Ottawa Light Rail Commission

Brian Dwyer on Tuesday, May 17, 2022



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5	OTTAWA LIGHT RAIL COMMISSION
6	STV - BRIAN DWYER
7	MAY 17, 2022
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14	Held via Zoom Videoconferencing, with all
15	participants attending remotely, on the 17th day of
16	May, 2022, 9:00 a.m. to 12:00 p.m.
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1	COMMISSION COUNSEL:
2	Mark Coombes, Litigation Counsel Member
3	Fraser Harland, Litigation Counsel Member
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5	PARTICIPANTS:
6	Brian Dwyer: STV
7	Michael O'Brien: Tyr LLP
8	
9	Also Present:
10	Deana Santedicola, Stenographer/Transcriptionist
11	Felix Griffith, Virtual Technician
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3	NO. DESCRIPTION PAGE/LINE NO.
4	1 Curriculum Vitae of Brian
5	Dwyer15/9
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10	* * The following is a list of documents undertaken
11	to be produced, items to be followed up on, or
12	questions refused * *
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15	INDEX OF UNDERTAKINGS
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17	The documents to be produced are noted by U/T and
18	appear on the following page/line: [None]
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20	INDEX OF REFUSALS
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22	appear on the following pages: [None]
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1 -- Upon commencing at 9:04 a.m. 2 3 BRIAN DWYER; AFFIRMED. 4 MARK COOMBES: Thank you, Mr. Dwyer, 5 for attending today. 6 Before we start, I am just going to 7 read an introduction that we read before every 8 interview. 9 It reads as follows: 10 The purpose of today's interview is to 11 obtain your evidence under oath or solemn 12 declaration for use at the Commission's public 13 hearings. 14 This will be a collaborative interview 15 such that my co-counsel, Mr. Harland, may intervene 16 to ask certain questions. If time permits, your 17 counsel may also ask follow-up questions at the end 18 of this interview. 19 This interview is being transcribed, 20 and the Commission intends to enter this transcript 21 into evidence at the Commission's public hearings 22 either at the hearings or by way of procedural 23 order before the hearings commence. 24 The transcript will be posted to the 25 Commission's public website, along with any

¹ corrections made to it, after it is entered into ² evidence. This transcript, along with any ³ corrections later made to it, will be shared with ⁴ the Commission's participants and their Counsel on ⁵ a confidential basis before being entered into ⁶ evidence.

You will be given the opportunity to
 review your transcript and correct any typos or
 other errors before the transcript is shared with
 the participants or entered into evidence. Any
 non-typographical corrections made will be appended
 to the transcript.

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

1 As required by section 33(7) of that 2 Act, you are hereby advised that you have the right 3 to object to answer any question under Section 5 of 4 the Canada Evidence Act. 5 Any questions at the outset from either 6 yourself or your Counsel, Mr. O'Brien? 7 BRIAN DWYER: I don't think so, sir, 8 thank you. 9 MARK COOMBES: So thank you, Mr. Dwyer, 10 for attending today. I think at the outset it 11 might be helpful if I pull up your CV. Your 12 Counsel has shared a copy of your resumé with us, 13 and I am just going to put it on the screen and ask 14 you a few questions about it. 15 BRIAN DWYER: Certainly. Folks, my 16 apologies, my headphones don't seem to be working 17 this morning, so I'll occasionally mute myself when 18 you folks are talking. I just live not too far 19 from the train tracks and I don't want to disturb 20 everybody, so pardon me. 21 MARK COOMBES: Thank you, sir. Just 22 give me one moment to pull up the resumé your 23 Counsel just sent me. 24 Sure, no worries. BRIAN DWYER: 25 MARK COOMBES: All right, Mr. Dwyer,

1 can you see the document that I have shared with 2 vou? 3 BRIAN DWYER: Honestly, sir, not real 4 I don't see too well. If you can blow it up well. 5 a bit. I have seen it plenty. I can probably tell 6 you -- that is more than enough, thank you. 7 MARK COOMBES: Okay, and can you 8 identify that document for me? 9 BRIAN DWYER: That document is a 10 redacted version of my personal resumé. 11 MARK COOMBES: Thank you, Mr. Dwyer. 12 And could I just have your counsel confirm that the 13 redactions in this document relate only to 14 personally identifying or other irrelevant 15 personal, non-professional information? 16 MICHAEL O'BRIEN: That's correct. 17 MARK COOMBES: Thank you, Mr. O'Brien. 18 So, Mr. Dwyer, I am going to ask you about your 19 experience, but with specific reference to the 20 Ottawa LRT project. 21 Can you just advise me when you began 22 to be involved with the Ottawa LRT project and when 23 your involvement ended? 24 BRIAN DWYER: My involvement with the 25 project commenced in November of 2011 and my

1	involvement with the project ended in July of 2018.
2	MARK COOMBES: And I notice that on
3	your CV it indicates that you were with
4	BRIAN DWYER: My apologies, 2019.
5	MARK COOMBES: So just to clarify, your
6	involvement with the project ended in July 2019?
7	BRIAN DWYER: Correct. My apologies,
8	sir.
9	MARK COOMBES: No problem. And I note
10	that your employment with STV, as listed on your
11	resumé, appears to be from November 2011 until July
12	2019. So is it correct that you were only involved
13	with the Ottawa LRT project as an employee of STV?
14	BRIAN DWYER: I was only involved in
15	the Ottawa project when I was an STV employee. I
16	want to make sure I answer that question correctly,
17	Mr. Coombes. It was not my only project while I
18	was employed at STV.
19	MARK COOMBES: Okay, I understand your
20	clarification. So in other words, you didn't have
21	any involvement with the Ottawa LRT project other
22	than as an STV employee?
23	BRIAN DWYER: Correct.
24	MARK COOMBES: Thank you for
25	clarifying.

