## **Ottawa Light Rail Commission**

John Jensen on Thursday, May 12, 2022



77 King Street West, Suite 2020 Toronto, Ontario M5K 1A1

neesonsreporting.com | 416.413.7755

1	
2	
3	
4	
5	
6	OTTAWA LIGHT RAIL COMMISSION
7	CITY OF OTTAWA - JOHN JENSEN
8	MAY 12, 2022
9	
10	
11	
12	
13	
14	
15	Held via Zoom Videoconferencing, with all
16	participants attending remotely, on the 12th day of
17	May, 2022, 2:00 p.m. to 5:00 p.m.
18	
19	
20	
21	
22	
23	
24	
25	

```
1
    COMMISSION COUNSEL:
    Kate McGrann, Co-Lead Counsel Member
2
3
    Carly Peddle, Litigation Counsel Member
4
5
    PARTICIPANTS:
б
    John Jensen: City of Ottawa
7
    Peter Wardle, Betsy Segal: Singleton Urquhart
8
    Reynolds Vogel LLP
9
10
    Also Present:
    Deana Santedicola, Stenographer/Transcriptionist
11
12
    Talia Gillani, Virtual Technician
13
14
15
16
17
18
19
20
21
22
23
24
25
```

1	INDEX OF EXHIBITS
2	
3	NO. DESCRIPTION PAGE/LINE NO.
4	1 Curriculum Vitae of John
5	Jensen
б	
7	
8	
9	
10	
11	* * The following is a list of documents undertaken
12	to be produced, items to be followed up on, or
13	questions refused * *
14	
15	
16	INDEX OF UNDERTAKINGS
17	
18	The documents to be produced are noted by $U/T$ and
19	appear on the following page/line: [None]
20	
21	INDEX OF REFUSALS
22	The questions/requests refused are noted by R/F and
23	appear on the following pages: [None]
24	
25	

1 -- Upon commencing at 2:00 p.m. 2 3 JOHN JENSEN; AFFIRMED. 4 KATE McGRANN: Good afternoon, Mr. 5 My name is Kate McGrann. I am one of the Jensen. 6 Co-Lead Counsel of the Ottawa Light Rail Transit 7 Public Inquiry. 8 I am joined today by my colleague, 9 Carly Peddle, who is a Member of the Commission's 10 Counsel team. 11 The purpose of today's interview is to 12 obtain your evidence under oath or solemn 13 declaration for use at the Commission's public 14 hearings. 15 This will be a collaborative interview 16 such that my co-Counsel, Ms. Peddle, may intervene 17 to ask certain questions. If time permits, your 18 counsel may also ask follow-up questions at the end 19 of this interview. 20 This interview is being transcribed, 21 and the Commission intends to enter this transcript 22 into evidence at the Commission's public hearings 23 either at the hearings or by way of procedural 24 order before the hearings commence. 25 The transcript will also be posted to

the Commission's public website, along with any corrections made to it, after it is entered into evidence. The transcript, along with any corrections later made to it, will be shared with the Commission's participants and their Counsel on a confidential basis before being entered into evidence.

<sup>8</sup>You will be given the opportunity to <sup>9</sup>review your transcript and correct any typos or <sup>10</sup>other errors before the transcript is shared with <sup>11</sup>the participants or entered into evidence. Any <sup>12</sup>non-typographical corrections made will be appended <sup>13</sup>to the transcript.

14 Pursuant to section 33(6) of the Public 15 Inquiries Act (2009), a witness at an inquiry shall 16 be deemed to have objected to answer any question 17 asked of him or her upon the ground that his or her 18 answer may tend to incriminate the witness or may 19 tend to establish his or her liability to civil 20 proceedings at the instance of the Crown or of any 21 person, and no answer given by a witness at an 22 inquiry shall be used or be receivable in evidence 23 against him or her in any trial or other 24 proceedings against him or her thereafter taking 25 place other than a prosecution for perjury in

giving such evidence.

1

2 As required by section 33(7) of that 3 Act, you are hereby advised that you have the right 4 to object to answer any question under Section 5 of 5 the Canada Evidence Act. 6 We'll aim to take a break at 3:30, but 7 if at any point during the interview you need to take a break, just let us know and we will pause 8 9 the recording. 10 JOHN JENSEN: Thank you. 11 KATE McGRANN: To get started, we had 12 asked that your Counsel provide us a copy of your 13 CV. I am showing you the document that we 14 received. It is a one-page document, dated May 15 4th, 2020, and it has got your name on it, and it 16 says it is a "Professional Bio". Do you recognize 17 this document? 18 JOHN JENSEN: Yes, I do. 19 KATE McGRANN: And is this a copy of 20 your CV? 21 JOHN JENSEN: Yes. 22 KATE McGRANN: So we'll have that 23 entered as Exhibit 1 to your examination. 24 EXHIBIT NO. 1: Curriculum Vitae 25 of John Jensen.

KATE McGRANN: To begin, would you provide us with a brief description of your professional experience as it relates to the work that you did on Stage 1 of Ottawa's Light Rail Transit System?

6 JOHN JENSEN: Well, as I indicated in 7 my bio, my career started with 20 years experience 8 with Calgary Transit where I worked my way up 9 through the organization and through all aspects of 10 public transit, including at one point in time 11 becoming a qualified light rail operator, being 12 engaged in supervision of the light rail system and 13 in the field, and ultimately being responsible for 14 the Operations Control Centre that was responsible 15 for all bus and rail operations with the City of 16 Calqary.

<sup>17</sup> Subsequently, I worked with the City of <sup>18</sup> Toronto in various capacities, one of which being <sup>19</sup> responsible for management of the O-Train, or I <sup>20</sup> think they call it the Trillium Line now, where I <sup>21</sup> was responsible for all of the maintenance, capital <sup>22</sup> programs and operation of that program and the <sup>23</sup> vehicles as well.

I moved on from that role and moved
 into the role of Director of Rail Implementation

for the City of Ottawa, at that point initially being responsible for the procurement of what is now the Confederation Line.

1

2

3

4 From an educational perspective, I have 5 a Bachelor of Science degree and a Master of 6 Science degree from the University of Calgary. 7 Most of my studies were engaged in transportation 8 and land use, but a considerable portion of my 9 studies involved physical geography, which meant 10 things like soils and geo-morphology, which gave me 11 a good knowledge of technical conditions, for 12 example, you know, when speaking with the engineers 13 about tunnelling and those types of things.

And then subsequently, I moved on from there, which I think is the next part, but that is post my position there.

KATE McGRANN: Okay, and I think that you, after describing your time at Calgary Transit, I believe you said that you then went to the City of Toronto and spoke about work on the O-Train. I take it that you meant to say that you went on to the City of Ottawa to --

JOHN JENSEN: Yes, I'm sorry.
KATE McGRANN: No, not at all.
In any of the work that you did prior

to the work that you did on Stage 1 of the Ottawa Light Rail Transit System, have you been involved in the opening of a new line or an extension to an existing light rail line?

5

6

7

8

9

10

11

12

13

14

15

16

JOHN JENSEN: I am just trying to think in Calgary if we -- yes, I think we did an extension to the south line of the Calgary LRT line, as I recall, and I would have been involved in the operational component of the commissioning of that line, and I am pretty sure that line opened before I left there.

KATE McGRANN: When you say that you would have been involved in the operational component and the commissioning of that line, could you give a little bit more information about what that would mean?

17 JOHN JENSEN: Well, I was responsible 18 for the supervision of the Control Centre, which 19 means that that is the centre that managed the 20 drivers that were driving the trains and also 21 controlled the operation of the trains on the 22 system, and that component would have had to be 23 tested to reach a certain level of reliability 24 before it could have been put into operation. 25 KATE McGRANN: Okay, so were you

1 involved in the testing of the Control Centre and 2 related --3 JOHN JENSEN: Yeah, I was managing the 4 Control Centre at the time, yeah. 5 KATE McGRANN: And prior to your 6 involvement in Ottawa, Stage 1 of the LRT, did you 7 have any prior experience on P3 projects? 8 Yes, I -- sorry, I should JOHN JENSEN: 9 have mentioned as well that one of the roles that I 10 performed while I was with City of Ottawa was I had 11 a senior role on the North-South Light Rail 12 Project. In my capacity on that project, I was 13 responsible for the development of the maintenance 14 facility and the programs there and the 15 requirements for the maintenance of that line and 16 the vehicle procurement, the operational components 17 of that system, so everything operational and 18 maintenance-related in terms of operating the 19 system and the vehicles and drivers, training, all 20 of those aspects of that program, rules and 21 regulations. I am just trying to think back of all 22 the pieces that were there. 23 KATE McGRANN: What delivery model was 24 going to be used for the North-South Line? 25 JOHN JENSEN: It was a

1 design/build/maintain, I believe, if I recall 2 correctly.

3 KATE McGRANN: And how far along in the 4 process did that project get?

5 That project got all the JOHN JENSEN: 6 way to the stage of contract award, and then there 7 was an issue with the funding and the project 8 stopped at that point. But it was all the way to contract award. So had the funding come through, 10 that project would have proceeded.

9

11 KATE McGRANN: Did the City take any 12 lessons learned from the North-South Line and all 13 the work that was done to get up to contract award 14 that it brought to its work on Stage 1 of Ottawa's 15 Light Rail Transit System?

16 Well, to the extent that JOHN JENSEN: 17 we could learn from that project, we brought over 18 the materials that were available from that 19 project, the Project Agreement, the design 20 specifications, and those were made available to 21 the Confederation Line team for review so that they 22 could look at the agreement, look at the 23 specifications.

24 You know, a big component of that would 25 have been, for example, looking at all the work

1	that was done on the North-South Project around
2	trains operating in the climatic conditions for
3	Ottawa. A considerable amount of effort was spent
4	looking at that.
5	KATE McGRANN: And could you speak a
6	little bit more about the work that was done on the
7	trains that would be operating in Ottawa's
8	particular circumstances?
9	JOHN JENSEN: I am not sure I
10	understand the question.
11	KATE McGRANN: So you said a lot of
12	work was done on the North-South Line looking at
13	trains that would operate in Ottawa's climatic
14	conditions, if I understand correctly.
15	JOHN JENSEN: That's right.
16	KATE McGRANN: So could you just
17	describe in some more detail what work was done on
18	the trains in that regard?
19	JOHN JENSEN: In that project, there
20	was a considerable amount of research done into the
21	climatic conditions around the world that related
22	to Ottawa and what vehicles and what types of
23	vehicles were operating in those climates and the
24	conditions that they had to run under.
25	And so the specifications for the

1 Ottawa North-South Project were developed based on 2 that research and on the expertise of the owner's 3 engineer at that time, and that information was 4 made available to the Project Team for the 5 Confederation Line. 6 KATE McGRANN: And do you know what use 7 was made of that information? 8 JOHN JENSEN: Well, it was taken as 9 information and as a basis for the further research 10 that the Project Team would have done on the 11 Confederation Line. 12 KATE McGRANN: Had a vehicle supplier 13 been selected for the North-South Line? 14 JOHN JENSEN: Yes, it -- well, the 15 vehicle supplier was part of the bid that was 16 successful on the North-South Line. 17 KATE McGRANN: And who was the vehicle 18 supplier who was selected? 19 JOHN JENSEN: To my recollection, I 20 believe it was Siemens. I stand to be corrected, 21 but I think it was Siemens. 22 KATE McGRANN: The Project Agreement 23 that was brought over -- I understand on Stage 1 24 the Project Agreement was ultimately built off of 25 an Infrastructure Ontario template; is that right?

1 JOHN JENSEN: Stage 1 of the 2 North-South or the Confederation Line? 3 The Confederation Line. KATE McGRANN: 4 JOHN JENSEN: The Stage 1 Confederation 5 Line Project Agreement ultimately was built on the 6 base of the Infrastructure Ontario agreement. 7 KATE McGRANN: Was there a completed 8 Project Agreement or a near final draft of a 9 Project Agreement done for the North-South Line? 10 JOHN JENSEN: For the North-South Line? 11 Yes, it would have been a completed agreement 12 because the project was ready to award and sign. 13 KATE McGRANN: Were any aspects of that 14 agreement brought across to use in the 15 Confederation Line agreement? 16 JOHN JENSEN: I would say some 17 components of that agreement found their way into 18 the Confederation Line agreement. For example, a 19 considerable amount of work was done around for 20 let's say maintenance specifications for the 21 maintenance contract for the North-South Line. 22 That would have informed the maintenance component 23 of the Confederation Line agreement. 24 And I am sure there were other elements 25 that were considered as part of the discussions,

1 because it certainly was a reference document that 2 was available to us to use. 3 KATE McGRANN: Okay, and other than 4 your experience on the North-South Line, any other 5 experience in P3 projects before the work that you 6 did on Stage 1 of the Confederation Line? 7 JOHN JENSEN: No. 8 KATE McGRANN: And I believe that you 9 were involved in Stage 1 of the Confederation Line 10 from 2009 to 2012; is that right? 11 JOHN JENSEN: That's correct. 12 KATE McGRANN: Would you give us a 13 description or an overview of the role that you 14 played in the work done on the Stage 1 15 Confederation Line project? 16 Well, my role was JOHN JENSEN: 17 Director of the project, so I reported to the 18 Deputy City Manager who reported to the City 19 Manager, but my responsibility was to lead the 20 procurement of the Confederation Line, so all 21 aspects of that process. 22 KATE McGRANN: And could you describe 23 the team that was working for you in accomplishing 24 the work that was to be done? 25 JOHN JENSEN: Well, it was a

<sup>1</sup> multi-faceted team. It included some <sup>2</sup> representation from the City of Ottawa in the form <sup>3</sup> of a planner, a procurement officer. Who else did <sup>4</sup> I have? Real estate. So I had representation in <sup>5</sup> those areas from the City, finance. I am just <sup>6</sup> trying to remember who all was there.

And then supplementing -- and also dialogue with OC Transpo as part of the process. I can't remember if I am -- oh, and engineering, the Chief Engineer for the project came from the City of Ottawa.

7

8

9

10

11

And then that team was supplemented with an owner's engineer, Capital Transit Partners L believe was the acronym, and they were an experienced group of engineering consultants that had worked on other similar projects in North America.

We had legal support from BLG. We had financial support from Deloitte and PwC. I am trying to think of who else. And then other miscellaneous consultants that provided other independent roles.

And then, as you are aware, at one
 point we brought Infrastructure Ontario on board.
 KATE McGRANN: What led to the

1 involvement of Infrastructure Ontario in this 2 project?

JOHN JENSEN: Well, I think there was some interest from the City of Ottawa itself in terms of exploring Infrastructure Ontario as an option. So I was asked as part of the project with the Deputy City Manager to explore them as a viable addition to the team, and so we went down that path.

10 KATE McGRANN: Okay. And who asked you 11 to do that?

JOHN JENSEN: Well, that -- I am just trying to remember where -- I have seen in various reports where one of the committees of Council was asking and I know the City Manager was asking, and so at that point the Deputy City Manager and I began to look at Infrastructure Ontario.

18 KATE McGRANN: Would you just describe 19 what their entry into the project looked like, how 20 did they begin and then what did it look like to 21 bring them on board.

JOHN JENSEN: Well, when the decision Was made to bring them on board, we entered into a Memorandum of Understanding with Infrastructure Ontario where we defined the various roles and what their scope of work would be.

1

2

3

5

6

7

8

9

10

11

And Infrastructure Ontario ultimately came on as a procurement lead to help us lead the 4 process through the procurement, and at that point we brought their template into the mix so that we could begin using that as the basis for the Project Agreement ultimately.

And did they have KATE McGRANN: involvement prior to the negotiation of the MOU? Like how did they first come to be working with the City?

12 JOHN JENSEN: Well, I think it was kind 13 of all a part and parcel process, where they had 14 meetings with us and with the Deputy City Manager 15 and the City Manager, and at that point we began to 16 explore the value of the various procurement 17 options. And when it became apparent that a 18 P3-type model was looking to be an advantageous 19 model, it is at that point where Infrastructure 20 Ontario became more engaged and started providing 21 us with information. And then we just evolved to 22 the point of an MOU.

23 KATE McGRANN: Who was the Procurement 24 Officer from the City who was working on the 25 project?

1 JOHN JENSEN: His name was Dan Farrell. 2 KATE McGRANN: And did the inclusion of 3 Infrastructure Ontario affect the work that he was 4 doing at all? 5 JOHN JENSEN: Well, it took him from б being a lead on starting to develop the procurement 7 to being part of a team developing the procurement. 8 KATE McGRANN: And who was ultimately 9 directing the work that Infrastructure Ontario was 10 doing? JOHN JENSEN: Well, I guess I was. 11 And 12 of course, that would have been -- just to clarify 13 that, I mean, it is not as simple as that. Tt. 14 wasn't just me. I was part of a governance 15 structure where I reported to the Deputy City 16 Manager, but I also reported in to a Steering 17 Committee that was chaired by the City Manager and 18 all decisions of any importance in the project were 19 made through that Steering Committee. So for 20 example, bringing Infrastructure on board was 21 ultimately approved by that Steering Committee, and 22 then of course up the chain to Committee and 23 Council if approval was required there at the 24 discretion of the City Manager. 25 So it was all part of a governance

1 structure. So when I say that I was responsible, I 2 was responsible as part of a governance structure 3 that I reported through. 4 KATE McGRANN: And what approach did 5 the -- is this the Executive Steering Committee? 6 JOHN JENSEN: Yes. 7 KATE McGRANN: What approach did the 8 Executive Steering Committee take to making the 9 decisions that it had to make, do you know? 10 JOHN JENSEN: Well, the Executive 11 Steering Committee made decisions based on 12 information and recommendations that were brought 13 forward by the Project Team, and the Executive 14 Steering Committee had a role of reviewing the 15 information and recommendations, asking questions, 16 challenging the process, and ultimately satisfying 17 themselves that they had enough information to make 18 a decision. 19 KATE McGRANN: And do you know if they 20 made their decisions by way of vote or consensus? 21 Do you know how they approached that? 22 Well, my sense was JOHN JENSEN: 23 generally by way of consensus. 24 Generally, do you recall KATE McGRANN: 25 IO providing any advice to the City that the City

1 did not accept? JOHN JENSEN: Well, the project was set 2 3 up on the basis of having every element of the 4 project questioned at all times. So in other 5 words, nothing was accepted as status quo. 6 So when we reviewed specifications, 7 when we reviewed agreements, when we reviewed 8 language, when we reviewed methodology, it was all 9 constantly challenged as we went through the 10 process to make sure that nothing was accepted as 11 status quo. 12 So in that context, yes, everything was 13 questioned. 14 KATE McGRANN: And what led to the 15 introduction of that challenge-everything approach 16 to this project? 17 JOHN JENSEN: Well, that was generally the approach that I took as part of the process, 18 19 but I felt that it was expected of us to not accept 20 anything at face value because the objective was to 21 get the best value for the City and the funding 22 partners and the citizens of Ottawa. And we felt 23 that a challenge process of every element of the 24 project was the best way to make sure that we 25 weren't just accepting status quo for the sake of

1 accepting status quo. We were going for best 2 value. 3 KATE McGRANN: And did you have the 4 time that you needed to take the 5 challenge-everything approach that you thought 6 would lead to the best value for the City? 7 JOHN JENSEN: Well, my sense is yes 8 because we managed to deliver the procurement in a 9 thorough way within a reasonable time, and I don't 10 feel that at any point in the process that we were 11 rushed or we were going through things too guickly. 12 My sense of the process is that 13 everything was done guite thoroughly and we looked 14 at every element sufficiently. 15 So I think in that sense there was 16 enough time. 17 KATE McGRANN: And did anybody raise 18 any concerns at any point up to the close of the 19 procurement that things were being rushed or that 20 there wasn't sufficient time to do what needed to 21 be done? 22 JOHN JENSEN: I don't get that sense. 23 I mean, we were always challenging schedule, and I 24 mean, you can always use more time, but in the end, 25 things proceeded effectively and we were able to

1 achieve the objective in a thorough manner. 2 So in that sense, I think that things 3 proceeded as they should, and yeah, I think that is 4 about it. 5 KATE McGRANN: On a day-to-day basis, 6 what did the challenge-everything approach look 7 like in practice? 8 Well, in practice, if we JOHN JENSEN: 9 were in a meeting reviewing language in the Project 10 Agreement, there was ample discussion and 11 encouragement for everyone in the room to speak up 12 if they agreed or disagreed with the language. And 13 as a rule, we would try and work to consensus, and 14 I think for the most part that was true. 15 On the engineering side, we conducted 16 value engineering exercises. We conducted specific 17 reviews to scrub the documents for any errors or 18 omissions. We encouraged team members to speak up 19 if they felt that a specification was too onerous 20 or too lenient. 21 So there was plenty of discussion 22 around every element of the project. 23 KATE McGRANN: And just coming back to 24 the question about IO, understanding now that there 25 was -- everybody was encouraged to challenge and

1 ask questions in order to get the best value, was 2 there any advice that IO really advanced that the 3 City ultimately did not take?

4 I am trying to think JOHN JENSEN: 5 through. I am sure there must have been a time or 6 two where the City had an opinion or a view that it 7 proceeded with that may not have necessarily been 8 the same view that IO would take, but I can't 9 remember specific incidents. It may be getting 10 back into too much small detail. It is awhile ago.

So I would have to say I am sure that 12 we disagreed on a point or two and the City held 13 its position, but it would have been done in an 14 informed way with plenty of information on the 15 table.

11

16 KATE McGRANN: Turning to the design 17 and engineering work that was done, before the City 18 decided to proceed by way of DBFM for Stage 1 of 19 the Confederation Line, can you tell me how -- what 20 design and engineering work was done particularly 21 with respect to the vehicles before that decision 22 was made?

23 JOHN JENSEN: Well, when we formed the 24 project team, the project was at a level called 25 functional design, which is a planning design which is very high level.

1

Once we received the approvals to Proceed with the project, then we started advancing the design more towards a procurement level which can be up to about 30 percent design, and that was being conducted by Capital Transit Partners.

7 And at that point, as the design 8 advanced, then we would be able to get a clearer 9 picture of what the requirements of the program 10 were, you know, what the schedule really looks 11 like, what the budget really looks like. It allows 12 us to advance all the elements of the project from 13 a planning design stage to a more delivery-ready 14 design that is ready for the proponents.

And as we were advancing that design, we were going through the process of selecting the optimal procurement model, and then once that selection was made, then we could advance the design along those lines to match the procurement model that we were going forward with.

KATE McGRANN: So was it the case that the design process lagged behind the decision on the procurement model?

JOHN JENSEN: It ran parallel, I would think, or maybe slightly behind because we didn't

1 want to -- we wanted to make sure that the design 2 that we were advancing matched the model that we 3 were going to use, because, for example, the 4 difference between a design/bid/build and a 5 design/build, in the design/bid/build, you have to б advance the design much further and be very 7 specific in detail, whereas towards a design/build 8 model, the design can be more in the line of 9 performance specifications; in other words, saying 10 the system has to accomplish this, and then it is 11 up to the bidders to decide how to do that when 12 they do their design.

KATE McGRANN: So was there any aspect of the design work that was done that had gone beyond the sort of performance output specifications that you would use in a DBFM to something more specific?

JOHN JENSEN: Well, I think because we were doing the two in parallel there was a bit of overlap, but not overly. The mind was always there that we would fine-tune and adjust as we went forward.

So I don't think there was a
 duplication there as much as there was some
 parallel work that was going on, but it needed to

1 in order to progress the project in a timely manner 2 and not lag behind in terms of keeping it moving 3 forward so that the procurement could proceed. 4 KATE McGRANN: And do you recall 5 whether there was any work that needed to be done б to -- backtrack is not the right word, but adjust 7 any of the design work that had been done to 8 properly position it for the procurement model that 9 was picked to make it more of a performance output? 10 JOHN JENSEN: Well, the design was an 11 iterative process, so there was always adjustment 12 There were adjustments being made for being made. 13 many reasons. As we value-engineered further into 14 the process, we saw opportunities to save costs, 15 opportunities to advance the schedule, 16 opportunities to better align with the procurement. 17 So it was always an iterative process 18 moving forward. 19 KATE McGRANN: And what -- specifically 20 with respect to the vehicles, what was brought 21 across from the work that had been done on the 22 North-South Line to inform the design work done on 23 the vehicles for Stage 1? 24 Well, the vehicle JOHN JENSEN: 25 component of the output specifications would have

<sup>1</sup> been made available to Capital Transit Partners,
 <sup>2</sup> and they would have used whatever they felt was
 <sup>3</sup> valuable from that output specification. But
 <sup>4</sup> primarily we relied on Capital Transit Partners and
 <sup>5</sup> their experience in the industry to develop the
 <sup>6</sup> vehicle specifications ready for procurement.

KATE McGRANN: And the design of the requirements from the north-south line, were they more prescriptive than what you were aiming for for the project-specific output specifications, the PSOS for the vehicles on Stage 1?

7

8

9

10

11

JOHN JENSEN: I don't know if they were more or less specific. The specifications for the vehicle in that project were designed for a design/build/maintain, so they were built for a design/build, so they should have been in alignment. But I can't say specifically whether they were more or less specific.

KATE McGRANN: Just because we are
 talking about the vehicles, I'll try to get as many
 of the questions that I have about those out of the
 way right now.

What work was done to ascertain what was available in the market that could line up with what the City was looking to obtain by way of vehicles?

1

JOHN JENSEN: Well, we did market JOHN JENSEN: Well, we did market soundings where we could have a look at what vehicles were available out in the world, and we relied on Capital Transit Partners to do that work so that we knew.

7 Generally, there aren't that many 8 vehicles in the field. I recall, whether it was 9 just before I went on to the project or just after, 10 there was a technical forum that was run where some 11 of the different vehicle manufacturers were invited 12 to come in and present to the City in a technical 13 forum, but that is a long time ago. I am trying to 14 remember what happened there.

<sup>15</sup> But we also would have relied on <sup>16</sup> Capital Transit Partners and their knowledge of the <sup>17</sup> vehicle manufacturers in the world. But like I <sup>18</sup> say, there aren't that many of them that are out <sup>19</sup> there. They are fairly well-known.

KATE McGRANN: And do you recall heading into the procurement for Stage 1 what your view was as to whether what the City was looking to procure existed already in the market?

JOHN JENSEN: Well, we would have -again, when we looked at the vehicles that were

1 available in the world, it is easy enough to do a 2 study to see what vehicle is running in what City 3 and where and get a sense of are there vehicles out 4 there that can run in this environment. 5 And we know there are because, for б example, Calgary Transit is running vehicles in a 7 winter environment. That is one example. But 8 there is vehicles running in Northern Europe and in 9 the northern parts of the United States where there 10 is winter conditions and snow conditions. 11 So again, it is a fairly well-known 12 industry as to who is out there and what is 13 running. 14 KATE McGRANN: And was that study done? 15 JOHN JENSEN: I can't remember. T'm 16 sorry. 17 KATE McGRANN: We have been talking 18 about particularly the weather conditions in Ottawa 19 and trains that are running in similar conditions 20 elsewhere, but I understand that the City also had 21 some requirements about top speeds and a low floor 22 component. Are you familiar with what I am talking 23 about? 24 JOHN JENSEN: That would have all been 25 done as part of the planning in the EA stage, so

1 that was all mapped out before I took on the 2 project in terms of the requirements that the City 3 was looking for.

4 KATE McGRANN: And either you or my audio cut out, so I heard that was all done for the planning in the -- and there was a stage you mentioned and I didn't catch it.

5

6

7

25

8 JOHN JENSEN: Oh, I'm sorry, all of 9 those decisions as to the type of vehicle, whether 10 it was light rail and low floor and those kinds of 11 decisions were being made at the planning stage and 12 at that approval stage, and I think, if I recall, 13 the City did a technology report where they 14 evaluated all the different types of technology and 15 they selected a certain type of technology and that 16 is what was provided to us to deliver it.

17 KATE McGRANN: And who headed up the 18 work on the vehicles in particular in the planning 19 stage that you just described?

20 JOHN JENSEN: Well, if I recall 21 correctly, that would have been one of the planning 22 managers, either John Moser or Vivi Chi reporting 23 to Nancy Schepers, I believe. So that would have 24 been done through the planning side.

KATE McGRANN: Okay, so by the time you

1 get involved, the requirements for the vehicle have 2 already been explored and determined? 3 JOHN JENSEN: For the most part, yeah. 4 We were building light rail. The desire was for 5 low floor. Those were the pieces that were in 6 place. 7 KATE McGRANN: And do you remember if 8 the speed requirements were in place? 9 JOHN JENSEN: Oh, I don't know whether 10 the speed requirements -- I am not sure what speed 11 requirements you are referring to, because the 12 speed requirements on a system are defined by the 13 engineering of the system, in other words -- and 14 the trains, so how fast they can go and how slow 15 they can go. 16 KATE McGRANN: So my understanding is 17 that there was --18 JOHN JENSEN: A lot of the speed 19 requirements would have also been defined by the 20 passenger volumes that are being carried, the 21 round-trip times that are desired. So a lot of 22 that would have come out of the planning, but 23 generally speed is -- top speed, for example, is 24 defined by the system technology or it is defined 25 by whatever regulation is in place in terms of how

fast should you go. And the top speed of the vehicle is also defined by the design of the vehicle. So there is a lot of components to speed. KATE McGRANN: Okay. I understand that the City was looking for a service-proven vehicle for Stage 1. Is that a concept that is familiar to you? JOHN JENSEN: Yes. KATE McGRANN: And what did you understand "service-proven" to mean? Well, service-proven to JOHN JENSEN: me means we are not on the bleeding edge in terms of we are not paying or taking the risk of taking on research and development for something that is brand new that has never been tested. You know, that increases the risk profile of the project. If risk is to be managed in a reasonable way, then approaching a vehicle from a sense that the vehicle or its critical components have operated successfully elsewhere in similar conditions increases the likelihood of having a successful vehicle that is not going to have problems.

