated 64:11 articulation 334:4 artifact 134:14 ASAP 436:17 aside 160:14 asked 6:20 84:15 101:9 112:4 113:15 115:11 117:17 125:21 140:19 142:17 144:2 151:9 158:6 160:9 161:19 162:8	198:16 225:6 226:6 227:24 229:7,8 243:3 311:2 341:20 371:12 383:18 384:23 388:13 388:18 389:1 389:12 398:3 398:25 403:25 404:20 405:5 405:20 411:23 425:10 426:11 428:2 430:20 440:17 446:22 448:23 451:12 451:19 458:18 asking 11:2 60:3 73:23 75:3 104:4 153:17 156:7 167:22 168:2 177:9 179:25 180:3 187:8 213:22 229:5 233:11 234:13,14 246:22 252:6 252:13 292:19 316:9 350:9 385:11 404:7 410:19 440:12 440:15 asks 213:11 233:2 249:19 aspect 40:15 148:25 aspects 61:6 90:23 108:19 177:15 assembling 330:19 asserted 247:9 assess 20:6 24:1 25:12 43:25 316:7 assessed 39:3 115:6	assessing 20:14 assessment 20:2 20:5 24:4,5 33:9,11,13,18 33:23 34:25 35:19 37:7 38:14 39:10 40:25 41:4,5,8 41:16,22 43:2 51:3 52:5 67:9 68:18 70:1 72:11 85:15 90:13 92:7 93:4,7 98:24 106:16,20 107:1,16 110:10,11 111:15,20 120:7 132:6 180:19 184:11 280:20 281:3 301:16 304:25 305:9,16 306:5 321:10 326:22 331:24,24 352:24 380:4 assessments 19:23,25 20:4 145:8 assets 134:2 assist 7:21 10:13 74:19 85:15 103:11 276:18 351:7 424:22 assistance 92:23 assistant 242:1 270:8,17 271:5 384:14,16 393:2,19 449:14,17 assisted 8:10,14 130:24 assists 153:21 associated 64:14 225:12,17 254:18 276:23	278:15 330:19 association 317:16 375:20 380:8 assume 159:19 206:24 294:22 344:1 346:7 420:9,10 422:6 422:7,7 453:19 assumed 90:2 337:23 assuming 133:8 207:14 assumption 98:16 257:18 assumptions 35:6,8,23 assure 404:21 409:18 assured 371:13 Atlas 302:17 attached 302:11 350:20 352:8 359:6 360:14 420:15 424:9 424:15 attaching 242:3 attempt 225:24 385:20 435:24 attempts 44:20 attend 329:1 394:5 attendance 330:10 attended 328:22 329:21,23 395:6 attention 45:25 46:3 112:19 209:10 223:7 235:15,18 318:16 371:11 380:24 397:20 448:22 450:4 Attorney 2:15 audibly 8:20	audience 200:2 audio 179:13 181:15 182:10 216:21 227:4,5 August 6:7 56:24 71:4,13 85:11 87:13 129:5 145:15 151:20 332:2 335:2,14 aura 10:25 auspices 52:1 437:19 authentic 337:23 author 332:4 authored 335:13 authorities 93:23 106:6 280:17 authority 2:17 62:15 165:13 172:11 181:21 433:18 444:20 455:1 Authority's 308:12 authorization 176:12 authorizations 176:11 275:15 authorize 215:5 authorized 226:25 automatic 208:17 autumn 368:11 availability 152:5 259:5 available 25:1 116:3 183:15 257:10 320:14 322:8 350:1 368:19 381:17 381:22,24 452:15
---	---	---	--	---

<p>avoid 143:13 208:10 413:19 avoid/mitigate 418:21 award 56:6 159:18 195:2 awarded 34:5 75:7,9,12 150:14 185:7 185:23 304:22 305:12 310:5 317:23 328:7 340:19 aware 8:11 46:20 94:11 125:3 156:5 160:22 163:1 173:14 176:15 177:1 178:8 193:20 194:11 195:5 207:2 211:5 218:18 222:10,12,14 230:5 243:6,9 243:11,15 245:17,18,19 245:19 246:1,9 256:12 257:12 257:12 313:20 332:9 347:17 361:16,17 363:22 369:10 369:13,20,23 369:25 371:6,8 374:6 386:3 388:5 406:7 410:2,5,14 413:20,25 awareness 347:13 awesome 126:15 awkward 378:12</p> <hr/> <p style="text-align: center;">B</p> <hr/> <p>b 204:22 217:24 375:24,25</p>	<p>Bachelor 10:5 back 4:22 18:20 18:21 43:17 52:15 54:14 55:8 57:6 59:16 60:9 63:5,15,21 68:23 79:2,7 83:1 85:5 96:17 99:20 114:18 117:1,2 118:12 124:19 125:6,8,10 127:23 129:25 133:21,23 147:13 183:22 187:25 188:22 199:25 200:2 200:12 201:16 216:12 240:2 240:22 249:6 249:22 252:14 263:6 264:3,24 270:1 297:21 306:14 324:20 324:21 326:19 342:21 346:4 349:5,15 352:4 360:24 363:18 379:2,23 382:10,10 388:21 391:8 400:24 412:16 416:5 421:8 423:1 426:11 426:12 429:25 433:23 434:24 438:25 442:11 450:3 453:24 backed 434:22 background 7:11 270:5 302:15 303:2 384:2 backgrounder 302:11</p>	<p>backing 422:23 backlog 307:12 backwards 344:12 bailiwick 171:6 320:24 Baines 10:22 30:12 43:6,19 55:20 148:15 226:10 233:10 239:13 327:8 Baines' 227:4 balance 254:23 ballpark 192:9 198:14 bank 252:10 Barrett 2:18 460:20 base 16:22 370:11,16,18 371:5,14 based 11:8 21:12 24:4 28:3,4 30:12 32:6 51:14,19 84:1 86:12 114:1,16 128:8 149:2 180:3 228:14,17 274:7 287:2 298:20 301:14 313:11 326:21 342:12 343:1 347:20 357:13 371:18 379:20 397:25 398:9 401:8 402:21 405:9 408:12 411:3 434:17 439:4 442:4 443:3,10,17,18 450:20 452:14 baseline 20:9 286:14 baseload 134:11 134:13</p>	<p>bases 89:3 439:12 basic 35:23 133:5 317:1 320:16 398:11 406:21 basically 240:6 250:2,6,10 255:24 392:8 401:2 basin 405:6 basins 368:12 basis 20:6 114:19 115:5 138:18 161:7 175:16,22,23 176:14,17 177:5,17 235:4 295:2 317:3 327:1 331:19 347:16 351:18 363:19,20,24 417:25 430:18 441:11 bat 91:11 369:5 369:7 batches 216:13 bats 379:7 446:16 Bay 1:10,23 bear 216:7 240:2 240:4 378:12 bed 113:7 286:1 403:21 404:14 bedrock 447:1 450:21 began 11:6 295:12 362:16 Beggs 341:4 445:5,6 beginning 16:1 16:3 86:4 174:20 428:18 begins 30:16 44:14 68:10 180:9 216:17</p>	<p>220:13 337:1 351:5 375:6,7 377:21 390:24 begun 94:20 184:14 behalf 91:5 117:19 231:25 234:7 369:15 442:20 behest 446:3 belabour 365:24 366:9 believe 6:5 12:10 15:11,22 18:25 20:18 25:9 30:5 32:18 33:22 34:3 38:11 44:23 45:5 57:20 60:17 62:15 68:21 81:7,20 87:20 92:8 96:6 103:5 108:6 111:1 118:15 129:23 129:24 133:16 140:2 143:1,21 144:1 145:17 145:22 148:20 151:14 161:9 183:4 201:19 207:24 219:4 236:19 239:17 249:17 267:17 285:10 295:19 299:2 301:15 309:17 321:2 336:19 349:3 360:8 375:11 386:24 401:22 420:8 422:19 445:12 451:19 believed 49:3 239:17 believes 362:10 418:13</p>
---	---	---	---	--

bench 262:19	binder 9:8 14:16	bit 4:14 7:11	boots 136:10	156:17 188:13
benchmarks 39:2	20:21,25 36:19	44:7 56:8	border 93:14	189:1,3 264:19
Benedetti 230:2	55:17 70:17	71:23 82:9	bored 200:5	265:22 315:24
230:3,6,7	72:15 101:4	95:3,20 96:1	boss 341:7	315:24 316:7
benefit 182:19	140:14 165:4	128:13 152:8	bosses 393:6	316:18 321:20
259:10,11	201:22 209:13	176:20 189:19	bottom 15:7	321:22 381:18
384:1 401:4	214:13 216:25	216:8 249:5,13	37:19 214:20	breaking 188:10
benefits 379:11	241:2 247:25	264:7 287:19	217:2 224:19	breeding 91:21
benthic 445:10	424:24 453:17	299:23 303:7	224:23 241:25	91:24 92:11
Berkeley 2:13	binders 9:13	307:11 354:17	276:12 282:15	Brenda 232:25
Bernardo 1:18	101:5 152:15	376:22 381:15	305:24 310:22	397:4 413:23
best 7:3 10:21	164:25 373:4,5	384:2 404:10	319:16 329:10	454:2
10:21 18:17	bio 23:15,23	445:17 452:24	331:2,4,11	BRG 153:15
50:8 102:6	193:10	bitter 377:25	334:23 346:23	187:18
118:8 125:19	Bio-energy	bizarre 124:23	348:6 365:12	bridge 154:20
135:15 180:5	21:19	black 67:20 68:9	391:15 392:6	brief 101:19
180:25 186:14	biogas 278:14	blade 26:17,19	396:22 400:20	118:11 217:17
236:6 265:12	biology 445:14	26:22	429:14,23	227:17 373:20
302:17 309:22	biomass 278:13	blades 17:2	430:2 446:24	381:17 444:11
323:20 329:22	bird 91:11 92:14	26:20	451:24	briefed 47:1
331:13 336:15	368:11 380:5,7	BLG 242:1	bottom-to-last	386:2 403:9
346:2 367:2	birds 91:8,16,17	bloom 447:17,24	338:15	410:16 446:8
378:15 380:17	91:19,21,23	451:23	Boundary 92:21	446:15
432:10 460:3	92:15 379:6	blow 221:2	bounds 127:8	briefing 371:13
460:15	380:9 446:16	361:6 421:15	box 30:9 337:10	410:21 413:14
best-available	Bishop 1:17	blue-green	Boysen 29:7	413:21 444:25
298:21	15:16,22,25	447:17,19	271:12 272:10	445:1 453:17
better 46:5 52:2	16:3 47:11,25	448:1	272:12 323:13	455:21
88:15 90:21	100:25 127:25	board 36:13	324:22 329:11	briefings 399:16
137:12 138:11	129:16 130:14	175:24,25	329:16 330:3,6	410:12
171:13 184:12	130:18,22	boardroom	331:11 335:13	briefly 7:10,17
264:23 372:19	131:2 132:9	227:16 445:21	336:14 343:19	157:6 244:1
409:19	133:7,15	boards 386:21	345:21 352:6	287:12 317:11
beyond 195:7,9	134:23 140:18	bodies 74:8	BPO 296:10,15	346:14 364:5
229:24 428:17	145:14 148:11	108:5,17 109:2	297:7	444:25
442:14	158:6 160:9	109:4	Brad 217:7	bring 14:9 56:5
bid 51:14,21	161:19 253:10	boiled 448:2	394:7	134:20 137:15
159:15,20,21	253:13,16,19	book 40:14	branch 97:24	163:16 171:25
159:23 160:7	253:22,25	273:7 306:14	271:23	284:7 378:11
big 121:10	254:24 256:3	390:14 403:3	brand 42:22	425:13
133:12 196:7	256:19,22	410:23 419:22	breach 161:23	bringing 93:10
209:1,3 411:4	257:2,20 258:1	453:21	break 9:3,5	94:22
446:10 447:24	258:8,24 259:6	booked 256:7	82:12,19 100:5	brings 140:5
bigger 97:10	259:24 350:21	258:17	100:6,11	459:1
Bill 438:19	359:1,13	booking 258:24	121:23 142:12	broad 40:6
	Bishop's 140:12	books 391:21	152:9,11,11,14	76:22 93:4,8

270:10	bureaucracies	C-0680 209:10	calculated 4:10	389:8 442:19
broader 19:12	127:14,15	C-0791 100:24	calculates	Canada's
19:12 63:25	bureaucracy	113:14	170:10	153:14 158:3
101:14 303:19	45:2,23 125:17	C-0918 72:15	calculating	247:8 422:14
380:21,22	125:18,24	C-0954 171:10	372:5	Canadian 90:9
brought 45:17	126:22,23,24	171:14	calendar 454:11	90:12 380:6
46:10 52:1	127:1,2,6,20	C-0965 218:25	call 9:19 85:15	cancel 245:22
87:4 98:4	127:22 150:24	C-1004 237:13	150:15 158:17	cancellation
371:10 394:25	151:6 272:19	C-1025 241:25	162:21 175:22	244:2 261:3
395:2 397:20	bureaucratica...	C-103 101:22	177:13 178:21	380:23
448:21 449:14	333:3	C-1092 366:4	178:22 180:16	cancelled 124:25
bucket 190:13	bus 438:25	C-141 128:8	187:13 200:1	231:5 246:10
buckets 176:22	business 296:11	C-180 355:21	204:15 211:3	252:8 261:2
190:12	340:13 387:5	C-238 346:13	213:6 224:9,13	cancelling
budget 4:9	Butler 222:19	C-351 334:13	224:16,17	252:10
137:15	248:4,5,8,10	C-352 334:14	226:10,12,16	Cansfield
budgets 370:1	248:25 249:7	C-59 294:12	227:17 228:18	132:17 148:12
buffer 68:25	250:1	C-712 71:5	237:9 240:13	148:15 150:22
80:4 414:9	Butler's 250:22	C-72 346:21	249:6,12	299:19 308:2
build 42:16 52:5	buy 133:10,13	C-823 347:25	262:19 264:2	375:19
52:6 53:20	133:14 134:4	C-840 335:12	264:24 338:7	Cansfield's
78:8 120:12,12	bylaws 244:25	C-900 413:12	374:18 388:20	268:18 269:22
120:13,22		C-903 416:9	443:16 446:12	CanWEA
134:4 139:23	C	C-905 349:16	called 44:15	317:15 374:15
207:18 208:12	C 457:21,22	353:3	46:19 273:8	375:3,15
221:9 415:20	C- 9:9	C-910 362:1	295:4,21	cap 238:24
building 25:24	C-0057 299:10	C-911 357:23	296:11 319:9	capable 132:11
120:10 121:4	C-0072 338:8	420:2	384:20 386:17	capacities 272:5
134:1 447:10	C-0081 374:18	C-915 426:13	388:14 410:8	capacity 132:4
builds 26:21	C-0103 102:4	C-916 424:23	423:16 436:21	134:19 141:13
built 42:3,4,14	C-0121 171:12	C-917 426:5	447:16,18	141:18 168:11
42:15 54:24	C-0132 100:23	C-942 396:19	449:3	198:5 255:1,7
136:20 377:1	112:7	C-958 337:4	calling 34:18	257:24 270:10
448:14	C-0144 148:14	C-959 400:17	309:18	351:18 375:24
bullet 43:21	C-0231 340:16	C-986 402:9	calls 396:11	387:7
215:12 300:17	C-0235 29:18	cabinet 126:14	Canada 1:7 4:8	capture 227:8
301:12 302:14	C-0245 201:21	151:3 384:20	6:22 8:8 91:8	car 187:13
317:19	C-0270 43:7	396:11,12	92:21,23 93:14	396:15
bullets 303:7	C-0324 67:7	414:13 434:7	153:10,19,22	care 83:5
352:1	C-0336 145:18	cables 113:7	158:6 160:10	careful 104:8
bump 434:11	C-0374 83:13	285:25	235:2,5,7	139:22 161:14
bump-up 446:1	C-0484 224:10	CAE 198:5	260:12 263:10	436:6
bunch 126:10	C-0511 69:25	Cain 272:6,7	277:9 329:17	carefully 99:19
134:1 150:23	C-0627 70:9	325:23	366:9 369:14	carried 91:1,4
bureaucracies	C-0645 247:25	calculate 24:5	371:12 380:7,7	441:3
125:19	C-0661 173:7	24:11	387:1 388:13	carry 295:5

305:20,23 441:18 case 1 :1 50:9 73:24 90:16 91:4 112:3 135:7 137:18 139:4 174:4,5 174:18,19 175:6,17 194:11 203:15 205:22 209:1,3 213:24 235:3 235:10 261:17 265:15 294:10 306:13 366:5 402:6 450:23 452:13 case-by-case 172:6 cases 158:20 194:10 196:15 cash-flow 170:6 170:7,10 catch 378:2 categories 160:20,20,24 166:20 Catharines 89:12 caucus 348:4 402:12 caught 76:21 446:17 cause 221:18 247:7 cautioned 335:16 CEAA 88:5,8 90:9,11,12 91:3,4 Cecchini 3:9 153:2,13,14,24 154:24 155:8 157:2,4 165:2 167:12,16,23 168:2,7 180:21	183:17 186:12 189:2,21 201:22 206:10 215:20 216:11 218:6 219:3 220:3 223:21 236:7 244:1 251:9,16 263:2 263:3,11 266:8 Cecchini's 153:6 ceded 315:4 cell 145:24 146:5 297:6 298:11 333:14 cells 75:9,11 113:8 139:4 149:5 150:13 295:21 296:2,4 306:17 309:8 309:13 321:5,7 336:3 cent 141:17,22 141:25 centre 16:21 CEO 171:17 certain 51:22,22 51:23 61:6 62:15,16 85:6 97:25 98:5 108:2,19 131:25 132:10 134:10 149:9 152:17 160:8 160:24 162:16 163:15 182:9 184:10 193:15 195:1,2 197:21 202:23 283:15 299:5 318:25 345:14 349:25 351:17 366:24 375:23 427:11 certainly 43:17 93:2,20,21,24 111:17,21 122:12 156:19	183:1 184:14 184:15 186:7 188:5,11 198:23 201:14 245:5 264:8 265:8 292:15 301:2 313:22 359:4 366:20 366:21 367:5 373:10,14 386:2 certainty 58:3 147:23 215:2 certified 386:25 CERTIFY 460:3 460:15 cetera 219:18 220:21 241:11 248:25 286:2 305:25 336:9 365:21 391:20 404:19 chain 45:16 222:22 310:22 311:6,20 323:5 323:6 324:21 348:6 359:25 365:12 402:2 430:25 chains 43:16 challenge 326:9 330:25 challenges 329:14 330:18 challenging 139:1 Chamberlain 55:20 209:18 209:20 chance 73:17 264:12 360:2 397:23 change 2:16 81:22 97:9 99:1 126:24 215:15 302:2	319:4 349:20 349:24,24 351:16 361:15 390:6 395:13 409:10 421:24 425:7 433:24 436:22 changed 99:4 311:12 389:14 425:9 changes 21:8 72:13 80:24 81:3 95:24 97:5 117:11 249:1 449:14 changing 97:10 131:13,16 315:2 434:9,14 channel 113:5 channels 285:24 chapter 1:2 113:12 characteristics 368:20 characterizati... 440:10 characterize 440:17 characterized 238:15 charities 386:21 chart 237:7,10 237:15 Charter 109:15 check 86:7,8 130:1 216:21 305:24 chief 65:8 219:13 231:16 360:8,10 398:10 400:3,5 411:8 419:23 433:15 434:7 435:11 436:16 436:24 451:12 453:22 455:13	Chiefs 427:7 chockablock 67:12 choice 454:25 choose 432:24 chooses 62:16 chosen 144:19 357:14,18 378:9 Chris 230:2,8 360:6 362:14 363:23,24 364:2 420:13 421:9 429:4 chronologically 43:16 57:7 chronology 216:14 421:25 422:1 circulated 243:19 circumstance 295:25 307:16 309:25 circumstances 125:11 162:12 195:1 283:15 287:9 cite 13:3 14:7 citizens 254:11 Citizenship 2:13 City 130:8 civil 2:15 430:9 438:15 446:12 claim 143:6 Claimant 1:5 2:2 4:4 142:3 156:9 179:18 182:6 269:13 371:12 383:20 457:14,19 Claimant's 440:9 claimants' 167:14 claims 195:25
---	---	---	---	--

262:7,9,12,12 clarification 61:24 114:6 135:21 142:24 143:4 168:7 458:18 clarified 80:11 321:4 clarify 96:20 101:25 135:8 141:21 213:1 227:3 393:18 415:8 clarity 58:3 319:18 321:2 321:15 375:18 419:20 444:15 Clark 242:2 class 15:7,8,13 16:10,19 17:25 41:17 103:1,3 103:8,13,25 104:12 108:10 110:13,22 135:11 288:21 288:23 289:3,5 290:25 291:3 291:10 classes 289:3 classification 187:14 classified 14:6 clause 202:19,24 225:12,16 229:14 clean 244:6 299:25 438:18 449:9 450:8,9 450:13 clean-energy 134:2 cleanest 131:17 clear 12:3 14:5 20:16,19 21:13 34:22 46:25 65:2,13,16,24	80:20 96:2 125:7 158:15 174:22 179:14 179:24 213:13 214:23 241:19 261:6 265:15 269:25 321:6 324:13 388:11 407:17 411:8 415:19 417:9 441:8 443:22 451:2,7 455:24 457:17 cleared 97:3 clearest 203:8 clearinghouse 427:12 clearly 49:18 116:9 179:19 260:1 346:1 362:20 404:24 438:4 Client 2:6 client's 29:10 clients 117:25 124:3 125:4,14 150:20 182:17 climate 2:16 302:2 close 183:3 295:17 375:10 closed 138:25 closely 21:4 52:17 55:1,2 117:24 closer 349:7 362:6 closest 94:8 closing 133:21 133:24 coal 133:21,25 coastal 285:11 286:16 291:18 364:21 366:12 367:3,19 COD 205:9,24	coffee 100:11 coldest 138:2 Colin 171:16 collaborating 52:18 collaboration 356:20 431:17 collaborative 380:15 colleague 29:21 44:15 46:15,17 46:18 145:16 371:4 451:2 colleagues 90:7 243:22 247:10 314:22,25 370:8 372:10 372:14 378:6 402:15 408:7 431:3 collection 99:9 colourful 352:7 402:10 column 237:17 combination 42:8 come 4:22 10:25 11:1 25:25 32:15 53:4 54:14 57:6 60:5 63:15,21 79:1 83:1 98:5 101:2 113:25 125:21 127:23 128:14 131:14 133:17 158:2 161:4 164:13 201:16 203:6,7 211:8 212:11 250:12 261:10 263:6 264:20 270:1 271:9 272:14 293:4 293:20 309:12 310:24 324:19 324:20 371:24	377:14 380:25 411:14 427:11 451:12 comes 50:6 66:17 133:10 157:21 162:22 188:22 208:18 208:20 comfort 59:23 129:5 145:23 146:1 333:9 352:22 comfortable 83:4 196:22 326:24 400:6,8 401:24 coming 53:22,23 59:19 65:1 77:15,16 98:22 122:19 146:19 174:20 175:2 199:18 216:3 252:18 307:19 307:20 418:8 453:23 456:6 commence 207:9 295:3 328:19 442:22 commenced 167:7 179:7 245:6,8 298:11 340:21,23 commencement 99:8 comment 40:24 50:21 76:18 90:22 115:17 166:21 324:24 342:6,20 366:17,17 416:10 425:11 449:1 commenting 72:19 419:18 comments 116:25 136:12	181:14 237:24 238:12 325:25 411:2 417:7 418:23 419:6 419:15,17 448:11,13 commercial 95:12 135:5 139:16 157:22 159:25 160:2 162:18 163:17 164:2,4 172:13 173:9 174:9 190:21 202:3,8 202:14 204:20 206:11 285:24 379:7 commercially 179:9 Commission 92:24 93:17 94:9,12 commissioned 367:24 commissioning 136:22 commitment 132:22 291:19 commitments 250:3 committed 291:17 299:24 330:22 committee 247:21 248:5 449:16 committing 133:10,13,14 common 62:17 278:22 commonly 170:8 comms 430:20 communicate 95:19 241:14 423:22 communicated
---	--	---	---	--

49:18 86:21	112:16 116:3	264:7,11,14	confer 243:22,24	confirmation
223:3,5,6	117:12 118:8	397:15,16	251:11,13	107:12 147:9
443:24	120:19 133:2	403:23 404:16	263:9 264:25	150:13,19
communicating	146:22 218:2	405:8 406:1	conference	265:9
228:18	264:17 274:8,9	412:15 441:20	431:4	confirmed 46:19
communication	292:24 417:11	442:5 444:5	confess 368:16	219:3 246:10
25:23 60:8	completed 58:11	455:20	confidence	328:17 358:15
119:3 182:20	132:1 137:25	concerns 300:19	352:23 411:14	confirming
249:3 385:23	335:7 364:13	300:24 301:19	448:24 451:10	132:17 182:21
424:15 426:2	408:1	303:11 336:9	confidential	conflict 450:17
436:2	completely	362:20 375:23	1:12 29:24	confused 52:21
communicatio...	121:25 138:15	379:6 398:4	30:1,2,6 36:19	144:4
352:21 356:12	144:20 213:13	403:9 407:10	36:21 67:13,21	confusing 84:12
358:3,7,20,22	completing	407:22 408:18	68:4,6,7,10	142:14
360:15 412:7	122:3,4 367:13	411:2 416:1	69:15 79:4	Congratulations
420:15 424:6,9	completion	443:23	178:12,15	387:4
424:23 431:9	204:7 209:24	concerted 53:18	179:10,15	congruence
441:10	210:5,21 212:5	conclude 20:10	180:6,9,11,25	292:14,17
communities	213:3	60:12 335:21	181:3,13	connect 258:5
95:17 96:6	complicated	381:12	188:17 189:12	connecting
105:6,25 280:9	126:9 254:5,22	concluded	190:6,9 200:4	257:10
286:7	255:10	189:22 335:19	216:17 218:22	connection
community	complied 172:25	355:17	220:13 236:2,4	191:25 192:4
379:5,8	173:16	concludes 152:3	240:24 247:16	193:18 194:18
compact 385:10	complies 173:18	262:25 456:5	336:19 337:1	194:22 199:8
companies	174:2	conclusion 87:3	346:5 350:25	250:21 277:3
390:3	Complin 46:15	334:4 354:11	351:5 366:6	363:4
company 7:13	comply 50:2,7	354:14	374:20,22	cons 217:18
7:14 121:6	173:2	conclusions 41:9	377:17,21	conscience 5:22
126:1 312:22	complying 28:24	concrete 199:24	382:11 390:18	155:9 266:22
compare 380:18	components	concurred 175:9	390:23,24	382:23
457:11	111:16	concurrently	391:4,5 456:8	consequence
comparing	concept 89:9	134:1	457:5,6,7	121:12 390:2
457:9	183:10 202:13	CONDENSED	confidentiality	398:12 405:13
comparison	274:7,22	1:14	154:7 182:15	409:8 410:9
121:8	conception	conditional	183:13 458:21	411:11 424:2
competence	136:21	172:3,18	confirm 6:9,12	425:3 436:14
456:16	conceptually	333:21 334:3	79:8 96:19	456:15
competing 309:8	133:8	conditions	155:22,25	consequences
318:12	concern 9:10	108:15 162:16	182:4 240:13	405:21 434:18
competitive	343:8,11,12	202:23	245:3 267:9	452:4
131:7	344:19 400:1	conduct 83:8	268:10 323:23	consequently
compilation	405:3 447:8	114:21 117:20	370:14 382:5	300:6 375:10
286:14	concerned 48:20	369:16	383:8,11	conservative
complete 20:4	50:16 54:9,11	conducted 67:9	386:17 414:15	98:16 128:15
56:21 87:12,14	61:20 97:1	304:3	414:20 457:15	128:19,20,22

consider 99:13 166:19 181:22 214:22 263:20 265:3 417:21	403:19 404:12 405:3 406:18 446:18 448:17	86:17 120:2 442:8	76:19 77:14 80:8 85:5 101:15,19 116:11 118:12 119:22 120:17 123:25 126:22 136:8 148:21 197:7 212:21 252:17 271:18 305:6 362:16 363:17 370:5 374:16 375:15 376:23 417:10	124:6,9,14,17 125:1 129:10 129:12 130:15 130:17 131:3 132:3 133:9,16 134:25 135:2 137:9,18,22,24 140:14,17,23 141:12,18 142:19 149:1 149:21 151:11 151:20,21,22 151:23,24 157:9 158:1,7 158:9,10,13,16 158:24 159:4 159:17 160:12 161:10,21,24 162:1,2,10 163:7,15 164:5 164:7,11,16 170:16 172:3 176:4 178:18 178:25 180:17 180:23 184:16 184:21 190:19 190:22 201:16 201:20 202:16 202:20 207:25 208:5 210:9,16 211:1,9,14,15 211:16 212:2 212:15 213:4 213:11,16 214:22 215:6 216:6 218:13 219:23 220:5 221:13 222:4 222:25 224:1 225:1,23 231:10 232:5 234:6 236:8,20 239:11 244:8 245:10,14,16 250:9 252:2,20 253:17 254:5,5
considerable 166:13 354:7	75:5,6	Consumer 242:17		
consideration 218:11 282:4 443:15	constructive 92:20 93:8,25 372:10,11	contact 15:10 22:22 44:21 45:15 103:20 157:13 289:8 297:14 323:18 323:21,24 338:21		
considered 92:14 119:11 132:20 210:3 358:13	consult 40:13,15 92:20 93:8,25 372:10,11	contacted 308:17	contingent 208:20	
considers 223:16	consultant 39:18 56:5 88:10 367:2	contain 12:7 74:9 76:21 138:19	continue 23:4 41:3 100:7 152:12 182:5 188:16 189:1 265:20,23,23 321:22 339:7 340:1 366:11 381:19 406:23 423:2 438:24 456:24 459:2	
consistent 25:10 32:19 33:10 310:9 312:25 313:15 318:2 318:10 320:19 322:21 331:16 335:4 343:24 358:21 420:20 421:4	consultants 82:25 83:8 86:14 117:20 120:20	contained 12:12 129:20	contours 69:13 69:17	
consists 13:10	consultation 39:20 40:21 41:7 57:22 59:22 60:7,10 60:12,15 62:2 62:19 63:21,24 65:12 66:23,25 67:5 75:4 76:10 77:17 80:9 93:3,21 93:24 94:7,13 96:1,8 99:9 105:6,18,24 106:5 110:6 111:6 122:10 129:24 146:18 146:19,20,21 147:15 177:20 280:6,9,16 290:20 292:12 311:11 335:18 336:10 370:8 390:8 405:16	contains 12:21 12:24 190:19	contract 7:22 11:24 28:24 34:4,7,8,9 44:2 47:2 49:21,22 49:23 51:12,18 52:7,8,23 53:24 56:6,10 56:24 85:6,10 85:11 86:23 87:8 121:22,22 121:23 123:18 123:22,24	
consolidated 276:10 377:1	contaminants 130:6	contaminated 447:12 451:21 404:18	contracting 326:24 421:25	
constrain 351:16	contaminate 447:12 451:21	contaminated 404:18	contours 69:13 69:17	
constraint 128:22	contaminate 447:12 451:21	contaminated 404:18	contract 7:22 11:24 28:24 34:4,7,8,9 44:2 47:2 49:21,22 49:23 51:12,18 52:7,8,23 53:24 56:6,10 56:24 85:6,10 85:11 86:23 87:8 121:22,22 121:23 123:18 123:22,24	
constraints 129:15 147:7 350:2 353:11	contaminated 404:18	contaminated 404:18	contract 7:22 11:24 28:24 34:4,7,8,9 44:2 47:2 49:21,22 49:23 51:12,18 52:7,8,23 53:24 56:6,10 56:24 85:6,10 85:11 86:23 87:8 121:22,22 121:23 123:18 123:22,24	
construct 16:16 137:23 446:25	contemplated 57:2 97:9 213:23	contemplated 57:2 97:9 213:23	contract 7:22 11:24 28:24 34:4,7,8,9 44:2 47:2 49:21,22 49:23 51:12,18 52:7,8,23 53:24 56:6,10 56:24 85:6,10 85:11 86:23 87:8 121:22,22 121:23 123:18 123:22,24	
constructed 108:12 278:17 418:20 447:9	contemplating 397:21	contemplating 397:21	contract 7:22 11:24 28:24 34:4,7,8,9 44:2 47:2 49:21,22 49:23 51:12,18 52:7,8,23 53:24 56:6,10 56:24 85:6,10 85:11 86:23 87:8 121:22,22 121:23 123:18 123:22,24	
construction 110:5 111:3,5 137:7,19 138:4 184:15 195:4,6 245:6,8 282:19 292:12 371:15 371:17 398:12 399:12 403:14	contemporane... 330:4 331:12	contemporane... 330:4 331:12	contract 7:22 11:24 28:24 34:4,7,8,9 44:2 47:2 49:21,22 49:23 51:12,18 52:7,8,23 53:24 56:6,10 56:24 85:6,10 85:11 86:23 87:8 121:22,22 121:23 123:18 123:22,24	
	consultation-b... 39:11	content 168:16 241:12	contract 7:22 11:24 28:24 34:4,7,8,9 44:2 47:2 49:21,22 49:23 51:12,18 52:7,8,23 53:24 56:6,10 56:24 85:6,10 85:11 86:23 87:8 121:22,22 121:23 123:18 123:22,24	
	consultations 88:7 94:16,21	contents 6:13 156:1 267:10 268:11 368:24 383:12	contract 7:22 11:24 28:24 34:4,7,8,9 44:2 47:2 49:21,22 49:23 51:12,18 52:7,8,23 53:24 56:6,10 56:24 85:6,10 85:11 86:23 87:8 121:22,22 121:23 123:18 123:22,24	
	consulted 85:7 94:5 95:17	context 8:23 14:14 23:17 28:23 34:3 42:20 44:7,23 51:13 52:9 53:21 54:15 56:8 63:4 75:6	contract 7:22 11:24 28:24 34:4,7,8,9 44:2 47:2 49:21,22 49:23 51:12,18 52:7,8,23 53:24 56:6,10 56:24 85:6,10 85:11 86:23 87:8 121:22,22 121:23 123:18 123:22,24	
	consulting 7:13 9:25 62:6,7		contract 7:22 11:24 28:24 34:4,7,8,9 44:2 47:2 49:21,22 49:23 51:12,18 52:7,8,23 53:24 56:6,10 56:24 85:6,10 85:11 86:23 87:8 121:22,22 121:23 123:18 123:22,24	

255:23 256:6 256:10,15,22 257:13,14 258:10,16,17 259:13,14,17 260:2 261:3,3 261:8,14,19,22 269:2 310:5,18 311:1,17 312:4 315:15 317:4 320:20 322:24 328:7 340:20 376:16 392:12 392:13 399:6 405:13 423:25 444:14,17,17 contract.' 250:15 contracted 256:9 contracting 258:4 contractors 137:20 contracts 123:20 123:21 124:1 125:6 137:8,17 137:19 157:15 157:16,19,20 158:18 159:14 171:3 172:9,15 173:10,24 177:7 178:6 179:21 185:8 186:15,16,25 187:3,4,23 189:25 190:1 191:11 200:18 201:7 202:21 213:9 214:3,5 215:17 251:19 254:1 255:25 256:1 258:6 260:6 309:22 315:19 316:25 317:23 373:24	374:4 417:19 444:18 contractual 226:7 contractually 133:10,13 contrary 204:2 328:8 contrast 406:13 contribute 63:1 control 195:7,9 195:16,18,20 controversial 379:5 387:16 convene 32:1 convenient 156:18 316:18 321:19 conversation 96:18 299:3 341:15 378:12 395:9 445:8 conversations 351:21 convey 430:17 430:21 conveying 276:6 cookies 100:12 cooperation 93:15 coordinate 118:21 119:2 340:6 coordinated 23:5 25:20 36:8 274:10 339:8 340:2 395:18 coordination 31:5 53:16 copied 219:16 222:22,23 242:7,13,14 426:17 copies 5:2 100:23	copy 6:3 145:17 425:5 copying 311:21 353:5 core 65:11 91:19 cormorants 92:12 corners 423:14 cornerstones 149:1 corporation 386:20 corporations 386:21 correct 5:15 8:15 9:25 10:1 10:15,18 12:9 12:22 17:19 18:23 29:16 32:18 36:14 46:8 51:11 62:3 65:10 68:18 99:3 108:11,15,16 133:11 141:24 154:14 163:12 171:3 174:12 181:20 182:15 190:23 206:2,5 206:6 207:22 208:7 218:8 224:3 228:4 229:21 240:20 242:6 267:5,22 268:9 272:18 272:24 274:24 276:8 279:12 280:2,6,7,10 280:17 281:8 281:14,22 282:1,5,6,9,12 282:15,16,23 283:4,10,16,21 284:25 285:20 287:11,17 293:11,12	294:24 296:5 299:21 301:8 301:23 303:16 306:1 309:4,5 309:13 310:5,6 310:20 311:18 314:5 317:4,16 318:3,4,13,18 319:2 320:4,20 321:18 322:19 323:8 325:6 329:15 335:21 335:22 339:21 341:16 344:4 344:22 351:15 356:8 358:22 359:2 366:1 368:1 370:13 371:21,25 372:7,8 375:12 375:13 376:6 376:21 414:5 420:2 428:11 correction 268:12 269:6 373:8 corrections 6:16 156:4 267:13 383:15 386:7 correctly 120:13 291:11 correspondence 361:18 394:4 corridors 368:22 cost 169:12 170:12 Cost-based 169:8 costs 166:12,14 169:6 204:5 council 384:20 counsel 6:20,21 6:23 8:8 55:19 104:4 156:9 158:6 165:3 179:22 181:8	181:17,18,21 181:23 182:1,3 182:4,7,7 183:10 188:17 189:16 209:18 241:9,10 243:24 251:13 262:20 263:9 263:10 264:25 265:14 266:8 269:12,13,14 372:11 381:6 383:18,20 385:18 419:3 420:11 422:8 422:14,15,16 435:22 457:8 457:10,16 count 203:12 452:10 counterpart 323:10 counterparties 157:13 161:11 counterparts 355:23 362:17 363:16 380:5 country 243:7 counts 450:24 couple 8:9 28:7 56:25 110:16 128:1 134:24 138:16 146:6 147:20 157:24 251:15 257:21 271:17 302:12 305:18 316:6 373:19 444:12 456:20,22 course 8:23 19:24 52:12 53:2 54:8 96:8 114:10 131:1 188:3 190:18 193:1 255:23 301:24 333:20
--	---	--	---	---

362:16 375:1 386:9 390:5 398:13 428:6 court 2:18,18 4:5 182:12 193:19,21,24 194:3,4,11 397:25 439:8 452:21,22 460:9 courts 194:9 cover 82:12 170:11,13 182:24 304:14 353:10 covered 52:14 182:14 194:8 286:9 covers 183:11 Craig 219:12 220:24 230:8 242:20,25 CRC 460:21 create 12:2 40:10 47:7,22 48:18 83:25 161:14 177:8 225:24 356:18 431:16 451:23 creates 18:4 creating 25:24 46:21 49:11 credibility 132:24 credit 4:12 124:20 162:9 162:13 251:24 252:3,11,13,22 260:20,22 261:1 382:8 credit's 252:9 Cremades 1:18 119:9 121:5,12 123:8,12 124:18 125:12 127:23 142:17	144:1 260:1,5 260:11,14,19 260:25 261:24 262:2 265:15 377:14,22 378:18 Cremades' 143:16 crews 56:20 criteria 24:13 29:15 30:23 31:1 115:6 132:14,14 critical 55:24 92:1 criticism 415:17 criticized 134:9 cross 154:19 167:16 cross-examina... 3:4,6,11,17,23 6:21 8:4 140:10 153:23 156:8 164:23 267:24 269:13 269:25 271:1 377:23 383:20 385:5 390:21 428:8 444:4 cross-reference 373:1 cross-referenc... 285:11 crossed 167:18 Crown 2:15 75:7 107:15 139:4,8 146:11 149:2 149:10,13 221:23 227:16 255:15 268:25 269:5 270:19 275:20 278:9 282:24 284:14 295:7 297:5 308:14 313:6 313:10,11	314:9 315:17 315:21 317:9 317:20,25 320:13 331:6 331:22 371:13 Crown-owned 90:16 CRR 460:8,21 crucial 301:25 cry 344:16 CSR 460:8,21 culmination 299:3 Culture 58:19 327:16 328:25 curious 373:23 current 168:23 169:2,22 170:20,22 270:7 319:24 325:16 417:13 currently 134:10 306:23 346:25 386:17 415:4 curve 50:9 cut 179:11 200:21 216:12 216:16 220:11 236:2 336:20 336:21,22 cycle 256:18 276:20 <hr/> D <hr/> daily 410:23 Dalton 384:18 damages 153:14 Darian 2:11 data 99:9 186:12 192:24 196:17 380:4 405:2 452:17 database 95:14 380:9 date 43:13 80:23 99:8 160:2	162:22,22 163:16,18 164:3 172:13 173:9 174:9 184:18 190:21 190:22 191:5 191:17 202:3,8 202:14,15,18 202:19 203:2 203:12,15,17 204:21,23 205:6 206:18 208:9,24 214:10 218:5 222:15 234:3,4 236:25 237:1,2 237:4 239:21 239:23,25 240:13 261:11 261:18 265:6 267:5 273:3 294:21,22 307:9 359:2,7 359:9 439:22 440:7 date-stamped 297:4 dated 6:7 70:3 71:13 148:15 155:14,16,17 171:9,15 174:7 209:19,22 267:4 268:4,5 335:2 365:15 383:4 453:18 453:19 dates 172:16 179:18,21 326:19 387:11 dating 133:23 David 2:6 3:21 171:16 382:22 383:1 day 4:6 188:3,22 222:10 239:18 263:18 375:11	379:19 381:22 385:11 419:22 427:12 430:22 446:21 454:6 454:10,10 455:21 days 41:19 172:19 191:17 296:19 297:16 297:20 298:1 307:9 357:9,15 433:12 deadlines 158:9 160:12 376:18 deal 17:18 33:8 55:6 133:12 144:22 154:20 157:19 158:18 182:22 200:16 248:14 285:23 331:1 402:5 411:13 424:1 453:24 dealing 90:19 119:16 121:6 157:21 187:19 192:13 196:24 244:13 249:9 254:21 286:5 289:20 340:18 379:22 435:15 dealings 124:13 deals 94:9 158:17 291:24 371:5 dealt 27:8 90:1 92:7 121:17,19 123:14 126:20 146:14 161:3 180:2 374:7 423:13 444:23 447:15 Dear 209:20 debate 399:14 decades 42:1 December
---	---	--	---	--

209:22 319:10 decide 450:20 decided 120:11 151:5 167:16 399:24 414:11 422:21 454:21 decides 160:16 deciding 158:13 388:9 438:17 decision 20:21 52:18 117:18 117:23 151:4 159:6 215:21 215:25 216:4,5 217:15 218:7 218:16,17,19 220:4 222:10 222:13 223:17 264:2,9,24 337:16 355:18 357:6,9 361:17 362:12,13,15 363:6,8,9,11 363:13,20,25 379:12,16,20 385:14,15,19 385:21 387:15 388:4,25 389:2 389:23 390:2,6 390:6,7 395:13 395:18 398:21 402:13,25 403:13 405:14 408:24 409:5,9 409:12 412:2,5 412:7,9 423:21 424:2 432:20 432:24 433:2 433:18,19,20 433:21 434:17 434:18,21,22 435:1,2,5,8,12 435:15,23,25 436:12,18,25 437:12,18 438:1,3,4,10	438:11,12,13 438:22 439:5 441:8 443:8 450:7,25 454:1 454:25 455:13 455:17,20 decision-maker 127:12 decision-maki... 274:13 357:20 decisions 177:5 275:8 284:20 364:4 386:10 386:13 399:19 402:16,21 423:21 446:1 deck 425:10 decks 425:7,8,9 declaration 5:19 155:5 382:19 declare 5:22 155:8 266:21 382:22 declaring 157:21 decommission... 110:6 111:7 282:21 292:13 deem 28:14 315:12 deemed 103:2 130:4 315:11 default 190:22 191:17 defence 235:3 defer 91:10 deferral 87:1 224:2 299:12 300:7,13 303:10,25 304:5 305:1 306:8 385:14 385:19 432:25 435:1,23 deferred 231:2 232:2,11 define 31:1,6	34:14 59:13 defined 65:17 74:20 102:12 defining 33:12 definitely 51:17 108:23 109:16 definition 73:12 74:3,25 76:22 76:24 103:13 103:16 definitions 117:3 degree 53:15 445:13 delay 176:23 204:22 307:12 delayed 122:4 187:24 202:4 delays 151:8 164:2 171:3,23 172:10 192:1,5 192:19 194:14 194:16,17,20 194:24 195:4,8 195:22,23,25 199:9,16,18 376:11 deleted 269:8 deliberately 47:5,20 48:16 delineated 66:8 delivering 141:8 Deloitte 2:5 183:9 Deluca 242:14 demonstrates 302:23 demonstrating 114:22 department 88:12 99:12 362:18,23 363:19 368:6 369:24 370:17 371:9,20,21 departments	118:22,25 depending 287:8 depends 41:16 41:17 322:5 deposit 125:8,10 132:19,20,24 221:17,18 258:19 deposits 125:6 225:19 229:15 depths 380:12 deputy 171:1,15 173:1 177:21 270:8,17 271:5 341:4,12,14,15 347:21 356:8 393:2,19 398:2 398:10 399:16 404:5,6 405:20 407:21 409:21 410:4,7,8 411:9,13 434:8 437:3 438:15 443:24 445:3,4 446:12,21 448:23 451:8 451:10,13,19 454:3,13,14,21 454:23 455:12 455:22 Deputy's 343:20 describe 19:21 279:8 280:1 292:16,17 306:4 364:8 described 36:4 54:15 358:21 453:12 describes 288:17 290:14 describing 330:13 402:24 413:7 description 95:6 95:6,9,15 109:21 110:11	111:19 138:16 138:20 139:7 139:11 140:3 177:11 217:18 280:13 289:2 295:22,23 297:1 298:19 329:4 332:21 336:6 439:18 design 110:6 111:8 137:4,19 282:7 292:13 401:7 designate 349:25 designed 13:16 354:15 desire 414:13 desk 71:12 desperate 57:4 87:5 136:13 desperately 56:4 87:5,10 despite 79:23 87:3 138:1 detail 105:1 112:15 291:17 detailed 24:23 25:7,16 28:10 38:7,8 415:14 details 116:7 249:23 determination 315:6 326:20 333:22 determine 27:11 115:4 313:9 314:18 327:20 441:19 448:7 determined 167:6 265:4 314:12 315:14 374:3 determining 312:3 340:6 Deveaux 29:22
--	--	--	---	---

develop 11:7 38:22 64:8 159:16 167:15 217:22 259:16 277:12 295:8 298:15 317:9 356:17 364:20 367:2,18 431:15 448:16	327:23 330:14 354:8 355:6 364:17 379:2 385:17 386:4 406:17 435:20	32:25 102:18 103:20 110:19 112:18 145:25 156:8,20 235:18 269:11 272:11,12 289:8 398:3 450:9	407:10 disappear 345:17,24 disclose 181:9 disclosed 180:1 391:6 disclosure 139:20,21 discounted 170:6,7,9 discretion 379:18 discretionary 127:6,7,14 discuss 32:3 33:25 147:6 261:10 264:13 264:20 265:14 298:9 327:19 385:17 414:24 416:3 429:16 430:12,19 435:19 discussed 29:13 30:17 102:5 153:5 181:19 226:23 335:2 408:21 412:23 discussing 148:20 157:7 334:24 338:10 387:9 414:4 425:3 discussion 64:1 84:3 160:14 220:7,25 224:6 226:11,12 227:10,17,19 231:7 256:5 310:8 320:11 326:16 332:17 337:8 339:15 340:8,20 355:16,17 359:2 363:18 388:25 393:15	396:6,8,18,21 402:9,12,13 407:14 410:3 discussions 31:24 49:24 93:16 111:23 122:3 129:17 211:5,11 222:3 222:5,8,15,18 222:24 228:21 235:6 260:17 261:6,11 263:11 315:2 334:22 336:2 340:11,12 356:23 362:18 363:15 374:6 399:15,16 408:5,7 409:3 409:4,21 410:24 431:20 433:11 dispersion 110:9 111:13 displace 404:17 disposed 113:7 dispositions 286:1 dispute 359:5,16 distance 16:20 23:9 24:12 26:7 27:25 28:1,9,11,13 73:22 339:12 339:20 343:6 344:21 345:15 415:4 distances 23:18 23:21,22 26:18 42:18 122:14 340:7 distinction 191:9 distinctly 387:15 387:19 410:7 distinguish
developed 25:3 36:16 42:24 64:13 75:19 79:23 165:18 166:2,6,11,18 167:4,10 169:18 170:5 170:21,23 221:6,20 254:17 298:19 356:13 357:4 431:10 432:1	developments 31:15 64:20 215:10 dialogue 48:21 50:17 54:11 119:3 difference 65:25 158:25 203:4 376:23 different 23:24 26:24 39:4 47:11 80:5 95:21 98:19,21 99:2 118:3 131:7,11,12 135:11,13,17 135:24 138:15 176:22 190:12 191:20 234:11 250:22 255:21 271:17 349:22 368:20 386:20 457:11 differentiate 448:6 differently 33:5 125:14 126:21 328:4 difficult 206:14 206:15 386:4 387:11 434:15 difficulties 46:9 dig 378:24 digestion 21:25 diligence 158:8 158:22 159:8 159:10 315:20 373:22 diminished 66:19 direct 15:10	directed 8:22 168:22 173:8 185:1,3 303:24 436:8 direction 76:11 126:24 153:12 173:12,17 174:15,18 175:1 183:23 184:2,4 185:4 185:6 215:15 250:20 275:17 321:16 356:5 414:19 429:19 430:15,21 431:7 directions 160:23,25 173:19 174:3 175:14,15 176:1 183:23 directly 15:12 34:16 357:20 director 45:24 118:16 209:16 214:3 219:4 226:24 270:17 271:13,19 Director's 46:4 Directors 46:11 directs 173:23 disagree 12:2,4 36:9 337:25 366:14 disagreed 144:17 disagreeing 376:2 405:24	disclosure 139:20,21 discounted 170:6,7,9 discretion 379:18 discretionary 127:6,7,14 discuss 32:3 33:25 147:6 261:10 264:13 264:20 265:14 298:9 327:19 385:17 414:24 416:3 429:16 430:12,19 435:19 discussed 29:13 30:17 102:5 153:5 181:19 226:23 335:2 408:21 412:23 discussing 148:20 157:7 334:24 338:10 387:9 414:4 425:3 discussion 64:1 84:3 160:14 220:7,25 224:6 226:11,12 227:10,17,19 231:7 256:5 310:8 320:11 326:16 332:17 337:8 339:15 340:8,20 355:16,17 359:2 363:18 388:25 393:15	396:6,8,18,21 402:9,12,13 407:14 410:3 discussions 31:24 49:24 93:16 111:23 122:3 129:17 211:5,11 222:3 222:5,8,15,18 222:24 228:21 235:6 260:17 261:6,11 263:11 315:2 334:22 336:2 340:11,12 356:23 362:18 363:15 374:6 399:15,16 408:5,7 409:3 409:4,21 410:24 431:20 433:11 dispersion 110:9 111:13 displace 404:17 disposed 113:7 dispositions 286:1 dispute 359:5,16 distance 16:20 23:9 24:12 26:7 27:25 28:1,9,11,13 73:22 339:12 339:20 343:6 344:21 345:15 415:4 distances 23:18 23:21,22 26:18 42:18 122:14 340:7 distinction 191:9 distinctly 387:15 387:19 410:7 distinguish

63:13	173:6,12,15	44:25 54:8	427:15 434:4	drawing 447:13
distinguished	175:19 214:12	56:12 60:9	442:7	drawings 81:9
78:2	214:15 216:24	77:25 97:11	dollars 240:17	82:10
distorted 71:24	237:19,24	129:25 145:10	domestic 168:16	drawn 380:23
distribution	273:8,10,20,22	154:13,15	Donnie 9:21	drilling 447:1
457:2,12,15	275:4,16 276:1	157:20	140:16 374:18	drink 310:12
district 296:25	276:4,7,8	documents	425:13	358:6
297:7,18,24	277:22 278:2	19:19 21:4	door 183:3	drinking 27:4,7
298:1,17 315:5	293:15,25	40:3 59:21	doors 199:25	27:7,10,13
322:19	294:13,15	106:16 110:3	Doris 46:19 47:1	35:13 129:17
disturbed	296:8 299:9	112:8 145:7	49:6 416:15,16	129:19,22
448:25	310:8 317:12	152:15 165:4	double-check	130:2,11
disturbing	319:7,8 322:16	216:10 243:19	16:9	397:16 398:13
405:22 412:1	326:18 332:2	279:9 322:6,16	doubling 302:4	398:14 403:16
division 270:8	334:12 335:2	334:13 337:23	doubt 57:12	405:19 406:1
346:17	336:19 337:19	359:22 361:22	447:4	410:13,16
Divisional 439:8	337:24 338:5,8	362:13 363:23	downsize 129:10	411:25 442:1
452:21	338:9,17	364:24 365:10	140:21	447:12,16,25
DMO 356:6	340:15 341:2	387:22,24	downsizing	448:20 449:6
doable 60:3,4	346:12,23,24	389:8,11	129:11 141:21	449:11,19,20
136:9,16	347:5 349:16	390:11,16,23	141:25	449:24 450:6,8
138:13 151:15	349:17 351:1	399:15,17	downturn	450:14 451:21
151:16	351:11,13,13	406:2 409:13	134:16	drive 54:7 388:2
Doak 1:17	352:4,5 353:2	409:17,19,20	Dr 1:16,18 119:9	418:17
docks 89:8	355:20 357:23	410:3,6,12,14	121:5,12 123:8	driven 41:19
document 12:20	359:6 365:9	410:15,19	123:12 124:18	drivers 117:21
15:17 16:2	368:13,14,17	419:3 423:3	125:12 127:23	drives 389:8
20:23 21:2	372:15 374:13	427:16,18,22	142:17 144:1	driving 98:25
29:17,21 30:4	374:24 377:17	428:1,5 429:8	151:9 260:1,5	due 129:14
30:6 31:23	378:24 392:16	432:4,15,18	260:11,14,19	158:8,22 159:8
34:4 36:19,25	399:25 400:15	437:17,17,21	260:25 261:24	159:10 171:3
39:7,8,17	413:11,12,18	doing 24:8,23	262:2 265:15	184:23 307:3
52:17 57:10,13	413:18,20	35:18 52:10,15	373:15 377:14	311:8 315:19
57:21 63:4	414:1,3,3	55:2 76:12	377:22 378:18	334:7 373:22
67:7,12 72:18	419:4,5 420:2	125:19 132:12	draft 48:22	Duguid 217:7,9
72:23 73:15	420:7,21 421:5	134:22 149:1	50:18 358:2	342:17 394:7
74:2 78:22	422:5 423:4	149:10 159:8	359:2 360:16	394:13
84:11 87:4	426:12 429:14	180:5 182:24	390:7 420:16	Duguid's 343:11
101:12,16,21	433:9,10	186:14 214:23	420:19 424:5,9	Dumais 46:19
104:20 105:2	439:21,24	238:5 246:19	424:14,22	49:6 416:16
112:10 113:14	440:16	254:1 255:19	438:9 443:15	duplication
113:18 148:14	documentary	257:15,18	448:12 450:23	321:17
149:17 165:7	435:3,6	330:23 333:2	drafting 173:3	duration 234:9
165:11,14	documentation	340:5 369:6	273:19,20,21	241:20
166:21 168:24	12:15 13:21	373:7 407:2	291:14 332:8	duty 159:5
171:11 172:23	19:14,15 36:16	409:7,8 417:2	draw 223:7	

<p>e 296:16 297:12 457:21 458:3 e-mail 217:3,3 218:5 219:12 220:2,16 222:22,23 242:1 248:23 310:15 311:6 311:20 323:4,4 323:6 330:4 332:17,22 334:21 340:16 345:4 347:20 348:17 350:20 352:17 355:21 357:25 359:23 359:24 360:13 361:18 362:2 363:2 365:12 365:15,19 377:5 391:15 396:19 421:9 430:25 432:5 e-mails 271:8 348:17 363:10 391:14 395:25 EA 41:17 54:16 99:5 376:20,23 377:2 earlier 15:21 32:20 49:2 56:12 82:5,25 87:9 96:18 104:24 105:16 113:22 116:1 131:24,24 133:3,24 138:12 143:23 143:25 144:18 149:3 150:5 183:22 207:12 291:5 293:15 299:7 323:13 349:4 363:7 369:19 373:23 420:21 421:5</p>	<p>430:16 432:24 442:24 early 58:9 78:24 87:3,4 91:3 126:3 129:6 136:21,25 146:22 216:2 235:13 256:18 271:16 310:19 earn 169:6 170:14 easier 39:21 easiest 57:8 67:13 458:10 eastern 358:11 358:12 397:17 405:6 easy 9:22 EBR 36:7 57:22 59:5 62:16 64:2 66:25 335:17 341:20 342:9 ecological 280:25 331:17 344:7 economic 2:14 134:16 254:17 314:25 379:10 economically 314:13 Economy 274:3 edge 65:21 66:1 66:4,10 68:20 69:10 70:8 77:5 81:3 117:7,8 189:22 199:23 educate 138:17 effect 10:23 97:25 98:6,19 113:19 122:5 286:18 365:5 403:14,24 effective 4:12 234:8</p>	<p>effectively 223:24 264:24 293:17 309:1 311:2 effects 19:24 25:12 106:23 282:11 407:12 efficient 373:12 390:22 442:15 efficiently 287:22 effluent 110:7 111:10,11 effort 53:18 177:4 eight 304:14 386:20 445:24 EISO 161:4 either 4:18 89:12 163:25 163:25 164:4,6 164:12 169:23 201:8 204:2,6 212:8 221:11 255:2 439:6 454:15 455:7 elaboration 403:11 elect 133:2 141:12 elected 386:23 386:25 387:6 423:20 election 245:20 245:21 246:5 electric 147:19 electricity 2:16 102:24 134:4,4 254:14 element 94:15 274:2 elements 215:4 319:17 320:12 ELEVEN 1:2 Elgin 1:23 elicit 353:20</p>	<p>eligible 184:2,5 195:17 290:8 eliminating 321:16 Ellis-Don 137:22 email 43:5,8,10 43:11,16 44:5 44:10,13,14 45:13,20,24 46:14 47:13,15 48:3,4,6 49:6 54:12 55:18 57:2 87:10 118:11,12 emails 47:12 59:16 70:19 136:12 embedded 231:9 Emily 2:3 emission 42:18 110:8 111:12 114:3 emit 130:6 emphasis 54:6 emphasize 414:19 emphatic 385:15 employed 167:15 168:8,9 employee 272:2 employment 2:14 167:7 enable 169:9 379:12 enabled 305:8 enables 305:6 319:22 enabling 304:23 305:13 encouraged 277:17 endangered 270:21 281:19 281:20 286:8 ended 57:3 387:6 439:6</p>	<p>ends 200:4 218:22 240:24 346:5 374:22 382:11 456:8 ENE 392:19 Enercan 91:5 energy 1:4 2:15 4:7 7:16 11:7 11:24,25 12:3 13:17 21:10 53:17 94:15 112:9 118:16 119:23 120:4 120:23 133:20 147:11 157:10 165:19 166:7 168:10,13,13 171:1,16 173:7 173:22 174:10 174:16 217:7 217:11 220:2 220:21 221:3 223:9,10 226:6 231:16,23 232:1 234:7,8 234:19 237:8 237:16,23 238:13,21 242:15,16,21 243:1 244:6 249:18 270:16 271:13,20 272:8 273:11 274:3,6,14,23 275:5,9,20 276:13,15,17 276:25 277:10 277:14,19,23 278:5,9,18 279:2,4,11,13 284:1,13 285:5 285:14 287:13 289:23 290:3,5 290:10,12,25 291:1,4 293:3 300:1 302:5</p>
--	---	---	--	---

307:19 308:23	291:18 330:25	339:6,25	325:9,10	342:11
311:12 313:24	364:21 367:3	345:19 365:15	326:21 331:17	established
314:23 315:3	367:19	384:5,14,25	352:24 397:24	20:13 23:16
315:22 319:25	engineers 44:17	385:16 386:11	398:6 403:9	26:15 27:23,25
320:19,24	enlarge 9:21	387:18 392:18	418:21 438:18	38:12,13
321:11 327:14	ensure 15:17	394:12,18	438:19 439:7	143:23 169:4
328:20,24	161:9,14 231:8	395:19 402:17	439:12 441:1	170:24 291:5
338:15 342:22	252:25 319:1	409:10 422:21	450:15,21	380:14
355:16,23,25	ensured 443:12	422:24 426:16	452:20	establishment
360:2,6 362:3	ensuring 319:18	430:8 431:2	envisaged	169:20 347:8
362:19,23	enter 137:7	432:9,12	277:25	estimate 185:12
363:19 368:6	entered 88:7	433:17 436:18	EPA 98:25	186:22 196:21
369:24 376:25	180:19	441:3 446:2	equal 174:9	196:25 322:1
393:5 394:13	entering 133:16	454:5 455:16	equation 418:19	et 219:18 220:21
399:6 402:3	enters 133:9	Environment's	equity 210:10	241:11 248:25
412:18,20,24	162:20	334:4	equivalent 16:24	286:2 305:24
412:25 416:16	entertaining	environmental	104:20 402:3	336:9 365:20
416:24 417:3	333:14	13:11,15,19	Eric 271:12	391:20 404:19
423:7,8,10,24	entire 11:21	19:23,24,25	323:12,12	Europe 31:20
424:3 425:23	101:12 178:4	20:2,3,5,14	345:8 353:5,7	32:15
426:1,2 429:9	337:14 398:16	24:8 25:12	Eric's 331:23,24	European
432:8,11	448:5	33:8,11,18,23	Erie 302:22	169:14
433:21 434:16	entirely 26:10	37:7 38:14	304:16 358:12	evaluating
444:13,16	136:16 184:10	39:10 40:25	368:12 405:4	415:23
Energy's 174:3	235:13	41:1,4,8,22,23	447:23	evaluation
177:22 219:10	entirety 371:15	42:2,7,8,12,21	erosion 286:20	107:10 281:10
219:13 221:22	entities 315:14	52:3 54:23,25	errors 428:11	Evans 323:6
223:17 226:1	entitled 112:20	55:5,12 58:21	ERT 177:25	324:21 341:7
438:11	214:15	62:12,13 64:17	194:7	392:25
enforce 417:18	environment	75:21 76:6,9	especially 92:1	evening 381:25
418:2	2:16 19:22	76:14 85:15,16	107:14 120:9	382:15,16
enforceability	20:8 23:3	86:18 88:15	121:7 127:12	383:25 385:6,7
63:14	34:25 41:5,16	89:21 90:12	149:18	419:21 444:2
engage 46:5	42:17 75:22	92:7 93:3,7	essence 230:11	453:17
86:14 117:20	76:20 91:8	98:24 106:22	essentially 19:20	event 191:23
290:2,11	92:21,23 95:2	113:24 117:4	41:6 113:11	195:15,17
engaged 7:23	119:10,15	117:20 120:7	132:1 157:12	196:8,11 199:2
414:23 416:4,8	220:20 230:18	120:15 132:6	187:13 221:11	396:15
engagement	232:19 233:1	174:11 178:1	230:15,23	events 196:1
86:18	233:19 278:24	179:7 180:19	231:4 232:15	202:2,4 250:19
engineer 10:2	287:15,21	184:11 254:12	254:16 258:21	251:1 261:10
44:17 88:16	293:8,9 300:22	254:13,15	272:22 293:1	294:10 366:13
engineering	310:23 311:21	281:13 282:11	377:6 416:20	387:8,12
10:6 62:13	314:23 323:8	301:16 305:9	establish 25:8	432:17
88:18 136:5	325:22 327:15	305:15 306:3,4	34:25 143:25	eventually 175:8
285:12 286:17	328:25 334:23	321:10 324:7	230:17 232:17	228:21