1	So I am just going to highlight a
2	couple of points in the STV description on your CV
3	that is specifically pertaining to the Ottawa LRT
4	project.
5	It seems that you may have been
6	involved in a couple different capacities. One is
7	as Project Manager with OC Transpo Ottawa, the
8	Project Manager on several management consulting
9	contracts and then the other is as Subject Matter
10	Expert/Coordinator on several large design build
11	projects, including the Ottawa Light Rail
12	implementation.
13	Is that correct?
14	BRIAN DWYER: My role in Ottawa was not
15	project management, per se. I would say that falls
16	more under the realm of subject matter expertise.
17	MARK COOMBES: Okay. And just to touch
18	briefly on your other experience, could you just
19	give me an overview of your career as it pertains
20	to the transit industry?
21	BRIAN DWYER: Are you focussed, Mr.
22	Coombes, on my time at the MBTA or beyond that as
23	well?
24	MARK COOMBES: Maybe you can just give
25	me an overview of your involvement in the rail

1	industry, how about that?
2	BRIAN DWYER: Sure. So my involvement
3	in the rail industry started in July of 1988 when I
4	was hired by the MBTA. I started out as a
5	part-time collector/guard. So the collector's
6	position, you are providing tokens to customers as
7	they enter the station and a guard's position was a
8	position on the trains, operating the doors.
9	I then worked my way up as a part-time
10	employee, as a yard motor person, as a road motor
11	person, became a full-time employee in July of
12	July of 1991, worked in the Office for
13	Transportation Access.
14	And, Mr. Coombes, I should say I'll
15	speak at a high level about what I have done. If
16	you would like me to kind of dive into any of the
17	details, you can interrupt me.
18	MARK COOMBES: Okay, I will let you
19	know, thank you, but please continue.
20	BRIAN DWYER: Yes. So after leaving
21	the Office for Transportation Access, I believe I
22	was a I worked in subway operations as an
23	operations analyst, then became the Superintendent
24	of Training. I had some education pardon me,
25	some education in education. I did that

1	position I performed that position for about a
2	year. That was in charge of all vehicle
3	maintenance and operations training for subway
4	operations which covered the heavy rail lines and
5	light rail lines at the MBTA.
6	I then became a Light Rail Supervisor,
7	and I worked in that position for about two years,
8	took a promotion to become the Superintendent of
9	the Red Line, which is a line I had started on and
10	I was in charge of operations on the Red Line. I
11	went back to Light Rail in 2001 I believe it was,
12	and became the Chief of Light Rail, which covered
13	both operations and vehicle maintenance.
14	I went to the I was promoted to
15	Deputy Director of Subway Ops I believe in 2006 or
16	so. Without looking at my resumé, I can't tell you
17	specifically. I was in charge of operations and
18	vehicle pardon me, I was not I was the number
19	two person in subway operations, so that covered,
20	again, operations and vehicle maintenance.
21	I became the Head of Safety for about a
22	year between 2009 and 2010. Towards the end of
23	that tenure in Safety, we had a new CEO come in.
24	He had asked me to go back to operations, so they
25	created a position of Director of Light Rail

Operations. And for a couple of months, as we want and for a replacement in safety, I actually functioned in both positions, and then I think about the last year of my career, I was in character of light rail operations and that I left the	y for rge
³ looking for a replacement in safety, I actually ⁴ functioned in both positions, and then I think ⁵ about the last year of my career, I was in char	y for rge
⁴ functioned in both positions, and then I think ⁵ about the last year of my career, I was in char	for rge
⁵ about the last year of my career, I was in char	rge
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⁶ of light rail operations and that I left the	Ĵ
⁷ MBTA in November of 2011.	
8 Some of my I was hired by STV.	The
⁹ first project I worked on was Ottawa. What you	ג see
¹⁰ in front of you, Mr. Coombes, is not an	
¹¹ all-inclusive list of some of the projects and	
¹² agencies that I have worked for.	
13I left STV in July of 2019 and have	9
¹⁴ been employed by WSP since.	
¹⁵ MARK COOMBES: And so just to clar:	ify,
¹⁶ you have had no involvement with the Ottawa LR	Г
¹⁷ project since July 2019?	
18 BRIAN DWYER: I have not.	
¹⁹ MARK COOMBES: Okay. So thank you	for
²⁰ that overview. I think it is fair to say you h	nave
²¹ had a long career in the rail industry thus far	r,
²² and you have had experience in a number of	
²³ different subject matter areas when it comes to	o the
²⁴ rail industry; is that correct?	
25 BRIAN DWYER: Agreed.	

1	MARK COOMBES: Now, with respect to the
2	Ottawa project I am going to take down your
3	resumé now, thank you for commenting on that.
4	BRIAN DWYER: Certainly.
5	MARK COOMBES: With respect to the
6	Ottawa project, you said that your role was more of
7	a subject matter expert. Could you just give me
8	maybe a high level overview, and we'll go into more
9	detail, about what subject matter you may have been
10	called upon for your expertise?
11	BRIAN DWYER: So at a high level,
12	Mr. Coombes, I think the best way I could
13	categorize my involvement with Ottawa is probably
14	in three stages.
15	So when I was first hired by STV in
16	November of 2011, I believe I was in Ottawa on-site
17	within three days or so and I was soon tasked
18	with kind of my primary responsibility was in
19	crafting the safety and security portion of the
20	PSOS. So I was on-site in Ottawa most weeks from
21	November of 2011 until either May or June of 2012.
22	I did have occasion to start some other work for
23	another client in the midst of that period.
24	So that was my first main period in
25	Ottawa. I would say during the period between 2012

1 and let's say 2018 I had kind of re-occurring 2 consulting roles there assisting OC Transpo with 3 Joe North, with some kind of organizational 4 structure discussions and management discussions. 5 At one point I was involved in helping 6 the agency kind of craft an SMS policy, and there 7 may have been other various and sundry tasks that I 8 would occasionally kind of weigh in on. 9 So STV obviously had staff there 10 working all the time, whether it was remote or 11 on-site. Occasionally they would pull folks of 12 certain experience, so folks who had worked at the 13 project in different junctures and to assist with 14 reviews, with discussions, et cetera. 15 And then I believe it was in August 16 2018 I started to work on-site again really 17 focussed on operational readiness, and I was up 18 there pretty much -- well, most weeks. I was up 19 there most weeks between August of 2018 and July of 20 2019. 21 FRASER HARLAND: Just for the purposes 22 of the record, Mr. Dwyer, you mentioned SMS. Can 23 you tell us what that is? 24 BRIAN DWYER: Safety Management 25 Systems, Mr. Harland.