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

16

17

18

19

20

21

22

23

24

25

1 KATE McGRANN: And did the City have a 2 threshold that they had determined as to what would 3 qualify as service-proven and what would be too 4 much innovation or too much being on the bleeding 5 edge, as you put it, for this particular project? 6 JOHN JENSEN: I can't recall 7 specifically, but that would have all been decided 8 through our work with Capital Transit Partners and 9 their experience with vehicles in terms of 10 determining what determines service-proven. 11 And who would have been KATE MCGRANN: 12 leading those discussions and providing them with 13 instructions with respect to that aspect of the 14 project? 15 JOHN JENSEN: Well, our Chief Engineer 16 would have been leading that with Capital Transit 17 Partners and their lead in terms of determining 18 what is service-proven. 19 KATE McGRANN: And do you remember the 20 name of that individual? 21 JOHN JENSEN: Well, our Chief Engineer 22 would be Gary Craig, who I just found out has 23 recently passed away. 24 KATE McGRANN: Yeah, I understand the 25 approach taken to procuring the vehicle involved

decoupling the vehicle selection from the selection 1 2 of the consortium. Do you know what I am referring 3 to? 4 If you are referring to JOHN JENSEN: 5 the vehicle was not presented at the RFQ stage but б it was presented at the RFP stage, is that what you 7 are asking? 8 That is part of what I KATE McGRANN: 9 am asking. I want to understand the approach that 10 the City took to procuring the vehicles as part of 11 the overall procurement of the system. 12 JOHN JENSEN: Well, once the decision 13 was made to move to a design/build-type model and 14 ultimately a design/build/maintain with the 15 finance, but the key components are the 16 design/build/maintain, the vehicle was included in 17 the selection of each team. So in other words, the 18 vehicle was not procured separately. 19 And the reason for that is because of 20 something called the wheel-rail interface. Τn 21 other words, the train runs on the tracks and it 22 connects to the overhead wires, so the train is 23 connected to the system and in the sense that you 24 can put the responsibility of all the design and 25 development of the train, the vehicles and the
<sup>1</sup> system and the tracks and everything else together <sup>2</sup> in one package, and then you have got some <sup>3</sup> ownership in terms of quality, long-term <sup>4</sup> maintenance life cycle as opposed to procuring it <sup>5</sup> separately where the City would then take all the <sup>6</sup> risk of that interface.

And our objective through the whole process was to keep the risk profile as low as possible for the City.

7

8

9

KATE McGRANN: Just stepping back for a second and asking a general question about that objective, I understand that an objective was to keep -- transfer as much risk as possible away from the City, keep the risk as low as possible for the City; is that right?

JOHN JENSEN: Not quite. The objective JOHN JENSEN: Not quite. The objective was to have the risk held by the party that was best able to manage that risk. So the City always retained some risk in certain areas because the City was better able to manage that risk.

But where the proponent was better able to manage the risk, then the objective was to transfer the risk to the proponent.

KATE McGRANN: Okay. Turning back to
 the vehicle selection, it is my understanding that

1 RTG's first selection of a vehicle provider was a 2 company named CAF; are you familiar with that? 3 JOHN JENSEN: I am familiar with that 4 company. 5 KATE McGRANN: Okay. And are you aware б of RTG advancing CAF as a vehicle provider for this 7 project? 8 I am trying to think back JOHN JENSEN: 9 In all of our compliance reviews, I do now. 10 believe one -- at least one vehicle was deemed 11 non-compliant, and that would have meant that the 12 proponent would have either had to bring that 13 vehicle up to a compliant level or they would have 14 had to select another vehicle. 15 KATE McGRANN: And do you have any 16 recollection of RTG's first vehicle selection being 17 deemed non-compliant? 18 JOHN JENSEN: It is vague. I am trying 19 to dig back in my mind just exactly what went on 20 with that in terms of why it was non-compliant, but 21 I can't remember specifically. 22 But certainly the process was set up in 23 the procurement so that the proponents could meet 24 with us on a regular basis to confirm compliance 25 with various elements of their bid, and the

objective there was to make sure that we had a
 biddable and bankable project and also that we had
 a number of good, solid compliant teams coming
 forward with bids.

5

6

7

8

9

10

11

25

So the objective there was to help make sure that we got good, solid compliant bids from a good selection of proponents.

KATE McGRANN: And how closely involved were you in the back and forth with the bidders through the in-market period about the vehicles in particular?

JOHN JENSEN: Well, I certainly would have been there for many of the meetings to help lead the discussion, but those were always inclusive of a broad spectrum of the whole team. So our owner's engineer was there. Financial people would be there. Legal would be there, appropriately at any of the meetings.

KATE McGRANN: And I understand that
 after CAF was disallowed or deemed non-compliant,
 RTG brought Alstom forward. Does that accord with
 your recollection?

JOHN JENSEN: RTG ultimately brought
 Alstom forward, yes.

KATE McGRANN: And do you have a

1 recollection of when in the process Alstom was 2 brought forward as RTG's vehicle provider proposal? 3 JOHN JENSEN: Well, they would have 4 been brought forward early enough in the RFP 5 process so that RTG would have been able to prepare б their bid. 7 KATE McGRANN: And do you have a sense 8 of when that would have been? 9 JOHN JENSEN: Well, it would have 10 been -- I am just now having a difficult time being 11 specific in my memory because it was awhile ago, 12 but it would have been very early in the RFP 13 process. 14 KATE McGRANN: Do you recall anyone 15 expressing any concerns internally or otherwise 16 about the timing of Alstom's entry into the 17 procurement experience, whether they had had the 18 opportunity to go through all of the confidential 19 meetings that you have described and things like 20 that? Any concerns about that? 21 JOHN JENSEN: I am not aware of any. 22 And again, it is a long time ago, but there is 23 nothing that sticks out in my mind. My view is 24 that the process proceeded as it should have, and 25 there wasn't anything that I can think of right now <sup>1</sup> that red-flagged it.

2 KATE McGRANN: And in terms of whether 3 the City qot a service-proven vehicle in the way 4 that it had wanted to, what was your understanding 5 about whether that objective was achieved? 6 JOHN JENSEN: Well, ultimately the bids 7 went through and the vehicle was deemed compliant. 8 So as far as I am concerned, it went through 9 properly. 10 KATE McGRANN: Did you have an 11 understanding of what adjustments and changes would 12 be required for the vehicle in order to get to 13 where it needed to be for the City? 14 JOHN JENSEN: I am sorry, I don't quite 15 understand the question. 16 Did you understand that KATE McGRANN: 17 Alstom was proposing a model that it would then 18 need to make adjustments to in order to use it for 19 the City's purposes? 20 Adjustments? I am not JOHN JENSEN: 21 aware of anything of substance that arose. There 22 certainly would have been adjustments in terms of 23 the length of the individual vehicle, but that 24 isn't fundamental to the design. 25 I am not aware of any fundamental

1 adjustments, but again, I am going back, you know, 2 over a decade here and I am just trying to think. 3 But I am not aware of anything that stands out in 4 my mind. 5 KATE McGRANN: It is my understanding 6 that the vehicle that was put forward as the sort 7 of reference vehicle was the Citadis Dualis. Does 8 that ring a bill for you? 9 The Citadis rings a bell, JOHN JENSEN: 10 yes. 11 KATE McGRANN: And the Citadis Dualis 12 in particular? 13 JOHN JENSEN: Again, that is awhile 14 ago, and you know, I have seen many vehicles since 15 So I have got to be careful I am not mixing then. 16 up one versus another and one that I have seen more 17 recently and -- but as far as the vehicle was 18 concerned, when it went through its evaluation by 19 the Technical Evaluation Committee and they were 20 looking for compliance of the vehicle, the vehicle 21 that was submitted was deemed compliant. 22 Otherwise, it wouldn't have proceeded through the 23 procurement. 24 KATE McGRANN: To your knowledge, were 25 any waivers of requirements granted with respect to

1 the Alstom vehicle? 2 JOHN JENSEN: I can't recall that. 3 KATE McGRANN: And who would have 4 been -- who would have determined whether a waiver 5 of compliance would be granted in respect of 6 the --7 JOHN JENSEN: Well, the waiver of 8 compliance would have gone through the evaluation 9 There was a very, very well-structured, process. 10 complex evaluation structure, well-defined, and it 11 would have worked its way through that system. 12 But I can't recall right at the moment 13 whether there were any waivers given. 14 KATE McGRANN: And if you can, and you 15 can just tell me, but can you describe to me what 16 the approach was for considering waivers 17 particularly with respect to the vehicles? 18 JOHN JENSEN: Well, the waiver would 19 have been evaluated by the Technical Evaluation

<sup>20</sup> Committee to determine if it was material; in other
 <sup>21</sup> words, if it affected ultimately the product.

And then it would have been run up through the governance structure to get final approval.

25

But again, I don't recall anything

1 standing out for me in that area. That doesn't mean my memory isn't inaccurate here, so it is 2 3 just, you know, I can't remember. 4 KATE McGRANN: When you say that it 5 would be run up through the governance structure, is this the kind of thing that would be brought 6 7 before the Executive Steering Committee for a 8 decision? 9 JOHN JENSEN: Well, if it was material, 10 yes, it would have. 11 KATE McGRANN: And then with respect to 12 the selection of Thales for the computer-based 13 train control system and related components, do you 14 recall if going into the process the City had a 15 particular system or supplier in mind? 16 JOHN JENSEN: We did not have a 17 particular system or supplier in mind. We were 18 looking for qualified bidders who had experience in 19 the field and who met the requirements of the RFP 20 and the specifications. 21 KATE McGRANN: Do you recall who had 22 been selected to supply the system on the 23 North-South line? 24 No, I don't. T know JOHN JENSEN: 25 Siemens was in the game and Siemens does its own

1 systems, and I can't remember if there was a 2 separate provider or if Siemens was going to be the 3 systems provider and do the full-meal deal on that 4 That was awhile ago. I can't remember. project. 5 KATE McGRANN: Do you recall at the б time that the procurement was outstanding during 7 the in-market period whether the City had any 8 knowledge of whether the Thales system had been 9 integrated with Alstom vehicles before? 10 JOHN JENSEN: I can't say, but I mean, 11 the output specifications would have spoken to the 12 integration. So it would have technically had to 13 be compliant or it wouldn't have made it through 14 the process. 15 KATE McGRANN: And just to help me 16 understand, when you say "the output specifications 17 would have spoken to the integration", what do you 18 mean? 19 JOHN JENSEN: Well, the output 20 specifications define what the system is supposed 21 to do, and in the design/build model the bidder 22 puts forward their submission and their team and 23 they have to demonstrate as part of that that they 24 meet -- they are in compliance with the output 25 specifications.

1 And then after that, once they get rolling and start building, they are responsible 2 3 for the design, the integration, everything. That 4 is the whole point of that design/build. 5 Do you recall at any KATE McGRANN: 6 point during your time on the project whether there 7 was conversations about the fact that the vehicle 8 and Thales system would be integrated for the first 9 time ever on this project, whether there were any 10 concerns about that, that introducing any 11 additional risk or requiring any additional space 12 to integrate properly? 13 To the best of my memory, JOHN JENSEN: 14 I don't recall any issues there. 15 KATE McGRANN: And leaving issues 16 aside, do you recall any discussion about that 17 being the case and what might be done to account 18 for that, that new element of the system? 19 To the best of my JOHN JENSEN: 20 recollection, I don't recall anything that stands 21 out in that area. 22 KATE McGRANN: Okay. 23 And again, the nature of JOHN JENSEN: 24 the design/build is that the responsibility for the 25 design, the integration, the ultimate operation and <sup>1</sup> the long-term maintenance and stability lies with <sup>2</sup> the design/builder. So in this case, RTG, the full <sup>3</sup> responsibility for that lies with them. That is <sup>4</sup> the basis of that design/build model and --

KATE McGRANN: Does -- sorry, go ahead.
 JOHN JENSEN: The design/build/maintain
 model actually.

<sup>8</sup> KATE McGRANN: I am thinking about your <sup>9</sup> comments about the City not wanting to be on the <sup>10</sup> bleeding edge of things, as you put it, and I am <sup>11</sup> wondering whether there was any consideration on <sup>12</sup> the City's side about whether this particular <sup>13</sup> pairing of Alstom and Thales represented that kind <sup>14</sup> of a new unproven sort of combination?

JOHN JENSEN: To the best of my recollection, I do not recall there being an issue in that area.

18 KATE McGRANN: Could you speak to the
 19 involvement of OC Transpo in the work that was done
 20 to prepare this project to go to procurement?

JOHN JENSEN: Well, first and foremost the General Manager of OC Transpo was a member of the Executive Steering Committee, and therefore, the General Manager of OC Transpo had full knowledge of all of the decisions that were being <sup>1</sup> made about the project and had full opportunity to <sup>2</sup> input into that process and was also kept informed <sup>3</sup> about everything that was going on.

4 OC Transpo would have been consulted 5 and involved in the original planning of the б project, the designs, and that process that brought 7 the project to a functional level and approved for 8 moving the next step to procurement, so they would 9 have been considered in terms of their needs, 10 ridership, functionality of the system, all of 11 those things would have been considered at that 12 planning stage. I was not part of that.

And then once the project was underway, OC Transpo's primary role would come into play sometime after the procurement was advanced, once the project got to a point where OC Transpo needed to be engaged and bring staff on board for training and those elements where they were directly involved.

KATE McGRANN: Focussing for a second on the consultation and involvement of OC Transpo in the planning and design, you said that was during a period that you weren't involved and I just want to understand, because I think I might be a little bit confused, was it the case that -- when

1 did you get involved in the planning and the design 2 of the project? 3 JOHN JENSEN: I got involved in the 4 project after it was approved as a project by the 5 City to move from the planning stage to the 6 procurement stage. 7 So the planning department had control 8 of that project right through into the 9 environmental assessment, vehicle selection, 10 design, initial design of the system, ridership projections - all of that was handled at the 11 12 planning phase and I wasn't involved in that. 13 When I stepped in to become involved 14 was when Council approved that project to move to 15 procurement, the funding was available and the 16 funding approved, and it was at that stage that we 17 took it and moved it to the next level. 18 So the systems -- the systems 19 functionality would have all been predetermined at 20 that point and we were simply taking it to the next 21 level to procure it. 22 KATE McGRANN: And is that -- during 23 your -- let me try this a different way, sorry. 24 Were you involved during the time that 25 Capital Transit Partners and members of City staff

1 are working to bring the level of design to the 2 point that it is ready to be put into the PSOS, for 3 example?

JOHN JENSEN: Well, we -- yeah, we took the project at the point where we started to actually make the full-blown PSOS, advance the design.

4

5

6

7

8 You know, projects like this go through 9 several levels of design. There is a functional design which is at the planning stage, where the 10 11 project is designed enough to determine the 12 alignment, the number of stations, what type of 13 technology, and what the system needs to accomplish 14 and the EA process is engaged in and advanced.

15 And once it moves past that stage and 16 it is now funded and approved as a project, then we 17 took it over and then took the design at that point 18 and started advancing it for procurement, taking it 19 into preliminary engineering.

20 KATE McGRANN: So if I want to make 21 sure that you and I are talking about the same 22 thing, the part of the design that you were 23 involved in is the preliminary engineering phase, 24 not the functional design phase? 25

JOHN JENSEN: That's right.

KATE McGRANN: And can you speak at all to OC Transpo's involvement in the functional design phase? Do you have any information about what that looked like?

1

2

3

4

5

6

7

8

JOHN JENSEN: No, I wasn't involved in that process. I was at that point in time managing the O-Train and other elements, so I didn't get engaged in that.

9 So I can't say what was and wasn't 10 done. But I would assume that as part of the 11 planning process and as part of the EA process, 12 planning would have been representing Ottawa 13 Transit and engaging them in the expectations of 14 the project. But someone else was doing that. So 15 I am simply speculating on what probably occurred 16 at that point in time.

KATE McGRANN: Understood. With respect to the preliminary engineering, can you describe for me in a little bit more detail what OC Transpo's involvement looked like beyond the fact that the General Manager of OC Transpo was a member of the Executive Steering Committee?

JOHN JENSEN: At that stage of the process, the involvement was the OC Transpo General Manager on the Steering Committee, because it was

1 really work that was already pre-approved in terms 2 of its direction, so we were just advancing the 3 design. 4 Did you have any KATE McGRANN: 5 involvement in the decision that OC Transpo would 6 be the operator of the Confederation Line? 7 JOHN JENSEN: Well, I was part of that 8 decision-making process that the City made, yes. 9 KATE McGRANN: And can you describe to 10 me what that process involved and what it looked 11 like? 12 JOHN JENSEN: Well, the decision to not 13 include the operator in the system was done as part 14 and parcel of a Deloitte study or a Deloitte 15 report, whatever you want to call it, where we did 16 under Deloitte's guidance an in-depth analysis of 17 which procurement model to move forward with. 18 And the decision on operations in or 19 out was carried out as part of that process, and 20 the foundation of that decision for operations in 21 or out had to do with the nature of the future of 22 the system and how it would operate and recognizing 23 that there would be future extensions potentially 24 of the existing line plus other lines and the 25 importance of having OC Transpo being able to

integrate all of its operations in terms of buses
 and trains in emergencies and through multiple
 extensions of the system.

And it was at that point that the decision was made that the operations should stay with OC Transpo in the best interests of the system going forward.

<sup>8</sup> KATE McGRANN: And do you recall as <sup>9</sup> part of all of that work whether there were areas <sup>10</sup> of particular consideration that were identified <sup>11</sup> that the City should keep in mind with respect to <sup>12</sup> the required interface between OC Transpo and the <sup>13</sup> maintainer once the system went into service?

14 Other than -- I mean, JOHN JENSEN: 15 primarily that was handled through the Project 16 Agreement and the PSOS in terms of defining all of 17 those interfaces between OC Transpo and RTG, and 18 there was considerable work done and considerable 19 language in those documents covering how the 20 handover interface would occur at the maintenance 21 facility between drivers, error reporting, training 22 programs, Control Centre operations, the 23 responsibility of RTG to respond to incidents and 24 support operations requirements in terms of 25 operating the system.

And all of that was very, very detailed And covered extensively in the Project Agreement and in the output specifications going forward so that it would all -- there wouldn't be any question as to who is doing what.

KATE McGRANN: And were there any particular people, including City advisors, who were focussed on planning out how that interface would work?

6

7

8

9

25

10 JOHN JENSEN: Well, Capital Transit 11 Partners had the primary role of putting that 12 interface together, and I am just -- I am trying to 13 remember and I can't really clearly remember who 14 all was engaged in that process, but certainly 15 there were discussions with OC Transpo and of 16 course we had to deal with -- we had the Collective 17 Agreement as a foundation as to what should happen 18 there, and plus Capital Transit Partners' 19 experience with other systems as they operate.

KATE McGRANN: And do you recall if there were any particular systems that were used as a precedent for the work done on the interface between the operator and the maintenance on this project?

JOHN JENSEN: I can't recall if there

1 was a specific system that was in play or if it was 2 a more general view. 3 KATE McGRANN: With respect to the 4 selection of the design/build/finance/maintain or 5 the DBFM model that was used, can you explain the roles of the various advisors who assisted the City 6 7 in coming to the decision to proceed by way of 8 DBFM? 9 JOHN JENSEN: So just to clarify, you 10 are asking -- again, you are asking --11 Which advisors were KATE MCGRANN: 12 involved in the consideration of what procurement 13 model to use and what were their roles in that 14 work? 15 JOHN JENSEN: Okay, so the primary on 16 that would have been Deloitte. Deloitte did 17 considerable work to prepare a procurement options 18 analysis and report with the input of the various 19 City representatives that were on the team, Capital 20 Transit Partners, legal. Infrastructure Ontario 21 had a role in providing information about 22 procurement models. 23 So it was a cross-section of the entire 24 team that was involved in that process. And then 25 once the Deloitte report was completed with the

recommendations, then that would have gone up the
 governance structure to the Executive Steering
 Committee ultimately for the final decision.

<sup>4</sup> KATE McGRANN: And do you remember
<sup>5</sup> which factors weighed in favour of the DBFM in your
<sup>6</sup> mind?

JOHN JENSEN: Well, I mean, the advantages of the design/build/maintenance-type model really lie around a better risk profile for the City because the design, construction and integration lies in the hands of one single entity with one throat to choke.

13 And when you add long-term maintenance 14 into that with some skin in the game in terms of 15 lenders and capital, there is a considerable 16 driving force for someone like RTG to do a good 17 job, both in terms of design, making good design 18 and maintenance decisions, making good long-term 19 decisions, because they are on the hook for it, and 20 it creates a model where the City can provide 21 oversight of a contract as opposed to trying to 22 manage each component by themselves.

Plus the design/build model tends to be
 better from a schedule perspective; in other words,
 it is completed more quickly. And it tends to be

<sup>1</sup> better from a cost perspective because you can take <sup>2</sup> advantage of the design/builders' secret sauce, so <sup>3</sup> to speak. They have their proprietary methods that <sup>4</sup> they can do better than anyone else and for a <sup>5</sup> better cost.

So all in all, the design/build model creates a good profile for the City going forward.

6

7

8

9

10

KATE McGRANN: And what is your understanding of why this model is better from a schedule perspective?

JOHN JENSEN: Well, it is better from a schedule perspective because having a single entity responsible for all elements of the design and the build and the integration means that they can optimize the schedule from their perspective with their partners.

17 In a traditional design/bid/build, you 18 are running separate procurements for everything 19 and it ends up that you can't necessarily overlap 20 You might have to do them sequentially, parts. 21 whereas a design/builder can do things in parallel, 22 change the order, they can respond to issues more 23 quickly because they can do a quick design 24 alteration and then adjust it with their partners. 25 So in the end, schedule-wise the

<sup>1</sup> design/build does tend to be better than a
<sup>2</sup> design/bid/build.

<sup>3</sup> KATE McGRANN: And then what does <sup>4</sup> adding in the finance component add to benefits in <sup>5</sup> the project from the City's perspective?

6 Well, one of the elements JOHN JENSEN: 7 of adding the finance in is it brings lenders and 8 investors into play, and they tend to be very 9 interested in making sure that they benefit from 10 the process. So they tend to provide a little bit 11 of additional oversight and impetus on the 12 contractor.

Plus, in various shapes and forms there is still money sitting on the table that needs to be paid out to the proponent, so there are opportunities, for example, for the City to hold back payments and those types of things to create incentive.

And then there is the financing costs.
 The longer the project takes, the more it costs the
 design/builder in terms of financing costs.

So there are plenty of incentives for
 them to get it right.

KATE McGRANN: And in your mind at the
 time that this decision was made, was there any

<sup>1</sup> benefit to having third party lenders as a <sup>2</sup> moderating influence on the partnership between the <sup>3</sup> City and the ProjectCo? Obviously you go into this <sup>4</sup> hoping for the best, but in the event that disputes <sup>5</sup> arise, was there any view to whether having third <sup>6</sup> party lenders may act as a force that would push <sup>7</sup> the project forward?

JOHN JENSEN: I am not sure we looked at having the lenders play that role.

8

9

KATE McGRANN: Do you remember any discussion about the lenders either directly or indirectly having that kind of an effect on the project?

JOHN JENSEN: Well, the primary discussion around the lenders having an impact would be the lenders in relationship to ProjectCo, to RTG. That was the primary -- that was the primary view.

KATE McGRANN: Okay. And do you remember any discussion about that sort of direct or indirect influence on the partnership? JOHN JENSEN: It is awhile ago. Nothing is coming to mind. That doesn't mean that those discussions didn't happen. It is just I don't recall right now.

1 PETER WARDLE: If you don't mind, Ms. 2 McGrann, you keep using the word "partnership". 3 The Project Agreement is very specific that it is 4 not a partnership. I know all of the witnesses 5 refer to it as a "P3 model", but the Project 6 Agreement makes it very clear it is not a 7 partnership between the City and RTG. 8 KATE McGRANN: The relationship between 9 the City and RTG is how I will refer to it going 10 forward. 11 PETER WARDLE: Thank you. I am not 12 trying to be difficult. I just don't want to have 13 somebody later suggest that there is something here 14 that isn't. 15 KATE McGRANN: Not at all. 16 Ultimately, the finance -- the third 17 party finance group is sort of taken out of the 18 picture when the City executes a debt swap. Are 19 you familiar with the fact that that took place? 20 I'm sorry, ask the JOHN JENSEN: 21 question again? I am not sure I understood you. 22 KATE McGRANN: Are you aware of the 23 fact that the City executed a debt swap to 24 effectively step into the shoes of RTG's lenders 25 part of the way through the construction phase of

<sup>1</sup> the project?

JOHN JENSEN: Part of the way through the construction phase? No, I am not aware of that.

<sup>5</sup> I am actually -- just to be clear, I <sup>6</sup> have very little knowledge of anything that <sup>7</sup> occurred after contract award because I was busy <sup>8</sup> elsewhere, and frankly, I really didn't track <sup>9</sup> things much.

And so my knowledge of what occurred after the contract was awarded and I went and I left is very, very, very limited. I wasn't even aware that the system was having as many issues as it turns out it was having. I was quite surprised to discover that.

<sup>16</sup> So and since I have retired, I have <sup>17</sup> paid no attention to any work whatsoever. I have <sup>18</sup> been busy retired.

KATE McGRANN: That sounds absolutely lovely. During the time that you were working on the project, was there any discussion about step-in rights that might be available to the City with respect to the financing component of the DBFM? JOHN JENSEN: Those discussions would definitely have taken place. That would have <sup>1</sup> primarily been done between the lawyers and the <sup>2</sup> financial advisors, and any decisions in that area <sup>3</sup> would have gone up through the Executive Steering <sup>4</sup> Committee.

KATE McGRANN: And do you recall any decisions being made about that while you were working on the project?

5

б

7

8

9

10

11

12

JOHN JENSEN: I can't remember any specific decisions, but what I can say is that every effort was made by the legal team and the financial team to make sure that the appropriate mechanisms were in place.

KATE McGRANN: And do you
specifically -- and I will need to be careful here
because I am not interested in hearing about
any -- or asking you to share any legal advice that
was sought or was given to the City.

<sup>18</sup> But more generally, do you recall <sup>19</sup> discussions about whether step-in rights would be <sup>20</sup> required and what they would look like and in what <sup>21</sup> circumstances they would be triggered, or anything <sup>22</sup> like that?

JOHN JENSEN: I can say that those discussions would have occurred. I can't remember the specifics of any of those discussions, but we

1 would have relied on BLG and on our financial 2 advisors and on the City's financial department to 3 make sure -- and the City's legal department for 4 I think I forgot to mention we had that matter. 5 someone from City legal on the team as well. 6 I would have relied on those players on 7 the team to make sure that the appropriate discussions and language was put into place. 8 9 KATE McGRANN: At the time that the 10 procurement for Stage 1 was in-market and before 11 that, the City was already planning for eventual 12 expansion of the LRT system; is that fair? 13 JOHN JENSEN: There was certainly 14 conversation occurring about that. 15 KATE McGRANN: How was the potential 16 for expansion of the system accounted for in the 17 procurement of Stage 1? 18 JOHN JENSEN: I don't -- I can't 19 remember what contractual language there is about 20 joining up and expanding, but there was definitely 21 language in the agreement and in the output 22 specifications to make sure that the system could 23 handle capacity out beyond 2035 with options to 24 extend station lengths, options to purchase more 25 vehicles if that ended up being the play and that

1 was how it went, and there was general language, 2 and I can't remember what the language is, but I 3 know we had a discussion about it and put some 4 general language in the Project Agreement that 5 allowed us to extend the system in the future.

6 And it would have been fairly general 7 language because, without knowing what the system 8 was going to look like, we wouldn't want to tie the City's hands going forward in the future, but we 10 did -- I am 99 percent sure there is language in there that says that we can expand the system and 12 it allows that to happen. I just can't remember 13 where it is.

9

11

14 KATE McGRANN: Fair enough. Do you 15 remember any particular discussions about the 16 financing component and how the eventual potential 17 expansion of the system would affect the financing?

18 JOHN JENSEN: Not specifically, but 19 that would have -- that discussion would have taken 20 place and there -- I know that the City Treasurer 21 and the Deputy City Treasurer and our financial 22 advisors were very carefully looking at those types 23 of things. I just can't speak specifically to it. 24 KATE McGRANN: Okay. With respect to 25 the standards and like industry standards that

<sup>1</sup> would be required from a safety perspective, from a <sup>2</sup> systems integration perspective, can you talk to me <sup>3</sup> about how those were considered, selected and built <sup>4</sup> into the Project Agreement?

5

б

7

8

9

10

JOHN JENSEN: Well, Capital Transit Partners would have been relied upon to ensure that the output specifications covered all industry standards, regulations, the optimal safety. We would have relied on Capital Transit Partners to put all that together.

<sup>11</sup> We would have also relied on the legal <sup>12</sup> team to look through and make sure that all <sup>13</sup> regulations, legislation, anything like that was <sup>14</sup> included in the language and was covered.

<sup>15</sup> But the purpose of the owner's <sup>16</sup> engineer, Capital Transit Partners, is to bring <sup>17</sup> that expertise to the table so that we can rely on <sup>18</sup> it.

KATE McGRANN: Do you remember if any
 decision points on industry standards, which to
 use, et cetera, were escalated to the Executive
 Steering Committee?