<p>everybody 10:8 39:9,14 57:9 62:20,25 93:5 93:9 123:20,21 161:16 179:22 181:23,25 227:15 395:16 395:23 396:10 396:13 433:16 433:20 434:19 435:14 everybody's 427:13 evidence 5:23 153:6 155:9 175:21 264:17 266:22 331:13 367:8,10 378:11 382:23 386:7 405:17 435:17 evolve 327:1 evolved 215:13 exact 35:22 66:6 187:2 exactly 20:3 27:8 28:9 40:19 98:18 105:14 106:1 115:2 116:9 150:25 186:20 378:2 387:19 389:14 425:21 examination 3:3 3:10 5:11 6:25 7:7 82:19 152:4 157:3 216:8 263:1 265:20 269:11 291:16 381:13 456:6 EXAMINATI... 3:16,22 269:17 383:24 examining 82:9 example 35:3</p>	<p>97:24 98:2 130:8 137:7,21 166:11 194:5 279:15 295:2 305:21 309:25 311:5 329:10 363:23 406:4 423:24 426:21 examples 69:7 exceed 114:23 exception 159:12 exceptional 446:4,6 exceptions 73:23 excess 134:10 exchange 55:18 154:4 162:23 193:15 261:15 347:24 432:5 exchanged 235:4 236:15 exchanges 236:1 excited 53:20 excitement 120:1 exclude 417:24 exclusion 65:9 72:20 73:1,13 73:21 75:1 115:14 336:5 344:17 351:25 352:20 413:8 exclusions 66:8 Excuse 15:16 429:20 456:21 execute 35:24 121:21 123:22 123:24 125:24 executing 131:20 132:25 136:17 executive 384:20 exercise 163:2 208:17 209:5 210:11 261:20</p>	<p>exercised 164:6 208:25 209:2 261:21 exercises 163:3 exhausting 382:9 exhibit 29:25 70:9 71:5 72:15 83:13 100:23 101:22 102:4 113:14 128:8 140:16 145:18 148:14 171:10,12 201:21 209:10 216:25 218:25 237:13 240:3 241:2,24,25 247:24 299:10 335:12 337:4 372:21,25 373:2 424:23 425:14,15 439:17 exhibits 9:7 exist 17:23 25:4 existed 115:12 406:9 existing 19:22 31:13 89:7,11 113:7 172:15 172:16 173:9 173:24 300:7 301:15 304:1 304:10 313:6 317:20 330:24 exists 92:1,3 expand 16:17 115:16 117:21 expanded 108:12 expansion 112:25 expect 4:20 95:18 117:14 124:14 385:9</p>	<p>420:1 expectation 51:22 80:10 116:13 117:9 120:18 382:1 expectations 119:19 324:2 expected 99:25 266:15 334:25 441:12,17 expecting 25:21 49:14 89:25 expects 123:23 expedite 120:8 309:22 expenses 170:14 experience 11:3 45:11 113:23 124:4 330:15 330:20 347:7 347:14 428:4 experienced 171:23 451:11 experimenting 448:19 expert 8:10,13 9:15 89:21 experts 90:21 116:22 153:15 167:14,19 182:16,18 183:5,11,15 189:17 277:4 expire 334:7 expiry 172:16 explain 7:10,17 12:16 90:11 109:25 124:11 133:7 144:7 158:11 163:21 189:23 252:14 305:3 433:7 445:17 451:5 explained 48:5 144:18 311:22 329:13 389:3</p>	<p>explaining 303:10 352:19 363:12 388:16 explains 149:17 303:6 explode 352:10 357:11 exploded 378:5 explore 190:5 223:23 express 435:11 expressed 407:1 expressing 399:4 expressly 210:15 235:3 extend 172:12 236:7 extended 56:16 164:2 219:23 extendible 243:4 extends 190:20 191:16,19,22 241:20 extension 85:12 161:1,12,15 171:2 173:8,23 176:4,14 177:11,13,25 180:23 184:3,6 184:23 185:5 190:4,13 193:13,14 194:8 202:10 202:23,24 203:5,9 235:19 236:14 238:24 240:8 extensions 160:13,15,17 160:19,24 161:5,5,7 175:11,15,20 175:21 176:17 176:21 177:1 177:16,25 190:12</p>
--	---	--	---	---

extensively 452:19	35:12 41:3 42:23 43:3	284:6 285:17 288:22 289:5	143:19 144:13 144:16 322:15	216:2 220:1,17 224:6,13
extent 77:18 179:20 189:23 193:8 295:25 320:21 321:8	44:25 51:4 52:6,11 53:21 54:24 61:21,25 89:6,12,15	291:25 293:17 293:21 294:2 339:1 403:15 406:16	439:18 440:2,9 451:1 faith 438:23 fall 51:16 85:14	239:13 295:12 299:8 306:10 306:17,21 fed 360:21
extraordinary 196:11	90:20 91:21 92:5,10 101:11	facing 130:11 fact 5:19 29:13	117:18 130:20 132:16 137:22 146:22 150:4 166:19 303:9 362:16 438:9	Fedeli 248:18,22 249:19 federal 31:25 88:2,5,8,13 90:14,15 92:17 276:2 287:5,10
extrapolate 406:20	102:16,21 103:2 104:12 104:14,22 105:8,17,22 106:2 108:10 108:15,20 110:12,16,25 111:9,12,21,24 113:2,4,12 114:8 116:7 117:13 120:10 120:12 126:18 130:5 134:5 151:11 258:4 274:15 288:17 288:22 338:16 338:16,20,23 339:10 368:14	45:22 86:9 116:16 123:12 134:16 138:1 150:21 161:13 164:16 173:3 174:22 209:9 264:13,16 266:19 288:20 289:12 304:4,8 329:11 345:21 355:10 364:23 365:3 382:19 392:20 414:8 414:25 423:23 425:4 427:25 432:23 436:12 441:2 449:1	falling 152:7 falls 138:21 familiar 21:1 33:10 112:10 273:3 279:3 284:4 291:9,13 332:22 354:6 368:23 far 24:5 26:20 180:18 242:6 290:17 344:24 428:17 444:4 455:19 farm 137:23 farm-based 21:24 farther 343:13 348:12 fashion 328:21 faster 52:2 120:9 faulted 369:19 faulting 423:11 favour 361:9 421:18 favourably 239:5 features 35:14 76:20 108:22 108:25 280:22 280:25 February 1:10 4:2 86:11,24 86:25 88:6 91:14 122:1 174:7 214:10	fee 296:18 297:22 370:12 feed 30:10 178:13 179:11 179:13 180:7 180:11,25 181:3 190:6,9 199:25 200:13 216:12,13,16 218:21 219:3 220:11 236:2 240:23 336:20 336:21 346:3,4 351:3,12 358:14 366:5 390:20 Feed-In 320:8 Feed-in-Tariff 159:14 165:10 171:21 feedback 64:7 407:20 feeding 91:25 feel 122:24 144:15 156:20 168:3 310:11 343:14 feeling 121:5 125:13 151:3 fees 371:5,15 feet 447:2 fell 438:9 fellow 432:22 felt 398:20,21
<hr/> F <hr/>				
f 377:5 face 222:1 333:13 369:8 445:19,19 faced 398:8 454:22 facilitate 13:17 119:2 120:5,8 313:23 facilitated 120:23 364:19 facilitating 120:19 facilitation 276:13,16 277:11,19,23 Facilitations 118:17 facilitator's 355:25 facilities 13:20 14:6,6,18 15:4 15:6,7,8,8,12 15:18 16:7,11 16:12 17:7,9 17:10,11,13,19 17:22,24,25 18:7,10 19:7 19:17 21:11,19 21:25 22:8,10 22:21,24 23:6 24:2,11 26:14 32:23 34:15	facility 12:13,14 12:17,22,22,25 15:13,14 16:10 16:20 20:7 23:2 26:15 40:15 42:3,4 42:14 52:6 88:23 89:1,14 89:25 90:1,6 91:20 92:8 102:12 103:4,8 103:9,14,25 110:17,22 111:16 112:6 112:20,24 114:19,20 135:16,16,17 178:25 244:11 245:6 278:19 283:19,23	fact 5:19 29:13 45:22 86:9 116:16 123:12 134:16 138:1 150:21 161:13 164:16 173:3 174:22 209:9 264:13,16 266:19 288:20 289:12 304:4,8 329:11 345:21 355:10 364:23 365:3 382:19 392:20 414:8 414:25 423:23 425:4 427:25 432:23 436:12 441:2 449:1 factors 286:23 facts 438:13 455:4 fail 115:7 failed 450:24 fair 33:3 39:3 41:13 97:7 123:5 191:7,10 214:7 215:20 215:23 295:8 355:12 367:7 368:15 369:1,2 394:22 399:2 409:2,4,5 415:25 437:16 438:22 440:13 441:1 fairly 34:6 60:15 99:16 121:17 122:25 129:6 142:21 143:17		

455:1	336:18 370:7	153:4 155:3	49:23 51:12,17	222:4 224:1
feverishly 49:8	finance 170:9	156:7 158:5	51:21 52:7,8	225:1,22
field 32:8 56:20	financial 132:20	160:21 180:1	52:23 53:13,23	231:10 232:5
87:23 136:14	132:22 221:19	183:24,24	56:10 81:24	234:6 236:8
136:14	250:14 333:9	184:13 185:10	85:6 86:22	239:11 245:16
fieldwork 55:25	386:23,25	202:15,20	119:18 120:17	252:20 254:4,5
56:17,19,21	financially	207:1 215:12	121:17 125:1,6	254:6 256:10
57:1 85:8,13	132:11	215:24 216:19	125:7 128:25	259:13,14
87:16 118:5,6	find 13:24 14:11	216:24 268:5	129:9,12	260:2 269:2
fifth 22:6 346:22	14:18 16:6	275:1 285:23	130:15,16	273:4 308:7,8
figure 68:1,15	29:20 52:9	288:6 296:1	131:3,4,9,10	308:12,22
68:16 70:5,23	57:10 64:1	305:18 309:22	131:17,18,23	309:4,10,10,16
71:20 79:11,12	69:25 71:5	317:4,19	132:1,1,3,7,18	309:22 310:3,5
79:22 80:4	73:8 83:13	324:20 327:4,7	132:23,23	310:18,25
193:24 258:18	101:21 201:21	327:11 333:22	133:1,6,9,19	311:16 312:1,4
409:8 423:22	240:4 247:24	335:24 357:25	134:2,17,25	312:14 313:8
448:18	360:14 409:14	360:24 361:21	136:3 137:18	313:13,25
figures 71:23	fine 30:9 48:9	364:10 373:21	137:24 140:14	314:3,3 315:15
199:8	152:16 332:19	382:18 384:7	140:16,23	316:25 317:4
file 139:6 147:23	334:9 457:17	384:12 386:24	142:19 148:22	317:21 320:19
149:20 168:14	458:16,24	389:13,21	148:25 149:6,7	322:23 328:6
168:16 179:1	finish 247:10	390:13 391:19	149:21 150:3,9	340:20 349:20
244:14 249:18	264:10 316:5	401:5 416:5	150:17 151:11	351:16 373:24
356:11 386:5	364:6 368:8	421:8 424:15	151:11,20,24	374:10 376:4
416:23,25	389:6 422:1	433:8 435:7	153:16 158:7,9	376:16,16
429:16 430:12	442:14 456:9	439:1,1,14	158:13 160:12	377:8 392:11
431:8 455:14	finished 138:4	440:21 442:12	161:21,24	392:13 399:6
filed 235:2,10	219:17 407:19	445:9 449:7,11	162:1,2,9,10	405:12 417:19
files 96:3 124:2	finishing 117:15	449:24 456:25	164:10,15	423:25 444:14
124:4 125:4	fire 446:17	457:25 458:1	165:8 168:18	444:18
249:21	firm 72:13 73:3	fish 61:8 113:9,9	168:19 169:14	fits 50:13
fill 42:25	73:22 79:14	147:19,20	170:21 171:2	five 56:16 57:1
filled 220:24	123:19 242:2	270:21 286:6,6	172:2,15	61:3 65:10
final 97:6 127:11	386:17 387:3	286:6 367:23	173:10 176:4	68:19,20 69:9
212:23 235:15	firmed 89:8	367:23	178:6,18,24	69:18,20 75:12
236:6,14,15	firmly 38:12	fisheries 88:12	179:21 180:17	77:13 78:8
238:9 240:2	firms 85:8,15	88:12 90:20,22	180:22 184:16	80:5 87:14,18
242:3 261:15	86:17	285:25	185:8 189:25	116:20,22
262:14	first 6:6,19 11:5	fisheries' 379:7	190:19,22	128:4,7,12,14
finalize 58:12	16:14 29:3	fishery 113:6	196:23 201:7	128:14 151:21
finalized 65:14	53:2 55:23	fishing 95:12	201:20 207:24	152:11 160:5
146:9,24 288:7	64:6 71:12	139:16 379:7	208:5 210:8,16	206:7 215:18
finalizing 59:10	74:20 84:10	fit 7:22 10:13	211:1 212:2,14	221:7 224:22
finally 9:18 32:5	85:7 95:16,25	11:23 20:15	213:4 215:7,19	236:8 238:25
60:5 94:14	124:5,10 130:5	28:23,24 34:4	216:6 218:13	265:21,21
171:5 226:4	139:5 144:18	34:7 49:21,21	219:22 221:13	356:16 381:18

387:9,10,12 431:13 437:25 five-kilometre 57:23 61:4 65:17 68:25 69:8,11 70:7 71:1 72:12,20 73:12 75:1 76:12 77:20 78:7 80:3 81:5 81:6,16 115:14 five-minute 265:22 five-year 85:12 87:15 240:8 fixed-platform 330:22 fizzled 369:24 flag 411:5,12 446:11 454:2 flags 437:11 438:16 flash 388:1 389:8 flattening 120:24 flawed 398:23 434:1,1,2 flaws 353:21 fleet 254:14 flew 333:12 flexible 152:17 Flint 450:1 flip 14:16 36:24 37:18 68:23 83:12,16 220:16 224:18 292:6 293:19 346:17 360:24 365:17 flipping 9:20 44:12 280:2 flush 447:21 fly 26:22 focus 110:23 235:13,14	308:1 309:17 313:23 317:18 319:17 356:13 368:3 390:15 431:10 focused 91:23 362:19 focusing 395:24 396:3 399:14 399:18,20 folks 44:21 49:4 361:2 421:11 follow 9:13,22 24:22 28:16,19 39:19 43:15 47:15 57:9 59:15 62:18 73:8 125:16 127:2 160:25 176:1 182:10 184:3 215:11 441:17 follow-up 262:3 375:18 392:21 393:6 445:1 followed 156:9 175:13 185:2,5 269:12 289:22 following 6:19 19:21 25:17 46:11 73:24 108:2 119:13 207:7 211:21 241:5 280:1 306:25 308:11 319:5 354:20 356:3 365:1 431:3 follows 31:13 127:21 footnotes 387:23 footprint 254:13 321:8 foraging 91:25 Forbes 2:18 460:8	force 98:6 123:9 123:11,13,17 124:3 142:18 142:23 143:3,6 143:12 157:22 160:15 161:23 162:4,14,23 163:11,13 164:2 172:7 176:16,19,21 190:3,16,19 191:1,13,20,25 192:4,19 193:13,15,17 194:8,12,19,22 195:3,13,17 196:8,14,18 197:2 199:2,9 199:10,17 200:19 201:8,9 202:2,5,11 203:5 204:15 205:3,17,18 206:2,4 208:6 208:21,22,22 221:4 223:11 223:18 225:9 225:11,15 229:12,13 238:24 239:15 239:20 240:6,7 241:20 243:4,4 245:9,10,15 256:16,17 260:8 foregoing 460:5 460:17 foresee 196:14 forestry 2:16 270:10,20 forever 239:25 253:3 forgive 211:22 457:20 forgot 236:4 forgotten 101:4	form 16:18 297:6 299:4 305:19 445:15 formal 372:4 format 442:12 453:3 former 46:17,18 303:23 391:10 436:14 Formerly 2:17 forms 445:10 formulated 73:1 73:21 410:25 formulation 66:25 forth 59:16 118:12 363:18 forthwith 164:8 204:11 forward 53:5 122:23 146:25 147:3 164:14 212:11 237:11 238:2 244:16 247:4 293:5 317:8 327:2 329:17,24 347:19 382:9 392:1 407:4 408:12 412:23 414:14 415:17 444:2 456:17 458:14 forwarded 365:13 forwarding 322:18 360:6 forwards 44:13 found 27:18 64:2 87:13 147:18 405:22 412:1 448:25 foundation 28:4 28:5 foundations 89:4,13 280:24	four 56:21 72:11 80:12 87:12 92:4 138:12 151:21 262:16 271:22 304:15 304:16 386:21 386:21 423:13 423:18 457:25 458:1 four-corner 423:17 four-year 136:15 151:13 151:18 173:8 184:5,23 185:5 fourth 47:25 302:14 frame 310:17 framework 11:22 13:10,10 14:3 19:20 33:21 38:10,11 38:12 40:7 41:7 51:19,22 53:12 127:7 321:12 324:13 326:14,15 389:25 407:25 frameworks 324:25 frank 325:24 frankly 433:1 free 1:2 156:20 310:11 freed 315:21 freeze 211:9 216:5 223:24 234:6 239:10 frequent 249:2 freshwater 406:8 448:15 Friday 219:21 friend 269:21 413:19 friends 153:5 250:23 264:13
---	--	---	---	--

264:20 442:7 front 5:19 6:4 9:8 43:17 78:12 84:20 100:24 105:3 113:13 155:5 155:20 165:5 183:13 186:2 186:12 192:24 266:19 267:3 273:7 306:14 346:18 352:4 359:25 367:10 382:20 390:14 403:4 405:11 407:20 425:5 433:14 434:17 437:12 454:11 frozen 211:1,3 211:18,19 231:2 232:2 438:6 frustrated 125:1 full 1:11 5:18 22:16 57:25 155:4 156:25 212:23 246:19 261:15 262:13 266:17 382:18 400:25 401:24 415:18 fully 14:3 64:8 64:13 221:6 414:22 416:4,8 function 102:21 255:22,24 functionally 99:7 fund 441:18 fundamental 398:6 439:10 450:5,20 funding 369:4 370:3 funny 77:5 further 3:6,7	140:7,10 142:8 154:2 161:17 173:5 207:9 230:21 262:19 262:21 270:2 274:25 291:16 304:2 325:8 342:11 348:22 348:24 356:5 367:18 369:16 369:21 381:6 431:6 442:22 443:3,14 444:2 453:5,7 furthest 130:12 future 25:21 64:16 98:1,5 255:7 256:5 257:7,11,15 300:4 320:14 417:19 <hr/> G <hr/> g 163:2 Gail 341:3,4,19 445:5,6,22 gain 295:5 325:8 gas 23:15,23 113:8 121:18 134:2 244:9 251:6 286:2 gas-fired 244:3 gather 152:15 379:13 gathered 377:2 GEA 321:16 376:12 general 2:15 20:13 28:19 33:7 94:7 160:20 233:14 380:25 381:2 generalizations 401:20 generally 161:5 161:11 175:11	175:20 177:17 194:21 195:6 195:10,13 196:1 197:2 199:10 258:3 261:9 368:18 generating 102:24 generation 21:11 134:4,8 134:11,13 254:14 257:25 278:14,18 generous 136:7 138:8 genesis 367:16 Genivar 86:16 gentlemen 4:6 genuine 359:18 geographic 349:25 351:17 geography 298:22 401:18 Gerretsen 394:6 394:14 getting 45:3,6,9 45:12 46:3,9 49:3 60:2 66:15 101:7 121:8 179:9 255:15 310:25 369:25 395:10 395:17 408:10 452:24 GIS 81:10 give 50:10 56:8 73:17 98:1 101:19 113:3 127:5,13 132:4 140:6 144:5 161:12,15,16 175:21 191:5 192:6,8 196:25 198:19 199:6,8 202:22 229:2 270:4,4 315:25	316:2 331:9 334:16 358:5 366:2 367:5 375:14 376:22 381:5 426:6 428:7 444:8 given 124:19 133:3 148:14 161:22 166:17 184:24 221:22 225:22 247:8 255:25 259:15 264:15 269:3 299:4,5 317:24 323:1 333:9 373:13 375:10 379:10 385:10 388:1 389:7,10 401:22 409:16 411:11 423:23 427:17 433:2 436:12 441:17 444:12 449:1 450:12 455:13 gives 28:14 113:5 163:25 305:20 306:2 giving 8:22 141:14 310:4 322:22 go 4:4,5 14:23 15:5 16:14 37:18 39:9,14 40:14 60:9 63:5 67:14,21 68:3 71:11 79:2 82:18 93:4 99:20 105:4 121:1,1 121:2 127:1 129:25 140:9 140:13 166:5 178:12 180:6 180:25 182:8 183:22 189:14 199:25 200:6,7	201:3 207:16 216:12 229:24 239:25 240:22 248:1,17 254:9 254:25 256:2 280:2 290:17 293:6 297:10 297:11 299:5 302:7 305:22 306:3 316:10 319:20 322:5 322:11 325:23 326:12 331:19 337:12 342:11 343:19 345:3 346:3,13,14,22 351:2 359:22 360:23 377:19 378:7 382:14 389:19 391:7 393:14,17 397:3 399:7 401:5 402:5,25 403:2 404:10 408:8 409:11 409:17 412:13 413:10 414:8 414:12 428:19 428:22 432:20 432:21 433:23 438:5 442:11 447:3 452:25 456:20,20 goal 148:9 302:4 goes 44:14 103:12 110:4 147:21 342:2 344:9,9 362:5 378:20 414:24 415:16 450:3 going 11:23 35:18,22,23 45:19 47:15 50:4 51:23 53:5,14,22,25 59:14,16 62:9
--	--	--	--	---

80:18,19 88:10 95:9 98:9 104:3 118:20 118:23 119:14 119:25 120:11 125:21 133:17 144:22 145:11 150:4 153:22 154:15 168:22 178:11 188:17 200:12 203:19 216:10 225:23 226:2 228:16 231:1 233:13 237:11 238:2 244:2 246:14 247:6,19 248:12 250:11 257:5 261:7 273:23 279:7 279:24,24 292:23 306:11 309:21,22 311:19 318:21 318:24 319:4 319:17 320:23 322:3 323:2 330:23 333:23 335:20 336:22 337:12 342:9 348:15 353:18 363:23 367:18 372:16 377:8 378:7,10 389:25 391:13 395:17 397:15 400:9 401:13 402:5 407:14 410:24 412:3,5 412:22 416:3,5 422:22,22 426:2,20,22 429:4 433:19 433:23,24 434:6,13 437:4 439:3,6 440:15	442:5 443:4,17 443:18 446:25 447:12 450:2 450:17 451:20 451:21,22,23 452:6 455:16 458:14 Goncalves 187:18 good 4:5 5:12 7:8,9 8:5,6 28:3,4,4 69:15 85:23 90:8 101:3 124:11 131:15 137:21 153:1 154:23 154:25 157:4 165:2 182:20 188:10,15,24 189:15 265:2 266:3,5 271:2 271:3 321:21 348:13 361:3 382:14,15,16 383:25 385:6,7 421:12 425:13 448:21 449:10 goodness 325:24 gotten 255:9 governing 37:21 government 1:7 4:8 6:22 29:8 39:6,25 40:13 40:19 43:24 47:6,21 48:17 49:11 53:9,19 58:6 59:18,21 59:25 62:15,18 75:24 88:8 91:6 97:9 113:24 116:11 116:20 117:1 118:14,21,25 119:22 120:3 120:11,18 121:3,7,20	123:9,14,19 124:16,19 125:24 126:14 126:25 127:3 134:18 144:13 149:7 150:9 151:2 156:10 160:23 214:24 215:13 216:10 220:18 222:16 224:4,14 230:3 231:20 234:19 243:3,13 246:9 247:8 250:4 255:14 259:8 259:19 271:6 277:8 287:5 319:23 327:21 328:2,5 329:14 384:3 386:15 388:12 389:7 394:15,16 395:14,16,22 409:7 427:8,17 433:18 434:22 442:19 444:23 government's 216:4 299:24 302:3 328:10 government-le... 218:11 220:4,7 222:3 governmental 55:14 graduated 10:3 10:9 Grando 242:16 242:17,20,24 grant 143:2,3 175:11 176:3 195:8,24 243:3 granted 42:15 49:21 55:15 119:14 123:13 160:17,19 161:2 176:13	176:16 177:2 190:1 191:24 192:4 193:14 193:17 194:16 399:6 423:25 444:14,16,17 granting 160:13 172:7 196:14 gravity-based 89:4,13 great 66:11 74:7 75:14 76:25 77:2 104:2 109:15 302:21 356:20 362:23 368:23 381:2 390:1 398:14 398:16 403:5,7 405:3,8,11 407:12 411:13 426:9 431:18 438:21 442:6 446:10,18 448:6,24 449:23 450:19 451:9 458:5 greater 58:3 205:4 342:13 greatest 448:7 Green 274:2,3 274:23 313:24 315:3 320:19 grid 75:9,11 113:8 132:2,5 139:4 145:24 146:5 149:5 150:13 207:19 252:20,21 256:11 257:15 257:24 258:5,6 258:12,16 295:21 296:1,4 297:6 298:10 306:17 309:8 321:5,7 333:14 336:3 350:3	358:15 ground 56:18 136:10 452:18 grounded 397:21 group 2:13 30:25 32:2,7 128:3 158:17 412:24 groups 94:17 95:1 122:10,12 122:13 255:21 256:2 guarantee 259:15 guess 96:20 98:15 135:15 157:1 176:21 177:9,10 186:17 196:16 197:15 213:2 230:12 233:14 271:14 290:18 298:12 436:6 guidance 12:15 13:21 19:12,19 32:25 36:1,16 38:19 39:1,4,5 39:7,16,24 40:3,4 47:7,22 48:18 50:1,3,4 50:5 60:20,24 61:10 75:13 76:7 77:24 97:11 115:10 116:8,10 117:11 324:14 326:6 364:20 367:19 guide 128:9 guidebook 116:2 116:4 guideline 24:20 25:7 28:16,21 73:2,22 guidelines 24:25
--	--	--	---	---

27:13 28:17,18 37:12 38:4 42:23 43:25 46:21 63:9 75:19 116:15 GUILLORY 425:14 gut 151:3 guy 398:20 Guy 139:22	422:22,23 434:13 451:14 happened 85:6 115:17 126:12 144:25 150:11 230:11 261:18 329:5 331:13 387:20 409:5 435:14 447:22 454:12,17,18 happening 428:5 happens 98:12 127:21 298:25 446:25 447:10 happy 99:20 264:19 364:24 386:13 389:5 395:19 402:17 425:3 433:8 434:19 455:17 Harbour 92:13 92:15 hard 6:3 80:5 81:5 125:18 126:1 196:25 245:23 401:20 hardship 221:19 haste 142:11 hate 422:2 hazard 98:15 113:10 196:16 286:9 head 186:21 198:18 317:15 352:10 357:11 378:4 425:22 heading 21:19 21:20 73:12 74:3,6,6 84:22 113:12 275:2 278:3 283:19 296:25 heads 432:22 heads-up 323:2 455:12	health 452:17 healthy 355:15 hear 8:16 81:17 180:11 182:12 342:21 440:20 448:11 454:3 heard 9:25 47:5 47:19 48:15 345:6,10 346:8 445:9 hearing 4:7 8:11 154:7 266:3 391:3 459:1,4 hearsay 244:13 heart 449:21 heated 408:7 Heather 2:8 heavily 353:20 403:12 Heiskanen 1:16 151:9 373:15 held 1:9 93:16 123:23 250:9 258:23 327:11 Hello 140:11 help 30:25 113:18 118:20 185:18 314:18 316:4 364:19 401:14 407:12 427:5 helped 124:3 130:23 helpful 24:21 27:18,19,22 28:14,23 29:2 33:15 42:12 46:4 90:10 140:4 193:2,4 227:1 helpfully 54:15 helping 130:20 helps 28:11 140:15 Henvey 178:16 heritage 61:6	106:20,25 107:3,6,10 108:22 280:19 280:20 281:3 282:5 hesitation 389:22 Hey 454:1 Hi 269:18,19 high 55:7,13 302:23 311:8 447:2 high-level 31:22 35:17 60:17 89:24 highest 317:24 328:13 highly 107:20 206:17,17,19 hire 10:21 86:6 88:10 137:9 hired 86:2,5,19 hires 195:10 hiring 86:11 87:7 historic 387:17 historically 41:2 42:7 404:18 history 384:3 Hmm-hmm 225:4 hold 221:12 230:15 232:16 335:25 372:9 388:14 holding 147:4 160:11 252:20 258:12 home 137:8,13 292:22 honestly 18:11 86:7 354:5,23 honorary 119:12 121:13 honour 5:22 155:8 266:21	382:22 honourable 121:20 384:18 hooking 350:3 hope 298:13 hopeful 188:22 hopefully 216:14 456:15 hoping 345:22 Hornung 269:24 374:15 hot 45:10 hour 4:13 136:13 152:10 156:15,25 189:1 322:4 382:2,8 385:10 444:12 456:11 hours 381:25 house 299:17,20 housekeeping 4:17,20 456:10 456:20,22 Hoy 348:7 huge 149:22,23 hundreds 55:4 119:17 446:23 hung 151:7 Huron 353:16 354:2 355:2,3 355:11 405:4 hydrological 110:9 111:14
habitat 35:15 91:21,24,25,25 92:3,11 95:12 113:9 139:18 286:6,7 367:23 379:7 habitats 369:5,7 half 4:13 86:20 87:21 152:10 156:15,25 192:15,20,22 199:4 255:11 300:13 322:4 382:2,8 hallmark 449:23 Hamilton 89:12 92:13,15 400:1 400:21 hand 33:15,15 35:11 53:14,14 91:17 123:19 254:7,8 415:19 452:9 handled 154:6 hands 246:19 391:1 Hang 424:13 426:6 happen 85:9 87:16 120:5 126:15 138:9 138:11 251:23 252:3 293:2 296:24 405:21				
H				
I				
		I		
		i.e 56:6 314:14 417:13 Ian 43:19 48:3 55:20 233:9,10 239:13,14 ice 26:18,21 27:2 446:18 icing 26:19 idea 12:1 31:18 80:25 90:8 242:18 254:1		

295:15 297:25 313:8 318:24 319:15 320:16 333:21 346:10 349:11,23 351:16 357:19 359:11 364:2,3 397:14 407:3 407:24 423:9 448:21 identical 105:16 identified 34:11 34:13 139:19 271:13 348:17 358:9 380:5 identifies 95:10 278:7 identify 271:10 314:9 identifying 416:1 IESO 157:8,14 158:22 255:12 255:17 444:20 ignored 47:6,20 48:16 437:2 439:9 ill-intent 127:20 illustrates 68:16 79:13,22 immature 166:14 immediately 284:8 381:19 424:24 Immigration 2:13 impact 24:2 27:11 41:10 75:21 115:5 147:20 191:19 191:23 195:20 281:13 300:20 302:1 446:16 456:11 impact? 418:22	impacted 27:15 impacts 20:10 20:11,12 23:21 41:11 76:6,8 76:15 120:15 147:19 325:9 379:11 380:11 405:2 implement 115:13 355:18 423:22 450:11 implementation 98:13 313:24 implemented 61:17 97:13 274:23 357:7 implementing 362:11 378:11 implications 213:23 303:20 implicitly 129:20 implied 98:10 imply 133:15 important 8:15 8:19 35:2 56:17 67:4 94:15 114:25 130:4 148:24 149:16 161:9 177:6 380:5 395:15 405:14 411:11 423:15 436:11 437:10 437:24 455:14 importantly 384:4 impose 215:22 imposed 158:9 277:8 impossible 122:6 206:10 207:16 impression 49:10 50:22 54:17 144:24 146:21	improve 326:12 improved 21:9 in-person 445:16 inadvertently 177:8 inboxes 458:11 include 22:21 23:7 26:5,9 35:12 74:11 93:4 228:11,11 290:25 320:3 324:16 338:20 339:11 368:10 415:3 included 11:20 11:21 17:25 33:18 106:16 327:7 334:15 364:18 includes 16:11 16:13 69:20 90:15 166:2 282:8 311:7 including 1:12 11:22 14:5 26:1 32:14 42:17,18,19,19 61:2 62:22 85:25 86:1 94:1 110:5 115:18,19 120:2 147:4 210:10,17 215:9 220:18 225:9 229:11 278:15 283:3 293:4 319:18 384:3 432:12 incompatible 221:25 inconsistent 358:23 378:14 Incorporated 386:18 incurred 231:13	232:7 indented 352:1 Independent 2:16 independently 226:21 index 1:14 3:1 273:15 372:23 372:25 373:3 indicate 100:18 306:7 364:6 458:22 indicated 14:22 25:2 96:15 166:10 167:12 179:19 181:22 271:4 272:25 273:18 284:4 323:20 352:22 369:15 393:16 397:13 416:2 indicates 25:19 301:9 indicating 283:13 318:24 indication 43:23 64:25 327:25 458:19 indications 49:5 individual 24:10 371:19 400:21 indulgence 152:14,23 industrial 7:16 446:23 industries 122:17 industry 60:2 62:23,24 67:1 120:2,3 123:6 150:12 277:21 317:16 inference 325:17 influence 385:13 385:21 402:25 434:25 435:24	influenced 403:13 inform 32:7 58:10 64:7 139:12 277:6 284:19 380:10 information 1:12 9:19 30:1 36:21 39:5,5 46:7 67:13,21 95:8 147:5 153:15,18,20 154:1,3,5,10 154:10,13,16 154:18 162:11 179:17,19 180:1 181:9,13 182:22 183:14 186:1 187:22 187:25 188:6 188:23 199:24 226:19 238:18 264:10 265:5 275:13,18 277:2 278:21 284:17 286:15 298:20 301:10 303:2 326:22 327:20 329:12 336:8 344:5 348:2 357:13 358:24 365:13 368:19 370:24 371:19 378:15 379:13 390:18 391:5 458:20 458:20 informed 50:3 299:14 343:2 448:10 455:15 informing 432:11 infrastructure 2:14 136:19 137:3 276:18 278:16 287:4
--	--	--	--	--

327:15 328:25 330:24 Ing 45:21 46:2 49:6 118:11,13 118:15 392:22 392:24 initial 30:18 75:13 116:17 159:14 184:15 285:10 288:3 367:17 425:11 initialed 453:22 453:23 initially 7:21 143:3 207:11 367:24 369:18 384:21 442:23 initiate 336:6 initiated 311:15 368:2 initiative 271:21 initiatives 11:25 364:14 Inlet 178:16 Innovation 384:17,22 input 34:1 56:4 58:8 60:2 62:21 66:24 67:1 72:4,6 75:6,6 87:6,10 297:8 414:18 inquiries 45:1 insight 325:8 386:18 insightful 68:13 insinuated 49:2 insist 252:22 install 16:17 installed 108:12 instance 135:6 162:16 instances 28:16 102:1 institution 333:10	instructed 46:6 241:14 455:9 instructions 249:24 250:2 441:9 insufficient 405:17 406:20 intact 211:1 221:13 intake 27:10,20 35:13 intakes 27:4,5,7 27:8 129:23 130:7,12 integrated 102:22 integrates 274:10 intended 82:7 89:7 276:4,9 336:15 415:8 intensely 389:18 intent 39:9 78:3 126:19 131:15 342:10 415:2 intention 223:22 interact 332:23 interaction 29:3 374:2 interest 61:10 101:17 282:24 407:2 interested 52:12 58:8 95:1 169:1 172:20 185:16,21 186:15 249:21 271:15 295:10 297:12 380:8 385:11 412:6 interesting 127:25 323:4 interim 265:3 interject 14:22 179:16 interjecting	167:12 internally 313:22 international 2:14 92:24 93:17 94:9,12 442:2 interpret 39:25 interpretation 59:14 287:25 331:15 interpreted 61:15 interrupt 143:22 267:17 302:8 350:5 377:23 408:17 422:3 458:7 interrupted 428:9 intimately 368:23 introduced 419:4 introduction 165:8 273:25 inventory 276:10 investigate 368:10 investigation 107:7,23 281:6 investing 330:23 investment 169:7 170:12 252:24 253:4 258:21,23 invitation 426:15 invite 365:20 invited 29:7 394:7 426:17 426:20,22,24 426:25 427:2,3 432:11 involve 154:16	356:22 431:20 involved 7:14 46:21,23 48:21 50:17 71:16 91:22 118:16 123:2 124:2,23 125:4,9 130:15 130:19 136:19 136:22 143:24 144:8 145:1 149:4 158:16 166:24 167:8 169:19 172:24 173:3 174:19 175:2,4,5 178:5 193:15 193:25 215:21 218:6 220:9,10 222:8 244:14 251:4,6 332:3 332:6,7 333:5 340:12 347:24 357:20 362:18 363:8,11,15 371:9,20 394:17,20 399:19 412:9 432:23 438:4 449:17 involvement 7:18 118:21 168:18,19 174:15 351:20 363:9 437:17 437:23 involves 332:17 334:22 412:24 involving 194:3 432:5 irrelevant 191:3 irrespective 62:8 irresponsible 236:20 239:18 irritate 352:9 irritated 378:2 is10:30:43 83:13	island 7:19 10:17 29:5 67:10 69:3,3 69:18,22 75:8 76:12 77:3 90:17,25 92:13 115:25 310:24 311:7 328:11 330:16 356:24 406:15 431:21 islands 69:21 74:10,25 75:16 issue 23:24,24 23:25 25:16 28:12 52:11 80:11 91:17,19 92:16 97:18 111:19 114:4 116:25 117:19 122:21 130:3,3 132:6 138:15 146:5,14 150:20 153:4 154:10 181:18 269:22 290:4,9 333:24 334:19 337:13 343:17 347:25 366:10 371:11,11 379:22,23 385:17,25 390:5 396:2 400:23 403:12 413:22 419:14 423:12 427:10 429:5 435:19 436:4 447:14 454:22 issued 40:1 44:25 51:13 82:24 137:21 137:22 146:5 149:24 150:1 174:14 177:21 289:23 294:21 294:23 305:5
---	---	--	---	---

<p>issues 4:17 23:23 35:11 45:18 46:20 47:1 54:9 55:24 57:4 61:1 67:2 75:22 92:6 95:10 122:22 130:11 139:12 144:23 147:20 150:7 153:17 157:19 161:3 194:18,22 281:19 285:23 286:5 298:10 299:14 301:18 325:10,11 348:23 355:2 363:16 376:2 380:24 397:17 408:21 410:13 410:17 412:24 415:24 416:24 418:1,6 423:7 423:8,10 424:4 426:2 427:10 429:10 432:8 441:19 456:10 456:20,22 it'll 216:14 233:22 item 5:11 43:2 217:13 228:22 283:25 284:4 285:23 432:14 items 28:17 34:11 92:6 110:15,16 226:25 227:20 227:21 228:6 286:9 424:5 iterate 327:1 378:17 iterations 82:3 138:24 iterative 425:8</p>	<p>J</p> <hr/> <p>J 457:21 January 155:14 155:17 170:25 171:9,15 209:19 218:5 268:5,13 294:21 335:8 383:4,7 394:3 396:3 399:22 400:15 408:6 408:22,23,24 410:22 412:11 419:8,13,14,20 423:6 425:17 429:11 433:10 433:12 453:13 453:18,19 454:7,16 Jeffrey 394:6,10 414:17 Jenna 2:9 Jennifer 456:25 jeopardize 171:24 JoAnne 222:19 248:4,25 job 125:19 126:16 138:8 167:9 455:2 John 2:2 3:9,21 155:7 157:2 382:21 383:1 Johnston 360:1 joined 168:8 270:18 joining 183:6 joint 92:24 93:17 94:9,12 445:20,21 Jonathan 348:16,16 JP87 248:1 judge 440:24 July 67:8 138:1</p>	<p>146:4 241:3,8 241:13 242:2 243:8 jumped 48:8 jumping 107:25 June 6:7 55:18 56:9,18 57:5 57:11 59:14,15 59:18,20,24 60:6 80:8 87:11 129:24 138:5 146:4,18 146:20 147:15 173:6,21 241:17 338:10 340:4,9 jurisdiction 90:14,15,17 93:23 94:1,3,8 jurisdictions 31:16,17 32:14 Justice 247:21 449:5,21 450:11</p> <hr/> <p style="text-align: center;">K</p> <hr/> <p>K2P 1:24 Kam 2:9 keep 30:9,10 34:17 36:21 44:12 200:12 201:2 203:19 216:5 217:24 219:22 264:18 385:10 391:20 391:24 408:9 449:6,11,24 450:5 keeping 259:22 Ken 272:6,7 353:5,7 365:19 Kennedy 2:3 457:21 kept 259:20 385:8 key 274:2,21</p>	<p>320:11 kick 208:9 kicks 84:25 kill 348:20 349:9 361:4 363:25 421:13 432:6 Killeavy 209:14 209:15,18 248:7,9 killed 449:2,19 kills 361:8 421:17 kilometre 116:20 kilometres 61:3 65:10 66:9 68:19,20 69:9 69:18,21 75:12 77:13 78:8 79:18 80:5 81:15 116:22 116:23 128:4,7 128:7,10,12 345:2,17,23 349:8 kilowatts 198:2 198:10,10,13 kind 20:6 35:16 44:21 95:9 119:25 128:9 130:9,12 157:13 164:5 176:17 182:22 194:5 196:24 204:6 252:24 253:3 255:20 258:18 260:8 265:1 333:11 333:18 427:12 446:19 kinds 72:5,6 125:22 194:13 194:16,17,20 272:4 Kingston 89:7 130:8 256:12</p>	<p>257:9 361:5 421:14 432:7 432:25 433:4 km 348:19 417:18 knew 49:17 50:11 52:15 55:11 77:15,16 116:4,8 118:4 122:9 128:6 136:14 347:21 395:16 397:22 423:12 426:24 438:14 439:5 445:11 447:2 450:13 452:13 knocking 432:22 know 5:2 9:4 10:24,25 26:9 26:13 28:9 31:19 33:1 35:4 39:8,14 45:7,9 48:4 49:14,15,24 50:2,10 53:22 53:23 55:8,9 66:16 76:16 77:16,18 80:13 86:15,16 90:21 91:14,18 92:18 92:19 94:3 95:9,11 97:8 97:20,21 98:18 98:22 114:10 114:14 123:16 125:11 126:21 129:1 134:6 136:6 138:6,7 139:18,23,24 139:25 144:19 146:19 147:17 156:23 168:3 174:19 175:1 176:15 180:3 180:18 182:5 182:17 184:18</p>
--	--	---	---	---

185:11 186:13 186:19,20 196:23 198:4 198:15,16,17 198:25 199:17 207:13 208:24 211:23 213:21 214:1,6 219:6 219:7 222:15 222:18,24 223:2,4 225:19 226:22 233:8 233:20 238:1 242:7,17 243:7 244:21 245:2,3 245:11,12,23 245:25 246:13 246:22 250:6 254:22 255:18 256:3,8,14,15 257:16,17 258:22 259:3 259:13 263:11 265:10 266:7 291:6,14 298:14,21 301:3 313:21 316:17 322:25 329:25 330:1 333:1 337:18 341:2 349:1 354:5 357:16 360:2,7 363:3 364:4,22 375:7 381:22 386:25 388:2,19 390:25 392:18 393:8 395:1 399:7,15 402:5 405:12,20 408:17 409:13 411:25 414:8 416:15 418:24 425:7,10,12,20 428:9 432:13 434:15 436:19	436:21 437:8 438:1 440:5 442:19 443:2,9 446:22 447:11 451:11,20,25 452:1,3,4,8,19 knowing 60:2 knowledge 11:3 18:8 94:2,2 131:19 158:15 167:5 298:21 329:22 333:16 336:15 346:8 349:7 352:23 379:13 432:10 knowledgeable 142:15 known 118:18 147:6 238:5 336:8 knows 95:11 359:10 <hr/> L L 457:22 lack 25:14 351:18 434:1 436:25 lacked 29:14 lacks 30:22 ladies 4:6 laid 68:19 120:21 lake 89:15 113:7 286:1 297:8 302:22 304:15 304:16 305:24 355:2,3,4 358:11,12 368:11,12 397:17 399:11 403:21,22 404:14,15 405:4,5,6 446:24 447:23 449:8	lakes 66:11 74:7 75:14 76:25 77:2 109:15 270:20 302:21 350:1 353:16 354:2,15 355:11 356:21 362:23 368:23 381:2 390:1 398:14,16 405:3,4,8,11 407:12 431:18 438:21 442:6 446:18 448:6 450:19 451:24 lamented 131:13 Lana 242:14 land 53:3 69:2 69:19 75:7 90:16 107:15 129:5 139:4 146:12 147:1 149:2,10,11,12 149:14 183:25 184:13 221:23 268:25 269:5 270:19 275:20 275:23 276:2 278:9,12 282:24 284:14 284:17 295:6,7 295:21 297:5 308:14 313:6 313:10,11 314:9 315:17 315:21 317:9 317:20,25 320:13 331:7 331:22 341:24 344:17,22 348:11 370:11 370:16,18 371:5,14,16 lands 113:10 150:16 286:9 landscape	280:23 lane 129:14 lanes 90:19 language 59:5 352:7 402:10 large 91:18 93:6 137:12 173:10 185:9 187:8,12 307:3 large-scale 399:12 405:2 largely 137:15 larger 197:3,8 252:18 largest 448:19 late 99:16 138:12 189:19 265:6 375:4,5 385:10 408:22 420:10 422:7 428:15 452:24 456:11 latest 13:16 78:15 307:6 latitude 53:9 Laughter 121:14 196:5 200:24 263:16 265:17 266:13 267:25 453:4 launch 170:24 308:8,13 317:22 362:22 launched 260:18 260:24 273:5 law 2:15 210:9 242:2 291:20 291:22 398:6 398:21 439:12 450:21 Lawrence 3:15 266:4,16,21,25 269:18 271:2 287:14 299:11 331:9 359:22 364:6 369:14	373:21 381:10 laws 62:1 lawyer 62:12 63:12 65:2 119:10,12 121:13 122:6 123:17 242:2 287:24 290:17 291:11,23 lawyers 156:11 241:4 242:14 388:12 lay 35:11 129:7 layman's 230:13 layout 68:17 69:12 70:24 71:9,22,25 72:7 77:12 79:14,22,25 81:22 82:2,4 98:21 129:8 140:13,19 layouts 78:7 80:15 82:5 98:20 116:17 128:2,6,17,18 128:24 145:8 lead 95:4 127:1 127:2,21 150:3 194:19,22 195:1 293:9 298:13 leader 125:17 Leah 29:22 34:11 44:10,17 44:20,25 45:13 45:14,22 46:8 Leamington 303:13,15 349:5 learn 215:24 298:23 331:19 learned 206:25 446:21 learnt 47:4,18 48:14
---	---	--	--	---

lease 149:13	216:15 265:13	150:18 151:4,6	line 79:16 80:2,3	96:1 113:3
leave 67:19	265:20 322:11	153:13 154:1	134:20 172:1	116:19 131:6
160:14 179:23	351:2 381:17	187:18,22	188:21 286:25	152:7 180:4
181:24 182:1	390:10,20	234:23 235:2,8	315:3 331:4,11	189:18 216:8
190:5,8 236:20	409:11 412:13	453:25	340:13 343:25	249:5,13 264:7
253:2 269:24	412:16 413:10	letting 222:24	344:10 382:14	268:1 287:18
437:12	428:22,22	250:5	393:7	299:23 303:7
leaves 325:16	440:20 442:15	level 45:6,7 46:4	lines 139:15	379:9 384:2
326:3	452:24 456:24	88:5,13 114:24	147:20 224:22	397:22 401:4
leaving 88:9	letter 124:20	125:14 222:6	Linley 220:23	404:10 445:17
180:13 353:12	129:4 132:16	271:5 323:7	272:15,21	live 219:3
led 45:12 143:20	145:15,17,19	340:24 341:1	310:11 311:21	LLC 1:4 4:8
194:12 195:3	145:20 146:1,2	374:6 434:21	312:9 314:11	Lo 355:22 430:3
338:7 432:14	146:4,23 148:8	levels 39:4	314:22,25	430:4 431:1
449:16	148:11,15,17	255:21	332:20 352:5	load 134:17
left 54:16 144:23	148:21 149:16	liaison 277:2	357:14	lobbied 243:16
182:4 189:21	149:18,19,20	liberal 348:2,4	Linley's 272:14	local 106:6
272:1 303:7	149:23 150:11	liberal.ola.org	Lisa 2:18 460:20	114:16 280:16
352:20 378:10	150:21 151:5	348:18	list 18:22 95:1	locally 298:21
441:13	153:12 162:8	licence 343:17	96:3 105:5	330:23
left-hand 248:19	162:13 171:9	licences 113:8	108:8,9 110:4	located 15:10
337:10	171:15 173:4	275:14 286:2	279:22,25	103:20 244:4
legal 63:14	173:21 209:14	life 445:10	292:11 457:12	289:8
242:1 287:25	209:17,21	lifted 206:24	listed 30:6	location 15:9
455:1	241:3,7,13,16	207:3,14	109:25 118:24	27:9,10 103:18
legend 80:2	250:7 251:23	208:11 224:2	299:12	108:13 109:9
legislation 292:1	252:3,9,10,11	305:1 306:9	listen 63:2	113:6,7,8
292:7	252:13,22	352:25	289:16 366:8	117:8 283:7
legislative	260:20,22	lifting 300:6	387:10 407:9	285:25 286:1
270:11 274:18	261:1 268:17	326:19 380:2	409:18 415:24	287:2 289:6
legislature	268:18 269:9	light 115:17	438:25 441:23	295:22 298:22
247:22 384:7	269:22,23	353:14,25	listing 159:9	349:13
387:1	306:21 307:1	355:9	lists 110:2 159:4	locations 28:2
legitimate 379:6	307:21,25	likewise 27:19	228:12	82:6,7 113:6
length 17:1	317:13,14	88:11	literal 446:20	117:5 380:13
234:9 236:18	331:12 332:2,4	limbo 260:6	literally 55:3	logic 81:8
241:21	332:8,10,16,20	limit 141:24	125:5	London 137:24
lesser 53:15	333:9,11,18,20	348:23,24	literature 76:7	long 13:12 30:8
let's 21:6 36:18	335:14 374:14	limitations	litigation 193:19	41:25 82:14
67:19 71:11	374:14,16,25	415:9	244:24	83:3 101:16
101:17 117:1,2	375:2,6,10,12	limited 26:2	little 7:11 17:22	110:4 130:7
117:3 126:3,4	375:19,22	166:12 228:16	30:8 33:4 44:7	135:15 150:19
152:10 156:14	412:11	229:20 370:1	52:21 56:8	162:21 191:6
177:12 180:11	letterhead 96:7	limits 42:18,19	69:16 71:23	200:25 233:7
189:1 203:19	letters 96:5	120:14 152:18	82:9 84:12	264:1,23
203:20 206:24	132:22 150:1	Lindsay 171:16	86:3 95:20	271:25 288:12

315:25 316:3	421:1 425:10	129:3,4 130:6	188:5	320:13 361:18
322:10 363:18	437:4 441:1	134:12 145:9	majeure 123:9	386:7 399:19
374:11 381:21	444:2 450:1	150:4,12 187:7	123:11,13,17	412:9 435:2
382:3 385:9	looked 36:6	216:9 348:11	124:3 142:18	438:4
387:10 403:11	128:2 129:22	379:6 438:17	142:23 143:3,6	manage 125:20
408:13	293:15 321:12	lots 25:23	143:12 157:22	157:15,18
long-stop 208:24	325:5 368:12	111:22 330:14	160:15 161:23	178:4 255:4,25
long-term	446:10 448:5	330:20	162:4,14	256:5
133:20 255:13	looking 20:7	Low 183:8	163:12,14	managed 91:23
255:15,16	36:12 40:19	lower 141:13,15	164:2 172:7	management
256:23 260:8	59:9 61:1,4	221:16	176:19,21	36:23 110:7
longer 121:21	73:14 89:16	Lucas 233:1,18	190:4,16,19	111:10,12
263:22,24	114:18 130:10	240:12 397:4	191:2,14,20,25	133:22 158:1
264:3 307:8	168:24 208:16	411:12 413:15	192:4,19	253:17 255:24
362:5 382:2	238:19 254:19	413:23 414:9	193:13,15,18	270:12,20,20
look 9:16 20:9	292:4 339:19	426:19 444:25	194:8,12 195:3	367:2
21:6,22 22:16	348:22 359:20	451:14	195:13,17	manager 72:5
27:9,10 33:17	368:22 432:10	lunch 142:12	196:8,14,18	124:1,7,14,17
35:18 36:18	435:17 456:17	152:9 188:14	199:2,9,10	137:12 157:9
40:16 43:20	458:22	188:16,25	200:19 201:8,9	158:16 168:12
45:20 55:8,22	looks 4:25 69:11	189:1,3,7,10	202:2,5,11	214:4,5 272:8
57:24 60:9	70:6 71:3,10		203:5 204:15	managers 98:17
64:5 71:6	71:24 72:9	M	205:3,17,18	138:8 178:5
77:19 83:5	83:15 96:11	M 2:18 10:3,7	206:3,4 208:6	297:8
98:2 99:21	223:16,16	457:21	208:21,22,22	manages 123:20
104:18 108:7	332:19 351:10	M5H 1:24	221:4 223:11	managing 7:15
121:15,18	402:4 417:5	MacDonald	223:18 225:9	124:9 178:6
140:22 208:18	425:21,23	86:16	225:11,16	254:25 255:8
208:19 217:2	loop 128:13	MacLennan	229:12,13	mandate 279:6
217:13 254:20	loose 76:25	219:12 231:15	238:24 239:15	mandatory
283:5 286:23	loosely 76:4	231:19 234:7	239:20 240:6,7	277:16
288:9 290:19	lose 129:14	242:20,25	241:20 243:4,5	Manitoba 10:4
292:11 293:18	309:10	362:2	245:9,10,15	10:10
296:14 310:21	lost 87:21,23	magnitude	256:16,17	manner 27:9
334:21 343:15	292:4	233:4,6,16	260:9	123:24 148:5
348:13,17	lot 4:25 20:3	mail 348:5	majeures 176:16	195:2
349:17 361:11	39:12 45:8	main 77:2 113:5	194:19,23	mantra 126:3
361:25 365:9	46:3 53:9,16	157:13	197:2 199:17	manufacturing
365:10,11	53:21,25 75:11	mainland	major 74:8,25	89:25 90:1
367:20 375:24	76:7 95:8	341:24	majority 110:15	mapped 95:13
377:2,4 382:9	110:8 111:11	maintain 235:23	187:5 197:4,18	139:19
389:17 390:10	113:25 118:23	252:24 308:3	making 45:1,15	mapping 354:7
391:11,15	120:1 124:9,11	309:2	53:18 81:22	380:12
396:19 406:3	125:21,23	maintained	213:2 215:21	maps 297:6
414:2 420:13	126:13 127:5	211:2	243:14 279:10	March 70:3
420:22,25	127:11,13	maintaining	315:5 318:23	241:17

Marcia 392:19 392:22,24,25 416:10,16	14:21 18:16 19:1 20:19 27:14 34:18	75:21 77:21 116:14,17,23 128:10 132:10	198:17,22 256:11 257:8 257:10	162:16 164:12 212:9 287:6 305:23 410:6,7
mark 205:14 372:25	52:16 53:8 60:17 62:7 63:25 65:14	137:4 158:9,23 159:6,11 160:8 163:18 208:24	MEI 45:24 53:17 118:16 311:11	427:8 443:16 445:25
marked 68:5	73:11 77:1,2 81:4,12,13,13 81:16 89:23	259:17,21 324:10 376:16	Melancthon 330:16	methodology 20:13,14 35:1 169:13
market 126:2	91:16 96:25 119:17 123:12 123:13 159:24	meeting 29:8,13 30:12,18 76:1 137:5 147:5	Melissa 2:10	methods 320:12
Mars 2:6 10:20 233:2	197:16 199:16 200:21 204:14 256:8 257:2,22	148:7 219:18 219:19,21 224:6 226:24	members 6:24 58:8 100:22 101:14 156:12	metre 24:17
mass 315:18	258:7 259:9 262:6,6 346:4 349:21 354:4	297:16 298:5,8 298:8 299:1 327:4,9,11,18	memo 410:21 419:20 451:14 453:16,21	metres 17:3 22:1 22:12 24:15 28:13 40:16
masses 69:2	357:10 363:10 366:12 377:25 378:1 408:20	327:24 328:22 329:1,5,12,23 330:9 331:25	383:21	Michael 209:14 209:17 248:7
massive 406:13 448:17	437:15 442:5 446:6 452:2,5	335:25 336:7 375:2,8,9,15 375:17 393:6	members 6:24 58:8 100:22 101:14 156:12 348:3 375:21 383:21	microfit 172:17
master 85:12 291:10	meaning 104:11	393:25 394:4 395:3,7 396:1 396:12 404:6	memorized 57:19	microphone 182:10
master's 369:6,6 445:14	means 14:16 42:24 62:6 132:4 146:13	408:22 410:8,9 410:10 423:7,8 423:10 424:4	memory 113:19 290:18 334:8	mid-level 34:12 44:17,22 45:1 45:23 46:6
Masters 10:5	147:2 159:1 223:15 257:4 257:23 318:6	426:3,16,17,22 427:13 429:10 432:8,13,13	mental 456:15	mid-September 334:8 335:21
masts 305:23	319:1,2 392:19 393:19	445:17 446:3 451:7,8 453:12 454:9,14,20 455:6,22	mention 34:15 164:10 256:6 288:6 368:9	middle 138:5 227:9 230:1 233:2 248:19 268:24
materials 4:21 4:23 5:1	meant 31:18,19 31:20 56:17 60:21 65:14,18	455:6,22 meetings 33:24 35:21 105:12 146:3 148:8	453:16,21	migration 368:10,11
294:11 307:23 361:24	179:15 343:5 353:24	427:18 428:3 meets 78:3	memorized 57:19	migratory 91:8 368:22 369:5,7
math 197:14 199:6	measures 20:1	megawatts 197:8,12,23,25	memory 113:19 290:18 334:8	milestone 164:3 172:13 173:9 174:8 190:21 191:5 202:8,14 203:17,23 205:6 376:14
matter 1:2 4:20 8:8 116:16	meat 61:24 113:3		mention 34:15 164:10 256:6 288:6 368:9	milestones 160:2
165:4 250:21 251:5 271:18 378:25 395:17	mechanics 129:13		mentioned 19:7 26:17 35:3 90:18 118:11 129:23 138:15 145:14,22,23 148:11 151:13 163:21 193:13 197:6,9 211:25 257:20 287:19 291:23 299:7 308:20 309:7 317:14 373:21 378:23 380:20 412:11	million 210:20 212:4 240:16 240:17
mattered 65:6	media 134:7,12		ment 116:13 128:22 159:19	millions 398:15
matters 94:10 153:25 270:11 318:25	meet 22:1,11 24:12 25:6 35:7 56:15		memory 113:19 290:18 334:8	mind 17:14 25:14 39:23 53:14 61:23 99:6 116:21
maximally 352:9			memo 410:21 419:20 451:14 453:16,21	
maximum 382:2			memorized 57:19	
McGuinty 245:21 384:18			memory 113:19 290:18 334:8	
MCOD 173:24 175:12 176:20 177:1 184:17 187:24 190:13 191:2,3,16 203:5 204:23 205:14 236:7,8			mental 456:15	
mean 12:21			mention 34:15 164:10 256:6 288:6 368:9	

121:19 126:7 126:15 130:12 144:25 284:8 355:9 409:10 433:24 436:23 448:4 mine 350:21,22 minimally 352:8 minimum 16:25 17:1 23:8 26:6 65:9 73:3,22 128:4 339:11 347:9 358:17 minister 11:25 40:2 127:7 132:17 148:12 148:13,15 149:24 150:22 151:4 160:23 171:1,16 173:7 173:22 174:3 177:22 217:6,7 219:8,10,13 223:17 234:7 268:17 269:22 269:23 270:8 270:17 271:5 299:18 301:3 303:3,23 307:25 308:2 341:4,12 343:10 347:21 375:19 379:11 379:19 381:21 384:5,14,16,21 384:22,23,25 385:16 386:11 387:16 391:10 391:10 392:18 393:2,19 394:6 394:10,14,18 395:19 396:1 397:8 398:3,10 399:16 401:23 402:17 404:7 407:21 409:9	409:21 410:4 411:9 422:20 422:24 433:16 433:23 434:8,8 434:11 436:15 436:17 437:3 438:11,15 443:12,22 445:3,4 446:2 446:12 447:15 449:17 450:8 452:1,9 454:3 454:13 455:15 Minister's 173:1 173:17,19 219:7 272:16 272:20,23 332:10,14 342:6 356:7,8 392:21 393:12 400:2 402:3 412:8 416:1 445:20,23,23 ministerial 40:1 175:14 176:1 183:23 184:2,4 185:4,6 340:24 341:1 387:13 Ministers 127:11,17 268:17 345:22 387:18 394:5 396:1,14 399:3 432:23 433:12 438:3 ministries 58:1 126:5 274:20 277:5 293:7 308:21 315:10 315:14 327:6 327:13 328:23 333:2 393:16 413:1 423:14 423:18 427:8 427:11 ministries' 377:3	Ministry 2:13 2:14,15,15,16 23:3 53:17 95:2 99:12 107:13 168:10 168:13 174:16 174:24 175:5 178:2 184:11 217:10 220:2 220:20,20,21 223:5,9 226:6 227:11,22,23 229:6,8 230:18 231:16,22,23 231:25 232:18 233:1,18 234:8 234:15,17,19 237:8,16,25 238:1,13,15,18 238:20 242:15 242:15,16,20 243:1 270:6,9 270:13,16 271:25 272:2 274:1,12 275:6 276:14,17 278:24 287:15 287:20,21 293:7,8,9,10 295:12,15 301:1,6,22 308:23 310:22 311:12,21 323:7 325:22 326:24 328:8 328:24 329:21 334:3,23 339:5 339:6,24,25 340:6,24 342:22 346:15 347:11 355:23 360:2,5 368:3 368:4 370:15 370:17 378:13 379:9,12,15,18 390:9 399:5	404:1,20 405:7 405:15 407:20 411:14,22 412:17,17,20 412:25 413:21 414:22 416:4,8 416:12,21 419:17 423:23 425:21 430:15 432:9 434:6,16 440:4 441:3,14 441:17,24 443:2,23 444:13,16,21 445:12 454:4 Ministry's 274:22 303:1 355:17 minor 75:16 minority 197:12 197:16,22 198:21 minute 90:10 251:12 424:13 444:8 minutes 19:8 82:16 96:15 100:5 129:21 152:11 265:21 265:22 316:6 316:19 321:22 381:18 miracle 126:7 misattributed 268:16 misconception 86:3 misleading 365:25 misperception 326:4 missed 163:14 missing 60:20 116:6 Mississauga 246:1,5	misspoke 422:10 mistake 34:19 359:18 422:4 misunderstan... 408:3 misunderstood 321:5 Mitchell 217:3,4 219:2 220:17 220:22 223:8 223:15 224:20 226:13 227:23 228:7,9,15,17 229:5,6,19 242:15,25 mitigate 25:13 151:18 mitigated 20:12 66:19 mitigating 41:11 mitigation 20:1 41:11 mix 133:22 255:16 mixed 84:14 Mm-hmm 190:14 203:21 204:18,24 205:23 207:5 208:13 209:12 214:14 217:1 217:12 218:3 219:1 224:21 237:14 242:5 247:13,23 248:2 250:17 251:22 258:1 260:19,25 391:16,23 416:6 451:4 MNR 11:23 23:4 29:7 36:7 53:16,17 56:4 58:18 60:24,25 61:4,5,8,11 63:15 75:7,11
---	--	--	--	---

95:4,10,22,24 118:24 127:13 129:4 138:22 139:9,10,12 145:15 147:3,5 147:14,16 150:6,7,13 226:4 270:18 275:7,21,25 277:21 278:10 278:23 280:21 281:16,23 284:15,19 291:17 292:23 293:15,18,25 296:25 297:21 298:9,16,17 299:12,16,18 303:12 304:10 308:4,20,21 311:10,22 312:19 313:4,9 314:8,18 315:10 317:2,7 318:17 322:17 323:20,24 331:21 333:10 333:17 334:17 334:22,24 335:6 337:11 337:13,24 338:18 342:3,6 343:3 346:15 353:12 355:16 357:7 360:20 364:9,19 365:14 371:4 372:3 373:24 374:2 375:18 379:19,20,21 394:10 415:23 417:20 MNR's 61:9 138:21 279:10 306:23 307:13 331:14 364:12	376:5,8,9,10 MO 356:6 393:8 393:10,12 MO/PO/DMO 431:7 mode 68:4 79:2 model 23:21 24:4,5,10 25:8 35:5,7,22,23 39:17 128:15 128:24 170:6 170:10 modelling 24:24 25:17 28:10,19 97:23 98:3 110:9 111:13 115:4 117:12 models 24:17 27:11 35:6 38:20 39:18 98:3 170:7 modified 201:9 modify 325:13 MOE 29:3 36:7 49:4 53:17 57:12 58:18 60:25 61:1,2,6 61:7 63:20 72:19 95:22,25 96:2,4,6 118:24 126:7 127:13 150:5 226:3 291:16 292:24 293:13 293:18 294:1 326:2,9 334:17 335:6 338:17 341:5,19 355:16 360:20 377:1 378:6 415:23 417:10 417:23 418:13 MOE's 279:7 376:7 418:3 MOECC 362:17 moment 83:1	101:2 104:17 158:19,19 177:3 216:20 240:3 243:22 284:10 291:22 313:18 316:24 349:17 351:4 357:24 358:5 372:10 443:25 Monday 206:25 219:20 430:22 monitor 380:10 monitoring 106:23 282:11 month 233:16 243:8 319:5 month's 363:18 months 56:25 86:21 148:7 151:24,24 191:18 202:7 204:23 205:16 206:2 233:23 255:11 352:19 378:5,7 Montreal 10:8 moratorium 115:18,20,21 121:25 122:5 122:25 123:3,5 129:16 143:7 143:18,20,24 144:8,14,17,17 144:19,20 145:2 206:24 207:2,13 208:11 211:7 214:11 215:22 222:13,14 232:5 234:3,9 235:24 236:18 237:2 239:23 240:12 241:21 259:19,23 338:7 352:25 356:15 364:9	364:12 365:4 367:9,15,25 368:2 378:21 392:8 396:24 401:25 402:14 418:3,6,7 431:12 440:25 454:21 Morley 360:6,14 360:25 362:2 363:24,24 364:2 420:13 421:9 422:20 429:4 432:5,14 432:24 434:4 437:20 Morley's 362:15 morning 4:6 5:12 7:8,9 8:5 8:6 9:4 101:3 109:18 113:15 219:21 388:15 388:24 419:12 419:14,21 427:7,9 430:16 453:25 456:17 459:2 Mott 86:16 MOU 362:19 mouthpiece 127:17 move 42:21 101:17 104:15 124:12 140:20 146:11,25 147:3,24 150:8 150:9 188:19 229:25 303:7 317:8 318:25 322:15 392:1 399:23,24 407:4 408:12 414:14 423:4 426:8 430:25 moved 148:8 279:7 321:9	419:2 movement 230:21 moving 120:23 120:24 122:2 188:18 415:17 MPP 348:7 384:8 Mullin 242:21 249:11,15 332:18,19 multiple 75:9 128:17 254:6,6 municipal 194:24 municipalities 106:6 195:1 280:16 Municipality 245:1 mutual 162:20 164:18 212:18 212:22 261:2 262:5 265:16 Myriam 2:2 165:3 200:20 mythical 336:12
<hr/> N <hr/>				
N 457:21,22 NAFTA 4:7 213:24 name 5:13,18,21 8:7 155:4 165:3 178:21 252:9 263:2 266:17,20 272:14 382:18 382:21 named 341:10 445:2 names 271:9 457:14 Nancy 55:20 Nation 95:17,25 national 380:15				

<p>Nations 183:24 183:24 184:13 natural 2:15 20:8 61:6 76:20 106:25 107:3,6,10,13 108:22,22,24 148:13 220:20 270:9,12 280:19,20 281:2 286:20 287:21 293:8 293:10 295:15 301:1,6,22 303:24 327:13 328:24 329:21 339:7 340:1 344:7 346:15 379:18 411:15 445:12 nature 19:22 38:5 196:2 374:5 386:14 455:14 navigable 88:17 88:19 90:18 navigating 276:21 near 207:10 302:20,20 303:13 369:17 369:22 442:23 necessarily 24:23 41:15 63:13 78:2 93:6,22 98:11 124:15 126:23 127:20 194:3 228:16 229:20 229:23 necessary 12:8 83:8 143:14 215:4 265:8 330:20 437:5 444:3 need 5:5 8:17,21</p>	<p>8:24 9:3 34:13 35:5 42:24 45:17,25 56:4 56:5,20 82:15 88:20 96:20 114:21 129:17 132:2,19 133:17 134:3 139:18,25 147:22 149:13 149:14 178:12 180:6 181:9 240:5 248:13 251:11 252:23 258:22 263:1 263:14 265:21 270:1 311:24 312:12 316:1 322:2,9 326:8 327:21 342:21 366:10 395:12 402:11 411:9 414:12 417:9 418:12,14,16 448:16 451:13 457:3 needed 32:16,24 33:1,2 38:21 87:6 88:1,2,21 88:24 92:23 118:4 122:8 132:15 134:8 134:19 229:24 236:24 237:1,4 239:21,24 253:1 280:15 332:10 362:21 388:9,22 411:13 419:23 436:15,16,19 438:22,25 441:25 443:5,6 needing 87:10 needs 8:25 28:9 254:2 428:20 negative 19:23</p>	<p>negotiate 221:16 225:8 226:6 228:3 229:10 negotiated 121:23 313:4 negotiating 228:10 407:24 408:4 negotiation 228:10 313:21 negotiations 228:15 229:20 235:14 260:15 Neil 326:1 neither 97:19 143:9 193:1 nesting 91:24 92:11 NETTLETON 67:17 79:7 84:6 100:17 179:14 216:20 336:22 351:4 366:7 377:16 457:1,19 458:1 458:3,5,13 Neufeld 2:8 3:4 3:6,16,18 5:8 8:3,4,7 14:25 16:5 18:2 19:2 47:14 48:1 57:14,17 67:18 68:11 69:23 70:16 74:23 79:5,10 82:14 82:16,20,21 84:13,24 96:16 101:9 102:7 104:2,9 109:7 112:4 113:15 115:11 117:17 140:8,9,10 142:2 143:22 207:6 269:16 269:17 270:24 350:5,9,11</p>	<p>354:16 373:18 374:21,23 381:8 458:7,10 458:17 never 10:23 23:16 55:5,14 80:22 119:13 144:25 150:18 164:24 166:22 208:16 211:4,8 211:9 229:18 229:23 242:8 242:10 333:15 368:16 405:18 437:9 448:14 452:11 new 29:14,14 30:21 37:5 41:2 42:22 51:19 52:18 53:3,22,23,24 55:9,10 79:22 79:24 87:15 93:17 97:22 98:17 125:22 126:1,9 186:8 250:12 274:4 300:10 306:9 306:11 320:8 321:7 334:19 368:3 369:25 430:21 441:11 newest 13:16 news 362:7,10 363:4 420:25 426:1 429:15 430:11 Nick 2:3 night 4:11 153:19 154:2 154:11 179:17 180:2 265:7 388:23 419:24 453:20 nighttime 134:11 368:11</p>	<p>Nigig 178:23,24 178:24 180:15 NIMBYs 62:22 nine 137:10 279:25 nit-picky 200:22 200:23 no-go 342:12 353:15 354:1,6 355:10 413:7 414:8 nod 81:17 noise 18:4 23:10 23:21,25 24:1 24:4,4,13 25:7 25:16 26:1,2,3 26:8,16 27:1 27:20 28:21 35:13 42:19 61:2,4,8 63:22 63:25 75:23 76:2 110:10 111:17 114:2,4 114:22,23 117:12 120:14 128:15 339:13 339:17,21 340:12 446:16 non-confident... 69:14 non-counsel 180:7 non-refundable 296:17 non-transfera... 321:3 non-wind 193:5 nonprofit 380:8 normal 19:24 43:16 146:11 147:1 326:25 454:19 normally 24:3 33:11 34:24 110:3 North 1:2 447:6</p>
--	--	---	---	---