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1	FRASER HARLAND: Thank you.
2	BRIAN DWYER: Certainly.
3	MARK COOMBES: Thank you for that
4	overview, Mr. Dwyer.
5	And before we go on, I am just going to
6	remember to mark your resumé as an exhibit to the
7	examination.
8	BRIAN DWYER: Okay, sir.
9	EXHIBIT NO. 1: Curriculum Vitae
10	of Brian Dwyer.
11	MARK COOMBES: So tell me about your
12	involvement in 2011. When you first became
13	involved in the project, what was going on on the
14	ground in the project at that time? What was
15	happening?
16	BRIAN DWYER: When I first became
17	involved in the project, we were working as a
18	group, not just STV and I apologize,
19	Mr. Coombes, I may not recall all the firms that
20	were involved. I believe it was STV, Little
21	what I would refer to as "Little Jacobs", which was
22	a tunnelling expert. URS, pardon me, was the other
23	firm, and I think there was a fourth firm involved,
24	it may have been Morrison Hershfield, were
25	basically constituted as kind of a project office

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1	known as CTP. And we worked for the City, and I
2	don't remember the acronym of kind of the City
3	folks we were working directly for.
4	But John Jensen was I believe kind of
5	the Director of that group, and that group was made
6	up of both City employees and other consultants who
7	worked either independently I think most of them
8	worked independently. There may have been some
9	people who worked for other firms. But basically
10	it was an arm of the City who was overseeing CTP's
11	work, and what we were focussed on at that juncture
12	was really the PSOS and crafting it.
13	MARK COOMBES: I am just going to ask
14	you to clarify a few acronyms we are using here.
15	CTP stands for?
16	BRIAN DWYER: Capital Transit Partners,
17	if I recall correctly.
18	MARK COOMBES: And if I were to suggest
19	to you that the office you were working for was
20	called RIO, the Rail Implementation Office, does
21	that sound correct?
22	BRIAN DWYER: It does. Thank you.
23	MARK COOMBES: No problem. And you
24	also used the term "PSOS". Can you clarify for us
25	what PSOS means?

1 BRIAN DWYER: The Project Agreement. Ι 2 don't recall what the PSOS acronym actually means, 3 Mr. Coombes, but it was often referred to as the 4 Project Agreement as well. 5 MARK COOMBES: All right, and if I б suggested to you that PSOS meant project-specific 7 output specifications, would that sound correct? 8 BRIAN DWYER: It would sound correct. 9 MARK COOMBES: All right. So can you 10 tell me what your piece of the PSOS was. You 11 indicated safety and security. So what safety and 12 security elements are we talking about? What does 13 safety and security, as far as the PSOS goes, look 14 like? 15 BRIAN DWYER: So what I attempted to 16 do, Mr. Coombes, was really use kind of my 17 experience and kind of knowledge of industry best 18 practices to really influence what went into the 19 PSOS. 20 So you know, I would look at the 21 standards with regard to various safety and 22 security issues. I would look at a variety of 23 Transport Canada or other documents to try and 24 really cull out requirements that would be expected 25 to be part of the Project Agreement.

1 And the reason for that was that OC 2 Transpo was really going from primarily a bus 3 agency, although they had the O-Train, into a 4 fairly large, complicated rail network, and what 5 they were -- you know, we had many engineers and 6 many talented, you know, architects who were 7 working on the project. I would say we probably 8 didn't have a lot of people with operational 9 experience or experience in systems safety. 10 So I was assigned the task of trying to 11 put together that portion of the Project Agreement. 12 MARK COOMBES: And when we are talking 13 about system safety, are you talking about the 14 overall system as a whole, vehicles, or is it not 15 specific to vehicles, it is the safety of the 16 entire system? 17 BRIAN DWYER: It is the safety of the 18 entire system. 19 MARK COOMBES: So this is making sure 20 that whatever specifications are set out in the 21 PSOS or the Project Agreement are ultimately the 22 specifications that any bidder on the project would 23 need to comply with; is that right? 24 That was the intention, BRIAN DWYER: 25 Mr. Coombes. Yes, that was the intention.

1	MARK COOMBES: Okay. And you left that
2	role, you indicated, in around June of 2012. So do
3	you have any sort of sense of how well the ultimate
4	successful bidders on the project were able to
5	comply with those specifications?
6	BRIAN DWYER: So what was developed for
7	the safety and security portion of the PSOS,
8	Mr. Coombes, much of that did not make it into the
9	actual PSOS.
10	And to be honest, that is not unusual
11	when you are consulting. There is probably a good
12	deal of work that you do on perform on behalf of
13	clients that for a variety of reasons, you know,
14	what you develop doesn't get implemented or a
15	decision is made that, you know, it won't make the
16	cut, if you will.
17	And there was kind of a rigorous
18	process by which attorneys and others within the
19	City were looking at the PSOS, and my recollection
20	is that what was included in my draft, let's say,
21	of the PSOS was reduced a great deal.
22	MARK COOMBES: I see. So in other
23	words, maybe you were recommending the very best
24	practices and the ultimate determination was the
25	system would do well with something less than the

1 very best practices? 2 BRIAN DWYER: I -- not to rebut what 3 you are saying, Mr. Coombes. I think my take on it 4 would more be along the lines of the procurement 5 method that they had chosen, the thought was that 6 some of those decisions should be left to the 7 consortium and the contractor. It should really be 8 more of a performance specification than kind of 9 what I would refer to as a traditional contract 10 where you are dictating a lot of terms to a 11 supplier or to a consultant or to a contractor. 12 MARK COOMBES: I understand. So when 13 you arrived on the ground in November of 2011, had 14 the procurement method been determined at that 15 point? 16 It had been. BRIAN DWYER: 17 MARK COOMBES: And when you arrived, do 18 you know if decisions had been made already about 19 the type of system that Ottawa was hoping to 20 implement? 21 Can you clarify the type BRIAN DWYER: 22 of system, Mr. Coombes? 23 Was it known at MARK COOMBES: Sure. 24 that time that it was intended to be an LRV system 25 or other different types of technologies proposed?