JOHN JENSEN: Sorry, ask that again.
 KATE McGRANN: Do you recall if any
 decisions about the industry standards that would

1 be used for this project were escalated to the 2 Executive Steering Committee? 3 JOHN JENSEN: If you are asking if 4 there were any concerns about standards or whether 5 or not we were identifying all standards, I don't 6 recall that occurring. 7 We were relying on our certified 8 engineers to make sure that all the appropriate 9 standards and regulations were applied. So I don't 10 recall any issues in that area. 11 KATE McGRANN: Any decisions between 12 competing standards to use, for example? 13 I don't recall, no. JOHN JENSEN: 14 KATE McGRANN: With respect to the use 15 of milestone payments for this project, were 16 milestone payments always the only option that was 17 available for interim payments to be made, or were 18 other approaches considered as well? 19 JOHN JENSEN: Well, all of that would 20 have been part of the study that we did with 21 Deloitte on procurement options and the best way to 22 proceed with the project, and that would have all 23 been input from our financial advisors, from the 24 City financial folks. 25 And that conversation would have gone

1 up through Executive Steering Committee to land on 2 the final model that the City agreed to. 3 KATE McGRANN: Okay, and do you recall 4 whether any approaches other than the milestone 5 approach were considered? 6 JOHN JENSEN: I can't recall the 7 discussion on that, but I am sure that we looked at more than one approach. I can't imagine that we 8 9 didn't. 10 KATE McGRANN: And if you don't 11 remember, you'll just let me know, but do you 12 recall what factors weighed in favour of selecting 13 the milestone approach? 14 JOHN JENSEN: I can't recall. I can't 15 recall. The financial people that were on the 16 project would have a much better memory of that 17 than I would. 18 KATE McGRANN: Did you have any 19 involvement in negotiating funding from the 20 Provincial or Federal Government? 21 JOHN JENSEN: I was involved in 22 negotiating the agreements. 23 KATE McGRANN: And was there a 24 requirement from either the Provincial or Federal 25 Government that this project proceed by way of a P3 or an AFP?

1

2 JOHN JENSEN: I don't recall a 3 requirement being put forward. We certainly went 4 through a full selection process. I do recall that 5 when we brought Infrastructure Ontario on board, б their typical position is that long-term finance 7 needs to be part of the process in order for them 8 to be involved, but I don't recall -- I don't 9 recall being directed to do a P3. 10 KATE McGRANN: And do you --11 JOHN JENSEN: To the best of my memory, 12 I don't recall that. 13 KATE McGRANN: Any particular 14 challenges in negotiating the funding agreements 15 with the Provincial and Federal Government? 16 JOHN JENSEN: I don't recall any 17 challenges. I recall the process proceeding and 18 there was discussion, but I don't recall any --19 ultimately we signed the agreements and they were 20 approved by the Executive Steering Committee, so... 21 KATE McGRANN: Did the Province require 22 any sort of project management plan as part of its 23 agreement to finance the project? 24 I can't recall the JOHN JENSEN: 25 specifics of any of the agreements, but what is

1 standard in any agreement with the Province or the 2 Feds is they have some measure of oversight. So 3 they'll want to know what the program is. They'll 4 want to track it. They'll want to have meetings 5 going forward to follow progress. So they do their due diligence and they have oversight, and there 6 7 would be something in the MOU that would speak to 8 I can't remember specifically what it was. that.

<sup>9</sup> KATE McGRANN: When you say that there <sup>10</sup> would be something in the MOU, are you referring to <sup>11</sup> the sort of agreement in principle or greenlight <sup>12</sup> letter that came in advance of the official <sup>13</sup> commitment?

JOHN JENSEN: I don't think I am referring to any one specific thing. I mean, in the end we would have had an agreement for the -- a funding agreement with the Federal partner and with the Provincial partner.

<sup>19</sup> And in those funding agreements that <sup>20</sup> were negotiated, there would have been and there <sup>21</sup> was oversight provisions for the Provincial and the <sup>22</sup> Federal Government, and I recall having regular <sup>23</sup> meetings with those partners and giving reports and <sup>24</sup> updates on the progress of the project and <sup>25</sup> answering questions.

1 KATE McGRANN: All right. When you say 2 you would attend regular meetings with them, how 3 frequently would those meetings take place? 4 JOHN JENSEN: Oh, I don't know. Τ 5 think quarterly comes to mind, but I can't say that б for sure. 7 KATE McGRANN: And do you recall if 8 there was any particular template or form that you 9 used for the reporting that you made to the 10 Government, Provincial and Federal? 11 I can't recall. JOHN JENSEN: There 12 were at least minutes from the meetings, but I 13 can't recall the other reporting. 14 There was probably financial reporting 15 to them, I am positive, but I can't recall what it 16 looked like. 17 Do you recall -- and I KATE McGRANN: 18 apologize, I'm jumping around with topics here, but 19 turning back to the milestone payments for a 20 moment, do you recall if there was a precedent 21 project or projects that were used to model the 22 milestone approach in this particular instance? 23 JOHN JENSEN: I don't recall. I know 24 the financial advisors and the City financial folks 25 would have looked at it very carefully, but I can't

1 recall. 2 KATE McGRANN: With respect to the 3 payment mechanism for the maintenance phase, were 4 you involved in determining what that would look 5 like? 6 JOHN JENSEN: Well, the payment 7 mechanisms would have been defined by the financial 8 team. 9 KATE McGRANN: Okay. And were you 10 involved in that --11 JOHN JENSEN: And they would have --12 the financial team would have taken the lead on 13 developing the payment mechanisms. I am sure they 14 would have worked with Infrastructure Ontario as 15 well as part of that process. 16 And then all of that would have gone up 17 through the Executive Steering Committee. 18 KATE McGRANN: And were you involved in 19 any of the work that was done to prepare the 20 payment mechanism? 21 JOHN JENSEN: Peripherally I would have 22 been involved as a lead on the project, but my 23 reliance would have been on our legal -- on our 24 financial and on our legal team, and then 25 ultimately our financial lead would report it up

1 through the Executive Steering Committee, which 2 then would have approved whatever we landed on at 3 the time. 4 KATE McGRANN: And did you have a 5 general understanding of how the payment mechanism б would operate in practice? 7 JOHN JENSEN: I would have at the time. 8 I cannot recall right now. 9 KATE McGRANN: Do you recall that there 10 would have been a component that involved 11 deductions from monthly payments in the event that 12 certain requirements were not met? 13 JOHN JENSEN: T believe that is 14 correct, but again, I am going back on memory, 15 so... 16 KATE McGRANN: And do you recall 17 whether there was also a point system in play that 18 would be used to measure performance against a set 19 of requirements? 20 JOHN JENSEN: Yes. There was an 21 extensive points system contained in the -- what is 22 it, Schedule 15 -- the maintenance agreement, 15-3, 23 or whatever it is, that a lot of work was done 24 putting that together to develop a very clearly 25 defined regime for the maintenance contractor or
RTG to adhere to and a points system that would allow it to be tracked.

1

2

9

10

11

12

And there were threshold points where certain actions could be taken by the City if they exceeded the points in those areas, I mean, all the way up to the ultimate nuclear of replacing the maintenance provider, but that is not the kind of thing you want to do if you don't have to.

KATE McGRANN: Fair enough. With respect to the payment deductions, do you remember any discussions about how those would operate at all?

JOHN JENSEN: Well, I can tell you that there were discussions. The bulk of those discussions would have been held with our legal team and our financial team and our Capital Transit Partners. And again, I would have been part of some, not all, more peripheral as the leader of the project.

And then ultimately that regime and those mechanisms would have been taken up through the Executive Steering Committee and approved by the Executive Steering Committee.

KATE McGRANN: To the extent that you
 can recall, can you help me understand what the

1 purpose of the monthly deductions, or the 2 deductions to the monthly payments, I should say, 3 was in the overall scheme of the agreement? 4 JOHN JENSEN: Sorry, could you repeat 5 the question? 6 KATE McGRANN: Yes, let me try to 7 repeat it a little more clearly. What did you 8 understand the purpose was of potential deductions 9 to the monthly payments in the overall maintenance 10 phase? 11 JOHN JENSEN: Well, any financial 12 components to the maintenance phase would have been 13 aimed at encouraging compliance on the part of 14 ProjectCo to do the job that they were supposed to 15 do, and there would have been mechanisms there as 16 well if it went too far that the City would be able 17 to withhold money in order to step in itself if it 18 needed to. 19 So there was considerable discussion 20 around those types of mechanisms. And the only 21 challenge I'm having right now is that because it 22 is awhile ago, I don't remember all the specifics, 23 and so I wouldn't want to say something incorrect. 24 KATE McGRANN: Yeah, if you don't

<sup>25</sup> remember, just let me know and we'll keep

1 progressing. 2 Do you recall if there was any 3 discussion of any sort of cap or ceiling to be put 4 on the deductions that could be applied in any 5 given month? 6 JOHN JENSEN: I don't recall 7 specifically. I would think there would be because 8 ultimately you can't have a never-ending spot. But 9 I don't recall specifically what it might be. 10 KATE McGRANN: We are getting close to 11 the time for the afternoon break, so rather than 12 starting on another area and then pausing, if it works for everybody, why don't we just take our 13 14 break now. It is 3:25. We can come back at 3:35. 15 JOHN JENSEN: Okay. 16 -- RECESSED AT 3:25 P.M. 17 -- RESUMED AT 3:35 P.M. 18 KATE McGRANN: Looking at another 19 element of risk transfer on Stage 1 of Ottawa's 20 LRT, I have some questions for you about the 21 geo-technical risk transfer that was achieved 22 through the Project Agreement. Do you know what I 23 am talking about? 24 JOHN JENSEN: Yes. 25 KATE McGRANN: Okay. With respect to

1 the City's approach in this case to the 2 qeo-technical risk transfer, were there any 3 precedent projects that you are aware of that the 4 City looked to as an example of what it was doing? 5 JOHN JENSEN: I can't remember right б now which projects we looked at specifically, but 7 Capital Transit Partners had tunnelling experts on 8 their team who reviewed numerous projects and had 9 experience elsewhere. 10 And so we relied on them for their 11 geo-technical experience in terms of that area. 12 KATE McGRANN: And do you recall who 13 else was involved in advising the City on the 14 approach to take to the geo-technical risk transfer 15 in the procurement? 16 JOHN JENSEN: Well, the risk transfer 17 would have been a general discussion amongst the 18 team in terms of the best profile. So 19 Infrastructure Ontario would have been involved. 20 Our financial advisors would have been involved in 21 terms -- and our legal advisors in terms of 22 defining what levels of risk transfer were biddable 23 and bankable. We didn't want to create a profile 24 that wouldn't work, for example, for the lenders. 25 So our objective was always to try and

optimize the City's risk profile, but in the
 context of making sure that the project remained
 biddable and bankable.

KATE McGRANN: And do you recall any
changes that were made during the in-market period
in response to feedback from the bidders or
otherwise to the approach taken to the
geo-technical risk transfer?

<sup>9</sup> JOHN JENSEN: Well, there were numerous <sup>10</sup> commercially confidential meetings held with all of <sup>11</sup> the bidders throughout the entire process, and <sup>12</sup> there were also design review meetings held during <sup>13</sup> the RFP process so that the bidders could submit <sup>14</sup> their designs and get compliance feedback from the <sup>15</sup> team.

So there were numerous discussions on
 all topics, but certainly geo-technical would have
 been part of it.

<sup>19</sup> I can't recall specifically any of <sup>20</sup> those discussions of what would have been raised, <sup>21</sup> but those discussions would have taken place. <sup>22</sup> KATE McGRANN: And understanding that <sup>23</sup> you can't recall any specifics about the <sup>24</sup> discussions, do you recall if any changes were made <sup>25</sup> to the City's approach to the geo-technical risk as <sup>1</sup> a result of their comments or otherwise during the <sup>2</sup> in-market period?

3

4

5

6

7

8

JOHN JENSEN: I suppose the -- I think probably the best way to put this is that as part of the process, we defined some options or some different approaches that the bidders could take in their bids that would better match what they were able to take.

<sup>9</sup> I think, if I recall, there was a
 <sup>10</sup> ladder of three options available that ranged from
 <sup>11</sup> the City taking on the most risk, to the bidder
 <sup>12</sup> taking on the most or all of the risk. And as I
 <sup>13</sup> recall in RTG's bid, they ended up selecting the
 <sup>14</sup> option where they took all of the risk.

<sup>15</sup> KATE McGRANN: Do you remember if <sup>16</sup> everybody - and by "everybody" I mean all three <sup>17</sup> bidders - took the same option?

JOHN JENSEN: I can't recall. I can't recall what the other two teams did now. The only one I can remember right now is RTG's. But I knew we had two bidders come in compliant -- well, they all came in compliant, but...

KATE McGRANN: Do you recall when in
 the procurement period the ladder was implemented?
 JOHN JENSEN: Oh, it would have been

1 early in the process so that there was plenty of 2 time for the bidders to consider it. 3 KATE McGRANN: Do you recall if it was 4 in --5 JOHN JENSEN: I don't recall exactly when it was implemented. I think it was -- it may 6 7 even have been implemented already when the RFP 8 went out. I can't remember now. I think it was 9 already there when the RFP went out. 10 KATE McGRANN: Do you recall if anyone 11 advised the City against taking the ladder 12 approach? 13 JOHN JENSEN: I am not aware, in the 14 end, of any dissension. Most of these decisions 15 were taken as consensus approaches, and I don't 16 recall -- in the end, I don't recall any 17 dissensions. 18 KATE McGRANN: You mentioned earlier 19 that the approach taken to risk allocation was that 20 the risk should be allocated to the party that is 21 best positioned to bear that risk. 22 Why, in your view, was RTG the party 23 best positioned to bear the geo-technical risk? 24 Well, RTG has the JOHN JENSEN: 25 expertise. They would have assigned -- they would

<sup>1</sup> have compiled the technical knowledge about the <sup>2</sup> geo-technical conditions in the City. They best <sup>3</sup> know their means and methods and they are best able <sup>4</sup> to respond if they hit an unknown condition. They <sup>5</sup> are the best able to respond to that.

The City really has no experience in tunnelling, so taking on any sort of risk in the tunnelling would be beyond what the City normally would be involved in.

6

7

8

9

<sup>10</sup> So by allowing RTG to handle all of the <sup>11</sup> design, all of the integration, all the means and <sup>12</sup> methods and all of their experience, it makes the <sup>13</sup> most sense for them to take on that risk.

KATE McGRANN: Leaving aside the cost consequences if the geo-technical risk materialized for a second, were there any discussion about broader consequences for the project should the geo-technical risk materialize and how those would best be managed in the interests of the project?

JOHN JENSEN: I am not sure what you are getting at there, just so I can answer it more clearly.

<sup>23</sup> KATE McGRANN: Sure. I am thinking
 <sup>24</sup> about if, as we know happened on this project, a
 <sup>25</sup> sinkhole were to materialize, leaving aside the

<sup>1</sup> costs and who would pay for remediating the <sup>2</sup> sinkhole, was there any consideration about what <sup>3</sup> kind of an impact an event like that would have on <sup>4</sup> the project from a scheduling perspective, from a <sup>5</sup> delivery perspective, and how that could best be <sup>6</sup> dealt with in the Project Agreement or otherwise?

JOHN JENSEN: Yeah, absolutely, those discussions took place in detail as we were looking at the risk transfer model.

7

8

9

And certainly, you know, a big
 component, you mentioned the sinkhole, that concept
 is something that was very carefully considered and
 the impact of that.

14 And, you know, where we landed is the 15 entity that is best able to manage a risk like that 16 sinkhole is ProjectCo because they have full 17 control of means and methods. They have full 18 control of all of their subs. And they also have 19 the capacity to dig into their wallet and reach out 20 regionally to get -- my understanding with the 21 sinkhole with RTG is they had trucks and cement 22 trucks coming in from all over the province within 23 days, if I recall what I heard.

And that is exactly what we wanted to happen in the risk profile is that ProjectCo would be able to respond quickly to those issues.

1

They would also be able to respond to scheduling issues. If they fell behind, having full control of all of their means and methods, they would be able to perhaps advance another component of the project earlier than later so that they could compensate for the schedule delay that might occur with something like a sinkhole.

<sup>9</sup> The other is because they are on the <sup>10</sup> hook for schedule, they are on the hook for delay, <sup>11</sup> they are on the hook for late financing costs, they <sup>12</sup> have an incentive to move quickly to respond to <sup>13</sup> those types of things.

14 So all of those would have been 15 considered in terms of the risk transfer profile, 16 and the desire to get as much of the tunnel risk 17 transferred to the project as we could, while still 18 keeping the project biddable and bankable, and that 19 is one of the reasons for the ladder approach is so 20 that we didn't have a no-bid situation because we 21 created a risk profile that ProjectCo couldn't cope 22 with or their lenders couldn't cope with.

So we kind of put the ball in their
 court to decide where they wanted to go with it.
 KATE McGRANN: And in looking at from

<sup>1</sup> the scheduling perspective, for example,
<sup>2</sup> ProjectCo's ability to focus on other geographic
<sup>3</sup> elements of the project and advance those, any
<sup>4</sup> discussion about how that would interplay with the
<sup>5</sup> milestones selected in terms of incentives and
<sup>6</sup> ability to complete the project?

JOHN JENSEN: If I recall correctly, the milestones were all based on what has been completed and timed in the process, so it would have mapped accordingly in terms of what they had completed.

7

8

9

10

11

25

<sup>12</sup> The Independent Certifier would have <sup>13</sup> been signing off on those pieces before milestone <sup>14</sup> payments, so it would have -- I can't recall <sup>15</sup> specifically, but it would have been calibrated to <sup>16</sup> compensate for those types of things.

KATE McGRANN: And do you recall any
 discussions specifically about that?

JOHN JENSEN: I can recall there were discussions. I can't recall the specific discussions. But we spent a considerable amount of time with our financial and legal advisors and in calibrating what that would look like as the process went forward.

KATE McGRANN: And do you remember any

<sup>1</sup> concerns being expressed or running into any
 <sup>2</sup> challenges in either quantifying or putting a value
 <sup>3</sup> on that risk, for starters?

4

5

б

7

8

9

10

JOHN JENSEN: I don't recall any issues in terms of being able to value risk or calibrate risk. Our technical teams that were in place and our financial teams that were in place were very capable of understanding that risk and being able to calibrate what was and wasn't an acceptable risk and what the quantities might look like.

KATE McGRANN: And do you remember whether there were any concerns or questions expressed by anybody working on or on behalf of the City about whether the City had the authority to implement any aspect of the geo-technical risk ladder that you have described?

17JOHN JENSEN: You mean about the City18taking on that risk?

KATE McGRANN: About the City
 implementing the -- like putting the ladder into
 the RFP, into the procurement process.

JOHN JENSEN: There was no -- I don't recall any contention or any issues about putting that ladder in. Once we defined that that was an option that we wanted to use, then we ran that up through the Executive Steering Committee.

1

2

3

4

5

6

7

8

9

10

11

12

25

I don't recall any issues with it. KATE McGRANN: Do you recall anyone from IO raising any questions about whether the geo-technical transfer approach could be implemented?

JOHN JENSEN: Well, I am sure that -- I recall there were discussions around what that profile might look like and what the ladder might look like. And in the end, to the best of my recollection, we reached consensus so that it could move forward.

KATE McGRANN: If you don't remember, just let me know, but do you have any specific recollection of IO raising any questions or concerns about whether that could be done?

JOHN JENSEN: All I can say is I can recall that we had extensive discussion about the risk ladder and how that may or may not work.

I don't recall anything out of the ordinary standing out. And I recall us reaching a consensus at the end, to the best of my memory. And then we ran it up through the Executive Steering Committee.

But again, as with every element of the

1 project, there was a lot of discussion around every 2 component before we finally landed on a decision 3 because we wanted to make sure that we turned over 4 every stone before we made that decision and we 5 didn't make any decisions prematurely. We wanted б to exercise them. And every member of the team was 7 strongly encouraged to speak up and make their view 8 known and have discussion take place, and then in 9 the end we tried to make most decisions by 10 consensus.

KATE McGRANN: Do you recall any particular decisions that weren't able to be made by consensus?

JOHN JENSEN: I can't recall the specifics, but I think there was at least one occasion where the City exercised its final decision-making authority and that was exercised in the agreement, the MOU with IO.

I can't remember specifically what it was, but I can recall at least on one occasion speaking with the City Manager and asking him to support the City's position as opposed to what IO was saying.

And I think it is simply a matter of the fact that in some cases the City had a

1 different view on how that should proceed. 2 KATE McGRANN: And do you remember 3 anything about the subject of that particular --4 JOHN JENSEN: No, I have been trying to 5 think about it and I just -- I cannot for the life б of me recall what it was specifically. 7 KATE McGRANN: Turning to look at the 8 proposal for the manufacturer of the vehicles that 9 RTG put forward and that was ultimately agreed to, 10 do you recall that the proposal involved at least some of the vehicles being manufactured in the 11 12 maintenance and storage facility? 13 JOHN JENSEN: Yes, I do. 14 KATE McGRANN: And was there any 15 concern or any questions raised on the City's side 16 about those vehicles being built in a brand new 17 facility in --18 JOHN JENSEN: No, actually, that is a 19 fairly common thing in the industry for a new 20 project build for the vehicles, or at least some of 21 the vehicles to be assembled in the maintenance 22 facility. 23 It has some real benefits for the 24 project because what you end up with is a fully 25 functioning facility that has been stress-tested,

1 and in most cases you end up with a team that stays 2 on then to be your maintenance team and who are all 3 trained and ready to go and know the vehicles. 4 So there is plenty of benefits to doing 5 it that way. At some point in a system like Ottawa's, an external facility will have to be --6 7 to come up with, because once the maintenance 8 facility goes into operation, then it is no longer 9 suitable to be building there. You have to be 10 maintaining and operating out of it. 11 But it is actually in many cases a very 12 good way to start the system. 13 KATE McGRANN: Any discussions or 14 concerns about the introduction of additional risk 15 for the vehicles, given that they are being built 16 in a brand new facility with a workforce that 17 hasn't built them before? JOHN JENSEN: No, we didn't see that 18 19 and we didn't see that as a risk, and I wouldn't 20 assume that it was a workforce that hasn't built 21 them before because I would assume that Alstom is 22 bringing in its team and the people that are 23 building the vehicles know how to build the 24 vehicles and have experience. 25 KATE McGRANN: And was that -- what was

1 the basis for that belief?

8

9

10

JOHN JENSEN: Well, Alstom, as part of RTG's bid, they had to qualify their teams in terms of meeting the requirements, so they would have had to qualify their maintenance team and they would have had to go through the compliance review as part of the bid process.

So if they had put forward an unqualified team, they would have been non-compliant in that area.

KATE McGRANN: Okay. And was it the case that the question of whether building the vehicles in the maintenance and storage facility introduced risk into the project was considered and rejected? Is it something that was actively spoken about?

17 JOHN JENSEN: Certainly it was 18 discussed and it was not considered to be a risk. 19 KATE McGRANN: And then what about the 20 supply chain that would be engaged through the 21 manufacture of these vehicles in a new facility in 22 Ottawa, any consideration whether that would 23 introduce any risk into the vehicles that should be 24 accounted for somehow? 25 JOHN JENSEN: Well, let's go back to

<sup>1</sup> the fundamental of the design/build/maintain model <sup>2</sup> approach. RTG was fully accountable for the <sup>3</sup> design, the build, the maintenance, the supply <sup>4</sup> chain, the integration. Those were all RTG's <sup>5</sup> responsibility, not the City's responsibility. So <sup>6</sup> that risk was transferred to RTG.

7

8

9

10

11

12

13

KATE McGRANN: Any discussion on the City side from the perspective of wanting a service-proven vehicle, for example, or anything like that about whether the implications of engaging potentially new lines in the supply chain would introduce additional risk in the project and whether that should be accommodated in any way?

JOHN JENSEN: Well, again, that is part of the design/build/maintain model. That risk was transferred to RTG and the responsibility for managing that was in their court and they were responsible for ultimate compliance, long-term maintenance, life cycle out to 30 years.

So everything was built in to manage
 that risk in terms of transferring it to RTG.
 KATE McGRANN: With respect to the plan
 for the start of service for the public, when the
 system launched, was there a plan that was put
 together for that while you were working on the

project?

1

2

3

4

5

6

7

JOHN JENSEN: Well, the service, the whole start-up plan, commissioning, testing, was all part of the Project Agreement and the output specifications and that was all prepared by our Capital Transit Partners who had expertise in that area.

<sup>8</sup> KATE McGRANN: And my understanding is <sup>9</sup> that the start-up plan was that the system would <sup>10</sup> start full service from day one and there would be <sup>11</sup> a complete transfer from the BRT, the bus rapid <sup>12</sup> transit system, to the LRT on day one of the <sup>13</sup> systems opening; is that right?

JOHN JENSEN: To the best of my
 recollection, that's correct.

KATE McGRANN: Was there any discussion or consideration of a soft start to the system, and by that I mean starting with less than full service, complete conversion and ramping up to full service and no more BRT service?

JOHN JENSEN: The soft start was -- I am trying to remember now. It was discussed, but you'll recall we were completely replacing the transitway with trains, so the intention was always that the system would start up and there would be a

1 turnover. 2 KATE McGRANN: And was there a -- did 3 any of the bidders raise the prospect of a soft 4 start as something that they wanted in the 5 agreement? 6 JOHN JENSEN: I don't recall that 7 occurring. 8 KATE McGRANN: Any discussions with 9 Capital Transit Partners or any advice on 10 considering a soft start from them? 11 JOHN JENSEN: There was nothing I 12 raised that I am aware of. 13 KATE McGRANN: And leaving aside the 14 concept of a soft start for the moment, do you 15 recall any discussions with the bidders or 16 internally the City and its advisors about the need 17 for or the inclusion of a vetting-in period for the 18 system where it would run without passengers for a 19 certain period of time in order to identify any 20 latent issues, de-bug, get everybody familiar with 21 it, things like that? 22 That was part of the JOHN JENSEN: 23 commissioning and testing program that was put 24 forward for the project, so that project had to 25 reach a standard before it could be certified to

<sup>1</sup> open, so it would have been ready to go, all <sup>2</sup> de-bugged and everything was done, and that was the <sup>3</sup> commissioning and testing program that was put <sup>4</sup> forward.

KATE McGRANN: And do you recall anything, any specifics of the commissioning and testing program that would achieve that vetting-in, de-bugging?

5

б

7

8

25

9 Well, that would have JOHN JENSEN: 10 been set up by Capital Transit Partners, a certain 11 standard having to be met by the system before it 12 can open, and if that is the vetting-in process 13 that you are referring to, the system would have 14 been in full trial running and at some point it 15 would have been running without passengers. At 16 some point, they would have brought in some 17 passengers before the system opened. But it would have had to reach a standard of reliability and be 18 19 certified to that and certified safe before 20 contract award, and that is what was set out in the 21 Project Agreement.

KATE McGRANN: What was your
understanding about the certified as safe component
and what that would involve?

JOHN JENSEN: I can't recall all the

details of it, but it involved -- it would have ultimately involved the Independent Certifier signing off on it. But the system would have had to reach certain levels of safety standards, error-free operation. There is a lot of components that go along with that. I can't remember them all specifically.

KATE McGRANN: Are you familiar with a concept that I have heard referred to as trial running, a sort of -- well, let me just start with that.

8

9

10

11

JOHN JENSEN: Well, again, to me what you are describing is the certification process that goes in play to ultimately sign the system off and say it is ready to go, which includes numerous stages of testing and running the vehicles empty, running them through the whole system.

And at some point the entire system has has to operate for a number of days or weeks to a certain error-free standard before it can be certified.

So that would have all been built into
 the Project Agreement.

KATE McGRANN: Were you involved in the
 discussions that led to the determination of what

the trial running requirements in the Project Agreement would be?

JOHN JENSEN: As the Project Lead, I would have been involved in some discussions, but we would have relied on Capital Transit Partners to prepare the proper specifications for the trial running period.

KATE McGRANN: And do you remember what they used as the basis for those specifications?

10JOHN JENSEN: No, I don't remember11that.

8

9

KATE McGRANN: Do you remember any back and forth over what the appropriate specifications would be?

JOHN JENSEN: The discussions would have taken place mostly within the engineering team in terms of the design because these are safety standards and reliability standards that are set by the certified engineers, and they have to meet certain requirements that if they are not met, then the system isn't safe or reliable enough to open.

<sup>22</sup> So we would have relied on the <sup>23</sup> engineering teams to set those standards and make <sup>24</sup> sure there were mechanisms in play to sign off on <sup>25</sup> those standards going forward before the system <sup>1</sup> could open.

6

7

8

KATE McGRANN: Do you remember any particular areas of dispute or challenges or sticky points in the determination of the trial running requirements?

JOHN JENSEN: I don't remember complexities in that area. I remember it going fairly smoothly.

<sup>9</sup> Trial running and opening and
<sup>10</sup> commissioning of systems is not an uncommon thing.
<sup>11</sup> There are numerous light rail systems operating and
<sup>12</sup> other rail systems operating all over the world, so
<sup>13</sup> there is -- in my view, there is a considerable
<sup>14</sup> body of expertise in terms of the engineering side
<sup>15</sup> in defining what trial running looks like.

KATE McGRANN: And do you recall any other -- being aware of any other systems that had accomplished the complete switch-over from one transit system to another in a single day, like Ottawa was planning to do?

JOHN JENSEN: I don't recall, but I am sure it has happened numerous times. I can't say that for a fact, but my belief is that it has happened numerous times. This was not considered to be unusual.