448:20 note 29:24 108:4 167:13 184:9 240:11 286:25 299:17,17,23 350:25 384:12 400:25 413:14 419:5 noted 167:20 183:22,23 184:3 326:1 441:9 notes 55:23 64:6 92:22 108:4 302:13 380:18 notice 20:21 36:6 57:12 141:14 204:4 Notices 105:12 notification 147:8 notifications 96:5 notwithstandi... 141:6 203:25 November 29:4 53:24 85:19 206:4 267:4 268:4,6,7,17 269:9 288:7,13 317:13 365:15 365:22 NTP 141:8 207:17,18 nuisance 92:14 number 9:6 13:14 28:7 57:11,15 75:8 78:7 102:2 108:9 109:20 110:2,21 111:2 111:4 118:1 124:24 127:12 128:5 137:6,17 139:11 143:21 149:25 150:2	150:20,24 171:22 187:2,3 187:22 191:17 197:21 198:19 199:12 202:20 217:10 220:18 225:8 226:7 228:11,11,20 229:11 300:19 307:22 311:8 343:23 344:2,4 344:13 352:18 364:13 370:1 380:24 387:13 387:17 390:22 391:14 400:16 411:23 430:7 437:21 numbered 403:5 numbering 73:16 157:17 numbers 9:13 199:20 372:21 372:21,23 373:2,2 numerical 347:14 numerous 82:4 136:19 <hr/> O O 102:2,4 o'clock 156:17 388:15,23,24 O'Connor 449:5 O'Connor's 449:22 450:11 Oakville 244:4,7 245:1,22 246:7 object 440:8 objection 180:8 247:11 250:24 413:19 objections 248:15 objective 161:17	254:10,15,18 objectives 254:6 254:9,21,23 obligation 163:16 obligations 158:24 159:1,4 159:6 259:17 259:22 442:2 obliged 417:11 obstacle 117:15 obstacles 126:4 obtain 148:3 254:10 296:4 329:12 obtained 132:16 244:10,12 obtaining 130:15,16 269:2 obtuse 76:5 144:20 obvious 151:19 345:20 438:21 obviously 27:1 53:25 55:9 66:21 77:23 118:23 234:11 389:18 408:13 434:19 436:13 436:14 437:24 442:4 443:6 448:10,14 451:1 occasion 124:9 141:11 occasions 49:18 82:5 86:14 160:22 occur 20:11 27:12 85:16 197:2,3 342:10 occurred 4:20 146:3 227:10 304:5 366:12 366:14,22	367:8 387:9,12 409:3 occurring 139:16 192:15 340:8 367:11 407:13 Oceans 88:13 October 70:10 82:23 241:4 246:11 303:22 375:4,5,8 441:14 odd 129:14 401:17 odour 23:24 110:10 111:18 114:2 of17:21:04 346:22 offer 21:8 34:10 86:22,23 131:8 158:7,13 159:4 159:14 160:24 161:8 171:2 172:4 173:8,23 202:22 213:1,6 213:8 214:21 215:17 236:7 240:2,8 242:4 252:17 253:19 310:18 311:1 427:25 428:3 428:14,20 offered 49:21,23 52:7,9 56:10 85:7 158:20 172:12 186:16 186:17 187:1,4 187:5,6,6 235:19 254:2 295:11 323:2 374:4 offering 373:24 offers 172:18 235:15 237:8 253:25	office 2:15 118:17 219:7,9 219:11 220:19 242:21 249:4 249:10,17,20 249:25 250:20 272:16,20,23 276:13,16 277:1,11,19,23 297:24 322:19 332:15,18,23 333:5 342:7 355:25 356:7,8 356:8 362:3 385:13,24 386:1,23 392:21 393:11 393:12 400:1,2 400:22 402:3 412:8,25 413:24 416:1 422:23 429:17 430:13 434:25 435:2,12 436:3 436:8,9,11,17 436:21 437:18 445:20,23,24 446:3 455:15 officer 296:11 offices 1:9 315:5 425:13 official 227:23 328:2 360:6 392:18 415:25 419:17 officials 30:13 220:2 227:22 272:19 303:1 310:23 337:5 365:15 404:1 404:21 413:21 431:1,2 432:12 offline 377:20 offshore 12:8,12 12:14,22 13:4 13:6,8 14:2,4,5
---	---	--	---	--

14:6 15:12,13	291:4,15,24	455:23	198:11,23	293:24 294:4
16:11,13 17:6	293:4,16,21	Ohio 401:15	199:13,14,19	296:23 297:20
17:8,9,10,13	294:2 295:3	oil 113:8 286:2	199:22 200:14	298:7 299:7
17:21 18:9,21	300:8,11	okay 11:18 12:1	200:17 201:17	307:16 309:24
19:7,10,17	301:20 302:21	14:7 18:3,8,13	203:10,14,19	316:9,17,20
23:1,6,16 25:1	303:20 304:11	18:16 31:21	204:18 205:12	321:19,21
27:2,21 29:13	305:22 306:8	32:12,21 33:6	205:20 206:19	322:11,11,14
30:20 31:8,15	323:19 324:3,8	36:3,18 38:24	206:23 207:22	323:11 329:16
32:14 35:12	324:17 328:3	43:4 44:19	208:3 209:17	331:20 332:1
37:12,21 38:20	330:19 333:24	53:11 54:13	210:19 211:20	332:12 333:6
46:21 49:11	338:16 339:1,9	55:16 57:6	213:21 214:2	334:11 335:11
58:4,13,23	339:20 340:22	63:19 65:13	216:3,19,22	336:18,24
59:10 63:7	341:23 343:9	66:4 67:6	218:20 219:10	338:4 340:14
64:9,19 70:21	347:1 348:23	71:11,18 73:19	220:8 223:14	341:6,14
75:8 76:3	348:24 350:1	73:20 74:24	224:18 226:17	343:12 345:3
88:22 91:20	351:17 355:3,5	77:22 78:5,9	227:2,18 228:9	346:11 347:16
92:4,8 101:10	356:15 360:17	79:7 81:21	229:25 231:19	349:6,12
102:16 103:8	361:10 363:17	82:11,20 83:20	232:10 234:18	350:17 351:2,9
104:13,22	364:1,16,20	85:18 86:10	234:22 235:12	351:23 352:16
105:8,21 106:3	368:13,21	88:17 89:17	235:16 236:11	355:1 357:16
106:4,8,11,14	369:9,17 372:5	93:1 94:14	236:23 237:5	357:22 360:5
106:17 107:2	377:7 378:7,21	96:10 97:17	238:16,20	360:12 363:5
108:15,20,23	379:1,13 381:1	100:3,25	240:10,15,22	364:5 367:7,14
109:1,14 110:1	385:17 386:3	113:13 115:8	241:23 242:11	369:3,13 370:3
110:12,16,17	389:25 394:21	130:14 134:23	242:12,19	371:23 374:9
110:24 111:9	403:15 405:2	135:20 141:20	243:9,20	374:12 375:14
111:12,16,21	406:8 413:22	142:2,5 143:10	244:15,17,20	375:22 376:22
112:5,20,23	415:6,18,20	143:15 148:10	244:23 246:6	377:10,19
113:2,12 114:8	416:21 417:15	151:9 154:12	246:24 248:12	381:3,9 382:4
116:5,7 122:11	421:19 424:5	154:19,23	248:16 251:8	382:7 386:16
122:13,14	429:3,16	155:7 156:6	251:17 252:12	389:16 390:10
123:6 130:5	430:12 431:12	158:4,14 160:9	253:5,7,15,24	392:16 395:3
135:17,22,24	433:25 435:20	162:6 165:6	254:24 256:3	396:17,20
135:25 136:3	436:13 447:6	166:23 168:4,5	256:19 257:20	399:22 403:2
147:10 149:2	oh 11:17 15:25	168:21,23	258:8 259:24	409:11,25
151:10 166:2	20:24 67:15	170:1 173:20	259:25 262:17	410:21 411:6
166:18,19	69:14 70:21	178:11,14	265:18 266:2	412:3,16 413:5
167:2,3 176:6	82:16 104:23	179:3 181:16	266:10,20	414:2 417:1,5
214:16,22	130:22 181:5	182:8 184:8,25	268:19 269:10	419:1,25 420:5
215:6 230:20	183:8,20 192:6	185:16 186:18	271:24 272:3	420:18,23
230:22 232:12	194:15 203:10	188:8 189:13	272:13,17	421:2 425:16
232:20 279:20	273:16 350:15	190:7,18	273:23 276:11	426:14,21
283:3,19,23	350:23 359:15	191:24 192:13	278:1 279:8,22	427:4,21 440:1
284:5 285:16	390:19 397:11	193:9,17,22	281:2,24	440:22 441:7
286:1 287:3	403:7 424:13	194:6,6,13	289:16 291:8	442:11 443:10
288:2,6 289:13	440:1 445:3,19	197:24 198:3,8	292:10,18	444:24 446:22

453:25 455:25 456:4 old 387:2 omitted 200:10 on-land 344:25 on-shore 18:7 22:13 23:15 26:14,15 27:17 40:14 63:17 75:19,25 88:22 91:1,20 92:4,5 92:9 110:15 111:15 115:3 122:11,15 135:16,22,24 135:25 136:21 160:5 186:17 186:25 187:4 once 64:12 139:3 146:7,23 162:10 163:24 317:6 355:17 one-off 161:7 175:11 176:14 176:17 177:12 one-offs 177:10 one-year 176:4 202:23,24 203:9 onerous 92:9 216:15 ones 131:24,24 132:21 176:7 185:23 186:19 284:23 315:18 ongoing 170:13 259:23 onshore 189:25 279:18 288:2 300:10 302:20 339:15 371:7 371:14 417:3 452:13,16 Ontario 1:10,24 1:24 2:17 4:1 11:4 13:12	24:12,16 26:20 28:21 32:16 33:16,17 36:16 58:5 59:8 62:18 74:8 76:2 89:15 96:9 119:23 127:5,9 128:11 131:6 133:21 133:23 134:2 137:24 138:3,4 165:12,23 166:12 172:11 181:21 194:9 196:1,8,10 207:8 216:4 244:4 247:21 254:10 271:5 300:2 302:16 303:16 304:15 308:12 324:12 328:1 330:15 347:7 358:11 368:12 369:5 369:14,15,21 384:3,6,15,18 387:1 397:17 399:11 403:23 404:16 405:4,6 405:6 422:21 427:8 442:20 442:20,21 444:19 449:1 449:14 450:2 450:10,14 452:19 Ontario's 302:4 358:14 onus 127:11 OPA 86:21 123:18,18,25 124:4,13,25 131:18,19 133:9 135:14 141:14 142:23 143:2,11	144:14 151:23 157:7,14 158:1 158:7,12,22 160:16 161:4 161:22 162:10 162:13 166:18 167:8,15 168:8 170:21 171:2 171:17 172:25 173:2,3,8,16 173:18,23 174:2,7 175:2 175:4 191:24 193:17 194:3 200:19 201:8 208:4 210:2,7 210:19,22 213:3 214:11 214:21 215:3 215:21,24 218:6,16,17 220:8,10 221:14 222:7,9 222:22 225:6 226:13 227:20 227:21 228:24 229:4,9 231:7 232:4 234:11 234:23 235:1 235:22 237:7 237:15,17,21 238:7 239:19 241:11,11,16 241:19 243:3 244:6,15 247:1 248:4,6 250:6 250:8,21 251:18 252:13 252:14 253:25 254:25 255:5 255:13 261:6 262:9 308:23 313:5,13,21 314:8,14 315:5 315:19,20 317:24 353:9	373:22 374:3,3 OPA's 160:10 223:22 234:14 237:6 241:4 242:2,14 259:11 open 17:23 104:6 199:25 295:16 296:2 306:9,11 372:18 open-ended 41:6 opened 138:25 299:8 306:17 opening 158:3 160:10 161:20 207:6 307:5 439:25 442:21 operate 90:3,6 136:25 operated 54:24 418:20 operating 136:23 170:13 325:18 operation 135:5 157:22 159:25 160:2 162:18 163:17 164:3,4 172:14 173:9 174:9 190:21 202:3,9,14 204:21 206:11 292:13 343:7 operationalize 217:20 operations 89:6 110:7 111:8 136:25 282:8 Operator 2:17 OPG 47:2 opinion 121:24 345:25 386:12 389:15 436:16 opportunity 50:10 63:1	66:24 144:5 222:17 223:1 224:5 259:8,10 259:16,20,22 295:10,11,15 417:7 428:7 433:6 opposed 25:17 81:5 95:22 376:7,19 opposition 194:25 355:2 option 9:23 133:1 217:20 356:14,22 357:14,15,17 357:17 358:21 358:24 371:14 372:24 378:9 391:22,25 392:2,4,5,6,10 393:9 413:1,2 413:6 418:3,6 418:7 420:20 421:5 431:11 431:19 optional 82:6 options 217:16 218:12 354:8 391:18 393:15 396:7 order 20:4 32:15 33:1 43:14 148:2 183:13 233:4,6,15 252:25 253:14 275:7 290:8 308:3 309:21 441:19 457:10 458:21,25 organization 157:14 255:21 317:16 original 141:17 141:23 184:18 189:24 202:7
---	---	---	--	---

202:14,15,18 202:19 203:16 203:17,22 204:23 205:5,6 205:14,24 236:8 407:5 ORTECH 7:12 8:12 9:16,24 29:22 32:12 46:16 67:8 68:17 72:1,18 72:25 73:20 75:18 78:10,16 79:1,23 82:24 83:24 Ortech's 36:23 73:15 Ottawa 1:24 outcome 58:17 66:22 77:17 115:13 146:3 308:11 335:17 outline 58:22 63:6 64:18 285:19 321:14 outlined 12:15 40:12 43:2 56:12 104:25 250:7 279:1 283:25 285:4 285:14 287:8 396:7 outlines 25:10 32:22 33:7 112:15 284:5 outlooks 255:18 255:19 outset 28:15 outside 195:18 195:19 336:4 outstanding 144:23 over-interpret 127:15 over-speak 127:18	overall 14:3 41:18 117:15 117:25 119:22 126:19 133:22 overcome 77:24 overkill 61:3 overlap 287:19 292:15,17 overly 136:7 138:7 overpurchase 255:3 override 433:23 oversaw 273:21 overseeing 273:20 oversight 270:11 overstepping 127:8 overturned 439:9 overview 29:9 160:16 270:4 335:1 <hr/> P <hr/> p.m 152:20,21 189:10,11 265:25 266:1 321:23,24 382:12,13 423:6 459:4 package 95:6,7 95:9,15 138:16 138:17,21 139:7 140:3 298:19,20 packages 139:11 page 3:1 15:17 15:20 21:18 22:6,7,17,18 30:9 36:25 37:18,19 44:14 46:14 47:16,25 55:23 64:6 66:5 67:25	68:9,23 69:6,7 70:4 71:6,9,11 71:14,19 72:23 73:6,10,13,14 73:15 74:1,4,5 78:12 79:6,9 79:12,21 83:16 83:18,19,22 84:7,8 103:12 103:13 112:19 165:16 166:4 168:6,21 169:2 173:13 201:25 204:16 214:19 215:12,12 220:16,16 224:18,19 230:1,1 232:25 234:21 248:1 248:17,20,22 267:5 268:15 273:24 275:1 276:12,12 278:2 280:5,8 280:12 281:10 281:25 282:15 282:18,18 283:6,6,18 289:2 293:20 296:7,24 303:8 311:5 317:12 318:21 319:11 319:16 321:14 323:5 324:20 324:20 337:7 337:11 338:3 338:14 340:17 343:19 346:18 346:18,22 349:19 351:12 353:6 356:2 359:23,24 360:24 365:18 392:7 393:17 393:23 395:23 400:20 413:3,4	416:5 420:1 421:8 423:15 423:16 424:16 424:18 427:14 429:23 433:22 pages 84:10 273:24 280:1,3 283:5 388:2,6 409:17 panicked 69:16 paper 64:1 75:1 305:5 342:3 343:3 346:16 350:19 369:1 369:11 426:8 paragraph 11:5 11:13 21:7,22 22:7,16 26:2 29:12 55:22 57:25 63:6 64:6 68:24 73:7,10 74:2,6 74:16,20,20 84:22 230:2 249:1 268:24 273:25 275:1 289:19 293:19 293:20 308:1 313:3 314:7 317:19 319:16 319:21 327:9 329:10 338:15 345:4 358:8 364:7,9 367:22 368:8 370:11 371:25 375:25 377:5 403:1,6 405:1 406:4,24 415:17 420:22 421:1 paragraphs 318:22 329:7 370:24 parallel 391:25 parameters 223:25 401:8	paraphrase 230:9 parcel 112:12 parcels 295:21 pardon 57:14 62:14 107:9 108:8 142:11 146:16 171:9 183:8 189:24 219:10 225:14 241:24 245:20 248:17 parenthesis 206:25 park 270:3 parlance 280:21 parliament 348:3 parliamentary 384:13,16 449:13,16,17 Parsons 2:11 part 13:5 15:1,2 16:18 26:23 37:25 40:7 67:4 110:3 112:12 138:3 139:2 147:15 158:24 160:3,4 168:14,16 255:12,17 256:12 258:25 259:2 289:20 289:21,24 290:1,24 293:5 294:5 307:13 339:2 345:4 351:24 368:22 370:9,15,20,21 385:12 398:6 400:7 408:6 418:18 434:5,5 452:21 456:23 456:23 participation 169:11 173:10
--	---	--	---	---

particular 36:5 62:3 80:25 81:9 86:15 90:8 116:25 125:9 174:18 179:21,25 213:24 249:5 256:12 271:21 286:22 291:10 295:20 298:2 298:22 299:4 302:22 305:7 344:4 355:2 358:22 367:17 368:8 378:23 380:20 387:11 398:17 414:4 427:10 432:14 447:18 450:18	398:22 442:6 450:17 452:3 pathway 51:3 Patten 457:22 patterns 368:11 Paul 44:15,15,16 45:13 46:15,15 46:17 48:6 49:7 323:6 341:7 392:25 Paul's 47:13 pause 9:4 90:10 202:13 316:23 376:11 377:9 379:12 paused 200:21 pay 392:9,11 443:5 paying 450:4 payments 204:5 PCA 1:1 457:9 Pearl 45:21 46:2 49:6 118:11,15 392:22,24 penalties 231:12 232:6 peninsulas 74:22 75:3,15 people 10:9 62:9 63:3 72:6 82:2 122:22 124:25 157:17 160:11 163:16 180:13 181:7 220:18 227:12 243:2 243:14 252:23 256:8 271:10 296:3 343:9 344:20,21 368:4 378:8 386:13,14 388:5 395:17 395:19,20 398:15 400:24 402:17,18 409:7 430:8	436:9 443:8 445:25 447:12 447:25 448:13 449:2,19 450:10 455:17 455:18 peoples 94:17 perceive 23:22 perceived 75:18 perceives 139:12 percentage 196:19 199:2 perfect 67:16 96:17 101:1 performance 204:8 209:24 210:6,21 212:5 213:4 period 122:11 126:16 172:19 174:9,10 271:16 273:2 295:16 299:5 307:17 308:8 317:22 367:1 409:3 412:10 permissive 321:4 permit 13:12 88:1,18 91:8 119:14,15 135:15 371:16 permits 88:2,12 89:19,23 120:8 195:2 244:11 275:14,21 278:10 284:15 284:21 permitted 13:18 14:24 41:4 92:5 permitting 7:15 10:24 11:3 13:17 29:14 30:21 37:2,5 38:13,15 40:8	42:5 43:24 44:1 66:18 83:8,9 84:1 92:10 104:20 105:1 112:8 117:21 171:3 177:21 192:1,4 192:19 193:12 194:21 199:9 199:16,18 207:17 244:25 273:9 275:3 325:2 326:17 327:23 380:10 perpetual 239:15,22 240:7 243:4 266:11 perpetuity 236:22 239:20 Perrault 2:10 458:6,8 Perry 3:9 155:7 157:2 225:2 person 16:16 247:3 249:8 289:25,25 290:10 329:23 348:16 398:11 438:12 personal 119:24 121:24 123:16 125:14 129:2 385:23 386:19 436:1 personally 436:7 perspective 92:25 93:21,24 112:14 130:10 136:5 227:20 227:22 257:1,3 264:7 274:22 293:2 298:13 331:14 333:8 359:5 379:8 pertaining 13:3	13:6 230:19 232:20 pertains 114:3 140:18 230:12 Perth-Middles... 384:9 Perth-Welling... 384:10 phase 7:24 319:13,13,15 320:11,17 321:15 phased 169:12 319:22 phases 221:9,11 319:12 phone 388:16 445:16 phosphate 451:24 phrase 33:4 phrasing 104:9 pick 136:9 450:13 picked 388:15 picking 346:21 piece 13:21 35:25 116:6 139:4 401:18 pieces 61:7 86:15 225:8 228:11,12 229:11 Pigeon 90:16 92:13 pilot 217:22 337:9,12 389:20 392:1 397:15 399:8 399:11,12 400:10 401:5,7 402:6,14 406:18 407:2,3 407:8,11,15,18 407:24,25 408:4,8,25
---	---	---	--	--

432:21 435:7 437:5,23 438:5 pilots 408:15 place 1:9 41:24 56:16 60:19,19 98:8 102:6 116:2 144:18 144:21,21 162:3 163:8 172:5 205:4 208:2,3 211:2 211:9 213:10 215:8 236:21 239:19 244:9 254:12 256:17 259:19,21,23 260:3,15 262:15 272:9 294:6,10 303:6 303:25 304:5 324:13,25 326:6,11 364:23 366:13 372:4 398:17 406:3 440:25 449:3,7,12,25 453:13 455:6 placed 221:12 places 47:12 412:24 plan 36:20,23 56:11,13 78:2 85:12 89:24 98:13 100:1,2 106:23 110:5,6 110:7 111:3,5 111:7,10 117:25 118:4 120:21,22 140:1 255:16 256:23 282:8 282:12,14,19 282:22 285:22 292:12 316:13 316:16 322:9 336:9,10	337:11 348:13 356:12 358:7 358:20,22 360:15 407:5 418:15 420:15 424:6,9,15,23 430:20 431:9 planned 86:11 89:10 348:4 planner 386:23 386:25 planning 7:15 31:4 53:6 57:3 133:20 207:8 255:14,22 256:2,8,9,13 257:6,15,18,19 258:25 259:2 321:25 335:5 369:16,21 425:1 442:22 plans 118:2 207:12 256:4 324:12 369:19 415:23 442:24 plant 121:18 244:3,7,9 245:22 246:5,8 246:10 plants 133:22,25 251:7 plausible 27:1 27:14 130:7,10 play 93:6 203:6 203:7 played 56:23 271:17 287:20 playing 292:23 293:9 plays 301:25 please 7:10,17 8:17,18 15:5 20:21 21:18 36:25 43:5 48:10 55:17,23 57:25 59:7	68:1 83:13 110:25 117:21 140:9 144:9 156:19 168:3 181:25 182:8 183:2 186:3,4 200:6,16 201:3 216:16,21 220:12 237:12 244:22 250:22 268:22 273:6 273:25 275:1 336:20,21 360:14 361:7 374:18 375:16 420:25 421:16 432:16 433:7 439:15 456:21 pleased 31:2 plugged 207:18 plus 17:3 PO 356:6 414:15 430:20 podium 164:25 point 11:11 33:20 41:21 69:19 78:19 87:22 94:21 95:14,16 102:25 137:14 142:24 143:4 162:25 163:5 164:5 168:7,15 181:1 184:17 194:1 205:5,6 206:22 218:7 218:18 231:1 238:21 240:6 255:19 256:14 256:15 257:6 258:10,12,21 259:7 291:11 323:1 333:7 346:22 348:20 349:2,3,10 355:7 368:1	378:3 379:4,16 380:14 412:6 428:12,15 458:17 pointed 44:24 67:2 94:12 98:20 437:19 451:3 pointing 9:12 73:5 points 74:21 75:2,15 81:1 97:25 128:3 133:3 217:15 444:13 policies 431:25 policies 40:1 315:9 325:4 356:19 357:3 380:18 431:17 policy 36:6 39:7 39:25 52:17 57:11 60:18 64:14 161:3,16 175:2,15,15 214:23 215:13 217:5 219:4,8 219:9 247:21 254:21 270:8 270:11,19 271:20 272:16 273:19 291:13 293:2 294:23 295:1 305:6 315:2 319:10 319:12 320:12 323:9 325:1 333:13 334:5 346:16 347:11 347:14 349:16 350:19 351:13 353:21 355:15 361:15 362:12 363:19,20 370:2 372:4 378:25 397:5,6	397:19 398:9 410:22 412:14 414:4 416:21 417:22 420:21 421:24 423:24 434:9,14 437:1 438:14 446:9 449:9,10 political 222:6 272:22 363:2 386:12 446:9 politically 333:3 386:5 politics 127:24 polluted 449:8 pollution 446:24 pool 312:18 popular 142:6 population 286:6 populations 113:9 port 88:25 89:2 89:6,8,11 90:20 portfolio 157:16 178:5 portion 216:8 ports 88:23 position 46:7 74:24 76:5 118:13 124:12 128:16 157:11 163:23 225:21 226:2 237:11 270:7 300:25 301:2,6,21 308:4 309:2 352:21 378:13 408:11 414:20 434:12 positioning 221:22 positions 238:1 247:8 positive 29:2
--	---	---	---	--

48:19 50:15	254:2,2,8,10	405:10 408:14	434:7,25 435:2	100:4,15 119:7
51:25 146:13	255:1,7 294:14	434:3 437:2,7	435:12 436:3,8	125:25 134:24
147:2 171:19	297:4 299:4	439:4 443:18	436:9,11,17,21	135:20 136:2
positively 60:15	300:3,9,21	449:4 450:22	438:10 455:15	138:14 139:20
possible 26:10	301:25 302:18	preceded 291:14	premise 317:1	140:4,9 142:2
91:9 147:25	306:8 307:6	precedence	premises 263:15	142:5 144:6
206:23 233:3	308:12 358:14	318:8,11	preparation	145:1,5 152:2
395:23 437:25	418:15 444:19	precedent	7:21 31:22	152:7,13,16,25
438:2	powers 127:6	161:15 213:10	71:17 112:23	153:3,8 154:5
possibly 6:22	PPA 137:18	precedents	166:25 297:1	154:12,19,23
32:15 35:13	practical 265:14	33:16 177:8	prepare 32:5	155:1,3,12,16
89:11 118:24	practice 26:15	precedes 359:23	110:3 130:24	155:19,22,25
156:10 269:13	119:11 123:2	precise 9:1	267:23 341:20	156:3,6,14,22
post 128:10	139:12 150:1	13:24 16:7	prepared 29:21	164:21 167:20
148:9	157:25 160:11	216:2 219:6	67:10 91:2	180:10 181:2,7
postdated 359:8	160:12 162:19	predecessor	221:15 237:25	181:16,25
posted 210:22	213:7 261:9	24:9 394:19	299:18 331:1	182:3,19 183:2
posting 36:7	262:15	438:24	387:24 389:11	183:10,16
57:22 59:6	practices 367:2	predecessors	preponderance	186:3,8 188:9
60:25 64:2,18	380:17	443:20	450:19	188:12,13,24
66:17,20 334:7	practitioner	prefer 9:20	prescreening	189:6,13,19
341:21 342:9	25:5 62:13	331:10	297:15 298:7	200:1,6 201:2
367:17	63:12 127:10	preferably 8:21	prescribed	243:23 247:16
postings 58:22	practitioner's	preferred 39:17	24:22 27:6	251:10 253:8
66:25	112:13 130:9	356:14,21	prescriptions	262:3,10,17,22
potential 20:10	practitioners	431:11,19	36:13	262:23 263:4,7
77:24 147:6	88:16 114:6	prejudice	prescriptive	263:14,17,22
248:15 277:7	pragmatic 27:24	234:23 235:4,8	13:25	264:1,22
286:18 291:16	55:2 122:20	241:7	present 2:4,12	265:13,18
300:20 302:18	pragmatically	preliminary 8:9	76:19 91:24	266:2,6,10,14
348:5 368:5	28:3	Premier 245:21	181:18 182:7,8	267:1,7,9,12
380:13 424:1	pre-contract	249:16 360:11	183:5,5	267:15,19,21
444:3	130:25	360:12 384:17	presented	268:1,8,10,14
potentially	pre-dating	385:18 435:21	329:14 438:13	268:19,22
75:13 90:20	165:8	436:14	preserve 223:1	269:6,10
130:3 221:15	pre-MCOD	Premier's	preserved	270:24 315:23
Powell 183:5	191:11	220:19 242:21	222:17 224:5	316:9,13,17
power 2:17	pre-moratorium	249:3,10,20,25	259:8,10	321:21,25
122:16 127:14	143:5	250:20 332:15	president 1:16	322:11 350:12
133:10,14,17	pre-REA 31:3	332:18,23	4:4 5:4,7,10,17	359:18 366:15
134:10 160:5	pre-screening	333:5 356:7	6:1,6,12,15,18	372:22 373:3,5
165:13 172:11	298:4	362:3 385:13	7:4,12 8:2 9:24	373:7,12,16
173:24 177:19	preamble	385:24 386:1	17:17 68:8	374:19 377:12
181:21 193:10	131:22	412:25 414:16	69:20 70:14	377:19 378:19
193:11 214:16	precautionary	422:23 429:17	82:13,18 84:8	379:15,21,25
215:7 244:3,9	398:5 404:8	430:13 433:15	84:21 96:14	380:19 381:3,9

381:12,15	170:5,11,23	275:23 278:12	371:3 383:4	296:7,9,11,17
382:4,7,14,17	pricing 131:20	284:17	427:17 439:25	296:21 297:1
383:2,8,11,14	166:2 167:2,3	probable 27:3	460:5,17	297:20 298:12
383:17,23	167:9 168:18	probably 18:17	proceedings 1:9	298:16 299:2
385:3 391:2,5	168:20 169:8	57:8 75:23	193:19,21,25	301:4 305:9
393:18 424:21	169:12,20	82:16 88:15	194:3 458:15	306:5 307:7
428:22 440:20	170:21	90:10 94:8	proceeds 305:14	308:5,13,22
442:11 444:6,9	primarily	116:23 131:11	process 11:4,23	309:3,15,21
452:23 453:2,5	319:17	131:17 179:8	20:3,5 24:9,10	310:25 314:17
453:8,11,15	prime 56:19	180:24 192:15	25:11 28:8	317:9 319:5,9
454:6,15,20	principally	195:13 233:23	32:23 34:10,13	320:2,18,20
455:3,6,9,19	378:6	258:9 359:10	37:8,15 38:1	327:2,24
455:25 456:4,9	principle 398:5	359:16 454:10	39:10,11,20	328:20 332:3,8
456:19 458:18	404:9 405:10	454:11 458:9	41:6 44:22	337:22 357:17
458:24	408:14 434:3	problem 73:14	52:2,3 58:10	357:21 361:18
press 358:1	437:2,7 439:4	268:2 288:16	59:22 60:7,10	375:25 376:4,4
420:16,19	443:19 449:4	292:6	60:12,15 62:2	376:5 405:9
pressed 301:10	450:22	procedural	62:5,19 63:21	407:23 408:23
pressure 10:19	principles	319:17 321:2	63:24 66:18,22	415:21,22
57:4 125:23	402:21 450:21	321:15 457:10	66:23 67:2	425:8 433:25
126:13 150:12	print 70:22	procedure 6:19	75:5 76:10	438:23 451:15
344:25	prior 56:16	7:1 39:7	77:17 80:18	453:21 454:19
presumably	59:15,24 62:19	182:10 294:18	85:1 90:2 93:3	processed
207:1 220:22	129:16 141:7	294:20 295:9	94:13 96:19,22	297:22 333:16
309:6 314:2	146:4 162:21	458:14	97:1 98:25	processes 41:19
347:11 392:19	164:11 202:10	procedures	99:2,16 104:24	99:6,8 132:8
393:10 404:3	212:8 222:15	125:22 374:8	104:25,25	276:22 301:17
pretty 42:14	226:16,24	proceed 35:24	105:15,15	306:4 308:22
52:12 65:2,23	250:5 270:15	40:17 57:7	106:2 110:4	319:19 326:21
71:24 76:25	295:18 357:9	122:7,23	112:13,17	335:7 352:24
199:22 306:16	386:22	144:24 152:23	116:3 117:16	374:7
438:21	priorities 309:16	152:24 153:23	119:4 120:20	processing
prevent 418:8	314:19	215:16 218:1	121:16 125:2	307:13
previous 132:21	prioritize 317:8	299:6 304:24	125:20 131:23	procure 131:16
167:9 171:11	370:2	305:8 322:9	138:12,21,23	258:6
289:18 304:18	prioritizing	337:9,16 357:1	138:24 139:1,2	procurement
previously 13:18	369:20	391:19,21,25	139:6 144:8	11:24 85:14,14
95:13 109:18	priority 159:17	392:8 396:23	145:2 146:12	87:15 118:7
247:9 321:4	269:3 308:4	397:2 398:22	147:1,12,15	131:14 132:8
379:4 394:18	309:2,11,12,20	407:7 415:22	148:2,25 150:6	134:15 158:17
price 131:18	309:25 310:4	418:9 431:23	150:10 151:1	257:11 320:9
165:9 166:18	313:10 314:9	proceeding 6:3	158:12 180:20	procurements
215:9	315:17 317:25	155:13 194:4	207:17 259:1,3	131:6 257:5,7
prices 165:18	318:16 322:22	194:12 214:16	274:5,11,17	258:3
166:6,11 167:6	328:14 370:4	247:9 267:3	281:23 289:22	produced 12:18
169:3,17,25	private 149:12	329:18,24	293:10 295:3,4	214:11 346:17

420:9 422:6,7 product 126:2 profession 387:2 professional 10:2 profoundly 368:20 program 51:15 51:21 53:13,15 53:19 55:10 119:22 121:17 131:8,9,10 132:18 133:20 134:3,15,18 136:3,17 137:4 148:22 149:6,7 150:3,9,10,17 151:12 152:8 152:17 159:3 161:2,6,8,17 161:18 165:8 165:10 169:11 169:25 171:21 177:5,17 213:8 254:6,16,18 271:13,20,21 272:8 273:4 308:7,8 309:4 309:10,16 310:3 313:8,25 317:2 362:22 363:21 368:6 370:1 376:16 456:11 programatic 175:16,22 177:12 programs 131:11 169:14 progress 319:2 376:14 prohibitions 108:3 project 7:15,19 7:24 27:9,15 28:8,15 29:5,9	29:10,11 31:23 36:23 37:24 39:2 41:9,12 45:17 46:10 49:12,16,20 50:23 51:10 52:25 54:7 56:11,22 59:17 67:10 72:5 75:8 76:20 77:12,19,21,23 78:3,8 80:21 81:24 85:24 87:13,14 88:2 91:1,2 93:14 94:6,15 97:3 97:16 98:17 103:6 105:12 106:13 108:12 110:11 111:19 115:24,25 117:25 118:1 122:7 128:2,3 128:25 129:7 129:11 132:12 133:5,11,18,19 135:2,3,6,7 136:20,21,23 136:24,24 137:1,12,23,25 138:4,8 139:5 139:13,17,23 140:1,20,21 149:2,10 167:6 169:5 170:8 171:23 176:6 178:17,17 179:6 180:16 180:16,22 184:1,5,10 187:12,15 194:4 204:21 207:18 215:7 217:17,23 218:12 220:5 221:10 222:4	223:25 224:25 230:14,24 232:1,10 240:19 259:16 275:10 276:19 277:14 278:14 279:11 280:12 281:21 283:3,3 286:19 290:3 290:12 295:8 298:15,18,24 303:13 305:22 317:9 321:9 327:19 328:3,6 328:11,13 329:13 331:5 331:22 337:9,9 337:12 348:21 349:2,3,10 356:25 357:1 371:17 372:3 379:3,4 389:19 391:21 394:21 397:1,15 399:7 402:6 403:20 404:4,13,24 406:9,14,15,19 407:5,6 431:22 431:23 435:7 437:5,23 448:18 project-specific 283:8 projects 7:16,16 11:7 12:3,8 13:12,17 33:17 37:13,22,24 41:2 43:1 51:19,21 53:5 75:9,10,20 91:5,18,22 95:7 96:9 112:9 116:12 120:4 121:8,16 124:24 131:21 133:2 135:11	135:22 136:20 137:3,9,12,14 139:14 153:16 157:10 160:25 162:14 163:11 163:13,14,17 170:24 172:1 173:11 176:9 176:14 177:20 183:24 185:7,9 185:10,14 186:17 187:8,9 187:12 191:11 191:25 192:3 192:11,14,18 193:18 194:14 194:25 196:18 196:20,23,24 197:3,4,6,8,10 197:11,13,17 197:18,22,25 198:1,9,12,22 198:24 201:6 215:18 231:3 255:3 257:25 273:11 274:6 275:5,20 276:2 276:25 278:5,9 279:16 284:14 287:3 290:25 291:1,4,4 293:4 300:9,21 309:17 311:15 313:10,23 314:2,10 315:11,13,17 315:22 316:25 319:1 324:9 350:2 351:17 358:13,16 361:5,8 364:1 371:7 372:6 373:22 390:1 417:24 421:14 421:17 432:6 433:3 450:18	promise 25:2 234:6 245:20 246:4,5 450:10 promised 239:11 245:21 promises 245:25 293:4 promoted 423:24 436:15 promoting 436:13 prompted 45:23 promulgated 288:14 pronounce 5:13 263:1 properly 263:2 properties 106:10 282:4 proponent 41:18 91:6 98:25 169:5 254:3 298:9,18,23 305:7,8 323:19 323:21,25 331:18 336:1 378:16 proponent's 180:22 proponent-dri... 41:14,20 proponents 33:1 73:23 120:20 121:21 295:10 304:13 326:25 345:1 415:22 418:9 424:1 proposal 29:23 30:11 65:9 72:19 81:2 84:2 115:13 236:12,13,14 238:21 250:12 288:3 291:13 349:18,19 353:22 376:3
---	---	---	---	--

412:14,22 414:4 415:6 418:24 419:18 proposals 82:24 83:7 85:18,22 91:12 300:8 377:8 propose 101:13 319:4 proposed 32:2 51:20,21 57:22 58:24 63:10 64:13,20 65:14 66:7 169:3 202:16 237:8 237:17,21 238:6,7,10 239:5 244:3 274:14 275:9 284:13 285:11 286:19 349:5,9 351:22 362:19 372:3,20 400:12 401:19 406:14 415:1 421:4 428:17 450:19 proposes 290:2 290:11 proposing 32:13 33:25 35:16 58:6 324:17 pros 217:18 prose 291:20 prospective 205:10 protect 42:17 154:17 protected 106:9 120:16 286:7 Protection 13:11 13:15,19 41:1 41:23,24 42:2 42:7,8,12,21 54:23,25 55:5 55:12 75:22	76:6,9,14 113:24 117:4 120:7 438:19 450:15 protective 282:4 protocol 182:22 188:25 protocols 125:22 protracted 122:3 proud 387:2 proven 195:8 provide 8:23,24 20:16 23:17 29:8 31:2 58:2 66:24 75:5 160:15 162:9 162:11 187:22 221:21 233:3 277:1,12 293:7 294:1 301:11 320:10 333:10 333:18 344:13 356:17 384:2 388:10 389:4 414:18 431:14 provided 27:23 72:3,4,5 100:23 129:3 129:13 141:15 145:7,16,16 153:13,14,19 154:2,3,11 172:14 179:17 186:13 187:18 187:24 188:6 209:25 219:8 235:1 238:18 264:10 279:9 279:23 283:2 293:17 329:3 370:25 389:14 429:18 430:14 provides 19:20 22:19 42:13 113:11 114:5	274:16 275:17 providing 49:25 61:24 291:17 303:2 province 50:24 62:2 230:16 232:17 236:21 254:11 258:11 314:16 326:5 358:9,10 384:15 422:21 449:15 province-wide 23:8 26:6,10 36:9,17 51:2,7 114:12 339:11 provincial 21:13 31:25 37:6 274:5,11 280:24 319:19 348:3 provision 102:10,15 104:17,22 105:8 123:18 129:10 163:21 190:19 202:12 204:14 288:25 290:22 332:8 392:12 provisions 12:24 101:11,18,20 108:2 129:11 146:25 201:16 225:10,13,18 229:12 288:9 297:11 307:19 339:4 392:14 proximity 93:14 PS&Ps 74:13,15 74:17 public 16:23 30:10 36:22 58:9 67:15 79:2,8 94:16 100:18 105:19	122:10 123:23 147:7,15 180:4 180:15 199:25 282:14 326:4 363:20 391:3,3 449:10 452:17 457:4 Publication 109:10 published 13:22 20:22 38:21 39:6,13,13 publishes 39:6 57:12 pull 140:16 424:24 pulled 126:7 punchline 48:8 purchasing 254:8 255:1 purpose 84:22 85:3 138:18 327:18 329:12 361:3 421:12 purposes 140:13 256:13 322:1 335:6 381:18 pursuant 141:9 172:8 174:14 177:21 202:10 208:5 pursue 188:23 purview 179:2 379:17 pushed 128:16 pushing 126:1 put 4:21,23 10:19 36:23 38:17 54:10 62:16 98:7 112:7 113:4 115:9 116:11 116:24 125:23 126:11 127:10 132:19 144:21 144:21 150:25	153:4 160:20 188:1 197:6 210:25 211:9 231:6 239:19 244:16,18 247:3 253:14 255:5 256:17 258:20,20 265:8 290:18 304:5 305:23 310:1 329:17 329:23 333:13 337:4 347:19 374:15 376:11 425:4,5,20 440:25 putting 20:7 62:8 87:7 216:10 258:19 345:23 433:13 439:1,13 <hr/> Q <hr/> Q&As 353:20 qualifications 159:19 quality 98:3 quarrel 337:21 quashed 231:4 question 8:17,25 42:14 48:11 51:9 88:15 96:12,13 99:10 118:9,11 119:12 120:9 121:11 125:12 135:19 140:8 140:11 143:16 144:2,4,7,10 145:14 148:11 151:13 156:16 162:7 164:9,13 167:25 168:3 170:19 178:12 180:11,12,14 180:21 181:3,4
---	--	--	---	--

181:6 183:18 183:20,20 186:4,5 188:14 188:15 194:2 200:11 201:5 201:12,17 211:24 212:10 214:20 247:11 247:14 248:14 248:18 250:18 250:23 259:6 262:4 269:20 311:2 359:1,13 378:20 388:7 388:13 389:1,7 389:18 398:25 402:20,22 408:11,17,19 409:23,24 422:4,6 426:12 427:2 428:3 439:20 440:20 440:21 441:4 441:23 442:12 442:12,13 447:9 448:25 453:3,9 questioned 129:1 134:6 questioning 188:21 questions 3:13 3:19,25 4:15 6:20,23,24 8:1 8:24 9:7 45:12 101:9 104:4,6 112:4 113:16 117:17 119:3,6 119:8 128:1,1 134:25 140:5,6 140:7,12 142:4 142:10,10,14 152:1 153:25 156:7,10,11 157:25 158:2 164:20 167:18	168:22 179:25 180:3 188:1,4 188:7 200:7 244:18 248:21 251:8,11,15 253:6,9,10 262:19,20,21 269:14,15,25 270:2 299:19 373:16,20 377:11,12,13 381:5,6 383:18 383:21 388:18 398:3,11,19 401:9 404:7 406:21 411:23 411:24 418:14 428:23 444:1,3 444:7,11 446:13,14 453:5,10 455:25 queue 176:10 309:9,11 quick 270:4 417:6 quickly 101:18 109:24 127:4 147:24 150:8 241:23 279:24 294:9 296:3 318:21,25 319:7 322:5,15 372:16 414:14 419:3 454:12 quiet 34:6 quite 14:4 87:4 98:12 101:16 254:22 314:24 331:16 378:13 426:18 454:12 454:13,18,19 457:11 quotation 31:3 <hr/> R <hr/>	R 1:17 457:22 R-0081 374:25 R-0092 140:16 R-0105 36:22 R-0118 57:11 R-0213 216:25 R-0264 241:2 R-0528 55:18 R-199 412:14 R-208 390:14 R-209 429:23 R-254 240:3 R-266 365:11 R-528 87:5 R-553 393:23 R-555 399:25 R-numbers 9:9 radar 368:10 railway 16:24 raise 8:10 227:21 247:12 250:24 raised 4:18 226:15 227:19 228:22 379:6 398:4 407:22 raising 375:23 418:1 range 24:18 169:9 192:9 197:19 ranked 133:4 rare 333:10,12 333:17 451:15 454:13 rash 345:25 rate 55:7,10,11 170:15 rates 30:1 rational 345:2 rationale 312:16 313:1 342:4 343:22 344:2,3 344:7,8,14,19 347:18 378:9 rationalize	116:21 re-call 153:24 re-elected 384:9 384:19 RE-EXAMIN... 3:5,7,12,18,24 100:21 142:8 251:14 373:18 444:10 re-read 17:14 18:11 68:22 re-reading 149:19 REA 11:20,22 12:1,7,19,21 12:24 13:3,7,9 13:15,22,24 14:1,4 15:23 18:22,23 19:14 20:16,21,22 22:25 31:7 32:8,22 33:2 34:13 35:18 37:1,5,14 38:11,17 46:21 51:3,9,13,15 51:16,24 52:1 52:23,25 53:13 53:24 54:1,3 54:16,17,19,20 55:9,24 56:5 58:14 59:11 60:19 61:19 64:12 66:18 76:1 83:9 87:25 89:20 95:20,25,25 96:4,19,22,25 97:4,5,7,18 99:2,5,16,19 99:24,25 100:1 101:9 102:3 104:24 109:23 110:4 112:13 113:17 114:9 121:16 126:8	126:16 148:25 150:6,10 207:17 230:19 232:11,20 279:13 285:8 285:11 287:13 288:1 289:12 292:22 338:11 338:24 346:25 367:18 375:25 376:19,24 415:22 417:13 417:25 418:4 REA's 67:1 reach 81:15 93:7 266:7 441:25 reached 46:19 189:22 193:25 reaches 199:23 react 239:4 378:1 reaction 247:7 352:14,18 377:24,25 read 5:18 9:20 11:16 18:17 21:15 23:11 26:17 30:8 32:9 44:3 47:8 47:23 48:23 59:2 60:23 64:22 66:12 73:17 74:2,14 74:16,18,18 76:24 77:4,7 103:23 141:2,3 141:19 155:4 165:23 169:15 170:18 172:21 203:20 248:12 266:18 268:20 289:15 302:6 302:24 303:14 304:3,17 305:2 305:16 307:10 308:9,19
---	--	--	--	--

311:17 312:5 312:14,24 313:14,17 314:10,20 318:1,9,17 320:2,15 324:4 324:10,18 325:3,14,19 326:13 327:16 328:21 330:17 331:7 344:23 348:1 349:23 358:19 360:18 368:17,25 369:8,11 372:15,20 374:9 377:6 382:19 388:6 409:17,19 410:23 419:23 428:1 433:14 440:17 453:20 457:13 reading 47:9,10 211:21 212:7 225:5 276:7 320:6 356:10 368:15 372:16 401:12 406:12 reads 37:19 46:25 57:25 ready 4:4,5 151:6 152:23 152:24 153:1 315:15 331:5 331:21 376:15 377:8 Real-time 460:9 realistic 136:4 151:12 realize 225:20 226:19 228:5 253:16 really 4:25 24:21 33:11 42:13 56:17 60:16	65:6 77:20 91:11 95:24 114:25 115:10 120:3 123:4 126:1 128:15 129:8,9 131:4 138:10,22 149:16 169:19 177:4 191:20 191:22 197:13 208:20 233:21 315:8 378:24 390:15 401:14 422:2 432:22 437:9 444:3,21 444:21 realm 104:5,6 rear-guard 434:10 reason 26:23 35:2 45:5 81:2 81:4,22 124:11 144:16 163:19 166:9 202:1 252:19 331:8 334:15 337:21 337:25 366:14 378:22,25 379:1 389:23 401:6 430:18 435:14 reasonable 27:14 33:22 34:2 42:16 60:6 122:19 152:18 169:6 170:15 reasonably 116:13,14 reasoning 27:16 28:4 reasons 26:25,25 161:17 175:16 240:11 252:22 441:1 reassuring	328:16 rebuild 89:2 recall 11:10 56:3 101:8 153:9,16 154:9 172:23 174:17,25 177:3 190:11 193:20 245:24 264:8 265:9 334:2,6 339:14 339:17 340:19 349:2 352:14 375:2 385:22 389:3,13 390:4 393:1 396:5 416:11,13,22 429:9 436:1 443:7 446:7 recalled 388:25 recap 72:10 receipt 209:21 241:6 297:16 306:23 receive 160:21 296:12 311:16 318:16 received 34:9 85:22,23 160:22 180:23 184:4,6 192:19 196:18 199:1 200:19 201:7,7 229:23 265:6 307:5,15 311:10 312:19 315:18 327:25 352:5 356:5 374:17 410:21 431:6 453:16 453:18 receives 298:2 310:18 receiving 86:22 296:9,19 297:3 328:14 349:16 receptor 28:2	117:5 128:11 receptors 18:5 22:3 24:6 63:22 76:7,8 76:15,21 recess 100:13 152:20 189:10 265:25 321:23 382:12 recipients 217:11 reciprocal 201:1 recognize 20:23 57:13 294:13 Recognizes 330:18 recollect 288:12 334:9 354:22 355:8 405:25 407:13 409:2 recollecting 432:19 438:3 recollection 289:11 335:5 340:4,10 349:22 395:7 396:5 404:6 408:5 432:17 451:2,7 453:15 recommendati... 76:10 349:19 450:11 recommendati... 367:3 449:22 recommended 349:24 413:2,6 415:10 420:20 421:4 reconfiguration 146:7,23 321:5 reconfiguratio... 333:15 reconstruct 44:6 reconstructed 88:24 record 5:18 9:11	29:18 34:22 36:22 43:6 55:17 101:22 101:25 126:11 138:2 139:17 148:4 153:4 154:13 155:4 171:10,12 180:4,15 181:14 187:21 188:2 201:21 224:10 265:8 266:17 294:11 304:21 305:4 305:11 309:16 311:25 312:13 321:4 328:15 334:13 336:13 337:14 338:8 340:16 346:21 347:25 351:11 366:1 372:15 372:17 382:18 393:18 395:25 399:20 412:4 413:20 419:6 419:16 422:5 428:12 432:10 437:22 439:19 457:9,11,16 recorded 8:20 recording 227:5 227:6 422:11 records 107:4,18 281:4 286:4 399:17,18 recover 169:5 red 30:8 403:3 411:4,12 437:11 438:16 446:10 454:2 redactions 216:9 redirect 6:23 100:6 251:11 373:17 444:7 redistribute 5:5
---	--	--	--	---

redistribution 384:11	357:6 393:11 410:4 413:11	regarding 115:12 142:20	418:7,11 439:3 441:11 443:3	301:19 303:11 363:16 380:20
reduce 141:12	413:15	145:23 166:14	443:17 450:24	410:16
reduced 134:17	refers 18:6 40:22	211:7 232:12	regulations	relates 112:23
reducing 254:13	104:19 114:18	244:25 308:17	13:14 19:11	123:17 162:8
302:1	205:9 288:20	regardless 135:3	38:16,17 39:23	165:9
Reductions 98:7	319:3	regards 158:23	42:9 51:16	relating 270:12
reengaged 34:5	refinement	195:6 233:4,7	53:13 63:10	275:13
34:9	380:4	253:1 254:4	116:4 285:15	relation 172:10
reengaging	reflect 173:11	regime 193:12	335:8 376:13	272:10 380:13
34:10	222:5 231:10	239:19	390:8 397:21	457:2
refer 67:20	232:5	regions 349:25	397:25 398:16	relations 230:3
91:11 104:13	reflected 314:6	351:17	398:18 405:16	relationship
114:2 117:5	reflecting	registry 58:21	407:19 410:25	148:21 380:15
240:5 280:20	347:24	64:17	411:3 438:9	relative 345:13
329:6	reflection 303:1	regs 398:9	443:15 448:5	release 11:23
reference 22:7	347:10	regular 255:6	448:12 452:18	53:15 60:18
33:12 86:4	reflects 39:8	452:7	regulator 109:22	120:25 138:21
103:25 273:13	124:12,15,16	regulating 21:10	regulators 33:24	138:23,24
276:11 288:6	136:11 169:17	54:24 433:25	35:7,20 45:8	139:2 148:24
288:21 338:14	218:11 220:4,6	452:4	regulatory 11:9	148:25 150:6
368:13 373:9	222:2 277:20	regulation 12:7	11:15,19,22	150:10 164:10
378:22 414:8	277:24 301:3	13:13,22 14:1	30:19 31:5	164:15,18
referenced	402:10,12	14:9,17 19:18	34:10 37:10	212:1,13,18,23
288:22 379:4	439:18	20:22 24:12,19	39:20 44:21	213:5,19,22
references	REFO 118:18	39:13 58:15	49:24 63:2	261:2,16 262:5
104:11 321:10	118:19,20	59:1 60:19	64:15 77:9	262:6,14
referred 17:23	REFO's 119:1	61:12 63:14	89:21 94:10	265:16 294:14
32:20 56:11	refresh 113:18	64:22 65:5	97:13 120:25	295:4 305:6
59:17 82:25	289:11 290:18	97:9 101:10,15	125:2 127:5,9	307:13 308:5
83:14 102:1	refund 210:4,20	101:23,24	127:13 138:18	309:3,15
291:15 387:22	refunded 204:9	102:3 103:24	151:7 294:4	310:25 311:9
423:13	210:1,23	104:11 113:1	380:16 389:25	311:14 312:20
referring 9:6	refusal 240:16	113:17 116:1	407:18,22,25	315:3 319:5,8
11:11 15:19,23	refused 142:23	126:10 230:17	417:10	319:10,12,18
38:5 42:10	143:2 210:20	232:11,18	reiterate 324:1	322:18 325:1
57:15 70:19	241:19 252:15	279:2,4,5	324:23	337:6 358:1,3
84:21 87:10	Reg 102:2,4	284:2,3 285:6	Rejoinder 240:4	360:16 361:4
88:25 102:3	105:4	285:8,11	relate 13:8 15:12	362:7,10 363:4
105:16 143:5,6	regard 158:1	287:13,13	18:21 364:16	376:3,12
143:9,11	160:11 254:25	288:1,14,20	related 13:22	417:20 418:13
145:18,19,21	255:5,15	289:12 290:24	27:13 44:1,9	418:17 420:16
148:18 185:10	376:14 398:12	291:11 294:9	55:1,2 61:10	420:19,25
199:10 258:14	398:13 438:20	294:18 320:25	61:25 75:20	421:13 426:1
258:16 306:11	447:16	334:20 338:11	191:20 246:5	released 264:25
345:11,21	regarded 272:22	415:2,7,11	281:19 287:4	447:11 448:2

releases 162:23	446:4,15	rent 371:14	255:6 272:11	188:5 210:3
relevance 17:22	451:18 452:2,5	372:5	272:12 280:6	240:1 243:14
relevant 17:9,12	remind 310:17	rental 370:12,18	280:13 281:4,7	260:21 333:16
42:9 61:1	406:2	371:5	281:11,14	454:14
75:22,23	reminded 90:7	repeat 8:17	282:1,3,8,19	requested 94:25
107:21 110:18	reminder 183:17	48:10 57:15	282:22,24	129:6 153:10
110:22 113:21	334:16 337:5	135:18 144:9	283:20,24	171:1 186:13
131:20 173:12	remove 120:9	repeated 360:25	284:6 291:25	209:23 240:18
271:15 275:14	removed 320:22	repeating	293:17,21	requesting
384:4	removing 28:12	226:20	294:2 339:1	243:5
relief 172:8	renewable 7:15	rephrase 201:12	report's 111:5,6	requests 174:15
191:5	11:7,24 12:3	205:1	report.' 417:15	177:22 321:6
Relocation	13:17 21:10	replaced 321:11	reporter 2:18,18	446:1
109:13	41:3 94:15	replaces 36:1	182:12 316:3	require 4:22
reluctant 143:3	112:9 118:16	37:6	460:9	22:24 114:9
rely 72:12	119:23 120:4	replenished	Reporting 1:22	132:6,9 137:17
353:19	120:23 134:1	240:19	reports 8:10	154:17 283:15
relying 72:7	147:11 149:2	report 8:13,13	9:15,17 18:22	325:12 338:24
89:22	157:10 165:19	8:14 9:16	72:11 77:5,10	required 18:22
remain 241:18	166:6 168:12	12:13,14,17,22	78:11 109:22	22:25 23:21
266:8	174:10 246:19	12:23,25,25	109:24 110:24	40:21 88:4,11
remainder 148:1	271:13,19	13:20 19:7,21	111:19 248:10	91:3,7 96:8
remained	272:8 273:11	23:2 24:9	256:4 279:23	131:2,25
443:11	274:6,14 275:5	32:23 34:15	279:25 280:2	132:23 170:11
remaining	275:9,19	43:3 44:25	281:18 283:1	215:5 235:23
458:14	276:13,15,24	51:4 52:11	283:16 292:12	244:11 261:22
remains 163:8	277:10,14,18	61:21,25 67:9	292:12,13,20	275:11,22
211:16	277:22 278:4,8	67:23 68:5,18	292:23 293:7	278:11 279:13
remarks 8:9	278:18 279:1,4	68:22 70:1,4	representation	280:1,6,9,13
remedies 210:8	279:11,13	70:11,23 71:5	440:13	282:3 284:16
210:12	284:1,13 285:5	71:12,17,17	representative	284:24 285:18
remedy 372:16	285:14 287:13	72:2,4,12,14	2:6 230:4	285:20 290:6
remember 44:4	289:22 290:3,5	78:10,10,12,14	representatives	290:23 316:8
61:19 73:4	290:9,12,24,25	78:15,16 110:5	224:15 327:12	336:4 338:25
93:18 183:17	291:3 293:3	110:6,7,9,10	328:23 362:24	requirement
183:20 249:8	299:25 302:5	110:10,10,11	represented	35:5 78:4
312:18 333:23	307:18 320:24	110:12,12,13	440:9	80:14,17 112:8
354:5,12,17,24	321:11 328:20	110:22 111:3,7	representing	113:16 114:1
355:1 361:23	355:24 376:25	111:8,13,15,17	442:19	115:2 122:20
368:21 387:11	416:15,24	111:18,20,22	represents 80:2	129:9 150:17
387:15,19,19	417:2 450:18	111:24 112:6	440:2	163:15 275:25
388:13 389:18	renewal 319:24	112:20,24	reps 29:8	281:3,10,18
395:9 396:8,9	renovation	113:2,4,12	request 82:24	282:18 284:5
410:7 416:18	137:9	114:20 116:7	83:7 141:9	287:9 293:16
438:1 441:22	renovations	117:13 157:18	153:11 156:16	294:1 312:2
443:4 445:8	137:13	248:7,9 255:6	172:5 173:1	320:22 347:9

433:17	31:13 58:17	86:17 115:21	45:22 46:9	retroactive
requirements	61:9 304:2	139:17 153:6	84:2	96:23 98:11
12:11 28:20	364:8,14	153:12,15	responsibilities	retroactively
31:14 32:4,6,9	368:17 369:4	159:17 176:2	387:13	49:16 51:10
32:13,16,25	369:22 380:9	191:10 211:6	responsibility	53:4,7 97:2,16
38:6,7 49:12	384:17,22	215:14 273:18	159:7 364:15	182:24
58:5,14,23	391:19 408:15	278:12 281:20	378:10 438:8	retrospective
59:9,11 60:1	441:2 443:13	285:24 290:4	438:17	97:18 205:10
61:5 63:7	researchers	290:19,20,22	responsible 61:5	205:11
64:19 76:2,3	452:18	291:18 298:10	61:7,7,8	return 162:15
83:10 94:11	reservations	299:14 309:13	123:24 271:23	162:17,19,24
96:1 97:11,23	397:9,13 399:1	318:25 331:9	370:16,18	163:6,19,23
97:23 98:14	399:2,23	332:15 334:18	371:20 450:8	164:7,11,14,16
104:20 105:2	reserved 100:10	337:6 348:4	450:16 454:4	164:19 169:7
109:13 112:16	189:6 210:16	367:22 369:16	rest 39:23	170:15 188:25
113:19,25	reserves 210:7	410:13 413:22	restart 201:5	210:5 212:3,12
114:5,7 116:12	reserving 264:8	414:25	restrict 192:11	212:15,19,24
117:2,11	residences 22:2	respected 65:3	restricted 1:12	213:3,18
128:11,22	24:6	respectfully	179:20 180:9	240:16,17
131:12,23	resolve 423:19	264:17 354:19	181:22 183:14	261:16,22
132:10 133:6	resolved 334:19	respects 69:13	189:12,16	262:14
147:9,14,17	resource 67:8	69:18 77:12	200:4 457:5,7	returned 125:6
149:8,8,9,20	68:18 72:11	respond 45:10	458:20	163:4 204:9
159:9,11,21	145:8 270:12	50:8 126:25	restrictions	210:2 240:18
160:8 231:9	302:17 326:23	375:11	154:8	251:25 252:4,8
235:22 273:10	328:19 344:7	responded	restrictive 129:9	262:1
274:12,19	380:4	126:15	result 154:4	returning
275:4,19	resources 2:15	respondent 1:8	172:4 303:22	221:23
276:22 277:7	106:13 107:13	2:7 4:5 5:7,9	376:11 407:13	returns 162:13
278:4,8,22,25	148:13 220:21	182:7 262:24	resulted 153:11	Revenue 384:24
281:17 283:9	270:9,21	269:12,14	results 24:15	review 48:22
283:14,24	277:13 282:5	383:19 457:15	34:8 263:11	50:18 67:23
284:12 285:4,7	287:21 293:8	458:6	432:12	92:22 107:4,19
285:14 290:15	293:11 295:16	respondents	resume 100:15	148:2 157:20
290:21,21	301:1,7,22	84:4	218:20 266:3	159:18,20,21
307:19 324:8	302:24 303:24	responding	resumed 240:19	174:11 178:1
324:15 325:3	327:14 328:24	343:20	resumes 189:12	264:10 274:13
326:17 374:10	329:21 339:7	response 85:24	resuming 4:2	275:8 279:7,10
377:3 415:5,9	340:1 346:16	124:6,10 139:6	100:14 152:21	281:4 286:4
415:15	369:25 379:18	145:13 148:10	189:11 266:1	293:13 294:15
requires 40:12	411:15 445:12	171:20 237:18	321:24 382:13	296:25 307:7
93:15 96:4	449:15 450:14	237:21 238:7,9	retained 7:20	311:14 319:10
184:10 292:15	respect 19:17	238:10 239:6	10:12 167:19	320:2 352:24
requiring	23:22 29:4	240:7,15 241:4	210:20 235:22	388:10 397:24
284:22	39:5,12 40:19	374:16	281:22	417:6,11 439:7
research 2:13	63:18,23 80:25	responses 45:4,6	retired 329:19	452:20

reviewed 21:4 52:17 55:24 114:16 160:8 165:13 241:12 284:18,24 308:15 387:24 388:3 409:13 440:10	77:10 79:13,19 79:20,25 80:4 80:6 81:2,5,16 81:25 83:10,23 84:19,20 85:20 85:21 86:25 87:2,19 88:24 89:15 96:24 98:23 99:23 101:24 110:23 120:13,14,15 124:6 132:15 136:21 141:20 145:8 148:23 151:16 153:24 157:16 164:8 166:3,7 173:1 173:25 176:2 176:20,25 187:7 191:21 191:24 195:22 196:12 197:5 197:20,24 198:6,20 200:22 201:10 203:1,16 204:16,20,25 205:8,11,25 206:9 207:23 208:3,4,7,10 208:14,25 209:2,4,5,8 210:10,17 212:14,25 213:5 218:20 220:8 222:7,12 227:14 228:25 230:4 232:23 233:25 234:10 234:13,22 235:4 236:9,17 237:8 238:25 239:16 240:1,8 241:21 243:17 244:7 245:2,15 246:3 253:21	257:8 261:20 264:8 271:15 272:25 276:5 281:5 283:11 285:1,9,13,21 286:2,23,24 287:16 288:4,8 291:3,21 292:1 292:21 293:14 294:8,17,25 295:13 296:6 296:13 299:22 300:16 301:5 302:10 303:5 303:18 304:6 305:10,25 306:2,6,12 308:24,25 310:7 311:1 314:1 315:7 317:5,10,11,17 318:12,20 319:6,13 321:13,17 322:14 323:3,9 323:14,15 325:5 326:17 327:3 329:14 329:20 330:2 332:6,25 333:17 334:6 335:21 336:24 337:20 338:4 340:25 341:9 343:18 344:5,9 352:3 353:1 355:19 357:12 358:25 360:23 362:25 363:22 368:7,25 370:7 371:1,18 372:9 374:24 376:1 376:20 385:14 386:22 387:8 388:22 393:14 393:20,24	394:20 395:11 395:21,24 396:17 397:10 398:18 399:6,9 399:13,19 400:2,11 401:11 402:7,8 404:4 412:21 413:10 414:7 416:13,17,24 418:5 420:17 421:7 423:1 424:8 429:7,13 430:5 442:9 444:22 446:11 451:15 454:18 454:24 rights 16:23,24 163:2,3 164:10 164:15 193:16 210:7,11,16 212:1 235:21 295:5 296:4 438:19 rigour 443:7 rise 140:6 326:8 381:5 risk 20:14 44:1 92:2 151:18 376:15 448:7 rivers 270:20 RL 220:23 RMR 460:8,8 road 16:23 roads 26:18 roadways 26:21 26:22 28:1 Robert 183:8 rock 280:23 Rodney 2:8 8:7 Roeper 3:2 5:12 5:12,21 7:6,8 7:25 8:5 10:24 100:8,23 101:3 101:8 102:7 109:19 112:11	119:5 142:11 142:17 143:16 143:23 144:3 145:13 152:3 role 93:6 118:14 119:1 124:16 127:16 157:7 157:12 241:9 271:10,14 273:1,18,19 277:23,24 292:24 293:10 302:1 311:22 355:17 373:24 416:14 435:6 roles 271:18 287:20 roll 150:5 roll-out 53:19 119:23 rolled 51:16 80:13,22,23 97:15,21,24 98:18 116:20 126:8 134:18 149:6 rolling 62:20 126:16 149:7 Romero 457:23 room 100:10 164:24 179:23 180:7,13 181:8 181:24 182:1,5 183:6 189:6 227:13 345:7 345:11 346:1,9 364:4 395:10 396:10,13 Rosalyn 3:15 266:21,25 323:12,19 325:25 Rosalyn's 326:9 rough 186:22 211:21 roughly 81:10
--	--	--	--	---