1 What was your understanding as to what Ottawa was 2 looking for at that point? 3 BRIAN DWYER: By the time I got 4 involved in the project, it was already determined 5 that it would be an LRV-type system. 6 MARK COOMBES: And did you have any 7 views at that time as to whether or not that was a 8 suitable system for the Ottawa implementation, or 9 was that outside of the scope of your ambit? 10 BRIAN DWYER: I would say the latter, 11 Mr. Coombes. 12 Okay, in other words, MARK COOMBES: 13 you weren't asked to comment on that? You didn't 14 form any views on it because you didn't have to? 15 BRIAN DWYER: No, correct. 16 MARK COOMBES: And I just want to 17 confirm a few elements of whether you were involved 18 or not. Did you have any involvement in assessing 19 any of the potential vendors for the procurement? 20 BRIAN DWYER: Yes. 21 MARK COOMBES: Okay. And can you 22 recall what vendors you might have been assessing 23 at that time? 24 I don't recall all the BRIAN DWYER: 25 teams, Mr. Coombes. I was involved -- they had the

1	procurement broken out into kind of various
2	subsections. So it was not kind of a large group
3	who was weighing in on all portions of the
4	procurement.
5	I don't recall all of the kind of
6	subgroups, if you will, that were part of the
7	selection process. I was involved in what I
8	believe was kind of an O&M portion of it. I know
9	there was a financial portion of it. There may
10	have been a performance portion of it.
11	Yeah, but all of the groups, I don't
12	recall the makeup of all of those parties.
13	MARK COOMBES: And just to clarify, you
14	said you were involved in the O&M portion of it.
15	Is that operations and maintenance?
16	BRIAN DWYER: Yes.
17	MARK COOMBES: So your involvement from
18	an operations and maintenance perspective then was
19	really was what? What were you doing as part of
20	the operations and maintenance portion of what you
21	were doing?
22	BRIAN DWYER: I would say the City and
23	the Project Team was really focussed on ensuring
24	that the bidders could meet the kind of capacity
25	that the City was expecting and the performance

1	metrics as far as headways, et cetera.
2	So my recollection is that is what we
3	were primarily focussed on.
4	MARK COOMBES: Okay, and did you have
5	any involvement in assessing Alstom, who was the
6	vendor that was ultimately selected for the
7	project?
8	BRIAN DWYER: I don't recall if Alstom
9	was party to kind of the presentation in the
10	material we reviewed, Mr. Coombes. I know from my,
11	you know, later involvement that Alstom was the
12	vehicle supplier, of course.
13	MARK COOMBES: Yes, so we'll get back
14	to we'll definitely come back to Alstom, you
15	know, with your later involvement in the project.
16	But just in terms of your involvement
17	at that early stage, would you have been asked to
18	comment on or did you have any involvement with
19	reviewing plans for the use of the Citadis model
20	train for the project?
21	BRIAN DWYER: I don't recall what the
22	material was that we reviewed, Mr. Coombes, to be
23	honest.
24	MARK COOMBES: All right. So is it
25	fair to say that the work that you were doing, you

1 know, with respect to the PSOS and the O&M 2 component was more at a higher generic level that 3 would apply to everybody as opposed to reviewing 4 specific, you know, proposals at that time? 5 BRIAN DWYER: For the PSOS work, yes. 6 I mean, we were provided material very -- pardon 7 me, not to editorialize, I thought the process by 8 which the City kind of undertook the selection 9 process was really well-codified. They had a 10 Fairness Commissioner talk to us. I was involved 11 in a great deal of procurement processes at the 12 MBTA, and I was really impressed with the manner in 13 which the City undertook it. 14 But to be honest with you, Mr. Coombes, 15 I don't recall the material that we reviewed, and I 16 do recall that it was -- you know, the whole thing 17 was very confidential. 18 MARK COOMBES: I mean, I am only asking 19 you for your recollection, so I appreciate -- if 20 you are telling me you don't recall, then I can 21 appreciate that. 22 BRIAN DWYER: Sure. 23 MARK COOMBES: It was, you know, at 24 this point 12 years ago, so it was a long time ago 25 to remember, I appreciate that.

1	BRIAN DWYER: Yes.
2	MARK COOMBES: So maybe we can just
3	move forward then to some of your other involvement
4	during sort of what I would call the intervening
5	period, maybe from 2012 to 2018.
6	BRIAN DWYER: Certainly.
7	MARK COOMBES: At that time, did you
8	have like an ongoing role with respect to the
9	project, or I think I recall you giving your
10	evidence that you were maybe brought in, you know,
11	sort of in bits and pieces to comment on things as
12	the project went along; is that a fair
13	characterization?
14	BRIAN DWYER: Yeah, I would say the
15	latter is probably a fair characterization, Mr.
16	Coombes, and I would say I think when I don't
17	recall excuse me, folks. I don't recall exactly
18	when Mr. Manconi was brought in as the OC Transpo
19	General Manager, but he seemed to have an interest
20	in having some people with agency experience weigh
21	in on things like organizational structure and
22	talking to the team.
23	And at the time I was working I think
24	still for Joe North, so most of his contact would
25	have been with Joe but I would be brought in to

1 some of those discussions either on-site or 2 reviewing material or meeting with staff, et 3 cetera. 4 All right. And that was MARK COOMBES: 5 going to be one of my next questions, which is did 6 you have a direct interface with the City, or was 7 most of your involvement through another member of 8 STV? 9 BRIAN DWYER: I would say it fluctuated 10 a good bit, Mr. Coombes. So I am comfortable 11 saying that a lot of my -- I worked for Joe North. 12 You know, if you looked at an STV org chart at the 13 time, I reported to Joe. So usually for I would 14 say a number of years, my involvement was really 15 through Joe. 16 So the meetings I attended, the 17 material I might review and comment on, that would 18 all go through Joe North. 19 MARK COOMBES: So you were involved in 20 meetings with the City staff at that time, as 21 relevant? 22 BRIAN DWYER: Yes. 23 MARK COOMBES: And with respect to your 24 activities during this period, from 2012 to 2018, 25 can you give us an overview of some of the activity

1	that you would have been involved in? I mean, I am
2	not expecting you to have a perfect recollection of
3	that multi-year time period, but if you could give
4	us just a sense of what was the project doing at
5	that time and what were you being asked to comment
6	on at that time?
7	BRIAN DWYER: So if there were I
8	don't want to call it a seminal period,
9	Mr. Coombes. When I was on-site for a period in
10	that time frame, it was working pardon me,
11	helping the OC Transpo with the SMS policy, it
12	was you know, most of what I reviewed and did
13	with the project in that intervening period was
14	done off-site. So there were a lot of kind of, you
15	know, phone meetings and email correspondence. I
16	would be sent various documentation, SOPs, et
17	cetera, and asked to comment on them.
18	MARK COOMBES: All right. And were you
19	ever asked to produce any of that material
20	yourself, or was it more of a commentary and
21	advisory role on what other organizations had
22	produced?
23	BRIAN DWYER: I think the answer
24	depends on the material.
25	So I would say for the SMS policy that

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1	we worked on, again, I would almost draw a
2	comparison to what I mentioned about the PSOS. So
3	I may be producing some information that portions
4	of it get used, but it doesn't get used writ large,
5	if you will.