1 KATE McGRANN: Turning back to the trial running, I have one more question, a 2 3 dangerous thing to say, but one more question on 4 this topic. Do you recall anybody giving any 5 advice that the requirements should be more or less б specific or detailed than they were? 7 JOHN JENSEN: Which requirements? 8 KATE McGRANN: The trial running 9 requirements. 10 JOHN JENSEN: I don't recall that, no. 11 KATE McGRANN: You have mentioned the 12 Independent Certifier a couple of times. What was 13 your understanding of the role of the Independent 14 Certifier in the project? 15 JOHN JENSEN: Let me think. Well. I 16 know the Independent Certifier signed off for 17 completion for milestone payments. I can't -- I 18 would have to look at the language again. I can't 19 remember all the details on the specifics for the 20 Independent Certifier. 21 KATE McGRANN: Okay, and if you can't 22 answer this question because you can't remember or 23 otherwise, just let me know, but did you believe 24 that the Independent Certifier was doing anything 25 other than certifying that the conditions as agreed

1 to by the parties in the Project Agreement or 2 otherwise had been met? 3 JOHN JENSEN: I don't know. I am not 4 aware of anything else, but again, I would have to 5 go and look at the language to make sure. 6 KATE McGRANN: With respect to the 7 negotiation of the Project Agreement, who was 8 involved in those negotiations on behalf of the 9 City? 10 JOHN JENSEN: Between whom? Between 11 RTG and the City? 12 KATE McGRANN: Yes, thank you, sorry 13 for leaving that out. 14 JOHN JENSEN: And you are talking about 15 after award, the negotiation of the final 16 agreement? 17 KATE McGRANN: Yes. 18 JOHN JENSEN: Because there was a long 19 process that went all the way through right from 20 the RFP stage where we issued a draft Project 21 Agreement in the RFP stage and had numerous legal, 22 commercially confidential meetings with the 23 bidders, the three of them, and their financial 24 teams and their legal teams. 25 Once the contract was awarded, then we

<sup>1</sup> sat down and negotiated any final details that <sup>2</sup> needed to be negotiated with ProjectCo, and that <sup>3</sup> team would have involved me, Infrastructure <sup>4</sup> Ontario, our legal team, our financial team and our <sup>5</sup> engineering team. So there would have been a host <sup>6</sup> of people in the room. <sup>7</sup> And anything that we -- anything that

<sup>8</sup> we agreed to in that would have gone up through the <sup>9</sup> Executive Steering Committee to make sure that <sup>10</sup> everything was vetted.

11 KATE McGRANN: Who from IO was involved 12 in those final negotiations?

JOHN JENSEN: Well, at the very least
 Rob Pattison would have been involved. I am trying
 to think of their financial people, maybe John
 Traianopoulos. There were a number of different
 representatives from IO that participated.

KATE McGRANN: And --

18

JOHN JENSEN: I am just trying -- I am giving names, but more importantly we had senior staff from IO; we had financial staff from IO, so that we had good representation there on the team.

And then we would have had City
 finance. We would have had BLG there. We would
 have had, if necessary, someone like Deloitte would

<sup>1</sup> have been there.

25

<sup>2</sup> So we had a good representation across <sup>3</sup> the team for the discussion.

KATE McGRANN: Did anybody from Boxfish
have any involvement in Project Agreement
negotiations either before the Preferred Proponent
was identified or afterwards?

<sup>8</sup> JOHN JENSEN: Brian Guest was involved
 <sup>9</sup> in a number of those discussions, yes.

KATE McGRANN: And what expertise did
 he bring that the City was not getting from
 Deloitte, BLG, Infrastructure Ontario, Capital
 Transit Partners?

JOHN JENSEN: One of the biggest -- I 15 think one of the biggest benefits that he brought 16 to the table was his ability to run a challenge 17 process, so we relied on him for a challenge 18 function.

The other skill he brought to the table was his ability to be innovative and think outside of the box, and to that extent he was able to help us come up with ideas or concepts that we might not otherwise have thought of because of his innovative thinking.

KATE McGRANN: Could you give me some

1 examples of the products of his innovative 2 thinking?

3 JOHN JENSEN: Well, some of the 4 elements of the Project Agreement that resulted in 5 I think good cost benefits for the City such as б energy matters where we came up with a plan for 7 encouraging ProjectCo to optimize their energy use, 8 operations matters for optimizing operations, 9 elements like that that he brought forward that 10 were really good cost-effective options going 11 forward that we might not otherwise have come up 12 with.

KATE McGRANN: And if you can,
 generally speaking, how much of the Project
 Agreement was left to be negotiated after the
 selection of the Preferred Proponent?

17JOHN JENSEN: Very little. Very --18KATE McGRANN: Okay.

JOHN JENSEN: It was only tweaks at the
 end.
 KATE McGRANN: Any particular

challenges in the negotiation of the Project
 Agreement with RTG either before the selection of
 RTG as Preferred Proponent or afterwards?
 JOHN JENSEN: Not that I am aware of.

1 As far as I could tell, the process went smoothly. 2 KATE McGRANN: Any particular sticking 3 points or topics that took more effort or more time 4 than others? 5 JOHN JENSEN: Not that I recall. T am 6 just trying to think back. There is nothing that 7 stands out in my mind that says that it was 8 particularly sticky. I am sure we had some discussions around points and a little push and 9 10 pull, but I can't recall anything that was a big 11 red flaq. 12 KATE McGRANN: And do you recall 13 whether there were any discussions or concerns 14 raised within the City about how the interface or 15 interfaces engaged in the system would be managed 16 So for example, the interface between by RTG? 17 Alstom and Thales. 18 JOHN JENSEN: I am not sure what you 19 mean by "discussions". The model was built such 20 that the RFP and the PSOS and all of those 21 documents would obligate RTG to do the full design, 22 construction, integration, and everything that 23 happens inside of it is their responsibility, 24 almost, you know, in some ways like a bit of a 25 black box. We qualify the team. They meet all of

<sup>1</sup> the compliances that we require them to meet in <sup>2</sup> terms of a quality team and all of the other <sup>3</sup> pieces, and then it is their responsibility to move <sup>4</sup> forward. And the consequences of them not moving <sup>5</sup> forward properly are carefully mapped out in the <sup>6</sup> RFP -- or in the Project Agreement.

So to the extent of the City being concerned about what was going on inside of RTG, that is basically their business to take care of. And as long as they are producing what they have contracted to produce, then the City is getting the value that it is paying for.

7

8

9

10

11

12

13 KATE McGRANN: Any discussions about 14 RTG's -- I'll walk you through this. I could have short-cut this, but any discussions about the fact 15 16 that RTM would be subcontracting a large component 17 of the maintenance work down to Alstom and what 18 that could potentially mean given the contractual 19 relationship between Alstom, RTM, RTG and then the 20 City?

JOHN JENSEN: Well, all of the contractual obligations in terms of the design, construction and moving to maintenance are within RTG. It is their contractual responsibility to manage that. And as I said, they were compliant <sup>1</sup> through the whole bid process, so we had vetted <sup>2</sup> them in terms of them producing a qualified team to <sup>3</sup> move forward, and how they structured it moving <sup>4</sup> forward was left to them, which is what the model <sup>5</sup> is for.

And then the consequences of them either doing what they committed to do contractually or not are dealt with through the Project Agreement and managed that way. So it is their responsibility to put forward the team, the maintenance program, and they are on the hook for that for 30 years.

So that is where the obligation lies on
 their part, is complying with the Project
 Agreement.

KATE McGRANN: And were there any concerns discussed about -- I understand how it is intended to work, but any concerns or questions discussed at the City about whether there would be implications or risks introduced by the fact that RTM was going to subcontract a large portion of the maintenance obligations down to Alstom?

JOHN JENSEN: Well, to the extent that that was occurring, that would have been declared in the RFP submission when they submitted their

1	teams, and they would have had to submit compliant
2	teams in the context of the RFP.
3	So once that compliance review was
4	done, the City is basically saying we are satisfied
5	that your team complies, and they move forward with
6	that.
7	And I mean, if you look at the players
8	that came forward, these are all big, global,
9	experienced teams. There is no reason to stand
10	back and go one partner or another is not going to
11	be able to comply because they are big, experienced
12	teams.
13	KATE McGRANN: And do you remember any
14	discussions about any of that?
15	JOHN JENSEN: In terms of what?
16	KATE McGRANN: Do you remember any
17	discussions about the potential implications of a
18	good chunk of the maintenance responsibilities
19	being subcontracted down to Alstom from RTM?
20	JOHN JENSEN: Well, again, I go back to
21	the RFQ/RFP process. As part of that process, RTG
22	was required to qualify its prime team members.
23	That would have been one of the prime team members
24	that it had to qualify, which is its maintenance
25	contractor.

Γ

And that would have been reviewed as part of the RFP process against the compliance standards, and if they were deemed compliant, which they were, then there was no reason to question that moving forward because they had met the requirements.

7 KATE McGRANN: Okay, and I don't mean 8 to make you feel like I am asking you to repeat 9 yourself over and over again. I think that the 10 answer to this question is no, but do you remember 11 any discussions about it? I understand how it is 12 going to work and you have explained that well, but 13 do you remember talking about any implications of 14 that subcontract at all?

JOHN JENSEN: What, talking about them not complying?

KATE McGRANN: Talking about the fact
 that there may be an additional risk introduced by
 the fact that those responsibilities are being
 subcontracted away from RTM?

JOHN JENSEN: Well, the discussions were around setting the parameters for the RFP in terms of defining what is a qualified team member. Other than that, what we are looking for is qualified bidders coming to the table, and once <sup>1</sup> they qualify in the process, there is no question <sup>2</sup> about whether or not they were able to perform <sup>3</sup> later because they had met the qualification <sup>4</sup> requirements and then the obligation under the RFP <sup>5</sup> makes them have to be compliant with the RFP going <sup>6</sup> forward.

7 In terms of risks during the 8 maintenance period from the maintenance contractor, 9 the whole schedule of, what is it, 15-3 I think it 10 is in the Project Agreement, that has all the 11 maintenance terms and conditions, the penalty 12 programs, all of those compliance programs and 13 expectations and standards are meant to hold the 14 contractor's feet to the fire as they go forward to 15 make sure that they are compliant with the RFP.

<sup>16</sup> So to that extent, between having an <sup>17</sup> RFP process where we are qualifying teams to ensure <sup>18</sup> that they are submitting qualified team members and <sup>19</sup> having the mechanisms in place in the RFP moving <sup>20</sup> forward and all the terms and conditions, that is <sup>21</sup> the discussion and the mechanisms that would have <sup>22</sup> taken place going forward.

<sup>23</sup> KATE McGRANN: Turning to management
 <sup>24</sup> and oversight of the manufacturing of the vehicles
 <sup>25</sup> and the construction of the system, what

1 involvement did you have in planning or 2 establishing the City's oversight approach to that 3 part of the project? 4 JOHN JENSEN: Well, the engineering 5 team was -- Capital Transit Partners was б responsible for overseeing that part of the 7 project, along with the Chief Engineer, so they 8 would have taken over that role and had the 9 oversight through the entire design and 10 construction period. 11 KATE McGRANN: And into -- so Capital 12 Transit Partners was managing oversight of the 13 project on behalf of the City? 14 JOHN JENSEN: Well, they were part of 15 the Project Team who were responsible for ensuring 16 that ProjectCo was doing what it was supposed to be 17 doing, so reviewing the design submissions, and 18 that is a standard process for any project is that 19 the owner's engineer is the owner's representative, 20 just as BLG would be the legal representative, to 21 oversee the contract through design and 22 construction to make sure that design submissions 23 are reviewed, that ProjectCo is meeting the 24 standards that they should be meeting, giving

<sup>25</sup> compliance feedback.
1 Those are all roles of the owner's 2 engineer going forward.

3

5

6

7

KATE McGRANN: And did you have any 4 involvement in establishing the structure at the City, like in terms of who would be overseeing the project as it moved through the construction phase towards substantial completion?

8 JOHN JENSEN: Well, the construction 9 phase up to substantial completion would have been 10 Capital Transit Partners regardless, and at some 11 point a year or two into the project when we are 12 getting closer to the operations phase, then the 13 City would need to -- then probably OC Transpo, but 14 the City would need to engage some sort of a 15 manager/leader with the sufficient resources to 16 manage that contract going forward. And that would 17 have taken place a little after the construction 18 started because Capital Transit Partners would be 19 handling it all right up to commissioning and 20 construction.

21 There was several So there was time. 22 years of construction involved, and you wouldn't 23 bring the City team on until they were necessary to 24 come on when you are getting closer to operations 25 and oversight of the contract.

1 KATE McGRANN: Was there a formal 2 governance framework devised for the City's 3 oversight of the construction phase? 4 JOHN JENSEN: It hadn't been finalized 5 when T left. 6 KATE McGRANN: And what stage was it at 7 when you left? 8 Well, as far as JOHN JENSEN: 9 overseeing like all the rules, the regulations, the 10 operations, the training, that was all mapped out 11 in the RFP and in the PSOS in terms of RTG having 12 responsibility to work with the City and to 13 research and prepare regulations, operating 14 procedures, interface procedures, safety management 15 systems. All of those pieces were under 16 ProjectCo's obligation to develop with the City and 17 to have all prepared and ready for when the system 18 opened. 19 And then the other component that 20 needed to happen was at some point before opening, 21 the City needed to hire some sort of a leader 22 responsible for overseeing the contract and either 23 a team of people with experience under that leader

or contracted out to have some sort of a firm come
in and do audits and help them with contract

1 oversight going forward. That needed to happen 2 down the road a couple of years, once we got closer 3 into the final stages of the project. 4 KATE McGRANN: And --5 JOHN JENSEN: And it was just a matter 6 of the City hiring some qualified people. 7 KATE McGRANN: Were there any project 8 management plans that had been finalized for 9 oversight of the construction phase by the time 10 that you left? JOHN JENSEN: Well, again, I'll go back 11 12 to Capital Transit Partners with the Chief Engineer 13 were responsible for oversight of the project 14 through construction up to, you know, system 15 opening and hand-over. 16 That is a very, very defined process. 17 There is scheduling and tracking. Capital Transit 18 Partners had all that set up. That is what they 19 were hired to do. 20 KATE McGRANN: And do you recall 21 whether they had any written project management 22 plans overarching or with respect to specific 23 functions that they would be performing as part of 24 the oversight? 25 JOHN JENSEN: Yeah, yeah, their

1 schedulers, their estimators, their design 2 reviewers. They would have had a data management 3 They would have had a plan mapped out. system. 4 They would have had all the elements of the Project 5 Agreement defined so that they knew what needed to That is why we hired a very б be done when. 7 qualified engineering consulting team who were 8 experienced at doing these types of things to 9 oversee the design and construction of the project. 10 KATE McGRANN: And if you can't, you 11 will tell me, but do you remember what specific 12 plans they had finalized at the time that you left? 13 Well, they would have --JOHN JENSEN: 14 I don't know, but my assumption is that they would 15 have had everything sitting and idle and ready to 16 go the minute the gates were opened. 17 This is a very common engineering 18 process in projects. This is done in every 19 project. So Capital Transit Partners would have 20 had everything they needed to have ready to get 21 going out of the gate on day one. 22 KATE McGRANN: Do you know what a 23 "concept of operations" is? Are you familiar with 24 that term? 25 I know the term. JOHN JENSEN: I am

1 not sure where you are going with it. 2 KATE McGRANN: Just do you know if a 3 concept of operations had been prepared for this 4 project by the time that you left? 5 In other words, how the JOHN JENSEN: 6 system would operate? 7 KATE McGRANN: Yes. 8 JOHN JENSEN: Yes, yeah. 9 KATE McGRANN: And who prepared that 10 document? 11 JOHN JENSEN: Well, the concept of 12 operations is in the RFP and in the PSOS. There is 13 a definition in there of how the system is to 14 There is descriptions in there of the operate. 15 interface between maintenance and the OC Transpo 16 drivers. There is descriptions in there of 17 frequency of service, hours of service, levels of 18 service, reliability of service, ridership, how the 19 stations are supposed to work. All of that was 20 very clearly mapped out. 21 KATE McGRANN: So as far as concept of 22 operations went, it is the PSOS and the RFP that is 23 the source of that information? 24 That is correct. JOHN JENSEN: 25 KATE McGRANN: And are you familiar

1 with what a configuration summary is? 2 JOHN JENSEN: I am not sure what you 3 mean by that. 4 KATE McGRANN: Just while I am looking 5 at my notes, I will ask my co-Counsel, Ms. Peddle, if she has any follow-up questions on anything that 6 7 we have discussed so far. 8 CARLY PEDDLE: I have no questions at 9 this time. 10 KATE McGRANN: Jumping back in time in 11 the project, you had mentioned that some value 12 engineering was done during the work that you were 13 involved in. Can you speak to, first, what led to 14 the value engineering being undertaken? 15 Well, first of all, value JOHN JENSEN: 16 engineering is a standard process that any good 17 project would undertake because it allows you to go 18 through the entire design and schedule and look for 19 best value in terms of can we save some money; do 20 we have balanced quality with cost; look at 21 optimizing schedule. That is a value engineering 22 process. 23 And so it is a normal process, and we 24 have the team go through that value engineering 25 exercise in detail to look at every component of

the project and make sure that the design was optimized, that the schedule was optimized, that the cost was optimized. And in the event that we could make any changes or alterations in terms of the best cost benefit for the City and the funding partners and the citizens of Ottawa, we engaged in that.

8 KATE McGRANN: It was my understanding 9 that as a result of some of the design and 10 engineering work that was done, a cost estimate 11 that was put forward that was above and beyond the 12 City's budget for this project which led to 13 additional design engineering or value engineering 14 being done to bring the projected costs back within 15 the budget; is that consistent with what you 16 recall?

17 JOHN JENSEN: Well, it is consistent 18 with really any project. As the design advances 19 from functional design into preliminary engineering 20 and preliminary design, the budget is refined. The 21 functional design budget that was given to us when 22 the project was handed to us to take into 23 procurement, very high level, very low level of 24 cost confidence, a lot of contingency built into 25 it.

<sup>1</sup> So as the design gets advanced and <sup>2</sup> refined, so can we advance and define the budget. <sup>3</sup> And our objective was always to optimize quality <sup>4</sup> and design with budget, and that was part of the <sup>5</sup> process as we went through the preliminary <sup>6</sup> engineering phase.

7 KATE McGRANN: And just to make sure 8 that we are talking about the same thing, my 9 understanding is that some value engineering was 10 done to bring the anticipated cost of the project 11 back within a budget of \$2.1 billion. Are we 12 talking about the same thing?

JOHN JENSEN: Yeah, I think so. Value engineering was done to bring the budget down as far as we could responsibly bring it down, and 2.1 was the number that we brought it to.

KATE McGRANN: And what was done in
 order to bring the anticipated costs of the project
 down to 2.1?

JOHN JENSEN: Well, we were able to do some refined scheduling. Other than the high level scheduling that was done in the functioning of the design, once the design was enhanced or preliminary engineering was advanced, our schedulers on the CTP team were able to refine the schedules and bring that schedule in.

1

2

3

4

5

6

7

8

9

10

11

We were able to do some work in terms of streamlining the procurement process to make it more efficient and time-effective.

And we were able to look at elements of the project in terms of design to optimize the project and improve the risk transfer model. And I mean, one of the examples of that is shifting the tunnel alignment to Queen Street which shallowed the tunnel, and the benefit of doing that was several.

12 One is it improved the geo-technical 13 risk profile which allowed the tunnel risk transfer 14 to happen the way that it did, because with the 15 shallow tunnel and going down Queen Street, in 16 between all the buildings, there was much better 17 knowledge about the geo-technical conditions which 18 brought a lot more confidence from the bidders. 19 Shallower stations mean shorter escalators, all of 20 those costs.

<sup>21</sup> So those are some examples of the way <sup>22</sup> we were able to take it to manage the budget in an <sup>23</sup> effective way.

KATE McGRANN: Could you speak a little
 bit more about how the schedule was refined and how

1 that led to increased value for the project? 2 JOHN JENSEN: As far as the specifics 3 inside the schedule, I would have to rely on CTP's 4 scheduling experts to answer a question like that. 5 I didn't get into the detail of it. I relied on 6 the scheduling professionals to be able to look at 7 the project design and come up with reasonable 8 schedules. 9 KATE McGRANN: And could you just speak 10 generally to how schedule refinements could lead to 11 savings on the project? 12 JOHN JENSEN: Well, a schedule 13 refinement leads to savings because of time. From 14 RTG's perspective, when they are bidding, if they 15 can save six months on a schedule, then it is six 16 months of less financing costs, and you can 17 appreciate the cost savings there. 18 You know, the longer something takes to 19 build, the more it costs because there is more 20 labour involved and more time and resources. 21 KATE McGRANN: So was the refined 22 schedule built into the RFP in a sort of this is 23 how long this project should take based on our view 24 and you meet that requirement? 25 JOHN JENSEN: In a sense. I mean, the

1 RFP defined when we wanted the project to open, and 2 that is what they were bidding to. 3 And once they took over the project, 4 then it was up to them to figure out their means and methods of scheduling to meet that date. 5 So б the target date was set for them in the RFP. 7 KATE McGRANN: Okay, so the scheduling 8 work that is done by CTP is to determine what is 9 feasible and then RTG determines the path they take 10 to get there basically? 11 JOHN JENSEN: That's correct, yes. 12 KATE McGRANN: And then with respect to 13 streamlining the procurement process, could you 14 describe that value engineering work and what that 15 involved? 16 JOHN JENSEN: Well, streamlining the 17 procurement process simply meant optimizing the 18 amount of time that we were taking in terms of bid 19 evaluations and just process. So it is not so much 20 engineering in that sense. It is refining the 21 procurement process itself to make it as efficient 22 as possible, overlapping where we can overlap 23 instead of doing things consecutively, you know, 24 things like that, how many design presentation 25 meetings we do, optimizing that whole process to

1	make sure that it is effective, there is enough
2	time for the bidders but we are not wasting time
3	going through it.
4	So by tightening that up, it gains us a
5	bit of time.
6	KATE McGRANN: And do you recall
7	generally how much you were able to tighten the
8	procurement process up? Like what it was
9	originally projected to take and what it ultimately
10	took?
11	JOHN JENSEN: I am trying to remember
12	right now, but I think by tightening up the whole
13	procurement and our processes I am just trying
14	to think. The number six months comes into mind,
15	but don't hold me to that.
16	KATE McGRANN: Okay, and I won't hold
17	you to it, but let's say approximately six months.
18	Was that how much you were able to shave off of the
19	planned length for the procurement process?
20	JOHN JENSEN: That is how much we were
21	optimizing the yeah, we were able to optimize
22	the plan. Don't hold me to the six months, but I
23	think it was something like that that we were able
24	to do in terms of the procurement, and we were able
25	to shave a little bit more time off in terms of our
1	

1 value engineering and the scheduling. 2 KATE McGRANN: And who was --3 JOHN JENSEN: But I think in the end we 4 brought it back almost a year, but I can't remember 5 now for sure. 6 KATE McGRANN: Who was involved in the 7 work to streamline the procurement process? 8 Well, that would have JOHN JENSEN: 9 been Infrastructure Ontario. That would have been 10 our City procurement folks that were helping. 11 Did anybody at any point KATE McGRANN: 12 in time raise any questions or concerns about the 13 fairness of the procurement process that the City 14 ran on this project? 15 JOHN JENSEN: Not that I am aware of. 16 We had a Fairness Commissioner involved in every 17 element of the project and wrote a final Fairness 18 Report, with the declaration -- we went to a 19 Fairness Commissioner instead of a Fairness 20 Monitor, which I think IO typically uses because 21 the Fairness Commissioner has more clout. 22 So we wanted to make sure that every 23 aspect of fairness was very carefully considered. 24 We wanted to make sure we had a very good open, 25 transparent process, and that everything was clear

1	and carefully monitored. And that was
2	KATE McGRANN: And did you sorry, I
3	didn't mean to interrupt you.
4	JOHN JENSEN: No, that is fine.
5	KATE McGRANN: Please go ahead.
б	JOHN JENSEN: No, I was just going to
7	say, that infused every part of the project, was
8	making sure that we had rigorous standards for
9	confidentiality, for impartiality, for firewalls in
10	the appropriate places and that every element of
11	the project was overseen by the Fairness
12	Commissioner.
13	KATE McGRANN: And when you say the
14	Fairness Commissioner has more clout than a
15	Fairness Monitor, what do you mean by that?
16	JOHN JENSEN: Well, the Fairness
17	Commissioner has more say and gets more directly
18	involved than just sitting and watching.
19	KATE McGRANN: And to the extent that
20	you can help me with this, what is the difference
21	between the two?
22	JOHN JENSEN: I am not sure I can
23	be I don't know if I can be any clearer on it.
24	It is just my sense is that the Fairness
25	Commissioner has more authority in the process and

1 can get more involved in the process than a 2 Fairness Monitor who simply just watches and 3 records. 4 I quess I am not saying it very well. 5 Maybe I am not clear enough in my own mind, but my 6 belief is that a Fairness Commissioner is stronger 7 than a Fairness Monitor in terms of the role. 8 And do you know what led KATE McGRANN: 9 to the decision to retain a Fairness Commissioner 10 as opposed to a Fairness Monitor for this project? 11 JOHN JENSEN: We had engaged a Fairness 12 Commissioner I believe before IO came on. We had 13 always intended to engage someone, and it wasn't 14 until after IO came on -- and I am just trying to 15 remember now that the Fairness Monitor came up as 16 what they did. 17 I am not sure we ever doubted going full on Fairness Commissioner from the beginning. 18 19 To us it seemed to make the most sense. 20 KATE McGRANN: Any lessons learned from 21 the procurement process from your perspective? 22 Well, it is a little --JOHN JENSEN: 23 it is difficult for me to say anything about 24 lessons learned because I left when the contract 25 was awarded. So I really don't know what went on

1 going forward that would trigger should have done 2 this, should have done that, you know, needed more 3 language here, needed less language there. 4 It is difficult for me to say because, 5 having not seen what went on and what happened, it б would be hard for me to know. 7 KATE McGRANN: The Commission has been 8 charged with looking at the commercial and 9 technical circumstances that led to the breakdowns 10 and derailments on Stage 1 of the Ottawa Light Rail 11 Transit Project. 12 Are there any topics or areas that you 13 would suggest that the Commission look at in its

work that we haven't discussed today?

14

15 JOHN JENSEN: I don't think so. To me, 16 everything lies in the RFP and in the -- or not in 17 the RFP. In the Project Agreement, because that is 18 where all the obligations are mapped out. So to 19 the extent that RTG did or didn't comply with the 20 Project Agreement, without knowing where the issues 21 were, it is hard for me to say.