186:19,20 334:10 RPR 460:21 rubber 54:17 96:20 rule 14:8 38:25 39:22 62:8 63:18 77:25 116:24 117:10 349:20,23,24 458:19 ruled 51:14 rules 1:3 12:3,8 13:2,3,5,7,23 13:24,25 16:7 19:10 20:17 21:14 22:20 28:6 37:21 39:1,25 40:4,9 50:22 51:6,7 51:23 52:19,24 53:2,3,25 59:19 62:16,20 97:1 98:17 99:1,13 131:13 131:16 133:2 161:9 167:15 324:14 325:13 326:11,14 338:19 351:16 356:19 357:2 405:5,7 431:16 431:24 452:14 run 27:11 35:5 43:16 124:5 125:1 386:17 420:23 running 343:19 381:15 415:6 rural 24:16	450:6 safety 282:14 sake 159:24 163:9 272:17 saltwater 447:5 sat 445:24 satisfied 140:20 satisfies 149:20 satisfy 33:2 save 92:12 saw 59:21 66:23 67:2 81:17 99:23 116:10 119:21 126:4 126:17 136:3,8 145:7 150:1 400:21 411:12 416:2 446:10 saying 9:9 28:13 44:4 45:2,13 45:14,25 54:22 56:20 60:8 117:1 139:22 144:21 150:5 203:8 227:8 228:6,15 229:3 238:17 261:13 263:13 274:1 306:21 311:22 314:22,25 315:12 316:24 322:22 323:12 325:23 331:11 332:19 343:21 344:1,2,24 348:7 353:4 361:1 363:1 396:4 400:5 401:3 402:4 407:10 408:3,4 434:8 436:5 443:4 444:15 448:13 452:2 says 16:15 19:20 21:7,23 22:9 25:11 26:1,3	30:12 39:16 42:15 43:21 46:14 63:6,9 66:6 69:7 102:20 103:17 108:9 114:7 126:25 127:3 141:1,5 146:6 146:23 149:18 165:16 166:6 169:2 170:4 171:17 201:25 203:24 209:19 214:20 215:12 217:14,21 219:17 220:22 223:8 224:23 230:7 231:16 232:8,9,14 233:19 234:1 237:17,21,23 239:2,3 241:5 248:23 249:1,7 249:13 250:1 268:24 275:6 276:14 283:6 283:22 284:11 285:2,15 286:12 289:4 289:20,23 294:21 296:10 296:16 297:13 299:23 300:5 300:17 301:9 301:13,24 302:15 303:5,8 304:8,20 305:10 308:2 308:10 312:11 312:15 314:7 317:19 318:14 323:16 324:5 324:11 325:15 327:10 328:23 330:7,11 331:2 335:15,23	336:12 338:17 338:18 339:4 339:23 341:18 342:5,8,17,18 342:24 343:21 345:5 346:8 347:5 348:18 356:1 358:8 360:13,19 361:12 362:4,8 365:1,18 369:19 397:7 414:10 416:4 417:6,8,16 418:10 421:10 421:21 422:5 429:12 430:10 431:2 SB 348:16,16 scale 400:12 405:18 406:18 437:9 scenarios 128:18 schedule 98:14 100:2 118:1 137:15 138:5 165:9 191:23 195:21 208:23 297:15 298:4 428:17 scheduled 307:8 365:22 396:16 schedules 118:2 167:9 science 10:5,5 28:20 217:23 218:1 221:5,20 344:6 347:4,6 347:15 352:19 356:18 357:2 362:20,22 363:16,21 368:3,4,6 380:18 391:22 397:22 398:1 398:10 405:10	408:13 411:3 415:13,18,20 431:15,24 434:2 436:25 437:5,6 439:1 439:14 440:3 441:10,18,18 442:4 443:4,17 446:14 448:11 448:14,15,16 450:22 452:12 452:15 scientific 28:5 35:5 207:9 280:23 342:13 378:8 391:19 405:17 439:19 441:19 442:22 443:7,12 452:17 scientist 34:12 411:14 445:7,7 scientists 56:4 scope 31:6,12 33:12,21,25 34:14 35:11,16 35:16,17,21 368:5 370:22 scoping 31:23 score 133:3 screen 9:19,21 9:22 67:20 84:7 375:7 screening 24:9 se 93:23 Sea 447:6 Sean 242:21 249:10,11,15 332:17,19 400:1,21 season 87:24 sec 426:6 second 12:6,20 21:7,22,23 43:21 54:14 57:24 68:24
S				
Sabrina 242:16 sad 326:7 safe 448:8,9 449:7,11,24				

74:2,5 82:22	202:11 251:19	65:25 66:5,13	340:7,9 341:25	69:12 95:7
83:2,17,19	272:8 278:7	68:1,24 69:4	342:15 343:9	97:22 109:18
84:22 96:11	286:10 288:10	69:17 70:22	343:14,19	118:1 123:1
103:12 161:1	288:16,19	73:12,13,20	346:18,23	138:23 139:10
311:5 313:3	289:19 291:15	78:8,16 80:1	348:5,10	139:14 161:23
318:21 323:5	292:1,2,2,3,7	83:21 84:5,17	350:18 351:25	166:22 218:15
337:7,11	316:5 370:17	84:17 90:4	353:1 355:21	242:8,10
338:13 340:17	370:21,25	100:24,25	357:24 358:1,2	307:22 359:21
344:10 346:2	Section-- 107:25	112:13 119:25	358:7 359:25	360:20 361:21
352:1 356:2	sections 17:18	126:21 127:16	360:1,5,13,19	362:12 379:22
358:8 359:23	19:4 20:19	136:4 140:23	360:22,24,25	410:6 418:25
359:24 365:18	271:23 284:24	140:25 141:1	361:11 362:1	419:19,20
370:10 374:12	290:20	142:9 153:21	364:9 365:14	420:1,6,12
391:24 392:2	secure 317:3	154:20 157:1	365:23 368:13	440:16
400:20 420:22	secured 313:12	159:2,7 161:2	375:6 390:16	Seers 2:2 3:3,5,7
421:1 424:14	447:4	165:24 166:4,8	391:17 392:1,4	3:11 7:5,7 8:2
456:19	security 162:15	166:15,16	392:9,17 393:5	14:21 15:22
secondly 130:6	162:17,25	203:14 214:16	393:25 394:5,7	16:1 18:25
secretary 4:11	163:4,7,8,19	214:20 219:24	395:25 396:18	57:14 74:19
189:8 434:7	163:23 164:8	223:12,13	396:21 397:3	100:16,17,20
456:23	164:11,15,16	224:19 230:1	399:13,17,25	100:21 104:7
section 14:19,20	164:19 204:8	231:17 237:16	400:14,19	119:7 142:4,8
14:23 15:2,3,5	209:25 210:6	239:7 241:25	402:9 409:20	144:1,11
15:6,19,23	210:21,24	242:22,23	412:6 413:1,8	145:12 152:2
16:6,8 17:21	212:3,5,13,16	248:20 250:16	414:7 416:9	152:13,19,22
18:3,9 19:4,6	212:20,24	253:23 259:15	418:2 420:14	156:16 164:22
19:15,16 25:10	213:4,18	264:20 265:1	420:22 421:3,7	164:23,24
32:19,22,24	221:16 225:18	272:13 273:12	421:21 423:5,5	165:1,3 167:22
33:7 34:14,17	229:15 235:22	283:12,19	424:4,6,8	168:1 179:20
34:21 37:3	240:16,18	288:19,25	426:10,16	179:24 180:14
51:4 61:25	258:20 261:16	289:2,3,3,19	429:3,4,5,13	183:1,4,12
69:15 83:17,19	261:23 262:14	291:25 292:7	430:6,24 431:1	184:7 186:7,10
99:23 102:7,19	sediment 403:25	292:10 293:18	432:4,4,8,11	188:9,11,19
104:16 105:5	404:19 451:22	293:22,24	432:15 433:15	189:14,15,20
105:10,18,24	see 4:11 9:7	299:16 306:20	434:20 435:1,6	196:6 200:3,5
106:5,9,12,15	15:25 17:4	306:21 310:8	435:7 439:22	200:8,9,25
106:18,22,25	18:21 21:16,20	310:16,21	447:24 451:13	201:4 214:2,6
107:3,6,9,12	22:4,7 23:12	311:1,4,6	seeing 345:22	214:9 216:18
107:16,18,22	29:2,22 32:10	312:6,8 314:6	361:22,23	216:23 218:23
108:5,14,17,21	34:1 37:16	318:22 321:13	456:17	220:14 236:3,5
108:24 109:2,4	38:2 40:5	324:20 330:6	seek 385:18	240:25 243:21
109:7,9,12,15	43:10,12 44:5	332:16,18	435:21	243:25 247:17
109:19 112:19	44:13 46:22	334:21 335:1	seeking 58:7	247:18 251:10
113:1 140:23	48:13 49:1	335:13 337:10	375:18	262:21 263:9
141:7,10 163:2	56:1,2 59:3	337:17,18	seen 4:9 42:6	372:18,24
201:20,22	63:16 64:23	338:11,14	62:3 66:19	373:4,6,10,14

424:22 425:5 457:21 selected 89:14 selection 132:14 sell 259:4 send 96:2,5 182:23 332:11 365:20 457:8 458:8 sending 317:15 332:16 352:6 sends 242:20,24 332:20 senior 44:16 46:11 397:5,6 397:19 398:8 407:21 410:22 437:1 438:14 446:9 sense 40:6 192:8 199:1 221:1 229:23 271:24 315:25 316:3 381:20 senses 126:24 sensitive 91:21 95:12 sent 43:5 220:17 237:16 241:8 242:13 297:23 348:2 421:9 430:6,7 sentence 21:6,23 37:19 47:17 50:14 sentiment 399:4 separate 281:23 292:19 293:16 370:15,16 separately 89:20 95:19 180:2 187:19 separation 23:9 26:7 268:2 339:12 340:7 September	51:15 52:15 60:11 80:10 97:6 146:15,16 146:17 148:16 157:12 167:8 268:18 273:2 288:13 294:6 307:20 375:19 sequence 423:5 sequestration 266:12 sequestered 263:13,20,21 263:23,25 264:3,18 265:4 266:9 series 131:5 144:22 146:3 396:10 serious 132:25 398:4 seriously 89:16 servant 438:15 446:13 servants 430:9 serve 384:20 386:20 served 384:6,8 384:13,15 Service 380:6 services 1:22 31:4 242:17 394:15,16 serving 387:6 session 30:10 100:19 189:17 365:21 set 19:11 20:16 24:5,19 30:25 33:7 35:15 44:10 53:13 59:25 60:1 98:9 118:2 131:18 207:11 215:9 219:20 241:16 274:19	286:5 319:15 337:25 339:16 369:18 380:9 394:1,5 395:3 398:15 401:7 405:5 411:24 442:23 448:5 450:18 setback 18:4,6 22:1,8,11 23:18,20,22,25 23:25 24:11 25:8,15,18,21 25:24 26:1 27:12,18,20,20 27:23 28:6,9 28:11,13 35:3 35:4 40:16 42:18 57:23 61:2,4 63:16 63:22 65:17 69:8,12 70:8 71:2 72:13 73:3 75:19,25 76:12 77:1,20 78:7 80:9 81:5 81:6,13,16 113:16 114:4,7 114:13 116:18 122:3,14,20 146:14,25 333:23,24 334:5,19 342:18,23,25 344:3,4,6 347:9,15,17 348:8 353:13 358:18 378:9 378:11 415:3 setbacks 13:25 23:15 26:11,23 26:24 27:7,24 35:14 36:12 38:20 42:10 120:14 291:17 340:12,22	347:1 348:5 353:18 sets 41:6 84:10 99:19 102:10 104:24 290:7 295:1 341:22 362:9,9 setting 24:16 28:12 51:23 76:16 97:14 276:3 363:24 settle 376:13 settled 122:20 settlement 121:24 260:14 seven 157:17 304:12 449:19 seven-year 98:4 184:20,21 Sgurr 8:14 9:16 71:12,17 72:12 78:11,13,15,24 Shane 2:7 Shanghai 388:14,19 shape 135:3 share 298:18 380:17 shared 235:5,7 420:10 422:8 422:13,15 442:1,6 sharing 336:7 she'll 183:6 sheds 26:21 sheep 125:16 127:2 Shelly 429:18 430:14 434:7 Sherkey 2:3 457:21 458:3 shift 120:6 shifted 41:22 shipping 90:19 113:5 129:14 285:24	Shoal 29:5 Shoals 7:19 10:17 47:2 115:25 310:24 328:11 356:25 406:15 431:22 shoes 124:8 shop 55:3 shore 80:6 81:14 81:14 343:6 358:18 446:20 shoreline 65:9 65:18,20 66:1 66:7 68:20 69:8 72:13,20 73:13 74:25 77:1,2,3,7,8 79:19 80:4 81:3 115:14 128:4 shorelines 74:11 75:14 76:25 117:6 short 126:16 137:2 152:11 251:15 305:19 shortage 101:5 shorthand 208:6 shortly 34:8 239:13 should 17:17:55 344:20 shovel-ready 309:17 313:23 314:1,15 315:13,15 318:23 319:1 show 67:20 72:14 132:10 132:15 149:13 149:14 364:25 399:18 409:21 410:3,15 435:3 437:17,22 440:15 showed 128:24
---	--	---	--	--

148:8 414:5 420:21 421:5 433:9 showing 423:18 shown 363:10 372:13 435:1 437:16,21 shows 345:12 367:8,10 413:20 shuffled 82:4 side 62:14 94:6 137:18,19 139:22 153:5 162:24,24 163:25 164:4 226:13 227:8 246:20 247:8 248:19 253:17 253:19 293:15 332:24 337:10 382:8 411:22 420:11 445:22 sides 162:24 261:16 445:21 sign 65:2 151:5 151:6 162:10 183:7 signal 299:5 342:10 signalled 140:19 signature 155:17 267:5 signed 40:1 49:22 56:24 85:10,11 151:20 158:19 178:18 186:16 202:17,20 211:17 419:22 453:25 significance 107:10 355:10 significant 20:11 20:12 41:9,10 59:23 69:1	91:17 117:15 130:4 280:23 280:24 376:13 signing 44:2 47:2 130:25 183:15 silent 418:3,11 silly 265:11 similar 33:17 94:6 99:7,8 115:4 161:13 199:12,13,20 344:16,21 426:18 similarly 63:20 365:24 simple 151:22 162:5 439:20 simplest 131:11 132:7 simplifies 24:1 simplify 28:7 simplistic 62:14 simply 39:19 40:14 62:8 92:10 98:21 144:3 167:22 250:18 265:5 270:3 354:20 370:23 406:1 406:19 409:1 410:19 427:15 456:24 Simultaneous 14:13 175:12 181:11 185:25 simultaneously 217:24 single 24:14,24 68:6 77:11 103:3 141:11 274:17 448:19 sir 84:23 207:15 210:25 239:9 259:24 389:16 399:14 403:9	404:10 406:1,3 408:2,16,16 409:20 410:15 410:20 411:11 412:3,14 413:11,17 414:3 420:1 421:1 423:2 426:11 427:15 429:5 432:3 433:1,13 434:23 435:9 435:16 437:15 437:25 439:11 439:11,13,20 440:5,19,19,24 441:12 442:10 442:16,18 443:25 454:9 456:7 sit 225:7 228:3 229:9 298:9,17 site 11:22 36:4,6 53:15 60:18 81:24 88:22 89:4,22 90:1 95:6,6,8,14 107:6,22 114:20 120:25 132:15,18 138:16,20,21 138:23,24 139:2,7,11 140:2 147:4 148:22,24,25 150:6,10 269:5 281:6 282:8 285:22 294:14 294:14 295:4 297:1 298:19 298:19 301:18 305:6 307:13 308:5 309:2,15 310:2,25 311:9 311:14 312:19 315:2 318:1,9	318:12 319:4,8 319:10,12,18 320:1,22 322:18 325:1 336:6 337:6 376:3,12 378:16,23 379:22,23 380:13,20 401:19,21 417:20 418:12 418:17 449:18 site-by-site 327:1 site-specific 20:6 43:1 51:3 114:19 115:5 331:18 381:1 sites 304:15 403:22 404:15 sits 298:16 sitting 56:19 178:3 188:3 213:2 situation 114:17 119:19 121:19 124:18,21 142:18 159:13 159:16 161:13 175:18 177:15 189:24 191:2 208:19 231:11 232:5 260:6 six 137:10 337:15 sixth 308:1 349:18 size 135:3 345:13 407:6 sizes 135:11 skill 460:4,16 skip 357:25 slap 222:1 sleep 456:13,15 slide 166:5 170:2 170:4 345:12	417:8,8,16 418:2 slides 345:22 slightly 129:10 131:17 small 4:19 112:25 140:8 187:8 small-scale 406:16 smaller 135:7 321:9 smarter 214:25 snowiest 138:3 snowstorm 196:7 Snowstorms 196:9 social 343:16 379:10 solar 135:16 136:24,24 137:23 193:6 278:13 338:15 417:3 sole 433:17 solely 153:24 278:17 solemnly 5:22 155:8 266:21 382:22 soliciting 91:13 solid 79:16 solution 225:24 264:21 454:22 solutions 77:24 solve 25:15 somebody 39:16 46:5 87:7 93:11 94:22 124:10 213:11 234:17 239:20 253:3 333:4 somewhat 388:5 soon 146:14 207:3 306:16
---	---	---	--	--

315:24	450:5	36:1,4 38:19	223:15 354:18	staff 7:14 46:12
sorry 29:19	South 348:20	42:9,23,24	speculating	63:2 81:10
47:24 48:3,4,7	349:1,3,9	49:25 58:13	61:18 80:16	126:1 219:14
54:19 70:12,18	379:4	59:11 61:9	speculative	219:19 231:16
74:3 78:13	southwestern	75:21 82:2	346:2 354:10	272:22 277:4
104:2 117:5	303:15	98:2,8 104:5	354:13	297:7 298:17
135:18 143:22	space 236:21	117:3 175:1	speculators	303:25 323:1
182:9 186:6	252:20,21,25	192:23 197:14	312:17	327:4,6 328:9
200:20 245:4	253:3 257:13	199:6 202:24	speed 412:19	347:12 360:9
252:7 267:16	257:16,21	233:12 256:1	spelled 375:23	360:10 362:3
267:19 273:14	258:6,11,12,16	291:15 301:18	Spelliscy 2:7	371:22 374:6
288:15 289:19	258:22,25	303:12 315:22	3:22,24 213:25	399:18 400:3,5
302:7 310:14	447:24	342:23 347:8	251:12 350:24	402:22,23
313:17 317:12	span 98:4	396:4 401:21	381:20 382:5	410:13,16
345:8 346:4	speak 5:24 11:1	404:7 415:18	383:23,24	411:8 412:8
350:5,7 358:5	75:15 100:9	415:20	385:3 390:17	419:23 423:20
361:2 362:25	125:5 138:11	specific-requi...	409:22,25	426:24 427:3,7
365:1 366:2	155:10 169:20	64:10	419:2,9 422:2	433:16 434:7
369:14 376:5	169:24 171:4	specifically 11:8	422:12,15,18	435:11 436:8
385:8 409:20	189:3 228:24	12:12 13:16,23	424:17 427:23	436:10,16,24
419:11 420:23	230:13 245:25	17:24 18:7	428:8,11	437:13 446:9
421:11 426:25	246:12 257:17	26:4 38:24	429:20 440:8	453:22,23
440:22 445:3,4	266:23 382:24	39:22 43:21	444:8,10 453:6	455:13
454:13 458:7	411:9 429:4	44:9 61:1	456:3 458:11	staffer 363:3
sort 10:25 13:25	436:7,9	75:15,20 76:1	spend 82:8	stage 136:25
34:5 35:17	speakers 14:13	112:5 114:4	438:16	179:15 276:20
36:3 43:13	175:12 181:11	123:17 125:9	spent 4:10,14	stages 91:3
46:1 54:15	185:25	140:22 144:2	352:18	staging 89:1
57:7 61:16	speaking 30:3	146:1 192:7	spit 77:3	stakeholders
81:12 98:24	78:22 104:24	235:17 245:13	spits 74:21 75:2	93:16,25
116:2 129:1	184:1 231:20	245:25 246:7	spoke 10:20 46:2	380:16
139:20 149:14	231:21 314:11	252:14 369:10	75:14 349:4	stamp 54:18
199:1 213:19	417:23 442:20	457:3	spot 455:21	96:20
233:15 253:14	speaks 15:7 19:6	specification	spring 85:5,8	stand 230:10
322:4 445:7	38:22 352:17	110:14	118:5,6 211:6	standalone
sought 375:17	special 22:20	specifications	Squires 2:8 3:10	78:21,25
sound 59:6,6,8	280:25 338:19	28:6 60:1	3:12 156:7,19	standard 23:25
85:19	species 92:2	110:13,21	156:23 157:3	25:3,3,4,17
sounds 85:21	113:9 270:21	111:23	164:21 167:11	28:12 40:16
258:24 326:6	281:19,20	specifics 19:13	175:10 179:16	63:15 77:25
361:9 421:18	286:7,8,8	117:10 245:4	181:20 182:14	114:2,2,3,12
source 398:14	specific 8:25	specified 108:21	200:20 201:19	131:8,18 135:1
405:19 442:1	13:21 14:8	108:24 172:2	207:24 211:20	159:3 161:8
448:19	19:9,14,15,18	295:16	251:14 253:8	188:25 194:8
sources 300:1	24:20 25:14	specify 234:2,4	Squires' 211:23	213:8
346:9 449:6,11	28:15,17,18,20	speculate 61:16	St 89:12	standardize

75:21	156:1 207:7	273:1	structures 17:23	262:4 277:4
standards 23:9	223:21 224:19	stay 46:13	struggle 98:1	355:5 358:16
24:23 25:6	228:20 235:13	182:16,17	struggling	370:8
26:7 29:1,2	266:18 267:2,4	221:4 223:11	150:25	submarine
36:15 42:9	267:7,10 268:3	223:18 456:16	student 369:6	113:6 285:25
55:1 65:4	268:13,16,21	step 97:10 122:9	studies 20:9	submission
76:16 97:11,24	277:20 299:13	180:7 277:16	36:5 39:1 63:8	133:2 149:8
120:15 160:4	312:6 327:10	322:18	85:16 87:6	274:8,9 279:10
339:12	329:4,6 331:21	steps 99:20	114:22 129:18	307:10 350:19
Standing 247:20	333:7 355:15	112:16 131:25	144:22 207:10	submissions
standpoint	364:7 366:16	139:5 153:21	284:23 285:20	51:18 53:24
348:10	367:13 370:9	154:17 211:9	287:7,10	145:11 167:21
Stantec 85:25	370:11 383:3,5	295:5 300:23	290:22 292:11	292:24
86:1,5,6,18	383:9,12	305:18 335:15	293:6 324:15	submit 14:23
93:10	385:12 386:10	336:11 338:6	325:11 367:19	23:1 132:22
start 11:2 33:14	387:22,25	338:10 414:15	367:23 368:9,9	239:9 264:17
102:6 152:8	388:10 389:5	stick 453:2	368:10 369:16	275:12 285:18
157:7 273:6	389:11,13,15	sticking 291:21	391:20,25	308:6 309:3
292:8 323:5	389:17 397:14	293:1	401:16 439:19	338:25 417:14
340:17 356:1	403:1 404:11	stipulates 164:7	442:22 452:17	submitted 6:2
378:15 400:20	434:24 435:18	stir 403:21	study 29:15	34:7 72:18,18
412:10 448:17	439:25 442:21	404:14 447:1	30:22 31:1,14	85:19 109:22
started 101:7	449:23	451:22	32:3,5,8,13,25	122:13 155:13
128:6 146:18	statements 6:2	stop 8:18 108:1	33:22 34:14	215:18 237:7,9
260:12 326:15	6:10,13 8:12	127:3 131:13	35:1 38:5,7	237:10 267:2
326:16 367:15	267:18 268:5	156:20 162:22	59:9 111:17,18	284:18 285:20
387:3 388:16	268:11 318:23	191:6	144:24 233:13	312:22 383:3
438:24	405:25	stopped 433:3	281:13 285:12	subsection
starting 16:8	states 72:24	story 343:24	286:17,22	102:20 108:7,8
28:8 33:20	93:13 356:21	straightforward	291:18 328:18	subsequent
186:8 429:24	362:23	131:5	367:4 380:7	58:20 228:21
430:2	stating 304:4	strain 447:18	452:8,8	358:24 441:9
starts 33:12	status 132:15,18	strategy 320:23	studying 233:8	subsequently
203:22 311:6	148:4 149:10	stream 125:7	stuff 39:24 45:2	161:4 200:16
334:22 348:6	149:14,15,17	streamline	45:19 49:17,19	384:9,15,23,24
state 5:17 37:9	149:19 150:16	320:18	53:22,23 61:10	388:20 389:6
155:4 223:20	161:20,25	streamlined	77:8,15 91:11	390:5 397:24
266:16 382:18	162:2 179:6	274:4	118:25 125:23	398:2 439:8
440:3	304:21 305:4	Street 1:10,23	126:5,14,18	443:9
stated 82:23	305:11,19	1:23	129:15,20,20	success 55:6,10
147:16	307:2 308:14	strength 11:9,14	129:23 132:22	55:11
statement 11:6	308:18 311:25	stretch 354:18	139:24 446:19	successful
11:12 12:7	312:13 328:15	Strictly 417:22	subject 58:20	121:16 134:14
29:12 82:23	336:13	strong 254:17	64:16 126:17	269:1 317:7
83:2,4 155:13	statute 287:16	402:14	154:7 193:11	successfully
155:19,23	statutes 270:13	structure 294:5	194:4 240:18	112:17

443:20 suck 221:1 361:6 421:15 suddenly 81:3 Sue 355:22 430:3,4 431:1 sufficient 301:17 suggest 46:23 72:25 73:21 100:5 152:8 265:20 344:6 344:24 354:20 368:19 suggested 30:24 228:6 263:7 342:18 365:19 suggesting 26:2 52:24 365:25 suggestion 372:20 suggestions 372:18 Suite 1:10 suited 118:8 sum 66:15 summary 47:18 48:14 110:9 111:13 summer 25:23 56:18 77:15 85:17 87:23 95:5 superior 209:16 222:18 353:17 354:3 355:5,11 supplemented 58:16 supplied 318:1 supplier 141:8 141:10 158:8 159:5,5 162:9 162:17,20 163:3 190:21 191:4,17 195:10 204:10 241:10 253:2	258:19 259:14 supplier's 159:2 195:9,16 suppliers 157:21 158:23 159:15 195:11 supply 133:22 133:23 165:19 166:7 244:6 255:15 300:3 302:5 418:15 447:20 support 145:10 235:2 238:19 286:13 315:11 328:10 342:4 343:23 344:2,3 347:7,14 352:19 354:8 378:9 393:9 414:16 415:14 435:3,6 supporting 293:12 316:25 supports 302:3 suppose 203:3 423:18 supposed 25:12 40:20 80:9 96:2 113:4 146:15 257:9 298:3 381:23 442:14 Supreme 452:22 sure 11:17 14:11 15:5 17:16 18:12 23:19 78:18 82:10 93:8 94:5,7 96:12 99:10 101:6 128:21 141:4 164:1 178:20 186:6 190:10 192:12 197:1 201:18 228:19 233:23	234:25 253:12 258:4,10 263:10 264:6 284:9 313:19 365:8 381:24 382:1 383:22 388:3 390:12 391:7 397:18 399:21 413:11 414:21 416:3,7 422:4,10 426:7 427:13,20 428:13,25 439:16 440:10 440:11 444:9 Surely 442:7 surface 15:11 22:22 103:21 110:11 111:20 129:3 289:9 338:22 surplus 134:11 134:13 surprise 333:4 442:18 surprised 116:19 123:4 142:23 143:2 243:18 423:23 442:25 445:10 surprising 135:4 Susanna 2:9 suspect 170:2 269:21 suspend 379:16 suspending 379:1 suspension 378:21 380:2 sustainable 300:3 swap 129:4,5 145:24 swapping 146:5 swaps 333:14 Sweden 401:15	sworn 384:21 402:21 Sylvie 2:7 system 2:16 11:9 11:15,19 77:9 102:23 127:5,9 127:10 294:1 417:13 Systems 108:22 <hr/> T <hr/> tab 9:12,14 14:12,15,16 20:20,23,24,25 29:17,19 36:18 43:5 55:16,21 57:10,15 64:1 67:7 69:25 70:2,8,12,13 70:14,17,20 71:6 72:15,16 72:17 83:12 101:22 165:5 171:8,12,14 173:7,21 174:6 201:21 209:10 214:12 216:24 218:24 220:15 224:8 237:12 240:3,5 241:1 241:24 247:25 273:13,15 287:14 293:19 294:11 299:9 306:14 307:23 310:8,14,15 316:22,23 317:12 319:8 322:16 327:8 330:5 332:13 334:12,12 335:12 337:3 340:15,16 346:12,13,14 347:23 349:15 350:6,7,8,10	350:17,25 351:10 353:3 355:20 357:23 361:25 362:1 365:11 366:1,2 366:2,4 372:20 372:22 373:1 377:14 390:14 391:8,11 393:23 400:17 412:13 413:12 416:9,9 420:3 420:6 423:4 424:12 426:4 426:13 428:25 429:23 439:15 Tablet 2:7 table 18:20,24 18:25 19:1,3,5 34:17,18,21 54:8,10 99:23 103:12 109:17 109:21 110:2 113:1 235:16 238:7 283:25 284:8 291:24 292:1 293:19 383:6 391:18 445:24 tables 292:7 take 9:4 12:20 18:19 33:21,23 35:20 46:7 55:14 67:7 69:6 72:14 89:3 93:18 95:4 101:18 102:8 104:17 119:13 122:9 124:7 127:1 135:15 165:15 166:17 170:2 188:2 189:8 199:15 201:15 212:4 214:12 224:8 226:5
---	--	---	--	--

234:22 240:12	388:22 395:25	technical 19:19	ten-minute	335:14 337:5
243:2 244:2	396:2 399:15	32:25 38:25	152:14	351:11 373:13
246:14 247:6	411:13 415:16	39:8 59:8 60:1	tend 127:15	384:7 402:24
247:19 255:24	439:13 443:5	60:20,24 63:8	tenor 451:6	412:6 426:15
273:2 274:21	444:24	87:6 116:22	tenure 295:7	435:2
274:25 276:3	talked 66:16	128:1 131:25	387:17	Terry 2:2 3:17
281:17 284:3,9	134:12 177:18	152:11 268:1	Teresa 2:18	3:23 4:19 5:6
288:9 289:17	177:18,19,20	315:1 379:1	460:8	153:3,9 154:9
294:22 295:5	190:11,15	381:18	term 90:9	154:14,22
299:9,17	226:12 313:22	technically 40:4	170:17 207:10	182:9,13 264:5
302:12,25	323:13,17	97:12 132:11	216:4 257:21	265:2 266:6,11
305:17 310:12	362:11 410:12	314:13	369:17,22	267:16,20,23
316:6 317:12	443:13	technologies	384:8,12	270:25 271:1
318:7,11 327:3	talking 14:19	135:10 165:20	442:23 445:9	315:23 316:2
338:6 345:20	34:16 38:6,9	166:1,7,10	446:20	316:12,15,20
349:8,17	38:10,25 43:18	169:10 193:10	terminate	316:21 321:25
354:15 355:7	61:21 76:13,14	technology	121:22 163:18	322:3,13
355:11 357:5	76:15 86:24	140:15 166:14	204:3 208:5	336:21,24
357:24 361:16	116:21 147:14	166:19	213:11,16	337:2 346:6
364:24 365:7	175:20 198:14	teleconference	251:18 252:2	350:7,10,13,14
370:10 374:12	203:4 211:13	356:4 431:5	261:14	350:23 351:2,6
376:15 387:23	256:25 257:11	telephone 224:9	terminated	354:19,25
389:16 391:13	317:2 326:15	224:13 396:11	180:18 213:5	359:3,12,15,19
396:15 412:3	344:18 392:20	tell 59:7 61:14	261:4	366:8,19
425:1 434:2,23	398:15 404:3	63:16 102:11	termination	372:12 374:13
443:10	404:11,23	118:13 139:15	162:20 163:1	381:7 382:1
take-back 46:1	407:17 413:22	158:14 185:13	163:10,11,21	385:4,5 388:7
taken 4:15	418:5 433:10	249:4,22	201:9 204:15	390:19 391:1,9
100:13 152:20	talks 255:6	287:23 349:21	208:7 209:6	393:20,22
154:17 189:10	289:21 293:21	349:22 377:23	210:17 212:22	395:8 397:19
256:17 258:7	296:8 304:18	377:24 387:14	212:23 225:11	405:1 407:16
264:15 265:25	315:9 330:10	397:19 432:16	225:16 229:14	409:15,24
300:22 316:4	338:16 367:13	436:11,16,20	235:21 245:15	410:1 411:5
321:23 382:12	tap 449:20	437:13 455:2	261:20	419:8,10 422:9
420:13 455:21	targeted 298:6	telling 91:12	terminology	422:13,17,25
takes 42:15	338:3	116:23 175:7	204:17	424:25 425:12
96:17 126:23	targeting 335:10	234:20 277:21	terms 4:11 33:12	425:15,18
137:10 353:16	Tariff 320:8	310:10 363:14	35:18 53:22	427:6 428:6,24
354:2	task 31:12	376:10 377:7	120:19 140:12	429:22 430:1
talk 35:10 45:8	Tavares 457:22	378:8 433:16	161:10 198:4,5	433:5 438:7
176:20 177:12	team 37:24	433:20	208:1 226:7	440:12,23
177:16 179:8	45:17 46:10	tells 25:15 115:1	236:14 250:20	441:21 442:17
190:16 216:6	59:17 77:23	227:23 341:19	256:1 261:21	443:25 444:6
234:16 355:15	82:2 84:1	ten 81:15 86:20	279:10 289:13	451:2 456:2,14
367:22 368:9	271:11 272:20	265:21 388:23	309:20 315:17	457:18,21,24
369:3 370:11	330:20	388:23	316:24 317:2	458:2,4,16

459:3 test 198:7 334:9 443:16 testified 404:25 435:11 testify 441:7 testifying 104:5 testimony 100:9 142:13 189:4 247:20 248:3 259:7 409:22 427:25 428:4 428:14,21 455:20 testing 221:10 295:6 298:14 304:25 305:15 330:23 tests 205:2 305:20,24 text 26:17 thank 5:10,16 6:1,18 7:4,25 8:2 54:13 67:6 96:10 100:3,4 100:12 104:9 118:10 119:5,7 127:24 134:23 138:14 142:1 151:25 152:2,3 152:4,6 153:1 154:22,23 155:2,12 156:6 156:13 157:5 164:21 182:2 183:2,16 188:11 189:8 189:13 216:22 251:9,10 253:7 253:8 259:24 261:24 262:2 262:17,22,23 262:25 263:4 264:4 265:18 266:2,14,14 267:1,15	269:10 270:23 270:24 325:24 336:24 373:15 373:19 377:10 377:12 378:18 378:19 381:3,9 381:10,11,13 381:19 382:7 382:10 383:2 383:17,22 385:1,3 391:7 444:6,8 453:7 453:8 456:4,5 456:6,7 457:1 459:3 thanking 375:8 Thanks 5:6 273:17 346:4 417:6 theirs 237:20 theme 376:2 thereabouts 156:17 thereof 436:25 thesis 369:6 they'd 150:16 345:23 thick 79:16 80:2 thing 29:2 68:8 70:5 71:1 75:17 121:4,20 123:5 184:9 206:14 259:4 437:8 439:2 446:11,25 450:5 454:1 things 9:21 26:11 27:15 28:7 35:13 42:16,19 55:2 60:3 90:15 98:5 122:14 131:12 143:21 146:6 150:23 157:22 160:6 178:6 226:15	226:15,21,22 226:23 228:12 228:17 229:21 230:10,14 232:15 235:18 305:23 320:22 321:1 328:12 370:6 388:4,5 402:25 412:19 418:18 419:23 439:10 447:2 447:10 450:2 450:15 451:16 455:11 think 10:22 11:13 14:4 15:1 18:16,17 20:18 25:22 31:20 34:16 38:10,12,22 42:20 44:11 46:8 49:8 51:13 56:7 57:7,8,18 60:11,15 63:11 65:6 67:4 68:3 68:5,6 75:17 80:15,22 82:14 84:21 85:5 86:3,8,13,17 87:7 93:22 96:7,11 97:3 98:2,10 99:22 100:1 102:9 104:19 111:22 115:14 119:21 122:5,17,25 123:5,22,25 124:6,12,13,15 124:16 126:2 126:21,22 127:10,19 128:16,21 129:12 132:19 134:14 135:14 136:7,11	138:10 142:6 143:20,23 151:15 156:24 159:13 173:12 175:6,8 176:17 178:3,4,9 179:9 180:24 187:10,11,11 187:15,23 189:22 196:21 198:4,5,9,15 199:22 200:21 206:13,15,17 206:19 208:8 208:15 211:22 212:21 217:5 226:10 228:20 228:24 231:21 234:16 236:4 237:10,24 245:24 246:1 248:5 255:11 255:18 258:8 259:12,13 260:23 264:12 269:24 271:12 271:18 273:14 310:9 315:4 319:3 322:3,25 323:1 326:8 333:2,6 343:16 345:25 350:24 352:17 353:7 354:16,20 355:4 359:15 359:16 361:14 362:14 366:5 366:16 367:12 368:18 374:5 376:1 377:18 378:4 380:13 380:23 381:21 388:23 390:3 390:17 396:11 396:14 399:5 419:3 421:23	422:5 425:2 427:24 428:3 428:12,20 440:9 444:19 445:2,24 452:6 452:21 456:14 458:9 thinking 193:23 316:5 330:21 334:17 335:14 337:6 362:20 thinks 10:8 433:24 third 55:22 64:5 181:10,12 195:11 273:25 296:7 300:17 319:16 345:4 392:4,9 third-from-last 318:22 third-hand 346:2 third-party 154:16 Thirteen 426:9 this?' 418:16 thought 61:3,17 80:19 87:12 116:16 122:2,4 136:16 222:25 224:7 226:14 228:7 229:2,4 315:18 345:1 345:15 379:10 398:22 411:10 432:19 446:11 450:23 452:7 454:24 thousands 388:2 452:15 three 80:12 89:15 92:4 133:5 137:10 149:1 157:25 160:4 178:5
--	--	---	---	---

184:19 221:6 226:15,22,23 226:25 227:20 228:6,12,17,20 229:21 235:18 240:17 254:9 254:20,23 356:16 388:15 390:3 391:18 396:7 428:9 431:13 457:3,8 three-quarters 192:16,17,18 192:21 199:5 three-year 173:23 184:15 throw 26:18 27:2 128:13 thrown 449:4 Thunder 209:1 209:3 Thursday 429:10 tied 133:20,21 ties 147:13 tight 28:24 56:13 138:13 138:13 151:14 151:15,16,18 time 4:9,10,12 4:14 6:25 9:3,5 13:12 18:18 21:5 25:4 34:6 34:12 36:1 41:25 45:19,21 49:3,22 52:10 52:13,20 56:10 56:19 57:21 60:8,20 61:14 75:18 80:10,18 82:9 86:25 87:12 89:16 94:3 95:5 98:4 98:10 100:1 101:17 103:24 113:17,20	114:13 115:9 116:14 117:23 118:20 119:25 126:11,17,19 130:13 131:13 132:5 134:3,8 134:8,17 135:25 136:8 136:15 138:5 146:15,22 148:13 150:19 152:4 156:11 156:18 158:6 159:15,20,21 159:23 165:13 167:13,15 168:14 172:1 176:8 180:1 184:17 185:8 186:18 188:10 190:1 200:22 201:2 203:11 203:13 205:21 207:1,3 208:12 208:18,19 210:12,13,13 215:8 221:5 222:9,25 223:2 230:16 232:16 269:15 271:15 272:7,15 279:3 288:12 292:25 294:10 295:17 299:5,12,19 301:4 303:2 305:7 307:17 309:18 310:16 310:17 316:7 316:18 320:10 321:20 322:1 326:23 330:21 331:12,21 333:24 334:17 335:5,14 336:16 337:6 339:15 340:21	341:5,13 343:11 347:12 347:19 352:13 355:8 356:17 357:17 360:7 361:20,22 363:17 366:13 368:2 369:5 372:2 373:13 374:11 379:9 379:16 380:11 381:13,16 383:21 384:4 387:10 388:23 388:24 389:23 391:18,22 392:17 393:3 397:22 406:25 409:3 419:6 428:12,13 429:9 431:14 438:14,17 442:14 445:2,9 446:8 454:24 457:4 timeframe 60:10 60:11 87:11 timeframes 118:3 timeline 56:11 56:14,15 87:16 135:21 136:15 137:4,5 151:10 151:13,18 184:16 185:19 298:6 334:10 334:25,25 335:1 timelines 28:25 98:5,8 131:20 135:2,5,9,10 135:14,18,23 135:24 136:2,7 137:2 138:7,7 152:17 163:22 164:12 212:9	319:1 334:18 337:25 338:3 timely 148:4 195:2 328:21 timer 200:21 times 85:6 134:7 134:10 138:16 160:4 239:14 257:21 307:22 423:12 428:10 timing 55:24 117:18,22 297:12 337:15 408:18 title 15:18 219:7 346:18 titled 15:3 today 4:18 8:16 11:1 18:18 112:1 153:23 164:14 185:14 212:11 213:2 235:14 242:9 269:21 316:14 322:8 373:23 381:17,23 384:13 386:8 428:16 430:19 442:15 444:13 today's 459:1 told 59:18 150:22 175:10 199:3 207:24 211:20 229:5 318:3,11 344:11 401:16 405:15 406:11 410:23 426:19 435:11 436:10 436:24 441:24 443:2,11 451:12 454:24 455:13 Toledo 447:23 447:25 450:1 tomorrow	206:24 207:3 207:14 208:12 401:1 456:12 456:17,24 tonight 182:23 326:1 tool 144:19 tools 123:1 277:13 top 46:14 66:5 73:11,16 126:13 127:21 165:17 186:21 198:18 237:22 280:8 289:1 345:4 361:12 393:7 416:18 425:22 434:6 434:21 438:15 446:12 topic 113:5 162:7 tornado 196:13 Toronto 1:10,24 4:1 total 196:19 totally 437:16 touching 390:22 tough 125:19 Tourism 58:18 towers 348:11 403:20 404:13 Toxic 98:7 toxin 447:19 448:2 track 382:10 TRADE 1:2 Trade/Ministry 2:14 traditionally 38:13 tragedy 449:2 449:19 450:2 450:12 TransCanada 244:5,10 245:1
--	---	---	---	---

245:5 250:5,8 TransCanada's 244:3 transcribed 460:5,17 transcript 1:9 1:11,14 68:10 79:4 180:9 189:12 200:4 211:22 216:17 218:22 220:13 226:9,9 227:4 227:5,9,10 240:24 246:15 247:7,20 248:3 248:13 337:1 346:5 351:5 373:6,9 374:22 377:21 382:11 390:24 456:8 457:2,12 transcription 224:9,12 266:18 transcripts 457:4 transformer 108:11 transition 40:24 transitioning 320:7 transmission 252:25 253:2 350:2 351:18 353:11,15 354:1 355:10 375:24 transparency 12:2 21:12 trap 139:15 treat 39:11 213:8 218:12 220:4 222:4 treated 67:5 121:6 122:25 125:13 142:20	143:17,19 144:13,16 328:4 treating 458:19 treatment 123:8 123:10 143:7 344:25 Treaty 92:22 tribunal 3:13,19 3:25 4:14 5:23 6:25 7:11,18 90:8 100:22 101:14 109:24 138:17 142:9 152:24,25 153:11 155:9 156:12 158:3 158:11 159:24 162:7,12 163:9 174:11 178:1 182:20 189:8 253:9 266:15 266:23 269:15 272:18 273:4 307:22 337:22 377:13 382:24 383:21 384:1 397:24 439:7 452:20 453:9 453:10 456:23 Tribunal's 140:5 140:6 trickle 127:4 tricky 352:21 tried 77:14 97:15 116:1 135:14 tries 113:2 127:22 139:10 395:22 trigger 90:14 99:12 triggered 90:13 90:23,24 92:17 116:24 204:20 trouble 45:14	true 112:1 195:13 312:10 332:12 truly 62:6 195:9 trust 456:12 truth 5:24,24,25 155:10,10,11 266:23,23,24 382:24,24,25 try 39:15,19 40:7 50:3,5 63:13 93:4,4 99:17 118:2 151:17 153:21 156:14 171:13 253:13,13 258:3 265:11 279:24 296:3 309:17 322:15 366:1 423:19 434:11 449:8 453:2 trying 41:21 47:7,21 48:17 50:6 54:6 63:11 75:5,20 77:19 92:14 113:22 116:21 120:4 125:18 141:20 143:13 150:5,8 193:2 193:24 196:23 246:16 254:23 321:15 385:9 396:12 398:17 398:18 406:2 407:12 409:8 424:1 455:3 turbine 15:10 16:18,22 17:2 24:6,24 68:17 81:14,15 82:6 82:7 89:3 103:19 109:9 129:14 289:7 403:19 404:12	446:17 turbines 22:22 23:23 24:11,14 75:25 81:24 82:4 89:10 109:12 128:23 289:13 330:21 330:22 333:25 338:21 339:16 339:21 343:9 343:13,15 344:21 345:14 345:23 399:11 452:16 turn 20:20 21:18 22:6 43:4 44:14 55:16 64:1 67:25 78:9 103:12 165:5,16 168:6 168:21 171:8 173:6,20 174:6 209:9 218:24 237:12 241:1 241:24 273:7 273:15,24 278:1 281:9,24 282:17 283:18 287:12,23 288:10 289:1 289:18 291:25 294:9 296:7,23 306:14 310:7 311:5 316:22 318:20 319:6,9 319:11 330:5 332:1,13 334:11 335:12 337:7 338:4,13 340:14 346:11 347:22 349:14 349:18 350:18 351:12 352:3 353:2 357:22 358:2 359:23 361:7 390:13	416:8 419:25 421:8,16 426:4 426:11,12 428:25 429:7 439:14 twelfth 19:4 Twelve 426:14 Twenty-five 350:11,12 Twenty-nine 366:3 Twenty-six 29:20 Twenty-three 57:18 twice 96:7 259:4 428:11 two 6:2 8:12 9:16 47:11 49:18 53:14 69:21,21 80:11 80:24 84:10 89:14 103:1 116:23 128:7 128:10 153:13 153:25 160:19 160:22 164:3 167:14 176:22 178:1 190:12 205:2,4,4,6,24 217:16 267:17 268:5 283:5 287:20 295:18 300:13 310:1 319:12 325:4 341:21 352:1 354:15 357:9 357:15 363:10 365:10 368:8 384:7 409:6 438:16 439:9 443:23 445:21 447:22 455:11 two-kilometre 116:18 two-year 203:12
---	---	--	---	---

203:13 205:13 225:10,15 229:13 245:15 type 135:12 161:1 333:8 399:3 types 135:22 160:16 190:12 457:3 typical 19:23 24:16,17 typically 19:11 26:25 27:24 35:6 36:15 42:6 53:4 93:7 95:8 143:13 333:2	341:23 undergo 373:22 undergoes 158:12 undergoing 193:19 undergone 315:19 undergraduate 445:13 underlying 153:17,20 188:6 376:2 underpurchase 255:2 understand 6:4 7:1 8:16 10:9 17:18 49:20 65:1 80:8 89:3 96:3 97:4 99:10 100:10 100:16 101:14 102:11 109:21 122:8 135:1 148:12 165:7 170:25 171:18 173:5 175:19 178:16 179:7 180:15 181:16 189:5 190:20 192:25 195:12 199:7,11 201:11 204:13 204:19 206:22 207:23 219:13 224:15 227:2,7 229:3 230:3 234:19 244:5,8 244:24 245:14 246:21,21 247:2 253:20 256:19 262:5 263:5 283:13 289:14 294:20 295:1,14 296:6 296:10 298:8	300:12,18,25 305:18 307:11 314:24 316:13 316:15 317:1 320:16 322:7 327:5 329:5,11 330:3,25 332:3 332:7 341:2 348:19 349:6 349:21 362:13 381:16 382:20 383:5 387:23 394:17,17 397:4 400:23 402:9,12 406:25 417:17 433:1 434:16 435:16 453:8 understanding 50:25 102:12 102:13,14 103:7,10 104:1 104:10,16,21 105:7 111:25 112:22 131:19 134:21 158:21 165:10 166:20 167:2,23,24 168:23 169:2 169:16,23 170:20,23 173:11 178:19 219:15 222:16 245:7 250:19 250:25 259:18 288:1,5 306:18 306:19 307:14 311:23 313:16 343:4 350:4 351:15,19 359:3,6 362:15 363:13 379:9 425:25 427:6 427:23 understandings 334:24	understood 118:19 119:2 145:10 199:7 224:4 265:13 279:5,6 379:21 undertake 30:11 36:5 275:11 286:16 undertaken 33:19,22 380:3 undertaking 159:2,10 183:7 183:15 291:16 underway 53:6 54:2,4 58:18 85:8 96:22 97:5 157:1 unequal 344:25 unexpected 121:25 unfairly 121:7 unfortunately 37:20 45:11 127:4 138:22 216:11 unhappy 386:14 395:20 402:18 455:18 uniform 356:19 357:2 431:16 431:24 uninhabitable 74:9,12 81:1 uninhabited 74:10,12 76:11 81:1 unique 177:14 224:25 260:10 uniqueness 225:21 universal 202:22 202:22 University 10:4 10:10 369:4 unusual 123:1 upcoming	330:18 423:7 updated 70:1,21 upfront 12:3 20:17 21:13 99:18 132:7 upheld 398:7 uphold 402:22 upshot 402:1 urgent 430:18 451:17 URS 2:13 use 11:14 18:18 25:15 28:19,20 31:24 33:19 34:24 35:8,9 35:22,23 38:20 38:20,24 39:18 51:24 65:19 77:12 89:11 90:9 115:3 231:1 305:19 330:22,24 371:16 401:15 425:13 useful 115:10 135:20 419:5 uses 65:20 usual 453:3 usually 33:24 43:16 114:1 117:4 Uwe 3:2 5:21 7:6
U				V
U 10:3,7 U.S 362:18 363:18 368:6 Uh-hmm 21:17 32:11 38:3,18 48:25 59:4 61:22 64:4 68:2 70:25 71:7 76:17,23 168:25 ultimately 380:10 unanticipated 195:20 uncertain 37:1 uncertainty 37:14 40:10,18 66:16,17,22 115:12,15,22 115:22,23,23 116:9 166:13 unchanged 241:18 UNCITRAL 1:3 unclear 14:13 167:17 175:12 181:11 185:25				vacuum 50:12 325:18 Valantina 2:10 valid 207:25 validation 34:1 valuable 252:21 258:13 value 250:14 258:18 values 281:1 336:8 344:8 varied 254:22

variety 128:18	223:2 234:12	Walker 457:22	121:3 122:10	109:4 110:11
various 2:5,13	234:14,17	Walkerton	131:16 134:19	111:20 122:16
82:3 86:14	237:6 256:15	449:3,18 450:3	144:4 147:17	129:18,19,22
118:21 271:10	257:6 258:21	Wallace 392:20	150:9 151:2	129:23 130:2,7
273:1 274:20	313:1 315:16	392:23,24,25	175:7,8 191:8	130:11 160:5
275:24 276:21	343:6 345:24	416:10 418:24	212:25 259:8,9	173:24 177:19
277:12 279:9	347:13	want 8:9 9:20	259:20 261:14	193:10,11
279:22 285:19	viewed 39:1	56:8 63:16,21	261:15 296:1	282:1 289:9
285:23 289:2	60:14 63:8	66:2 74:16	309:1 338:5	310:12 312:21
290:14,19,21	120:6	82:12 108:1	370:14 388:9	338:22 380:12
290:22 292:11	viewing 391:3	121:21,22	399:7 427:25	397:17 398:13
293:6 298:10	views 62:14	122:12 139:23	444:14,24	398:14 403:17
305:20,23	119:24 123:16	140:1 141:2	wanting 120:4	405:19 406:1
315:2 328:23	126:23 143:11	142:7 150:15	124:25	410:13,16
338:6 387:22	161:25 174:22	157:24 158:15	wants 8:25 39:9	411:25 438:18
393:16	241:15 347:11	176:20 177:7	39:14 123:21	442:1 447:3,11
vary 166:13	Virginia 341:10	197:15 200:12	179:21 361:13	447:12,13,16
vegetation 113:9	341:11	211:2 231:5	416:7 421:22	447:20,23
286:7	virtually 345:16	234:22 246:18	ware 243:12	448:1,1,2,20
Veijo 1:16	345:24	253:2 261:5	wasn't 45:3,5,11	449:2,6,11,14
verbalize 81:13	vis-à-vis 309:20	264:6,19	45:22 46:23	449:20,24
version 67:15	visual 343:1,5	265:10,10	64:25 65:14,17	450:6,9,9,14
78:19 457:4,5	348:9	267:16 271:10	87:25 125:9	450:14 451:21
457:6	volume 1:13	287:22,24	132:23 141:21	451:23
versions 98:21	307:3	289:16 290:17	141:22 143:24	water's 65:20
457:8	voluminous	297:10 299:6	169:19 179:4	66:1,4,10
versus 63:14,15	389:8	299:22 302:7	194:2 237:2,3	68:19 69:9
203:5 314:3	W	302:12 305:22	246:18 331:25	70:8 77:4
viability 315:1	waded 422:20	305:24 308:1	333:8 335:20	117:7,8
viable 314:14	wait 186:3 215:1	310:12,12	346:1 357:8	waters 88:17,19
vice-president	252:1 263:14	317:18 351:14	366:25 369:21	90:18 92:21
222:20 226:23	424:13	364:25 365:24	381:1,23 390:6	Wates 2:9
248:6	waited 34:7	366:1,8,9	405:5 417:3	way 5:13 19:25
vicinity 394:22	150:19 376:12	377:22 381:24	432:9 434:5	23:22 24:1
Victor 248:18,22	waiting 36:2	390:15 401:9	438:10,11	27:24 33:10
view 14:1 20:15	95:3,5	403:10,10	439:5 443:21	36:3 42:25
29:1 42:11	waive 209:7	407:16 408:25	448:15 452:12	46:24 50:8
51:5 93:20,22	262:12,13	415:25 422:1	454:19	53:8,10 54:14
97:12 114:7	waived 201:8	423:2 425:4	water 15:11	55:2 56:23
122:5,6 123:15	209:4,5,8	428:13 430:17	22:23 27:4,5,7	57:8 99:1
126:12 127:8	262:10	437:15 440:8	27:8,10,13,20	120:8 123:14
129:2 134:7,19	walk 66:3 77:11	440:16,24	35:13 45:10	126:12 127:8
139:9 142:20	101:12 109:20	451:14 452:25	66:3 74:8	137:2,8,20
143:15 144:3	109:23 164:5	454:2	92:12 103:21	166:24 169:17
144:12 150:7	273:23 299:23	wanted 44:23	107:16,18,22	176:18,22
161:22 162:3		48:12 53:20	108:5,17 109:2	184:16 187:11

196:19 201:15 203:8 205:1 206:25 208:10 208:17 213:9 341:3 346:3 373:7,11 378:1 378:17 385:22 408:12 422:12 423:9 426:10 435:25 439:3,6 442:13 452:19 456:11 ways 122:17 130:7 137:6 223:23 425:24 we'll 9:15 25:25 47:16 57:6 64:1 82:18 105:4 138:11 142:9 154:20 157:1 164:1 165:15 176:19 183:7 188:19 188:23,24 190:6,8 265:22 316:18 322:8 326:12 400:25 421:23 458:8 we're 8:11 15:17 25:11 28:8 30:9 40:20 51:23 52:12 54:8,10 60:23 75:5 77:19 79:7 101:6 102:3 104:3 105:4 113:3 121:4 136:13 136:18 137:11 153:22 159:9 168:23 171:5 171:14 179:9 180:5 188:4,21 192:13 193:25 203:4 204:16 220:15 225:23	250:10 255:12 255:25 257:5 258:4 264:7 309:21,22 317:1 351:11 353:6,18 361:9 366:5 372:16 385:9,11 387:8 388:11 400:6 402:5 411:7 421:18 425:3 427:21 428:15 433:19,25 452:3 we've 13:11 28:10 34:8 41:25 42:25 57:18 68:3 70:23 72:11 87:23 96:3 97:22 98:1 109:17 115:2 124:2,2 127:10 131:5 136:19 163:24 180:2 195:25 225:6 256:8 287:8 297:22 300:22 325:4 339:3 363:9 392:17 399:23 409:19 428:16 weather 195:22 196:1 weather-related 195:23,25 Wednesday 1:10 4:2 weed 312:16 week 154:6 233:16 323:17 388:21 394:2 weeks 137:10,10 137:11,11 337:15 341:21 409:6	welcome 8:23 155:1 382:17 385:2 well-defined 29:15 30:22 well-established 37:11 well-thought-... 76:22 went 53:14 118:6 121:20 121:23 129:21 226:11 313:21 327:2 353:14 353:25 355:9 386:9 398:2 410:23 411:8 411:23 441:10 446:15 451:16 weren't 49:2 62:8 94:11 130:14 149:4 228:16 229:20 238:18 251:4 292:19 299:11 321:6 332:3,4 332:7 333:14 361:17 363:7 398:9,19 423:15 426:22 432:23 West 341:11,11 Western 369:4 wet 66:2 wetland 15:11 103:22 289:10 wetlands 22:23 28:1 35:15 63:17 280:24 338:23 whatsoever 244:14 251:7 328:1 wherewithal 132:21 WI 47:2	wide 17:23 169:9 wide-spread 165:22 widely 166:13 wildlife 270:22 286:8 380:6 Wilkie 436:22 Wilkinson 3:21 316:14 322:8 322:10 381:16 381:21 382:15 382:22 383:1 383:25 385:6 386:17 391:11 391:11 394:6 397:8 427:24 428:2 434:12 443:16 444:12 452:23 456:5 Williams 457:22 willing 147:3 211:7 428:19 437:4 win 132:3 wind 12:8,12,14 12:17,21,22,25 13:4,6,8,20 14:2,4,5,6,18 15:3,6,7,8,10 15:12,18 16:7 16:11,11,17,19 16:22 17:2,9 17:10,10,13,18 17:22 18:7,9 18:21 19:7,10 19:17 22:8,10 22:14,21 23:1 23:6,15,16,23 24:8,10,11 25:1 26:14,15 27:17,21 31:8 31:15 32:14,23 34:14 35:12 38:21 40:15 42:23 43:2	44:24 49:11 51:4 52:11 58:4,13,24 59:10 61:21,25 63:7,17 64:10 64:20 67:8 68:18 70:21 72:11 75:25 91:17 101:10 102:12,16 103:1,3,8,8,19 104:13,22 105:8,21 106:3 106:4,8,11 108:10,15,20 109:9,12 110:1 110:12,22,24 111:9,21,24 112:5,20,23 113:4 114:8 115:3 116:5 117:12 122:10 126:18 130:5 135:16,17,22 136:3,20 145:8 147:10 151:10 160:5 166:3,18 166:19 167:2,3 176:6 178:25 185:10 186:17 186:25 187:4 189:25 192:11 192:13,18 196:22 197:10 197:11,17,18 197:25 198:1 198:12 214:16 215:6 230:20 230:22 232:12 232:21 278:13 279:16,18,20 281:21 283:2,3 283:19,23 284:5 285:17 287:3 288:2,2 288:6,17,21,22
--	---	---	---	---

289:5,7,13	4:7 6:20,23	261:7,13	5:15,19,21 6:2	265:23 266:5
291:4,24 293:3	7:19,20,23	306:13,15	6:5,11,14,17	266:20 267:2,6
293:16,21	10:12,17 11:7	310:18 320:3	7:2 8:12 11:5	267:8,11,14,17
294:2,14 295:3	29:5 34:6,7,9	322:23 327:5	11:12 12:6	267:20 268:7,9
297:4 299:3	40:11 50:23,23	329:13 337:8	14:22 15:21,23	268:12,15,20
300:8,20	51:20 52:9	337:13 340:19	17:20 19:1	268:23 269:8
301:20,25	67:10 83:25	389:19,24	29:12 47:13	289:18 299:13
302:17,18,23	86:22 88:7	390:4,7 391:20	74:21 79:9	316:10 322:10
303:21 304:12	94:25 117:19	391:24 392:1,9	82:22 83:2	327:9 329:4,6
305:22 306:8	117:23 119:18	392:11 394:21	84:9 119:21	329:17,24
307:6 312:20	122:24 123:6	396:7,25 400:7	121:10,15	333:7 350:22
317:15 320:22	124:20 125:8	400:9,13	123:10,15	351:8 354:16
324:3,17	125:13 126:20	401:13 404:4	124:22 125:16	354:21,23
326:23 328:3	130:20,24,25	404:23 405:12	128:5 129:19	355:14 359:9
328:18 333:25	132:16 142:20	407:1,14,23	130:16,19,23	359:11 364:7
338:16,20	143:7,17,19	408:8 432:20	131:4 132:13	366:11,16,16
339:1,9,16	144:13 145:3	438:5 444:14	133:12,19	367:12 370:9
343:15 344:21	149:3,5,18	Windstream's	135:8,23 136:6	370:10 371:2
345:13 350:1	151:17,23	29:11 55:19	138:20 139:21	377:18 378:4
351:17 355:3	162:14 164:13	142:19 143:5	142:6 144:9	379:3,17,24
356:15 361:10	165:3 176:3	161:21 176:4	145:4,6 152:6	380:3,22
363:17 364:16	177:14 185:8	177:11 203:14	152:9,12	381:11,14,23
368:14,17	186:18 190:2	205:22 207:24	154:25 155:2,7	382:16,21
369:9,17 371:7	203:18 206:11	211:1 218:12	155:13,15,18	383:3,7,10,13
372:6 378:21	207:16 209:19	220:5 222:4	155:21,24	383:16,22
379:1,11,14	210:1,21 211:6	251:19 259:10	156:2,5,13	385:12 387:21
381:1 385:17	212:10 213:15	337:15 372:2	180:24 181:5	387:25 388:10
386:3 399:10	216:5 217:16	winter 85:17	181:12 183:19	389:4,11,17
403:15 406:8	217:25 218:8	196:3	186:5,6 188:20	390:25 391:4,7
413:22 416:21	219:22 221:2	winters 138:2	189:5 200:7	393:21 397:13
417:3 421:19	221:21 223:18	wire 236:21	213:25 214:4,8	403:1 404:11
429:3 431:12	224:14 226:7	257:13,21	223:20 235:12	410:2 419:7
433:25 435:20	227:23 229:5	258:11,25	244:15 247:15	422:19 424:19
436:13 446:17	229:10 230:4	wires 194:18	253:12,15,18	425:6,16
447:6 452:13	230:14,24	198:7 256:9,25	253:21,24	428:13,23
452:16	231:14 232:7	257:3	254:4 255:9	429:24 434:24
windmills	233:2 234:20	wish 182:16	256:7,21,24	435:17 440:13
348:25	234:24 235:23	wished 222:16	257:4,23 258:2	440:14,22
window 295:11	237:22 239:4	224:5	258:15 259:2	442:16 449:23
296:2 299:8	240:2 241:3	withdrawn	259:12,25	452:25 453:14
306:9,11,17	242:3 243:5,16	304:19	260:4,7,13,16	453:16 454:8
307:6 326:20	245:16 252:1,5	withdraws	260:21 261:5	454:17,23
334:7 352:25	252:12,17	381:14	261:25 262:8	455:5,8,11,23
windows 138:24	256:6,10 257:9	withstanding	262:11 263:3,5	456:7
138:25 295:14	257:19 259:20	397:23	263:12,19,24	witnesses 155:5
Windstream 1:4	260:2,9,11,17	witness 4:22	264:4,24	264:16 266:19

382:19 Wolf 67:10 Wolfe 7:19 10:17 29:5 69:3,22 75:8 90:25 115:25 310:24 311:7 328:11 330:16 356:24 406:14 431:21 wonder 40:23 109:19 115:16 157:6 wondering 74:17 310:23 352:12 353:23 388:17 woodlands 280:25 word 11:14 38:25 39:22 40:7 49:9 60:16 65:19 68:6 231:2 259:13 435:9 wording 98:19 words 10:23 49:8 66:6 234:21 402:15 436:6 work 23:4 28:10 30:12 31:7 40:17,20 52:11 52:16 58:10 63:2 64:8 82:2 83:9 97:15 99:17 115:24 117:21 118:7,8 120:3 131:1,19 132:7 136:14 137:3 216:14 250:11 255:14 265:11 277:18 283:16 301:11 301:14 310:23 317:7 326:25	331:18 333:2 337:13,22 339:8 340:2,5 344:12 367:13 367:14 368:4 369:20 370:6 376:14 378:16 379:25 380:19 work's 377:9 worked 82:3 91:2 96:4 128:7 167:13 175:1 219:9 270:15 295:6 296:21 314:8 380:6 working 11:6 25:20 26:11 30:24 32:2,7 36:7 44:17,22 49:4,7,17,19 49:25 50:11,11 50:12 51:1,1,6 54:9 58:2 60:23 61:9 77:24 115:25 116:8 145:3 150:6 151:1 153:7,8 165:12 168:14,15 179:4 272:4,22 308:21 315:11 320:1 362:17 362:21 367:1 377:7 378:5 388:8 419:16 427:16,19,21 429:8,25 432:3 432:18 437:14 workload 314:19 works 133:8 163:22 204:19 274:23 416:12 workshop 364:18,23	365:3,14 366:12 367:8 367:11 world 62:14 98:24 99:4 379:20 405:19 406:10 437:10 447:6 452:16 worry 452:9 worse 353:8 409:19 448:3 worth 446:23 worthy 312:4 would've 216:2 346:17 354:6 wouldn't 12:2 27:21 36:9 52:25 62:10,10 65:5 68:12 78:1 81:23 195:16 213:6 214:25 237:9 239:10 292:16 332:23 343:2 344:23 347:23 426:23 427:1 448:9,17 wrapped 330:8 wrestled 138:22 wrinkles 120:25 126:17 150:8 write 37:4 45:23 47:3 252:10 writing 50:22 56:3 72:4 182:21 322:17 323:11 324:21 330:6 341:10 341:14 343:20 362:2,6 431:1 written 17:24 37:23 40:10 76:4 87:11 wrong 47:24 59:7 117:6 272:18 310:14	wrote 29:16 45:21 60:21 250:8 252:5,12 WWIS 403:20 404:13 <hr/> X <hr/> X-kilometre 63:22 <hr/> Y <hr/> Yea 334:2 yeah 11:17 44:5 48:2 49:5 56:7 62:23 65:3 68:15 71:8,21 72:9 87:9 89:5 91:10 92:25 93:20 95:24 99:15 112:25 113:21 118:19 123:15 133:12 138:13 187:20 262:11 347:20 350:17 403:3 419:7 420:16 year 51:14 87:21 138:1 171:2 177:24 179:2 196:4 243:8 300:13 313:4 340:8 years 42:1 55:4 56:16,21 57:1 80:11,12 87:12 87:14,18 98:9 123:2 133:14 133:23 138:13 138:23 139:3 151:21,21 160:4,5 164:3 184:19 205:4,6 205:24 206:7 221:7 233:17 233:24 236:8 238:25 240:12	262:16 270:16 300:13 356:16 387:5,9,10,12 431:14 437:25 447:22 years' 446:23 yellow 79:16 80:2 Yep 228:13 231:24 235:20 393:4 yesterday 4:21 5:1 10:20,22 356:4 431:5 York 93:17 <hr/> Z <hr/> Ziegler 10:20 zone 75:1 115:14 336:5 351:25 352:20 413:8 414:25 415:12 zones 113:6 334:5 342:12 344:17 354:6 413:7 414:9 <hr/> 0 <hr/> 08:59:40 4:4 08:59:43 4:5 08:59:52 4:6 08:59:55 4:7 09:00:00 4:8 09:00:02 4:9 09:00:09 4:10 09:00:15 4:11 09:00:17 4:12 09:00:20 4:13 09:00:24 4:14 09:00:27 4:15 09:00:31 4:16 09:00:33 4:17 09:00:36 4:18 09:00:49 4:19 09:00:50 4:20 09:00:54 4:21
--	--	--	---	--