6 And with regards to my commentary 7 about, you know, SOPs and on other policies for OC 8 Transpo or that the consortium is providing to 9 them, I would comment based on my experience and 10 based on my understanding of how the system would 11 work and really doing -- and pardon me, I think 12 everybody involved was really doing all they could 13 to try to vision forward to the point where the 14 system was operating and trying to make sure that, 15 you know, OC Transpo was well-positioned for their 16 role in it.

MARK COOMBES: And so did you have any involvement with RTM, which was the maintainer for the project?

BRIAN DWYER: Involvement in that I would review -- pardon me, Mr. Coombes, we are talking about in the intervening period 2012, let's say, to '18?

MARK COOMBES: Correct.

BRIAN DWYER: Yeah, involvement in that

1 I would attend some meetings with them or review 2 documentation that they would put together, yes, I 3 did. 4 MARK COOMBES: Okay, and then your 5 involvement with OC Transpo was on the operations 6 aspect of how the system would work once it was in 7 service; is that right? 8 Most of my advice to OC BRIAN DWYER: 9 Transpo was really in the operating and safety 10 realm. If you kind of had to put it in a bucket, I 11 would provide -- however, I would provide any 12 relevant feedback or information I thought would be 13 helpful to them, but certainly it was focussed more 14 on operations and safety than anything. 15 Okay. And this was OC MARK COOMBES: 16 Transpo was sort of, for lack of a better term, 17 using your skills because they weren't a mature 18 rail operator; is that fair to say? 19 I would say that is a BRIAN DWYER: 20 fair statement, Mr. Coombes. I am not being 21 cheeky. I mean, obviously it is not for me to say 22 why OC Transpo was using us. 23 I think Mr. Manconi wanted to make sure 24 at one point that there was some operating advice 25 that he and the agency were getting. I think at

<pre>1 times, you know, folks are worried about pardon 2 me, not worried. I think at times folks like to 3 have kind of multi-faceted pieces of advice they 4 get, not just engineering advice but also kind of 5 practical agency advice, if you will. 6 And again, that is my kind of take on 7 it. That is not OC Transpo's, if you will. 8 MARK COOMBES: Right, and that would be 9 because they had never run one of these systems 10 before, so they were were they sort of building 11 from the ground up their operations procedures, 12 their SMS, as you say? They were really developing 13 something that they hadn't done before? 14 BRIAN DWYER: They had the O-Train in 15 place, Mr. Coombes, so I would not say you know,</pre>
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BRIAN DWYER: They had the O-Train in place, Mr. Coombes, so I would not say you know,
¹⁵ place, Mr. Coombes, so I would not say you know,
16 the O-Train is not the Confederation Line. It is a
¹⁷ train line that is, you know, regulated and needs
¹⁸ to be run and has its own kind of safety
¹⁹ precautions and maintenance and operational
²⁰ characteristics.
²¹ So they did have some experience there.
²² I do think so I think certainly advice from
²³ folks like myself and Joe I would like to think was
²⁴ helpful to OC Transpo. They were certainly paying
²⁵ well for that to STV.

1 But I do think that the staff they had 2 set up within OC Transpo already was a very robust 3 I mean, OC Transpo was the second-largest staff. 4 bus agency in Ontario, so you know, they were a 5 known entity, if you will. 6 And I think that as far as the 7 organization, I think it was set up well. 8 And this is going to be MARK COOMBES: 9 a very sort of high level question, but you know, 10 we are talking about a very broad time period here. 11 Generally speaking, did you have a 12 sense that the City was receptive to your advice? 13 I mean, when I say "the City", I mean OC Transpo 14 specifically. 15 BRIAN DWYER: Yes. 16 MARK COOMBES: And at that time, did 17 you perceive sort of any gaps or issues with 18 experience that you thought needed addressing? 19 BRIAN DWYER: Issues with experience 20 with whom, Mr. Coombes? MARK COOMBES: So in other words, you 21 22 know, any areas that OC Transpo maybe didn't have 23 the correct procedures in place, that they sort 24 of -- there was a gap in their knowledge or 25 experience?

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1	BRIAN DWYER: I guess I would say that
2	OC I thought OC Transpo did an excellent job of
3	preparing for the roll-out of the operation, and I
4	think probably Mr. Manconi and Jocelyne Beijin did
5	an excellent job tried to make sure that where
6	they felt they may have gaps in experience, they,
7	A, got some consulting help to fill that, but B,
8	tried to make it a bit of a mentoring role between
9	those consultants and the staff they had.
10	And when I say a mentoring role, I am
11	really not thinking of myself. There was another
12	gentleman who worked for STV who has I would say,
13	if I had to say, you know, better experience than I
14	do who was on-site in the last number of years who
15	I think really played a mentoring role to a couple
16	of folks.
17	MARK COOMBES: And who was that person?
18	BRIAN DWYER: Larry Gaul.
19	MARK COOMBES: Larry Gaul, thank you.
20	So just, again, focussing on this
21	period, did you have any concerns at that time
22	about what you were seeing or the processes that
22 23	about what you were seeing or the processes that were being implemented? Any sort of concerns that

²⁵ later on?

BRIAN DWYER: I would comment on anything that was kind of put in front of me or if there were topical discussions, Mr. Coombes. At that juncture, I couldn't point to anything to say, Wow, this looks to be kind of, for lack of a better term, a showstopper or a significant issue.

7 MARK COOMBES: So at that time, you 8 know, I quess your role was not to be in charge of 9 the project. That was for OC Transpo. But you 10 were -- anything that you were asked to comment on, 11 you know, you commented on and then what the City 12 might have or might not have done with that advice you may not even know the full extent of it; is 13 14 that fair?