KATE McGRANN: The Commissioner has
 also been asked as part of his mandate to make
 recommendations going forward to prevent issues
 like this from happening again. Are there any

1 specific recommendations or areas of 2 recommendations that you would suggest be 3 considered as part of that work? 4 JOHN JENSEN: Like I said, without knowing what went on after I left in terms of RTG's 5 6 compliance with the program, it is difficult for me 7 to make any sort of a meaningful suggestion. Ms. Peddle, anv 8 KATE McGRANN: 9 follow-up questions? 10 CARLY PEDDLE: No, I don't think so. 11 Thank you. 12 KATE McGRANN: Mr. Wardle, did you want 13 to ask any questions of the witness? 14 PETER WARDLE: Nothing for me, thank 15 you. 16 Then that brings my KATE McGRANN: 17 questions for you today to a close, and we can go off the record. 18 19 JOHN JENSEN: Thank you. 20 21 -- Adjourned at 4:36 p.m. 22 23 24 25

1	REPORTER'S CERTIFICATE
2	
3	I, DEANA SANTEDICOLA, RPR, CRR,
4	CSR, Certified Shorthand Reporter, certify:
5	That the foregoing proceedings were
6	taken before me at the time and place therein set
7	forth;
8	That the statements of the
9	presenters and all comments made at the time of the
10	meeting were recorded stenographically by me and
11	were thereafter transcribed;
12	That the foregoing is a true and
13	certified transcript of my shorthand notes so
14	taken.
15	
16	
17	
18	Dated this 12th day of May, 2022.
19	$\sim$ 1
20	
21	
22	NEESONS, A VERITEXT COMPANY,
23	PER: DEANA SANTEDICOLA, RPR, CRR, CSR
24	
25	

		49:6 68:12	16, 17 71:22	99: <i>4</i> 120: <i>11</i>
	< A >	81:5 82:3 115:2	73:3 74:22	apologize 69:18
<\$>	ability 82:2, 6	advanced 24:2	80:6 85:18	apparent 18:17
<b>\$2.1</b> 115: <i>11</i>	99:16,20	25:8 47:15	90:4 91:5	appear 3:19,23
	absolutely	49:14 115:1,24	92:21 93:23	appended 5:12
<1>	60:19 80:7	advances	94:2 97:1, 7, 16,	applied 65:9
<b>1</b> 3:4 6:23, 24	accept 21:1, 19	114: <i>1</i> 8	<i>21</i> 99:5 100: <i>4</i> ,	74:4
7:4 9:1 10:6	acceptable 83:9	advancing 25:3,	15, 23 102:6	appreciate
11:14 13:23	accepted 21:5,	15 26:2 37:6	103:9, 15	117:17
14: <i>1</i> , <i>4</i> 15:6, 9,	10	49:18 51:2	106:10 111:5	approach 20:4,
14 24:18 27:23	accepting 21:25	advantage 56:2	123:17, 20	7 21:15, 18
28:11 29:21	22:1	advantageous	agreements	22:5 23:6
33:8 62:10, 17	accommodated	18: <i>18</i>	21:7 66:22	34:25 35:9
74:19 123:10	89:13	advantages 55:8	67:1 <i>4</i> , 19, 25	42: <i>16</i> 66: <i>5</i> , <i>8</i> ,
<b>12</b> 1:8	accomplish	advice 20:25	68: <i>19</i>	13 69:22 75:1,
<b>12th</b> 1: <i>16</i>	26:10 49:13	24:2 61:16	ahead 46:5	14 76:7, 25
125: <i>18</i>	accomplished	91:9 96:5	121:5	78:12, 19 81:19
<b>15</b> 71:22	95:18	advised 6:3	<b>aim</b> 6:6	84:5 89:2 107:2
<b>15-3</b> 71:22	accomplishing	78:11	aimed 73:13	approached
106:9	15:23	advising 75:13	aiming 28:9	20:21
	accord 38:21	advisors 53:7	align 27:16	approaches
<2>	account 45:17	54: <i>6</i> , <i>11</i> 61:2	alignment 28:17	65: <i>18</i> 66: <i>4</i>
<b>2.1</b> 115: <i>15</i> , <i>19</i>	accountable	62:2 63:22	49: <i>12</i> 116: <i>9</i>	77:6 78:15
<b>2:00</b> 1:17 4:1	89:2	65:23 69:24	allocated 78:20	approaching
<b>20</b> 7:7	accounted	75:20, 21 82:22	allocation 78:19	33:20
<b>2009</b> 5:15 15:10	62:16 88:24	91:16	allow 72:2	appropriate
<b>2012</b> 15:10	achieve 23:1	affect 19:3	allowed 63:5	61:11 62:7
<b>2020</b> 6:15	92:7	63:17	116:13	65:8 94:13
2022 1:8, 17	achieved 40:5	AFFIRMED 4:3	allowing 79:10	121:10
125:18	74:21	AFP 67:1	allows 25:11	appropriately
2035 62:23	acronym 16:14	after 5:2 8:18	63:12 113:17	38:78
. 2 .	ACt 5:75 6:3, 5	29:9 38:20	<b>AISTOM</b> $38:27$ , $24, 20:4, 40:47$	approval 19:23
< 3 > 2.25 74.14 16	00.0 actions 72:4	40.1 41.10	24 39.7 40.77	31.72 42.24
<b>3.23</b> 74.74,70 <b>3.20</b> 6.6	actively $\frac{99.15}{15}$	40.4 00.7, 77	42.1 44.9	approved 10:21
<b>3.30</b> 0.0 <b>3.35</b> 7/1/1/17	add 55.12 57.1	108.17 100.13	40.75 07.27	APPIOVEU 19.27
<b>30</b> 25.5 80.10	adding 57.4 7	100.17 122.14	102.17 10	47.7 40.4, 74, 16 /0.16 67.20
103.12	addition 17.8	afternoon 4.4	102.77, 79 103·22 104·10	71.2 72.22
<b>33(6</b> 5·14	additional 45.11	74·11	Alstom's 39.16	approximately
<b>33(7</b> 6·2	57·11 87·14	ago 24.10	alteration 56.24	119· <i>1</i> 7
	89:12 105:18	29:13 39:11 22	alterations	area 43:1
< 4 >	114.13	41.14 44.4	114.4	45.21 46.17
<b>4:36</b> 124:21	adhere 72:1	58:22 73:22	America 16:17	61:2 65:10
<b>4th</b> 6:15	Adjourned	agreed 23:12	amount 12:3.20	74:12 75:11
	124:21	66:2 86:9	14:19 82:21	88:10 90:7 95:7
< 5 >	adjust 26:21	96:25 98:8	118: <i>18</i>	areas 16:5
<b>5</b> 6:4	27:6 56:24	Agreement	ample 23:10	36:19 52:9
<b>5:00</b> 1:17	adjustment	11:19,22 13:22,	analysis 51:16	72:5 95:3
	27:11	24 14:5, 6, 8, 9,	54:18	123: <i>1</i> 2 124: <i>1</i>
< 6 >	adjustments	11, 14, 15, 17, 18,	answering 68:25	arose 40:21
<b>6/24</b> 3:5	27:12 40:11, 18,	23 18:7 23:10	anticipated	ascertain 28:23
	20, 22 41:1	52:16 53:2, 17	115: <i>10</i> , <i>1</i> 8	aside 45:16
< 9 >	advance 25:12,	59: <i>3</i> , 6 62:21	anybody 22:17	79: <i>14</i> , 25 91: <i>1</i> 3
<b>99</b> 63: <i>10</i>	18 26:6 27:15	63:4 64:4	83:13 96:4	
		67:23 68: <i>1</i> , <i>11</i> ,		

asked 5.17		hest 21.21 24	<b>BIG</b> 16.18	87.15 17 20
6·12 17·6 10	< B >	22.1 6 24.1	62.1 98.24	89.20 93.22
123.23	Bachelor 8.5	36.18 45.13 19	99.12 107.20	101·10 114·24
asking 17:15	back 10.21	46.15 52.6	board 16:24	117.22
20.15 35.7 0	23.23 24.10	58·4 65·21	17.21 23 10.20	hulk 72.14
20.10 50.7, 5 36·11 5/·10	26.10 24 37.8	67.11 75.18	17.17 67.5	<b>bue</b> $7.15 \ 00.11$
61.16 65.3	$10, 28 \cdot 0, 41 \cdot 1$	77.4 78.21 23	hody 95.14	buses 52.1
85.21 105.8	57·17 60·10	70.2 3 5 10	boy 00.21	business 102.7
aspect 26:13	$71.17 \ 0.09.19$	80.5 15 81.10	101.25	busy 60.7 18
31.12 83.15	88.25 01.12	22  00.0, 10  04.10, 04.10, 00.01	Boxfish 00.1	busy 00.7, 10
120.22	00.20 94.72 06·1 101·6	113·10 11/1·5	brand 33:17	< ( >
aspects 7.0	101.10 20	Botev 2.7	86.16 87.16	CAF 37.2 6
$10.20 \ 14.12$	110.11 113.10	better 27:16	broak 6.6.8	38.20
10.20 14.73	111.11 115.10	36·20 21 55·0	71.11 11	$\begin{array}{c} \mathbf{Calgary}  7.8 16 \\ \end{array}$
assambled	120.1	24 56.1 $4$ 5 0	broakdowne	8.6 18 0.6 7
86.21	hacktrack 27.6	24 JO. 1, 4, J, 9, 11 57:1 66:16	122.0	30.6
00.27	balanced $112:20$	77.7 116.16	123.9 Brian 00.9	solibrato 92.5 0
18.0	ball 81.22	hid 13:15	brief 7.2	calibrated 82:15
40.9 assigned 78.25	bankabla 38.2	37.25 30.6	bring 17:21 22	calibrating
assigned 70.20	75.22 76.2	37.20 39.0 77.10 00.0 7	Dring 17.27,23	calibratility
assisted 54.0	75.25 70.5 91·19	102.1 110.10	31.12 41.17	02.23 coll 7:20 51:15
87.20 21	baso 14:6	hiddahla 38.2	49.7 04.70	called 24.24
07.20, 27	based 12:1	75.22 76.2	99.77 100.23 11 <i>1</i> ·1 <i>1</i> 115·10	25.20
111.11	20.11 22.2	15.22 10.5	14.14 115.10,	$\mathbf{C}_{2}$
attend 60.2	20.77 02.0	biddor $14.21$	14, 10, 10, 20 bringing 10:20	<b>Callaua</b> $0.0$
attending 1:16	hasically 102.0	77.11	97.22	cap / 4.3
attention 60:17	101.1 119.10	hiddors 26:11	01.22 brings 57:7	capable 05.0
allention 00.77	104.4 110.70	20.0 12.10	Drings 57.7	capacities 7.70
audite 100.25	10.6 01.2 02.5	30.9 43.10 76.6 11 12	124.70 broad 29:15	62.22 80.10
authority 92:14	10.0 21.3 23.0 27.24 46.4	70.0, 11, 13	broader 70:17	02.23 00.19 capital 7:21
autionity 03.14	37.24 40.4 00.1 01.0	70.2 01.2 15	brought 11:14	16:12 25:6
00.17 121.20 available 11:10	00.1 94.9 hoor 79.21 22	10.2 91.3, 13	17 12:22 14:14	10.13 23.0
20 13.4 15.2	becoming 7:11	97.23 105.25	17 13.23 14.14	20.1, 4 29.0, 10
20 13.4 13.2	becoming 7.77	hidding 117:11	20:12 27:20	54.0, 10 40.25 52:10 19 54:10
20.1, 24 29.4	19:15	110.2	20.12 21.20	55.10, 10 54.19 55:15 64:5 0
50.1 40.15 60:22 65:17	hoginning	hide 29.1 6	30.21, 23 39.2, A A2:6 A7:6	16 70·16 75·7
77.10	122:18	$J_{10:6}$ 30.4, 0	4 43.0 47.0 67.5 02.16	00.6 01.0
award 11.6 0	hohalf 83.12	+0.0 11.7	00.15 10 100.0	90.0 91.9 02.10 04.5
12 11.12 60.7	07·8 107·12	80.10 101.10	115.16 116.18	92.10 94.0
13 14.12 00.7 02.20 07.15	boliof 88.1	101.9 11	120.1	108.12 101.3, 11
awarded 60.11	95·23 122·6	higgest 99.14	BRT 90.11 20	110.12 17
07·25 122·25	boliovo 8.10	15	budget 25:11	111.10
awaro 16.23	11·1 13·20	hill /1.8	111.12 15 20	care 102.0
37.5 39.21	15.8 16.14	billion 115.11	$21 \ 115 \ 2 \ 11$	career 7.7
40.21 25 41.3	31.23 37.10	<b>Bio</b> 6.16 7.7	14 116:22	careful 41.15
59.22 60.3 13	71.13 96.23	<b>bit</b> 9:15 12:6	build 56.14	61·14
75.3 78.13	122.12	26.10 47.25	86.20 87.23	carefully 63.22
91.12 95.17	hell 41.9	50.19 57.10	89:3 117:19	69.25 80.12
97.4 100.25	benefit 57.9	101.24 116.25	building 32.4	102.5 120.23
120:15	58.1 114.5	119.5.25	45.2 87.9 22	121·1
awhile 24.10	116.10	black 101.25	88.12	Carly 2:3 4.0
39.11 41.13	benefits 57.4	bleeding 33.14	buildings 116.16	113.8 124.10
44.4 58.22	86·23 87·4	34.4 46.10	built 13.24	carried 32.20
73.22	99.15 100.5	01.7 10.70	14.5 28.15	51.19
, U.LL	00.70 100.0		64:3 86:16	01.70
			0.10 00.70	

Case         Dial         The second s	<b>caso</b> 25:21	changes 10:11	110.6 114.5	commonts 16:0	06.17 109.7 0
$\begin{array}{c} 43.17 + 46.2 \\ 47.25 + 75.1 \\ charged 123.8 \\ cases 85.25 \\ chief 16:10 \\ array 17.2 \\ cases 85.25 \\ chief 16:10 \\ array 17.2 \\ cases 85.25 \\ chief 16:10 \\ array 17.2 \\ cases 85.25 \\ chief 16:10 \\ array 17.2 \\ cases 85.25 \\ chief 16:10 \\ array 17.2 \\ cases 85.25 \\ chief 16:10 \\ array 17.2 \\ ching 74.3 \\ chunk 104.18 \\ coses 107.2 \\ chunk 104.18 \\ coses 107.2 \\ chunk 104.17 \\ critical s41.7 \\ critical s4$	Lase 20.21		110.0 114.0	<b>77</b> , 4 105, 0	90.17 100.7, 9
47.25       Chargeo       123.6       Chargeo       123.6       Commercially       compliance         88:12       Cases       85:25       Chief       16:10       62:2, 3       63:9       compliance       95:7         catch       31:7       110:12       85:28       86:15       COMMISSION       42:23       37:9, 24       41:20         center       71:11       34:15       21       107:2       16:21       12:17       13:8       68:6       88:6 <td< td=""><td>43.17 40.2</td><td>70.5, 24 114.4</td><td>120.10, 13</td><td>77.7 125.9</td><td>complex 42.70</td></td<>	43.17 40.2	70.5, 24 114.4	120.10, 13	77.7 125.9	complex 42.70
$ \begin{array}{c} 36:12 & \mbox{cmmercially} \\ 37:1, 11 & \mbox{cmmercially} \\ 37:1, 12 & \mbox{cmmercially} \\ 38:1, 12 & \mbox{cmmercially} \\ 37:2 & \mbox{cmmercially} \\ 38:1, 12 & \mbox{cmmercially} \\ 38:2 $	47.20 70.7		City \$ 40.79		complexities
Cases 65:20         Chiler 10:10         Count 10:10         Count 10:10         Commercially         Commercially <td>88:12</td> <td>Chi 31:22</td> <td>40:72 57:5</td> <td>123:8</td> <td>95.7</td>	88:12	Chi 31:22	40:72 57:5	123:8	95.7
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	<b>cases</b> 85:25		62:2, 3 63:9		compliance
Catch317110:12B5:2286:15COMMISSION42:5, 844:24cemint80:21chunk104:18109:2114:1212:673:1376:14Cemtre 7:14circumstancescivil 5:19clarify19:1212:7, 13106:12107:2552:2212:3912:861:21clarify19:1212:162:1106:12107:2552:2212:397.560:560:52512:12, 14, 17,106:12107:2552:2311:17Citadis41:7, 9,clear 59:660:52512:26, 9, 12,compliances9:2493:4, 20City 1:717:26clearly53:1399:1490:338:3, 640:79:21093:4, 20City 1:7, 1717:2473:795:10108:1977:21, 22compliant37:136:1367:31616:11, 14, 15, 17, 2413:2110:10102:25104:1102:25104:176:1780:102419:15, 17, 2410:2212:20Commistion's103:14105:16125:11720:2521:21Closet 23:8compliant103:14103:7complement125:41728:2529:2224110:210:2514:2227:25complement125:11728:2529:2224110:2102:2114:2227:25complement125:11728:2629:222412:2120:58 <td>87:1, 11</td> <td>34:15, 21 107:7</td> <td>75:1 76:1, 25</td> <td>76:10 97:22</td> <td>37:9, 24 41:20</td>	87:1, 11	34:15, 21 107:7	75:1 76:1, 25	76:10 97:22	37:9, 24 41:20
	catch 31:7	110:12	85:22 86:15	COMMISSION	42:5, 8 44:24
$\begin{array}{cccc} \textbf{centre} & 80.21 & \textbf{chunk} & 104:78 & 109:2 & 114:72 & 123:7, 13 & 88:6 & 89:78 & 109:2 & 123:72 & 123:92 & 106:12 & 107:25 & 123:29 & 106:12 & 107:25 & 123:29 & 123:29 & 123:29 & 106:12 & 107:25 & 123:29 & 123:39 & 123:33 & 115 & 11 & 120:25 & 122:5 & 12 & 123:22 & 123:19 & 123:29 & 123:39 & 123:39 & 123:39 & 123:39 & 123:39 & 123:39 & 123:39 & 123:39 & 123:39 & 123:39 & 123:39 & 123:39 & 123:39 & 123:39 & 123:39 & 123:39 & 102:25 & 104:13 & 106:52 & 107:73 & 38:3, 6 & 40:73 & 38:3, 6 & 40:73 & 38:3, 6 & 40:73 & 39:12 & 15:16 & 162:5, 6 & 125:10 & 108:19 & 77:24, 22 & 121:20 & 108:19 & 77:24, 22 & 122:20 & 107:25 & 104:13 & 106:5, 15 & 106:13 & 100:19 & 17:24, 122 & 10:10 & 11:11 & 13:21 & 103:7 & 103:7 & 103:71 $	ceiling 74:3	<b>choke</b> 55:12	89:5 107:2	1:6 2:1 4:21	73:13 76:14
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	cement 80:21	<b>chunk</b> 104: <i>18</i>	109:2 114: <i>12</i>	123:7, 13	88:6 89:18
9:18, 19       10:1, 4       12:8       61:21       clarify       19:12       100:14	<b>Centre</b> 7:14	circumstances	<b>civil</b> 5: <i>19</i>	Commissioner	104:3 105:2
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	9:18, 19 10:1, 4	12:8 61:2 <i>1</i>	clarify 19:12	120:16, 19, 21	106: <i>1</i> 2 107:25
	52:22	123:9	54:9	121: <i>12, 14, 17</i> ,	124:6
9:2331:1511120:25122:516123:22102:136:1971:12citizens21:22cleare25:8commissioningcompliant37:1392:1093:4CITY17:72:6clearly53:1391:2392:341:2144:1394:207:15178:1,071:2473:795:10108:1977:21,2222certainly15:12210:1011:1179:22112:20commission's102:25106:5, 15certainly15:171618:17, 14, 15,climates12:2368:13complies104:562:1367:31618:11, 14, 15,13, 21committed123:19103:7complies104:562:1367:31618:17, 74:10124:17103:14105:16complementcomplementcomplementCertification2230:2, 2024110:220:5, 8, 11, 1414, 2211:2413:1913:1331:2, 1333:7clout120:2141:1942:2014:2220:25, 8, 11, 1414:2212:2493:2994:1918, 2040:3, 1341:6113:561:464:2265:266:160:1181:1181:1693:2994:1918, 2040:3, 1341:6113:561:464:2265:266:180:1181:1661:661:461:1181:1661:1661:1461:1161:1461:1461	certain 4:17	<b>Citadis</b> 41:7, 9,	<b>clear</b> 59:6 60:5	25 122:6, 9, 12,	compliances
$\begin{array}{llllllllllllllllllllllllllllllllllll$	9:23 31:15	11	120:25 122:5	18 123:22	102: <i>1</i>
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	36:19 71:12	citizens 21:22	clearer 25:8	commissioning	compliant 37:13
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	72:4 91:19	114:6	121:23	9:9, 14 90:3	38:3, 6 40:7
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	92:10 93:4.20	<b>CITY</b> 1:7 2:6	clearly 53:13	91:23 92:3.6	41:21 44:13
	94:20	7:15.17 8:1.19.	71:24 73:7	95:10 108:19	77:21.22
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	certainly 15:1	22 10:10 11:11	79:22 112:20	Commission's	, 102:25_104: <i>1</i>
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	37:22 38.12	15:18 16:2 5	climates 12.23	4:9. 13. 22 5:1 5	105:3 106:5 15
62:13       67:3       16       18:11, 14, 15,       13, 21       68:13       comply 104:11         76:17       80:10       24       19:15, 17, 24       close       22:18       committed       103:7       comply 104:11         88:17       20:25       21:21       74:10       124:17       103:7       complying       complying         125:1       17       28:25       29:12,       closely 38:8       closer 108:12,       19:17, 19, 21, 22       component 9:9,         certified       65:7       34:1       35:10       closely 38:8       closely 13:4       103:74       102:21       14:122, 22:25       14:22       22:25       22:25       30:22       55:22       55:3       57:4       60:23       30:22       55:22       55:3       57:4       60:23       30:22       55:22       55:3       57:4       60:23       30:22       55:22       55:3       57:4       60:23       30:22       55:22       55:3       57:4       60:23       30:22       55:22       55:3       57:4       60:23       30:22       55:22       55:3       57:4       60:23       55:10,20       55:10,20       55:10,20       55:10,20       55:10,20       55:10,20       55:10,20       55:10,20       5	40.22 53.14	10 17.4 7 15	climatic 12.20	commitment	complies 104:5
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	62.13 67.3	16 18.11 14 15	13 21	68·13	comply 104.11
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	76.17 80.10	24 10:15 17 24	close 22.18	committed	123.10
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	00.17	24 13.70, 77, 24 20.25 21.21	74.10 124.17	102.7	complying
$\begin{array}{c c c c c c c c c c c c c c c c c c c $		20.20 $21.21$	74.70 124.77	Committee	102.14 105.16
$\begin{array}{rrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrr$		22.0 24.3, 0, 12,		10:17 10 21 22	103.14 103.10
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$		17 28:25 29:12,	<b>CIOSE</b> 108:72,	19:17, 19, 21, 22	<b>component</b> 9:9,
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	certification	22 30:2, 20	24 110:2	20:5, 8, 11, 14	14, 22 11:24
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	93:13	31:2, 13 33:7	<b>clout</b> 120:27	41:19 42:20	14:22 27:25
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	certified 65:7	34:1 35:10	121:14	43:7 46:23	30:22 55:22
93:2194:1918,2040:3,134:16113:561:464:2263:1671:10125:4,1343:1444:7Co-Lead2:265:266:180:1181:6Certifier82:1246:948:5,254:667:2070:1785:292:2393:296:12,14,51:852:11collaborative71:172:22,23102:16109:1916,20,2453:754:6,194:15collaborative71:172:22,23102:16109:1916,20,2455:70,2056:7colleague4:8committeescomponentscomponentscertifying96:2557:1658:3collective53:1617:1410:1614:17cetar64:2159:7,9,18,23collective53:1617:1410:1614:17chain19:2260:2261:146:14111:1743:1373:1288:2089:4,1162:5,1163:20,come11:9company37:2,chailenge21:2369:2472:432:2247:14compensate43:1223:2573:2173:1675:4,1374:1477:2181:782:16concept99:16,1777:1178:1187:799:22competing80:1191:14challenge21:979:2,6,883:14,100:11108:2465:1293:9111:23challenge99:11100:5comes69:5199:11, 1993:9	91:25 92:19, 23	36:5, 9, 14, 15,	co-Counsel	50:22, 25 55:3	57:4 60:23
125:4, 1343:1444:7Co-Lead2:265:265:266:180:1181:6Certifier82:1246:948:5, 254:667:2070:1785:292:2393:296:12, 14,51:852:11collaborative71:172:22, 23102:16109:1916, 20, 2453:754:6, 194:1584:1, 2498:9113:25certify 125:455:10, 2056:7colleague4:8committeescomponentscertifying96:2557:1658:3collective53:1617:1410:1614:17cetera64:2159:7, 9, 18, 23combinationcomponents10:1614:1743:1373:12chain19:2260:2261:1746:14111:1743:1373:1293:5componentschailenge21:2369:2472:432:2247:14compensate43:12computer-basedchallenge21:2369:2472:432:2247:14compensate43:12concept33:899:16, 1777:1178:1187:799:22competing80:1191:1493:9111:23challenge17, 1985:16, 21,109:24117:7complet82:690:11, 1993:9111:23challenges99:11100:5coming25:8380:2282:9, 11concern 82:15concern 86:15challenges99:11100:5coming23:2380:2282:9, 11 </td <td>93:21 94:19</td> <td>18, 20 40:3, 13</td> <td>4:16 113:5</td> <td>61:4 64:22</td> <td>63:16 71:10</td>	93:21 94:19	18, 20 40:3, 13	4:16 113:5	61:4 64:22	63:16 71:10
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	125:4, 13	43:14 44:7	Co-Lead 2:2	65:2 66: <i>1</i>	80: <i>11</i> 81:6
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	Certifier 82:12	46:9 48:5, 25	4:6	67:20 70:17	85:2 92:23
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	93:2 96:12, 14,	51:8 52: <i>11</i>	collaborative	71:1 72:22, 23	102: <i>16</i> 109: <i>19</i>
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	16, 20, 24	53:7 54:6, 19	4:15	84: <i>1</i> , <i>24</i> 98: <i>9</i>	113:25
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	certify 125:4	55:10, 20 56:7	colleague 4:8	committees	components
cetera64:2159:7, 9, 18, 23combinationcommon86:1933:4, 2135:15chain19:2260:2261:1746:14111:1743:1373:1288:2089:4, 1162:5, 1163:20,come11:9company37:2,93:5chaired19:172165:2466:218:1029:124125:22computer-basedchallenge21:2369:2472:432:2247:1478:16compensate43:1223:2573:2173:1675:4, 1374:1477:2181:782:16concept33:899:16, 1777:1178:1187:799:22competing80:1191:14challenged21:979:2, 6, 883:14,100:11108:2465:1293:9111:23challenge-17, 1985:16, 21,109:24117:7complete82:6concepts99:2221:1522:523:697:9, 1198:23119:1490:11, 1995:18concerned40:8challenges99:11100:5coming23:23completed14:7,1154:2555:2541:18102:8concerned403:1958:2380:2282:9, 11concerns22:1839:15, 2045:10challenging104:4107:13105:25completely39:15, 2045:1020:1622:23108:5, 13, 14, 23commence4:2490:2365:483:1, 12<	certifying 96:25	57:16 58:3	Collective 53:16	17: <i>14</i>	10: <i>16</i> 14: <i>1</i> 7
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	cetera 64:21	59:7, 9, 18, 23	combination	common 86:19	33: <i>4</i> , 21 35:15
$\begin{array}{llllllllllllllllllllllllllllllllllll$	chain 19:22	60:22 61:17	46:14	111: <i>17</i>	43:13 73:12
chaired 19:1721 65:24 66:218:10 29:124 125:22computer-basedchallenge 21:2369:24 72:432:22 47:14compensate43:1223:25 73:2173:16 75:4, 1374:14 77:2181:7 82:16concept 33:899:16, 1777:11 78:1187:7 99:22competing80:11 91:14challenged 21:979:2, 6, 8 83:14,100:11 108:2465:1293:9 111:23challenge-17, 19 85:16, 21,109:24 117:7complete 82:693:9 111:23challenges99:11 100:5comes 69:5complete 82:6concept 99:22challenges99:11 100:5coming 23:23completed 14:7,concerned 40:867:14, 17 83:2101:14 102:7,58:23 80:2282:9, 11concerns 22:18challenging104:4 107:13105:25completely39:15, 20 45:1020:16 22:23108:5, 13, 14, 23commence 4:2490:2365:4 83:1, 12change 56:22109:12, 16, 21commencing4:14:1	88:20 89:4, 11	62:5, <i>11</i> 63:20,	come 11:9	company 37:2,	93:5
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	chaired 19:17	21 65:24 66:2	18: <i>10</i> 29: <i>12</i>	4 125:22	computer-based
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	challenge 21:23	69:24 72:4	32:22 47:14	compensate	43:12
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	23:25 73:21	73:16 75:4, 13	74:14 77:21	81:7 82:16	concept 33:8
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	99:16, 17	77:11 78:11	87:7 99:22	competing	80:11 91:14
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	challenged 21:9	79:2, 6, 8 83:14,	100:11 108:24	65:12	93:9 111:23
everything 21:15 22:5 23:625 89:8 91:16 97:9, 11 98:23 99:11 100:5comes 69:5 119:14complete 82:6 90:11, 19 95:18 completed 14:7, 	challenge-	17. 19 85:16. 21.	109:24 117:7	compiled 79:1	112:3. 11. 21
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	everything	25 89:8 91:16	comes 69:5	complete 82:6	concepts 99:22
challenges 67:14, 17 83:2 95:3 100:2299:11 100:5 101:14 102:7, 11, 20 103:19coming 23:23 38:3 54:7 58:23 80:22completed 14:7, 11 54:25 55:25concerned 40:8 41:18 102:8 concerns 22:18challenging 20:16 22:23 change 56:22108:5, 13, 14, 23 109:12, 16, 21commencing 4:1commencing 4:100:22 82:9, 11 completely39:15, 20 45:10 65:4 83:1, 12 84:16 87:14	21:15 22:5 23:6	97:9.11 98:23	119: <i>14</i>	90:11.19 95:18	concern 86:15
67:14, 17       83:2       101:14       102:7,       38:3       54:7       11       54:25       55:25       41:18       102:8         95:3       100:22       11, 20       103:19       58:23       80:22       82:9, 11       concerns       22:18         challenging       104:4       107:13       105:25       completely       39:15, 20       45:10         20:16       22:23       108:5, 13, 14, 23       commence       4:24       90:23       65:4       83:1, 12         change       56:22       109:12, 16, 21       commencing       4:1       completion       84:16       87:14	challenges	99:11 100:5	comina 23:23	completed 14:7	concerned 40.8
95:3       100:22       11, 20       103:19       58:23       80:22       82:9, 11       concerns       22:18         challenging       104:4       107:13       105:25       completely       39:15, 20       45:10         20:16       22:23       108:5, 13, 14, 23       commence       4:24       90:23       65:4       83:1, 12         change       56:22       109:12, 16, 21       commencing       4:1       completion       84:16       87:14	67:14.17 83.2	101:14 102.7	38:3 54:7	11 54:25 55:25	41:18 102.8
challenging       104:4       107:13       105:25       completely       39:15, 20       45:10         20:16       22:23       108:5, 13, 14, 23       105:25       commence       4:24       90:23       65:4       83:1, 12         change       56:22       109:12, 16, 21       commencing       4:1       completion       84:16       87:14	95:3 100:22	11.20 103.19	58.23 80.22	82.9.11	concerns 22.18
20:16       22:23       108:5, 13, 14, 23       commence       4:24       90:23       65:4       83:1, 12         change       56:22       109:12, 16, 21       commencing       4:1       completion       84:16       87:14	challenging	104.4 107.13	105.25	completely	39.15 20 45.10
change         56:22         109:12, 16, 21         commencing 4:1         completion         84:16         87:14	20.16 22.23	108.5 13 14 23	commence 4.94	90.23	65.4 83.1 12
	change 56.22	109.12 16 21	commencing	completion	84·16 87·1 <i>1</i>
	5 <b></b>		4:1		