09:00:57 4:22	09:02:52 6:21	09:05:26 8:18	10:15	09:09:49 12:11
09:01:00 4:23	09:02:54 6:22	09:05:28 8:19	09:07:23 10:16	09:09:51 12:12
09:01:03 4:24	09:02:58 6:23	09:05:30 8:20	09:07:24 10:17	09:09:53 12:13
09:01:04 4:25	09:03:02 6:24	09:05:32 8:21	09:07:29 10:18	09:09:57 12:14
09:01:07 5:1	09:03:05 6:25	09:05:36 8:22	09:07:30 10:19	09:09:59 12:15
09:01:08 5:2	09:03:08 7:1	09:05:38 8:23	09:07:32 10:20	09:10:05 12:16
09:01:11 5:3	09:03:09 7:2	09:05:42 8:24	09:07:35 10:21	09:10:06 12:17
09:01:13 5:4	09:03:11 7:3	09:05:45 8:25	09:07:38 10:22	09:10:09 12:18
09:01:15 5:5	09:03:17 7:4,5	09:05:48 9:1	09:07:42 10:23	09:10:14 12:19
09:01:20 5:6	09:03:18 7:6	09:05:51 9:2	09:07:45 10:24	09:10:16 12:20
09:01:21 5:7	09:03:25 7:7	09:05:52 9:3	09:07:48 10:25	09:10:18 12:21
09:01:24 5:8	09:03:28 7:8	09:05:53 9:4	09:07:54 11:1	09:10:20 12:22
09:01:25 5:9,10	09:03:30 7:9	09:05:55 9:5	09:08:02 11:2	09:10:22 12:23
09:01:28 5:11	09:03:31 7:10	09:05:58 9:6	09:08:04 11:3	09:10:24 12:24
09:01:32 5:12	09:03:32 7:11	09:06:01 9:7	09:08:07 11:4	09:10:27 12:25
09:01:36 5:13	09:03:35 7:12	09:06:04 9:8	09:08:09 11:5	09:10:29 13:1
09:01:39 5:14	09:03:37 7:13	09:06:06 9:9	09:08:10 11:6	09:10:30 13:2
09:01:41 5:15	09:03:40 7:14	09:06:10 9:10	09:08:13 11:7	09:10:32 13:3
09:01:42 5:16	09:03:43 7:15	09:06:12 9:11	09:08:17 11:8	09:10:35 13:4
09:01:44 5:17	09:03:46 7:16	09:06:14 9:12	09:08:21 11:9	09:10:38 13:5
09:01:45 5:18	09:03:50 7:17	09:06:15 9:13	09:08:28 11:10	09:10:39 13:6
09:01:51 5:19	09:03:52 7:18	09:06:19 9:14,15	09:08:31 11:11	09:10:41 13:7
09:01:53 5:20,21	09:03:54 7:19	09:06:22 9:16	09:08:34 11:12	09:10:43 13:8
09:01:56 5:22	09:03:57 7:20	09:06:29 9:17	09:08:36 11:13	09:10:45 13:9
09:02:00 5:23	09:04:00 7:21	09:06:30 9:18	09:08:37 11:14	09:10:46 13:10
09:02:01 5:24	09:04:05 7:22	09:06:32 9:19	09:08:41 11:15	09:10:49 13:11
09:02:05 5:25	09:04:08 7:23	09:06:35 9:20	09:08:43 11:16	09:10:51 13:12
09:02:07 6:1	09:04:13 7:24	09:06:39 9:21	09:08:44 11:17	09:10:54 13:13
09:02:08 6:2	09:04:17 7:25	09:06:45 9:22	09:09:04 11:18	09:10:56 13:14
09:02:12 6:3	09:04:18 8:1	09:06:46 9:23	11:19	09:10:57 13:15
09:02:15 6:4	09:04:22 8:2	09:06:47 9:24	09:09:06 11:20	09:11:00 13:16
09:02:20 6:5	09:04:24 8:3	09:06:48 9:25	09:09:09 11:21	09:11:04 13:17
09:02:21 6:6	09:04:26 8:4	09:06:50 10:1	09:09:12 11:22	09:11:06 13:18
09:02:23 6:7	09:04:50 8:5	09:06:51 10:2	09:09:15 11:23	09:11:08 13:19
09:02:27 6:8	09:04:51 8:6	09:06:52 10:3	09:09:18 11:24	09:11:12 13:20
09:02:29 6:9	09:04:52 8:7	09:06:55 10:4	09:09:20 11:25	09:11:14 13:21
09:02:30 6:10	09:04:54 8:8	09:06:57 10:5	09:09:23 12:1	09:11:17 13:22
09:02:31 6:11	09:04:57 8:9	09:07:00 10:6	09:09:25 12:2	09:11:23 13:23
09:02:32 6:12	09:05:00 8:10	09:07:01 10:7	09:09:31 12:3	09:11:26 13:24
09:02:33 6:13	09:05:02 8:11	09:07:04 10:8	09:09:34 12:4	09:11:30 13:25
09:02:37 6:14	09:05:05 8:12	09:07:08 10:9	09:09:35 12:5	09:11:35 14:1
09:02:39 6:15,16	09:05:08 8:13	09:07:11 10:10	09:09:38 12:6	09:11:37 14:2
09:02:41 6:17	09:05:12 8:14	09:07:14 10:11	09:09:40 12:7	09:11:43 14:3
09:02:43 6:18	09:05:17 8:15	09:07:15 10:12	09:09:42 12:8	09:11:45 14:4
09:02:45 6:19	09:05:19 8:16	09:07:18 10:13	09:09:45 12:9	09:11:47 14:5
09:02:48 6:20	09:05:22 8:17	09:07:22 10:14	09:09:48 12:10	09:11:50 14:6

09:11:53 14:7	09:14:19 16:3	09:16:28 17:25	09:18:55 19:23	09:21:12 21:19
09:11:55 14:8	09:14:20 16:4	09:16:31 18:2	09:18:58 19:24	09:21:17 21:20
09:12:00 14:9	09:14:21 16:5	09:16:32 18:3,4	09:19:00 19:25	09:21:18 21:21
09:12:02 14:10	09:14:43 16:6	09:16:37 18:5	09:19:03 20:1	21:22
09:12:03 14:11	09:14:45 16:7	09:16:45 18:6	09:19:04 20:2	09:21:19 21:23
09:12:04 14:12	09:14:49 16:8	09:16:48 18:7	09:19:06 20:3	09:21:23 21:24
09:12:05 14:13	09:14:51 16:9	09:16:52 18:8	09:19:11 20:4	09:21:24 21:25
14:14	09:14:57 16:10	09:16:54 18:9	09:19:14 20:5	09:21:27 22:1
09:12:07 14:15	09:15:04 16:11	09:16:57 18:10	09:19:17 20:6	09:21:29 22:2
09:12:09 14:16	09:15:06 16:12	09:17:00 18:11	09:19:21 20:7	09:21:32 22:3
09:12:12 14:17	09:15:07 16:13	09:17:02 18:12	09:19:23 20:8	09:21:33 22:4
09:12:40 14:18	09:15:09 16:14	09:17:03 18:13	09:19:26 20:9	09:21:36 22:5,6
09:12:42 14:19	09:15:12 16:15	09:17:04 18:14	09:19:27 20:10	09:21:38 22:7
09:12:48 14:20	09:15:15 16:16	09:17:06 18:15	20:11	09:21:41 22:8
09:12:54 14:21	09:15:17 16:17	18:16	09:19:32 20:12	09:21:46 22:9
09:12:57 14:22	09:15:19 16:18	09:17:08 18:17	09:19:34 20:13	09:21:48 22:10
09:13:01 14:23	16:19	09:17:12 18:18	09:19:37 20:14	09:21:50 22:11
09:13:06 14:24	09:15:21 16:20	09:17:14 18:19	09:19:44 20:15	09:21:53 22:12
09:13:08 14:25	09:15:22 16:21	09:17:17 18:20	09:19:46 20:16	09:21:54 22:13
15:1	09:15:23 16:22	09:17:19 18:21	09:19:50 20:17	09:21:56 22:14
09:13:10 15:2	09:15:24 16:23	09:17:24 18:22	09:19:56 20:18	09:21:58 22:15
09:13:12 15:3	09:15:26 16:24	09:17:34 18:23	09:20:00 20:19	22:16
09:13:15 15:4	09:15:27 16:25	09:17:44 18:24	09:20:06 20:20	09:21:59 22:17
09:13:16 15:5	09:15:29 17:1	09:17:46 18:25	09:20:08 20:21	09:22:00 22:18
09:13:18 15:6	09:15:31 17:2	09:17:48 19:1	09:20:16 20:22	09:22:01 22:19
09:13:20 15:7	09:15:32 17:3	09:17:50 19:2	09:20:20 20:23	09:22:03 22:20
09:13:27 15:8	09:15:34 17:4	09:17:54 19:3	09:20:25 20:24	09:22:05 22:21
09:13:32 15:9	09:15:35 17:5	09:17:56 19:4	09:20:26 20:25	09:22:07 22:22
09:13:36 15:10	09:15:36 17:6	09:18:01 19:5	09:20:39 21:1	09:22:09 22:23
09:13:38 15:11	09:15:38 17:7	09:18:02 19:6	09:20:40 21:2	09:22:10 22:24
09:13:41 15:12	09:15:39 17:8	09:18:04 19:7	09:20:41 21:3	09:22:12 22:25
09:13:44 15:13	09:15:42 17:9	09:18:06 19:8	09:20:43 21:4	09:22:13 23:1
09:13:47 15:14	09:15:44 17:10	09:18:08 19:9	09:20:45 21:5	09:22:15 23:2
09:13:48 15:15	17:11	09:18:10 19:10	09:20:48 21:6	09:22:17 23:3
09:13:52 15:16	09:15:45 17:12	09:18:14 19:11	09:20:52 21:7	09:22:18 23:4
15:17	09:15:48 17:13	09:18:15 19:12	09:20:56 21:8	09:22:20 23:5
09:13:57 15:18	09:15:50 17:14	09:18:20 19:13	09:20:57 21:9	09:22:22 23:6
09:14:00 15:19	17:15,16	09:18:25 19:14	09:20:59 21:10	09:22:23 23:7
09:14:03 15:20	09:15:51 17:17	09:18:29 19:15	09:21:00 21:11	09:22:24 23:8
09:14:06 15:21	09:15:52 17:18	09:18:32 19:16	09:21:02 21:12	09:22:26 23:9
09:14:08 15:22	09:15:58 17:19	09:18:35 19:17	09:21:04 21:13	09:22:27 23:10
09:14:10 15:23	09:16:03 17:20	09:18:37 19:18	09:21:05 21:14	09:22:28 23:11
09:14:13 15:24	09:16:17 17:21	09:18:42 19:19	09:21:06 21:15	23:12
09:14:14 15:25	09:16:20 17:22	09:18:45 19:20	21:16	09:22:29 23:13
09:14:15 16:1	09:16:22 17:23	09:18:49 19:21	09:21:07 21:17	09:22:30 23:14
09:14:16 16:2	09:16:26 17:24	09:18:52 19:22	09:21:08 21:18	09:22:32 23:15

09:22:37 23:16	09:24:42 25:12	09:26:36 27:9	09:28:45 29:5	09:31:00 31:2
09:22:40 23:17	09:24:44 25:13	09:26:38 27:10	09:28:49 29:6,7	09:31:01 31:3
09:22:42 23:18	09:24:45 25:14	09:26:40 27:11	09:28:52 29:8	09:31:04 31:4,5
09:22:45 23:19	09:24:51 25:15	09:26:45 27:12	09:28:55 29:9	09:31:07 31:6
23:20	09:24:55 25:16	09:26:49 27:13	09:28:58 29:10	09:31:09 31:7
09:22:47 23:21	09:24:58 25:17	09:26:51 27:14	09:28:59 29:11	09:31:11 31:8
09:22:50 23:22	09:25:00 25:18	09:26:54 27:15	09:29:03 29:12	09:31:12 31:9
09:22:54 23:23	09:25:01 25:19	09:26:56 27:16	09:29:06 29:13	09:31:13 31:10
09:22:58 23:24	09:25:02 25:20	09:26:58 27:17	09:29:08 29:14	09:31:14 31:11
09:23:00 23:25	09:25:05 25:21	09:27:01 27:18	09:29:12 29:15	09:31:15 31:12
09:23:03 24:1	09:25:06 25:22	09:27:02 27:19	09:29:20 29:16	09:31:16 31:13
09:23:06 24:2	09:25:08 25:23	09:27:05 27:20	09:29:23 29:17	09:31:18 31:14
09:23:08 24:3	09:25:12 25:24	09:27:09 27:21	09:29:28 29:18	09:31:19 31:15
09:23:11 24:4	09:25:14 25:25	09:27:11 27:22	09:29:31 29:19	09:31:20 31:16
09:23:14 24:5	09:25:16 26:1	09:27:13 27:23	09:29:32 29:20	09:31:23 31:17
09:23:17 24:6	09:25:19 26:2	09:27:17 27:24	09:29:41 29:21	09:31:25 31:18
09:23:21 24:7	09:25:23 26:3	09:27:19 27:25	09:29:44 29:22	09:31:28 31:19
09:23:23 24:8	09:25:26 26:4,5	09:27:22 28:1	09:29:52 29:23	09:31:29 31:20
09:23:26 24:9	09:25:27 26:6	09:27:25 28:2	09:29:54 29:24	09:31:30 31:21
09:23:29 24:10	09:25:29 26:7	09:27:27 28:3	09:29:56 29:25	09:31:31 31:22
09:23:31 24:11	09:25:30 26:8	09:27:30 28:4	09:29:58 30:1	09:31:33 31:23
09:23:34 24:12	09:25:31 26:9	09:27:34 28:5	09:30:00 30:2	09:31:35 31:24
09:23:35 24:13	09:25:34 26:10	09:27:36 28:6	09:30:03 30:3	09:31:37 31:25
09:23:40 24:14	09:25:38 26:11	09:27:39 28:7	09:30:04 30:4	09:31:38 32:1
09:23:42 24:15	09:25:45 26:12	09:27:42 28:8	09:30:06 30:5	09:31:42 32:2
09:23:45 24:16	09:25:46 26:13	09:27:45 28:9	09:30:20 30:6	09:31:44 32:3
09:23:48 24:17	09:25:47 26:14	09:27:47 28:10	09:30:23 30:7	09:31:45 32:4
09:23:51 24:18	09:25:51 26:15	09:27:50 28:11	09:30:25 30:8	09:31:47 32:5
24:19	09:25:53 26:16	09:27:54 28:12	09:30:27 30:9	09:31:49 32:6
09:23:54 24:20	09:25:56 26:17	09:27:56 28:13	09:30:31 30:10	09:31:50 32:7
09:23:57 24:21	09:25:57 26:18	09:28:00 28:14	09:30:34 30:11	09:31:52 32:8
09:24:00 24:22	09:26:03 26:19	09:28:02 28:15	09:30:36 30:12	09:31:53 32:9,10
09:24:04 24:23	09:26:06 26:20	09:28:05 28:16	09:30:39 30:13	09:31:54 32:11
09:24:06 24:24	09:26:07 26:21	09:28:09 28:17	09:30:43 30:14	09:31:55 32:12
09:24:09 24:25	09:26:11 26:22	09:28:11 28:18	09:30:44 30:15	09:31:58 32:13
09:24:13 25:1	09:26:13 26:23	09:28:14 28:19	09:30:45 30:16	09:32:01 32:14
09:24:17 25:2	09:26:15 26:24	09:28:16 28:20	09:30:46 30:17	09:32:04 32:15
09:24:19 25:3	09:26:17 26:25	09:28:20 28:21	09:30:47 30:18	09:32:08 32:16
09:24:22 25:4	27:1	09:28:23 28:22	09:30:48 30:19	09:32:11 32:17
09:24:23 25:5	09:26:20 27:2	09:28:24 28:23	09:30:49 30:20	09:32:12 32:18
09:24:27 25:6	09:26:23 27:3	09:28:28 28:24	09:30:50 30:21	09:32:15 32:19
09:24:30 25:7	09:26:25 27:4	09:28:31 28:25	09:30:52 30:22	09:32:17 32:20
09:24:33 25:8	09:26:27 27:5	09:28:32 29:1	09:30:54 30:23	09:32:19 32:21
09:24:35 25:9	09:26:29 27:6	09:28:35 29:2	09:30:56 30:24	09:32:20 32:22
09:24:36 25:10	09:26:31 27:7	09:28:40 29:3	30:25	09:32:23 32:23
09:24:39 25:11	09:26:34 27:8	09:28:42 29:4	09:30:58 31:1	09:32:25 32:24

09:32:28 32:25	09:34:33 34:21	09:36:35 36:17	09:38:21 38:16	09:40:29 40:13
09:32:34 33:1	09:34:34 34:22	09:36:39 36:18	09:38:23 38:17	09:40:32 40:14
09:32:37 33:2	09:34:37 34:23	09:36:44 36:19	09:38:26 38:18	09:40:35 40:15
09:32:43 33:3	09:34:40 34:24	09:36:49 36:20	09:38:27 38:19	09:40:37 40:16
09:32:44 33:4	09:34:43 34:25	09:36:50 36:21	09:38:29 38:20	09:40:40 40:17
09:32:45 33:5	09:34:45 35:1	09:36:54 36:22	09:38:31 38:21	09:40:42 40:18
09:32:46 33:6	09:34:46 35:2	09:36:58 36:23	09:38:34 38:22	09:40:43 40:19
09:32:48 33:7	09:34:50 35:3	09:37:01 36:24	09:38:37 38:23	09:40:46 40:20
09:32:51 33:8	09:34:52 35:4	09:37:07 36:25	38:24	09:40:50 40:21
09:32:55 33:9	09:34:54 35:5	09:37:16 37:1	09:38:40 38:25	09:40:52 40:22
09:32:58 33:10	09:34:56 35:6	09:37:20 37:2,3	09:38:45 39:1	09:40:53 40:23
09:33:00 33:11	09:35:00 35:7	09:37:24 37:4	09:38:48 39:2	09:40:54 40:24
09:33:04 33:12	09:35:02 35:8	09:37:26 37:5	09:38:51 39:3	09:40:56 40:25
09:33:06 33:13	09:35:05 35:9	09:37:27 37:6	09:38:52 39:4	09:41:00 41:1
09:33:08 33:14	09:35:06 35:10	09:37:29 37:7	09:38:56 39:5	09:41:03 41:2
09:33:10 33:15	09:35:08 35:11	09:37:31 37:8	09:38:58 39:6	09:41:10 41:3
09:33:14 33:16	09:35:10 35:12	09:37:32 37:9,10	09:39:00 39:7	09:41:11 41:4
09:33:18 33:17	09:35:13 35:13	09:37:34 37:11	09:39:04 39:8	09:41:14 41:5
09:33:20 33:18	09:35:17 35:14	09:37:35 37:12	09:39:06 39:9	09:41:16 41:6
09:33:23 33:19	09:35:21 35:15	37:13	09:39:09 39:10	09:41:20 41:7
09:33:25 33:20	09:35:24 35:16	09:37:38 37:14	09:39:10 39:11	09:41:23 41:8
09:33:27 33:21	09:35:27 35:17	09:37:39 37:15	09:39:15 39:12	09:41:26 41:9
09:33:29 33:22	09:35:29 35:18	37:16	09:39:19 39:13	09:41:29 41:10
09:33:32 33:23	09:35:31 35:19	09:37:40 37:17	09:39:21 39:14	09:41:32 41:11
09:33:34 33:24	09:35:32 35:20	37:18	09:39:26 39:15	09:41:34 41:12
09:33:37 33:25	09:35:34 35:21	09:37:42 37:19	09:39:27 39:16	09:41:36 41:13
09:33:41 34:1	09:35:36 35:22	09:37:44 37:20	09:39:29 39:17	09:41:38 41:14
09:33:44 34:2	09:35:39 35:23	09:37:47 37:21	09:39:32 39:18	09:41:40 41:15
09:33:45 34:3	09:35:41 35:24	09:37:49 37:22	09:39:37 39:19	09:41:42 41:16
09:33:47 34:4	09:35:43 35:25	09:37:50 37:23	09:39:41 39:20	09:41:44 41:17
09:33:49 34:5	09:35:45 36:1	09:37:51 37:24	09:39:45 39:21	09:41:47 41:18
09:33:53 34:6	09:35:50 36:2	09:37:53 37:25	09:39:46 39:22	09:41:50 41:19
09:33:56 34:7	09:35:52 36:3	09:37:54 38:1	09:39:49 39:23	09:41:53 41:20
09:34:00 34:8	09:35:55 36:4	09:37:55 38:2	09:39:54 39:24	09:41:54 41:21
09:34:02 34:9	09:36:01 36:5	09:37:56 38:3,4	09:39:57 39:25	09:41:55 41:22
09:34:05 34:10	09:36:03 36:6	09:37:58 38:5	09:40:01 40:1	09:41:58 41:23
09:34:08 34:11	09:36:07 36:7	09:38:00 38:6	09:40:05 40:2	09:42:00 41:24
09:34:10 34:12	09:36:13 36:8	09:38:02 38:7	09:40:06 40:3	09:42:02 41:25
09:34:13 34:13	09:36:15 36:9	09:38:04 38:8	09:40:07 40:4	09:42:05 42:1
09:34:18 34:14	09:36:17 36:10	09:38:06 38:9	09:40:10 40:5,6	09:42:08 42:2
09:34:22 34:15	09:36:19 36:11	09:38:07 38:10	09:40:11 40:7	09:42:10 42:3
09:34:24 34:16	09:36:20 36:12	09:38:09 38:11	09:40:14 40:8	09:42:17 42:4
09:34:27 34:17	09:36:24 36:13	09:38:11 38:12	09:40:15 40:9	09:42:19 42:5
09:34:29 34:18	09:36:29 36:14	09:38:13 38:13	09:40:17 40:10	09:42:20 42:6
09:34:32 34:19	09:36:31 36:15	09:38:16 38:14	09:40:22 40:11	09:42:21 42:7
34:20	09:36:33 36:16	09:38:18 38:15	09:40:27 40:12	09:42:23 42:8

09:42:26 42:9	09:45:13 44:6	09:47:33 46:2	09:49:20 47:23	09:51:12 49:23
09:42:29 42:10	09:45:19 44:7	09:47:38 46:3	47:24	09:51:17 49:24
09:42:31 42:11	09:45:31 44:8	09:47:43 46:4	09:49:22 47:25	09:51:19 49:25
09:42:33 42:12	09:45:32 44:9	09:47:52 46:5	09:49:23 48:1,2	09:51:22 50:1
09:42:37 42:13	09:45:34 44:10	09:47:54 46:6	09:49:30 48:3	09:51:23 50:2
09:42:40 42:14	09:45:37 44:11	09:47:56 46:7	09:49:32 48:4	09:51:26 50:3
09:42:44 42:15	09:45:38 44:12	09:47:57 46:8	09:49:35 48:5	09:51:30 50:4
09:42:47 42:16	09:45:43 44:13	09:48:01 46:9	09:49:36 48:6	09:51:33 50:5
09:42:51 42:17	09:45:47 44:14	09:48:04 46:10	09:49:37 48:7,8	09:51:35 50:6
09:42:53 42:18	09:45:49 44:15	09:48:06 46:11	09:49:39 48:9	09:51:37 50:7
09:42:54 42:19	09:45:52 44:16	09:48:07 46:12	09:49:51 48:10	09:51:38 50:8
09:42:58 42:20	09:45:54 44:17	09:48:08 46:13	09:49:52 48:11	09:51:41 50:9
09:43:00 42:21	09:45:58 44:18	09:48:10 46:14	09:49:53 48:12	09:51:43 50:10
09:43:03 42:22	09:45:59 44:19	09:48:12 46:15	09:49:55 48:13	09:51:45 50:11
09:43:06 42:23	44:20	09:48:15 46:16	09:49:56 48:14	09:51:47 50:12
09:43:11 42:24	09:46:02 44:21	09:48:16 46:17	09:49:57 48:15	09:51:50 50:13
09:43:13 42:25	09:46:06 44:22	09:48:18 46:18	09:49:58 48:16	09:51:51 50:14
09:43:17 43:1	09:46:08 44:23	09:48:20 46:19	09:50:00 48:17	09:51:52 50:15
09:43:20 43:2	09:46:13 44:24	09:48:23 46:20	09:50:01 48:18	09:51:54 50:16
09:43:23 43:3	09:46:18 44:25	09:48:26 46:21	09:50:03 48:19	09:51:55 50:17
09:43:25 43:4	09:46:23 45:1	09:48:29 46:22	09:50:04 48:20	09:51:56 50:18
09:43:27 43:5	09:46:26 45:2	09:48:31 46:23	09:50:05 48:21	09:51:57 50:19
09:43:36 43:6	09:46:30 45:3	09:48:32 46:24	09:50:07 48:22	09:51:58 50:20
09:43:40 43:7	09:46:32 45:4	09:48:34 46:25	09:50:09 48:23	50:21
09:43:45 43:8	09:46:34 45:5	09:48:38 47:1	48:24,25 49:1	09:52:00 50:22
09:43:54 43:9	09:46:38 45:6	09:48:40 47:2	09:50:12 49:2	09:52:02 50:23
09:44:10 43:10	09:46:40 45:7	09:48:48 47:3	09:50:14 49:3	09:52:06 50:24
09:44:17 43:11	09:46:41 45:8	09:48:49 47:4	09:50:17 49:4	50:25
09:44:22 43:12	09:46:44 45:9	09:48:50 47:5	09:50:20 49:5	09:52:08 51:1
09:44:35 43:13	09:46:46 45:10	09:48:51 47:6	09:50:22 49:6	09:52:10 51:2
09:44:37 43:14	09:46:49 45:11	09:48:52 47:7	09:50:24 49:7	09:52:13 51:3
09:44:38 43:15	45:12	09:48:55 47:8	09:50:27 49:8	09:52:17 51:4
09:44:39 43:16	09:46:52 45:13	09:48:56 47:9	09:50:32 49:9	09:52:20 51:5
09:44:47 43:17	09:46:56 45:14	09:48:58 47:10	09:50:33 49:10	09:52:23 51:6
09:44:48 43:18	09:46:59 45:15	09:49:00 47:11	09:50:35 49:11	09:52:25 51:7
09:44:50 43:19	09:47:00 45:16	09:49:01 47:12	09:50:37 49:12	09:52:27 51:8
09:44:54 43:20	09:47:03 45:17	09:49:03 47:13	09:50:39 49:13	09:52:28 51:9
09:44:55 43:21	09:47:07 45:18	09:49:04 47:14	09:50:41 49:14	09:52:31 51:10
09:44:58 43:22	09:47:10 45:19	09:49:05 47:15	09:50:46 49:15	09:52:34 51:11
09:44:59 43:23	09:47:12 45:20	09:49:06 47:16	09:50:48 49:16	09:52:35 51:12
09:45:00 43:24	09:47:14 45:21	09:49:10 47:17	09:50:52 49:17	09:52:37 51:13
09:45:01 43:25	09:47:18 45:22	09:49:11 47:18	09:50:55 49:18	09:52:39 51:14
09:45:02 44:1	09:47:21 45:23	09:49:13 47:19	09:50:57 49:19	09:52:43 51:15
09:45:05 44:2	09:47:25 45:24	09:49:14 47:20	09:51:01 49:20	09:52:46 51:16
09:45:07 44:3,4	09:47:28 45:25	09:49:16 47:21	09:51:07 49:21	09:52:50 51:17
09:45:11 44:5	09:47:31 46:1	09:49:17 47:22	09:51:10 49:22	09:52:56 51:18

09:52:58 51:19	09:54:56 53:16	09:57:18 55:13	09:59:40 57:9	57:19
09:53:01 51:20	09:54:59 53:17	09:57:19 55:14	09:59:41 57:10	10:00:26 57:20
09:53:04 51:21	09:55:05 53:18	09:57:20 55:15	09:59:44 57:11	10:00:27 57:21
09:53:07 51:22	09:55:08 53:19	09:57:21 55:16	09:59:54 57:12	10:00:29 57:22
09:53:11 51:23	09:55:10 53:20	09:57:24 55:17	09:59:58 57:13	10:00:33 57:23
09:53:13 51:24	09:55:12 53:21	09:57:27 55:18		10:00:34 57:24
09:53:14 51:25	09:55:18 53:22	09:57:32 55:19	1	10:00:38 57:25
09:53:16 52:1	09:55:22 53:23	09:57:35 55:20	1 18:25 19:1,3,5	10:00:43 58:1
09:53:19 52:2	09:55:25 53:24	09:57:48 55:21	28:7 34:17,21	10:00:44 58:2
09:53:22 52:3	09:55:28 53:25	09:57:53 55:22	83:16,18,19,22	10:00:45 58:3
09:53:23 52:4,5	09:55:30 54:1	09:57:54 55:23	84:8,11,15,15	10:00:46 58:4
09:53:26 52:6	09:55:32 54:2	09:57:59 55:24	110:2 111:4	10:00:47 58:5
09:53:29 52:7	09:55:33 54:3	09:58:02 55:25	113:1 165:5	10:00:49 58:6
09:53:31 52:8	09:55:35 54:4	09:58:03 56:1	171:12 273:15	10:00:50 58:7
09:53:34 52:9	09:55:39 54:5,6	09:58:12 56:2	273:25 284:1	10:00:52 58:8
09:53:37 52:10	09:55:40 54:7	09:58:13 56:3	288:21 290:1	10:00:54 58:9
09:53:40 52:11	09:55:43 54:8	09:58:16 56:4	319:13,15	10:00:56 58:10
09:53:45 52:12	09:55:45 54:9	09:58:19 56:5	320:17 321:15	10:00:58 58:11
09:53:46 52:13	09:55:48 54:10	09:58:21 56:6	357:14 358:21	10:00:59 58:12
09:53:47 52:14	09:55:51 54:11	09:58:25 56:7	390:14 391:8	10:01:01 58:13
09:53:49 52:15	09:55:53 54:12	09:58:28 56:8	391:11,22	10:01:03 58:14
09:53:52 52:16	54:13	09:58:30 56:9	413:1 457:10	10:01:04 58:15
09:53:54 52:17	09:56:04 54:14	09:58:33 56:10	1,400 448:12	10:01:07 58:16
09:53:56 52:18	09:56:06 54:15	09:58:35 56:11	1,500 409:13	10:01:09 58:17
09:53:58 52:19	09:56:08 54:16	09:58:39 56:12	1.1 71:20	10:01:10 58:18
09:53:59 52:20	09:56:13 54:17	09:58:42 56:13	1:05 189:10	10:01:15 58:19
52:21	09:56:19 54:18	09:58:45 56:14	10 17:3 209:19	10:01:17 58:20
09:54:00 52:22	09:56:20 54:19	09:58:49 56:15	220:17 224:13	10:01:19 58:21
09:54:04 52:23	09:56:21 54:20	09:58:52 56:16	316:18 403:1,6	10:01:21 58:22
09:54:07 52:24	09:56:22 54:21	09:58:56 56:17	420:3,6 433:12	10:01:23 58:23
09:54:11 52:25	09:56:30 54:22	09:58:58 56:18	10- 197:19	10:01:24 58:24
09:54:14 53:1	09:56:31 54:23	09:59:02 56:19	10-megawatt	10:01:27 58:25
09:54:17 53:2	09:56:34 54:24	09:59:04 56:20	187:15	59:1
09:54:19 53:3	09:56:40 54:25	09:59:06 56:21	10.1 163:2	10:01:29 59:2,3
09:54:24 53:4	09:56:43 55:1	09:59:08 56:22	10.1(f) 202:11	10:01:30 59:4,5
09:54:27 53:5	09:56:46 55:2	56:23	10.1(g) 163:3,4	10:01:32 59:6
09:54:29 53:6	09:56:49 55:3	09:59:10 56:24	163:20,25	10:01:35 59:7
09:54:35 53:7	09:56:52 55:4	09:59:14 56:25	201:20,22	10:01:37 59:8
09:54:38 53:8	09:56:55 55:5	09:59:16 57:1	203:9,13 208:8	10:01:41 59:9
09:54:40 53:9	09:56:58 55:6	09:59:19 57:2	208:17 251:19	10:01:43 59:10
09:54:42 53:10	09:57:02 55:7	09:59:21 57:3	261:20,21	10:01:46 59:11
09:54:44 53:11	09:57:04 55:8	09:59:25 57:4	10:00:18 57:14	10:01:48 59:12
53:12	09:57:06 55:9	09:59:30 57:5	10:00:20 57:15	10:01:49 59:13
09:54:46 53:13	09:57:09 55:10	09:59:32 57:6	10:00:22 57:16	10:01:52 59:14
09:54:49 53:14	09:57:12 55:11	09:59:35 57:7	57:17	10:01:56 59:15
09:54:52 53:15	09:57:15 55:12	09:59:39 57:8	10:00:23 57:18	10:02:00 59:16

10:02:02 59:17	10:04:16 61:13	10:06:24 63:9	10:08:42 65:14	10:10:37 67:10
10:02:07 59:18	10:04:20 61:14	10:06:29 63:10	10:08:43 65:15	10:10:38 67:11
10:02:09 59:19	10:04:21 61:15	10:06:32 63:11	10:08:44 65:16	10:10:39 67:12
10:02:14 59:20	10:04:24 61:16	10:06:33 63:12	10:08:45 65:17	10:10:42 67:13
10:02:17 59:21	10:04:28 61:17	10:06:36 63:13	10:08:47 65:18	67:14
10:02:19 59:22	10:04:30 61:18	10:06:39 63:14	10:08:48 65:19	10:10:43 67:15
10:02:22 59:23	10:04:31 61:19	10:06:42 63:15	10:08:50 65:20	10:10:44 67:16
10:02:24 59:24	10:04:33 61:20	10:06:44 63:16	10:08:54 65:21	10:10:48 67:17
10:02:28 59:25	10:04:35 61:21	10:06:47 63:17	10:08:55 65:22	10:10:50 67:18
10:02:32 60:1	10:04:37 61:22	10:06:50 63:18	65:23	67:19
10:02:34 60:2	10:04:38 61:23	10:06:52 63:19	10:08:57 65:24	10:10:52 67:20
10:02:36 60:3	10:04:39 61:24	10:06:54 63:20	65:25	10:10:55 67:21
10:02:39 60:4	10:04:42 61:25	10:06:55 63:21	10:09:00 66:1	10:10:56 67:22
10:02:40 60:5	10:04:46 62:1	10:07:00 63:22	10:09:01 66:2	10:10:58 67:23
10:02:43 60:6	10:04:49 62:2	10:07:03 63:23	10:09:03 66:3	10:11:04 67:24
10:02:45 60:7	10:04:53 62:3	10:07:08 63:24	10:09:04 66:4	67:25
10:02:48 60:8	10:04:54 62:4	10:07:09 63:25	10:09:06 66:5	10:11:06 68:1
10:02:50 60:9	10:04:55 62:5	10:07:12 64:1	10:09:07 66:6	10:11:11 68:2
10:02:52 60:10	10:04:57 62:6	10:07:15 64:2	10:09:11 66:7	10:11:16 68:3
10:02:55 60:11	10:05:00 62:7	10:07:39 64:3,4	10:09:12 66:8	10:11:18 68:4
10:02:58 60:12	10:05:04 62:8	10:07:40 64:5,6	10:09:14 66:9	10:11:19 68:5
10:03:01 60:13	10:05:09 62:9	10:07:44 64:7	10:09:15 66:10	10:11:21 68:6
60:14	10:05:12 62:10	10:07:46 64:8	10:09:17 66:11	10:11:24 68:7
10:03:03 60:15	10:05:13 62:11	10:07:48 64:9	10:09:18 66:12	10:11:28 68:8,9
10:03:05 60:16	10:05:17 62:12	10:07:49 64:10	66:13	68:10
10:03:13 60:17	10:05:19 62:13	10:07:52 64:11	10:09:19 66:14	10:11:39 68:11
10:03:16 60:18	10:05:22 62:14	10:07:54 64:12	10:09:23 66:15	68:12
10:03:18 60:19	10:05:27 62:15	64:13,14,15,16	10:09:25 66:16	10:11:40 68:13
10:03:25 60:20	10:05:29 62:16	64:17,18,19,20	10:09:27 66:17	10:11:44 68:14
10:03:29 60:21	10:05:35 62:17	64:21	10:09:31 66:18	68:15
10:03:31 60:22	10:05:36 62:18	10:07:56 64:22	10:09:35 66:19	10:11:54 68:16
10:03:32 60:23	10:05:38 62:19	10:08:09 64:23	10:09:37 66:20	10:11:55 68:17
10:03:35 60:24	10:05:40 62:20	64:24	10:09:42 66:21	10:11:58 68:18
10:03:37 60:25	10:05:46 62:21	10:08:10 64:25	10:09:44 66:22	10:12:01 68:19
10:03:40 61:1	10:05:48 62:22	10:08:11 65:1	10:09:47 66:23	10:12:04 68:20
10:03:43 61:2	10:05:50 62:23	10:08:13 65:2	10:09:48 66:24	10:12:12 68:21
10:03:45 61:3	10:05:51 62:24	10:08:17 65:3	10:09:53 66:25	10:12:13 68:22
10:03:48 61:4	10:05:52 62:25	10:08:18 65:4	10:09:57 67:1	10:12:15 68:23
10:03:52 61:5	10:05:53 63:1	10:08:20 65:5	10:10:00 67:2	10:12:17 68:24
10:03:56 61:6	10:05:56 63:2	10:08:22 65:6	10:10:04 67:3	10:12:20 68:25
10:03:59 61:7	10:06:00 63:3	10:08:23 65:7,8	10:10:07 67:4	10:12:21 69:1
10:04:01 61:8	10:06:03 63:4	10:08:25 65:9	10:10:10 67:5	10:12:23 69:2
10:04:03 61:9	10:06:14 63:5	10:08:27 65:10	10:10:12 67:6	10:12:25 69:3
10:04:08 61:10	10:06:16 63:6	10:08:28 65:11	10:10:17 67:7	10:12:28 69:4,5
10:04:12 61:11	10:06:18 63:7	10:08:31 65:12	10:10:23 67:8	10:12:31 69:6
10:04:13 61:12	10:06:21 63:8	10:08:33 65:13	10:10:30 67:9	10:12:35 69:7

10:12:37 69:8	10:14:49 71:4	10:17:49 73:1	10:20:27 74:22	10:22:51 76:19
10:12:43 69:9	10:14:52 71:5	10:17:51 73:2	10:20:29 74:23	10:22:54 76:20
10:12:44 69:10	10:14:56 71:6	10:17:52 73:3	10:20:30 74:24	10:22:58 76:21
10:12:45 69:11	10:15:08 71:7	10:17:55 73:4	10:20:33 74:25	10:23:02 76:22
10:12:46 69:12	10:15:10 71:8	10:17:57 73:5	10:20:35 75:1	10:23:08 76:23
10:12:49 69:13	10:15:12 71:9	10:17:58 73:6	10:20:38 75:2	76:24
10:12:51 69:14	10:15:26 71:10	10:18:00 73:7	10:20:41 75:3	10:23:09 76:25
10:12:55 69:15	10:15:27 71:11	10:18:03 73:8	10:20:46 75:4	10:23:12 77:1
10:12:58 69:16	10:15:37 71:12	10:18:09 73:9	10:20:47 75:5	10:23:14 77:2
10:13:00 69:17	10:15:41 71:13	10:18:28 73:10	10:20:51 75:6	10:23:17 77:3
10:13:03 69:18	10:15:46 71:14	10:18:34 73:11	10:20:54 75:7	10:23:21 77:4
10:13:06 69:19	71:15	10:18:36 73:12	10:21:01 75:8	10:23:22 77:5
10:13:09 69:20	10:15:57 71:16	10:18:39 73:13	10:21:03 75:9	10:23:27 77:6,7
10:13:11 69:21	10:15:58 71:17	10:18:41 73:14	10:21:07 75:10	10:23:29 77:8
10:13:13 69:22	10:16:02 71:18	10:18:46 73:15	10:21:08 75:11	10:23:31 77:9
10:13:18 69:23	71:19	10:18:49 73:16	10:21:11 75:12	10:23:32 77:10
69:24	10:16:04 71:20	10:18:56 73:17	10:21:14 75:13	10:23:33 77:11
10:13:26 69:25	10:16:17 71:21	10:18:58 73:18	10:21:17 75:14	10:23:35 77:12
10:13:31 70:1	71:22	10:19:06 73:19	10:21:20 75:15	10:23:38 77:13
10:13:33 70:2	10:16:19 71:23	73:20	10:21:27 75:16	10:23:41 77:14
10:13:34 70:3	10:16:24 71:24	10:19:09 73:21	10:21:28 75:17	10:23:43 77:15
10:13:37 70:4	10:16:27 71:25	10:19:11 73:22	10:21:30 75:18	10:23:46 77:16
10:13:39 70:5	10:16:28 72:1	10:19:15 73:23	10:21:33 75:19	10:23:48 77:17
10:13:53 70:6	10:16:31 72:2	10:19:18 73:24	10:21:37 75:20	10:23:51 77:18
10:13:54 70:7	10:16:33 72:3	10:19:21 73:25	10:21:40 75:21	10:23:55 77:19
10:13:55 70:8	10:16:35 72:4	10:19:22 74:1	10:21:44 75:22	10:23:57 77:20
10:13:59 70:9	10:16:39 72:5	10:19:24 74:2	10:21:46 75:23	10:24:00 77:21
10:14:03 70:10	10:16:42 72:6	10:19:28 74:3	10:21:50 75:24	10:24:02 77:22
10:14:08 70:11	10:16:44 72:7	10:19:35 74:4	10:21:52 75:25	77:23
10:14:10 70:12	10:16:47 72:8,9	10:19:37 74:5	10:21:58 76:1	10:24:04 77:24
10:14:12 70:13	10:16:55 72:10	10:19:39 74:6	10:22:01 76:2	10:24:09 77:25
10:14:21 70:14	10:16:58 72:11	10:19:41 74:7	10:22:05 76:3	10:24:11 78:1
10:14:22 70:15	10:17:03 72:12	10:19:42 74:8	10:22:07 76:4	10:24:12 78:2
10:14:23 70:16	10:17:07 72:13	10:19:45 74:9	10:22:12 76:5	10:24:15 78:3
10:14:24 70:17	10:17:12 72:14	10:19:49 74:10	10:22:15 76:6	10:24:17 78:4
10:14:26 70:18	10:17:16 72:15	10:19:51 74:11	10:22:20 76:7	10:24:19 78:5,6
10:14:28 70:19	10:17:25 72:16	10:19:52 74:12	10:22:25 76:8	10:24:21 78:7
10:14:29 70:20	10:17:27 72:17	74:13	10:22:29 76:9,10	10:24:24 78:8
10:14:34 70:21	10:17:34 72:18	10:19:59 74:14	10:22:33 76:11	10:24:27 78:9
10:14:36 70:22	10:17:35 72:19	74:15	10:22:36 76:12	10:24:30 78:10
10:14:38 70:23	10:17:37 72:20	10:20:06 74:16	10:22:40 76:13	10:24:34 78:11
10:14:40 70:24	10:17:41 72:21	10:20:08 74:17	10:22:43 76:14	10:24:39 78:12
10:14:42 70:25	10:17:42 72:22	10:20:12 74:18	10:22:44 76:15	10:24:42 78:13
71:1	10:17:45 72:23	10:20:19 74:19	10:22:46 76:16	10:24:45 78:14
10:14:43 71:2	10:17:47 72:24	10:20:21 74:20	10:22:48 76:17	78:15
10:14:47 71:3	72:25	10:20:25 74:21	76:18	10:24:48 78:16

10:24:56 78:17 78:18	10:27:27 80:16	10:29:44 82:12	10:31:39 84:10	10:33:59 86:7
10:25:00 78:19	10:27:30 80:17	10:29:47 82:13	10:31:46 84:11	10:34:00 86:8
10:25:15 78:20	10:27:32 80:18	10:29:48 82:14	10:31:51 84:12	10:34:03 86:9,10
10:25:17 78:21	10:27:33 80:19	10:29:52 82:15	10:31:55 84:13	10:34:06 86:11
10:25:18 78:22 78:23,24	10:27:36 80:20	10:29:54 82:16	84:14	10:34:12 86:12
10:25:20 78:25	10:27:40 80:21	10:29:57 82:17	10:31:57 84:15	10:34:13 86:13
10:25:21 79:1	10:27:42 80:22	10:29:59 82:18	10:32:00 84:16	10:34:15 86:14
10:25:26 79:2	10:27:45 80:23	10:30:00 82:19	84:17	10:34:18 86:15
10:25:28 79:3,4	10:27:47 80:24	10:30:03 82:20	10:32:02 84:18	10:34:22 86:16
10:25:45 79:5,6	10:27:49 80:25	10:30:04 82:21	10:32:03 84:19	10:34:25 86:17
10:25:47 79:7	10:27:52 81:1	10:30:06 82:22	10:32:04 84:20	10:34:28 86:18
10:25:48 79:8	10:27:56 81:2	10:30:07 82:23	10:32:06 84:21	10:34:31 86:19
10:25:49 79:9	10:27:59 81:3	10:30:09 82:24	10:32:08 84:22	10:34:32 86:20
10:25:51 79:10 79:11	10:28:01 81:4	10:30:12 82:25	10:32:09 84:23	10:34:34 86:21
10:25:52 79:12	10:28:04 81:5	10:30:15 83:1	10:32:16 84:24	10:34:36 86:22
10:25:55 79:13	10:28:08 81:6	10:30:21 83:2	84:25	10:34:39 86:23
10:25:56 79:14	10:28:10 81:7	10:30:24 83:3	10:32:43 85:1	10:34:41 86:24
10:26:11 79:15	10:28:11 81:8	10:30:25 83:4	10:32:44 85:2,3	10:34:42 86:25
10:26:12 79:16	10:28:13 81:9	10:30:28 83:5	10:32:45 85:4	10:34:45 87:1,2
10:26:14 79:17 79:18	10:28:15 81:10	10:30:30 83:6,7	10:32:46 85:5	10:34:47 87:3
10:26:16 79:19	10:28:18 81:11 81:12	10:30:31 83:8	10:32:51 85:6	10:34:51 87:4
10:26:19 79:20	10:28:23 81:13	10:30:34 83:9	10:32:54 85:7	10:34:55 87:5
10:26:24 79:21	10:28:27 81:14	10:30:37 83:10	10:32:56 85:8	10:34:56 87:6
10:26:27 79:22	10:28:30 81:15	10:30:39 83:11 83:12	10:33:01 85:9	10:35:01 87:7
10:26:31 79:23	10:28:32 81:16	10:30:52 83:14	10:33:04 85:10	10:35:03 87:8
10:26:33 79:24	10:28:38 81:17	10:30:57 83:15	10:33:06 85:11	10:35:04 87:9
10:26:38 79:25	10:28:42 81:18	10:30:58 83:16	10:33:09 85:12	10:35:09 87:10
10:26:40 80:1	10:28:44 81:19	10:31:01 83:17	10:33:13 85:13	10:35:14 87:11
10:26:42 80:2	10:28:46 81:20	10:31:06 83:18	10:33:16 85:14	10:35:16 87:12
10:26:46 80:3	10:28:49 81:21	10:31:07 83:19	10:33:21 85:15	10:35:18 87:13
10:26:50 80:4	10:28:51 81:22	10:31:10 83:20	10:33:24 85:16	10:35:20 87:14
10:26:53 80:5	10:28:55 81:23	10:31:12 83:21	10:33:28 85:17	10:35:22 87:15
10:26:55 80:6	10:28:57 81:24	10:31:14 83:22	10:33:30 85:18	10:35:25 87:16
10:26:57 80:7	10:29:00 81:25	10:31:16 83:23	10:33:32 85:19	10:35:28 87:17
10:26:59 80:8	10:29:02 82:1	10:31:17 83:24	10:33:35 85:20	10:35:29 87:18
10:27:04 80:9	10:29:03 82:2	10:31:19 83:25	85:21	10:35:36 87:19
10:27:08 80:10	10:29:06 82:3	10:31:20 84:1	10:33:37 85:22	10:35:39 87:20
10:27:13 80:11	10:29:09 82:4	10:31:22 84:2	10:33:39 85:23	10:35:40 87:21
10:27:17 80:12	10:29:15 82:5	10:31:23 84:3	10:33:41 85:24	10:35:41 87:22
10:27:20 80:13	10:29:20 82:6	10:31:26 84:4	10:33:42 85:25	10:35:42 87:23
10:27:23 80:14	10:29:23 82:7	10:31:27 84:5	10:33:44 86:1	10:35:43 87:24
10:27:24 80:15	10:29:25 82:8	10:31:28 84:6	10:33:46 86:2	10:35:45 87:25
	10:29:28 82:9	10:31:30 84:7	10:33:48 86:3	10:35:48 88:1
	10:29:31 82:10	10:31:35 84:8	10:33:50 86:4	10:35:51 88:2
	10:29:32 82:11	10:31:38 84:9	10:33:52 86:5	10:35:54 88:3
			10:33:55 86:6	10:35:55 88:4

10:35:56 88:5	10:38:19 90:1	10:40:37 91:24	10:42:45 93:21	10:44:40 95:17
10:36:04 88:6	10:38:22 90:2	10:40:40 91:25	10:42:48 93:22	10:44:45 95:18
10:36:06 88:7	10:38:26 90:3	10:40:44 92:1	10:42:51 93:23	10:44:48 95:19
10:36:08 88:8	10:38:27 90:4,5	10:40:49 92:2	10:42:54 93:24	10:44:55 95:20
10:36:13 88:9	10:38:28 90:6	10:40:50 92:3	10:42:58 93:25	95:21,22,23
10:36:15 88:10	10:38:32 90:7,8	10:40:54 92:4	10:42:59 94:1	10:44:56 95:24
10:36:19 88:11	10:38:33 90:9	10:40:58 92:5	10:43:02 94:2	10:44:58 95:25
10:36:20 88:12	10:38:38 90:10	10:41:01 92:6	10:43:03 94:3	10:45:05 96:1
10:36:24 88:13	10:38:41 90:11	10:41:04 92:7	10:43:07 94:4	10:45:07 96:2
10:36:29 88:14	10:38:43 90:12	10:41:07 92:8	10:43:08 94:5	10:45:08 96:3
10:36:34 88:15	10:38:45 90:13	10:41:12 92:9	10:43:11 94:6	10:45:09 96:4
10:36:37 88:16	10:38:50 90:14	10:41:15 92:10	10:43:14 94:7	10:45:12 96:5
10:36:43 88:17	10:38:53 90:15	10:41:19 92:11	10:43:18 94:8	10:45:15 96:6
10:36:45 88:18	10:38:55 90:16	10:41:21 92:12	10:43:19 94:9	10:45:20 96:7
10:36:47 88:19	10:38:59 90:17	10:41:27 92:13	10:43:22 94:10	10:45:23 96:8
10:36:49 88:20	10:39:02 90:18	10:41:32 92:14	10:43:27 94:11	10:45:25 96:9
10:36:50 88:21	10:39:07 90:19	10:41:35 92:15	10:43:29 94:12	10:45:27 96:10
10:36:51 88:22	10:39:09 90:20	10:41:40 92:16	10:43:31 94:13	10:45:28 96:11
10:36:55 88:23	10:39:11 90:21	10:41:43 92:17	10:43:34 94:14	10:45:31 96:12
10:36:59 88:24	10:39:19 90:22	92:18	10:43:40 94:15	10:47:09 96:13
10:37:02 88:25	10:39:21 90:23	10:41:45 92:19	10:43:43 94:16	10:47:11 96:14
10:37:03 89:1	10:39:23 90:24	10:41:46 92:20	10:43:45 94:17	10:47:12 96:15
10:37:07 89:2	10:39:24 90:25	10:41:50 92:21	10:43:49 94:18	10:47:13 96:16
10:37:10 89:3	10:39:26 91:1	92:22	10:43:50 94:19	10:47:14 96:17
10:37:15 89:4	10:39:31 91:2	10:41:52 92:23	94:20	10:47:16 96:18
10:37:18 89:5	10:39:34 91:3	10:41:56 92:24	10:43:51 94:21	10:47:18 96:19
10:37:20 89:6	10:39:37 91:4	10:41:58 92:25	10:43:55 94:22	10:47:21 96:20
10:37:23 89:7	10:39:41 91:5	10:42:00 93:1,2	10:43:56 94:23	10:47:24 96:21
10:37:25 89:8	10:39:44 91:6	10:42:02 93:3	94:24	10:47:27 96:22
10:37:28 89:9	10:39:48 91:7	10:42:04 93:4	10:43:58 94:25	10:47:31 96:23
10:37:30 89:10	10:39:52 91:8	10:42:08 93:5	10:44:00 95:1	10:47:34 96:24
10:37:32 89:11	10:39:56 91:9	10:42:11 93:6	10:44:02 95:2	10:47:35 96:25
10:37:35 89:12	10:39:57 91:10	10:42:15 93:7	10:44:05 95:3	10:47:37 97:1
10:37:38 89:13	10:40:00 91:11	10:42:18 93:8	10:44:07 95:4	10:47:43 97:2
10:37:43 89:14	10:40:03 91:12	10:42:21 93:9	10:44:09 95:5	10:47:47 97:3
10:37:47 89:15	10:40:06 91:13	10:42:22 93:10	10:44:13 95:6	10:47:50 97:4
10:37:51 89:16	91:14	10:42:24 93:11	10:44:16 95:7	10:47:54 97:5
10:37:53 89:17	10:40:08 91:15	10:42:26 93:12	10:44:18 95:8	10:47:58 97:6
89:18	10:40:09 91:16	10:42:28 93:13	10:44:21 95:9	10:48:07 97:7
10:37:54 89:19	10:40:11 91:17	10:42:30 93:14	10:44:24 95:10	10:48:14 97:8
10:37:58 89:20	10:40:13 91:18	10:42:32 93:15	10:44:28 95:11	10:48:17 97:9
10:38:03 89:21	10:40:18 91:19	10:42:36 93:16	10:44:30 95:12	10:48:19 97:10
10:38:06 89:22	10:40:23 91:20	10:42:38 93:17	10:44:33 95:13	10:48:23 97:11
10:38:08 89:23	10:40:26 91:21	10:42:42 93:18	10:44:34 95:14	10:48:27 97:12
10:38:12 89:24	10:40:29 91:22	10:42:43 93:19	10:44:37 95:15	10:48:32 97:13
10:38:14 89:25	10:40:32 91:23	10:42:44 93:20	10:44:38 95:16	10:48:34 97:14

10:48:39 97:15	10:50:58 99:12	11:09:50 100:15	11:12:35 102:12	11:14:11 104:10
10:48:42 97:16	10:51:03 99:13	11:09:51 100:16	11:12:40 102:13	11:14:12 104:11
10:48:45 97:17	10:51:05 99:14	11:10:05 100:17	11:12:41 102:14	11:14:15 104:12
10:48:48 97:18	10:51:06 99:15	11:10:08 100:18	11:12:43 102:15	11:14:16 104:13
10:48:53 97:19	10:51:08 99:16	11:10:12 100:19	11:12:45 102:16	11:14:18 104:14
10:48:58 97:20	10:51:11 99:17	11:10:13 100:20	11:12:46 102:17	11:14:19 104:15
10:48:59 97:21	10:51:13 99:18	11:10:14 100:21	11:12:47 102:18	11:14:21 104:16
10:49:02 97:22	10:51:16 99:19	11:10:17 100:22	11:12:48 102:19	11:14:33 104:17
10:49:04 97:23	10:51:18 99:20	11:10:18 100:23	11:12:52 102:20	11:14:42 104:18
10:49:06 97:24	10:51:21 99:21	11:10:20 100:24	11:12:59 102:21	11:14:49 104:19
10:49:09 97:25	99:22	11:10:26 100:25	11:13:00 102:22	11:14:51 104:20
10:49:11 98:1	10:51:23 99:23	11:10:28 101:1	11:13:02 102:23	11:14:54 104:21
10:49:17 98:2	10:51:27 99:24	11:10:29 101:2	11:13:03 102:24	11:14:56 104:22
10:49:20 98:3	10:51:30 99:25	11:10:30 101:3	11:13:04 102:25	11:15:00 104:23
10:49:25 98:4	10:51:32 100:1	11:10:36 101:4	11:13:06 103:1	11:15:01 104:24
10:49:28 98:5	10:51:35 100:2	11:10:48 101:5	11:13:09 103:2	11:15:04 104:25
10:49:30 98:6	10:51:38 100:3	11:10:51 101:6	11:13:10 103:3	11:15:07 105:1
10:49:31 98:7	10:51:40 100:4	11:10:52 101:7	11:13:12 103:4,5	11:15:10 105:2
10:49:35 98:8	10:51:41 100:5	11:10:53 101:8	11:13:13 103:6	11:15:11 105:3
10:49:41 98:9	10:51:44 100:6	11:10:55 101:9	11:13:14 103:7	11:15:12 105:4
10:49:43 98:10	10:51:49 100:7	11:10:58 101:10	11:13:15 103:8	11:15:17 105:5
10:49:46 98:11	10:51:52 100:8	11:11:02 101:11	11:13:19 103:9	11:15:22 105:6
10:49:49 98:12	10:51:53 100:9	11:11:05 101:12	11:13:20 103:10	11:15:24 105:7
10:49:50 98:13	10:51:57 100:10	11:11:09 101:13	11:13:21 103:11	11:15:25 105:8
10:49:54 98:14	10:52 100:13	11:11:13 101:14	11:13:23 103:12	11:15:28 105:9
10:49:57 98:15	10:52:00 100:11	11:11:14 101:15	11:13:25 103:13	11:15:29 105:10
10:49:59 98:16	10:52:03 100:12	11:11:17 101:16	11:13:27 103:14	11:15:30 105:11
10:50:02 98:17	10:52:08 100:13	11:11:19 101:17	11:13:29 103:15	11:15:31 105:12
10:50:04 98:18	100:14	11:11:22 101:18	103:16	11:15:33 105:13
10:50:07 98:19	100 3:5 312:21	11:11:25 101:19	11:13:31 103:17	11:15:34 105:14
10:50:09 98:20	312:22 403:22	11:11:28 101:20	11:13:32 103:18	11:15:36 105:15
10:50:12 98:21	404:15	11:11:33 101:21	11:13:33 103:19	11:15:38 105:16
10:50:14 98:22	100-megawatt	11:11:34 101:22	11:13:35 103:20	11:15:41 105:17
10:50:16 98:23	187:16	11:11:44 101:23	11:13:37 103:21	11:15:42 105:18
10:50:19 98:24	10th 36:24	11:11:45 101:24	11:13:39 103:22	11:15:44 105:19
10:50:23 98:25	11 10:13 14:12	11:11:49 101:25	11:13:41 103:23	11:15:45 105:20
10:50:27 99:1	14:15,16 36:25	11:11:52 102:1	103:24	11:15:48 105:21
10:50:30 99:2	78:12 79:6,9	11:11:55 102:2	11:13:42 103:25	11:15:50 105:22
10:50:33 99:3,4	79:12 101:22	11:12:02 102:3	11:13:46 104:1	105:23
10:50:35 99:5	209:10 214:10	11:12:05 102:4	11:13:48 104:2	11:15:52 105:24
10:50:38 99:6	224:6,13	11:12:13 102:5,6	11:13:49 104:3	11:15:54 105:25
10:50:40 99:7	239:14 289:19	11:12:15 102:7	11:13:52 104:4	11:15:55 106:1
10:50:43 99:8	289:19 327:8	11:12:18 102:8	11:13:56 104:5	11:15:57 106:2
10:50:48 99:9	405:1 425:17	11:12:30 102:9	11:14:03 104:6	11:15:59 106:3
10:50:52 99:10	11:05 100:7	11:12:31 102:10	11:14:08 104:7,8	11:16:02 106:4
10:50:56 99:11	11:09 100:14	11:12:33 102:11	11:14:09 104:9	11:16:04 106:5

11:16:07 106:6	11:17:50 108:2	11:21:06 109:23	11:23:18 111:20	11:25:32 113:17
11:16:09 106:7	11:17:53 108:3	11:21:10 109:24	11:23:20 111:21	11:25:39 113:18
11:16:11 106:8	11:18:02 108:4	11:21:12 109:25	11:23:23 111:22	11:25:42 113:19
11:16:12 106:9	11:18:06 108:5	11:21:16 110:1	11:23:26 111:23	11:25:46 113:20
11:16:14 106:10	11:18:24 108:6	11:21:18 110:2	11:23:31 111:24	11:25:48 113:21
11:16:15 106:11	11:18:25 108:7	11:21:20 110:3	11:23:35 111:25	11:25:50 113:22
11:16:16 106:12	11:18:30 108:8	11:21:23 110:4	11:23:36 112:1	11:25:56 113:23
11:16:18 106:13	11:18:33 108:9	11:21:28 110:5	11:23:38 112:2	11:25:58 113:24
11:16:21 106:14	11:18:37 108:10	11:21:30 110:6	11:23:41 112:3,4	11:26:01 113:25
11:16:23 106:15	11:18:39 108:11	11:21:34 110:7	11:23:43 112:5	11:26:03 114:1
11:16:26 106:16	11:18:42 108:12	11:21:40 110:8	11:23:47 112:6	11:26:06 114:2
11:16:29 106:17	11:18:45 108:13	11:21:45 110:9	11:23:48 112:7	11:26:12 114:3
11:16:32 106:18	108:14	11:21:46 110:10	11:23:53 112:8	11:26:14 114:4
11:16:36 106:19	11:18:46 108:15	11:21:47 110:11	11:23:55 112:9	11:26:18 114:5
11:16:37 106:20	11:18:50 108:16	11:21:50 110:12	11:23:57 112:10	11:26:23 114:6
11:16:38 106:21	11:18:52 108:17	11:21:54 110:13	11:23:59 112:11	11:26:27 114:7
11:16:40 106:22	11:18:56 108:18	11:21:56 110:14	112:12	11:26:28 114:8
11:16:41 106:23	11:19:03 108:19	11:22:01 110:15	11:24:01 112:13	11:26:32 114:9
11:16:44 106:24	11:19:05 108:20	11:22:03 110:16	11:24:07 112:14	11:26:33 114:10
11:16:46 106:25	11:19:08 108:21	11:22:07 110:17	11:24:08 112:15	11:26:36 114:11
11:16:49 107:1	11:19:10 108:22	11:22:09 110:18	11:24:10 112:16	114:12
11:16:51 107:2	11:19:13 108:23	11:22:10 110:19	11:24:12 112:17	11:26:37 114:13
11:16:52 107:3	11:19:22 108:24	11:22:12 110:20	11:24:13 112:18	11:26:38 114:14
11:16:54 107:4	11:19:27 108:25	11:22:14 110:21	11:24:15 112:19	11:26:42 114:15
11:16:56 107:5	11:19:28 109:1	11:22:15 110:22	11:24:20 112:20	114:16
11:16:57 107:6	11:19:31 109:2	11:22:18 110:23	11:24:23 112:21	11:26:44 114:17
11:17:02 107:7	11:19:37 109:3	11:22:19 110:24	11:24:26 112:22	11:26:45 114:18
11:17:03 107:8	11:19:39 109:4	11:22:22 110:25	11:24:27 112:23	11:26:47 114:19
11:17:06 107:9	11:19:42 109:5	11:22:23 111:1	11:24:32 112:24	11:26:53 114:20
11:17:11 107:10	11:19:43 109:6	11:22:25 111:2	11:24:33 112:25	11:26:54 114:21
11:17:16 107:11	11:19:54 109:7	11:22:32 111:3	11:24:38 113:1	11:26:55 114:22
11:17:17 107:12	11:19:57 109:8	11:22:34 111:4	11:24:41 113:2	11:26:57 114:23
11:17:21 107:13	11:20:02 109:9	11:22:39 111:5	11:24:44 113:3	11:26:59 114:24
11:17:23 107:14	11:20:06 109:10	11:22:41 111:6	11:24:47 113:4	11:27:01 114:25
11:17:26 107:15	11:20:09 109:11	11:22:44 111:7,8	11:24:50 113:5	11:27:02 115:1
11:17:27 107:16	11:20:14 109:12	11:22:48 111:9	11:24:53 113:6	11:27:06 115:2
11:17:30 107:17	11:20:17 109:13	11:22:49 111:10	11:24:58 113:7	11:27:08 115:3
11:17:31 107:18	11:20:22 109:14	11:22:52 111:11	11:25:01 113:8	11:27:12 115:4
11:17:35 107:19	11:20:27 109:15	11:22:54 111:12	11:25:04 113:9	11:27:14 115:5
11:17:38 107:20	11:20:32 109:16	11:22:57 111:13	11:25:09 113:10	11:27:17 115:6
11:17:40 107:21	11:20:49 109:17	11:22:59 111:14	11:25:11 113:11	11:27:21 115:7
11:17:42 107:22	11:20:51 109:18	11:23:03 111:15	11:25:14 113:12	11:27:24 115:8
11:17:44 107:23	11:20:54 109:19	11:23:07 111:16	11:25:18 113:13	11:27:25 115:9
11:17:45 107:24	11:20:58 109:20	11:23:10 111:17	11:25:19 113:14	11:27:26 115:10
11:17:46 107:25	11:21:00 109:21	11:23:12 111:18	11:25:24 113:15	11:27:32 115:11
11:17:48 108:1	11:21:02 109:22	11:23:16 111:19	11:25:26 113:16	11:27:35 115:12