¹⁵ BRIAN DWYER: Yeah, Mr. Coombes, you ¹⁶ know, I am a very risk-averse person, and I was, ¹⁷ you know, probably in part taught that by my career ¹⁸ at the MBTA, you know, that operating the size of ¹⁹ the system that the T does and in the climate we do ²⁰ can be very difficult and challenging.

So you know, I commented on a great deal, so I could not tell you point by point in all the commentary I provided, you know, what actually kind of made it into documentation, et cetera, and what did not.

1 I think OC Transpo was receptive to the 2 advice they got from people they viewed who had a 3 certain level of expertise. 4 MARK COOMBES: And maybe you could just 5 explain to me a little bit more, and you touched on б it earlier, but you know, at this stage if you are 7 assisting with SMS or the safety management 8 systems, you know, describe for somebody who has no 9 rail experience, what does -- safety management 10 systems, what does that involve? 11 I would say that at a BRIAN DWYER: 12 broad level, SMS is really something that transit, 13 especially rail transit, has probably really gotten 14 into in the last 10 or 15 years. I would say it 15 has borrowed more from aviation than any 16 discipline. 17 And part of it is really about kind of 18 a proactive safety culture and trying to use 19 leading indicators rather than -- leading 20 indicators such as, you know, rules compliance 21 programs in training rather than lagging indicators 22 such as accidents or, you know, signal violations, 23 et cetera, to really get out ahead of issues that 24 an operation might have. 25 MARK COOMBES: All right, so putting

1 policies and procedures in place to make sure 2 issues don't happen as opposed to assessing why 3 they did happen? 4 BRIAN DWYER: Correct. And I would say 5 as well, Mr. Coombes, really ensuring that the б agency is well set up to be constantly tracking 7 that data and reviewing that data and undertaking 8 course corrections if they see any items of 9 concern. 10 MARK COOMBES: Understood. Maybe we can move forward in time then to talk about your 11 12 involvement with the project starting in August of 13 2018. 14 So what happened in August 2018? What 15 marks the start of that period of the project for 16 you? 17 BRIAN DWYER: I would say -- pardon me, 18 as I indicated previously, I was involved at 19 different points in those intervening years between 20 2012 and 2018. If I had to -- I wouldn't point to 21 an event, Mr. Coombes. I would point to the fact 22 that at that point it was getting close to the 23 period where the project should have been up and 24 running, and I think OC Transpo wanted to increase 25 the boots they had on the ground.

1 MARK COOMBES: And were you a member of 2 the Independent Assessment Team at that time? 3 BRIAN DWYER: I attended a lot of 4 meetings of the Independent Assessment Team, 5 Mr. Coombes. I don't think I was technically a 6 member of the Independent Assessment Team. 7 MARK COOMBES: And what type of -- I 8 suppose what were you doing for the project at that 9 time, starting in August 2018? What were you being 10 called upon to do? 11 So again, really BRIAN DWYER: 12 reviewing a great deal of policies and procedures, 13 helping out with that. I would say more than 14 anything, I was attached to Troy Charter, who was 15 the Chief Operating Officer, and I was -- you know, 16 as I am sure we can all appreciate, as I mentioned, 17 OC Transpo is a huge bus operation still. Troy at 18 that time was still the Chief Operating Officer for 19 all of those operations, but he is also preparing 20 to be running a major rail line within his kind of 21 empire, if you will. 22 So I was really kind of serving as an extension of his staff, assisting with anything 23 24 associated with the project. At a broad level, I 25 would say that is -- you know, I started my day

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1 with Troy and usually ended my day with Troy. 2 MARK COOMBES: And were you on the 3 ground in Ottawa at that time? Were you attending 4 remotely? What did your physical involvement in 5 the project look like? 6 BRIAN DWYER: No, I couldn't tell you 7 week by week, Mr. Coombes, but the majority of the 8 time -- pardon me, the majority of the work time 9 between August of 2018 and July of 2019, I was 10 on-site in Ottawa. 11 MARK COOMBES: And at that time, you 12 know, the original -- are you aware of what the 13 original revenue service date for the project was? 14 I know there were --BRIAN DWYER: 15 pardon me, I can't recall the dates, Mr. Coombes. 16 I do know that in the period that I was on-site, 17 2018 to 2019, we missed a date or two. 18 MARK COOMBES: And do you have a sense 19 at that time of what sort of the main issues were 20 that were causing the sort of slippage of the 21 revenue service date? 22 BRIAN DWYER: My recollection is a lot 23 of it had to do with vehicle performance and the 24 number of vehicles available. 25 MARK COOMBES: And were you being asked

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1 to comment on any of that vehicle performance or 2 number of vehicles, or were you -- was your 3 commentary sort of focussed elsewhere? 4 I think, as I indicated BRIAN DWYER: 5 previously, Mr. Coombes, although we may have had a 6 specific area that we were really focussed on, 7 given our experience and if you are attending a 8 larger meeting with a number of folks, at different 9 points they may ask you your opinion about 10 something or you may feel compelled to weigh in on 11 a particular issue. 12 So it was -- at that time, I forget the 13 exact dates, my apologies, but OC Transpo became 14 concerned enough about the vehicles that they added 15 another person from STV. And again, I don't know 16 if he was technically a member of the Independent 17 Assessment Team, but he became kind of a boots on 18 the ground guy and just is -- you know, I have 19 known the gent for guite sometime, even before I 20 came to STV, and I mean, if you want to talk about 21 a legitimate SME, this guy is the man. 22 MARK COOMBES: And is that Scott 23 Kreiger? 24 It is. BRIAN DWYER: 25 And so I guess I am just MARK COOMBES:

1 trying to, you know -- we have spoken with Scott 2 Kreiger. We know his involvement was mostly with 3 the vehicle side of things. 4 BRIAN DWYER: Uhm-hmm. 5 MARK COOMBES: I quess what I am trying 6 to ask you is, you know, where were your efforts 7 focussed? What parts of the system were you 8 focussed on at that time, if you had a focus? 9 BRIAN DWYER: I would say operational 10 readiness. 11 MARK COOMBES: And operational 12 readiness, is that in terms of OC Transpo being 13 ready to operate the system? Does that have 14 anything to do with maintenance? When we were 15 talking about operational readiness, what are you 16 referring to? 17 BRIAN DWYER: It certainly primarily 18 focussed on the OC Transpo end of things, but it is 19 also considering kind of the interaction with the 20 consortium as far as running the system. 21 And, again, Mr. Coombes, not to be 22 cheeky, I mean they are inextricably linked, if you 23 will. You know, OC Transpo may have the operators 24 and the Control Centre and some field supervisory 25 staff, but you need those vehicles, you need the