101: <i>13</i> 103: <i>17</i> ,	95:24 120:23	conversation	<b>Crown</b> 5:20	31: <i>9, 11</i> 46:25
18 120:12	124:3	62:14 65:25	CRR 125:3, 23	55: <i>18</i> , <i>19</i> 61:2,
condition 79:4	considering	conversations	<b>CSR</b> 125: <i>4</i> , 23	<i>6</i> , 9   64:25
conditions 8:11	42:16 91:10	45:7	<b>CTP</b> 115:24	65: <i>11</i> 78: <i>14</i>
12:2. 14. 21. 24	consistent	conversion	118:8	85:5.9.12
30.10 18 19	114.15 17	90.19	<b>CTP's</b> 117.3	declaration
33.23 70.2	consortium 35.2	cone 81.21.22	Curriculum 3:4	A:13 120:18
06:25 106:11	constantly 21:0			doclared 102:24
90.25 100.77,		<b>copy</b> 0.12, 19	0.24	
20 116:77	construction	correct 5:9	<b>cut</b> 31:5	decoupling 35:7
conducted	55:10 59:25	15: <i>11 (</i> 1: <i>14</i>	<b>CV</b> 6:13, 20	deductions
23:15, 16 25:6	60:3 101:22	90: <i>15</i> 112:24	<b>cycle</b> 36:4	71:11 72:10
Confederation	102:23 106:25	118: <i>11</i>	89: <i>19</i>	73: <i>1, 2, 8</i> 74: <i>4</i>
8:3 11:2 <i>1</i> 13:5,	107: <i>10</i> , 22	corrected 13:20		deemed 5:16
<i>11</i> 14:2, <i>3</i> , <i>4</i> , <i>15</i> ,	108: <i>6</i> , <i>8</i> , <i>17</i> , <i>20</i> ,	corrections 5:2,	< D >	37:10, 17 38:20
18, 23 15:6, 9,	22 109:3 110:9	4, 12	<b>Dan</b> 19: <i>1</i>	40:7 41:2 <i>1</i>
15.20 24:19	14 111.9	correctly 11:2	dangerous 96:3	105:3
51.6	consultants	12.14 31.21	data 111.2	define 44.20
confidence	16:15 21	82.7	date 118:5 6	115.2
111.21 116.18	consultation	cost 56:1 5	dated 6:14	defined 17.25
114.24 110.70		<b>COSE</b> 50.7, 5	105,10	20:10 10 04
	47.27	19.14 100.5	125.70	32.12, 19, 24
39:18 76:10	consulted 47:4	113:20 114:3, 5,	<b>day</b> 1:76 90:70,	33:3 70:7
97:22	consulting	10, 24 115:10	12 95:19	/1:25 //:5
confidentiality	111:7	117: <i>17</i>	111:2 <i>1</i> 125: <i>18</i>	83:24 110: <i>16</i>
121:9	contained 71:21	cost-effective	days 80:23	111:5 118: <i>1</i>
configuration	contention	100: <i>10</i>	93: <i>19</i>	defining 52:16
113: <i>1</i>	83:23	costs 27:14	day-to-day 23:5	75:22 95:15
confirm 37:24	context 21:12	57:19, 20, 21	<b>DBFM</b> 24:18	105:23
confused 47:25	76:2 104:2	80: <i>1</i> 81: <i>11</i>	26:16 54:5, 8	definitely 60:25
connected 35:23	contingency	114: <i>14</i> 115: <i>18</i>	55:5 60:23	62:20
connects 35:22	114:24	116:20 117: <i>16</i> ,	deal 44:3 53:16	definition
consecutively	<b>contract</b> 11:6. 9.	19	dealt 80:6	112:13
118:23	13 14:21 55:21	<b>Council</b> 17: <i>14</i>	103:8	dearee 8:5.6
consensus	60:7.11 92:20	19:23 48:14	Deana 2:11	delay 81:7, 10
20.20 23 23.13	97.25 107.21	COUNSEL 2.1	125.3.23	deliver 22.8
78.15 84.11 22	108 16 25	2 3 4.6 10 18	debt 59.18 23	31.16
85:10 13	109.22 25	5.5 6.12	de-bug 91:20	delivery 10.23
consequences	122.24	couple 96.12	de-bugged 92.2	80°5
70.15 17 102.1	contracted	110.2	de-bugging 02:8	delivery-ready
102.4	102.11 100.21	110.2 course 10:12	decade 41.2	25.12
105.0 consider 79.2	102.77 103.24	22 52:16		20.70 Deleitte 16:10
	57.10 71.05	22 55.70		51:11 EA:16 25
	57.12 T1.25	Court 01.24	01.24	51.14 54.10,25 65:24 09:25
8.8 12.3, 20	104:25 106:8	89:17		65:27 98:25
14:19 52:18	contractor's	covered 53:2	34:7	99:12
54:17 55:15	106:14	64:7, 14	decision 17:22	Deloitte's 51:16
73:19 82:21	contractual	covering 52:19	20:18 24:21	demonstrate
95:13	62: <i>19</i> 102: <i>18</i> ,	Craig 34:22	25:22 35:12	44:23
consideration	22, 24	create 57:17	43:8 51:5, 12,	department
46:11 52:10	contractually	75:23	18, 20 52:5	48:7 62:2, 3
54:12 80:2	103:8	created 81:21	54:7 55:3	Deputy 15:18
88:22 90:17	Control 7:14	creates 55:20	57:25 64:20	17:7, <i>16</i> 18: <i>14</i>
considered	9:18 10:1, 4	56:7	85:2, 4 122:9	19: <i>15</i> 63:2 <i>1</i>
14:25 47:9, 11	43:13 48:7	critical 33:21	decision-making	derailments
64:3 65:18	52:22 80:17, 18	cross-section	51:8 85:17	123:10
66:5 80:12	81:4	54:23	decisions 19:18	describe 12:17
81:15 88:14, 18	controlled 9:21		20:9, 11, 20	15:22 17: <i>18</i>

neesonsreporting.com 416.413.7755

12.15 50.10	dosign/build-	Director 7:25	111.8 116.10	andad 62.25
42.10 50.19	tupo 25:12	15:17	110.70	77.12
01.9 110.74 decerihed 21:10	designed 29:14	ID. //	110.23 doubted 122:17	11.13 ondo 56:10
20.40 02.46	40:11	04.40	doubled 122.17	enus 50.79
39.19 03.10	49.// decigno 17:6	24. /2 dicallowed	drivera 0.20	energy 100.0, 7
describing 6.76	aesigns 47.0		<b>Unvers</b> 9.20	400.40
	/0:/4	38:20 diagonar 60:45	10:79 52:27	122:13
	<b>desire</b> 32.4	discover 60.75	112.70 driving 0.20	
3.3 /.2 13./3	01./0 desired 20.24	discretion 19.24	Griving 9.20	0.7 10.20
descriptions	desired 32.27		55.70 Duelle 44.7.44	47.17 49.14
112:14, 10		88:78 90:22	Dualis 41:7, 11	50.8 53.14
aesign 11.19	24.10 20.7	103.77,79	due 00.0	00.20 101.13
24.10, 20, 23	00.79 00.0 110:05 117:5	113.7 123.14 discussion		114.0 122.11 ongoging 50:12
20.4, 0, 7, 13, 14,	113.20 117.0 detailed 52:1	02:10 21 20:11	20.24	
10, 19, 22 20.1,		Z3.10, Z1 30.14	ε.	09.//
$0, 0, 12, 14 \ 21.7, 10 \ 22 \ 20.7$	90.0 detaile 02:1	40.10 00.11, 10,	< C> EA 20:25 40:14	16:10 12 24:15
10,22 20.7	06:10 09:1	20 00.27 03.3,	EA 30.23 49.14	10.10, 13 34.13, 21 20.16 64.16
33.3 33.24	90./9 90./ determination	19 00.7 07.10	30.//	21 30.10 04.10
40.24 40.3, 20		73.19 74.3 75:17 70:16		107.7, 79 100.2
47:22 48:1, 10	93:20 95:4	15:17 19:10	81:0 ••••••• 20:4 42	
49:1, 7, 9, 10, 17,	determine	82:4 84:18	early 39:4, 12	engineering
22, 24 50:3	42:20 49:11	85:7,8 89:7	78:7	16:9, 15 23:15,
51:3 55:10, 17	110.0 determined	90:76 99:3	easy 30:7	10 24:17,20
50:13, 23 10:12 70:44 00:2		106:27	eage 33:14	32:13 49:19,23
79:17 89:3	32:2 34:2 42:4	discussions	34:5 46:70	50:18 94:16, 23
94:17 101:21	determines	14:25 34:12		95:74 98:5
102:22 107:9,	34:70 118:9	53:75 58:24	effect 58:72	107:4 111:7, 77
17, 21, 22 111:1,	determining	60:24 61:79, 24,	effective 116:23	113:12, 14, 16,
9 113:78 114:7,	34:70, 77 70:4	25 62:8 63:15	119:7	21, 24 114:10,
9, 13, 18, 19, 20,		72:11, 14, 15		<i>13, 19</i> 115:6, 9,
21 115:1, 4, 23	28:5 71:24	76:70, 20, 27, 24 00:0 00:40 00	22:20 59:24	14, 24 118:14,
110:0 117:7	109:70	80:8 82:78,20,	<b>efficient</b> 110:4	20 120:1
118.24	developed 13:7	21 84.8 87.13	118.21	engineers 8:12
		91.0, 15 95.25	61:10 101:2	00.0 94.79 onbonood
20.4, 5 50.77	70.73 dovelenment	94.4, 10 99.9	01.70 101.3	115.22
07.2 docian/build		101.9, 13, 19	$\begin{array}{c} \mathbf{e} \mathbf{e} \mathbf{e} \mathbf{n} \mathbf{e} \mathbf{n} \mathbf{e} \mathbf{n} \mathbf{n} \mathbf{n} \mathbf{n} \mathbf{n} \mathbf{n} \mathbf{n} n$	110.20 oncuro 64:6
	10.75 55.70	102.73, 73	23 22.14 23.22 15:19 71:10	106:17
20.0, 7 20.70	30.20 dovisod 100.2	104.74,77	45.70 74.79	100.77 onsuring 107:15
44.21 40.4, 24 16:1 55:22	dialogue 16:8	dispute 05:2	04.20 120.17 121:10	ensuring 107.75
40.4 55.25	difference 26:4	dispute 95.5	121.70 alomants 14:24	entered 5:2 6
dosign/build/fina	121·20	dissonsion	25.12 27.25	11 6.22 17.22
nco/maintain	different 20:11	78.11	23.12 31.23 47:18 50:7	ontiro 54.23
	31.11 A8.22	dissonsions	47.10 JU.7 56:13 57:6	76.11 02.18
dosian/build/mai	77.6 86.1 08.16	78.17	82·3 100·1 0	107.0 112.18
ntain 11:1	difficult 30.10	document 6:12	02.3 100.4, 9 111.4 116.5	ontity 55:11
28.15 35.11 16	50.12 122.22	1/1 17 15.1	omorgoncios	56.12 80.15
20.15 55.14, 10 16:6 80:1 15	123.12 122.23	14, 17 13.1	52.2	ontry 17:10
design/build/mai	dia 37.10 80.10	documents	empty 93.16	30.16
ntenance-type	diligence 68.6	3.11 18 23.17	encouraged	environment
55.8	direct 58.20	52.10 101.21	23.18 25 85.7	30.4 7
design/builder	directed 67.0	doing 10.1 10	encouragement	environmental
46.2 56.21	directing 10.0	26.10 50.11	23·11	48·9
-0.2 00.2 i	direction 51.2	53·5 75·1 87·1	encouraging	$\frac{10.9}{\text{error}}$
design/buildere	directly 47.18	96·24 102·7	73.13 100.7	error-free 02.5
56.2	58.11 121.17	107.16 17	10.10 100.7	20

errors 5:10	66:1 67:20	84:18	field 7:13 29:8	formal 109:1
23:17	70:17 71:1	extensively 53:2	43:19	formed 24:23
escalated 64:21	72:22, 23 84:1,	extent 11:16	figure 118:4	forms 57:13
65: <i>1</i>	23 98:9	72:24 99:21	final 14:8	forth 38:9
escalators	exercise 85:6	102:7 103:23	42:23 55:3	94: <i>13</i> 125:7
116: <i>19</i>	113:25	106: <i>16</i> 121: <i>19</i>	66:2 85: <i>16</i>	forum 29:10, 13
establish 5:19	exercised 85:16,	123: <i>19</i>	97:15 98:1, 12	forward 20:13
establishing	17	external 87:6	110:3 120: <i>1</i> 7	25:20 26:22
107:2 108:4	exercises 23:16		finalized 109:4	27:3, 18 38: <i>4</i> ,
estate 16:4	Exhibit 6:23, 24	< F >	110:8 111:12	21, 24 39:2, 4
estimate 114:10	EXHIBITS 3:1	face 21:20	finally 85:2	41:6 44:22
estimators	existed 29:23	facility 10:14	finance 16:5	51:1/ 52:7
111: <i>1</i>	existing 9:4	52:21 86:12, 17,	35:15 57:4,7	53:3 56:7 58:7
Europe 30:8	51:24 expend 62:11	22, 23 87:0, 8,	59.70, 77.07.0	59:10 63:9 67:2 69:5
42:40	expand 03.77	$10 \ 00.13, 21$	23 90.24 financial 16:10	01.3 00.0
42.19 ovaluation	expanding 02.20	50.10 22 85.25	38.16 61.2 11	02.24 04.12 86.0 88.8
A1.18 10 A2.8	62.12 16 63.17	95·23 102·15	62.1 2 63.21	00.9 00.0 01·24 02·4
10 19	expectations	103.20 105.17	65.23 24 66.15	94.25 100.0 11
evaluations	50:13 106 13	19	69:14.24 70.7	102:4. 5 103:3
118:19	expected 21:19	factors 55:5	12. 24. 25 72:16	4. 10 104:5.8
event 58:4	experience 7:3,	66:12	73:11 75:20	105:5 106:6, 14,
71:11 80:3	7 10:7 15: <i>4</i> , 5	fair 62:12	82:22 83:7	20, 22 108:2, 16
114:3	28:5 34:9	63:14 72:9	97:23 98:4, 15,	110:1 114:11
eventual 62:11	39:17 43:18	fairly 29:19	21	123: <i>1</i> , 24
63: <i>16</i>	53:19 75:9, 11	30:11 63:6	financing 57: <i>19</i> ,	found 14:17
everybody	79:6, 12 87:24	86: <i>19</i> 95:8	21 60:23 63:16,	34:22
23:25 74:13	109:23	fairness 120: <i>13</i> ,	17 81:11 117:16	foundation
77:16 91:20	experienced	16, 17, 19, 21, 23	fine 121:4	51:20 53:17
evidence 4:12,	16: <i>15</i> 104:9, <i>11</i>	121: <i>11, 14, 15</i> ,	fine-tune 26:21	framework
22 5:3, 7, 11, 22	111:8	<i>16</i> , <i>24 122:2</i> , <i>6</i> ,	fire 106:14	109:2
6:1,5	expertise 13:2	7, 9, 10, 11, 15, 18	firewalls 121:9	frankly 60:8
evolved 18:21	64:17 78:25	familiar 30:22	firm 109:24	trequency
<b>exactly</b> 37:19	90:6 95:14	33:8 37:2, 3	flag 101:11	112:17
78:5 80:24	99:10 experte 75:7	59:79 91:20	TIOOF 30:27	frequently 69:3
examination 6.22	<b>experts</b> 75.7	93.0 111.23 112·25	31.10 32.3	1 <b>UII</b> 40.2, 24 17:1 67:1
0.23	ovnlain 54:5	Farroll 10.1	focussed 53.8	80.16 17 81.1
11.25 14.18	explained	fast 32.14 33.1	Focussing 47.20	90.10, 17 01.4 90.10 18 19
19.20 26:3	105· <i>12</i>	favour 55:5	folks 65.24	92· <i>14</i> 101·2 <i>1</i>
30:6. 7 32:23	explore 17:7	66:12	69:24 120:10	122:18
49:3 57:16	18:16	feasible 118:9	follow 68:5	full-blown 49:6
65:12 75:4, 24	explored 32:2	Federal 66:20,	followed 3:12	full-meal 44:3
82:1 89:9	exploring 17:5	24 67:15 68:17,	following 3:11,	fully 86:24 89:2
101: <i>16</i>	expressed 83:1,	22 69:10	19, 23	function 99:18
examples 100:1	13	Feds 68:2	follow-up 4:18	functional
116: <i>8</i> , <i>21</i>	expressing	feedback 76:6,	113:6 124:9	24:25 47:7
exceeded 72:5	39:15	14 107:25	force 55:16	49: <i>9</i> , <i>24</i> 50: <i>2</i>
executed 59:23	extend 62:24	feel 22:10	58:6	114: <i>19</i> , <i>21</i>
executes 59:18	63:5	105:8	foregoing 125:5,	functionality
Executive 20:5,	extension 9:3, 7	teet 106:14	12	47:10 48:19
8, 10, 13 43:7	extensions	tell 81:3	toremost 46:21	tunctioning
46:23 50:22	51:23 52:3	<b>Telt</b> 21: <i>19</i> , <i>22</i>	torgot 62:4	86:25 115:22
00.2 01.3 64.21 65.2	extensive (1:27	23.19 20.2	101111 10:2 09:8	110.23
UT.21 UU.2				110.20

neesonsreporting.com 416.413.7755

	1			
fundamental	governance	121:20	incidents 24:9	<b>in-market</b> 38:10
40:2 <i>4</i> , 25 89: <i>1</i>	19: <i>14</i> , 25 20:2	helping 120:10	52:23	44:7 62: <i>10</i>
funded 49:16	42:23 43:5	<b>high</b> 25: <i>1</i>	include 51:13	76:5 77:2
funding 11:7, 9	55:2 109:2	114:23 115:2 <i>1</i>	included 16:1	innovation 34:4
21:21 48:15, 16	Government	hire 109:21	35:16 64:14	innovative
66.19 67.14	66.20 25 67.15	hired 110.19	includes 93.15	99.20 23 100.1
68.17 19 114.5	68:22 69:10	111.6	including 7:10	input 47.2
futuro 51:21 23	granted 11:25	hiring 110.6	53·7	51.18 65.22
62:E 0		hit 70:4	inclusion 10:2	54.70 $05.25$
63.5, 9	42.5	hit 79.4		Inquiries 5.75
	greenlight 68:11	<b>noid</b> 57:76	91:17	inquiry 4:7
< G >	ground 5:17	106: <i>13</i> 119: <i>15</i> ,	inclusive 38:15	5:15, 22
<b>gains</b> 119: <i>4</i>	<b>group</b> 16: <i>15</i>	16, 22	incorrect 73:23	inside 101:23
<b>game</b> 43:25	59:17	<b>hook</b> 55: <i>19</i>	increased 117:1	102:8 117:3
55: <i>14</i>	<b>guess</b> 19: <i>11</i>	81: <i>10</i> , <i>11</i> 103: <i>11</i>	increases 33: <i>18</i> ,	instance 5:20
Gary 34:22	122: <i>4</i>	hoping 58:4	23	69:22
gate 111:21	Guest 99:8	host 98:5	incriminate 5:18	instructions
gates 111:16	guidance 51:16	hours 112:17	independent	34:13
general 36:11	0		16:22 82:12	integrate 45:12
46:22.24 50:21.	< H >	< >	93:2 96:12.13.	52:1
24 54:2 63:1.4	handed 114:22	ideas 99:22	16. 20. 24	integrated 44:9
6 71:5 75:17	handle 62.23	identified 52.10	<b>in-depth</b> 51.16	45.8
generally 20:23	79.10	99.7	INDEX 3.1 16	integration
24 21.17 20.20,	handled 48.11	identify 91.19	21	$AA \cdot 12  17  A5 \cdot 3$
2721.7720.7	52:15	identifying 65.5	indicated 7.6	75, 55.11, 56.14
32.23 01.70	bandling 109:10	identifying $00.0$	indiract 59:21	64.2 $70.11$
100.74 117.70	handover 52:20		indirect 50.27	04.2 $19.11$
119.7	handover 52.20	imagine 60.6	indirectly 56.72	09.4 IUI.22
geographic 82:2	nand-over	Impact 58:75		Intended 103:78
geography 8:9	110:75	80:3, 13	40:23	122:13
geo-morphology	hands 55:11	Impartiality	industry 28:5	intends 4:21
8:10	63:9	121:9	30:12 63:25	intention 90:24
geo-technical	happen 53:17	impetus 57:11	64: <i>7</i> , <i>20</i> , 25	interest 17:4
74:21 75:2, 11,	58:24 63:12	implement 83:15	86: <i>19</i>	interested 57:9
14 76:8, 17, 25	80:25 109:20	Implementation	influence 58:2,	61: <i>15</i>
78:23 79:2, 15,	110: <i>1</i> 116: <i>14</i>	7:25	21	interests 52:6
18 83:15 84:5	happened 29:14	implemented	inform 27:22	79: <i>19</i>
116: <i>12, 17</i>	79:24 95:22, 24	77:24 78:6, 7	information	interface 35:20
Gillani 2:12	123:5	84:6	9: <i>15</i> 13:3, 7, 9	36:6 52:12, 20
<b>give</b> 9:15	happening	implementing	18:21 20:12, 15,	53:8, 12, 22
15:12 99:25	123:25	83:20	17 24:14 50:3	101: <i>14</i> . 16
<b>aiven</b> 5:8,21	happens 101:23	implications	54:21 112:23	109:14 112:15
42:13 61:17	hard 123:6.21	89:10 103:20	informed 14:22	interfaces 52:17
74.5 87.15	headed 31.17	104.17 105.13	24.14 47.2	101.15
102.18 114.21	heading 29.21	importance	Infrastructure	interim 65.17
aiving 6:1	heard 31.5	10.18 51.25	13.25 11.6	internally 30.15
68.23 06.1	80.22 03.0	importantly	16.20 17.1 5	01.16
$00.23 \ 30.7$	boaring 61:15		17.24 17.7, 0,	internlay 92.1
90.20 107.24	hearings 4:14	90.20	17, 24 10.2, 19	intervent 121.2
<b>Good</b> 4:4 9:44	11ed1111ys 4.14,	improved 110.7	19.3, 9, 20 54.20 67.5	interrupt 121.3
<b>GUUU</b> $4.4$ $0.11$	22, 23, 24 Hold 1:15		04.20 01.0 70.14 75.40	intervene 4:70
30.3, 0, 7 35:70,		110.12	10.14 15:19	4:77,
11, 10 50:1	24:12 30:17	inaccurate 43:2	90:3 99:12	10, 19, 20 6:7
87:12 98:22	12:15 16:10, 12	Incentive 57:18	120:9	introduce 88:23
99:2 100:5, 10	neip 18:3 38:5,	81:72	Intused 121:7	89:12
104:18 113:16	13 44:15 72:25	incentives	Initial 48:10	introduced
120:24	99:21 109:25	57:22 82:5	initially 8:1	88:14 103:20
	l l			105·18

neesonsreporting.com 416.413.7755

105:18

intro du olivor	11.5 10 10:0	40 45 07.0 40	E7.0 E0.0 44	0.17 01 0.10
Introducing	11:5, 76 12:9,	10, 15 97:3, 10,	57:0 58:8, 14,	8:17,24 9:12,
45:10	15, 19 13:8, 14,	14, 18 98:13, 19	22 59:20 60:2,	25 10:5, 23
introduction	19 14:1, <i>4</i> , 10,	99: <i>8</i> , <i>14</i> 100: <i>3</i> ,	24 61:8, 23	11: <i>3, 11</i> 12: <i>5</i> ,
21:15 87:14	16 15:7, 11, 16,	<i>17</i> , <i>19</i> , <i>25</i> 101: <i>5</i> ,	62:13, 18 63:18	11, 16 13:6, 12,
investors 57:8	25 17:3 12.22	18 102:21	64:5.23 65:3	17. 22 14:3. 7.
invited 29.11	18.12 19.1 5	103.23 104.15	13 19 66 6 14	13 15 3 8 12
	$11 \ 20.6 \ 10 \ 22$	$20 \ 105.25 \ 104.10,$	$21 \ 67 \ 21 \ 10 \ 11 \ 16$	22 16:25 17:10
		20 103.73, 27	21 01.2, 11, 10,	40 40·0 22
involved 8:9	21:2, 17 22:7,	107:4, 74 108:8	24 68:14 69:4,	18 18:8, 23
9:2, 8, 13 10:1	22 23:8 24:4,	109:4, 8 110:5,	11, 23 70:6, 11,	19:2, 8 20:4, 7,
15:9 32: <i>1</i>	23 25:24 26:18	<i>11</i> , <i>25</i> 111: <i>13</i> ,	21 71:7, 13, 20	<i>19, 24</i> 21: <i>14</i>
34:25 38:8	27:10, 24 28:12	25 112:5, 8, 11,	72:13 73:4, 11	22: <i>3</i> , <i>1</i> 7   23:5,
47:5, 19, 23	29:2, 24 30: <i>15</i> ,	24 113:2, 15	74:6, 15, 24	23 24:16 25:21
48:1, 3, 12, 13,	24 31:8, 20	114:17 115:13,	75:5, 16 76:9	26:13 27:4, 19
24 49:23 50:5	32:3, 9, 18	20 117:2, 12, 25	77:3, 18, 25	28:7, 19 29:20
51:10 54:12.24	33:10.13 34:6.	118 11 16	78:5. 13. 24	30:14.17 31:4
66.21 67.8	15 21 35 4 12	119.11 20	79.20 80.7	17 25 32 7 16
70.4 10 18 22	36.16 37.3 8	120.3 8 15	82.7 10 83.1	33.6 11 31.1
70.4, 70, 70, 22	10 20.10 31.3, 0,	120.3, 0, 10	17 22 94 7 17	11 10 24 25.9
71.10 75.13, 19,	10 30.12,23	121.4, 0, 70, 22	17, 22 04.7, 17	11, 19, 24 33.8
20 79:9 86:70	39:3, 9, 27 40:0,	122:11,22	85.14 86.4, 13,	36:10,24 37:5,
93:1, 2, 24 94:4	14, 20 41:9, 13	123:15 124:4, 19	18 87:18 88:2,	15 38:8, 19, 25
97:8 98:3, 11,	42:2, 7, 18 43:9,	job 55:17 73:14	17, 25 89:14	39: <i>7</i> , <i>14</i> 40:2,
14 99:8 108:22	16, 24 44:10, 19	<b>JOHN</b> 1:7 2:6	90:2, <i>14</i> , <i>21</i>	<i>10, 16</i> 41: <i>5, 11,</i>
113: <i>1</i> 3 117:20	45:13, 19, 23	3:4 4:3 6: <i>10</i> ,	91:6, <i>11</i> , 22	24 42:3, 14
118: <i>15</i> 120: <i>6</i> ,	46:6, 15, 21	18, 21, 25 7:6	92:9, 25 93:12	43:4, 11, 21
16 121:18 122:1	48:3 49: <i>4</i> , 25	8:23 9:5, 17	94:3, 10, 15	44:5, 15 45:5,
involvement	50:5, 23 51:7,	10:3, 8, 25 11:5,	95:6, 21 96:7,	15, 22 46:5, 8,
10:6 17:1 18:9	12 52:14 53:10.	16 12:9. 15. 19	10. 15 97:3. 10.	18 47:20 48:22
46.19 47.21	25 54.9 15	13.8.14.19	14 18 98 13 15	49.20 50.1 17
50.2 20 24	55.7 56.11	14.1 4 10 16	19 99.8 14	51.4 9 52.8
51.5 66.10	57:6 58:8 1/	15.7 11 16 25	100.3 17 10 25	53.6 20 54.3
00:5 107:1	22 50.20 60.2	17.2 12 22	101.5 19	11 55.4 56.9
99.0 107.7 109.4	22 59.20 00.2,	17.3, 72, 22	101.3, 78	F7:2 24 E9:40
100.4	24 01.0, 23	10.12 19.1, 0,	102.27 103.23	57.3, 24 $50.10,$
IU 20:25 23:24	62:13, 18 63:18	11 20:0, 10, 22	104:15,20	19 59:8, 15, ZZ
24:2, 8 84:4, 15	64:5, 23 65:3,	21:2, 17 22:7,	105:15,21	60:19 61:5, 13
85:18,22 98:11,	13, 19 66:6, 14,	22 23:8 24: <i>4</i> ,	107:4, 14 108:8	62:9, 15   63:14,
17, 21 120:20	21 67:2, 11, 16,	23 25:24 26:18	109: <i>4</i> , 8 110: <i>5</i> ,	<i>24</i> 64: <i>19</i> , <i>24</i>
122: <i>12</i> , <i>14</i>	24 68:14 69:4,	27:10, 24 28:12	<i>11</i> , 25 111: <i>13</i> ,	65: <i>11, 14</i> 66: <i>3</i> ,
<b>issue</b> 11:7	11, 23 70:6, 11,	29:2, 24   30: <i>15</i> ,	25 112:5, 8, 11,	10, 18, 23   67:10,
46: <i>16</i>	21 71:7, 13, 20	24 31:8, 20, 22	24 113:2, 15	<i>13, 21 68:9</i>
issued 97:20	72:13 73:4, 11	32:3, 9, 18	114: <i>1</i> 7 115: <i>13</i> ,	69:1, 7, 17 70:2,
issues 45:14,	74:6, 15, 24	33:10, 13 34:6,	20 117:2, 12, 25	9, 18 71:4, 9, 16
15 56:22 60:13	75:5, 16 76:9	15, 21 35:4, 12	118: <i>11, 16</i>	72:9, 24 73:6,
65:10 81:1.3	77:3. 18. 25	36:16 37:3.8.	119:11.20	24 74:10. 18. 25
83.4 23 84.2	78.5 13 24	18 38.12 23	120.3 8 15	75.12 76.4 22
91.20 123.20 24	79.20 80.7	39.3.9.21 40.6	121.4 6 16 22	77.15 23 78.3
items 3.12	82.7 19 83.4	14 20 41.9 13	122.11 22	10 18 79.14 23
iterative 27.11	17 22 84.7 17	12.2 7 18 13.0	123.15 $124.4$ 10	81.25 82.17 25
17	85.14 Rev 1 12	$16 24 AA \cdot 10 10$	iningd 1.8	82.11 10 RA.2
17	10 07.10 00.7	10,27 77.10,13	joining 62.20	12 85.11 004.0,
	10 01.10 00.2,	40.10, 19,20	jumping 02.20	10 00.11 00.2, 7 14 07.40 05
	17,25 89:14	40:0, 70, 27	jumping 69:78	7, 14 01:13, 25
JENSEN 1:/	90:2, 14, 21	48:3 49:4, 25	113:70	88:11, 19 89:7,
2:0 3:5 4:3, 5	91:0, 11, 22	50:5, 23 51:7,	14	22 90:8, 76
6:10, 18, 21, 25	92:9, 25 93:12	12 52:14 53:10,	< K >	91:2, 8, 13 92:5,
7:6 8:23 9:5,	94:3, 10, 15	25 54:9, 15	Kate 2:2 4:4, 5	22 93:8, 24
17 10:3. 8. 25	95:6.21 96:7.	55:7 56:11	6:11. 19. 22 7:1	94:8.12 95:2.