11:27:41 115:13	11:29:55 117:10	11:32:04 119:6	11:34:45 121:2	11:37:01 122:23
11:27:43 115:14	11:29:59 117:11	11:32:09 119:7	11:34:46 121:3	11:37:02 122:24
11:27:47 115:15	11:30:01 117:12	11:32:10 119:8	11:34:48 121:4	11:37:04 122:25
11:27:51 115:16	11:30:04 117:13	11:32:15 119:9	11:34:52 121:5	11:37:06 123:1
11:27:53 115:17	11:30:06 117:14	11:32:17 119:10	11:34:53 121:6	11:37:11 123:2
11:27:56 115:18	11:30:09 117:15	11:32:24 119:11	11:34:57 121:7	11:37:13 123:3
11:27:59 115:19	11:30:16 117:16	11:32:29 119:12	11:35:02 121:8	11:37:16 123:4
11:28:00 115:20	11:30:18 117:17	11:32:36 119:13	11:35:06 121:9	11:37:20 123:5
11:28:01 115:21	11:30:19 117:18	11:32:41 119:14	11:35:07 121:10	11:37:24 123:6
11:28:05 115:22	11:30:24 117:19	11:32:46 119:15	11:35:08 121:11	11:37:27 123:7
11:28:08 115:23	11:30:28 117:20	11:32:48 119:16	11:35:12 121:12	11:37:29 123:8
11:28:12 115:24	11:30:31 117:21	11:32:50 119:17	11:35:14 121:13	11:37:31 123:9
11:28:18 115:25	11:30:34 117:22	11:32:56 119:18	11:35:17 121:14	11:37:35 123:10
11:28:25 116:1	11:30:37 117:23	11:33:00 119:19	11:35:20 121:15	11:37:36 123:11
11:28:28 116:2	11:30:42 117:24	11:33:04 119:20	11:35:21 121:16	11:37:37 123:12
11:28:32 116:3	11:30:44 117:25	11:33:09 119:21	11:35:26 121:17	11:37:38 123:13
11:28:35 116:4	11:30:47 118:1	11:33:13 119:22	11:35:33 121:18	11:37:41 123:14
11:28:38 116:5	11:30:50 118:2	11:33:16 119:23	11:35:35 121:19	11:37:43 123:15
11:28:39 116:6	11:30:52 118:3	11:33:20 119:24	11:35:38 121:20	11:37:45 123:16
11:28:41 116:7	11:30:55 118:4	11:33:23 119:25	11:35:40 121:21	11:37:48 123:17
11:28:45 116:8	11:30:57 118:5	11:33:25 120:1	11:35:45 121:22	11:37:51 123:18
11:28:48 116:9	11:30:59 118:6	11:33:27 120:2	11:35:47 121:23	11:37:54 123:19
11:28:50 116:10	11:31:02 118:7	11:33:30 120:3	11:35:50 121:24	11:37:58 123:20
11:28:52 116:11	11:31:07 118:8	11:33:32 120:4	11:35:55 121:25	11:38:02 123:21
11:28:57 116:12	11:31:10 118:9	11:33:34 120:5	11:36:00 122:1	11:38:04 123:22
11:29:00 116:13	11:31:11 118:10	11:33:37 120:6	11:36:03 122:2	11:38:06 123:23
11:29:06 116:14	11:31:14 118:11	11:33:41 120:7	11:36:06 122:3	11:38:09 123:24
11:29:08 116:15	11:31:17 118:12	11:33:44 120:8	11:36:09 122:4	11:38:16 123:25
11:29:09 116:16	11:31:19 118:13	11:33:47 120:9	11:36:12 122:5	11:38:20 124:1
11:29:10 116:17	11:31:24 118:14	11:33:49 120:10	11:36:14 122:6	11:38:27 124:2
11:29:12 116:18	11:31:25 118:15	11:33:52 120:11	11:36:20 122:7	11:38:29 124:3
11:29:15 116:19	11:31:28 118:16	11:33:54 120:12	11:36:21 122:8	11:38:33 124:4
11:29:16 116:20	11:31:30 118:17	11:33:56 120:13	11:36:22 122:9	11:38:37 124:5
11:29:18 116:21	11:31:31 118:18	11:33:58 120:14	11:36:27 122:10	11:38:41 124:6
11:29:22 116:22	11:31:33 118:19	11:34:01 120:15	11:36:31 122:11	11:38:43 124:7
11:29:25 116:23	11:31:36 118:20	11:34:04 120:16	11:36:35 122:12	11:38:44 124:8
11:29:30 116:24	11:31:39 118:21	11:34:06 120:17	11:36:36 122:13	11:38:47 124:9
11:29:34 116:25	11:31:42 118:22	11:34:11 120:18	11:36:39 122:14	11:38:50 124:10
11:29:35 117:1	11:31:44 118:23	11:34:17 120:19	11:36:43 122:15	11:38:53 124:11
11:29:37 117:2	11:31:45 118:24	11:34:21 120:20	11:36:46 122:16	11:38:57 124:12
11:29:40 117:3	11:31:48 118:25	11:34:25 120:21	11:36:48 122:17	11:39:01 124:13
11:29:43 117:4	11:31:51 119:1	11:34:27 120:22	11:36:50 122:18	11:39:06 124:14
11:29:45 117:5,6	11:31:54 119:2	11:34:29 120:23	11:36:51 122:19	11:39:09 124:15
11:29:47 117:7	11:31:58 119:3	11:34:34 120:24	11:36:52 122:20	11:39:11 124:16
11:29:49 117:8	11:32:01 119:4	11:34:39 120:25	11:36:56 122:21	11:39:13 124:17
11:29:53 117:9	11:32:03 119:5	11:34:42 121:1	11:36:59 122:22	11:39:16 124:18

124:19	11:41:42 126:14	11:43:52 128:10	11:46:05 130:7	11:47:46 132:3
11:39:19 124:20	11:41:45 126:15	11:43:56 128:11	11:46:09 130:8	11:47:49 132:4
11:39:24 124:21	11:41:48 126:16	11:43:58 128:12	11:46:11 130:9	11:47:52 132:5
11:39:25 124:22	11:41:50 126:17	11:43:59 128:13	11:46:13 130:10	11:47:55 132:6
11:39:26 124:23	11:41:54 126:18	11:44:01 128:14	11:46:15 130:11	11:47:57 132:7
11:39:30 124:24	11:41:57 126:19	11:44:05 128:15	11:46:17 130:12	11:48:01 132:8
11:39:32 124:25	11:41:59 126:20	11:44:08 128:16	11:46:20 130:13	11:48:07 132:9
11:39:36 125:1	11:42:00 126:21	11:44:12 128:17	11:46:21 130:14	132:10
11:39:39 125:2	11:42:03 126:22	11:44:14 128:18	11:46:23 130:15	11:48:11 132:11
11:39:41 125:3	11:42:05 126:23	11:44:17 128:19	11:46:27 130:16	11:48:16 132:12
11:39:43 125:4	11:42:08 126:24	11:44:22 128:20	11:46:28 130:17	11:48:18 132:13
11:39:45 125:5	11:42:10 126:25	11:44:23 128:21	11:46:30 130:18	11:48:23 132:14
11:39:50 125:6	11:42:14 127:1	11:44:25 128:22	130:19	11:48:26 132:15
11:39:54 125:7	11:42:17 127:2	11:44:27 128:23	11:46:31 130:20	11:48:29 132:16
11:39:58 125:8	11:42:21 127:3	11:44:32 128:24	11:46:33 130:21	11:48:32 132:17
11:40:04 125:9	11:42:22 127:4	11:44:34 128:25	11:46:35 130:22	11:48:36 132:18
11:40:05 125:10	11:42:25 127:5	11:44:36 129:1	11:46:36 130:23	11:48:40 132:19
11:40:07 125:11	11:42:28 127:6	11:44:39 129:2	11:46:37 130:24	11:48:42 132:20
11:40:08 125:12	11:42:30 127:7	11:44:43 129:3	11:46:40 130:25	11:48:45 132:21
11:40:09 125:13	11:42:33 127:8	11:44:47 129:4	11:46:43 131:1	11:48:47 132:22
11:40:14 125:14	11:42:36 127:9	11:44:51 129:5	11:46:44 131:2	11:48:50 132:23
11:40:18 125:15	11:42:38 127:10	11:44:53 129:6	11:46:46 131:3	11:48:53 132:24
11:40:26 125:16	11:42:42 127:11	11:44:56 129:7	11:46:49 131:4	11:48:55 132:25
11:40:29 125:17	11:42:45 127:12	11:44:58 129:8	11:46:50 131:5	11:49:01 133:1
11:40:35 125:18	11:42:48 127:13	11:45:01 129:9	11:46:53 131:6	11:49:04 133:2
11:40:39 125:19	11:42:52 127:14	11:45:05 129:10	11:46:56 131:7	11:49:11 133:3
11:40:43 125:20	11:42:55 127:15	11:45:07 129:11	11:46:59 131:8	11:49:14 133:4
11:40:45 125:21	11:42:58 127:16	11:45:10 129:12	11:47:01 131:9	11:49:18 133:5
11:40:47 125:22	11:43:00 127:17	11:45:12 129:13	11:47:02 131:10	11:49:20 133:6
11:40:50 125:23	11:43:02 127:18	11:45:15 129:14	11:47:04 131:11	11:49:28 133:7
11:40:53 125:24	11:43:03 127:19	11:45:19 129:15	11:47:07 131:12	11:49:29 133:8
11:40:57 125:25	11:43:05 127:20	11:45:21 129:16	11:47:09 131:13	11:49:33 133:9
11:40:59 126:1	11:43:08 127:21	11:45:22 129:17	11:47:12 131:14	11:49:38 133:10
11:41 429:14	11:43:11 127:22	11:45:26 129:18	11:47:13 131:15	11:49:41 133:11
11:41:02 126:2	11:43:15 127:23	11:45:29 129:19	11:47:16 131:16	11:49:43 133:12
11:41:08 126:3	11:43:16 127:24	11:45:31 129:20	131:17	11:49:44 133:13
11:41:12 126:4	11:43:24 127:25	11:45:35 129:21	11:47:20 131:18	11:49:52 133:14
11:41:21 126:5	11:43:26 128:1	11:45:37 129:22	11:47:23 131:19	11:49:55 133:15
11:41:24 126:6	11:43:27 128:2	11:45:42 129:23	11:47:26 131:20	133:16
11:41:25 126:7	11:43:32 128:3	11:45:46 129:24	11:47:29 131:21	11:49:58 133:17
11:41:28 126:8	11:43:34 128:4	11:45:48 129:25	11:47:31 131:22	11:50:03 133:18
11:41:31 126:9	11:43:38 128:5	11:45:51 130:1,2	11:47:34 131:23	11:50:10 133:19
11:41:32 126:10	11:43:39 128:6	11:45:53 130:3	11:47:36 131:24	11:50:11 133:20
11:41:34 126:11	11:43:42 128:7	11:45:56 130:4	11:47:40 131:25	11:50:14 133:21
11:41:37 126:12	11:43:45 128:8	11:45:59 130:5	11:47:42 132:1	133:22
11:41:39 126:13	11:43:50 128:9	11:46:01 130:6	11:47:44 132:2	11:50:17 133:23

11:50:20 133:24	135:20	11:54:50 137:17	11:57:11 139:13	11:59:44 141:11
11:50:25 133:25	11:52:40 135:21	11:54:53 137:18	11:57:14 139:14	11:59:47 141:12
11:50:26 134:1	11:52:44 135:22	11:54:57 137:19	11:57:15 139:15	11:59:48 141:13
11:50:29 134:2	11:52:48 135:23	11:55:00 137:20	11:57:19 139:16	141:14,15
11:50:33 134:3	11:52:49 135:24	11:55:03 137:21	11:57:22 139:17	11:59:50 141:16
11:50:36 134:4	11:52:52 135:25	11:55:06 137:22	11:57:24 139:18	11:59:51 141:17
11:50:42 134:5	11:52:56 136:1,2	11:55:15 137:23	11:57:28 139:19	11:59:53 141:18
11:50:43 134:6	11:52:57 136:3	11:55:18 137:24	11:57:30 139:20	11:59:56 141:19
11:50:44 134:7	11:53:01 136:4	11:55:20 137:25	11:57:31 139:21	11:59:57 141:20
11:50:48 134:8	11:53:05 136:5	11:55:24 138:1	11:57:32 139:22	11:59:58 141:21
11:50:50 134:9	11:53:07 136:6	11:55:30 138:2	11:57:36 139:23	1105-200 1:23
11:50:53 134:10	11:53:08 136:7	11:55:33 138:3	11:57:38 139:24	11th 122:1
11:50:57 134:11	11:53:12 136:8	11:55:38 138:4	11:57:41 139:25	12 1:13 18:20,24
11:51:01 134:12	11:53:16 136:9	11:55:40 138:5	11:57:44 140:1	19:6,15,16
11:51:04 134:13	11:53:18 136:10	11:55:43 138:6	11:57:46 140:2	25:10 32:19,22
11:51:07 134:14	11:53:21 136:11	11:55:47 138:7	11:57:47 140:3	32:24 33:7
11:51:11 134:15	11:53:24 136:12	11:55:50 138:8	11:57:48 140:4	34:17,18,21
11:51:15 134:16	11:53:26 136:13	11:55:53 138:9	11:57:50 140:5	37:19 43:2
11:51:20 134:17	11:53:30 136:14	11:55:54 138:10	11:57:54 140:6	51:4 61:25
11:51:22 134:18	11:53:34 136:15	11:55:55 138:11	11:57:58 140:7	79:21 99:23
11:51:26 134:19	11:53:36 136:16	11:55:59 138:12	11:58:02 140:8	113:1 137:11
11:51:28 134:20	11:53:40 136:17	11:56:02 138:13	11:58:03 140:9	241:4 283:25
11:51:30 134:21	11:53:41 136:18	11:56:07 138:14	11:58:06 140:10	284:5 290:7
11:51:32 134:22	11:53:43 136:19	138:15	11:58:09 140:11	293:19,20
11:51:40 134:23	11:53:46 136:20	11:56:09 138:16	11:58:15 140:12	330:5 365:16
11:51:44 134:24	11:53:52 136:21	11:56:12 138:17	11:58:18 140:13	423:4,6 424:12
11:51:45 134:25	11:53:56 136:22	11:56:17 138:18	11:58:21 140:14	426:13
11:51:49 135:1	11:53:58 136:23	11:56:20 138:19	11:58:24 140:15	12:00:01 141:22
11:51:51 135:2	11:54:00 136:24	11:56:23 138:20	11:58:27 140:16	12:00:04 141:23
11:51:54 135:3	11:54:05 136:25	11:56:24 138:21	11:58:33 140:17	12:00:05 141:24
11:51:57 135:4	11:54:07 137:1	11:56:28 138:22	11:58:37 140:18	12:00:06 141:25
11:52:00 135:5	11:54:09 137:2	11:56:31 138:23	11:58:40 140:19	12:00:08 142:1
11:52:04 135:6	11:54:12 137:3	11:56:35 138:24	11:58:43 140:20	12:00:13 142:2
11:52:07 135:7	11:54:15 137:4	11:56:37 138:25	11:58:45 140:21	12:00:14 142:3
11:52:11 135:8	11:54:18 137:5	11:56:41 139:1	11:58:48 140:22	12:00:16 142:4
11:52:13 135:9	11:54:19 137:6	11:56:44 139:2	11:58:50 140:23	12:00:18 142:5
11:52:15 135:10	11:54:21 137:7	11:56:46 139:3	11:59:19 140:24	12:00:32 142:6
11:52:17 135:11	11:54:24 137:8	11:56:48 139:4	11:59:20 140:25	12:00:33 142:7
11:52:19 135:12	11:54:28 137:9	11:56:51 139:5	11:59:21 141:1	12:00:34 142:8
11:52:21 135:13	11:54:31 137:10	11:56:55 139:6	11:59:24 141:2	12:00:37 142:9
11:52:24 135:14	11:54:33 137:11	11:56:57 139:7	11:59:25 141:3	12:00:38 142:10
11:52:27 135:15	11:54:35 137:12	11:57:00 139:8	11:59:28 141:4,5	12:00:42 142:11
11:52:29 135:16	11:54:38 137:13	11:57:01 139:9	11:59:33 141:6,7	12:00:43 142:12
11:52:34 135:17	11:54:42 137:14	11:57:03 139:10	11:59:36 141:8	12:00:51 142:13
11:52:36 135:18	11:54:45 137:15	11:57:05 139:11	11:59:39 141:9	12:00:53 142:14
11:52:39 135:19	11:54:49 137:16	11:57:08 139:12	11:59:42 141:10	12:00:57 142:15

12:00:59 142:16	12:03:02 144:12	12:05:23 146:8	12:06:59 148:5	12:09:06 150:1
12:01:00 142:17	12:03:05 144:13	12:05:24 146:9	12:07:00 148:6	12:09:09 150:2
12:01:04 142:18	12:03:07 144:14	12:05:25 146:10	12:07:02 148:7	12:09:10 150:3
12:01:07 142:19	12:03:11 144:15	12:05:28 146:11	12:07:04 148:8	12:09:13 150:4
12:01:08 142:20	12:03:12 144:16	12:05:29 146:12	12:07:11 148:9	12:09:16 150:5
12:01:12 142:21	12:03:16 144:17	12:05:31 146:13	12:07:12 148:10	12:09:20 150:6
12:01:13 142:22	12:03:20 144:18	12:05:32 146:14	12:07:15 148:11	12:09:23 150:7
12:01:15 142:23	12:03:23 144:19	12:05:41 146:15	12:07:17 148:12	12:09:26 150:8
12:01:19 142:24	12:03:26 144:20	12:05:42 146:16	12:07:22 148:13	12:09:28 150:9
12:01:22 142:25	12:03:28 144:21	12:05:45 146:17	12:07:25 148:14	12:09:30 150:10
12:01:24 143:1	12:03:30 144:22	12:05:47 146:18	12:07:31 148:15	12:09:33 150:11
12:01:25 143:2	12:03:33 144:23	12:05:49 146:19	12:07:35 148:16	12:09:34 150:12
12:01:30 143:3	12:03:37 144:24	12:05:52 146:20	12:07:38 148:17	12:09:37 150:13
12:01:34 143:4	12:03:40 144:25	12:05:55 146:21	12:07:39 148:18	12:09:40 150:14
12:01:36 143:5	12:03:44 145:1	12:05:57 146:22	148:19	12:09:47 150:15
12:01:42 143:6	12:03:45 145:2	12:05:59 146:23	12:07:41 148:20	12:09:49 150:16
12:01:45 143:7	12:03:49 145:3	12:06:01 146:24	12:07:45 148:21	12:09:52 150:17
12:01:47 143:8	12:03:52 145:4	12:06:04 146:25	12:07:50 148:22	12:09:54 150:18
12:01:48 143:9	12:03:53 145:5	12:06:06 147:1	12:07:54 148:23	12:09:56 150:19
12:01:49 143:10	12:03:55 145:6	12:06:09 147:2	12:07:55 148:24	12:09:59 150:20
12:01:50 143:11	12:04:00 145:7	12:06:10 147:3	12:07:59 148:25	12:10:03 150:21
12:01:55 143:12	12:04:03 145:8	12:06:14 147:4	12:08:02 149:1	12:10:05 150:22
12:01:59 143:13	12:04:08 145:9	12:06:17 147:5	12:08:04 149:2	12:10:09 150:23
12:02:02 143:14	12:04:10 145:10	12:06:18 147:6	12:08:11 149:3	12:10:10 150:24
12:02:03 143:15	12:04:12 145:11	12:06:19 147:7,8	12:08:13 149:4	12:10:13 150:25
12:02:05 143:16	12:04:18 145:12	12:06:21 147:9	12:08:16 149:5	12:10:15 151:1
12:02:09 143:17	12:04:21 145:13	12:06:22 147:10	12:08:19 149:6	12:10:18 151:2
12:02:11 143:18	12:04:22 145:14	12:06:24 147:11	12:08:21 149:7	12:10:20 151:3
12:02:15 143:19	12:04:24 145:15	12:06:25 147:12	12:08:24 149:8	12:10:23 151:4
12:02:17 143:20	12:04:28 145:16	12:06:26 147:13	12:08:25 149:9	12:10:25 151:5
12:02:23 143:21	12:04:30 145:17	12:06:28 147:14	12:08:29 149:10	12:10:27 151:6
12:02:31 143:22	12:04:34 145:18	12:06:30 147:15	12:08:31 149:11	12:10:30 151:7
143:23	12:04:42 145:19	12:06:33 147:16	12:08:32 149:12	12:10:33 151:8
12:02:34 143:24	12:04:43 145:20	12:06:36 147:17	12:08:34 149:13	12:10:35 151:9
12:02:36 143:25	12:04:45 145:21	12:06:38 147:18	12:08:36 149:14	12:10:43 151:10
12:02:39 144:1	145:22	12:06:40 147:19	12:08:39 149:15	12:10:46 151:11
12:02:40 144:2	12:04:55 145:23	12:06:45 147:20	149:16	12:10:48 151:12
12:02:43 144:3	12:04:59 145:24	12:06:47 147:21	12:08:41 149:17	12:10:54 151:13
12:02:45 144:4	12:05:00 145:25	12:06:49 147:22	12:08:46 149:18	12:10:56 151:14
12:02:48 144:5	12:05:01 146:1	12:06:50 147:23	12:08:48 149:19	12:10:58 151:15
12:02:51 144:6	12:05:04 146:2	12:06:51 147:24	12:08:52 149:20	12:11:01 151:16
12:02:53 144:7	12:05:07 146:3	12:06:52 147:25	12:08:54 149:21	12:11:03 151:17
12:02:55 144:8	12:05:09 146:4	12:06:53 148:1	12:08:57 149:22	12:11:05 151:18
12:03:00 144:9	12:05:12 146:5	12:06:54 148:2	12:08:59 149:23	12:11:10 151:19
12:03:01 144:10	12:05:19 146:6	12:06:55 148:3	12:09:00 149:24	12:11:16 151:20
144:11	12:05:22 146:7	12:06:57 148:4	12:09:04 149:25	12:11:19 151:21

12:11:21 151:22	12:25:18 153:16	12:27:20 155:13	12:29:01 157:10	12:31:10 159:7
12:11:29 151:23	12:25:22 153:17	12:27:22 155:14	12:29:03 157:11	12:31:14 159:8
12:11:33 151:24	12:25:25 153:18	12:27:27 155:15	12:29:05 157:12	12:31:17 159:9
12:11:36 151:25	153:19	155:16	12:29:09 157:13	12:31:22 159:10
152:1	12:25:28 153:20	12:27:30 155:17	12:29:14 157:14	12:31:24 159:11
12:11:38 152:2	12:25:31 153:21	12:27:33 155:18	12:29:20 157:15	12:31:26 159:12
12:11:41 152:3	12:25:35 153:22	12:27:34 155:19	12:29:22 157:16	12:31:27 159:13
12:11:43 152:4	12:25:37 153:23	12:27:35 155:20	12:29:25 157:17	12:31:29 159:14
12:11:46 152:5	12:25:40 153:24	155:21	12:29:28 157:18	12:31:34 159:15
12:11:48 152:6	12:25:44 153:25	12:27:36 155:22	12:29:36 157:19	12:31:38 159:16
12:11:49 152:7	12:25:47 154:1	12:27:38 155:23	12:29:38 157:20	12:31:41 159:17
12:11:51 152:8	12:25:49 154:2	12:27:40 155:24	12:29:40 157:21	12:31:45 159:18
12:11:54 152:9	12:25:53 154:3	12:27:42 155:25	12:29:43 157:22	12:31:48 159:19
12:11:56 152:10	12:25:56 154:4	12:27:44 156:1	12:29:46 157:23	12:31:53 159:20
12:12 152:20	12:26:01 154:5	12:27:47 156:2	12:29:47 157:24	12:31:57 159:21
12:12:00 152:11	12:26:02 154:6	12:27:51 156:3	12:29:48 157:25	12:32:00 159:22
12:12:04 152:12	12:26:05 154:7	12:27:52 156:4	12:29:49 158:1	159:23
12:12:08 152:13	12:26:08 154:8	12:27:54 156:5	12:29:52 158:2	12:32:03 159:24
12:12:11 152:14	12:26:09 154:9	12:27:56 156:6	12:29:55 158:3	12:32:05 159:25
12:12:14 152:15	12:26:10 154:10	12:27:57 156:7	12:29:58 158:4,5	12:32:07 160:1
12:12:16 152:16	12:26:13 154:11	12:28:01 156:8	12:30:00 158:6	12:32:08 160:2
12:12:17 152:17	12:26:15 154:12	12:28:05 156:9	12:30:02 158:7	12:32:10 160:3
12:12:23 152:18	12:26:16 154:13	12:28:07 156:10	12:30:04 158:8	12:32:12 160:4
12:12:25 152:19	12:26:22 154:14	12:28:10 156:11	12:30:07 158:9	12:32:15 160:5
12:12:27 152:20	12:26:23 154:15	12:28:15 156:12	12:30:13 158:10	12:32:21 160:6
152:21	12:26:26 154:16	12:28:16 156:13	158:11	12:32:22 160:7
12:24 152:21	12:26:29 154:17	12:28:17 156:14	12:30:14 158:12	12:32:24 160:8
12:24:18 152:22	12:26:32 154:18	12:28:19 156:15	12:30:18 158:13	12:32:27 160:9
152:23	154:19	12:28:24 156:16	12:30:20 158:14	12:32:30 160:10
12:24:19 152:24	12:26:34 154:20	12:28:28 156:17	12:30:21 158:15	12:32:33 160:11
12:24:21 152:25	12:26:37 154:21	12:28:35 156:18	12:30:23 158:16	12:32:35 160:12
12:24:23 153:1	12:26:38 154:22	12:28:36 156:19	12:30:25 158:17	12:32:38 160:13
12:24:27 153:2	12:26:39 154:23	12:28:37 156:20	12:30:28 158:18	12:32:39 160:14
12:24:30 153:3	12:26:45 154:24	12:28:40 156:21	12:30:31 158:19	12:32:42 160:15
12:24:33 153:4	12:26:48 154:25	12:28:41 156:22	12:30:33 158:20	12:32:45 160:16
12:24:37 153:5	12:26:49 155:1	12:28:42 156:23	12:30:36 158:21	12:32:48 160:17
12:24:40 153:6	12:26:50 155:2	12:28:46 156:24	12:30:39 158:22	12:32:50 160:18
12:24:47 153:7	12:26:51 155:3	12:28:47 156:25	12:30:43 158:23	12:32:51 160:19
12:24:48 153:8	12:26:52 155:4	12:28:48 157:1	12:30:48 158:24	12:32:53 160:20
12:24:50 153:9	12:26:57 155:5	12:28:49 157:2,3	12:30:51 158:25	12:32:56 160:21
12:24:51 153:10	12:27:03 155:6,7	12:28:51 157:4	12:30:55 159:1	12:32:58 160:22
12:24:58 153:11	12:27:05 155:8	12:28:53 157:5	12:30:56 159:2	12:33:00 160:23
12:25:00 153:12	12:27:12 155:9	12:28:54 157:6	12:31:00 159:3	12:33:02 160:24
12:25:05 153:13	12:27:14 155:10	12:28:55 157:7	12:31:02 159:4	12:33:06 160:25
12:25:08 153:14	12:27:17 155:11	12:28:58 157:8	12:31:05 159:5	12:33:08 161:1
12:25:12 153:15	12:27:18 155:12	12:28:59 157:9	12:31:09 159:6	12:33:10 161:2

12:33:14 161:3	12:35:35 162:25	12:37:41 164:21	12:40:16 166:18	12:42:18 168:15
12:33:18 161:4	12:35:36 163:1	12:37:43 164:22	12:40:20 166:19	12:42:22 168:16
12:33:24 161:5	12:35:38 163:2	12:37:45 164:23	12:40:23 166:20	12:42:25 168:17
12:33:27 161:6	12:35:44 163:3	12:38:08 164:24	12:40:26 166:21	12:42:26 168:18
12:33:30 161:7	12:35:48 163:4	12:38:09 164:25	12:40:29 166:22	12:42:28 168:19
12:33:33 161:8	12:35:50 163:5	12:38:12 165:1,2	12:40:31 166:23	12:42:29 168:20
12:33:35 161:9	12:35:51 163:6	12:38:15 165:3	12:40:32 166:24	12:42:30 168:21
12:33:38 161:10	12:35:52 163:7	12:38:18 165:4	12:40:34 166:25	12:42:44 168:22
12:33:41 161:11	12:35:55 163:8	12:38:26 165:5	12:40:35 167:1	12:42:50 168:23
12:33:45 161:12	12:35:57 163:9	12:38:29 165:6	12:40:36 167:2	12:42:52 168:24
12:33:48 161:13	12:35:58 163:10	12:38:30 165:7	12:40:38 167:3	12:42:53 168:25
12:33:50 161:14	12:36:02 163:11	12:38:36 165:8	12:40:42 167:4,5	169:1
12:33:54 161:15	12:36:04 163:12	12:38:39 165:9	12:40:44 167:6	12:42:54 169:2
12:33:57 161:16	12:36:06 163:13	12:38:44 165:10	12:40:48 167:7	12:42:59 169:3
12:34:00 161:17	12:36:07 163:14	12:38:46 165:11	12:40:50 167:8	12:43:01 169:4
12:34:02 161:18	12:36:10 163:15	12:38:54 165:12	12:40:56 167:9	12:43:03 169:5
12:34:04 161:19	12:36:12 163:16	12:38:55 165:13	12:41:00 167:10	12:43:05 169:6
12:34:07 161:20	12:36:14 163:17	12:38:58 165:14	12:41:04 167:11	12:43:07 169:7
12:34:10 161:21	12:36:18 163:18	12:38:59 165:15	12:41:06 167:12	12:43:08 169:8
12:34:13 161:22	12:36:23 163:19	12:39:00 165:16	12:41:09 167:13	12:43:11 169:9
12:34:15 161:23	12:36:25 163:20	12:39:13 165:17	12:41:11 167:14	169:10
12:34:18 161:24	12:36:28 163:21	12:39:15 165:18	12:41:14 167:15	12:43:12 169:11
12:34:19 161:25	12:36:30 163:22	12:39:17 165:19	12:41:16 167:16	12:43:14 169:12
12:34:20 162:1	12:36:32 163:23	12:39:18 165:20	12:41:19 167:17	12:43:16 169:13
12:34:22 162:2	12:36:37 163:24	12:39:19 165:21	12:41:21 167:18	12:43:17 169:14
12:34:23 162:3	12:36:39 163:25	12:39:20 165:22	12:41:24 167:19	12:43:21 169:15
12:34:28 162:4	12:36:43 164:1	12:39:23 165:23	12:41:28 167:20	169:16
12:34:32 162:5,6	12:36:45 164:2	165:24	12:41:29 167:21	12:43:22 169:17
12:34:35 162:7	12:36:49 164:3	12:39:24 165:25	12:41:31 167:22	12:43:25 169:18
12:34:37 162:8	12:36:52 164:4	166:1	12:41:32 167:23	12:43:27 169:19
12:34:41 162:9	12:36:56 164:5	12:39:26 166:2	12:41:34 167:24	12:43:28 169:20
12:34:45 162:10	12:37:05 164:6	12:39:32 166:3	12:41:36 167:25	12:43:32 169:21
12:34:47 162:11	12:37:07 164:7	12:39:33 166:4	12:41:37 168:1,2	169:22
12:34:48 162:12	12:37:09 164:8	12:39:34 166:5	12:41:40 168:3	12:43:33 169:23
12:34:50 162:13	12:37:14 164:9	12:39:36 166:6	12:41:44 168:4	12:43:35 169:24
12:34:54 162:14	12:37:15 164:10	12:39:40 166:7	12:41:46 168:5	12:43:38 169:25
12:34:57 162:15	12:37:18 164:11	12:39:43 166:8	12:41:47 168:6	12:43:43 170:1
12:35:02 162:16	12:37:21 164:12	12:39:45 166:9	12:42 423:6	12:43:48 170:2
12:35:07 162:17	12:37:23 164:13	12:39:49 166:10	12:42:02 168:7	12:43:51 170:3
12:35:10 162:18	12:37:25 164:14	12:39:53 166:11	12:42:04 168:8	12:43:56 170:4
12:35:11 162:19	12:37:27 164:15	12:39:56 166:12	12:42:07 168:9	12:43:59 170:5
12:35:15 162:20	12:37:29 164:16	12:40:01 166:13	12:42:08 168:10	12:44:00 170:6
12:35:18 162:21	12:37:31 164:17	12:40:05 166:14	12:42:09 168:11	12:44:03 170:7
12:35:22 162:22	12:37:32 164:18	12:40:08 166:15	12:42:11 168:12	12:44:05 170:8
12:35:28 162:23	12:37:34 164:19	12:40:10 166:16	12:42:13 168:13	12:44:07 170:9
12:35:32 162:24	12:37:37 164:20	12:40:11 166:17	12:42:16 168:14	12:44:09 170:10

12:44:10 170:11	12:45:58 172:7	12:48:00 174:5	12:50:19 176:3	12:52:27 177:24
12:44:11 170:12	12:46:00 172:8	12:48:05 174:6	12:50:21 176:4	12:52:28 177:25
170:13	12:46:01 172:9	12:48:14 174:7	12:50:25 176:5	12:52:34 178:1
12:44:12 170:14	12:46:02 172:10	12:48:20 174:8	12:50:26 176:6	12:52:38 178:2,3
12:44:13 170:15	12:46:03 172:11	12:48:22 174:9	12:50:30 176:7	12:52:42 178:4
12:44:14 170:16	12:46:05 172:12	12:48:27 174:10	12:50:31 176:8	12:52:48 178:5
12:44:17 170:17	12:46:07 172:13	12:48:30 174:11	12:50:33 176:9	12:52:50 178:6
12:44:20 170:18	12:46:09 172:14	12:48:33 174:12	12:50:35 176:10	12:52:52 178:7
170:19	172:15	12:48:35 174:13	12:50:38 176:11	12:52:54 178:8
12:44:21 170:20	12:46:12 172:16	12:48:37 174:14	12:50:39 176:12	12:52:55 178:9
12:44:24 170:21	172:17,18	12:48:39 174:15	12:50:40 176:13	12:52:58 178:10
12:44:27 170:22	12:46:14 172:19	12:48:42 174:16	12:50:41 176:14	12:52:59 178:11
12:44:29 170:23	12:46:17 172:20	12:48:45 174:17	12:50:47 176:15	12:53:01 178:12
12:44:32 170:24	12:46:19 172:21	12:48:47 174:18	12:50:49 176:16	12:53:04 178:13
12:44:37 170:25	12:46:20 172:22	12:48:52 174:19	12:50:52 176:17	12:53:06 178:14
12:44:38 171:1	172:23	12:48:56 174:20	12:51:01 176:18	12:53:07 178:15
12:44:43 171:2	12:46:22 172:24	12:49:00 174:21	12:51:02 176:19	12:53:09 178:16
12:44:49 171:3	12:46:23 172:25	12:49:01 174:22	12:51:03 176:20	12:53:12 178:17
12:44:51 171:4	12:46:26 173:1	12:49:04 174:23	12:51:07 176:21	12:53:16 178:18
12:44:53 171:5	12:46:28 173:2	12:49:07 174:24	12:51:12 176:22	12:53:20 178:19
12:44:55 171:6	12:46:32 173:3	12:49:09 174:25	12:51:15 176:23	12:53:29 178:20
12:44:56 171:7	12:46:36 173:4	175:1	12:51:16 176:24	12:53:31 178:21
12:44:57 171:8	12:46:39 173:5	12:49:13 175:2	12:51:18 176:25	12:53:33 178:22
12:45:06 171:9	12:46:43 173:6	12:49:16 175:3,4	12:51:20 177:1	12:53:35 178:23
12:45:08 171:10	12:46:47 173:7	12:49:20 175:5,6	12:51:23 177:2	12:53:37 178:24
12:45:14 171:11	12:46:55 173:8	12:49:22 175:7	12:51:24 177:3	12:53:41 178:25
12:45:16 171:12	12:46:59 173:9	12:49:24 175:8	12:51:27 177:4	12:53:49 179:1
12:45:21 171:13	12:47:04 173:10	12:49:28 175:9	12:51:30 177:5	12:53:51 179:2
12:45:23 171:14	12:47:08 173:11	12:49:30 175:10	12:51:32 177:6	12:53:55 179:3
12:45:28 171:15	12:47:11 173:12	12:49:32 175:11	12:51:34 177:7	12:53:56 179:4
12:45:31 171:16	12:47:13 173:13	12:49:36 175:12	12:51:39 177:8	12:53:58 179:5
12:45:35 171:17	12:47:14 173:14	12:49:39 175:13	12:51:43 177:9	12:53:59 179:6
12:45:39 171:18	12:47:20 173:15	12:49:44 175:14	12:51:45 177:10	12:54:01 179:7
12:45:40 171:19	173:16	12:49:46 175:15	12:51:49 177:11	12:54:09 179:8
12:45:42 171:20	12:47:21 173:17	12:49:49 175:16	12:51:51 177:12	12:54:10 179:9
171:21	12:47:22 173:18	12:49:54 175:17	12:51:53 177:13	12:54:13 179:10
12:45:43 171:22	12:47:24 173:19	12:49:58 175:18	12:51:56 177:14	179:11
12:45:44 171:23	12:47:31 173:20	12:49:59 175:19	12:51:58 177:15	12:54:16 179:12
12:45:46 171:24	12:47:32 173:21	12:50:01 175:20	12:52:02 177:16	179:13
12:45:48 171:25	12:47:39 173:22	12:50:03 175:21	12:52:03 177:17	12:54:52 179:14
12:45:49 172:1	12:47:46 173:23	12:50:05 175:22	12:52:05 177:18	12:54:53 179:15
12:45:50 172:2	12:47:49 173:24	12:50:10 175:23	12:52:07 177:19	12:54:55 179:16
12:45:51 172:3	12:47:53 173:25	175:24	12:52:11 177:20	12:54:56 179:17
12:45:54 172:4	12:47:54 174:1,2	12:50:11 175:25	12:52:14 177:21	12:54:58 179:18
12:45:55 172:5	12:47:56 174:3	12:50:14 176:1	12:52:18 177:22	12:55:01 179:19
12:45:56 172:6	12:47:59 174:4	12:50:16 176:2	12:52:22 177:23	12:55:02 179:20

12:55:05 179:21	12:56:53 181:19	12:59:13 183:15	13:00:44 185:3	13:02:44 187:2
12:55:08 179:22	12:56:54 181:20	12:59:16 183:16	13:00:46 185:4	13:02:47 187:3
12:55:10 179:23	12:56:55 181:21	183:17	13:00:47 185:5	13:02:49 187:4
12:55:12 179:24	12:56:57 181:22	12:59:21 183:18	13:00:52 185:6	13:02:52 187:5
12:55:13 179:25	12:57:00 181:23	183:19	13:00:56 185:7	13:02:54 187:6
12:55:15 180:1	12:57:02 181:24	12:59:22 183:20	13:00:58 185:8	13:02:57 187:7
12:55:16 180:2	12:57:03 181:25	12:59:23 183:21	13:01:01 185:9	13:02:59 187:8
12:55:19 180:3	12:57:05 182:1	12:59:24 183:22	13:01:14 185:10	13:03:01 187:9
12:55:22 180:4	12:57:07 182:2	12:59:29 183:23	13:01:16 185:11	13:03:03 187:10
12:55:24 180:5	12:57:22 182:3	12:59:32 183:24	13:01:19 185:12	13:03:07 187:11
12:55:25 180:6	12:57:23 182:4	12:59:35 183:25	13:01:20 185:13	13:03:10 187:12
12:55:27 180:7	12:57:27 182:5	184:1	13:01:24 185:14	13:03:14 187:13
12:55:30 180:8	12:57:38 182:6	12:59:37 184:2	13:01:28 185:15	13:03:20 187:14
12:55:32 180:9	12:57:39 182:7	12:59:42 184:3	13:01:29 185:16	13:03:24 187:15
12:55:35 180:10	12:57:44 182:8	12:59:47 184:4	185:17,18	13:03:25 187:16
12:55:36 180:11	12:57:47 182:9	12:59:48 184:5	13:01:31 185:19	13:03:29 187:17
12:55:39 180:12	12:57:48 182:10	12:59:51 184:6	185:20,21	13:03:31 187:18
12:55:44 180:13	12:57:49 182:11	12:59:54 184:7,8	13:01:32 185:22	13:03:35 187:19
12:55:46 180:14	12:57:51 182:12	12:59:56 184:9	185:23	13:03:38 187:20
12:55:48 180:15	182:13	12:59:57 184:10	13:01:33 185:24	187:21
12:55:55 180:16	12:57:55 182:14	120 399:10	185:25	13:03:40 187:22
12:55:59 180:17	12:57:57 182:15	120-metre 63:16	13:01:36 186:1	13:03:43 187:23
12:56:03 180:18	12:57:59 182:16	12th 173:6	13:01:37 186:2	13:03:47 187:24
12:56:06 180:19	12:58:01 182:17	13 36:18 79:24	13:01:38 186:3	13:03:52 187:25
12:56:09 180:20	12:58:04 182:18	104:16 110:21	13:01:39 186:4	13:03:55 188:1
12:56:13 180:21	12:58:09 182:19	111:2 214:12	13:01:42 186:5	13:03:57 188:2
12:56:16 180:22	12:58:10 182:20	255:11 370:11	13:01:43 186:6	13:04:02 188:3
12:56:18 180:23	12:58:15 182:21	406:4 426:4	13:01:44 186:7,8	13:04:06 188:4
12:56:20 180:24	12:58:17 182:22	429:1,11	13:01:46 186:9	13:04:10 188:5
12:56:21 180:25	12:58:21 182:23	13:00:01 184:11	13:01:50 186:10	13:04:12 188:6
12:56:23 181:1	12:58:24 182:24	13:00:04 184:12	13:01:51 186:11	13:04:14 188:7
12:56:24 181:2	12:58:27 182:25	13:00:12 184:13	13:01:52 186:12	13:04:15 188:8
12:56:25 181:3	12:58:30 183:1	184:14	13:01:54 186:13	13:04:16 188:9
12:56:27 181:4	12:58:32 183:2	13:00:15 184:15	13:02:00 186:14	13:04:19 188:10
12:56:29 181:5,6	12:58:41 183:3	13:00:18 184:16	13:02:03 186:15	13:04:23 188:11
12:56:30 181:7	12:58:43 183:4	13:00:22 184:17	13:02:04 186:16	188:12
12:56:31 181:8	12:58:44 183:5	13:00:27 184:18	13:02:06 186:17	13:04:28 188:13
12:56:37 181:9	12:58:47 183:6	13:00:29 184:19	13:02:15 186:18	13:04:29 188:14
12:56:39 181:10	12:58:53 183:7	13:00:31 184:20	13:02:18 186:19	13:04:32 188:15
12:56:40 181:11	12:58:56 183:8	13:00:32 184:21	13:02:22 186:20	13:04:35 188:16
12:56:41 181:12	12:59:01 183:9	13:00:34 184:22	13:02:24 186:21	13:04:37 188:17
12:56:42 181:13	12:59:07 183:10	13:00:35 184:23	13:02:28 186:22	13:04:39 188:18
12:56:43 181:14	12:59:09 183:11	13:00:37 184:24	13:02:30 186:23	13:04:42 188:19
181:15,16	12:59:10 183:12	13:00:38 184:25	13:02:33 186:24	13:04:43 188:20
12:56:45 181:17	183:13	13:00:39 185:1	13:02:35 186:25	13:04:45 188:21
12:56:50 181:18	12:59:11 183:14	13:00:40 185:2	13:02:40 187:1	13:04:47 188:22

13:04:50 188:23	190:11	14:11:09 192:8	14:13:08 194:4	14:15:25 195:25
13:04:53 188:24	14:09:15 190:12	14:11:12 192:9	14:13:11 194:5	14:15:27 196:1
13:04:54 188:25	14:09:17 190:13	14:11:14 192:10	14:13:13 194:6	14:15:31 196:2
13:04:57 189:1	14:09:22 190:14	14:11:17 192:11	14:13:14 194:7	14:15:34 196:3
13:05:01 189:2	190:15	14:11:20 192:12	14:13:17 194:8	14:15:37 196:4
13:05:05 189:3	14:09:25 190:16	192:13	14:13:20 194:9	14:15:38 196:5,6
13:05:07 189:4	14:09:29 190:17	14:11:22 192:14	14:13:25 194:10	14:15:40 196:7
13:05:08 189:5,6	14:09:30 190:18	14:11:25 192:15	14:13:28 194:11	14:15:42 196:8
13:05:10 189:7	14:09:35 190:19	14:11:28 192:16	14:13:31 194:12	14:15:44 196:9
13:05:13 189:8	14:09:40 190:20	14:11:29 192:17	14:13:34 194:13	14:15:46 196:10
13:05:15 189:9	14:09:43 190:21	14:11:31 192:18	14:13:39 194:14	14:15:49 196:11
13:05:49 189:10	14:09:46 190:22	14:11:34 192:19	14:13:42 194:15	14:15:50 196:12
130-million	14:09:48 190:23	14:11:37 192:20	14:13:48 194:16	196:13
136:20	14:09:50 190:24	14:11:42 192:21	14:13:49 194:17	14:15:52 196:14
13th 43:6	14:09:52 190:25	14:11:43 192:22	14:13:53 194:18	14:15:54 196:15
14 19:4 79:24	14:09:53 191:1	192:23	14:13:56 194:19	14:15:55 196:16
83:12 85:22	14:09:56 191:2	14:11:45 192:24	14:13:59 194:20	14:15:58 196:17
105:5 216:24	14:10:03 191:3	14:11:46 192:25	14:14:01 194:21	14:15:59 196:18
255:11 304:10	14:10:07 191:4	14:11:47 193:1	14:14:03 194:22	14:16:02 196:19
304:22 305:12	14:10:10 191:5	14:11:49 193:2	14:14:06 194:23	14:16:05 196:20
332:13 371:25	14:10:12 191:6	14:11:51 193:3	14:14:07 194:24	14:16:07 196:21
424:11 429:23	14:10:13 191:7,8	14:11:52 193:4	14:14:11 194:25	14:16:08 196:22
433:10	14:10:17 191:9	14:11:53 193:5	14:14:14 195:1	14:16:11 196:23
14:07:56 189:11	14:10:18 191:10	14:11:56 193:6	14:14:17 195:2	14:16:15 196:24
189:12,13	14:10:19 191:11	14:11:57 193:7	14:14:24 195:3	14:16:17 196:25
14:08:18 189:14	14:10:23 191:12	14:11:59 193:8	14:14:25 195:4	14:16:18 197:1
14:08:21 189:15	14:10:24 191:13	14:12:00 193:9	14:14:34 195:5	14:16:19 197:2
14:08:22 189:16	14:10:25 191:14	14:12:03 193:10	14:14:35 195:6	14:16:20 197:3
14:08:26 189:17	14:10:26 191:15	14:12:05 193:11	14:14:38 195:7	14:16:23 197:4
14:08:29 189:18	191:16	14:12:10 193:12	14:14:42 195:8	14:16:25 197:5
14:08:31 189:19	14:10:29 191:17	14:12:14 193:13	14:14:45 195:9	14:16:26 197:6
14:08:32 189:20	14:10:33 191:18	14:12:17 193:14	14:14:48 195:10	14:16:30 197:7
189:21	14:10:35 191:19	14:12:23 193:15	14:14:52 195:11	14:16:33 197:8
14:08:37 189:22	14:10:37 191:20	14:12:26 193:16	14:14:56 195:12	14:16:38 197:9
14:08:44 189:23	14:10:39 191:21	14:12:27 193:17	14:14:58 195:13	14:16:39 197:10
14:08:48 189:24	191:22	14:12:32 193:18	14:15:02 195:14	14:16:43 197:11
14:08:52 189:25	14:10:42 191:23	14:12:37 193:19	195:15	14:16:46 197:12
14:08:56 190:1	14:10:44 191:24	14:12:48 193:20	14:15:03 195:16	14:16:50 197:13
14:08:58 190:2	14:10:50 191:25	14:12:51 193:21	14:15:06 195:17	14:16:53 197:14
14:09:00 190:3	14:10:54 192:1	14:12:54 193:22	14:15:08 195:18	14:16:55 197:15
14:09:03 190:4	14:10:57 192:2	193:23	14:15:11 195:19	14:16:57 197:16
14:09:06 190:5	14:11:00 192:3	14:12:56 193:24	14:15:12 195:20	14:16:58 197:17
14:09:09 190:6	14:11:01 192:4	14:13:00 193:25	14:15:16 195:21	14:17:00 197:18
14:09:11 190:7,8	14:11:04 192:5	14:13:02 194:1	14:15:17 195:22	14:17:02 197:19
14:09:12 190:9	14:11:05 192:6	14:13:03 194:2	14:15:19 195:23	14:17:05 197:20
14:09:13 190:10	14:11:07 192:7	14:13:06 194:3	14:15:23 195:24	14:17:06 197:21

14:17:09 197:22	14:18:45 199:21	14:20:52 201:19	14:23:01 203:17	14:24:43 205:17
14:17:11 197:23	14:18:46 199:22	14:20:54 201:20	14:23:02 203:18	205:18
14:17:12 197:24	14:18:49 199:23	14:20:59 201:21	14:23:05 203:19	14:24:46 205:19
14:17:15 197:25	14:18:51 199:24	14:21:05 201:22	14:23:10 203:20	205:20,21
14:17:17 198:1	14:18:55 199:25	14:21:07 201:23	14:23:13 203:21	14:24:47 205:22
14:17:19 198:2	14:19:01 200:1	201:24,25	203:22	14:24:48 205:23
14:17:21 198:3	14:19:02 200:2	14:21:26 202:1	14:23:15 203:23	205:24
14:17:22 198:4	14:19:04 200:3	14:21:28 202:2	14:23:16 203:24	14:24:53 205:25
14:17:24 198:5	14:19:05 200:4	14:21:29 202:3	203:25	14:24:55 206:1
14:17:28 198:6,7	14:19:14 200:5	14:21:30 202:4	14:23:18 204:1,2	14:24:57 206:2
14:17:30 198:8,9	14:19:29 200:6	14:21:31 202:5	14:23:21 204:3	14:24:59 206:3
14:17:32 198:10	14:19:30 200:7	14:21:32 202:6	14:23:22 204:4	14:25:01 206:4
14:17:34 198:11	14:19:33 200:8	14:21:33 202:7	14:23:23 204:5	14:25:06 206:5
198:12	14:19:34 200:9	14:21:34 202:8	14:23:24 204:6	14:25:07 206:6
14:17:36 198:13	200:10	14:21:35 202:9	14:23:27 204:7	14:25:09 206:7
14:17:39 198:14	14:19:36 200:11	14:21:37 202:10	14:23:28 204:8	14:25:10 206:8
14:17:41 198:15	14:19:40 200:12	14:21:40 202:11	14:23:30 204:9	14:25:11 206:9
14:17:42 198:16	14:19:42 200:13	14:21:44 202:12	14:23:32 204:10	14:25:20 206:10
14:17:44 198:17	200:14,15	202:13	14:23:34 204:11	14:25:25 206:11
14:17:47 198:18	14:19:44 200:16	14:21:50 202:14	204:12,13	14:25:28 206:12
14:17:49 198:19	14:19:47 200:17	14:21:53 202:15	14:23:35 204:14	14:25:34 206:13
14:17:51 198:20	14:19:49 200:18	14:21:56 202:16	14:23:38 204:15	14:25:38 206:14
198:21	14:19:50 200:19	14:21:59 202:17	14:23:40 204:16	14:25:40 206:15
14:17:53 198:22	14:19:57 200:20	14:22:00 202:18	14:23:44 204:17	14:25:41 206:16
14:17:55 198:23	200:21	14:22:03 202:19	204:18,19	14:25:42 206:17
14:17:57 198:24	14:20:00 200:22	14:22:06 202:20	14:23:46 204:20	14:25:44 206:18
14:18:00 198:25	14:20:03 200:23	14:22:09 202:21	14:23:51 204:21	14:25:46 206:19
14:18:02 199:1	14:20:04 200:24	14:22:11 202:22	14:23:53 204:22	14:25:49 206:20
14:18:05 199:2	200:25	14:22:16 202:23	14:23:59 204:23	206:21
14:18:09 199:3,4	14:20:07 201:1	14:22:19 202:24	14:24:03 204:24	14:25:51 206:22
14:18:14 199:5	14:20:08 201:2	14:22:23 202:25	14:24:04 204:25	14:25:54 206:23
14:18:16 199:6	14:20:09 201:3	203:1	14:24:08 205:1	14:25:57 206:24
14:18:19 199:7	14:20:11 201:4,5	14:22:24 203:2,3	14:24:10 205:2	14:26:01 206:25
14:18:20 199:8	14:20:14 201:6	14:22:26 203:4	14:24:13 205:3	14:26:08 207:1
14:18:23 199:9	14:20:16 201:7	14:22:28 203:5	14:24:16 205:4	14:26:12 207:2
14:18:24 199:10	14:20:18 201:8	14:22:31 203:6	14:24:21 205:5	14:26:15 207:3
14:18:28 199:11	14:20:23 201:9	14:22:33 203:7	14:24:25 205:6	14:26:18 207:4,5
14:18:30 199:12	14:20:27 201:10	14:22:36 203:8	14:24:29 205:7	207:6
14:18:32 199:13	14:20:30 201:11	14:22:40 203:9	14:24:30 205:8,9	14:26:26 207:7
14:18:33 199:14	14:20:32 201:12	14:22:46 203:10	14:24:32 205:10	14:26:27 207:8
199:15	14:20:37 201:13	14:22:47 203:11	14:24:35 205:11	14:26:31 207:9
14:18:34 199:16	14:20:39 201:14	14:22:48 203:12	14:24:37 205:12	14:26:33 207:10
14:18:38 199:17	14:20:40 201:15	14:22:51 203:13	205:13	14:26:36 207:11
14:18:41 199:18	14:20:43 201:16	14:22:55 203:14	14:24:38 205:14	14:26:37 207:12
14:18:43 199:19	14:20:46 201:17	14:22:56 203:15	14:24:41 205:15	14:26:39 207:13
14:18:44 199:20	14:20:47 201:18	14:23:00 203:16	14:24:42 205:16	14:26:42 207:14

14:26:46 207:15	209:12,13	14:30:55 211:9	14:32:30 213:6	14:34:42 215:5
14:26:49 207:16	14:29:01 209:14	14:30:57 211:10	14:32:31 213:7	14:34:44 215:6,7
14:26:53 207:17	14:29:05 209:15	14:30:59 211:11	14:32:34 213:8	14:34:47 215:8
14:26:58 207:18	209:16	211:12	14:32:38 213:9	14:34:49 215:9
14:27:00 207:19	14:29:08 209:17	14:31:00 211:13	14:32:42 213:10	14:34:50 215:10
14:27:02 207:20	14:29:10 209:18	14:31:02 211:14	14:32:46 213:11	14:34:51 215:11
14:27:04 207:21	14:29:13 209:19	14:31:03 211:15	14:32:48 213:12	14:34:53 215:12
14:27:05 207:22	14:29:17 209:20	211:16	14:32:50 213:13	14:34:55 215:13
14:27:13 207:23	14:29:19 209:21	14:31:05 211:17	14:32:51 213:14	14:34:59 215:14
14:27:14 207:24	14:29:20 209:22	14:31:06 211:18	14:32:52 213:15	14:35:01 215:15
14:27:18 207:25	14:29:24 209:23	14:31:07 211:19	14:32:54 213:16	14:35:03 215:16
14:27:22 208:1	14:29:26 209:24	14:31:09 211:20	14:32:55 213:17	14:35:05 215:17
14:27:23 208:2	14:29:27 209:25	14:31:12 211:21	14:32:56 213:18	14:35:06 215:18
14:27:25 208:3	14:29:28 210:1	14:31:26 211:22	14:32:58 213:19	14:35:08 215:19
14:27:30 208:4	14:29:29 210:2	14:31:29 211:23	14:33:01 213:20	215:20
14:27:34 208:5	14:29:31 210:3	14:31:31 211:24	14:33:03 213:21	14:35:15 215:21
14:27:38 208:6	14:29:32 210:4	14:31:32 211:25	14:33:16 213:22	14:35:18 215:22
14:27:40 208:7	14:29:34 210:5	14:31:34 212:1	14:33:21 213:23	14:35:20 215:23
14:27:46 208:8	14:29:35 210:6	14:31:35 212:2	14:33:24 213:24	14:35:22 215:24
14:27:49 208:9	14:29:37 210:7	14:31:37 212:3	14:33:25 213:25	14:35:24 215:25
14:27:51 208:10	14:29:39 210:8	14:31:38 212:4	14:33:30 214:1,2	14:35:25 216:1
14:27:53 208:11	14:29:40 210:9	14:31:40 212:5	14:33:31 214:3	14:35:27 216:2
14:27:56 208:12	14:29:41 210:10	14:31:43 212:6,7	14:33:32 214:4	14:35:30 216:3
14:27:58 208:13	14:29:42 210:11	212:8	14:33:33 214:5	14:35:35 216:4
14:27:59 208:14	14:29:45 210:12	14:31:46 212:9	14:33:35 214:6,7	14:35:40 216:5
14:28:01 208:15	14:29:46 210:13	14:31:48 212:10	214:8	14:35:43 216:6
14:28:04 208:16	14:29:47 210:14	14:31:49 212:11	14:33:38 214:9	14:35:46 216:7
14:28:09 208:17	14:29:48 210:15	14:31:52 212:12	214:10	14:35:49 216:8
14:28:12 208:18	14:29:50 210:16	14:31:54 212:13	14:33:48 214:11	14:35:51 216:9
14:28:16 208:19	14:29:52 210:17	14:31:55 212:14	14:33:52 214:12	14:35:54 216:10
14:28:18 208:20	14:29:54 210:18	14:31:56 212:15	14:33:54 214:13	14:35:58 216:11
14:28:22 208:21	14:29:55 210:19	14:31:57 212:16	14:33:55 214:14	14:36:01 216:12
14:28:24 208:22	14:30:03 210:20	14:31:58 212:17	214:15	14:36:04 216:13
14:28:26 208:23	14:30:08 210:21	14:32:00 212:18	14:34:09 214:16	14:36:06 216:14
14:28:31 208:24	14:30:11 210:22	14:32:02 212:19	14:34:15 214:17	14:36:09 216:15
14:28:33 208:25	14:30:12 210:23	14:32:03 212:20	214:18	14:36:12 216:16
14:28:35 209:1	14:30:14 210:24	212:21	14:34:20 214:19	14:36:14 216:17
14:28:37 209:2	14:30:15 210:25	14:32:05 212:22	14:34:23 214:20	216:18,19
14:28:38 209:3	14:30:17 211:1	14:32:07 212:23	14:34:29 214:21	14:36:21 216:20
14:28:39 209:4	14:30:21 211:2	14:32:10 212:24	14:34:31 214:22	14:36:22 216:21
14:28:41 209:5	14:30:24 211:3	14:32:11 212:25	14:34:32 214:23	14:36:24 216:22
14:28:45 209:6	14:30:34 211:4	14:32:13 213:1	14:34:33 214:24	14:36:33 216:23
14:28:46 209:7,8	14:30:39 211:5	14:32:15 213:2	14:34:35 214:25	216:24
14:28:47 209:9	14:30:41 211:6	14:32:19 213:3	14:34:36 215:1	14:36:34 216:25
14:28:49 209:10	14:30:48 211:7	14:32:23 213:4	14:34:37 215:2,3	14:36:39 217:1,2
14:28:53 209:11	14:30:51 211:8	14:32:26 213:5	14:34:40 215:4	14:36:42 217:3

14:36:49 217:4	14:38:30 219:1,2	14:40:34 220:25	14:42:13 222:23	14:44:10 224:20
14:36:51 217:5	14:38:34 219:3	14:40:35 221:1	14:42:14 222:24	14:44:12 224:21
14:36:52 217:6	14:38:38 219:4	14:40:37 221:2,3	14:42:17 222:25	224:22
14:36:56 217:7	14:38:42 219:5	14:40:40 221:4	14:42:19 223:1	14:44:16 224:23
14:36:58 217:8	14:38:44 219:6	14:40:42 221:5	14:42:22 223:2	14:44:17 224:24
14:36:59 217:9	14:38:45 219:7	14:40:44 221:6	14:42:26 223:3	14:44:19 224:25
14:37:01 217:10	14:38:48 219:8	14:40:46 221:7,8	14:42:28 223:4	14:44:20 225:1
14:37:02 217:11	14:38:50 219:9	14:40:48 221:9	14:42:29 223:5	14:44:22 225:2
14:37:07 217:12	14:38:52 219:10	14:40:49 221:10	14:42:31 223:6,7	14:44:23 225:3
217:13	14:38:55 219:11	14:40:51 221:11	14:42:34 223:8	14:44:25 225:4
14:37:14 217:14	219:12	14:40:52 221:12	14:42:35 223:9	14:44:26 225:5,6
217:15	14:38:57 219:13	14:40:54 221:13	14:42:37 223:10	14:44:27 225:7
14:37:17 217:16	14:38:59 219:14	14:40:56 221:14	14:42:39 223:11	14:44:28 225:8
14:37:19 217:17	14:39:00 219:15	14:40:59 221:15	14:42:40 223:12	14:44:30 225:9
14:37:20 217:18	14:39:02 219:16	14:41:00 221:16	14:42:42 223:13	14:44:31 225:10
217:19	14:39:04 219:17	14:41:02 221:17	14:42:45 223:14	225:11
14:37:23 217:20	14:39:10 219:18	14:41:04 221:18	14:42:47 223:15	14:44:33 225:12
14:37:24 217:21	14:39:11 219:19	14:41:05 221:19	14:42:50 223:16	14:44:34 225:13
217:22	14:39:13 219:20	14:41:07 221:20	14:42:54 223:17	14:44:35 225:14
14:37:26 217:23	14:39:15 219:21	14:41:09 221:21	14:42:58 223:18	14:44:36 225:15
14:37:28 217:24	14:39:16 219:22	14:41:10 221:22	14:43:01 223:19	14:44:37 225:16
14:37:30 217:25	14:39:18 219:23	14:41:11 221:23	14:43:04 223:20	14:44:39 225:17
14:37:32 218:1	14:39:20 219:24	14:41:13 221:24	14:43:05 223:21	225:18
14:37:33 218:2,3	14:39:22 219:25	14:41:14 221:25	14:43:07 223:22	14:44:41 225:19
218:4	14:39:23 220:1	14:41:15 222:1	14:43:10 223:23	14:44:43 225:20
14:37:37 218:5	14:39:26 220:2	14:41:16 222:2	14:43:12 223:24	14:44:45 225:21
14:37:42 218:6	14:39:31 220:3	14:41:23 222:3	14:43:13 223:25	14:44:46 225:22
14:37:45 218:7	14:39:33 220:4	14:41:27 222:4	14:43:15 224:1	14:44:47 225:23
14:37:48 218:8	14:39:37 220:5	14:41:31 222:5	14:43:16 224:2	14:44:48 225:24
14:37:49 218:9	14:39:39 220:6	14:41:34 222:6	14:43:17 224:3	14:44:50 225:25
14:37:50 218:10	14:39:42 220:7	14:41:35 222:7	14:43:18 224:4	14:44:51 226:1
14:37:52 218:11	14:39:43 220:8	14:41:39 222:8	14:43:20 224:5	14:44:53 226:2
14:37:56 218:12	14:39:44 220:9	14:41:41 222:9	14:43:23 224:6	14:44:55 226:3
14:37:58 218:13	14:39:45 220:10	14:41:42 222:10	14:43:26 224:7	14:44:57 226:4
14:38:01 218:14	14:39:48 220:11	14:41:45 222:11	14:43:29 224:8	14:44:58 226:5
14:38:04 218:15	14:39:50 220:12	14:41:46 222:12	14:43:33 224:9	14:45:05 226:6
14:38:05 218:16	220:13,14,15	222:13	14:43:37 224:10	14:45:08 226:7
14:38:07 218:17	14:40:02 220:16	14:41:48 222:14	14:43:41 224:11	14:45:10 226:8
14:38:08 218:18	14:40:10 220:17	14:41:49 222:15	224:12	14:45:16 226:9
14:38:10 218:19	14:40:14 220:18	14:41:54 222:16	14:43:43 224:13	14:45:19 226:10
14:38:11 218:20	14:40:19 220:19	14:41:57 222:17	14:43:48 224:14	14:45:22 226:11
14:38:13 218:21	14:40:22 220:20	14:42:02 222:18	14:43:52 224:15	14:45:27 226:12
218:22	14:40:24 220:21	14:42:06 222:19	14:43:53 224:16	14:45:32 226:13
14:38:18 218:23	14:40:29 220:22	14:42:07 222:20	224:17	14:45:37 226:14
218:24	14:40:32 220:23	14:42:09 222:21	14:43:55 224:18	14:45:41 226:15
14:38:27 218:25	220:24	14:42:10 222:22	14:44:08 224:19	14:45:45 226:16

14:45:48 226:17	228:14	14:49:10 230:10	14:50:34 232:6	14:52:04 234:2
14:45:49 226:18	14:47:26 228:15	14:49:12 230:11	14:50:37 232:7	14:52:07 234:3
14:45:51 226:19	14:47:28 228:16	14:49:13 230:12	14:50:39 232:8	14:52:09 234:4
14:45:53 226:20	14:47:30 228:17	14:49:15 230:13	14:50:41 232:9	14:52:11 234:5
14:45:55 226:21	14:47:34 228:18	14:49:16 230:14	14:50:42 232:10	14:52:13 234:6
14:45:57 226:22	14:47:39 228:19	14:49:17 230:15	14:50:44 232:11	14:52:15 234:7
14:45:59 226:23	14:47:41 228:20	14:49:19 230:16	14:50:46 232:12	14:52:19 234:8
14:46:00 226:24	14:47:44 228:21	14:49:20 230:17	14:50:51 232:13	14:52:23 234:9
14:46:04 226:25	14:47:47 228:22	14:49:22 230:18	14:50:53 232:14	14:52:25 234:10
14:46:07 227:1	14:47:50 228:23	230:19	232:15	14:52:27 234:11
14:46:09 227:2	14:47:53 228:24	14:49:25 230:20	14:50:56 232:16	14:52:32 234:12
14:46:11 227:3	14:47:56 228:25	14:49:27 230:21	14:50:57 232:17	234:13
14:46:13 227:4	14:47:57 229:1	14:49:28 230:22	14:50:58 232:18	14:52:33 234:14
14:46:16 227:5	14:47:59 229:2	14:49:29 230:23	14:50:59 232:19	14:52:36 234:15
14:46:19 227:6	14:48:00 229:3	14:49:30 230:24	14:51:01 232:20	234:16
14:46:20 227:7	14:48:02 229:4	14:49:32 230:25	14:51:03 232:21	14:52:37 234:17
14:46:21 227:8	14:48:04 229:5	14:49:33 231:1	232:22	14:52:40 234:18
14:46:24 227:9	14:48:07 229:6	14:49:34 231:2	14:51:07 232:23	14:52:42 234:19
14:46:26 227:10	14:48:10 229:7	14:49:37 231:3	232:24	14:52:44 234:20
14:46:30 227:11	14:48:12 229:8	14:49:38 231:4	14:51:08 232:25	14:52:47 234:21
14:46:31 227:12	14:48:15 229:9	14:49:40 231:5	14:51:17 233:1	14:52:51 234:22
14:46:33 227:13	14:48:16 229:10	14:49:41 231:6	14:51:25 233:2	234:23
14:46:34 227:14	14:48:17 229:11	14:49:42 231:7	14:51:27 233:3	14:52:56 234:24
14:46:35 227:15	14:48:20 229:12	14:49:43 231:8	14:51:30 233:4	14:52:58 234:25
14:46:37 227:16	14:48:21 229:13	14:49:44 231:9	14:51:31 233:5	14:52:59 235:1
14:46:39 227:17	14:48:23 229:14	14:49:46 231:10	14:51:34 233:6	14:53:05 235:2
14:46:42 227:18	14:48:24 229:15	14:49:47 231:11	14:51:36 233:7	14:53:06 235:3
14:46:43 227:19	14:48:25 229:16	14:49:48 231:12	14:51:37 233:8	14:53:10 235:4
14:46:45 227:20	14:48:29 229:17	14:49:50 231:13	14:51:38 233:9	14:53:12 235:5
14:46:48 227:21	14:48:31 229:18	14:49:52 231:14	233:10	14:53:13 235:6
14:46:50 227:22	14:48:32 229:19	231:15	14:51:40 233:11	14:53:14 235:7
14:46:53 227:23	14:48:34 229:20	14:49:54 231:16	14:51:41 233:12	14:53:16 235:8
14:46:55 227:24	14:48:36 229:21	14:49:59 231:17	14:51:42 233:13	14:53:17 235:9
14:46:56 227:25	14:48:37 229:22	14:50:01 231:18	14:51:43 233:14	235:10
228:1	14:48:38 229:23	231:19	14:51:45 233:15	14:53:19 235:11
14:46:57 228:2,3	14:48:42 229:24	14:50:05 231:20	14:51:46 233:16	235:12
14:46:58 228:4	14:48:45 229:25	14:50:09 231:21	14:51:48 233:17	14:53:21 235:13
14:46:59 228:5	14:48:46 230:1	14:50:10 231:22	233:18	14:53:24 235:14
14:47:01 228:6	14:48:53 230:2	14:50:12 231:23	14:51:52 233:19	14:53:28 235:15
14:47:05 228:7	14:48:57 230:3	14:50:13 231:24	14:51:53 233:20	14:53:30 235:16
14:47:07 228:8	14:49:01 230:4	14:50:14 231:25	14:51:55 233:21	14:53:31 235:17
14:47:08 228:9	14:49:03 230:5	14:50:17 232:1	14:51:56 233:22	14:53:33 235:18
14:47:12 228:10	14:49:04 230:6	14:50:19 232:2	14:51:58 233:23	14:53:34 235:19
14:47:15 228:11	14:49:05 230:7	14:50:22 232:3	14:52:00 233:24	14:53:36 235:20
14:47:22 228:12	14:49:06 230:8	14:50:29 232:4	233:25	235:21
14:47:24 228:13	14:49:08 230:9	14:50:31 232:5	14:52:03 234:1	14:53:38 235:22