1	maintenance of the system, you know, et cetera.
2	So you know, you can't have one without
3	the other.
4	MARK COOMBES: Sure, sure. Maybe I can
5	just drill down a little bit and ask you about at
6	that point OC Transpo's readiness to operate the
7	system.
8	So you know, I can imagine that there
9	are a number of issues or areas that need to be
10	addressed in terms of operational readiness, so you
11	have touched on, you know, policies and procedures
12	being in place. I assume training of drivers is a
13	large component of that?
14	BRIAN DWYER: Yes.
15	MARK COOMBES: And did you have a sense
16	of how the training of drivers was proceeding at
17	that time, whether it was ahead of schedule, behind
18	schedule?
19	BRIAN DWYER: I don't remember the
20	exact dates, Mr. Coombes. I would say generally I
21	do recall that at one point there was some
22	difficulty in getting access to different points of
23	the system, and I believe you know, that is
24	not and if it is okay, I won't mention the other
25	project, but I am involved in a project now where a

very similar dynamic exists where there is ongoing
construction of a system that continues but an
entity is trying to get their operators and their
field staff out there for familiarization, to drive
vehicles, et cetera.
My recollection is that existed at OC
Transpo. I think that towards the end of my tenure
there, though, that was that issue I don't
want to say it was solved, but operators were
training and I was actually I was very impressed
with the training staff that OC Transpo had in
place. They had most of the trainers come over, I
think they matriculated over from bus which to me
is you are always best off taking folks who were
trainers somewhere else and kind of incorporating
them in.
So I thought they did a good job with

¹⁸ training.

19 And do you have any MARK COOMBES: 20 sense if there were some difficulties with, you 21 know, training proceeding sort of in that 2018 22 period, let's say, what those difficulties were 23 related to? Was that related to the availability 24 of the track, the availability of vehicles? Do you 25 have a sense of why they were having those

1 difficulties? 2 BRIAN DWYER: The details I don't. 3 Mr. Coombes, I would say, you know, there was 4 certainly periods where it was difficult to 5 get -- my recollection is there were periods where 6 it was difficult to get vehicles. 7 There was definitely an issue at one 8 point with regards to trying to train people on a 9 system that isn't fully constructed and issues --10 you know, concerns with regards to, you know, 11 ventilation and access, et cetera. 12 And vehicles would occasionally be an 13 issue because I think, you know, Alstom was in the 14 process of trying to maintain the vehicles that had 15 already been produced and finishing the fleet off. 16 MARK COOMBES: And you know, in terms 17 of availability of the system, so is that related 18 to, you know, being able to run trains from, you 19 know, end to end on the system? 20 BRIAN DWYER: Yes. 21 MARK COOMBES: And do you have a 22 recollection of a sinkhole that occurred during the 23 project? 24 BRIAN DWYER: I know there was a delay 25 due to the sinkhole, yes.

1 MARK COOMBES: And any sense of whether 2 that delay was something that contributed to the 3 maybe difficulties that OC Transpo was having with 4 driver training? 5 BRIAN DWYER: I don't know that -- I б don't think I view the two as connected. 7 MARK COOMBES: Okay. Any sense at that 8 time of what the relationship between the City and 9 let's say RTG or different subcontractors within 10 RTG? You were involved in meetings. Do you have a 11 sense of what the working relationship was like 12 between the parties? 13 BRIAN DWYER: It was constant. Tt. 14 was -- you know, as with most projects that, you 15 know, at different points, you know, may be missing 16 their scheduled start date or are having some 17 difficulties, it would get -- at different 18 junctures, it got contentious. But I think it was 19 mostly collaborative, in my opinion. 20 MARK COOMBES: At least maybe as 21 compared to other projects you have worked on, 22 would you say there was, you know, more of a 23 different approach in this project or similar to 24 other projects you have worked on? 25 BRIAN DWYER: So I would say,

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1	Mr. Coombes, that most of the other projects I work
2	on, it would be more the traditional kind of
3	process where it is not based on kind of a
4	performance specification, if you will. It is more
5	kind of, you know, there is very strict criteria
6	within a contract which somebody can point to.
7	My appreciation of the contract with
8	RTG was that, you know, you may not have those.
9	MARK COOMBES: Okay. Can you maybe go
10	into that in a little bit more detail? What do you
11	think was maybe not there?
12	BRIAN DWYER: That maybe it is more of
13	a States things, Mr. Coombes, but a lot of
14	the contracts we have, they are very or, pardon
15	me, the projects I have worked on, it is very
16	didactic with regards to what you are requiring a
17	contractor or a consultant to do.
18	I don't have perfect knowledge of all
19	that was in the agreement with RTG, but I think
20	there was some kind of broadness to what was in
21	there.
22	And I think with regards to elements
23	like the vehicles, I think it was more of a
24	performance specification than a very prescriptive
25	point-by-point that you shall have this and you

1	shall have that.
2	MARK COOMBES: And so, I mean, maybe
3	help me understand what you perceive the impact of
4	that may have been.
5	BRIAN DWYER: Yeah.
6	MARK COOMBES: Does that mean that the
7	City would have had to have been more involved in
8	sort of, I don't know, for lack of a better term,
9	sort of giving guidance as things went? Or what do
10	you think the outcome of that was in this
11	particular case? What sort of dynamic
12	BRIAN DWYER: Yeah, I I talked
13	before you finished, Mr. Coombes. I am terribly
14	sorry.
15	MARK COOMBES: No problem. I was just
16	going to say what sort of dynamic did that create,
17	in your perception? I mean, obviously you don't
18	have a view of the project as a whole, but just,
19	you know, you have sort of talked about your
20	perception. So tell me about your perceptions of
21	what that sort of implication was here?
22	BRIAN DWYER: What I was trying to get
23	across, Mr. Coombes, is I am used to usually,
24	routinely, more didactic provisions in a contract
25	that you can point to to say, you know - not that I