neesonsreporting.com 416.413.7755

	C2:0 10 21		Low 20.24	100.00 100.11
10 96:1, 8, 11,	62:8, 19, 21	level 9:23	IOW 30:27	106:23 109:14
21 97:6, 12, 17	63:1, 2, 4, 7, 10	24:24 25:1,4	31:10 32:5	110: <i>8</i> , <i>21</i> 111:2
98: <i>11, 18</i> 99: <i>4</i> ,	64: <i>14</i> 96: <i>18</i>	37:13 47:7	36:8, 14 114:23	<b>Manager</b> 15: <i>18</i> ,
10, 25 100:13,	97:5 123:3	48:17,21 49:1	LRT 9:7 10:6	19 17:7, 15, 16
18.21 101:2.12	large 102:16	114:23 115:2 <i>1</i>	62:12 74:20	18: <i>14</i> . <i>15</i> 19: <i>16</i> .
102.13 103.16	103.21	levels 49.9	90.12	17 24 46.22 24
104:13 16	late 81:11	75.22 03.4	00.72	50.21 25 85.21
104.75,70		110:17	- M - S	50.27, 25 65.27
			< 1V1 >	manager/leader
106:23 107:11	launched 89:24	liability 5:19	made 5:2, 4, 12	108:15
108:3 109: <i>1</i> , 6	lawyers 61:1	lie 55:9	11:20 13: <i>4</i> , 7	managers 31:22
110: <i>4</i> , 7, 20	lead 15: <i>19</i>	lies 46:1, 3	17:23 19: <i>19</i>	managing 10:3
111: <i>10</i> , 22	18:3 19:6 22:6	55: <i>11</i> 103: <i>13</i>	20:11, 20 24:22	50:6 89:17
112:2. 7. 9. 21.	34:17 38:14	123: <i>16</i>	25:18 27:12	107: <i>12</i>
25 113:4.10	70:12,22,25	life 36:4 86:5	28:1 31:11	mandate 123:23
114.8 115.7 17	94.3 117.10	89.19	35.13 44.13	manner 23.1
116.24 117.0	loador 72:19		47.1 51.9 52.5	07·1
110.24 117.9,			47.1 51.6 52.5	
21 118:7, 12	109:27, 23	7:4, 11, 12 9:2,	57:25 61:6, 10	manufacture
119:6, <i>16</i> 120:2,	leading 34:12,	4 10:11 11:15	65:17 69:9	88:21
6, <i>11</i> 121:2, <i>5</i> ,	16	31: <i>10</i> 32: <i>4</i>	76: <i>5</i> , 24 85: <i>4</i> ,	manufactured
13, 19 122:8, 20	leads 117:13	95: <i>11</i> 123: <i>10</i>	12 125:9	86: <i>11</i>
123:7, 22 124:8,	learn 11:17	likelihood 33:23	maintainer	manufacturer
12. 16	learned 11:12	limited 60:12	52:13	86:8
keening 27.2	122.20 24	lines 25:19	maintaining	manufacturers
81·18	loaving 15:15	51.24 80.11	87·10	$20.11 \ 17$
kont 17:2	70.14 25 01.12	litigation 2:2	maintananaa	29.11, 17
<b>Kept</b> 47.2	19.14, 20 91.13			
<b>key</b> 35:75	97:13	LLP 2:8	7:27 10:73, 75	106:24
kind 18: <i>12</i>	led 16:25	long 29:13	14: <i>20, 21, 22</i>	<b>mapped</b> 31:1
43:6 46:13	21:14 93:25	39:22 97:18	36:4 46:1	82: <i>10</i> 102:5
58:12 72:7	113:13 114:12	102: <i>10</i> 117:23	52:20 53:23	109: <i>10</i> 111:3
80:3 81:23	117: <i>1</i> 122:8	longer 57:20	55:13, 18 70:3	112:20 123: <i>18</i>
kinds 31:10	123:9	87:8 117: <i>18</i>	71:22, 25 72:7	market 28:24
knew 29.6	<b>left</b> 9.11 60.12	long-term 36:3	73.9 12 86.12	29.2.23
77.20 111.5	100.15 103.4	46.1 55.13 18	21 87.2 7 88.5	Master 8:5
knowing 63:7	100:5 7 110:10	67:6 80:18	12 80.2 10	match 25:10
100,00 104.5	111.12 112.4	07.0 09.70	100.17.00	77.7
123.20 124.3	111.12 112.4	100keu 17.19	102.17,23	//./
knowledge 8:11	122:24 124:5	22:13 29:25	103:11, 22	matched 26:2
29:16 41:24	legal 16: <i>18</i>	50: <i>4</i> , 20 51: <i>10</i>	104: <i>18</i> , <i>24</i>	material 42:20
44:8 46:25	38:17 54:20	58:8 66:7	106:8, 11 112:15	43: <i>9</i>
60:6, 10 79:1	61: <i>10</i> , <i>16</i> 62: <i>3</i> ,	69: <i>16</i> , 25   75: <i>4</i> , 6	maintenance-	materialize
116: <i>1</i> 7	5 64:11 70:23,	looking 11:25	related 10:18	79:18, 25
known 85: <i>8</i>	24 72:15 75:21	12: <i>4</i> , <i>1</i> 2 18: <i>18</i>	making 20:8	materialized
	82:22 97:21.24	28:25 29:22	55:17.18 57:9	79:15
<1.5	98· <i>4</i> 107·20	31.3 33.7	76.2 121.8	materials 11.18
labour 117.20	legislation 64:13	11.20 13.18	manage 36.18	matter 62:4
laddor 77:10.24	londors 55:15	71.20 $70.70$	20 22 55·22	95·24 110·5
70:11 01:10, 24		03.22 74.70	20, 22 55.22	85.24 110.5
78:11 81:19	57:7 58:7, 6, 9,	80:8 81:25	80:15 89:20	matters 100:6, 8
83:16, 20, 24	11, 15, 16 59:24	105:24 113:4	102:25 108:16	McGrann 2:2
84:9, 19	75:24 81:22	123:8	116:22	4: <i>4</i> , 5 6: <i>11, 19</i> ,
lag 27:2	length 40:23	looks 25:10, 11	managed 9:19	22 7:1 8:17, 24
lagged 25:22	119: <i>19</i>	95: <i>15</i>	22:8 33:19	9: <i>12</i> , 25 10: <i>5</i> ,
land 8:8 66:1	lengths 62:24	lot 12:11 32:18.	79:19 101:15	23 11:3, 11
landed 71:2	lenient 23:20	21 33:4 71:23	103:9	12:5. 11. 16
80.14 85.2	lessons 11.12	85.1 93.5	management	13.6 12 17 22
	122.20 24	114·24 116·19	7.10 67.22	14.3 7 13 15.2
22.0 12 50.40	122.20, 27		1.10 01.22	9 10 00 10.0,
23.3, 12 32.19	IGUEI 00.12	10vely 00.20		0, 12, 22 10.23

neesonsreporting.com 416.413.7755

17: <i>10, 18</i> 18: <i>8</i> ,	104: <i>13</i> , <i>16</i>	memory 39:11	money 57:14	negotiated
23 19 2 8 20 4	105.7 17	43.2 45.13	73.17 113.19	68.20 98.1.2
7 10 24 21.14	106·23 107·11	66:16 67:11	Monitor 120:20	100:15
7, 79, 24, 21.74	100.23 107.17	74.14 94.00		
22.3, 17 23.5,	108.3 109.7, 6	/1.14 04.22	121.15 122.2, 7,	negotiating
23 24:16 25:21	110: <i>4</i> , <i>7</i> , 20	mention 62:4	10, 15	66:19, 22 67:14
26: <i>13 27:4</i> , <i>19</i>	111: <i>10</i> , 22	mentioned 10:9	monitored 121:1	negotiation
28:7, 19 29:20	112:2, 7, 9, 2 <i>1</i> ,	31:7 78: <i>18</i>	month 74:5	18:9 97:7, 15
30: <i>14</i> , <i>1</i> 7 31: <i>4</i> ,	25 113: <i>4</i> , <i>10</i>	80:11 96:11	monthly 71:11	100:22
17 25 32 7 16	114.8 115.7 <i>1</i> 7	113· <i>11</i>	73.1.2.9	negotiations
33.6 11 34.1	116·2 <i>4</i> 117·9	met 43.19	months 117.15	97.8 98.12 99.6
$11 \ 10 \ 24 \ 35.8$	$21 \ 118.7 \ 12$	71.12 02.11	16 110·1 <i>1</i> 17 22	novor-onding
11, 19, 24, 55.0	21 110.7, 12	71.72 92.77	10 119.14, 17, 22	
36:10,24 31:5,	119:6, 76 120:2,	94:20 97:2		74:8
15 38:8, 19, 25	<i>6</i> , <i>11</i> 121:2, <i>5</i> ,	105:5 106:3	<b>MOU</b> 18:9, 22	<b>new</b> 9:3 33:17
39: <i>7</i> , <i>14</i> 40:2,	<i>13</i> , <i>19</i> 122: <i>8</i> , <i>20</i>	methodology	68:7, <i>10</i> 85: <i>18</i>	45: <i>18</i> 46: <i>14</i>
10, 16 41:5, 11,	123:7, 22   124:8,	21:8	<b>move</b> 35: <i>13</i>	86: <i>16, 19</i> 87: <i>16</i>
24 42:3, 14	12, 16	methods 56:3	48: <i>5</i> , <i>14</i> 51: <i>17</i>	88:21 89:11
43:4. 11. 21	meaningful	79:3.12 80:17	81:12 84:12	no-bid 81:20
44.5, 15, 45.5	124.7	81.4 118.5	102.3 103.3	non-compliant
15 22 46:5 8	means 0.10	milestone 65:15	104:5	37.11 17 20
10, 22 + 0.0, 0, 0, 10, 10, 10, 10, 10, 10, 10, 10,	22:14 EC:14	16 66:4 12	moved 7:24	20.20 00.10
10 41.20 40.22	33.14 30.14	10 00.4, 13		30.20 00.70
49:20 50:1, 17	79:3, 11 80:17	69:19,22 82:13	8:14 48:17	non-
51: <i>4</i> , 9–52:8	81:4 118:4	96:17	108:6	typographical
53: <i>6</i> , <i>20</i> 54: <i>3</i> ,	<b>meant</b> 8: <i>9</i> , <i>21</i>	milestones 82:5,	<b>moves</b> 49: <i>15</i>	5:12
11 55:4 56:8	37: <i>11</i> 106: <i>1</i> 3	8	moving 27:2, 18	normal 113:23
57: <i>3</i> , <i>24</i> 58: <i>10</i> ,	118: <i>17</i>	mind 26:20	47:8 102: <i>4</i> , 23	normally 79:8
19 59:2, 8, 15,	measure 68:2	37:19 39:23	103:3 105:5	North 16:16
22 60:19 61:5	71: <i>1</i> 8	41:4 43:15 17	106: <i>19</i>	Northern 30:8.9
13 62.9 15	mechanism	52.11 55.6	multi-faceted	North-South
62·11 21 61·10	70.2 20 71.5	57.24 59.22	16·1	10.11 24 11.12
03.14, 24 $04.19,$	70.3, 20 71.5	51.24 50.25		10.11,24 11.12
24 05.11, 14		59.7 69.5	multiple 52.2	12.1, 12 13.1,
66:3, 10, 18, 23	61:12 70:7, 13	101:7 119:14		13, 16 14:2, 9,
67:10, 13, 21	72:21 73:15, 20	122:5	< N >	10, 21 15:4
68:9 69:1, 7, 17	94:2 <i>4</i> 106: <i>19</i> , <i>21</i>	<b>minute</b> 111: <i>16</i>	named 37:2	27:22 28:8
70:2, <i>9</i> , <i>18</i> 71: <i>4</i> ,	meet 37:23	minutes 69:12	names 98:20	43:23
9, 16 72:9, 24	44:2 <i>4</i> 94: <i>1</i> 9	miscellaneous	Nancy 31:23	noted 3:18, 22
73:6, 24 74:10,	101:25 102: <i>1</i>	16:2 <i>1</i>	nature 45:23	notes 113:5
18.25 75:12	117:24 118:5	<b>mix</b> 18:5	51:2 <i>1</i>	125: <i>13</i>
76.4 22 77.15	meeting 23.9	mixing 41.15	near 14.8	nuclear 72.6
23 78.3 10 18	88·4 107·23 24	model 10.23	necessarily	number 38.3
70.14 22 81.25	125:10	18:18 10 25:17	24.7 56.10	10.12 03.10
92.17,25 01.25 92.17 25 92.11	$\frac{125.70}{125.14}$	10.10, 19 20.11,	24.7 50.75	
02.17, 20 $03.11, 10$	meetings 10.14	20, 23 20.2, 0		90.10 99.9
19 84:3, 13	38:13, 18 39:19	27:8 35:13	98:25 108:23	115:76 119:74
85:11 86:2, 7,	68: <i>4</i> , 23 69:2, <i>3</i> ,	40:17 44:21	needed 22:4, 20	numerous 75:8
14 87:13, 25	12   76:10, 12	46: <i>4</i> , 7 51:17	26:25 27:5	76: <i>9</i> , <i>16</i> 93: <i>15</i>
88: <i>11, 19</i> 89:7,	97:22 118:25	54: <i>5</i> , <i>1</i> 3   55: <i>9</i> ,	40:13 47:16	95:11, 22, 24
22 90:8, 16	Member 2:2, 3	20, 23 56:6, 9	73:18 98:2	97:2 <i>1</i>
91:2, 8, 13 92:5.	4:9 46:22	59:5 66:2	109:2 <i>0</i> , 21	
22 93:8. 24	50:21 85:6	69:21 80: <i>9</i>	110:1 111:5.20	<0>
94:8.12 95:2	105:23	89:1.15 101 19	123:2. 3	object 6.4
16 96.1 8 11	members 22.18	103.4 116.7	needs 47.0	objected 5.16
21 07.6 12 17	18.25 101.20	models 5/1.22	AQ·13 57·11	
21 JI.U, 12, 11	+0.20 104.22,	moderating 50.0	67.7	00 JECHIVE 21.20
JO.11, 10 JJ.4,	23 100.10	moment 40:40		23.1 30.7, 12,
10, 25 100:13,		moment 42:12		10, 22 38:1, 5
18, 21 101:2, 12	17:24	69:20 91:14	125:22	40:5 75:25
102:13 103:16			I	I

115:3	operating 10:18	<b>O-Train</b> 7:19	<b>P3</b> 10:7 15:5	partner 68:17.
<b>obligate</b> 101:21	12:2. 7. 23	8:20 50:7	59:5 66:25 67:9	18 104:10
obligation	52:25 87:10	<b>OTTAWA</b> 1:6, 7	<b>P3-type</b> 18:18	Partners 16:13
103:13 106:4	95:11, 12 109:13	2:6 4:6 8:1, 22	package 36:2	21:22 25:6
109: <i>16</i>	operation 7:22	9:1 10:6, 10	PAGE/LINE 3:3,	28:1, 4 29:5, 16
obligations	9:21, 24 45:25	12:3, 22 13:1	19	34:8, 17 48:25
102:22 103:22	87:8 93:5	16:2, <i>11</i> 17: <i>4</i>	pages 3:23	53:11, 18 54:20
123: <i>18</i>	operational 9:9,	21:22 30:18	paid 57:15	56: <i>16</i> , 24 64:6,
obtain 4:12	13 10:16, 17	50:12 88:22	60:17	9, 16 68:23
28:25	Operations 7:14,	95:20 114:6	pairing 46:13	72:17 75:7
<b>OC</b> 16:8 46: <i>19</i> ,	<i>15</i> 51: <i>18</i> , 20	123: <i>10</i>	parallel 25:24	90:6 91: <i>9</i>
22, 24 47:4, 14,	52:1, 5, 22, 24	Ottawa's 7:4	26:19,25 56:21	92:10 94:5
16, 21 50:2, 19,	100: <i>8</i> 108: <i>12</i> ,	11:14 12:7, 13	parameters	99: <i>13</i> 107: <i>5</i> , <i>12</i>
21, 24 51:5, 25	24 109: <i>10</i>	74:19 87:6	105:22	108: <i>10</i> , <i>18</i>
52:6, 12, 17	111:23 112:3,	output 26:15	parcel 18:13	110: <i>12</i> , <i>18</i>
53:15 108:13	12, 22	27:9, 25 28:3,	51:14	111:19 114:6
112:15	operator 7:11	10 44:11, 16, 19,	part 8:15 13:15	partnership
occasion 85:16,	51:6, 13 53:23	24 53:3 62:21	14:25 16:8	58:2, 21 59:2, 4,
20	opinion 24:6	64:7 90:4	17:6 18:73	/ manta 20:0
OCCUF 52:20	opportunities	outside 99:20	19:7, 14, 25	<b>parts</b> 30:9
01.0 occurred 50:15	27.14, 13, 10 57:16		20.2 21.70	00.20 party 36:17
60.7 10 61.24	opportunity 5.8	44.0 overall 35.11	23.14 30.25	58.1 6 50.17
occurring 62.14	39.18 47.1	73·3 0	44.23 $47.12$	78.20 22
65.6 91.7	opposed 36.4	overarching	49.22 50.10 11	nassed 34.23
103.24	55.21 85.22	110 <sup>.</sup> 22	51.7.13.19	passenger 32.20
officer 16:3	122:10	overhead 35:22	52:9 59:25	passengers
18:24	optimal 25:17	overlap 26:20	60:2 65:20	91:18 92:15.17
official 68:12	64:8	56:19 118:22	67:7, 22 70:15	path 17:9 118:9
omissions 23:18	optimize 56:15	overlapping	72:17 73:13	Pattison 98:14
one-page 6:14	76:1 100:7	118:22	76:18 77:4	pause 6:8
onerous 23:19	115:3 116:6	overly 26:20	88:2, 7 89:14	pausing 74:12
Ontario 13:25	119:2 <i>1</i>	oversee 107:21	90:4 91:22	pay 80:1
14:6 16:2 <i>4</i>	optimized 114:2,	111:9	103: <i>14</i> 104:2 <i>1</i>	paying 33:15
17:1, 5, 17, 25	3	overseeing	105:2 107: <i>3</i> , <i>6</i> ,	102: <i>1</i> 2
18:2, 20 19:3, 9	optimizing	107:6 108:5	14 110:23	<b>payment</b> 70:3, 6,
54:20 67:5	100:8 113:21	109:9, 22	115:4 121:7	13, 20 71:5
70:14 75:19	118:17, 25	overseen 121:11	123:23 124:3	72:10
98:4 99:12	119:2 <i>1</i>	oversight 55:21	participants	payments 5/:1/
120:9	<b>option</b> 17:6	57:11 68:2, 6,	1:76 2:5 5:5, 11	65:15, 16, 17
open 92:1, 12	00:10 11:14, 17	21 100:24		09:19 /1:11 72:2 0 02:14
94.27 90.7	03.20 options 19:17	107.2, 9, 72	90.// particular 12.9	13.2, 9 02.14 06:17
onened 9.10	$54.17 \ 62.23 \ 24$	110.20 109.3	21.18 34.5	<b>Poddlo</b> 2.3 4.0
92.17 109.18	65.21 77.5 10	overview 15.13	38.11 41.12	16 113.5 8
111.16	100.10	owner's 13.2	43:15 17 46:12	124.8 10
opening 9:3	order 4:24	16:13 38:16	52:10 53:7.21	penalty 106:11
90:13 95:9	24:1 27:1	64:15 107:19	63:15 67:13	people 38:17
109:20 110:15	40:12, 18 56:22	108: <i>1</i>	69:8, 22 85:12	53:7 66:15
operate 12:13	67:7 73:17	ownership 36:3	86:3 95:3	87:22 98:6, 15
51:22 53:19	91: <i>19</i> 115: <i>18</i>	-	100:2 <i>1</i> 101:2	109:23 110:6
71:6 72:11	ordinary 84:21	< P >	particularly	percent 25:5
93:19 112:6, 14	organization 7:9	<b>p.m</b> 1: <i>1</i> 7 4: <i>1</i>	24:20 30:18	63: <i>10</i>
operated 33:22	original 47:5	74:16, 17 124:21	42:17 101:8	perform 106:2
	originally 119:9		parties 97:1	

neesonsreporting.com 416.413.7755

performance	planning 24:25	potentially	proceeded	51:17 54:12, 17,
26:9, 15 27:9	25:13 30:25	51:23 89:11	11:10 22:25	22 62:10, 17
71:18	31:6, 11, 18, 21,	102: <i>18</i>	23:3 24:7	65:21 75:15
performed 10:10	24 32:22 47:5,	practice 23:7, 8	39:24 41:22	77:24 83:21
performing	12, 22 48:1, 5, 7,	71:6	proceeding	114:23 116:3
110:23	12 49:10 50:11,	pre-approved	67:17	118: <i>13</i> , <i>17</i> , 21
period 38:10	12 53:8 62:11	51:1	proceedings	119: <i>8, 13, 19, 24</i>
44:7 47:23	95:20 107:1	precedent	5:20, 24 125:5	120:7, <i>10</i> , <i>1</i> 3
76:5 77:2, 24	plans 110:8, 22	53:22 69:20	process 11:4	122:2 <i>1</i>
91:17, 19 94:7	111: <i>1</i> 2	75:3	15:2 <i>1</i> 16:8	procurements
106:8 107: <i>10</i>	<b>play</b> 47:14	predetermined	18: <i>4</i> , <i>1</i> 3 20: <i>16</i>	56:18
peripheral 72:18	54:1 57:8 58:9	48:19	21:10, 18, 23	procuring 34:25
Peripherally	62:25 71:17	Preferred 99:6	22:10, 12 25:16,	35: <i>10</i> 36: <i>4</i>
70:21	93:14 94:24	100: <i>16</i> , 24	22 27:11, 14, 17	produce 102:11
perjury 5:25	played 15:14	preliminary	36:8 37:22	produced 3:12,
permits 4:17	players 62:6	49: <i>19</i> , 23 50: <i>18</i>	39:1, 5, 13, 24	18
person 5:21	104:7	114: <i>19</i> , 20	42:9 43:14	producing
perspective 8:4	plenty 23:21	115: <i>5</i> , 23	44:14 47:2, 6	102: <i>10</i> 103:2
55:24 56:1, 10,	24:14 57:22	prematurely	49:14 50:6, 11,	product 42:21
12, 15 57:5	78:1 87:4	85:5	24 51:8, 10, 19	products 100:1
64: <i>1</i> , 2 80: <i>4</i> , 5	<b>plus</b> 51:24	prepare 39:5	53:14 54:24	Professional
82:1 89:8	53:18 55:23	46:20 54:17	57:10 67:4, 7,	6:16 7:3
117:14 122:21	57:13	70:19 94:6	17 70:15 76:11,	professionals
<b>Peter</b> 2:7 59:1,	point 6:7 7:10	109: <i>13</i>	13 77:5 78:1	117:6
11 124:14	8: <i>1</i> 11:8 16:24	prepared 90:5	82:9, 24 83:21	profile 33:18
phase 48:12	17: <i>16</i> 18: <i>4</i> , <i>15</i> ,	109:17 112:3, 9	88:7 92:12	36:8 55:9 56:7
49:23, 24 50:3	19, 22 22:10, 18	prescriptive	93:13 97:19	75:18, 23 76:1
59:25 60:3	24:12 25:7	28:9	99: <i>1</i> 7 101: <i>1</i>	80:25 81: <i>15</i> , 21
70:3 73:10, 12	45: <i>4</i> , 6   47:16	Present 2:10	103: <i>1</i> 104:2 <i>1</i>	84:9 116: <i>13</i>
108: <i>6</i> , <i>9</i> , <i>12</i>	48:20 49:2, 5,	29:12	105:2 106:1, 17	program 7:22
109:3 110: <i>9</i>	17 50:6, 16	presentation	107:18 110:16	10:20 25:9
115:6	52:4 71:17	118:24	111: <i>18</i> 113: <i>16</i> ,	68:3 91:23
physical 8:9	87:5 92:14, 16	presented 35:5,	22, 23 115:5	92:3, 7 103: <i>11</i>
picked 27:9	93: <i>18</i> 108: <i>11</i>	6	116:3 118: <i>13</i> ,	124:6
picture 25:9	109:20 120: <i>11</i>	presenters	17, 19, 21, 25	programs 7:22
59:18	points 64:20	125:9	119: <i>8</i> , <i>19</i> 120: <i>7</i> ,	10: <i>14</i> 52:22
<b>pieces</b> 10:22	71:21 72:1, 3, 5	<b>pretty</b> 9:10	13, 25 121:25	106: <i>12</i>
32:5 82:13	95: <i>4</i> 101:3, 9	prevent 123:24	122:1, 21	progress 27:1
102:3 109:15	portion 8:8	primarily 28:4	processes	68:5, 24
place 5:25	103:21	52:15 61:1	119:13	progressing
32:6, 8, 25	position 8:16	primary 47:14	procure 29:23	74:1
59:19 60:25	24:13 27:8	53:11 54:15	48:21	Project 10:12
61:12 62:8	67:6 85:22	58:14, 17, 18	procured 35:18	11:4, 5, 7, 10, 17,
63:20 69:3	positioned	prime 104:22, 23	procurement	19 12:1, 19
76:21 80:8	78:21, 23	principle 68:11	8:2 10:16	13:1, 4, 10, 22,
83:6, 7 85:8	positive 69:15	prior 8:25 10:5,	15:20 16:3	24 14:5, 8, 9, 12
94:16 106:19,	possible 36:9,	/ 18:9	18:3, 4, 16, 23	15:15, 17 16:10
22 108:17 125:6	13, 14 118:22	problems 33:25	19:6, 7 22:8, 19	17:2, 6, 19 18:6,
places 121:10	post 8:16	procedural 4:23	25:4, 17, 19, 23	25 19:18 20:13
pian 67:22	posted 4:25	procedures	27:3, 8, 16 28:6	21:2, 4, 16, 24
δ9:22, 24 90:3,	<b>potential</b> 62:15		29:27 35:17	23:9, 22 24:24
9 100:0 111:3	03:10 13:0 104:17	proceea 24:78	31.23 39.17	20:3, 12 21:1
119:22	104:77	20:3 27:3 54:7	41:23 44:0	20.14 29.9
planned 119:79		05:22 06:25	40:20 47:8, 15	31:2 33:78
planner 16:3	I	1.00	40:0, 15 49:18	34.5, 14 31.7