14:53:41 235:23	14:55:31 237:23	14:57:19 239:25	14:59:29 241:21	15:01:31 243:11
14:53:44 235:24	14:55:32 237:24	14:57:21 240:1	14:59:32 241:22	15:01:32 243:12
14:53:45 235:25	14:55:36 237:25	14:57:26 240:2	241:23	15:01:33 243:13
236:1	14:55:39 238:1	14:57:33 240:3	14:59:39 241:24	15:01:34 243:14
14:53:47 236:2	14:55:41 238:2	14:57:44 240:4	14:59:56 241:25	15:01:36 243:15
14:53:54 236:3	14:55:43 238:3,4	14:57:49 240:5	140 3:6	15:01:38 243:16
14:53:56 236:4	14:55:45 238:5	14:57:52 240:6	142 3:7	15:01:43 243:17
14:54:01 236:5,6	14:55:47 238:6	14:57:55 240:7	14th 174:7	243:18
14:54:03 236:7	14:55:49 238:7	14:57:56 240:8	15 100:5 105:10	15:01:47 243:19
14:54:09 236:8	14:55:52 238:8,9	14:57:58 240:9	218:24 306:10	15:01:49 243:20
14:54:14 236:9	14:55:54 238:10	14:57:59 240:10	316:19 321:22	243:21
14:54:15 236:10	14:55:55 238:11	14:58:00 240:11	334:12	15:01:51 243:22
236:11,12	14:55:56 238:12	14:58:02 240:12	15,000 388:6	15:01:54 243:23
14:54:17 236:13	14:55:57 238:13	14:58:04 240:13	409:17	243:24
14:54:18 236:14	14:55:58 238:14	14:58:08 240:14	15:00:02 242:1	15:02:15 243:25
14:54:20 236:15	14:56:01 238:15	240:15	15:00:07 242:2	15:02:44 244:1
14:54:23 236:16	14:56:02 238:16	14:58:15 240:16	15:00:12 242:3	15:02:45 244:2
236:17	238:17	14:58:20 240:17	15:00:17 242:4,5	15:02:51 244:3
14:54:24 236:18	14:56:05 238:18	14:58:23 240:18	15:00:20 242:6	15:02:55 244:4
14:54:28 236:19	14:56:08 238:19	14:58:25 240:19	15:00:22 242:7,8	15:02:59 244:5
14:54:29 236:20	14:56:10 238:20	14:58:29 240:20	15:00:25 242:9	15:03:00 244:6
14:54:35 236:21	14:56:12 238:21	14:58:30 240:21	15:00:26 242:10	15:03:03 244:7
14:54:40 236:22	14:56:19 238:22	14:58:31 240:22	15:00:27 242:11	15:03:05 244:8
236:23,24	238:23,24	14:58:32 240:23	242:12,13	15:03:06 244:9
14:54:42 236:25	14:56:22 238:25	240:24	15:00:31 242:14	15:03:09 244:10
14:54:43 237:1	14:56:25 239:1	14:58:35 240:25	15:00:35 242:15	15:03:11 244:11
14:54:45 237:2	14:56:28 239:2,3	241:1	15:00:37 242:16	15:03:15 244:12
14:54:48 237:3	14:56:29 239:4	14:58:42 241:2	15:00:39 242:17	15:03:17 244:13
14:54:50 237:4	14:56:31 239:5	14:58:50 241:3	15:00:42 242:18	15:03:18 244:14
14:54:51 237:5,6	14:56:33 239:6,7	14:58:53 241:4	15:00:43 242:19	15:03:20 244:15
14:54:52 237:7	14:56:34 239:8,9	14:58:58 241:5	15:00:45 242:20	15:03:25 244:16
14:54:53 237:8	14:56:38 239:10	14:59:00 241:6	15:00:49 242:21	15:03:26 244:17
14:54:55 237:9	14:56:41 239:11	14:59:02 241:7	15:00:54 242:22	244:18
14:54:57 237:10	14:56:46 239:12	14:59:03 241:8	15:00:56 242:23	15:03:27 244:19
14:55:00 237:11	14:56:48 239:13	14:59:06 241:9	15:00:57 242:24	15:03:28 244:20
14:55:03 237:12	14:56:50 239:14	14:59:07 241:10	15:01:01 242:25	244:21
14:55:05 237:13	14:56:56 239:15	14:59:08 241:11	15:01:05 243:1	15:03:30 244:22
14:55:08 237:14	14:56:58 239:16	14:59:11 241:12	15:01:11 243:2	15:03:31 244:23
14:55:09 237:15	14:56:59 239:17	14:59:12 241:13	15:01:13 243:3	15:03:35 244:24
14:55:13 237:16	14:57:01 239:18	14:59:14 241:14	15:01:16 243:4	15:03:37 244:25
14:55:15 237:17	14:57:05 239:19	14:59:15 241:15	15:01:18 243:5	15:03:42 245:1
14:55:17 237:18	14:57:08 239:20	14:59:16 241:16	15:01:22 243:6	15:03:45 245:2,3
14:55:26 237:19	14:57:11 239:21	14:59:17 241:17	15:01:24 243:7	15:03:47 245:4
14:55:28 237:20	14:57:13 239:22	14:59:20 241:18	15:01:27 243:8	15:03:50 245:5
237:21	14:57:15 239:23	14:59:21 241:19	15:01:28 243:9	15:03:54 245:6
14:55:30 237:22	14:57:17 239:24	14:59:26 241:20	15:01:30 243:10	15:03:57 245:7

15:03:59 245:8	15:05:36 247:10	15:07:26 249:6	15:08:54 251:3	15:11:40 252:25
15:04:01 245:9	15:05:40 247:11	15:07:27 249:7	15:08:55 251:4	15:11:44 253:1
15:04:03 245:10	15:05:42 247:12	15:07:29 249:8	15:08:56 251:5,6	15:11:47 253:2
15:04:05 245:11	15:05:43 247:13	15:07:31 249:9	15:08:58 251:7	15:11:50 253:3
15:04:06 245:12	247:14	249:10	15:08:59 251:8	15:11:55 253:4
245:13	15:05:45 247:15	15:07:32 249:11	15:09:04 251:9	15:11:58 253:5
15:04:11 245:14	15:05:46 247:16	15:07:35 249:12	15:09:07 251:10	15:11:59 253:6,7
15:04:13 245:15	15:05:48 247:17	249:13	15:09:10 251:11	15:12:05 253:8
15:04:15 245:16	15:05:50 247:18	15:07:38 249:14	15:09:17 251:12	15:12:06 253:9
15:04:17 245:17	247:19	15:07:39 249:15	15:09:19 251:13	15:12:08 253:10
15:04:18 245:18	15:05:53 247:20	249:16	15:09:39 251:14	15:12:10 253:11
15:04:19 245:19	15:05:55 247:21	15:07:42 249:17	251:15	15:12:11 253:12
15:04:22 245:20	15:05:58 247:22	15:07:43 249:18	15:10:24 251:16	15:12:12 253:13
15:04:24 245:21	15:05:59 247:23	15:07:44 249:19	15:10:25 251:17	15:12:16 253:14
15:04:27 245:22	247:24	15:07:46 249:20	15:10:27 251:18	15:12:21 253:15
15:04:35 245:23	15:06:01 247:25	15:07:48 249:21	15:10:30 251:19	15:12:22 253:16
15:04:36 245:24	15:06:12 248:1	15:07:49 249:22	15:10:32 251:20	15:12:23 253:17
15:04:40 245:25	15:06:15 248:2	15:07:51 249:23	15:10:33 251:21	15:12:25 253:18
15:04:45 246:1	15:06:21 248:3	15:07:52 249:24	15:10:35 251:22	15:12:26 253:19
15:04:47 246:2,3	15:06:24 248:4	15:07:53 249:25	251:23	15:12:28 253:20
246:4	15:06:26 248:5	15:07:54 250:1	15:10:36 251:24	15:12:29 253:21
15:04:50 246:5	15:06:30 248:6	15:07:56 250:2	15:10:38 251:25	15:12:30 253:22
15:04:52 246:6,7	15:06:32 248:7	15:07:57 250:3	15:10:39 252:1	15:12:32 253:23
15:04:53 246:8,9	15:06:33 248:8	15:07:59 250:4	15:10:41 252:2	15:12:35 253:24
15:04:55 246:10	15:06:35 248:9	15:08:01 250:5	15:10:44 252:3	15:12:36 253:25
15:04:58 246:11	15:06:37 248:10	15:08:02 250:6	15:10:46 252:4	15:12:39 254:1
15:05:00 246:12	15:06:38 248:11	15:08:04 250:7	15:10:48 252:5	15:12:43 254:2
15:05:01 246:13	15:06:39 248:12	15:08:05 250:8	15:10:51 252:6	15:12:49 254:3
15:05:02 246:14	15:06:41 248:13	15:08:06 250:9	15:10:52 252:7	15:12:51 254:4
15:05:05 246:15	15:06:43 248:14	15:08:08 250:10	15:10:53 252:8	15:12:53 254:5
246:16,17,18	15:06:45 248:15	15:08:09 250:11	15:10:55 252:9	15:13:00 254:6
15:05:07 246:19	15:06:47 248:16	15:08:11 250:12	15:10:58 252:10	15:13:04 254:7
15:05:10 246:20	15:06:48 248:17	15:08:12 250:13	15:11:00 252:11	15:13:06 254:8
15:05:11 246:21	15:06:57 248:18	15:08:14 250:14	252:12	15:13:09 254:9
246:22	15:07:06 248:19	15:08:15 250:15	15:11:03 252:13	15:13:12 254:10
15:05:12 246:23	15:07:08 248:20	250:16	15:11:06 252:14	15:13:16 254:11
15:05:13 246:24	15:07:12 248:21	15:08:16 250:17	15:11:09 252:15	15:13:18 254:12
15:05:14 246:25	15:07:14 248:22	15:08:25 250:18	15:11:11 252:16	15:13:23 254:13
15:05:15 247:1,2	15:07:16 248:23	15:08:27 250:19	15:11:13 252:17	15:13:26 254:14
247:3	15:07:17 248:24	15:08:36 250:20	15:11:18 252:18	15:13:29 254:15
15:05:16 247:4	248:25	15:08:40 250:21	15:11:20 252:19	15:13:31 254:16
15:05:17 247:5	15:07:19 249:1	15:08:44 250:22	15:11:24 252:20	15:13:35 254:17
15:05:19 247:6	15:07:20 249:2	15:08:46 250:23	15:11:27 252:21	15:13:38 254:18
15:05:26 247:7	15:07:22 249:3	15:08:49 250:24	15:11:31 252:22	15:13:42 254:19
15:05:31 247:8	15:07:23 249:4	15:08:50 250:25	15:11:33 252:23	15:13:43 254:20
15:05:34 247:9	15:07:25 249:5	15:08:53 251:1,2	15:11:37 252:24	15:13:48 254:21

15:13:50 254:22	15:16:29 256:18	15:18:19 258:16	15:20:25 260:12	15:22:32 262:9
15:13:52 254:23	15:16:31 256:19	15:18:22 258:17	15:20:27 260:13	15:22:35 262:10
15:13:55 254:24	15:16:32 256:20	15:18:25 258:18	15:20:29 260:14	15:22:36 262:11
15:13:57 254:25	15:16:33 256:21	15:18:28 258:19	15:20:34 260:15	262:12
15:14:05 255:1	15:16:35 256:22	15:18:32 258:20	15:20:37 260:16	15:22:39 262:13
15:14:08 255:2	15:16:37 256:23	15:18:34 258:21	15:20:38 260:17	15:22:41 262:14
15:14:13 255:3	15:16:43 256:24	15:18:36 258:22	15:20:45 260:18	15:22:43 262:15
15:14:16 255:4	15:16:45 256:25	15:18:38 258:23	15:20:46 260:19	15:22:47 262:16
15:14:19 255:5	15:16:47 257:1	15:18:40 258:24	15:20:48 260:20	15:22:48 262:17
15:14:23 255:6	15:16:48 257:2,3	15:18:42 258:25	15:20:51 260:21	15:22:51 262:18
15:14:27 255:7	15:16:50 257:4	15:18:45 259:1	15:20:52 260:22	262:19
15:14:35 255:8	15:16:51 257:5	15:18:46 259:2	15:20:55 260:23	15:22:56 262:20
15:14:36 255:9	15:16:53 257:6	15:18:47 259:3	15:20:57 260:24	15:23:04 262:21
15:14:38 255:10	15:16:56 257:7	15:18:50 259:4	15:20:58 260:25	15:23:05 262:22
15:14:41 255:11	15:16:57 257:8	15:18:53 259:5	15:20:59 261:1	15:23:06 262:23
15:14:46 255:12	15:17:01 257:9	15:18:55 259:6	15:21:05 261:2	262:24
15:14:50 255:13	15:17:04 257:10	15:18:58 259:7	15:21:10 261:3	15:23:08 262:25
15:14:54 255:14	15:17:09 257:11	15:19:01 259:8	15:21:13 261:4	15:23:09 263:1
15:14:57 255:15	15:17:12 257:12	15:19:06 259:9	15:21:16 261:5	15:23:14 263:2
15:15:01 255:16	15:17:13 257:13	15:19:10 259:10	15:21:18 261:6	15:23:16 263:3,4
15:15:04 255:17	15:17:16 257:14	15:19:14 259:11	15:21:22 261:7	263:5,6
15:15:07 255:18	15:17:19 257:15	15:19:17 259:12	15:21:24 261:8	15:23:20 263:7
15:15:11 255:19	15:17:24 257:16	15:19:19 259:13	15:21:25 261:9	15:23:23 263:8
15:15:13 255:20	15:17:27 257:17	15:19:22 259:14	15:21:28 261:10	15:23:25 263:9
15:15:15 255:21	15:17:29 257:18	15:19:25 259:15	15:21:32 261:11	15:23:27 263:10
15:15:18 255:22	15:17:31 257:19	15:19:28 259:16	15:21:35 261:12	15:23:31 263:11
15:15:20 255:23	15:17:33 257:20	15:19:31 259:17	15:21:37 261:13	15:23:33 263:12
15:15:22 255:24	15:17:35 257:21	15:19:32 259:18	15:21:41 261:14	15:23:34 263:13
15:15:25 255:25	15:17:37 257:22	15:19:36 259:19	15:21:44 261:15	15:23:36 263:14
15:15:27 256:1	15:17:38 257:23	15:19:38 259:20	15:21:48 261:16	15:23:37 263:15
15:15:31 256:2	15:17:39 257:24	15:19:43 259:21	15:21:50 261:17	15:23:38 263:16
15:15:33 256:3	15:17:42 257:25	15:19:47 259:22	15:21:53 261:18	15:23:39 263:17
15:15:34 256:4	15:17:43 258:1,2	15:19:49 259:23	15:21:56 261:19	15:23:40 263:18
15:15:40 256:5	15:17:47 258:3	15:19:51 259:24	15:21:59 261:20	15:23:41 263:19
15:15:43 256:6	15:17:49 258:4	15:19:52 259:25	15:22:03 261:21	15:23:42 263:20
15:15:47 256:7	15:17:53 258:5	15:19:54 260:1	15:22:06 261:22	15:23:45 263:21
15:15:51 256:8	15:17:58 258:6	15:19:56 260:2	15:22:08 261:23	15:23:46 263:22
15:15:56 256:9	15:18:00 258:7	15:20:02 260:3	15:22:09 261:24	15:23:47 263:23
15:16:00 256:10	15:18:02 258:8	15:20:03 260:4	261:25	15:23:48 263:24
15:16:03 256:11	15:18:04 258:9	15:20:04 260:5	15:22:11 262:1	263:25 264:1
15:16:07 256:12	15:18:08 258:10	15:20:05 260:6	15:22:13 262:2	15:23:49 264:2
15:16:10 256:13	15:18:10 258:11	15:20:09 260:7	15:22:14 262:3	15:23:51 264:3
15:16:15 256:14	15:18:14 258:12	15:20:14 260:8	15:22:17 262:4	15:23:54 264:4
15:16:17 256:15	15:18:16 258:13	15:20:18 260:9	15:22:23 262:5	15:23:56 264:5
15:16:21 256:16	15:18:18 258:14	15:20:20 260:10	15:22:26 262:6	15:23:58 264:6
15:16:22 256:17	258:15	15:20:21 260:11	15:22:30 262:7,8	15:24:01 264:7

15:24:06 264:8	15:38:07 266:5	268:1	15:42:15 269:22	15:44:59 271:19
15:24:08 264:9	15:38:09 266:6	15:39:53 268:2	15:42:19 269:23	15:45:03 271:20
15:24:10 264:10	15:38:10 266:7	15:39:56 268:3	15:42:21 269:24	15:45:08 271:21
15:24:13 264:11	15:38:13 266:8	15:39:59 268:4	15:42:26 269:25	15:45:14 271:22
15:24:15 264:12	15:38:15 266:9	15:40:04 268:5	15:42:27 270:1	15:45:16 271:23
15:24:18 264:13	15:38:16 266:10	15:40:11 268:6	15:42:30 270:2	15:45:20 271:24
15:24:20 264:14	15:38:17 266:11	15:40:16 268:7	15:42:32 270:3	15:45:23 271:25
15:24:24 264:15	15:38:20 266:12	15:40:17 268:8	15:42:36 270:4	15:45:26 272:1
15:24:26 264:16	15:38:21 266:13	15:40:18 268:9	15:42:40 270:5	15:45:28 272:2
15:24:31 264:17	15:38:22 266:14	15:40:21 268:10	15:42:42 270:6	15:45:35 272:3,4
15:24:33 264:18	15:38:23 266:15	15:40:22 268:11	15:42:43 270:7	15:45:37 272:5
15:24:37 264:19	15:38:25 266:16	15:40:23 268:12	15:42:46 270:8,9	15:45:39 272:6
15:24:38 264:20	15:38:33 266:17	15:40:25 268:13	15:42:54 270:10	15:45:41 272:7
15:24:41 264:21	15:38:37 266:18	15:40:29 268:14	15:42:59 270:11	15:45:43 272:8
264:22	15:38:40 266:19	15:40:31 268:15	15:43:04 270:12	15:45:49 272:9
15:24:42 264:23	15:38:43 266:20	15:40:36 268:16	15:43:08 270:13	15:45:51 272:10
15:24:43 264:24	15:38:46 266:21	15:40:40 268:17	15:43:13 270:14	15:45:52 272:11
15:24:47 264:25	15:38:50 266:22	15:40:46 268:18	15:43:15 270:15	15:45:53 272:12
15:24:49 265:1	15:38:52 266:23	15:40:57 268:19	15:43:18 270:16	15:46:00 272:13
15:24:52 265:2	15:38:55 266:24	15:40:59 268:20	15:43:23 270:17	15:46:02 272:14
15:24:53 265:3	15:38:56 266:25	15:41:01 268:21	15:43:26 270:18	15:46:05 272:15
15:24:56 265:4	15:38:58 267:1	15:41:02 268:22	15:43:32 270:19	15:46:07 272:16
15:24:59 265:5	15:38:59 267:2	15:41:03 268:23	15:43:42 270:20	15:46:11 272:17
15:25:02 265:6	15:39:02 267:3	15:41:07 268:24	15:43:50 270:21	15:46:13 272:18
15:25:06 265:7,8	15:39:05 267:4	15:41:09 268:25	15:43:55 270:22	15:46:18 272:19
15:25:11 265:9	15:39:11 267:5	15:41:11 269:1	15:43:58 270:23	15:46:23 272:20
15:25:14 265:10	15:39:21 267:6	15:41:13 269:2	15:44:01 270:24	15:46:26 272:21
15:25:15 265:11	15:39:22 267:7	15:41:15 269:3	15:44:02 270:25	15:46:30 272:22
15:25:18 265:12	15:39:23 267:8	15:41:17 269:4	15:44:05 271:1	15:46:32 272:23
15:25:19 265:13	15:39:29 267:9	15:41:19 269:5	15:44:15 271:2	15:46:34 272:24
15:25:20 265:14	15:39:31 267:10	15:41:20 269:6	15:44:17 271:3	272:25
15:25:22 265:15	15:39:32 267:11	15:41:26 269:7	15:44:20 271:4	15:46:39 273:1
15:25:27 265:16	15:39:33 267:12	15:41:27 269:8	15:44:22 271:5	15:46:43 273:2
15:25:28 265:17	15:39:34 267:13	15:41:29 269:9	15:44:25 271:6	15:46:51 273:3
15:25:29 265:18	15:39:35 267:14	15:41:35 269:10	15:44:26 271:7	15:46:53 273:4
15:25:30 265:19	15:39:36 267:15	15:41:36 269:11	15:44:27 271:8	15:46:57 273:5
265:20	15:39:39 267:16	15:41:40 269:12	15:44:29 271:9	15:46:58 273:6
15:25:35 265:21	15:39:40 267:17	15:41:43 269:13	15:44:32 271:10	15:47:03 273:7
15:25:38 265:22	15:39:42 267:18	15:41:48 269:14	15:44:35 271:11	15:47:05 273:8
15:25:45 265:23	15:39:43 267:19	15:41:50 269:15	15:44:36 271:12	15:47:06 273:9
15:25:50 265:24	15:39:44 267:20	15:41:54 269:16	15:44:38 271:13	15:47:07 273:10
265:25	15:39:45 267:21	15:42:00 269:17	15:44:41 271:14	15:47:08 273:11
15:37:59 266:1	15:39:46 267:22	269:18	15:44:44 271:15	15:47:09 273:12
15:38:00 266:2	15:39:48 267:23	15:42:07 269:19	15:44:46 271:16	15:47:11 273:13
15:38:04 266:3	15:39:49 267:24	15:42:09 269:20	15:44:53 271:17	15:47:15 273:14
15:38:06 266:4	15:39:51 267:25	15:42:11 269:21	15:44:56 271:18	15:47:17 273:15

15:47:19 273:16	15:48:55 275:14	15:50:11 277:12	15:51:47 279:9	15:53:53 281:8
15:47:21 273:17	15:48:57 275:15	15:50:12 277:13	15:51:51 279:10	15:53:55 281:9
15:47:26 273:18	275:16	15:50:13 277:14	15:51:54 279:11	15:53:56 281:10
15:47:29 273:19	15:48:59 275:17	15:50:15 277:15	15:51:57 279:12	15:53:59 281:11
15:47:32 273:20	15:49:00 275:18	15:50:16 277:16	15:52:02 279:13	15:54:04 281:12
15:47:35 273:21	15:49:01 275:19	15:50:19 277:17	15:52:04 279:14	15:54:05 281:13
15:47:36 273:22	15:49:03 275:20	277:18	15:52:06 279:15	15:54:06 281:14
15:47:37 273:23	15:49:05 275:21	15:50:20 277:19	15:52:09 279:16	15:54:09 281:15
15:47:41 273:24	15:49:07 275:22	15:50:21 277:20	15:52:11 279:17	15:54:10 281:16
15:47:44 273:25	15:49:08 275:23	15:50:22 277:21	15:52:12 279:18	15:54:11 281:17
15:47:51 274:1	275:24	15:50:25 277:22	15:52:14 279:19	15:54:15 281:18
15:47:52 274:2	15:49:10 275:25	15:50:28 277:23	15:52:15 279:20	15:54:17 281:19
15:47:55 274:3,4	15:49:11 276:1	15:50:30 277:24	15:52:18 279:21	15:54:21 281:20
15:47:57 274:5,6	15:49:12 276:2	15:50:32 277:25	15:52:19 279:22	15:54:24 281:21
15:48:00 274:7	15:49:14 276:3	15:50:34 278:1	15:52:24 279:23	15:54:25 281:22
15:48:01 274:8	15:49:16 276:4	15:50:37 278:2	15:52:29 279:24	15:54:27 281:23
15:48:02 274:9	15:49:17 276:5,6	15:50:44 278:3	15:52:33 279:25	15:54:30 281:24
15:48:03 274:10	15:49:19 276:7	15:50:46 278:4	15:52:35 280:1	15:54:34 281:25
15:48:04 274:11	15:49:24 276:8	15:50:47 278:5	15:52:37 280:2	15:54:42 282:1
15:48:05 274:12	15:49:27 276:9	15:50:52 278:6,7	15:52:42 280:3	15:54:44 282:2
15:48:07 274:13	15:49:31 276:10	15:50:54 278:8	15:52:43 280:4,5	15:54:45 282:3
15:48:09 274:14	15:49:33 276:11	15:50:55 278:9	15:52:45 280:6	15:54:46 282:4
15:48:10 274:15	15:49:37 276:12	15:50:57 278:10	15:52:48 280:7	15:54:48 282:5
15:48:11 274:16	15:49:40 276:13	15:51:00 278:11	15:52:50 280:8	15:54:51 282:6
15:48:13 274:17	15:49:42 276:14	278:12	15:52:54 280:9	15:54:52 282:7
15:48:15 274:18	15:49:43 276:15	15:51:02 278:13	15:52:57 280:10	15:54:53 282:8
15:48:16 274:19	15:49:45 276:16	15:51:05 278:14	280:11	15:54:58 282:9
15:48:17 274:20	15:49:46 276:17	15:51:07 278:15	15:52:59 280:12	15:54:59 282:10
15:48:19 274:21	276:18	15:51:09 278:16	15:53:01 280:13	15:55:00 282:11
15:48:21 274:22	15:49:48 276:19	15:51:10 278:17	15:53:03 280:14	15:55:02 282:12
15:48:23 274:23	15:49:49 276:20	15:51:12 278:18	15:53:04 280:15	15:55:04 282:13
15:48:28 274:24	15:49:50 276:21	15:51:13 278:19	15:53:05 280:16	15:55:05 282:14
15:48:29 274:25	15:49:52 276:22	15:51:14 278:20	15:53:08 280:17	15:55:07 282:15
15:48:30 275:1	276:23	278:21	15:53:09 280:18	15:55:08 282:16
15:48:37 275:2	15:49:54 276:24	15:51:15 278:22	280:19	15:55:10 282:17
15:48:40 275:3	15:49:55 276:25	15:51:17 278:23	15:53:12 280:20	15:55:11 282:18
15:48:41 275:4	277:1	15:51:20 278:24	15:53:17 280:21	15:55:13 282:19
15:48:42 275:5	15:49:58 277:2	278:25	15:53:22 280:22	15:55:17 282:20
15:48:46 275:6	15:50:00 277:3	15:51:21 279:1	15:53:24 280:23	282:21
15:48:47 275:7	15:50:01 277:4	15:51:22 279:2	15:53:31 280:24	15:55:19 282:22
15:48:48 275:8	15:50:03 277:5	15:51:24 279:3	15:53:34 280:25	15:55:20 282:23
15:48:49 275:9	15:50:04 277:6	15:51:25 279:4	15:53:43 281:1,2	15:55:21 282:24
15:48:51 275:10	15:50:05 277:7,8	15:51:30 279:5	15:53:45 281:3	15:55:24 282:25
15:48:52 275:11	15:50:07 277:9	15:51:32 279:6	15:53:47 281:4	15:55:25 283:1
15:48:53 275:12	277:10	15:51:35 279:7	15:53:49 281:5,6	15:55:30 283:2
15:48:54 275:13	15:50:10 277:11	15:51:41 279:8	15:53:51 281:7	15:55:35 283:3

15:55:38 283:4	285:1	15:58:52 286:23	16:01:11 288:17	290:16
15:55:39 283:5	15:57:16 285:2	15:58:56 286:24	16:01:19 288:18	16:03:17 290:17
15:55:43 283:6	15:57:17 285:3	286:25	16:01:20 288:19	16:03:20 290:18
15:55:45 283:7	15:57:19 285:4	15:58:57 287:1,2	16:01:25 288:20	16:03:26 290:19
15:55:47 283:8,9	15:57:21 285:5	15:58:59 287:3	16:01:27 288:21	16:03:28 290:20
283:10	15:57:22 285:6	15:59:01 287:4	16:01:31 288:22	16:03:31 290:21
15:55:50 283:11	15:57:23 285:7	15:59:02 287:5	16:01:33 288:23	16:03:37 290:22
15:55:52 283:12	15:57:29 285:8	15:59:03 287:6	16:01:35 288:24	16:03:41 290:23
15:55:54 283:13	15:57:31 285:9	15:59:04 287:7	288:25	16:03:44 290:24
15:55:56 283:14	15:57:36 285:10	15:59:06 287:8	16:01:36 289:1	16:03:50 290:25
15:55:59 283:15	15:57:37 285:11	15:59:10 287:9	16:01:38 289:2	16:03:53 291:1
15:56:01 283:16	15:57:42 285:12	15:59:12 287:10	16:01:41 289:3	16:03:58 291:2,3
15:56:04 283:17	15:57:43 285:13	15:59:14 287:11	16:01:46 289:4,5	16:03:59 291:4
15:56:06 283:18	15:57:47 285:14	15:59:18 287:12	16:01:49 289:6	16:04:05 291:5
15:56:10 283:19	15:57:50 285:15	15:59:24 287:13	16:01:52 289:7	16:04:17 291:6
15:56:13 283:20	15:57:51 285:16	15:59:29 287:14	16:01:55 289:8	16:04:19 291:7,8
15:56:15 283:21	15:57:52 285:17	15:59:42 287:15	16:01:56 289:9	291:9
15:56:17 283:22	15:57:53 285:18	15:59:45 287:16	16:01:58 289:10	16:04:20 291:10
283:23	15:57:54 285:19	15:59:49 287:17	16:01:59 289:11	16:04:26 291:11
15:56:20 283:24	15:57:56 285:20	287:18	16:02:00 289:12	16:04:30 291:12
15:56:21 283:25	15:57:59 285:21	15:59:51 287:19	16:02:11 289:13	16:04:34 291:13
15:56:23 284:1	285:22	15:59:54 287:20	16:02:17 289:14	16:04:36 291:14
15:56:24 284:2	15:58:03 285:23	15:59:56 287:21	16:02:19 289:15	16:04:43 291:15
15:56:25 284:3	15:58:05 285:24	157 3:9,10	16:02:21 289:16	16:04:48 291:16
15:56:27 284:4	15:58:08 285:25	16 71:11,14,19	16:02:24 289:17	16:04:57 291:17
15:56:32 284:5	15:58:12 286:1	83:22 84:11,16	16:02:26 289:18	16:05:03 291:18
15:56:35 284:6	15:58:15 286:2	105:18 220:15	16:02:32 289:19	16:05:06 291:19
15:56:40 284:7	15:58:18 286:3	16:00:06 287:22	16:02:40 289:20	16:05:11 291:20
15:56:42 284:8	15:58:19 286:4	16:00:08 287:23	16:02:42 289:21	16:05:15 291:21
15:56:44 284:9	15:58:21 286:5	16:00:11 287:24	16:02:46 289:22	16:05:17 291:22
15:56:45 284:10	15:58:24 286:6	16:00:14 287:25	16:02:48 289:23	16:05:19 291:23
15:56:49 284:11	15:58:27 286:7	16:00:15 288:1	16:02:50 289:24	16:05:20 291:24
15:56:51 284:12	15:58:28 286:8	16:00:19 288:2	16:02:51 289:25	16:05:24 291:25
15:56:53 284:13	15:58:35 286:9	16:00:26 288:3	16:02:53 290:1	16:05:28 292:1
15:56:54 284:14	15:58:38 286:10	16:00:29 288:4,5	16:02:57 290:2,3	16:05:31 292:2
15:56:56 284:15	286:11,12	16:00:32 288:6	16:03:01 290:4,5	16:05:34 292:3
15:56:57 284:16	15:58:39 286:13	16:00:37 288:7	290:6	16:05:40 292:4
15:56:58 284:17	15:58:40 286:14	16:00:40 288:8	16:03:03 290:7	16:05:42 292:5
15:57:00 284:18	15:58:41 286:15	16:00:41 288:9	16:03:04 290:8	16:05:43 292:6
15:57:02 284:19	15:58:42 286:16	16:00:45 288:10	16:03:06 290:9	16:05:44 292:7
15:57:03 284:20	15:58:44 286:17	16:00:52 288:11	16:03:07 290:10	16:05:57 292:8
15:57:05 284:21	15:58:46 286:18	16:00:54 288:12	16:03:09 290:11	16:05:58 292:9
284:22	15:58:47 286:19	16:00:57 288:13	16:03:10 290:12	16:05:59 292:10
15:57:09 284:23	15:58:48 286:20	16:00:59 288:14	16:03:12 290:13	16:06:02 292:11
15:57:11 284:24	15:58:49 286:21	16:01:04 288:15	290:14	16:06:07 292:12
15:57:14 284:25	15:58:50 286:22	16:01:05 288:16	16:03:14 290:15	16:06:11 292:13

16:06:14 292:14	16:08:32 294:11	16:10:49 296:7	16:12:22 298:3	16:14:55 299:25
16:06:17 292:15	16:08:41 294:12	16:10:53 296:8	16:12:23 298:4	16:14:57 300:1
16:06:29 292:16	294:13	16:10:57 296:9	16:12:25 298:5	16:14:59 300:2
16:06:30 292:17	16:08:45 294:14	16:11:01 296:10	16:12:26 298:6	16:15:01 300:3
16:06:32 292:18	16:08:52 294:15	16:11:05 296:11	16:12:28 298:7	16:15:03 300:4,5
292:19	16:08:54 294:16	16:11:08 296:12	16:12:30 298:8	300:6
16:06:35 292:20	16:08:55 294:17	16:11:10 296:13	16:12:33 298:9	16:15:05 300:7
16:06:36 292:21	16:08:56 294:18	296:14	16:12:37 298:10	16:15:07 300:8,9
16:06:37 292:22	16:08:58 294:19	16:11:12 296:15	16:12:41 298:11	16:15:10 300:10
16:06:39 292:23	16:08:59 294:20	16:11:13 296:16	16:12:44 298:12	16:15:12 300:11
16:06:44 292:24	16:09:02 294:21	16:11:14 296:17	16:12:47 298:13	16:15:13 300:12
16:06:47 292:25	16:09:07 294:22	16:11:16 296:18	16:12:50 298:14	16:15:15 300:13
16:06:48 293:1	16:09:09 294:23	16:11:18 296:19	16:12:54 298:15	16:15:18 300:14
16:06:50 293:2	16:09:11 294:24	16:11:19 296:20	16:12:57 298:16	300:15
16:06:53 293:3	294:25	296:21	16:13:01 298:17	16:15:19 300:16
16:06:58 293:4	16:09:13 295:1	16:11:24 296:22	16:13:05 298:18	16:15:22 300:17
16:07:00 293:5	16:09:19 295:2	296:23	16:13:10 298:19	16:15:24 300:18
16:07:01 293:6	16:09:22 295:3	16:11:26 296:24	16:13:14 298:20	16:15:25 300:19
16:07:06 293:7	16:09:27 295:4	16:11:31 296:25	16:13:18 298:21	16:15:27 300:20
16:07:11 293:8	16:09:34 295:5	16:11:33 297:1	16:13:24 298:22	300:21
16:07:14 293:9	16:09:40 295:6	16:11:37 297:2	16:13:27 298:23	16:15:29 300:22
16:07:17 293:10	16:09:43 295:7	16:11:38 297:3	16:13:31 298:24	16:15:30 300:23
16:07:19 293:11	16:09:47 295:8	16:11:39 297:4	16:13:33 298:25	16:15:31 300:24
16:07:21 293:12	16:09:48 295:9	16:11:40 297:5	16:13:34 299:1	300:25
16:07:23 293:13	16:09:51 295:10	16:11:42 297:6	16:13:38 299:2	16:15:35 301:1
16:07:24 293:14	16:09:56 295:11	16:11:44 297:7	16:13:46 299:3	16:15:40 301:2
16:07:26 293:15	16:10:00 295:12	16:11:46 297:8	16:13:49 299:4	16:15:42 301:3
16:07:31 293:16	16:10:04 295:13	16:11:47 297:9	16:13:52 299:5	16:15:45 301:4
16:07:34 293:17	16:10:06 295:14	16:11:49 297:10	16:13:56 299:6	16:15:50 301:5,6
16:07:38 293:18	16:10:08 295:15	16:11:52 297:11	16:13:58 299:7	16:15:53 301:7,8
16:07:42 293:19	16:10:11 295:16	16:11:54 297:12	16:14:05 299:8	16:15:54 301:9
16:07:45 293:20	16:10:13 295:17	16:11:56 297:13	16:14:09 299:9	16:15:56 301:10
16:07:54 293:21	16:10:15 295:18	16:11:57 297:14	16:14:14 299:10	16:15:58 301:11
16:07:57 293:22	16:10:17 295:19	297:15	16:14:17 299:11	16:16:01 301:12
293:23	16:10:21 295:20	16:11:59 297:16	16:14:26 299:12	16:16:04 301:13
16:07:58 293:24	16:10:24 295:21	16:12:01 297:17	16:14:28 299:13	16:16:05 301:14
16:08:00 293:25	16:10:26 295:22	16:12:02 297:18	16:14:30 299:14	16:16:06 301:15
16:08:02 294:1	16:10:27 295:23	16:12:03 297:19	16:14:33 299:15	16:16:07 301:16
16:08:05 294:2	16:10:29 295:24	16:12:04 297:20	16:14:34 299:16	16:16:09 301:17
16:08:07 294:3	16:10:33 295:25	16:12:09 297:21	16:14:37 299:17	301:18
16:08:08 294:4	16:10:37 296:1	16:12:11 297:22	16:14:40 299:18	16:16:11 301:19
16:08:15 294:5	16:10:39 296:2	16:12:13 297:23	16:14:43 299:19	16:16:12 301:20
16:08:17 294:6	16:10:41 296:3	16:12:16 297:24	16:14:45 299:20	16:16:13 301:21
16:08:22 294:7,8	16:10:45 296:4	16:12:18 297:25	299:21,22	16:16:15 301:22
16:08:25 294:9	16:10:46 296:5	16:12:19 298:1	16:14:49 299:23	16:16:16 301:23
16:08:28 294:10	16:10:47 296:6	16:12:21 298:2	16:14:54 299:24	16:16:17 301:24

16:16:18 301:25	16:17:47 303:25	16:19:23 305:24	16:21:43 307:22	16:23:41 309:18
16:16:20 302:1	16:17:49 304:1	16:19:25 305:25	16:21:47 307:23	16:23:44 309:19
16:16:22 302:2	16:17:50 304:2	16:19:26 306:1	16:21:56 307:24	16:23:47 309:20
16:16:23 302:3	16:17:52 304:3,4	16:19:27 306:2	16:21:58 307:25	16:23:54 309:21
16:16:25 302:4	16:17:54 304:5	16:19:29 306:3	16:22:01 308:1	16:23:59 309:22
16:16:26 302:5	16:17:56 304:6	16:19:32 306:4	16:22:11 308:2	16:24:05 309:23
16:16:29 302:6,7	16:17:57 304:7,8	16:19:34 306:5	16:22:12 308:3	16:24:06 309:24
16:16:31 302:8,9	16:17:58 304:9	16:19:37 306:6,7	16:22:13 308:4	16:24:07 309:25
16:16:33 302:10	304:10	16:19:42 306:8	16:22:15 308:5	16:24:08 310:1
16:16:35 302:11	16:18:01 304:11	16:19:46 306:9	16:22:16 308:6	16:24:14 310:2
16:16:38 302:12	16:18:02 304:12	16:19:49 306:10	16:22:18 308:7	16:24:17 310:3
16:16:41 302:13	16:18:04 304:13	16:19:51 306:11	16:22:19 308:8	16:24:19 310:4
16:16:42 302:14	16:18:06 304:14	16:19:54 306:12	16:22:21 308:9	16:24:24 310:5
16:16:44 302:15	16:18:08 304:15	16:20:00 306:13	308:10	16:24:26 310:6
16:16:45 302:16	16:18:10 304:16	16:20:12 306:14	16:22:23 308:11	16:24:27 310:7
16:16:47 302:17	16:18:11 304:17	16:20:22 306:15	16:22:25 308:12	16:24:33 310:8
16:16:49 302:18	16:18:12 304:18	16:20:28 306:16	16:22:26 308:13	16:24:45 310:9
302:19	16:18:13 304:19	16:20:32 306:17	16:22:27 308:14	16:24:48 310:10
16:16:52 302:20	16:18:14 304:20	16:20:36 306:18	16:22:30 308:15	16:24:49 310:11
16:16:53 302:21	16:18:15 304:21	16:20:37 306:19	308:16	16:24:52 310:12
16:16:54 302:22	16:18:16 304:22	16:20:39 306:20	16:22:32 308:17	16:24:55 310:13
16:16:55 302:23	16:18:19 304:23	16:20:41 306:21	16:22:33 308:18	16:24:56 310:14
16:16:59 302:24	16:18:20 304:24	16:20:45 306:22	16:22:34 308:19	16:24:58 310:15
302:25	16:18:21 304:25	16:20:47 306:23	308:20	16:25:02 310:16
16:17:03 303:1	16:18:23 305:1	16:20:49 306:24	16:22:38 308:21	16:25:06 310:17
16:17:09 303:2	16:18:24 305:2,3	16:20:50 306:25	16:22:40 308:22	16:25:08 310:18
16:17:11 303:3	16:18:27 305:4	16:20:51 307:1	16:22:43 308:23	16:25:14 310:19
16:17:12 303:4	16:18:31 305:5	16:20:53 307:2	16:22:47 308:24	16:25:19 310:20
16:17:13 303:5	16:18:38 305:6	16:20:54 307:3	16:22:48 308:25	310:21
16:17:17 303:6	16:18:42 305:7	16:20:56 307:4,5	16:22:49 309:1	16:25:21 310:22
16:17:22 303:7	16:18:48 305:8	16:20:58 307:6	16:22:53 309:2	16:25:25 310:23
16:17:24 303:8,9	16:18:55 305:9	16:21:00 307:7	16:22:55 309:3	16:25:33 310:24
16:17:27 303:10	16:18:56 305:10	16:21:02 307:8	16:22:58 309:4	16:25:35 310:25
16:17:29 303:11	16:18:57 305:11	16:21:03 307:9	16:22:59 309:5	16:25:37 311:1
16:17:30 303:12	16:19:00 305:12	16:21:04 307:10	16:23:00 309:6	16:25:41 311:2
16:17:31 303:13	16:19:02 305:13	307:11	16:23:02 309:7	16:25:47 311:3,4
303:14,15	16:19:04 305:14	16:21:05 307:12	16:23:05 309:8	16:25:53 311:5
16:17:35 303:16	16:19:05 305:15	16:21:08 307:13	16:23:09 309:9	16:25:55 311:6
16:17:37 303:17	16:19:06 305:16	16:21:10 307:14	16:23:11 309:10	16:26:00 311:7
16:17:38 303:18	16:19:07 305:17	16:21:13 307:15	16:23:15 309:11	16:26:04 311:8
303:19	16:19:08 305:18	16:21:18 307:16	16:23:19 309:12	16:26:05 311:9
16:17:41 303:20	16:19:10 305:19	16:21:25 307:17	16:23:21 309:13	16:26:06 311:10
16:17:42 303:21	16:19:13 305:20	16:21:30 307:18	16:23:24 309:14	16:26:08 311:11
16:17:43 303:22	16:19:16 305:21	16:21:32 307:19	16:23:26 309:15	16:26:10 311:12
16:17:45 303:23	16:19:18 305:22	16:21:38 307:20	16:23:30 309:16	16:26:11 311:13
303:24	16:19:20 305:23	16:21:41 307:21	16:23:35 309:17	16:26:13 311:14

16:26:14 311:15	16:27:31 313:13	16:29:35 315:10	16:31:45 317:7	16:33:40 319:4
16:26:15 311:16	16:27:32 313:14	16:29:40 315:11	16:31:48 317:8	16:33:45 319:5
16:26:17 311:17	313:15	16:29:43 315:12	16:31:52 317:9	16:33:48 319:6
311:18	16:27:35 313:16	16:29:45 315:13	16:31:55 317:10	16:33:50 319:7
16:26:22 311:19	16:27:36 313:17	16:29:48 315:14	16:31:56 317:11	16:33:52 319:8
16:26:24 311:20	16:27:38 313:18	16:29:50 315:15	16:32:02 317:12	16:33:57 319:9
16:26:28 311:21	16:27:39 313:19	16:29:55 315:16	16:32:07 317:13	16:33:59 319:10
16:26:31 311:22	16:27:56 313:20	16:29:57 315:17	16:32:12 317:14	16:34:02 319:11
16:26:34 311:23	16:27:57 313:21	16:30:05 315:18	16:32:14 317:15	16:34:05 319:12
16:26:36 311:24	16:28:01 313:22	16:30:08 315:19	16:32:19 317:16	16:34:09 319:13
311:25	16:28:04 313:23	16:30:11 315:20	16:32:23 317:17	16:34:14 319:14
16:26:39 312:1	16:28:09 313:24	16:30:15 315:21	16:32:25 317:18	16:34:15 319:15
16:26:41 312:2	16:28:13 313:25	16:30:20 315:22	16:32:29 317:19	16:34:18 319:16
16:26:42 312:3	16:28:14 314:1	16:30:24 315:23	16:32:32 317:20	16:34:22 319:17
16:26:44 312:4	16:28:16 314:2	16:30:25 315:24	16:32:34 317:21	16:34:25 319:18
16:26:45 312:5,6	16:28:20 314:3	16:30:30 315:25	16:32:35 317:22	16:34:27 319:19
16:26:46 312:7,8	16:28:23 314:4,5	16:30:32 316:1	16:32:36 317:23	16:34:30 319:20
16:26:47 312:9	16:28:24 314:6	16:30:33 316:2	16:32:37 317:24	16:34:32 319:21
16:26:49 312:10	16:28:25 314:7	16:30:36 316:3	16:32:39 317:25	319:22
312:11	16:28:27 314:8	16:30:40 316:4	16:32:40 318:1	16:34:34 319:23
16:26:51 312:12	16:28:28 314:9	16:30:42 316:5	16:32:42 318:2	16:34:36 319:24
16:26:53 312:13	16:28:30 314:10	16:30:44 316:6	16:32:43 318:3	16:34:37 319:25
16:26:54 312:14	314:11	16:30:47 316:7	16:32:44 318:4	16:34:38 320:1,2
312:15	16:28:31 314:12	16:30:49 316:8,9	16:32:45 318:5,6	16:34:39 320:3
16:26:55 312:16	16:28:34 314:13	16:30:50 316:10	16:32:46 318:7	16:34:41 320:4,5
16:26:56 312:17	16:28:35 314:14	16:30:53 316:11	16:32:47 318:8	16:34:42 320:6,7
16:26:58 312:18	16:28:37 314:15	316:12	16:32:48 318:9	16:34:45 320:8
16:26:59 312:19	16:28:38 314:16	16:30:54 316:13	16:32:49 318:10	16:34:46 320:9
16:27:01 312:20	16:28:40 314:17	16:30:55 316:14	16:32:50 318:11	16:34:49 320:10
16:27:02 312:21	16:28:41 314:18	16:30:59 316:15	16:32:51 318:12	16:34:50 320:11
16:27:04 312:22	16:28:42 314:19	16:31:00 316:16	16:32:55 318:13	16:34:53 320:12
16:27:06 312:23	16:28:43 314:20	316:17	16:32:56 318:14	16:34:54 320:13
312:24	314:21	16:31:01 316:18	318:15	16:34:55 320:14
16:27:07 312:25	16:28:45 314:22	16:31:03 316:19	16:32:58 318:16	16:34:56 320:15
16:27:09 313:1	16:28:49 314:23	16:31:04 316:20	16:32:59 318:17	320:16
16:27:12 313:2	16:28:51 314:24	16:31:05 316:21	318:18	16:34:58 320:17
16:27:14 313:3	16:28:57 314:25	316:22	16:33:00 318:19	16:35:02 320:18
16:27:16 313:4	16:29:05 315:1	16:31:09 316:23	16:33:02 318:20	16:35:06 320:19
16:27:18 313:5	16:29:10 315:2	16:31:18 316:24	16:33:05 318:21	16:35:08 320:20
16:27:20 313:6	16:29:14 315:3	16:31:21 316:25	16:33:13 318:22	16:35:11 320:21
16:27:21 313:7	16:29:17 315:4	16:31:31 317:1	16:33:17 318:23	16:35:13 320:22
16:27:22 313:8	16:29:20 315:5	16:31:33 317:2	16:33:20 318:24	16:35:18 320:23
16:27:24 313:9	16:29:24 315:6	16:31:34 317:3	16:33:22 318:25	16:35:20 320:24
16:27:25 313:10	16:29:25 315:7	16:31:38 317:4	16:33:26 319:1	16:35:25 320:25
16:27:28 313:11	16:29:27 315:8	16:31:42 317:5	16:33:30 319:2	16:35:26 321:1
16:27:29 313:12	16:29:31 315:9	16:31:43 317:6	16:33:39 319:3	16:35:30 321:2

16:35:34 321:3	16:54:13 322:24	324:25	16:57:57 327:9	16:59:05 329:5
16:35:36 321:4	16:54:15 322:25	16:55:52 325:1	16:58:00 327:10	16:59:09 329:6
16:35:45 321:5	16:54:18 323:1	16:55:54 325:2	16:58:02 327:11	16:59:11 329:7
16:35:52 321:6	16:54:21 323:2	16:55:55 325:3,4	16:58:03 327:12	16:59:23 329:8
16:35:56 321:7	16:54:23 323:3	16:55:57 325:5	16:58:05 327:13	16:59:24 329:9
16:35:59 321:8	16:54:28 323:4	16:55:59 325:6,7	327:14	16:59:30 329:10
16:36:03 321:9	16:54:34 323:5	16:56:00 325:8	16:58:06 327:15	16:59:34 329:11
16:36:09 321:10	16:54:37 323:6	16:56:03 325:9	16:58:08 327:16	16:59:38 329:12
16:36:16 321:11	16:54:42 323:7	16:56:04 325:10	327:17	16:59:40 329:13
16:36:19 321:12	16:54:46 323:8	325:11,12,13	16:58:09 327:18	16:59:42 329:14
16:36:21 321:13	16:54:47 323:9	325:14,15	16:58:10 327:19	16:59:46 329:15
16:36:22 321:14	16:54:49 323:10	16:56:09 325:16	16:58:12 327:20	16:59:47 329:16
16:36:25 321:15	323:11	16:56:12 325:17	327:21	16:59:50 329:17
16:36:29 321:16	16:54:51 323:12	16:56:13 325:18	16:58:13 327:22	16:59:52 329:18
16:36:32 321:17	16:54:55 323:13	16:56:15 325:19	16:58:14 327:23	16:59:55 329:19
16:36:35 321:18	16:54:57 323:14	325:20	16:58:15 327:24	16:59:56 329:20
16:36:36 321:19	323:15	16:56:17 325:21	16:58:17 327:25	16:59:59 329:21
16:36:38 321:20	16:54:58 323:16	16:56:18 325:22	16:58:18 328:1	164 3:11
16:36:39 321:21	16:54:59 323:17	325:23	16:58:19 328:2	17 1:10 4:2 6:7
16:36:40 321:22	16:55:01 323:18	16:56:23 325:24	16:58:21 328:3	67:7 105:24
16:36:47 321:23	16:55:02 323:19	325:25 326:1,2	16:58:22 328:4	224:8 335:12
16:52:00 321:24	16:55:04 323:20	326:3,4,5,6,7	16:58:23 328:5	406:24
16:52:26 321:25	16:55:06 323:21	16:56:36 326:8	16:58:24 328:6	17:00:02 329:22
16:53:04 322:1	16:55:07 323:22	16:56:38 326:9	16:58:25 328:7	17:00:05 329:23
16:53:07 322:2	323:23	16:56:39 326:10	16:58:27 328:8	17:00:08 329:24
16:53:09 322:3	16:55:10 323:24	326:11,12,13	16:58:29 328:9	17:00:14 329:25
16:53:10 322:4	323:25 324:1	16:56:44 326:14	328:10	17:00:15 330:1
16:53:14 322:5	16:55:12 324:2	16:56:45 326:15	16:58:30 328:11	17:00:16 330:2
16:53:16 322:6	16:55:14 324:3	16:56:48 326:16	16:58:32 328:12	17:00:22 330:3
16:53:17 322:7	16:55:16 324:4	16:56:51 326:17	16:58:33 328:13	17:00:26 330:4
16:53:19 322:8	16:55:17 324:5,6	16:56:53 326:18	16:58:34 328:14	17:00:29 330:5
16:53:24 322:9	324:7	16:56:57 326:19	16:58:35 328:15	17:00:37 330:6
16:53:29 322:10	16:55:22 324:8,9	16:56:59 326:20	16:58:37 328:16	17:00:41 330:7
16:53:31 322:11	324:10,11,12	16:57:04 326:21	16:58:38 328:17	17:00:44 330:8
16:53:33 322:12	324:13	16:57:10 326:22	16:58:39 328:18	17:00:46 330:9
16:53:34 322:13	16:55:26 324:14	16:57:14 326:23	16:58:41 328:19	17:00:47 330:10
322:14	16:55:28 324:15	16:57:20 326:24	16:58:43 328:20	17:00:50 330:11
16:53:40 322:15	16:55:30 324:16	16:57:23 326:25	16:58:44 328:21	330:12
16:53:43 322:16	16:55:31 324:17	16:57:28 327:1	16:58:45 328:22	17:00:51 330:13
16:53:49 322:17	16:55:32 324:18	16:57:36 327:2	16:58:50 328:23	17:00:52 330:14
16:53:54 322:18	16:55:33 324:19	16:57:38 327:3	16:58:52 328:24	17:00:54 330:15
16:54:00 322:19	16:55:37 324:20	16:57:41 327:4	16:58:54 328:25	17:00:57 330:16
16:54:02 322:20	16:55:40 324:21	16:57:48 327:5	16:58:55 329:1	330:17,18
16:54:07 322:21	16:55:43 324:22	16:57:51 327:6	16:58:58 329:2	17:01:01 330:19
16:54:08 322:22	16:55:47 324:23	16:57:52 327:7	16:58:59 329:3	17:01:03 330:20
16:54:10 322:23	16:55:49 324:24	16:57:53 327:8	16:59:02 329:4	17:01:07 330:21

17:01:10 330:22	17:03:30 332:18	17:06:23 334:15	17:08:21 336:12	17:11:09 338:11
17:01:15 330:23	17:03:32 332:19	17:06:25 334:16	336:13	17:11:13 338:12
17:01:19 330:24	17:03:36 332:20	17:06:27 334:17	17:08:23 336:14	338:13
17:01:25 330:25	17:03:38 332:21	17:06:33 334:18	17:08:27 336:15	17:11:16 338:14
17:01:27 331:1	17:03:39 332:22	17:06:37 334:19	17:08:30 336:16	17:11:22 338:15
17:01:28 331:2	17:03:48 332:23	17:06:42 334:20	17:08:32 336:17	17:11:26 338:16
17:01:29 331:3	17:03:52 332:24	334:21	17:08:33 336:18	17:11:29 338:17
17:01:30 331:4	17:03:53 332:25	17:06:44 334:22	17:08:40 336:19	17:11:32 338:18
17:01:31 331:5	333:1	17:06:47 334:23	17:08:43 336:20	338:19
17:01:33 331:6	17:03:57 333:2	17:06:50 334:24	17:08:53 336:21	17:11:34 338:20
17:01:34 331:7	17:04:02 333:3	17:06:53 334:25	17:08:55 336:22	17:11:36 338:21
17:01:36 331:8	17:04:06 333:4	17:06:57 335:1	336:23	338:22
17:01:40 331:9	17:04:11 333:5	17:06:59 335:2	17:08:56 336:24	17:11:38 338:23
17:01:42 331:10	17:04:12 333:6	17:07:03 335:3	336:25 337:1,2	17:11:39 338:24
17:01:49 331:11	17:04:20 333:7	17:07:05 335:4	337:3	17:11:41 338:25
17:01:51 331:12	17:04:21 333:8	17:07:07 335:5	17:09:00 337:4	17:11:43 339:1
17:01:55 331:13	17:04:24 333:9	17:07:09 335:6	17:09:07 337:5	17:11:44 339:2
17:01:56 331:14	17:04:26 333:10	17:07:12 335:7	17:09:09 337:6	17:11:45 339:3
17:01:57 331:15	17:04:29 333:11	17:07:15 335:8	17:09:11 337:7	17:11:49 339:4,5
17:01:59 331:16	17:04:33 333:12	17:07:20 335:9	17:09:16 337:8	17:11:51 339:6,7
17:02:02 331:17	17:04:36 333:13	17:07:21 335:10	17:09:18 337:9	17:11:53 339:8
17:02:08 331:18	17:04:42 333:14	17:07:22 335:11	17:09:20 337:10	17:11:55 339:9
17:02:12 331:19	17:04:46 333:15	17:07:33 335:12	17:09:22 337:11	17:11:56 339:10
17:02:16 331:20	17:04:50 333:16	17:07:42 335:13	17:09:27 337:12	17:11:57 339:11
17:02:18 331:21	17:04:53 333:17	17:07:45 335:14	17:09:30 337:13	17:11:59 339:12
17:02:21 331:22	17:04:56 333:18	17:07:48 335:15	17:09:33 337:14	17:12:01 339:13
17:02:25 331:23	17:04:58 333:19	17:07:51 335:16	17:09:38 337:15	339:14
17:02:28 331:24	17:05:11 333:20	17:07:52 335:17	17:09:45 337:16	17:12:07 339:15
17:02:31 331:25	17:05:14 333:21	17:07:53 335:18	17:09:46 337:17	17:12:12 339:16
17:02:32 332:1	17:05:18 333:22	17:07:55 335:19	17:09:50 337:18	17:12:15 339:17
17:02:34 332:2	17:05:22 333:23	335:20	17:09:52 337:19	17:12:16 339:18
17:02:41 332:3	17:05:24 333:24	17:07:57 335:21	17:09:55 337:20	17:12:17 339:19
17:02:49 332:4	17:05:27 333:25	17:08:01 335:22	17:09:57 337:21	17:12:19 339:20
17:02:53 332:5	17:05:28 334:1,2	17:08:02 335:23	17:10:04 337:22	17:12:23 339:21
17:02:54 332:6	17:05:29 334:3	335:24	17:10:06 337:23	17:12:39 339:22
17:02:55 332:7	17:05:35 334:4	17:08:04 335:25	17:10:10 337:24	17:12:41 339:23
17:02:59 332:8	17:05:38 334:5	17:08:06 336:1	17:10:11 337:25	17:12:42 339:24
17:03:04 332:9	17:05:41 334:6	17:08:07 336:2	17:10:14 338:1,2	17:12:43 339:25
17:03:05 332:10	17:05:43 334:7	17:08:08 336:3	17:10:27 338:3	340:1
17:03:09 332:11	17:05:47 334:8	17:08:09 336:4,5	17:10:30 338:4	17:12:45 340:2
17:03:10 332:12	17:05:53 334:9	17:08:12 336:6	17:10:37 338:5	17:12:46 340:3,4
17:03:13 332:13	17:05:55 334:10	17:08:14 336:7	17:10:43 338:6	17:12:49 340:5
17:03:17 332:14	17:05:57 334:11	17:08:15 336:8	17:10:46 338:7	17:12:53 340:6
17:03:20 332:15	17:06:04 334:12	17:08:16 336:9	17:10:52 338:8	17:12:57 340:7
17:03:22 332:16	17:06:15 334:13	17:08:18 336:10	17:10:58 338:9	17:13:00 340:8
17:03:26 332:17	17:06:19 334:14	17:08:20 336:11	17:11:02 338:10	17:13:03 340:9

17:13:08 340:10	17:15:11 342:6	17:17:18 344:3	17:19:22 346:2	17:22:48 348:1
17:13:10 340:11	17:15:15 342:7	17:17:20 344:4	17:19:31 346:3	17:22:52 348:2
17:13:14 340:12	17:15:16 342:8	17:17:25 344:5	17:19:33 346:4	17:22:57 348:3
17:13:17 340:13	17:15:17 342:9	17:17:27 344:6	17:19:36 346:5	17:23:02 348:4
17:13:20 340:14	17:15:23 342:10	17:17:31 344:7	17:19:42 346:6,7	17:23:05 348:5
17:13:28 340:15	17:15:24 342:11	17:17:36 344:8	17:19:44 346:8	17:23:10 348:6
17:13:35 340:16	17:15:25 342:12	17:17:37 344:9	17:19:46 346:9	17:23:13 348:7
17:13:47 340:17	17:15:27 342:13	17:17:39 344:10	17:19:49 346:10	17:23:16 348:8
17:13:49 340:18	17:15:29 342:14	17:17:41 344:11	17:19:50 346:11	17:23:18 348:9
17:13:52 340:19	17:15:30 342:15	17:17:43 344:12	17:20:11 346:12	17:23:19 348:10
17:13:58 340:20	17:15:31 342:16	17:17:44 344:13	17:20:21 346:13	348:11
17:14:02 340:21	17:15:32 342:17	17:17:45 344:14	17:20:36 346:14	17:23:21 348:12
17:14:07 340:22	17:15:34 342:18	17:17:46 344:15	17:20:37 346:15	17:23:23 348:13
17:14:11 340:23	17:15:39 342:19	17:17:48 344:16	17:20:42 346:16	17:23:25 348:14
17:14:12 340:24	17:15:40 342:20	17:17:49 344:17	17:20:47 346:17	17:23:26 348:15
17:14:14 340:25	17:15:41 342:21	17:17:51 344:18	17:20:54 346:18	17:23:31 348:16
17:14:16 341:1	17:15:42 342:22	17:17:53 344:19	17:20:57 346:19	17:23:39 348:17
17:14:20 341:2	17:15:45 342:23	17:17:58 344:21	17:20:58 346:20	17:23:43 348:18
17:14:21 341:3	342:24,25	17:18:01 344:22	17:20:59 346:21	17:23:45 348:19
17:14:24 341:4	17:15:47 343:1	17:18:07 344:23	17:21:08 346:23	17:23:48 348:20
17:14:26 341:5	17:15:48 343:2	17:18:08 344:24	17:21:16 346:24	17:23:49 348:21
17:14:27 341:6	17:15:50 343:3	17:18:14 344:25	346:25	17:23:50 348:22
17:14:30 341:7	17:15:51 343:4	17:18:20 345:1	17:21:19 347:1	17:23:51 348:23
17:14:31 341:8	17:15:55 343:5	17:18:26 345:2	17:21:22 347:2,3	17:23:52 348:24
17:14:32 341:9	17:16:05 343:6	17:18:31 345:3	17:21:24 347:4	17:23:54 348:25
17:14:34 341:10	17:16:09 343:7	17:18:34 345:4	17:21:25 347:5	17:23:55 349:1
17:14:38 341:11	17:16:11 343:8	17:18:37 345:5,6	17:21:26 347:6	17:23:57 349:2
17:14:39 341:12	17:16:13 343:9	17:18:40 345:7,8	17:21:29 347:7	17:23:59 349:3
17:14:41 341:13	17:16:23 343:10	17:18:43 345:9	17:21:30 347:8	17:24:03 349:4
341:14	17:16:27 343:11	345:10	17:21:31 347:9	17:24:08 349:5
17:14:44 341:15	17:16:28 343:12	17:18:45 345:11	17:21:35 347:10	17:24:13 349:6
17:14:47 341:16	17:16:30 343:13	17:18:46 345:12	17:21:36 347:11	17:24:18 349:7
17:14:48 341:17	17:16:34 343:14	17:18:47 345:13	17:21:40 347:12	17:24:20 349:8
17:14:49 341:18	17:16:43 343:15	17:18:48 345:14	17:21:44 347:13	17:24:25 349:9
17:14:50 341:19	17:16:51 343:16	17:18:50 345:15	17:21:49 347:14	17:24:27 349:10
17:14:53 341:20	17:16:52 343:17	345:16	17:21:52 347:15	17:24:29 349:11
17:14:55 341:21	17:16:55 343:18	17:18:52 345:17	17:21:55 347:16	17:24:30 349:12
17:14:56 341:22	17:16:57 343:19	17:18:53 345:18	17:22:00 347:17	349:13
341:23	17:17:00 343:20	17:18:54 345:19	17:22:06 347:18	17:24:31 349:14
17:14:58 341:24	17:17:06 343:21	17:18:55 345:20	17:22:10 347:19	17:24:35 349:15
17:14:59 341:25	17:17:07 343:22	17:18:59 345:21	17:22:12 347:20	17:24:41 349:16
17:15:01 342:1	17:17:09 343:23	17:19:01 345:22	17:22:19 347:21	17:24:51 349:17
17:15:02 342:2	17:17:11 343:24	17:19:05 345:23	17:22:29 347:22	17:24:56 349:18
17:15:07 342:3	17:17:13 343:25	17:19:08 345:24	17:22:31 347:23	17:25:00 349:19
17:15:09 342:4	344:1	17:19:11 345:25	17:22:36 347:24	17:25:04 349:20
17:15:10 342:5	17:17:16 344:2	17:19:13 346:1	17:22:40 347:25	17:25:07 349:21

17:25:09 349:22	17:27:47 351:20	17:30:26 353:16	17:32:37 355:12	17:34:59 357:11
17:25:11 349:23	17:27:50 351:21	17:30:28 353:17	17:32:45 355:13	17:35:08 357:12
17:25:14 349:24	17:27:52 351:22	17:30:30 353:18	17:32:50 355:14	357:13
17:25:17 349:25	17:27:53 351:23	17:30:31 353:19	17:32:58 355:15	17:35:12 357:14
17:25:22 350:1	17:27:56 351:24	17:30:32 353:20	17:33:04 355:16	17:35:21 357:15
17:25:26 350:2	17:28:02 351:25	17:30:34 353:21	17:33:09 355:17	17:35:23 357:16
17:25:30 350:3	17:28:06 352:1	17:30:36 353:22	17:33:13 355:18	17:35:25 357:17
17:25:32 350:4	17:28:08 352:2	353:23	17:33:15 355:19	17:35:29 357:18
17:25:35 350:5	17:28:09 352:3	17:30:38 353:24	17:33:17 355:20	17:35:32 357:19
17:25:38 350:6	17:28:12 352:4	17:30:39 353:25	17:33:20 355:21	17:35:42 357:20
17:25:40 350:7	17:28:20 352:5	17:30:41 354:1	17:33:33 355:22	17:35:47 357:21
17:25:42 350:8,9	17:28:24 352:6	17:30:42 354:2	17:33:37 355:23	17:35:49 357:22
17:25:44 350:10	17:28:28 352:7	17:30:44 354:3	17:33:41 355:24	17:35:51 357:23
17:25:45 350:11	17:28:31 352:8	17:30:45 354:4	17:33:42 355:25	17:36:03 357:24
17:25:48 350:12	17:28:32 352:9	17:30:58 354:5	17:33:46 356:1	17:36:05 357:25
17:25:50 350:13	352:10	17:31:01 354:6	17:33:48 356:2,3	17:36:11 358:1
350:14,15	17:28:36 352:11	17:31:05 354:7	17:33:50 356:4	17:36:18 358:2
17:25:51 350:16	352:12	17:31:08 354:8	17:33:51 356:5	17:36:22 358:3
17:25:52 350:17	17:28:39 352:13	17:31:14 354:9	17:33:54 356:6	17:36:25 358:4,5
17:25:54 350:18	17:28:42 352:14	17:31:15 354:10	17:33:56 356:7	17:36:27 358:6
17:25:59 350:19	17:28:49 352:15	17:31:17 354:11	17:33:59 356:8	17:36:28 358:7
17:26:03 350:20	17:28:50 352:16	354:12	17:34:02 356:9	17:36:36 358:8
17:26:06 350:21	17:28:52 352:17	17:31:20 354:13	356:10,11	17:36:39 358:9
17:26:08 350:22	17:28:55 352:18	17:31:22 354:14	17:34:03 356:12	17:36:40 358:10
17:26:10 350:23	17:29:01 352:19	17:31:28 354:15	17:34:05 356:13	17:36:41 358:11
350:24	17:29:07 352:20	17:31:33 354:16	17:34:06 356:14	17:36:43 358:12
17:26:11 350:25	17:29:16 352:21	17:31:34 354:17	17:34:07 356:15	17:36:44 358:13
17:26:13 351:1	17:29:23 352:22	17:31:36 354:18	17:34:09 356:16	17:36:46 358:14
17:26:14 351:2	17:29:27 352:23	17:31:40 354:19	17:34:11 356:17	17:36:47 358:15
17:26:16 351:3	17:29:32 352:24	17:31:42 354:20	17:34:12 356:18	17:36:48 358:16
17:26:17 351:4	17:29:37 352:25	17:31:44 354:21	17:34:13 356:19	17:36:50 358:17
17:26:24 351:5,6	17:29:42 353:1	17:31:48 354:22	17:34:15 356:20	358:18
351:7	17:29:44 353:2	17:31:49 354:23	17:34:16 356:21	17:36:52 358:19
17:26:27 374:23	17:29:48 353:3	17:31:50 354:24	17:34:18 356:22	358:20
17:26:45 351:8	17:29:58 353:4	17:31:53 354:25	17:34:20 356:23	17:36:55 358:21
17:26:49 351:9	17:30:04 353:5	355:1	17:34:21 356:24	17:36:57 358:22
17:26:56 351:10	17:30:07 353:6	17:31:56 355:2	356:25	17:37:05 358:23
17:27:07 351:11	17:30:08 353:7	17:32:02 355:3	17:34:22 357:1	17:37:07 358:24
17:27:10 351:12	17:30:11 353:8	17:32:09 355:4	17:34:23 357:2	17:37:10 358:25
17:27:14 351:13	17:30:12 353:9	17:32:11 355:5	17:34:25 357:3	17:37:11 359:1
17:27:26 351:14	17:30:14 353:10	17:32:19 355:6	17:34:27 357:4,5	17:37:14 359:2
17:27:28 351:15	17:30:16 353:11	17:32:25 355:7	17:34:28 357:6	17:37:18 359:3
17:27:30 351:16	17:30:18 353:12	17:32:26 355:8	17:34:31 357:7	17:37:20 359:4
17:27:34 351:17	17:30:19 353:13	17:32:29 355:9	17:34:52 357:8	17:37:22 359:5
17:27:38 351:18	17:30:23 353:14	17:32:32 355:10	17:34:54 357:9	17:37:26 359:6
17:27:41 351:19	17:30:25 353:15	17:32:34 355:11	17:34:57 357:10	17:37:28 359:7