29.2 11.1 15.6	properly 27.9	01.00 06.0	quite 22:12	15.5 11 16 20
36.2 44.4 45.0,	μορείτα 27.8	81.23 80.9	quite 22.15	45.5, 14, 10, 20
9 40.20 47.7, 0,	40.9 40.72	00.0 09.24	30.70 40.74	40./0 02.0
7, 13, 10 48:2, 4,	102:5	91:23 92:3	60:74 mus 04:5 44 05	53:20, 25 58:25
8, 14 49:5, 11,	proponent	103:10 114:11	<b>quo</b> 21:5, <i>11</i> , 25	61:5, 18 64:24
16 50:14 52:15	36:21, 23 37:12	puts 44:22	22:1	65:6, 10, 13
53:2, 24 57:5,	57:15 99:6	putting 53:11	_	66:3, 6, 12, 14,
20 58:7, 13	100: <i>16</i> , <i>24</i>	71:24 83:2, 20,	< R >	15 67:2, <i>4</i> , 8, 9,
59:3, 5 60:1, 21	proponents	23	<b>R/F</b> 3:22	12, 16, 17, 18, 24
61:7 63:4 64:4	25:14 37:23	<b>PwC</b> 16: <i>19</i>	<b>RAIL</b> 1:6 4:6	68:22 69:7, <i>11</i> ,
65:1, 15, 22	38:7		7:4, 11, 12, 15,	13, 15, 17, 20, 23
66: <i>16</i> , 25 67:22,	proposal 39:2	< Q >	25 9:2, 4 10:11	70:1 71:8, 9, 16
23 68:24 69:21	86: <i>8</i> , <i>10</i>	qualification	11:15 31:10	72:25 74:2, 6, 9
70:22 72:19	proposing 40:17	106:3	32:4 95:11, 12	75:12   76:4,  19,
74:22 76:2	proprietary 56:3	qualified 7:11	123:10	23, 24 77:9, 13,
79:17, 19, 24	prosecution	43:18 103:2	raise 22:17	18, 19, 23 78:3,
80:4, 6 81:6, 17,	5:25	105:23, 25	91:3 120: <i>12</i>	5, 10, 16 80:23
18 82:3, 6 85:1	prospect 91:3	106:18 110:6	raised 76:20	82:7, 14, 17, 19,
86:20, 24 88:14	provide 6:12	111:7	86:15 91:12	20 83:4, 23
89:12 90:1.4	7:2 55:20 57:10	qualify 34:3	101: <i>14</i>	84:2. 3. 8. 18. 20.
91:24 92:21	provided 16:21	88:3.5 101:25	raising 84:4.15	21 85:11.14.20
93:23 94:1.3	31:16	104:22.24 106:1	ramping 90:19	86:6.10 90:23
96:14 97:1.7.	provider 37:1.6	qualifying	ran 25:24	91:6. 15 92:5.
20 99.5 100.4	39.2 44.2 3	106· <i>17</i>	83.25 84.23	25 95 16 21
14 22 102.6	72.7	quality 36:3	120.14	96·4 10 101·5
103.9 14	providing 18.20	102.2 113.20	ranged 77.10	10 12 110.20
106:10 107:3 7	20.25 34.12	115:3	ranid 90.11	114·16 119·6
13 15 18 108.6	54.21	quantifying 83.2	reach 9.23	receivable 5.22
10, 10, 10, 10, 100.0, 11 110.3 7 13	Province 67.21	quantities 83.10	80.10 01.25	received 6.14
$21 \ 111 \cdot 4 \ 0 \ 10$	68·1 80·22	quarterly 69.5	00.19 01.20 02·18 03·1	25·2
$112 \cdot 1  112 \cdot 11$	Provincial	Queen $116.0$ 15	reached 8/1.11	RECESSED
17 11 1.4 110.11,	66.20 24 67.15	question 5:16	reaching 84.21	71.16
17 114.1, 12, 10, 22 115:10 19	69:19 21 60:10	6:4 12:10	ready 14.27	14.10 rocognizo 6:16
116.6 7 117.1	00.70,27 09.70	0.4 12.70	25.11 28.6	recognizing
7 11 22 110.1	69.21	23.24 50.11	20.14 20.0	51.22
7, 11, 23, 110.1, 2, 120.14, 17	00.21 DECE 20.11	40.75 55.4	49.2 01.3 92.1	J1.22
3 120.14, 17	<b>F3U3</b> 20.11	09.21 10.0 99.10 06.0 0	93.15 109.17	12.10 27.16
121.7, 11	49.2, 0 52.70	$00.12 \ 90.2, 3,$ $22 \ 105.4 \ 10$	<b>Deal</b> 16:4 96:22	13.19 31.10
122.10 123.11,	101.20 109.77	22 103.4, 10	<b>Redi</b> 10.4 00.23	30.22 39.1 45:20 46:46
17,20 DraioatCo 50:2	112.12, 22	100./ 11/.4	1eally 24.2	43.20 40.70
<b>Projectico</b> 58:3,	<b>PUDIIC</b> $4:7, 73,$	questioned	25:10, 11 51:1	84://, /3 90:/3
10 13:14 80:10,	22 5:1, 14 1:10	21:4, <i>13</i>	53:73 55:9	
25 81:27 98:2	89:23	questions 3:13	60:8 79:0	<b>S</b> 20:12, 15
100:7 107:16, 23	<b>pull</b> 101: <i>10</i>	4:17, 18 20:15	100:10 114:18	55:1 123:24
ProjectCo's	purchase 62:24	24:1 28:21	122:25	124:1, 2
82:2 109:16	purpose 4:11	68:25 74:20	reason 35:19	record 124:18
projected	64:15 73:1,8	83:12 84:4, 15	104:9 105:4	recorded 125:10
114:14 119:9	purposes 40:19	86:15 103:18	reasonable 22:9	recording 6:9
projections	Pursuant 5:14	113:6, 8 120:12	33:20 117:7	records 122:3
48:11	<b>push</b> 58:6	124:9, 13, 17	reasons 27:13	red 101:11
projects 10:7	101:9	questions/reques	81: <i>19</i>	red-flagged 40:1
15:5 16:16	put 9:24 34:5	ts 3:22	recall 9:8 11:1	refer 59:5, 9
49:8 69:21	35:24 41:6	quick 56:23	20:24 27:4	reference 15:1
75:3, 6, 8 111:18	46:10 49:2	quickly 22:11	29: <i>8</i> , <i>20</i> 31: <i>12</i> ,	41:7
project-specific	62:8 63:3	55:25 56:23	20 34:6 39:14	referred 93:9
28:10	64:10 67:3	81: <i>1</i> , <i>1</i> 2	42:2, 12, 25	
proper 94:6	74:3 77:4	I	43: <i>14</i> , 21 44:5	

referring 32.11	55.1 58.10 20	roquiromont	DEGUMED 74.17	rieke 103.20
25.2 / 69.10	55.4 50.70, 20 61.9 24 62.10	66.21 67.2	retain 122.0	106.7
55.2, 4 00.70, 15 02:12	01.0, 24 02.19	00.24 07.3 117.9 <i>4</i>	retained 26:10	100.7
10 92.13	03.2, 12, 13		retained 30.19	
refine 115:25	64:19 66:11	requirements	retired 60:76, 78	ROD 98:14
refined 114:20	68:8 72:10	10:15 25:9	review 5:9	role 7:24, 25
115:2, 2 <i>1</i>	73:22, 25 75:5	28:8 30:21	11:21 76:12	10:11 15:13, 16
116:25 117:2 <i>1</i>	77:15, 20 78:8	31:2   32: <i>1</i> , <i>8</i> , <i>10</i> ,	88:6 104:3	20:14 47:14
refinement	82:25 83:11	<i>11, 12, 19</i> 41:25	<b>reviewed</b> 21: <i>6</i> ,	53:11 54:21
117: <i>13</i>	84:13 85:19	43:19 52:24	7, 8 75:8 105: <i>1</i>	58:9 96:13
refinements	86:2 90:22	71: <i>12, 19</i> 88: <i>4</i>	107:23	107:8 122:7
117: <i>10</i>	93:6 94:8, <i>10</i> ,	94: <i>1</i> , 20 95:5	reviewers 111:2	roles 10:9
refining 118:20	12 95:2, 6, 7	96:5, 7, 9 105:6	reviewing 20:14	16:22 17:25
REFUSALS 3:21	96: <i>19</i> , 22	106: <i>4</i>	23:9 107:17	54: <i>6</i> , <i>13</i> 108: <i>1</i>
refused 3:13, 22	104:13, 16	requiring 45:11	reviews 23:17	rolling 45:2
regard 12:18	105: <i>10</i> , <i>13</i>	research 12:20	37:9	room 23:11
regardless	111: <i>11</i> 119: <i>11</i>	13:2, 9 33:16	Reynolds 2:8	98:6
108:10	120:4 122:15	109:13	<b>RFP</b> 35:6 39:4.	round-trip 32:21
<b>regime</b> 71:25	remotely 1:16	resources	12 43:19 76:13	<b>RPR</b> 125:3.23
72:20	repeat 73:4 7	108:15 117:20	78:7.9 83:21	<b>RTG</b> 37:6
regionally 80.20	105.8	respect 24.21	97.20 21	38.21 23 39.5
regular 37.24	replacing 72.6	27.20 34.13	101.20 102.6	46.2 52.17 23
68·22 69·2	90.23	41.25 42.5 17	103.25 104.2	55:16 58:17
regulation 32.25	report 31.13	43:11 50:18	105:20 104:2 105:2 22 106: <i>1</i>	50.70 50.77
regulations	51.15 51.19 25	$-5.11 \ 50.10$	5 15 17 10	79.22 24 70.10
10.21 61.9 12	70.25 120.19	52.11 54.5 60:22 62:24	100.11 $112.12$	10.22, 24 19.10 20.21 26.0
10.27  04.0, 13	10.20 120.10	00.23 $03.24$	109.11 $112.12$ ,	$00.21 \ 00.9$
65.9 109.9, 73	<b>reported</b> 15.77,	05.14 10.2	22 117.22	09.2, 0, 10, 21
rejected 88:75	18 19:15, 16	72:10 74:25	118:7, 6 123:76,	97:11 100:23,
related 10:2	20:3 Demonstran (105-1	89:22 97:6	17 DEO 05-5	24 101:16, 21
12:21 43:13	Reporter 125:4	110:22 118:12	RFQ 35:5	102:8, 19, 24
relates 7:3	REPORTER'S	respond 52:23	RFQ/RFP 104:21	104:21 109:11
relationship	125:1	56:22 79: <i>4</i> , 5	ridership 47:10	118:9 123:19
58:16 59:8	reporting 31:22	81: <i>1</i> , <i>2</i> , <i>12</i>	48: <i>10</i> 112: <i>18</i>	<b>RTG's</b> 37:1, 16
102: <i>19</i>	52:21 69: <i>9</i> , 13,	response 76:6	<b>rights</b> 60:22	39:2 59:24
reliability 9:23	14	responsibilities	61: <i>19</i>	77:13, 20 88:3
92:18 94:18	reports 17:14	104: <i>18</i> 105: <i>19</i>	rigorous 121:8	89:4 102: <i>14</i>
112: <i>18</i>	68:23	responsibility	<b>ring</b> 41:8	117: <i>14</i> 124:5
reliable 94:21	representation	15: <i>19</i> 35:24	<b>rings</b> 41:9	<b>RTM</b> 102: <i>16</i> , <i>19</i>
reliance 70:23	16:2, 4 98:22	45:24 46:3	<b>risk</b> 33: <i>15</i> , <i>18</i> ,	103:2 <i>1</i> 104: <i>19</i>
relied 28:4	99:2	52:23 89:5, 16	19 36:6, 8, 13,	105:2 <i>0</i>
29:5, 15 62:1, 6	representative	101:23 102:3,	14, 17, 18, 19, 20,	rule 23:13
64: <i>6</i> , <i>9</i> , <i>11</i>	107: <i>19</i> , <i>20</i>	24 103: <i>10</i>	22, 23 45:11	rules 10:20
75:10 94:5, 22	representatives	109: <i>12</i>	55:9 74:19, 21	109: <i>9</i>
99:17 117:5	54:19 98:17	responsible	75:2, 14, 16, 22	<b>run</b> 12:2 <i>4</i>
rely 64:17	represented	7:13, 14, 19, 21	76:1, 8, 25	29:10 30:4
117:3	46:13	8:2 9:17 10:13	77:11, 12, 14	42:22 43:5
relying 65:7	representing	20:1,2 45:2	78:19, 20, 21, 23	91:18 99:16
remained 76:2	50:12	56:13 89:18	79:7, 13, 15, 18	running 30:2, 6,
remediating	require 67:21	107:6, 15	80:9, 15, 25	8, 13, 19 56:18
80:1	102:1	109:22 110:13	81:15, 16, 21	83:1 92:14.15
remember 16:6	required 6:2	responsibly	83:3. 5. 6. 8. 9.	93:10. 16. 17
9 17:13 24:9	19:23 40:12	115: <i>15</i>	15. 18 84:19	94:1.7 95:4.9
29:14 30:15	52:12 61:20	result 77:1	87:14.19 88·14	15 96:2.8
32:7 34.19	64:1 104.22	114:9	18.23 89.6 12	runs 35.21
37.21 43.3	5 IO.1.22	resulted 100.4	15 21 105 18	rushed 22.11 10
44:1, 4 53:13			116:7, 13	

neesonsreporting.com 416.413.7755

	37.1 16 38.7	sign 14:12	speak 12.5	Stago 7:1 0:1
- 5 -	13·12 18·0	$\begin{array}{c} \mathbf{Sign}  14.72 \\ 03 \cdot 14  04 \cdot 24 \end{array}$	23.11 18 16.18	10.6 11.6 11
< 3 >	43.12 40.9 51·1 67·1	93.74 94.24 signed 67:10	23.11, 10 40.10	10.0 11.0, 14
Sale 92.19,23	100.16 22	06:16	50.7 50.5 62.22 69.7	15.25 14.1,4 15:6 0 14
94.21 Safaty 64:1.9	100.70,23	90.70 cianing 92.12	03.23 00.7	13.0, 9, 14 21.19 25.12
Salely 04.1, 0 02.4  04.17	00.20	Signing 02.75	00.7 110.70	24.10 20.13
93.4 94.77	90.20 sonso 20.22	93.3 cimilar 16:16	110.24 117.9 cpooking 9:12	21.23 20.11
109.14	Selise 20.22	Sillidi 10.70	Speaking 0.12	29.21 30.23
Sake 21.20	22.7, 12, 10, 22	$30.79 \ 33.22$	00.27 100.74	31.0, 11, 12, 19
	23:2 30:3	simple 19:73	<b>Specific</b> 23:76	33:8 35:5, 0 47:40 40:5 6
2:11 125:3, 23	33:21 35:23	SIMPLY 48:20	24:9 26:7, 17	47:12 48:5, 6,
sat 98:7	39:7 79:73	50:75 85:24	28:13, 18 39:11	16 49:10, 15
satisfied 104:4	117:25 118:20	118:77 122:2 single 55:44	54:7 59:3 61:9	50:23 62:70,77
satisfying 20:16	121:24 122:19	single 55:11	68:75 82:20	14:19 97:20, 21
sauce 56:2	separate 44:2	56:72 95:79	84:74 96:6	109:6 123:10
save 27:14	56:78	Singleton 2:7	110:22 111:77	stages 93:16
113:19 117:15	separately	sinkhole 79:25	124:1	110:3
savings 11/:11,	35:18 36:5	80:2, 11, 16, 21	specifically	stand 13:20
13, 17	sequentially	81:8	27:19 28:17	104:9
schedule 22:23	56:20	sitting 57:14	34:7 37:21	standard 68:1
25:10 27:15	service 52:13	111:15 121:18	61:14 63:18, 23	91:25 92:11, 18
55:24 56:10, 12,	89:23 90:2, <i>10</i> ,	situation 81:20	68:8 74:7, 9	93:20 107:18
15 71:22 81:7,	19, 20 112:17, 18	<b>skill</b> 99: <i>19</i>	75:6 76:19	113: <i>16</i>
10 106:9	service-proven	<b>skin</b> 55: <i>14</i>	82:15, 18 85:19	standards
113: <i>18</i> , <i>21</i>	33:7, 12, 13	slightly 25:25	86:6 93:7	63:25 64: <i>8</i> , 2 <i>0</i> ,
114:2 116: <i>1</i> , 25	34:3, 10, 18	slow 32:14	specification	25 65: <i>4</i> , 5, 9, 12
117:3, 10, 12, 15,	40:3 89:9	small 24:10	23:19 28:3	93:4   94: <i>18</i> , 23,
22	set 21:2 37:22	smoothly 95:8	specifications	25 105:3
schedulers	71:18 92:10, 20	101: <i>1</i>	11:20, 23 12:25	106:13 107:24
111: <i>1</i> 115:24	94:18, 23	<b>snow</b> 30:10	14:20 21:6	121:8
schedules	110: <i>18</i> 118:6	<b>soft</b> 90:17, 21	26:9, 16 27:25	standing 43:1
115:25 117:8	125:6	91:3, 10, 14	28:6, 10, 13	84:2 <i>1</i>
schedule-wise	setting 105:22	soils 8:10	43:20 44:11, 16,	stands 41:3
56:25	shallow 116:15	solemn 4:12	20, 25 53:3	45:20 101:7
scheduling 80:4	shallowed 116:9	<b>solid</b> 38:3, 6	62:22 64:7	start 45:2
81:3 82: <i>1</i>	Shallower	somebody 59:13	90:5 94:6, 9, 13	87:12 89:23
110: <i>1</i> 7 115:2 <i>1</i> ,	116: <i>19</i>	sorry 8:23 10:8	specifics 61:25	90: <i>10</i> , <i>17</i> , <i>21</i> , <i>25</i>
22 117: <i>4</i> , 6	shapes 57:13	30: <i>16</i> 31:8	67:25 73:22	91: <i>4</i> , <i>10</i> , <i>14</i>
118: <i>5</i> , 7 120: <i>1</i>	share 61:16	40:14 46:5	76:23 85:15	93: <i>10</i>
scheme 73:3	shared 5:4, 10	48:23 59:20	92:6 96:19	started 6:11
Schepers 31:23	<b>shave</b> 119: <i>18</i> ,	64:23 73:4	117:2	7:7 18:20 25:3
<b>Science</b> 8:5, 6	25	97:12 121:2	spectrum 38:15	49: <i>5, 18</i> 108: <i>18</i>
scope 18:1	shifting 116:8	sort 26:15 41:6	speculating	starters 83:3
scrub 23:17	<b>shoes</b> 59:24	46:14 58:20	50:15	starting 19:6
secret 56:2	short-cut 102:15	59:17 67:22	<b>speed</b> 32:8, 10,	74:12 90:18
section 5:14	shorter 116:19	68:11 74:3	12, 18, 23 33:2, 5	start-up 90:3, 9
6:2, 4	Shorthand	79:7 93:10	speeds 30:21	statements
Segal 2:7	125: <i>4</i> , <i>13</i>	108: <i>14</i> 109:2 <i>1</i> ,	spent 12:3	125:8
select 37:14	showing 6:13	24 117:22 124:7	82:21	States 30:9
selected 13:13,	side 23:15	sought 61:17	spoke 8:20	station 62:24
18 31:15 43:22	31:24 46:12	soundings 29:3	spoken 44:11,	stations 49:12
64:3 82:5	86:15 89:8	<b>sounds</b> 60: <i>19</i>	17 88:15	112:19 116:19
selecting 25:16	95:14	source 112:23	spot 74:8	status 21:5, 11,
66:12 77:13	Siemens 13:20.	south 9:7	stability 46:1	25 22:1
selection 25:18	21 43:25 44:2	space 45:11	staff 47:17	stay 52:5
35:1, 17 36:25		•	48:25 98:21	stays 87:1

<b>Steering</b> 19: <i>16</i> ,	submissions	45:8, 18 47:10	<i>15</i> 108:23	95: <i>10</i> 96: <i>3</i>
19, 21 20:5, 8,	107: <i>17</i> , 22	48:10 49:13	109:23 111:7	115: <i>8</i> , <i>12</i>
11, 14 43:7	submit 76:13	51: <i>13</i> , 22 52: <i>3</i> ,	113:24 115:25	things 8:10, 13
46:23 50:22.25	104: <i>1</i>	6. 13. 25 54:1	teams 38:3	22:11. 19. 25
55:2 61:3	submitted	60:13 62:12 16	77:19 83:6.7	23:2 39:19
64.22 65.2	41.21 103.25	22 63:5 7 11	88.3 94.23	46.10 47.11
66·1 67·20	submitting	17 71.17 21	97.24 104.1 2	56.21 57.17
70.17 71.1	106·18	72.1 87.5 12	9 12 106.17	60.9 63.23
72.22 23 84.1	subs 80.18	89.24 90.9 12	technical 8:11	81.13 82.16
21 08.0	Subsequently	17 25 01.18	20.10 12 11.10	01.70 02.70
Stonographor/Tra	7.17  8.14	02.11 12 17	29.10, 12 41.19 12:10 70:1	118.22 21
stenographen/ma	1.17 0.14 substance 40:21	92.11, 13, 17 02.2 14 17 19	42.19 19.1	thinking 16.0
	substance 40.27	93.3, 14, 17, 10	03.0 123.9	70.22 00.24
Z. / /		94.21,20 90.19		19.23 99.24
stenographically	100.7, 9	101.75 100.25	44.12 Taskaisan 0:40	
125:10	successful	109:17 110:14	Technician 2:12	third 58:1, 5
step 47:8	13:16 33:24	111:3 112:6, 13	technology	59:16
59:24 /3:1/	successfully	systems 44:1, 3	31:13, 14, 15	thorough 22:9
step-in 60:21	33:22	48:18 53:19, 21	32:24 49:13	23:1
61: <i>19</i>	sufficient 22:20	64:2 90:13	template 13:25	thoroughly
stepped 48:13	108: <i>15</i>	95:10, 11, 12, 17	18:5 69: <i>8</i>	22:13
stepping 36:10	sufficiently	109: <i>15</i>	tend 5:18,19	thought 22:5
sticking 101:2	22:14		57:1, 8, 10	99:23
sticks 39:23	suggest 59:13	<t></t>	tends 55:23, 25	threshold 34:2
sticky 95:3	123: <i>13</i> 124:2	table 24:15	term 111:24, 25	72:3
101:8	suggestion	57:14 64:17	terms 10:18	throat 55:12
stone 85:4	124:7	99: <i>16, 19</i> 105:25	17:5 27:2 31:2	tie 63:8
stopped 11:8	suitable 87:9	takes 57:20	32:25 33:14	tighten 119:7
storage 86:12	summary 113:1	117: <i>1</i> 8	34:9, 17 36:3	tightening
88:13	supervision	Talia 2:12	37:20 40:2, 22	119: <i>4</i> , <i>12</i>
streamline 120:7	7:12 9:18	talk 64:2	47:9 51:1 52:1.	time 4:17 7:10
streamlining	supplemented	talking 28:20	16.24 55:14.17	8:18 10:4 13:3
116.3 118.13 16	16 <sup>.</sup> <i>1</i> 2	30.17.22 49.21	57.21 75.11 18	22.4 9 16 20
<b>Street</b> 116.9.15	supplementing	74.23 97.14	21 81.15 82.5	24 24.5 29.13
stress-tested	16·7	105 13 15 17	10 83:5 88:3	31.25 39.10 22
86.25	supplier 13.12	115.8 12	89.21 94.17	44.6 45.6 9
stronger 122.6	15 18 43 15 17	target 118.6	95.14 102.2 22	48.24 50.6 16
strongly 85.7	supply 43.22	team $A:10$	103.2 104.15	57:25 60:20
structure 10:15	88.20 80.3 11	11.21  13.4  10	105:23 106:7	62.0 71.3 7
20.1 2 12.10	support 16:18	15.23 16.1 12	100.20 100.7, 11 20 108·5	71.11 78.2
23 43.5 55.2	10 52.24 85.22	17.8 10.7	109.11 112.10	82.22 01.10
20 40.0 00.2 109. <i>1</i>	$19 \ 32.24 \ 03.22$	20.12 22.19	109.77 115.79	101.2 109.21
structured 103.2	supposed 11.3	20.73 25.70	114.4 110.2, 0 118:18 110:2 <i>1</i>	110.0 111.12
studios 9.7 0	72.11 107.16	24.24 55.17	25 100.70 119.24,	110.9 111.72
study 30:2 1/	112.14	54:10 24 61:10	20 122.7 124.0	112.4 113.9, 10
51.14 65.20	112.79 curprised 60:14	54.79, 24 $01.70,$	22:47	110.10,20
01.74 00.20	Surprised $00.14$	11 02.0, 7	55.17 tooting 10:1	110.70 119.2, 0,
	swap 59.70,23	04.12 10.0, 12,		20 120.12
103.21 103.14	SWILCH-OVER	24 12.10 15.0, 10 76.15 05.6	30.3 31.23 02.2 7 02.40	120.0, 9 timed 90.0
	90.10 Sustem 7.5 40		92.3, / 93.70	
104.79 105.20	<b>System</b> 7:5, 12	01:1, 2, 22 88:5,	1 naies 43:72	
supcontracting	9:2, 22 10:17,	9 94:16 98:3, 4,	44:8 45:8	116:4
102:16	19 11:15 26:10	5, 22 99:3	46:73 101:17	timely 27:1
subject 86:3	32:12, 13, 24	101:25 102:2	tning 43:6	times 21:4
submission	35:11, 23 36:1	103:2, 10 104:5,	49:22 68:15	32:21 95:22, 24
44:22 103:25	42:11 43:13, 15,	22, 23 105:23	72:8 86:19	96:12
	17, 22 44:8, 20	106: <i>18</i> 107: <i>5</i> , <sup> </sup>		timing 39:16

today 4:8	95:19 99:13	types 8:13	University 8:6	VERITEXT
123:14 124:17	107:5, 12	12:22 31:14	unknown 79:4	125:22
today's 4:11	108: <i>10</i> , <i>18</i>	57:17 63:22	<b>unproven</b> 46: <i>14</i>	versus 41:16
top 30:21	110: <i>12</i> , <i>17</i>	73:20 81:13	unqualified 88:9	<b>vetted</b> 98:10
32:23 33:2	111: <i>19</i> 123: <i>11</i>	82: <i>16</i> 111:8	<b>unusual</b> 95:25	103: <i>1</i>
topic 96:4	transitway 90:24	typical 67:6	updates 68:24	vetting-in 91:17
topics 69:18	transparent	typically 120:20	Urquhart 2:7	92:7, 12
76:17 101:3	120:25	typos 5:9	uses 120:20	viable 17:7
123:12	Transpo 16:8	<i>,</i> ,		Videoconferenci
Toronto 7:18	46:19.22.24	< U >	< V >	<b>na</b> 1:15
8:20	47:4. 16. 21	U/T 3:18	vague 37:18	<b>view</b> 24:6.8
track 60.8 68.4	50.21 24 51.5	ultimate 45.25	valuable 28:3	29.22 39.23
tracked 72.2	25 52.6 12 17	72.6 89.18	value 18.16	54.2 58.5 18
tracking 110.17	53.15 108.13	ultimately 7.13	21.20 21 22.2	78.22 85.7
tracks 35.21	112.15	13.2/ 1/.5	6 23.16 21.1	86:1 95:13
36.1	transportation	18.2 7 10.8 21	83.2 5 102.12	117.22
traditional 56.17		20.16 24.2	112.11 14 15	Virtual 2.12
Traigneneules	0.7	20.70 24.3	10 21 24	Virtual $2.72$
	Transpo's 47.14	30.14 30.23	19, 21, 24	Vitale 3.4 0.24
98:10	50:2, 20	40:6 42:21	114:73 115:9,	VIVI 31:22
train 35:21, 22,	Treasurer 63:20,	55:3 59:16	13 117:1	vogel 2:8
25 43:13	21	67:19 70:25	118:14 120:1	volumes 32:20
trained 87:3	trial 5:23 92:14	72:20 74:8	value-	<b>vote</b> 20:20
training 10:19	93:9 94:1,6	86:9 93:2, 14	engineered	
47:17 52:21	95: <i>4</i> , <i>9</i> , <i>15</i> 96:2,	119: <i>9</i>	27:13	< W >
109: <i>10</i>	8	uncommon	various 7:18	waiver 42:4, 7,
trains 9:20, 21	trigger 123:1	95: <i>10</i>	17: <i>13</i> , 25 18: <i>16</i>	18
12:2, 7, 13, 18	triggered 61:21	understand	37:25 54:6, 18	waivers 41:25
30:19 32:14	Trillium 7:20	12: <i>10</i> , <i>14</i> 13:23	57:13	42:13, 16
52:2 90:24	trucks 80:21, 22	30:20 33:6, 12	vehicle 10:16	walk 102:14
transcribed	true 23:14	34:24 35:9	13: <i>12, 15, 17</i>	wallet 80:19
4:20 125:11	125: <i>1</i> 2	36:12 38:19	27:24 28:6, 14	wanted 26:1
transcript 4:21.	trving 9:5	40:15.16 44:16	29:11.17 30:2	40:4 80:24
25 5:3. 9. 10. 13	10:21 16:6.20	47:24 72:25	31:9 32:1 33:2.	81:24 83:25
125:13	17:13 24:4	73:8 103:17	3. 7. 20. 21. 24	85:3.5 91: <i>4</i>
transfer 36:13.	29:13 37:8.18	105: <i>11</i>	34:25 35:1.5	118:1 120:22.24
23 74:19.21	41:2 53:12	Understanding	16. 18 36:25	wanting 46:9
75.2.14.16.22	55.21 59.12	17.24 23.24	37.1.6.10.13	89.8
76.8 80.9	86.4 90.22	32.16 36.25	14 16 39.2	Wardle 2.7
81.15 84.5	98.14 19 101.6	40.4 11 41.5	40.3 7 12 23	59.1 11 124.12
90.11 116.7 13	119.11 13	56.9 71.5	41.6 7 17 20	14
transferred	122.14	76.22 80.20	42.1 45.7 48.9	wasting 119.2
81·17 80·6 16	tunnel 81.16	83.8 00.8	80·0	watches 122.2
transforring	116·0 10 13 15	02.22 06.12	vohiclos 7.22	watching 121.18
80.21	tunnolling 8:12	92.23 90.73 117.8 115.0	10.10 12.22 22	wave 101.21.70
09.21 Transit 1.6 7.5	$\frac{1}{75\cdot7} = \frac{1}{70\cdot7} = 0.75$	Inderstood	10.19 12.22, 23	ways 101.24
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	13.7 19.7,0		24.21 21.20, 23	website 50.70
0, 10 0.10 9.2	Turning 04:46	00.17 09:21	20.11,20 29:1,	website 5.7
11.10 10:13	1 urning 24:10		4, 0, 20, 30.3, 0,	weeks 93.19
20:0 20:1, 4	30.24 09.19		0 31.10 34.9	weigned 55:5
29:5, 16 30:6	86:7 96:1	undertaken	35:10, 25 38:10	66:72
34:8, 16 48:25	106:23	3:11 113:14	41:14 42:17	well-defined
50:13 53:10, 18	turnover 91:1		44:9 62:25	42:10
54:20 64:5, 9,	turns 60:14	3:16	86:8, 11, 16, 20,	well-known
16 72:16 75:7	tweaks 100:19	underway 47:13	21 87:3, 15, 23,	29:19 30:11
90: <i>6</i> , <i>12</i> 91: <i>9</i>	<b>type</b> 31: <i>9</i> , <i>15</i>	<b>United</b> 30:9	24 88:13, 21, 23	well-structured
92:10 94:5	49: <i>12</i>		93: <i>16</i> 106:24	42:9

neesonsreporting.com 416.413.7755

whatsoever				
60 <sup>.</sup> 17	< Y >			
whool-roil 25:20	<b>Voch</b> $10.2$ <i>1</i>			
winter 30:7, 10	23:3 32:3			
wires 35:22	34:24 49:4			
withhold 73:17	73:24 80:7			
witness 5:15.	110:25 112:8			
18 21 124.13	115.13 110.21			
	100.10 110.27			
withesses 59.4				
wondering	120:4			
46:11	years 7:7			
<b>won't</b> 119: <i>16</i>	89: <i>19</i> 103: <i>1</i> 2			
word 27:6 59:2	108:22 110:2			
words 21:5				
26:9 32:13	< Z >			
35.17 21 42.21	<b>Zoom</b> 1.15			
55.91 119.5				
00.24 112.0				
<b>WORK</b> 7:3 8:20,				
25 9: <i>1</i> 11: <i>13</i> ,				
14, 25   12:6, 12,				
17 14:19 15:5,				
14, 24 18:1				
19.3.9.23.13				
24.17 20 26.14				
24.17, 20 20.14, 25 27.5 7 21				
20 21.0, 7, 21,				
22 28:23 29:5				
31:18 34:8				
46: <i>19</i> 51: <i>1</i>				
52:9, 18 53:9,				
22 54:14, 17				
60:17 70:19				
71.23 75.24				
81.10 102.17				
102.17				
103.76 105.72				
109:12 112:19				
113:12 114:10				
116:2 118: <i>8</i> , <i>14</i>				
120:7 123:14				
124:3				
worked 7:8.17				
16.16 42.11				
70.11				
10.14				
87:16,20				
working 15:23				
18: <i>10</i> , 24 49: <i>1</i>				
60:20 61:7				
83:13 89:25				
works 74.13				
world 12.21				
WUILL 12.21				
29:4, 17 30:1				
95:12				
written 110:21				
wrote 120:17				