17:37:31 359:8	17:39:07 361:5	17:41:48 363:3	17:44:11 364:24	17:47:10 366:23
17:37:33 359:9	17:39:08 361:6	17:41:51 363:4	17:44:17 364:25	366:24
17:37:36 359:10	17:39:10 361:7	17:41:54 363:5	17:44:22 365:1	17:47:14 366:25
17:37:38 359:11	17:39:12 361:8	17:41:55 363:6	17:44:25 365:2	17:47:20 367:1
17:37:39 359:12	17:39:13 361:9	17:41:56 363:7	17:44:26 365:3	17:47:25 367:2
17:37:41 359:13	17:39:14 361:10	17:41:58 363:8	17:44:29 365:4	17:47:30 367:3
17:37:42 359:14	17:39:15 361:11	17:42:04 363:9	17:44:33 365:5,6	17:47:34 367:4
17:37:46 359:15	17:39:17 361:12	17:42:07 363:10	365:7	17:47:36 367:5
17:37:48 359:16	17:39:18 361:13	17:42:11 363:11	17:44:41 365:8	17:47:39 367:6
17:37:51 359:17	17:39:20 361:14	17:42:13 363:12	17:44:42 365:9	17:47:43 367:7
17:37:54 359:18	17:39:21 361:15	17:42:16 363:13	17:44:44 365:10	17:47:45 367:8
17:37:56 359:19	17:39:23 361:16	17:42:17 363:14	17:44:48 365:11	17:47:49 367:9
359:20	17:39:25 361:17	17:42:19 363:15	17:45:01 365:12	17:47:51 367:10
17:37:59 359:21	17:39:28 361:18	17:42:22 363:16	17:45:04 365:13	17:47:55 367:11
17:38:02 359:22	17:39:31 361:19	17:42:26 363:17	17:45:06 365:14	17:47:57 367:12
17:38:06 359:23	17:39:32 361:20	17:42:31 363:18	17:45:09 365:15	17:47:58 367:13
17:38:08 359:24	361:21	17:42:34 363:19	17:45:12 365:16	17:48:02 367:14
17:38:10 359:25	17:39:37 361:22	17:42:39 363:20	17:45:15 365:17	17:48:03 367:15
17:38:13 360:1	17:39:41 361:23	17:42:44 363:21	17:45:18 365:18	17:48:05 367:16
17:38:17 360:2	17:39:43 361:24	17:42:47 363:22	17:45:20 365:19	17:48:08 367:17
17:38:18 360:3	17:39:48 361:25	17:42:49 363:23	17:45:22 365:20	17:48:14 367:18
17:38:20 360:4	17:39:53 362:1	17:42:54 363:24	17:45:23 365:21	17:48:17 367:19
17:38:21 360:5	17:40:01 362:2	17:43:01 363:25	17:45:26 365:22	17:48:22 367:20
17:38:23 360:6	17:40:06 362:3	17:43:05 364:1	17:45:27 365:23	17:48:23 367:21
17:38:26 360:7	17:40:09 362:4,5	17:43:06 364:2	17:45:32 365:24	17:48:24 367:22
17:38:30 360:8	17:40:12 362:6	17:43:07 364:3	17:45:38 365:25	17:48:26 367:23
17:38:36 360:9	17:40:13 362:7	17:43:11 364:4	17:45:40 366:1	17:48:29 367:24
17:38:37 360:10	17:40:15 362:8,9	17:43:17 364:5	17:45:44 366:2	17:48:31 367:25
17:38:38 360:11	17:40:18 362:10	17:43:24 364:6	17:45:50 366:3	17:48:32 368:1
17:38:39 360:12	17:40:34 362:11	17:43:31 364:7	17:45:51 366:4	17:48:35 368:2
17:38:41 360:13	17:40:36 362:12	17:43:36 364:8	17:46:11 366:5	17:48:40 368:3
17:38:42 360:14	17:40:41 362:13	17:43:39 364:9	17:46:14 366:6,7	17:48:45 368:4
17:38:43 360:15	17:40:52 362:14	17:43:45 364:10	17:46:16 366:8,9	17:48:51 368:5
17:38:45 360:16	17:40:53 362:15	17:43:50 364:11	17:46:19 366:10	17:48:56 368:6
17:38:46 360:17	17:40:58 362:16	364:12	17:46:21 366:11	17:48:59 368:7
17:38:47 360:18	17:41:03 362:17	17:43:51 364:13	17:46:24 366:12	17:49:05 368:8
360:19	17:41:14 362:18	17:43:52 364:14	17:46:27 366:13	17:49:08 368:9
17:38:48 360:20	17:41:17 362:19	17:43:53 364:15	17:46:30 366:14	17:49:14 368:10
17:38:50 360:21	17:41:24 362:20	17:43:54 364:16	17:46:35 366:15	17:49:16 368:11
17:38:51 360:22	17:41:27 362:21	17:43:56 364:17	17:46:36 366:16	17:49:19 368:12
17:38:54 360:23	17:41:31 362:22	17:43:57 364:18	17:46:39 366:17	17:49:22 368:13
17:38:56 360:24	17:41:35 362:23	17:44:00 364:19	17:46:43 366:18	17:49:25 368:14
17:38:59 360:25	17:41:40 362:24	17:44:01 364:20	366:19	17:49:29 368:15
17:39:02 361:1,2	17:41:43 362:25	17:44:03 364:21	17:46:45 366:20	17:49:31 368:16
17:39:05 361:3	17:41:45 363:1	17:44:04 364:22	17:47:05 366:21	17:49:34 368:17
17:39:06 361:4	17:41:46 363:2	17:44:08 364:23	17:47:08 366:22	17:49:40 368:18

17:49:43 368:19	17:52:30 370:15	17:55:00 372:12	17:57:15 374:8	17:59:38 376:5
17:49:48 368:20	17:52:41 370:16	372:13	17:57:16 374:9	17:59:40 376:6
17:49:55 368:21	17:52:43 370:17	17:55:20 372:14	17:57:17 374:10	17:59:41 376:7
17:49:58 368:22	17:52:46 370:18	17:55:21 372:15	17:57:20 374:11	17:59:43 376:8
17:50:07 368:23	17:52:48 370:19	17:55:24 372:16	17:57:22 374:12	17:59:44 376:9
17:50:12 368:24	17:52:50 370:20	17:55:26 372:17	17:57:24 374:13	17:59:45 376:10
17:50:14 368:25	17:52:52 370:21	17:55:33 372:18	17:57:28 374:14	17:59:54 376:11
17:50:15 369:1	17:52:54 370:22	17:55:37 372:19	17:57:31 374:15	17th 86:11
17:50:20 369:2	17:52:56 370:23	17:55:40 372:20	17:57:35 374:16	18 11:5,13 69:25
17:50:21 369:3	17:52:59 370:24	17:55:43 372:21	17:57:38 374:17	70:2 106:5
17:50:23 369:4	17:53:01 370:25	17:55:44 372:22	17:57:39 374:18	241:17 337:3
17:50:24 369:5	17:53:07 371:1	17:55:45 372:23	17:57:44 374:19	18-month
17:50:28 369:6	17:53:09 371:2	17:55:46 372:24	17:57:50 374:20	255:19
17:50:33 369:7	17:53:18 371:3	17:55:47 372:25	17:57:52 374:21	18:00:01 376:12
17:50:36 369:8	17:53:20 371:4	17:55:50 373:1	17:57:53 374:22	18:00:05 376:13
17:50:38 369:9	17:53:24 371:5	17:55:53 373:2	17:57:58 374:24	18:00:20 376:14
17:50:43 369:10	17:53:27 371:6	17:55:55 373:3	374:25	18:00:26 376:15
17:50:44 369:11	17:53:29 371:7	17:55:58 373:4	17:58:01 375:1	18:00:35 376:16
17:50:46 369:12	17:53:35 371:8	17:55:59 373:5	17:58:02 375:2	18:00:38 376:17
369:13	17:53:37 371:9	17:56:01 373:6	17:58:07 375:3	18:00:39 376:18
17:50:53 369:14	17:53:38 371:10	17:56:03 373:7	17:58:10 375:4	18:00:40 376:19
17:50:59 369:15	17:53:39 371:11	17:56:04 373:8	17:58:12 375:5	18:00:42 376:20
17:51:02 369:16	17:53:48 371:12	17:56:06 373:9	17:58:14 375:6	18:00:43 376:21
17:51:07 369:17	17:53:54 371:13	17:56:08 373:10	17:58:16 375:7	18:00:44 376:22
17:51:17 369:18	17:53:59 371:14	17:56:09 373:11	17:58:20 375:8	18:00:45 376:23
17:51:21 369:19	17:54:05 371:15	17:56:10 373:12	17:58:24 375:9	18:00:47 376:24
17:51:23 369:20	17:54:11 371:16	17:56:11 373:13	17:58:27 375:10	18:00:52 376:25
17:51:26 369:21	17:54:16 371:17	17:56:14 373:14	17:58:30 375:11	18:00:53 377:1
17:51:29 369:22	17:54:18 371:18	17:56:15 373:15	17:58:35 375:12	18:01:01 377:2
17:51:31 369:23	17:54:21 371:19	17:56:19 373:16	17:58:37 375:13	18:01:08 377:3
17:51:35 369:24	17:54:26 371:20	17:56:20 373:17	17:58:38 375:14	18:01:15 377:4
17:51:39 369:25	17:54:27 371:21	373:18	17:58:40 375:15	18:01:16 377:5
17:51:45 370:1	17:54:31 371:22	17:56:33 373:19	17:58:43 375:16	18:01:47 377:6
17:51:53 370:2	17:54:34 371:23	17:56:40 373:20	17:58:46 375:17	18:01:50 377:7
17:51:57 370:3	17:54:35 371:24	17:56:42 373:21	17:58:49 375:18	18:01:55 377:8
17:51:59 370:4	17:54:37 371:25	17:56:46 373:22	17:58:57 375:19	18:01:58 377:9
17:52:02 370:5	17:54:40 372:1,2	17:56:49 373:23	17:59:01 375:20	18:02:01 377:10
17:52:04 370:6	17:54:42 372:3	17:56:52 373:24	17:59:07 375:21	18:02:03 377:11
17:52:06 370:7	17:54:44 372:4	17:56:55 373:25	17:59:08 375:22	18:02:04 377:12
17:52:09 370:8	17:54:46 372:5	17:56:56 374:1	17:59:11 375:23	18:02:10 377:13
17:52:15 370:9	17:54:47 372:6	17:56:58 374:2	17:59:15 375:24	18:02:14 377:14
17:52:20 370:10	17:54:48 372:7	17:57:00 374:3	17:59:18 375:25	18:02:17 377:15
17:52:22 370:11	17:54:51 372:8	17:57:03 374:4	17:59:23 376:1	18:02:29 377:16
17:52:26 370:12	17:54:52 372:9	17:57:06 374:5	17:59:24 376:2	18:02:30 377:17
17:52:27 370:13	17:54:55 372:10	17:57:08 374:6	17:59:30 376:3	18:02:31 377:18
17:52:29 370:14	17:54:58 372:11	17:57:10 374:7	17:59:35 376:4	18:02:37 377:19

18:02:39 377:20	379:15	18:09:34 381:11	383:10	18:22:07 385:6
18:02:40 377:21	18:06:19 379:16	381:12	18:20:19 383:11	18:22:09 385:7
377:22	18:06:21 379:17	18:09:35 381:13	18:20:21 383:12	18:22:10 385:8
18:02:49 382:13	18:06:26 379:18	18:09:37 381:14	18:20:22 383:13	18:22:12 385:9
18:02:51 377:23	18:06:30 379:19	18:09:38 381:15	383:14	18:22:21 385:10
18:02:54 377:24	18:06:33 379:20	18:09:42 381:16	18:20:23 383:15	18:22:24 385:11
18:03:02 377:25	18:06:42 379:21	18:09:44 381:17	18:20:24 383:16	18:22:29 385:12
18:03:07 378:1	18:06:44 379:22	18:09:47 381:18	18:20:25 383:17	18:22:31 385:13
18:03:09 378:2	18:06:49 379:23	18:09:51 381:19	18:20:26 383:18	18:22:34 385:14
18:03:14 378:3	18:06:53 379:24	18:09:53 381:20	18:20:30 383:19	18:22:37 385:15
18:03:15 378:4	18:06:55 379:25	18:09:56 381:21	18:20:32 383:20	18:22:41 385:16
18:03:20 378:5	18:06:57 380:1	18:10:00 381:22	18:20:34 383:21	18:22:44 385:17
18:03:28 378:6	18:07:01 380:2	18:10:05 381:23	18:20:37 383:22	18:22:46 385:18
18:03:32 378:7	18:07:03 380:3	18:10:07 381:24	18:20:38 383:23	18:22:49 385:19
18:03:38 378:8	18:07:09 380:4	18:10:10 381:25	18:20:39 383:24	18:22:50 385:20
18:03:48 378:9	18:07:18 380:5	18:10:13 382:1	18:20:41 383:25	18:22:52 385:21
18:03:56 378:10	18:07:28 380:6	18:10:15 382:2	18:20:42 384:1	18:22:53 385:22
18:04:01 378:11	18:07:33 380:7	18:10:19 382:3	18:20:44 384:2	18:22:55 385:23
18:04:07 378:12	18:07:42 380:8	18:10:22 382:4,5	18:20:47 384:3	18:22:56 385:24
18:04:14 378:13	18:07:48 380:9	18:10:25 382:6	18:20:50 384:4	18:22:57 385:25
18:04:18 378:14	18:07:52 380:10	18:10:26 382:7,8	18:20:53 384:5	18:22:59 386:1
18:04:22 378:15	18:07:58 380:11	18:10:29 382:9	18:20:55 384:6	18:23:00 386:2
18:04:26 378:16	18:08:00 380:12	18:10:32 382:10	18:20:56 384:7	18:23:01 386:3
18:04:32 378:17	18:08:07 380:13	18:10:33 382:11	18:21:01 384:8	18:23:02 386:4
18:04:37 378:18	18:08:15 380:14	18:10:34 382:12	18:21:04 384:9	18:23:03 386:5
18:04:40 378:19	18:08:22 380:15	18:11:00 382:14	18:21:08 384:10	18:23:04 386:6
18:04:41 378:20	18:08:28 380:16	18:19:22 382:15	18:21:10 384:11	18:23:06 386:7
18:04:57 378:21	18:08:31 380:17	18:19:25 382:16	18:21:11 384:12	18:23:08 386:8
18:05:06 378:22	18:08:37 380:18	18:19:27 382:17	18:21:15 384:13	18:23:09 386:9
18:05:09 378:23	18:08:42 380:19	18:19:33 382:18	18:21:16 384:14	18:23:11 386:10
18:05:14 378:24	18:08:49 380:20	18:19:36 382:19	18:21:19 384:15	18:23:13 386:11
18:05:16 378:25	18:08:53 380:21	18:19:40 382:20	18:21:22 384:16	18:23:16 386:12
18:05:17 379:1	18:08:55 380:22	18:19:41 382:21	18:21:25 384:17	18:23:19 386:13
18:05:21 379:2	18:08:56 380:23	18:19:51 382:22	18:21:28 384:18	18:23:21 386:14
18:05:23 379:3	18:09:02 380:24	18:19:54 382:23	18:21:30 384:19	18:23:23 386:15
18:05:31 379:4	18:09:08 380:25	18:19:58 382:24	18:21:32 384:20	18:23:24 386:16
18:05:36 379:5	18:09:13 381:1	18:20:00 382:25	18:21:35 384:21	18:23:31 386:17
18:05:40 379:6	18:09:16 381:2	18:20:01 383:1	18:21:37 384:22	18:23:36 386:18
18:05:48 379:7	18:09:20 381:3	18:20:02 383:2	18:21:40 384:23	18:23:37 386:19
18:05:53 379:8	18:09:21 381:4	18:20:04 383:3	18:21:42 384:24	18:23:40 386:20
18:05:56 379:9	18:09:24 381:5	18:20:07 383:4	18:21:47 384:25	18:23:43 386:21
18:05:59 379:10	18:09:26 381:6	18:20:12 383:5	18:21:51 385:1	18:23:46 386:22
18:06:04 379:11	18:09:29 381:7	18:20:14 383:6	18:21:53 385:2	18:23:48 386:23
18:06:08 379:12	18:09:30 381:8	18:20:15 383:7	18:21:55 385:3	18:23:51 386:24
18:06:12 379:13	18:09:32 381:9	18:20:17 383:8	18:21:56 385:4	18:23:53 386:25
18:06:17 379:14	18:09:33 381:10	18:20:18 383:9	18:21:58 385:5	18:23:56 387:1

18:23:59 387:2	18:26:07 388:23	18:28:36 390:19	392:16	18:31:36 394:14
18:24:01 387:3	18:26:10 388:24	18:28:38 390:20	18:30:07 392:17	18:31:38 394:15
18:24:02 387:4	18:26:12 388:25	18:28:40 390:21	18:30:13 392:18	18:31:40 394:16
18:24:03 387:5	18:26:15 389:1	18:28:42 390:22	392:19	18:31:41 394:17
18:24:05 387:6	18:26:17 389:2	18:28:43 390:23	18:30:18 392:20	18:31:44 394:18
18:24:07 387:7	18:26:19 389:3	18:28:44 390:24	18:30:20 392:21	18:31:46 394:19
18:24:08 387:8	18:26:23 389:4	390:25	18:30:21 392:22	18:31:47 394:20
18:24:10 387:9	18:26:25 389:5	18:28:49 391:1	18:30:22 392:23	18:31:50 394:21
18:24:15 387:10	18:26:28 389:6	18:28:51 391:2	18:30:24 392:24	18:31:55 394:22
18:24:18 387:11	18:26:31 389:7	18:28:52 391:3	18:30:26 392:25	18:31:57 394:23
18:24:21 387:12	18:26:34 389:8	18:28:54 391:4	18:30:28 393:1	18:31:59 394:24
18:24:26 387:13	18:26:40 389:9	18:28:55 391:5	18:30:30 393:2,3	18:32:00 394:25
18:24:29 387:14	18:26:42 389:10	18:28:56 391:6	18:30:32 393:4	18:32:01 395:1
18:24:33 387:15	18:26:44 389:11	18:28:57 391:7	18:30:33 393:5	18:32:02 395:2
18:24:37 387:16	18:26:50 389:12	18:28:59 391:8	18:30:36 393:6	18:32:03 395:3
18:24:42 387:17	18:26:54 389:13	18:29:00 391:9	18:30:40 393:7	18:32:05 395:4,5
18:24:44 387:18	18:26:58 389:14	391:10	18:30:42 393:8	18:32:06 395:6
18:24:47 387:19	18:27:01 389:15	18:29:04 391:11	18:30:43 393:9	18:32:10 395:7
18:24:49 387:20	18:27:04 389:16	18:29:06 391:12	18:30:45 393:10	18:32:13 395:8
18:24:51 387:21	18:27:09 389:17	391:13	18:30:47 393:11	18:32:15 395:9
18:24:57 387:22	18:27:17 389:18	18:29:08 391:14	18:30:48 393:12	18:32:17 395:10
18:24:59 387:23	18:27:20 389:19	18:29:12 391:15	18:30:50 393:13	18:32:18 395:11
18:25:03 387:24	18:27:23 389:20	18:29:14 391:16	393:14	395:12
18:25:05 387:25	18:27:24 389:21	391:17	18:30:52 393:15	18:32:22 395:13
18:25:07 388:1	18:27:28 389:22	18:29:16 391:18	18:30:54 393:16	18:32:25 395:14
18:25:10 388:2	18:27:31 389:23	18:29:20 391:19	18:30:56 393:17	18:32:27 395:15
18:25:14 388:3	18:27:35 389:24	18:29:25 391:20	18:30:58 393:18	18:32:30 395:16
18:25:17 388:4	18:27:38 389:25	18:29:28 391:21	18:31:01 393:19	18:32:32 395:17
18:25:22 388:5	18:27:41 390:1	18:29:30 391:22	18:31:02 393:20	18:32:36 395:18
18:25:25 388:6	18:27:43 390:2	18:29:32 391:23	18:31:03 393:21	18:32:39 395:19
18:25:28 388:7	18:27:45 390:3	391:24	18:31:04 393:22	18:32:41 395:20
18:25:30 388:8	18:27:48 390:4	18:29:35 391:25	393:23	18:32:42 395:21
18:25:32 388:9	18:27:53 390:5	18:29:39 392:1	18:31:08 393:24	18:32:43 395:22
18:25:37 388:10	18:27:56 390:6	18:29:41 392:2	393:25	18:32:44 395:23
18:25:39 388:11	18:28:00 390:7	18:29:42 392:3	18:31:09 394:1	18:32:47 395:24
18:25:41 388:12	18:28:05 390:8	18:29:43 392:4	18:31:13 394:2	18:32:50 395:25
18:25:43 388:13	18:28:09 390:9	18:29:49 392:5,6	18:31:14 394:3	18:32:53 396:1
18:25:46 388:14	18:28:15 390:10	18:29:52 392:7	18:31:16 394:4	18:32:55 396:2
18:25:48 388:15	18:28:16 390:11	18:29:53 392:8	18:31:18 394:5	18:32:56 396:3
18:25:51 388:16	18:28:17 390:12	18:29:55 392:9	18:31:20 394:6	18:32:58 396:4
18:25:53 388:17	390:13	18:29:59 392:10	18:31:24 394:7	18:33:00 396:5
18:25:56 388:18	18:28:19 390:14	18:30:01 392:11	18:31:27 394:8,9	18:33:02 396:6
18:25:58 388:19	18:28:23 390:15	18:30:03 392:12	18:31:29 394:10	18:33:04 396:7
18:26:00 388:20	18:28:29 390:16	392:13	18:31:33 394:11	18:33:06 396:8
18:26:02 388:21	18:28:33 390:17	18:30:05 392:14	394:12	18:33:08 396:9
18:26:05 388:22	18:28:34 390:18	18:30:06 392:15	18:31:35 394:13	18:33:09 396:10

18:33:11 396:11	18:34:58 398:10	18:36:48 400:7	18:38:16 402:7	18:39:54 404:5
18:33:16 396:12	18:35:00 398:11	18:36:49 400:8	18:38:18 402:8	18:39:58 404:6
18:33:18 396:13	18:35:02 398:12	18:36:51 400:9	18:38:22 402:9	18:40:01 404:7
18:33:19 396:14	18:35:05 398:13	18:36:52 400:10	18:38:27 402:10	18:40:06 404:8
18:33:22 396:15	18:35:08 398:14	18:36:53 400:11	18:38:30 402:11	18:40:07 404:9
18:33:25 396:16	18:35:10 398:15	400:12	18:38:33 402:12	18:40:09 404:10
18:33:26 396:17	18:35:13 398:16	18:36:55 400:13	18:38:36 402:13	18:40:11 404:11
18:33:28 396:18	18:35:16 398:17	18:36:57 400:14	18:38:40 402:14	18:40:12 404:12
18:33:30 396:19	18:35:18 398:18	18:36:59 400:15	18:38:43 402:15	18:40:14 404:13
18:33:35 396:20	18:35:20 398:19	18:37:01 400:16	18:38:45 402:16	18:40:16 404:14
18:33:36 396:21	18:35:23 398:20	18:37:04 400:17	18:38:47 402:17	18:40:17 404:15
18:33:37 396:22	18:35:26 398:21	18:37:07 400:18	18:38:50 402:18	18:40:19 404:16
18:33:38 396:23	18:35:28 398:22	18:37:08 400:19	18:38:51 402:19	404:17
18:33:41 396:24	18:35:32 398:23	18:37:11 400:20	402:20	18:40:21 404:18
396:25	398:24	18:37:15 400:21	18:38:53 402:21	18:40:22 404:19
18:33:43 397:1	18:35:36 398:25	18:37:18 400:22	18:38:55 402:22	18:40:24 404:20
18:33:45 397:2,3	18:35:39 399:1	18:37:19 400:23	18:39:02 402:23	18:40:25 404:21
18:33:50 397:4	18:35:41 399:2	18:37:21 400:24	18:39:07 402:24	18:40:26 404:22
18:33:52 397:5	18:35:43 399:3	18:37:23 400:25	18:39:09 402:25	404:23
18:33:53 397:6,7	18:35:45 399:4	18:37:24 401:1,2	18:39:11 403:1	18:40:28 404:24
397:8	18:35:46 399:5	18:37:27 401:3,4	18:39:14 403:2	18:40:29 404:25
18:33:56 397:9	18:35:48 399:6	18:37:30 401:5	18:39:15 403:3	18:40:30 405:1
397:10,11	18:35:52 399:7	18:37:31 401:6	18:39:17 403:4	18:40:36 405:2
18:33:58 397:12	18:35:55 399:8	18:37:33 401:7	18:39:18 403:5	18:40:39 405:3
18:34:01 397:13	18:35:56 399:9	18:37:34 401:8	18:39:20 403:6,7	18:40:40 405:4
18:34:02 397:14	399:10	18:37:36 401:9	18:39:22 403:8	18:40:43 405:5
18:34:04 397:15	18:35:59 399:11	18:37:37 401:10	18:39:26 403:9	18:40:45 405:6
18:34:06 397:16	18:36:02 399:12	401:11,12,13	18:39:28 403:10	18:40:49 405:7
18:34:09 397:17	18:36:04 399:13	18:37:38 401:14	18:39:31 403:11	18:40:51 405:8
18:34:11 397:18	18:36:06 399:14	18:37:40 401:15	403:12	18:40:53 405:9
18:34:13 397:19	18:36:09 399:15	18:37:42 401:16	18:39:34 403:13	18:40:57 405:10
18:34:16 397:20	18:36:11 399:16	18:37:43 401:17	18:39:35 403:14	18:41:00 405:11
18:34:19 397:21	18:36:14 399:17	18:37:44 401:18	403:15	18:41:03 405:12
18:34:21 397:22	18:36:16 399:18	18:37:45 401:19	18:39:37 403:16	18:41:07 405:13
18:34:26 397:23	18:36:21 399:19	18:37:46 401:20	18:39:38 403:17	18:41:10 405:14
18:34:28 397:24	18:36:24 399:20	18:37:48 401:21	403:18	18:41:14 405:15
18:34:30 397:25	18:36:26 399:21	18:37:49 401:22	18:39:39 403:19	18:41:18 405:16
18:34:34 398:1	18:36:27 399:22	18:37:50 401:23	18:39:40 403:20	18:41:21 405:17
18:34:35 398:2	18:36:29 399:23	18:37:52 401:24	18:39:41 403:21	18:41:23 405:18
18:34:36 398:3	18:36:33 399:24	18:37:53 401:25	18:39:43 403:22	18:41:25 405:19
18:34:42 398:4	18:36:36 399:25	402:1	18:39:44 403:23	18:41:29 405:20
18:34:45 398:5	18:36:40 400:1	18:37:55 402:2	18:39:47 403:24	18:41:33 405:21
18:34:47 398:6	18:36:44 400:2	18:38:00 402:3	18:39:49 403:25	18:41:34 405:22
18:34:51 398:7	18:36:45 400:3	18:38:05 402:4	18:39:50 404:1	18:41:38 405:23
18:34:52 398:8	18:36:46 400:4,5	18:38:08 402:5	18:39:51 404:2,3	18:41:40 405:24
18:34:55 398:9	18:36:47 400:6	18:38:13 402:6	18:39:53 404:4	18:41:41 405:25

18:41:44 406:1	18:43:11 407:22	18:45:04 409:18	18:46:47 411:16	18:48:45 413:15
18:41:47 406:2	18:43:14 407:23	18:45:06 409:19	18:46:49 411:17	18:48:47 413:16
18:41:50 406:3	18:43:16 407:24	18:45:08 409:20	18:46:51 411:18	18:48:48 413:17
18:41:53 406:4	18:43:20 407:25	18:45:11 409:21	18:46:52 411:19	18:48:50 413:18
18:41:54 406:5	18:43:22 408:1	18:45:13 409:22	18:46:55 411:20	18:48:53 413:19
18:41:55 406:6	18:43:24 408:2	18:45:17 409:23	411:21,22	18:48:56 413:20
18:41:57 406:7	18:43:25 408:3	409:24	18:47:00 411:23	18:49:00 413:21
18:41:59 406:8	18:43:28 408:4	18:45:18 409:25	18:47:02 411:24	18:49:05 413:22
18:42:01 406:9	18:43:30 408:5	18:45:19 410:1,2	18:47:05 411:25	18:49:08 413:23
18:42:02 406:10	18:43:32 408:6	18:45:21 410:3	18:47:07 412:1	18:49:12 413:24
406:11	18:43:34 408:7	18:45:23 410:4	18:47:11 412:2,3	18:49:14 413:25
18:42:03 406:12	18:43:36 408:8	18:45:27 410:5	18:47:14 412:4	18:49:15 414:1
406:13	18:43:38 408:9	18:45:29 410:6	18:47:16 412:5	18:49:16 414:2
18:42:05 406:14	18:43:41 408:10	18:45:32 410:7	18:47:18 412:6	18:49:19 414:3
406:15	18:43:43 408:11	18:45:35 410:8	18:47:22 412:7	18:49:22 414:4
18:42:08 406:16	18:43:44 408:12	18:45:37 410:9	18:47:25 412:8	18:49:28 414:5
18:42:09 406:17	18:43:47 408:13	18:45:39 410:10	18:47:30 412:9	18:49:29 414:6
18:42:10 406:18	18:43:49 408:14	410:11	18:47:31 412:10	18:49:30 414:7
18:42:11 406:19	18:43:50 408:15	18:45:42 410:12	18:47:35 412:11	18:49:32 414:8
18:42:12 406:20	18:43:54 408:16	18:45:45 410:13	18:47:38 412:12	18:49:35 414:9
18:42:14 406:21	18:43:55 408:17	18:45:47 410:14	412:13	18:49:42 414:10
18:42:16 406:22	18:44:00 408:18	18:45:50 410:15	18:47:42 412:14	414:11
18:42:17 406:23	18:44:04 408:19	18:45:53 410:16	18:47:48 412:15	18:49:43 414:12
18:42:21 406:24	408:20	18:45:56 410:17	18:47:53 412:16	18:49:44 414:13
406:25	18:44:05 408:21	18:45:57 410:18	18:47:55 412:17	18:49:45 414:14
18:42:23 407:1	18:44:08 408:22	18:45:58 410:19	18:47:59 412:18	18:49:47 414:15
18:42:24 407:2	18:44:11 408:23	18:46:01 410:20	412:19	18:49:49 414:16
18:42:26 407:3	18:44:13 408:24	410:21	18:48:01 412:20	18:49:50 414:17
18:42:27 407:4	18:44:19 408:25	18:46:04 410:22	18:48:03 412:21	18:49:52 414:18
18:42:28 407:5	18:44:22 409:1	18:46:08 410:23	412:22	414:19
18:42:29 407:6	18:44:25 409:2	18:46:13 410:24	18:48:04 412:23	18:49:54 414:20
18:42:32 407:7	18:44:27 409:3	18:46:18 410:25	18:48:08 412:24	18:49:55 414:21
18:42:33 407:8	18:44:29 409:4	18:46:20 411:1	18:48:11 412:25	18:49:56 414:22
18:42:34 407:9	18:44:32 409:5	18:46:23 411:2	18:48:14 413:1	18:49:58 414:23
18:42:36 407:10	18:44:35 409:6	18:46:25 411:3	18:48:17 413:2	18:49:59 414:24
18:42:37 407:11	18:44:39 409:7	18:46:29 411:4	18:48:18 413:3	18:50:08 414:25
18:42:39 407:12	18:44:42 409:8	18:46:32 411:5	18:48:19 413:4	18:50:14 415:1
18:42:42 407:13	18:44:43 409:9	18:46:33 411:6,7	18:48:20 413:5,6	18:50:17 415:2
18:42:47 407:14	18:44:44 409:10	18:46:34 411:8	18:48:24 413:7	18:50:18 415:3
18:42:49 407:15	18:44:47 409:11	18:46:37 411:9	18:48:29 413:8	18:50:19 415:4
18:42:50 407:16	18:44:49 409:12	18:46:39 411:10	18:48:33 413:9	18:50:22 415:5
18:42:52 407:17	18:44:52 409:13	18:46:40 411:11	413:10	18:50:23 415:6,7
18:42:57 407:18	18:44:56 409:14	18:46:42 411:12	18:48:35 413:11	18:50:24 415:8
18:43:00 407:19	409:15	411:13	18:48:38 413:12	18:50:25 415:9
18:43:03 407:20	18:44:58 409:16	18:46:45 411:14	18:48:42 413:13	18:50:26 415:10
18:43:07 407:21	18:45:01 409:17	411:15	18:48:44 413:14	18:50:29 415:11

18:50:30 415:12	18:52:10 417:9	18:53:45 419:9	18:55:25 421:5	18:56:49 423:3,4
18:50:32 415:13	18:52:11 417:10	18:53:46 419:10	18:55:28 421:6	18:56:58 423:5
18:50:34 415:14	417:11	18:53:47 419:11	18:55:29 421:7	18:57:01 423:6
18:50:35 415:15	18:52:16 417:12	18:53:48 419:12	18:55:31 421:8	18:57:09 423:7
415:16	18:52:17 417:13	18:53:50 419:13	18:55:34 421:9	18:57:12 423:8
18:50:38 415:17	18:52:21 417:14	18:53:51 419:14	18:55:38 421:10	18:57:14 423:9
18:50:40 415:18	18:52:22 417:15	18:53:54 419:15	421:11	18:57:15 423:10
18:50:44 415:19	18:52:23 417:16	18:53:57 419:16	18:55:39 421:12	18:57:19 423:11
18:50:46 415:20	18:52:24 417:17	18:54:00 419:17	18:55:40 421:13	18:57:21 423:12
18:50:49 415:21	18:52:26 417:18	18:54:03 419:18	18:55:42 421:14	18:57:24 423:13
18:50:51 415:22	18:52:27 417:19	18:54:05 419:19	18:55:43 421:15	18:57:27 423:14
18:50:54 415:23	18:52:30 417:20	18:54:06 419:20	18:55:45 421:16	18:57:31 423:15
18:50:57 415:24	18:52:31 417:21	18:54:10 419:21	18:55:48 421:17	18:57:33 423:16
18:50:58 415:25	417:22,23,24	18:54:12 419:22	18:55:49 421:18	18:57:35 423:17
18:51:03 416:1	417:25 418:1	18:54:14 419:23	18:55:50 421:19	18:57:38 423:18
18:51:06 416:2	18:52:39 418:2	18:54:17 419:24	18:55:52 421:20	18:57:40 423:19
18:51:11 416:3	18:52:43 418:3	419:25	421:21	18:57:43 423:20
18:51:14 416:4	18:52:45 418:4	18:54:20 420:1	18:55:53 421:22	18:57:46 423:21
18:51:16 416:5	18:52:46 418:5	18:54:24 420:2	421:23,24	18:57:47 423:22
18:51:18 416:6	18:52:47 418:6	18:54:26 420:3	18:56:00 421:25	18:57:50 423:23
18:51:19 416:7	18:52:49 418:7	18:54:27 420:4	18:56:01 422:1	18:57:53 423:24
18:51:21 416:8	18:52:51 418:8	18:54:28 420:5	18:56:04 422:2	18:57:56 423:25
18:51:24 416:9	18:52:53 418:9	18:54:29 420:6	18:56:06 422:3	18:57:59 424:1
18:51:29 416:10	18:52:56 418:10	18:54:31 420:7	18:56:08 422:4	18:58:02 424:2
18:51:32 416:11	418:11	18:54:34 420:8	18:56:10 422:5	18:58:06 424:3
18:51:33 416:12	18:52:58 418:12	18:54:36 420:9	18:56:13 422:6	18:58:07 424:4
18:51:35 416:13	18:53:02 418:13	18:54:37 420:10	18:56:16 422:7	18:58:12 424:5
18:51:37 416:14	18:53:03 418:14	18:54:40 420:11	18:56:19 422:8	18:58:15 424:6
18:51:38 416:15	18:53:06 418:15	18:54:42 420:12	18:56:21 422:9	18:58:16 424:7
18:51:40 416:16	18:53:08 418:16	18:54:44 420:13	18:56:22 422:10	18:58:17 424:8
18:51:44 416:17	18:53:09 418:17	18:54:47 420:14	18:56:24 422:11	18:58:20 424:9
416:18	18:53:12 418:18	18:54:51 420:15	422:12,13	18:58:22 424:10
18:51:45 416:19	18:53:13 418:19	18:54:57 420:16	18:56:26 422:14	18:58:24 424:11
18:51:46 416:20	18:53:16 418:20	18:54:59 420:17	18:56:27 422:15	18:58:25 424:12
18:51:48 416:21	18:53:17 418:21	18:55:00 420:18	18:56:28 422:16	18:58:27 424:13
18:51:50 416:22	18:53:19 418:22	420:19	18:56:29 422:17	18:58:29 424:14
18:51:53 416:23	18:53:20 418:23	18:55:02 420:20	18:56:30 422:18	18:58:34 424:15
18:51:55 416:24	18:53:22 418:24	18:55:06 420:21	18:56:31 422:19	18:58:36 424:16
18:51:56 416:25	18:53:26 418:25	18:55:10 420:22	18:56:32 422:20	18:58:37 424:17
18:51:57 417:1,2	18:53:28 419:1,2	18:55:13 420:23	18:56:34 422:21	18:58:38 424:18
18:51:59 417:3	18:53:30 419:3	18:55:15 420:24	18:56:39 422:22	424:19
18:52:01 417:4	18:53:32 419:4	18:55:16 420:25	18:56:40 422:23	18:58:40 424:20
18:52:02 417:5	18:53:34 419:5	18:55:18 421:1	18:56:43 422:24	424:21
18:52:03 417:6	18:53:36 419:6	18:55:20 421:2	18:56:44 422:25	18:58:44 424:22
18:52:06 417:7	18:53:41 419:7	18:55:21 421:3	423:1	18:58:45 424:23
18:52:09 417:8	18:53:42 419:8	18:55:22 421:4	18:56:46 423:2	18:58:48 424:24

18:58:51 424:25 425:1	19:00:27 426:18	19:02:01 428:15	19:03:37 430:14	19:05:21 432:17
18:58:52 425:2	19:00:30 426:19	19:02:03 428:16	19:03:38 430:15	19:05:24 432:18
18:58:54 425:3	19:00:34 426:20	19:02:05 428:17	19:03:40 430:16	19:05:28 432:19
18:58:57 425:4	19:00:36 426:21	19:02:07 428:18	19:03:41 430:17	19:05:32 432:20
18:59:00 425:5,6	19:00:37 426:22	19:02:08 428:19	19:03:42 430:18	19:05:34 432:21
18:59:02 425:7,8	19:00:39 426:23	19:02:10 428:20	19:03:45 430:19	19:05:36 432:22
18:59:04 425:9	19:00:41 426:24	19:02:13 428:21	19:03:46 430:20	19:05:38 432:23
18:59:08 425:10	19:00:42 426:25	19:02:14 428:22	19:03:49 430:21	19:05:41 432:24
18:59:12 425:11	19:00:44 427:1	19:02:15 428:23	19:03:51 430:22	19:05:46 432:25
18:59:16 425:12	19:00:45 427:2	19:02:17 428:24	19:03:53 430:23	19:05:48 433:1
18:59:17 425:13	19:00:47 427:3	428:25	19:03:57 430:24	19:05:50 433:2
18:59:20 425:14	19:00:48 427:4,5	19:02:19 429:1	430:25	19:05:52 433:3
18:59:22 425:15	19:00:50 427:6	19:02:28 429:2	19:04:01 431:1	19:05:55 433:4
18:59:24 425:16	19:00:53 427:7	19:02:29 429:3	19:04:05 431:2	19:05:58 433:5
18:59:27 425:17	19:00:56 427:8	19:02:30 429:4	19:04:07 431:3	19:05:59 433:6
18:59:28 425:18	19:00:58 427:9	19:02:33 429:5	19:04:09 431:4	19:06:00 433:7
425:19	19:01:02 427:10	19:02:35 429:6,7	19:04:10 431:5,6	19:06:02 433:8
18:59:29 425:20	19:01:05 427:11	19:02:39 429:8	19:04:12 431:7	19:06:03 433:9
18:59:32 425:21	19:01:08 427:12	19:02:42 429:9	19:04:14 431:8	19:06:06 433:10
18:59:35 425:22	19:01:09 427:13	19:02:48 429:10	19:04:15 431:9	19:06:08 433:11
18:59:37 425:23	19:01:11 427:14	19:02:51 429:11	19:04:16 431:10	19:06:10 433:12
18:59:39 425:24	19:01:12 427:15	19:02:54 429:12	19:04:17 431:11	19:06:12 433:13
18:59:40 425:25	19:01:14 427:16	19:02:56 429:13	19:04:18 431:12	19:06:16 433:14
18:59:41 426:1	19:01:17 427:17	19:02:59 429:14	19:04:20 431:13	19:06:18 433:15
18:59:46 426:2	19:01:18 427:18	19:03:02 429:15	19:04:21 431:14	19:06:19 433:16
18:59:48 426:3	19:01:21 427:19	19:03:04 429:16	19:04:22 431:15	19:06:21 433:17
18:59:49 426:4	19:01:23 427:20	19:03:05 429:17	19:04:23 431:16	19:06:30 433:18
18:59:52 426:5	19:01:24 427:21	19:03:07 429:18	431:17,18,19	19:06:32 433:19
18:59:54 426:6	19:01:25 427:22	19:03:08 429:19	431:20,21,22	19:06:35 433:20
18:59:56 426:7	19:01:26 427:23	19:03:10 429:20	431:23,24,25	19:06:38 433:21
18:59:57 426:8	19:01:27 427:24	429:21	432:1	19:06:41 433:22
18:59:59 426:9	19:01:31 427:25	19:03:11 429:22	19:04:36 432:2	19:06:42 433:23
18th 6:7	19:01:33 428:1	19:03:12 429:23	19:04:37 432:3	19:06:46 433:24
19 11:11 20:20	19:01:35 428:2	19:03:17 429:24	19:04:39 432:4	19:06:50 433:25
20:23,24,25	19:01:38 428:3	19:03:18 429:25	19:04:42 432:5	19:06:53 434:1
106:9 330:7	19:01:41 428:4	19:03:19 430:1,2	19:04:46 432:6	19:06:55 434:2
383:4	19:01:43 428:5	19:03:21 430:3	19:04:49 432:7	19:06:58 434:3
19:00:01 426:10	19:01:47 428:6	19:03:23 430:4	19:04:50 432:8	19:06:59 434:4
19:00:02 426:11	19:01:48 428:7	19:03:25 430:5,6	19:04:56 432:9	19:07:00 434:5
19:00:04 426:12	19:01:50 428:8	19:03:26 430:7	19:05:00 432:10	19:07:02 434:6
19:00:10 426:13	19:01:51 428:9	19:03:29 430:8	19:05:02 432:11	19:07:06 434:7
19:00:12 426:14	19:01:53 428:10	19:03:31 430:9	19:05:07 432:12	19:07:10 434:8
19:00:14 426:15	428:11	19:03:32 430:10	19:05:09 432:13	19:07:12 434:9
19:00:16 426:16	19:01:56 428:12	19:03:33 430:11	19:05:11 432:14	19:07:14 434:10
19:00:22 426:17	19:01:57 428:13	19:03:34 430:12	19:05:15 432:15	19:07:16 434:11
	19:01:59 428:14	19:03:35 430:13	19:05:17 432:16	19:07:19 434:12

19:07:20 434:13	19:09:00 436:11	19:11:06 438:7	19:13:24 440:6,7	19:15:07 442:4
19:07:21 434:14	19:09:02 436:12	19:11:07 438:8	19:13:25 440:8	19:15:11 442:5
19:07:22 434:15	19:09:05 436:13	19:11:11 438:9	19:13:26 440:9	19:15:13 442:6
19:07:24 434:16	19:09:09 436:14	19:11:14 438:10	19:13:29 440:10	19:15:16 442:7
19:07:26 434:17	19:09:12 436:15	19:11:17 438:11	19:13:30 440:11	19:15:18 442:8
19:07:29 434:18	19:09:15 436:16	19:11:20 438:12	19:13:32 440:12	19:15:22 442:9
19:07:31 434:19	19:09:18 436:17	19:11:22 438:13	19:13:33 440:13	19:15:23 442:10
19:07:35 434:20	19:09:20 436:18	19:11:26 438:14	19:13:35 440:14	19:15:24 442:11
19:07:37 434:21	19:09:23 436:19	19:11:28 438:15	19:13:38 440:15	19:15:25 442:12
19:07:39 434:22	19:09:24 436:20	19:11:32 438:16	19:13:40 440:16	19:15:28 442:13
19:07:42 434:23	19:09:26 436:21	19:11:36 438:17	19:13:42 440:17	19:15:31 442:14
19:07:43 434:24	19:09:27 436:22	19:11:40 438:18	19:13:43 440:18	19:15:33 442:15
19:07:45 434:25	19:09:29 436:23	19:11:42 438:19	19:13:44 440:19	19:15:35 442:16
19:07:49 435:1	19:09:30 436:24	19:11:45 438:20	19:13:46 440:20	19:15:36 442:17
19:07:54 435:2	19:09:33 436:25	19:11:47 438:21	19:13:47 440:21	19:15:38 442:18
19:07:56 435:3	19:09:35 437:1	19:11:51 438:22	19:13:48 440:22	19:15:41 442:19
19:08:00 435:4	19:09:39 437:2	19:11:54 438:23	19:13:50 440:23	19:15:45 442:20
19:08:02 435:5,6	19:09:42 437:3	19:11:58 438:24	440:24	19:15:49 442:21
19:08:05 435:7	19:09:45 437:4	19:12:00 438:25	19:13:54 440:25	19:15:53 442:22
19:08:07 435:8	19:09:49 437:5	19:12:03 439:1	19:13:56 441:1	19:15:55 442:23
19:08:08 435:9	19:09:52 437:6	19:12:06 439:2,3	19:14:01 441:2	19:15:58 442:24
19:08:10 435:10	19:09:54 437:7	19:12:09 439:4	19:14:04 441:3	19:16:02 442:25
19:08:11 435:11	19:09:56 437:8	19:12:11 439:5	19:14:07 441:4	19:16:04 443:1
19:08:14 435:12	19:09:58 437:9	19:12:15 439:6	19:14:10 441:5,6	19:16:09 443:2
19:08:18 435:13	19:10:02 437:10	19:12:17 439:7	19:14:11 441:7	19:16:11 443:3
19:08:20 435:14	19:10:04 437:11	19:12:20 439:8	19:14:13 441:8	19:16:14 443:4
19:08:23 435:15	19:10:07 437:12	19:12:22 439:9	19:14:18 441:9	19:16:16 443:5
19:08:26 435:16	19:10:09 437:13	19:12:25 439:10	19:14:22 441:10	19:16:19 443:6
19:08:27 435:17	19:10:12 437:14	19:12:27 439:11	19:14:25 441:11	19:16:21 443:7
19:08:30 435:18	19:10:15 437:15	19:12:28 439:12	19:14:28 441:12	19:16:24 443:8
19:08:31 435:19	19:10:17 437:16	19:12:31 439:13	19:14:30 441:13	19:16:26 443:9
19:08:32 435:20	19:10:21 437:17	19:12:35 439:14	19:14:33 441:14	19:16:28 443:10
19:08:34 435:21	19:10:27 437:18	19:12:38 439:15	19:14:36 441:15	19:16:29 443:11
19:08:36 435:22	19:10:32 437:19	19:12:41 439:16	19:14:37 441:16	19:16:31 443:12
19:08:37 435:23	19:10:37 437:20	19:12:46 439:17	19:14:40 441:17	19:16:34 443:13
19:08:39 435:24	19:10:38 437:21	19:12:48 439:18	19:14:43 441:18	19:16:36 443:14
19:08:40 435:25	19:10:40 437:22	19:12:55 439:19	19:14:48 441:19	19:16:37 443:15
19:08:42 436:1	19:10:42 437:23	19:13:00 439:20	19:14:51 441:20	19:16:40 443:16
19:08:45 436:2,3	19:10:44 437:24	19:13:05 439:21	19:14:52 441:21	19:16:42 443:17
19:08:46 436:4	19:10:46 437:25	19:13:07 439:22	19:14:53 441:22	19:16:45 443:18
19:08:47 436:5	19:10:49 438:1	19:13:10 439:23	19:14:55 441:23	19:16:47 443:19
19:08:50 436:6	19:10:51 438:2	19:13:11 439:24	19:14:56 441:24	19:16:48 443:20
19:08:52 436:7	19:10:53 438:3	19:13:13 439:25	19:14:57 441:25	19:16:52 443:21
19:08:54 436:8	19:10:58 438:4	19:13:15 440:1,2	19:14:59 442:1	19:16:54 443:22
19:08:56 436:9	19:11:00 438:5	19:13:17 440:3	19:15:02 442:2	19:16:56 443:23
19:08:58 436:10	19:11:04 438:6	19:13:21 440:4,5	19:15:05 442:3	19:16:59 443:24

19:17:01 443:25	19:20:39 445:23	19:22:45 447:19	19:24:45 449:15	19:26:39 451:12
19:17:36 444:1	19:20:41 445:24	19:22:48 447:20	19:24:47 449:16	19:26:41 451:13
19:17:40 444:2	19:20:44 445:25	19:22:52 447:21	19:24:50 449:17	19:26:43 451:14
19:17:50 444:3	19:20:48 446:1	19:22:53 447:22	19:24:53 449:18	19:26:47 451:15
19:17:56 444:4	19:20:50 446:2	19:22:55 447:23	19:24:55 449:19	19:26:50 451:16
19:17:59 444:5	19:20:54 446:3	19:22:58 447:24	19:24:57 449:20	19:26:53 451:17
19:18:01 444:6	19:20:57 446:4	19:23:01 447:25	19:25:01 449:21	19:26:54 451:18
19:18:02 444:7	19:21:02 446:5	19:23:05 448:1	19:25:02 449:22	19:27:01 451:19
19:18:04 444:8	19:21:05 446:6	19:23:07 448:2	19:25:05 449:23	19:27:03 451:20
19:18:06 444:9	19:21:06 446:7	19:23:09 448:3	19:25:07 449:24	19:27:06 451:21
444:10,11	19:21:08 446:8	19:23:11 448:4	19:25:10 449:25	19:27:08 451:22
19:19:11 444:12	19:21:12 446:9	19:23:14 448:5	450:1	19:27:11 451:23
19:19:17 444:13	19:21:14 446:10	19:23:17 448:6	19:25:13 450:2	19:27:13 451:24
19:19:20 444:14	19:21:18 446:11	19:23:20 448:7	19:25:15 450:3	451:25
19:19:24 444:15	19:21:21 446:12	19:23:23 448:8	19:25:17 450:4	19:27:14 452:1
19:19:27 444:16	19:21:24 446:13	19:23:25 448:9	19:25:19 450:5	19:27:17 452:2
19:19:28 444:17	19:21:27 446:14	19:23:28 448:10	19:25:23 450:6	19:27:18 452:3
19:19:30 444:18	19:21:30 446:15	19:23:29 448:11	19:25:24 450:7	19:27:22 452:4
19:19:33 444:19	19:21:33 446:16	19:23:31 448:12	19:25:27 450:8	19:27:25 452:5
19:19:34 444:20	19:21:38 446:17	19:23:34 448:13	19:25:29 450:9	19:27:30 452:6
19:19:37 444:21	19:21:41 446:18	19:23:37 448:14	19:25:32 450:10	19:27:33 452:7
19:19:39 444:22	19:21:43 446:19	19:23:40 448:15	19:25:34 450:11	19:27:34 452:8
19:19:43 444:23	19:21:46 446:20	19:23:42 448:16	19:25:37 450:12	19:27:36 452:9
19:19:45 444:24	19:21:49 446:21	19:23:44 448:17	19:25:39 450:13	19:27:38 452:10
19:19:48 444:25	19:21:51 446:22	19:23:46 448:18	19:25:42 450:14	19:27:41 452:11
19:19:53 445:1	19:21:54 446:23	19:23:49 448:19	19:25:45 450:15	19:27:46 452:12
19:19:56 445:2	19:21:57 446:24	19:23:51 448:20	19:25:47 450:16	19:27:49 452:13
19:19:59 445:3	19:21:59 446:25	19:23:53 448:21	19:25:50 450:17	19:27:54 452:14
19:20:00 445:4,5	19:22:01 447:1	19:23:56 448:22	19:25:53 450:18	19:27:57 452:15
19:20:02 445:6	19:22:04 447:2	448:23	19:25:56 450:19	19:28:00 452:16
19:20:03 445:7	19:22:07 447:3	19:23:58 448:24	19:25:58 450:20	19:28:03 452:17
19:20:06 445:8	19:22:09 447:4	19:24:01 448:25	19:26:03 450:21	19:28:05 452:18
19:20:07 445:9	19:22:11 447:5	19:24:04 449:1	19:26:06 450:22	19:28:11 452:19
19:20:08 445:10	19:22:13 447:6	19:24:07 449:2	19:26:09 450:23	19:28:13 452:20
19:20:11 445:11	19:22:15 447:7	19:24:12 449:3	19:26:11 450:24	19:28:16 452:21
19:20:13 445:12	19:22:17 447:8	19:24:14 449:4	19:26:14 450:25	19:28:19 452:22
19:20:14 445:13	19:22:18 447:9	19:24:18 449:5	19:26:16 451:1	19:28:20 452:23
19:20:17 445:14	19:22:20 447:10	19:24:24 449:6	19:26:17 451:2	19:28:22 452:24
19:20:19 445:15	19:22:23 447:11	19:24:26 449:7	19:26:20 451:3	19:28:24 452:25
19:20:21 445:16	19:22:25 447:12	19:24:29 449:8	19:26:21 451:4,5	19:28:25 453:1
19:20:23 445:17	19:22:27 447:13	19:24:31 449:9	19:26:24 451:6	19:28:26 453:2
19:20:25 445:18	19:22:29 447:14	19:24:34 449:10	19:26:26 451:7	19:28:27 453:3
19:20:26 445:19	19:22:31 447:15	19:24:36 449:11	19:26:28 451:8	19:28:29 453:4,5
19:20:28 445:20	19:22:35 447:16	19:24:38 449:12	19:26:30 451:9	19:28:30 453:6
19:20:34 445:21	19:22:38 447:17	19:24:39 449:13	19:26:32 451:10	19:28:31 453:7
19:20:37 445:22	19:22:43 447:18	19:24:43 449:14	19:26:34 451:11	19:28:32 453:8

19:28:33 453:9	19:30:22 455:8	19:32:50 457:5	19:34:35 459:2	2005 295:19
19:28:37 453:10	19:30:23 455:9	19:32:53 457:6	19:34:39 459:3	2006 300:16
453:11	19:30:27 455:10	19:32:54 457:7	1995 270:18	303:9,22 349:5
19:28:39 453:12	19:30:28 455:11	19:32:56 457:8	19th 29:4 30:13	352:25 378:21
19:28:41 453:13	19:30:29 455:12	19:32:59 457:9	30:20 155:17	379:2,23 380:1
19:28:45 453:14	19:30:33 455:13	19:33:02 457:10	327:17	2007 51:17
453:15	19:30:35 455:14	19:33:05 457:11	1L5 1:24	380:14 384:19
19:28:46 453:16	19:30:39 455:15	19:33:08 457:12		2008 91:1
19:28:49 453:17	19:30:40 455:16	19:33:12 457:13	2	125:20 126:3
19:28:52 453:18	19:30:43 455:17	19:33:13 457:14	2 22:6,18 55:16	134:16 149:4,4
19:28:54 453:19	19:30:45 455:18	19:33:15 457:15	55:21 66:5	254:17 270:18
19:28:57 453:20	19:30:47 455:19	19:33:17 457:16	72:23 73:6,10	271:16 294:21
19:28:59 453:21	19:30:48 455:20	19:33:20 457:17	73:13,14,15	295:12 299:8
19:29:01 453:22	19:30:53 455:21	19:33:24 457:18	74:5 79:11,12	306:10,17,21
19:29:03 453:23	19:30:54 455:22	19:33:25 457:19	108:7,9 110:22	311:7 326:20
19:29:05 453:24	19:30:57 455:23	19:33:26 457:20	171:8,14	380:1
19:29:08 453:25	19:30:58 455:24	19:33:28 457:21	214:19 224:18	2009 7:21 10:13
19:29:10 454:1	19:30:59 455:25	19:33:32 457:22	288:21 294:11	11:8 41:23
19:29:14 454:2	19:31:00 456:1	19:33:37 457:23	319:13 320:11	52:15 91:1
19:29:17 454:3	19:31:01 456:2	19:33:39 457:24	357:15,17	97:6 120:1
19:29:21 454:4	19:31:02 456:3	19:33:40 457:25	358:24 393:9	125:20 126:3,8
19:29:25 454:5,6	19:31:04 456:4	19:33:41 458:1	393:23 415:17	130:21 132:16
19:29:26 454:7,8	19:31:05 456:5	19:33:43 458:2,3	2(c) 141:5	148:16 150:4
19:29:27 454:9	19:31:08 456:6	19:33:46 458:4	2,000 157:17	150:19 157:12
19:29:29 454:10	19:31:10 456:7	19:33:49 458:5	2,000-megawa...	167:8 268:17
19:29:32 454:11	19:31:11 456:8,9	19:33:50 458:6	120:22	268:18 271:16
19:29:34 454:12	19:31:23 456:10	19:33:54 458:7	2.1(b) 141:7	273:3 288:7,13
19:29:37 454:13	19:31:26 456:11	19:33:56 458:8	2.1(c) 140:23	288:14 294:6
19:29:40 454:14	19:31:29 456:12	19:33:58 458:9	2.1.2 296:8	307:20 317:13
19:29:42 454:15	19:31:35 456:13	458:10	2.1.3 296:24	319:11 338:10
19:29:44 454:16	19:31:37 456:14	19:34:02 458:11	2.4 141:10	340:5,9
19:29:46 454:17	19:31:38 456:15	19:34:04 458:12	2:05 189:2	2010 1:3 25:23
19:29:47 454:18	19:31:42 456:16	19:34:07 458:13	2:07 189:11	36:24 55:18
19:29:49 454:19	19:31:46 456:17	19:34:08 458:14	20 71:6 82:16	56:9,18 57:5
19:29:54 454:20	19:31:47 456:18	19:34:10 458:15	96:14 133:14	57:11 60:12
19:29:55 454:21	19:31:51 456:19	19:34:12 458:16	155:14 185:14	67:8 77:11,15
19:29:59 454:22	19:31:53 456:20	19:34:14 458:17	209:22 218:5	79:24 80:19
19:30:02 454:23	19:32:24 456:21	458:18	237:12 268:5	82:23 85:5,14
19:30:04 454:24	19:32:25 456:22	19:34:16 458:19	268:13 340:15	85:17 87:17,19
19:30:08 454:25	19:32:30 456:23	19:34:21 458:20	383:7 387:5	95:5 115:12
19:30:12 455:1	19:32:34 456:24	19:34:24 458:21	439:15	117:19 125:20
19:30:15 455:2	19:32:36 456:25	19:34:26 458:22	20-year 170:16	126:3 146:16
19:30:18 455:3	19:32:40 457:1	19:34:28 458:23	2000 268:4	146:17 178:18
19:30:19 455:4,5	19:32:41 457:2	19:34:29 458:24	2003 384:7	178:25 179:5
455:6	19:32:46 457:3	19:34:31 458:25	2004 134:15	180:17 186:17
19:30:20 455:7	19:32:48 457:4	459:1	295:19	187:1,6 206:5

245:21 246:11	206:1,12	60:6 65:12	272:2	114:24
271:16 310:19	207:19 208:7	80:8 129:24	300 135:6	400 24:17
332:2 335:3	251:21 252:2	146:18,20	256:11 257:8	312:19
359:14 364:23	261:4	147:15	257:10	400,000 447:25
365:4,16,23	2025 302:6	26 29:17 70:8,13	300-megawatt	41 108:21
366:12,22	21 64:1 78:11	107:6 170:4	178:17,25	416 1:25
367:6,8	106:12 168:6	173:21 355:21	180:16	43 108:24
2010/2011 367:1	168:21 169:2	267 3:15	31 107:22 283:6	44 109:2
2011 57:3,6 70:3	240:5	269 3:16	329:7	444 3:24
70:10 79:24	21st 43:8,11,19	26th 79:12 85:19	32 112:19	45 109:4
85:13,17 86:25	22 72:15,17	27 70:5 107:9	201:25 283:18	45-million
87:17 88:6	106:15 206:4	357:23	329:7	136:24 137:23
91:15 118:6	241:1 346:12	271 3:17	33 329:7	453 3:25
171:1,15 187:6	23 57:10 106:18	27th 30:4,5	333 1:10 37:3	48 151:24
211:6 214:10	241:24 278:2	28 107:9,12	35 7:14 287:14	48-month 56:11
218:5 220:1,17	280:5 347:23	171:15 281:25	359 417:13	48-months
224:13 241:3,5	365:22	294:21 362:1	359/09 13:22	56:13
241:8 242:3	23.1 106:22	375:8 400:15	102:2,4	4th 87:18 203:20
245:20 249:6	23rd 335:2	408:24	36 299:9	220:1
249:22 271:16	24 29:12 43:5	29 107:16	365 172:19	
335:8 359:14	106:25 202:6	282:15 329:7	373 3:18	<hr/> 5 <hr/>
364:18,24	204:23 205:16	365:11	377 3:19	5 15:7,8,13
365:2 366:12	206:2 241:17	2T4 1:24	383 3:21,22	16:10,19 17:25
366:25 367:11	268:17,18	<hr/> 3 <hr/>	385 3:23	66:9 73:10
367:13 384:7	269:9 273:2		39 108:5,14	79:14,18
441:14 453:13	280:8 317:13	3 1:13 4:6 16:10	<hr/> 4 <hr/>	102:25 103:1,3
2012 79:24	350:6,8,16,25	16:19 21:18	4 16:10,19 173:7	103:8,13,25
145:9	351:10 375:19	73:15 74:1,4	203:15,18	104:12 108:10
2013 137:22	377:15 394:3	79:22 102:20	205:25 206:1	173:21 241:3,8
173:6,21	399:22 408:23	108:8 215:12	206:11 207:19	241:13 242:3
209:22	433:12	217:13 220:16	208:7 251:21	276:12 288:21
2013-22 1:1	24th 70:10	267:4 268:4,6	252:2 275:1	289:3,5 290:25
2014 6:7 71:4,13	148:16 396:3	268:7 275:2	288:21 289:21	291:3,10
79:14 174:7	25 57:11 68:1,15	288:21 303:22	321:14 417:8	307:23 345:1
179:5 209:19	70:17,20 71:6	306:15 319:11	4-year 56:15	345:17,23
252:5,13	71:9 107:3	319:16 392:5,6	4:36 321:23	348:19 349:8
2015 6:8 78:10	247:25 270:13	3,000 177:6	4:50 321:22	400:16,17
79:23,25 81:22	280:12 350:7	196:24 197:6	4:52 321:24	417:18 419:8
138:5 145:8	350:10,18	3:25 265:25	40 108:17	5-kilometre
155:14,17	353:3 377:14	3:30 265:24	40-dB 25:7	336:5 340:21
203:15,18,20	250 22:1	3:38 266:1	28:21 117:1	341:22 342:25
267:4 268:6,8	251 3:12	30 7:14 107:18	40-decibel 24:13	344:3 348:8
268:13 383:4	253 3:13	282:18 296:18	115:2,7 116:24	351:25 358:17
2016 1:10,13,22	25th 43:10 45:22	297:20 307:8	128:8	413:8
4:2	45:24 59:14,15	329:10 366:2,4	40-decibels	50 186:25
2017 205:25	59:18,20,24	30-or-more-ye...		187:15 197:7

197:12,23,25	419:14,20	232:25 248:22	
198:17,22	453:19,19	319:8 413:12	
50-megawatt	6.1 280:5	8:30 429:10	
197:19	6.1.3 280:8	8:59 1:10 4:3	
50-megawatts	6.2 288:19	80 330:21	
185:9 186:24	6.4 281:25	840 335:12	
187:9	6:10 381:22	861-8720 1:25	
500 198:2,9,10	6:11 382:12	87 248:17	
198:13 307:15	6:19 382:13	8th 52:8 82:23	
309:15 447:2	60 151:24	454:11,16	
500-kilowatts	297:16 298:1	455:7	
187:14	330:21		
500-megawatt	61 68:24	<hr/> 9 <hr/>	
135:6	613 1:25	9 201:22 304:22	
50s 186:23,24	62 67:25	305:12 322:16	
51 364:7,9	63 15:19	332:2 335:14	
53 14:20 16:6,8	64 292:7	338:10 416:9	
17:12,21 109:7	64.2 109:19	9.1(j) 162:22	
53(1) 16:15	292:2	163:10	
54 17:18 18:3,9	66 70:4	9:00 456:18	
54.1 109:9	6th 412:11 419:9	459:2	
55 17:18 109:12	419:11 426:19	9:30 429:10	
550 18:6 22:11	453:13	900 1:10	
24:15,20,21	<hr/> 7 <hr/>	900-333 1:23	
27:17 28:13	7 3:2,3 55:18	915 423:4	
40:16	69:6,7 70:3	916 425:15	
550-metre 18:4	83:18 84:8,9	917 429:1	
22:8 75:25	84:11,15 174:6	959 400:16	
339:16	230:1 317:12	9th 145:15	
56 109:15	412:13 418:2		
564-2727 1:25	7.2 112:19		
5K 342:18	283:19		
353:13 414:9	7:34 459:4		
414:25 415:1	70 141:22 187:3		
415:12 418:2	187:3 197:9,10		
<hr/> 6 <hr/>	197:17,24		
6 14:19,23 15:1	198:1,12		
15:2,2,5,6,23	75 141:17,22,25		
102:7 173:13	76 327:9		
210:20 212:4	7th 56:9 57:5		
240:16 268:16	454:7,9,16		
288:10,16	455:7		
310:8,15	<hr/> 8 <hr/>		
351:12 410:22	8 3:4 165:16		
413:4 417:16			