1 am making this up, but an example - hey, we are a 2 acquiring a Knorr compressor for your vehicle and 3 we expect it to have this service life, et cetera. 4 You know, that I am aware of, the 5 contract that OC Transpo had or the City had didn't 6 have provisions like that in there, so it 7 doesn't -- there is nothing wrong with that. In 8 performance specifications used throughout the 9 industry, most of the projects I worked on - and I 10 am really thinking more of my MBTA career and 11 experience there - were far more prescriptive about 12 what you require of somebody. They weren't 13 performance-related. They were didactic 14 requirements that were built into a contract. 15 MARK COOMBES: All right. And given 16 vour involvement sort of in the PSOS at the outset, 17 do you have a sense of why that might have been 18 different in this case? Again, from your 19 experience. I am not asking you to sort of 20 speculate, but you know, if you have any specific 21 experience, I would be interested in hearing about 22 it. 23 BRIAN DWYER: Certainly. I would say 24 no, Mr. Coombes, in that when I came into that role

²⁵ in November of 2011, that was already decided and

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1	set up, so if you will, that was the paradigm that
2	the group was working within.
3	MARK COOMBES: Understood. Do you have
4	a sense of whether, you know and again, you
5	weren't with the project right up until revenue
6	service, so I can't obviously, I am not going to
7	ask you to comment after the July 2019 period.
8	But at least, you know, your sense of
9	what was happening towards the end of 2018 or 2019,
10	do you think that the amount of training that the
11	operators had with the system was adequate? Do you
12	think they got enough time to be trained to run the
13	system?
14	BRIAN DWYER: I didn't recall any issue
15	with operator training, Mr. Coombes, as far as the
16	length of training.
17	MARK COOMBES: Sure. And otherwise, in
18	terms of maybe not specifically the train operators
19	themselves, the drivers, but just OC Transpo's
20	overall ability to run the system, do you think
21	there were any issues at that time that might have
22	prevented OC Transpo from being able to get the
23	experience necessary to be fully able to operate
24	the system on a daily basis?
25	BRIAN DWYER: I want to make sure I

1 answer the question you are asking. Can you repeat 2 the question one more time, Mr. Coombes? 3 MARK COOMBES: Sure. So we have 4 already talked about, say, the training of the 5 drivers specifically and whether they have had 6 access to the track to go end to end or otherwise. 7 BRIAN DWYER: Sure. 8 MARK COOMBES: I assume that is only 9 one component of the overall operation of the 10 There is also a number of staff that OC system. 11 Transpo has to have to physically operate the 12 system writ large, not just the drivers. 13 Did you have a sense of whether there 14 were any other issues with getting those people, 15 you know, in the positions they needed to be, to be 16 successful in operating the system? 17 I don't recall any BRIAN DWYER: 18 outstanding issues. I was actually very impressed 19 with the -- and I am going to forget the last name 20 of the chap who was in charge of the Control 21 Centre, but he was -- and you know, I am going to 22 sound like an old guy now, but he was a 23 crackerjack. 24 I spent a good amount of time, myself

²⁵ and Larry Gaul in the Control Centre as they were

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1	undertaking trial running and getting ready to kind
2	
	of react to the system. And in the Control Centre
3	you need to worry about safety primarily but you
4	need to worry about performance and you need to
5	worry about headways. And I was very impressed
6	with the time and care that that staff took to
7	really kind of learn the system and how it
8	operated.
9	MARK COOMBES: And did you get any
10	sense during that time that there were any sort of
11	frustrations that they were feeling with the
12	readiness of the system and the ability to do sort
13	of the work they needed to do to get ready?
14	BRIAN DWYER: Referring to the Control
15	Centre staff, Mr. Coombes, or
16	MARK COOMBES: Yes.
17	BRIAN DWYER: Any project or any
18	service I have always been involved in either I
19	would say that it takes time for people to develop
20	an appreciation for exactly how the system works.
20 21	
	an appreciation for exactly how the system works.
21	an appreciation for exactly how the system works. So I would say that was no different at OC Transpo.
21 22	an appreciation for exactly how the system works. So I would say that was no different at OC Transpo. MARK COOMBES: Did you have any

1 I mean, obviously we have heard from 2 other witnesses that there was an issue with 3 vehicle availability generally, right, so there was 4 some problem with getting the number of trains 5 ready. But in terms of any other vehicle 6 7 issues that you might have understood were going on at that time, did you have any exposure to any of 8 9 those issues? 10 BRIAN DWYER: I would have had exposure 11 through discussions at kind of the IAT meetings and 12 other discussions, Mr. Coombes, but specifically, 13 no. 14 MARK COOMBES: So, you know, again, 15 that would be more of a question probably for Scott 16 Kreiger than it would be for you; is that fair to 17 say? 18 BRIAN DWYER: It would be a much better 19 question for Mr. Kreiger. I would also -- I would 20 steal your thunder a bit, Mr. Coombes. I think I 21 would have the same take that it sounds like some 22 of the other witnesses did that the primary issue 23 with the vehicles seemed to be availability, the 24 number of vehicles available. 25 MARK COOMBES: Sure. So you know, no

1	sense of and you can just agree or disagree with
2	me. You would have no real interface or sense of,
3	you know, specific issues that Alstom was
4	encountering say over testing over that winter?
5	BRIAN DWYER: I don't recall,
6	Mr. Coombes.
7	MARK COOMBES: You know, no
8	understanding of any issues they were seeing with
9	doors of the trains?
10	BRIAN DWYER: I don't recall specifics
11	of anything like that. Mr. Coombes, I have been
12	involved in vehicle procurements at the T, and you
13	know, ancillary I don't even know what word I am
14	using.
15	I have also had some involvement as a
16	consultant, not as a direct overseer, but kind of
17	assisting different agencies, and that might fall
18	under your bailiwick. Doors, propulsion, brakes,
19	they are issues on any vehicle procurement.
20	MARK COOMBES: Sure. I guess what I am
21	trying to get at is, you know, I don't know you and
22	I don't know your involvement with the project, so
23	you know, I am not suggesting you should have had
24	an interface with those things. I am asking if you
25	did or didn't, and you can feel free to tell me

1	that you didn't is I guess where I am going with
2	that.
3	BRIAN DWYER: And, Mr. Coombes, I am
4	trying to give you a complete answer. I would have
5	heard and talked with people on the IAT or Scott or
6	people at OC Transpo about issues that came up. I
7	don't recall specifically what those issues with
8	the vehicle were. Vehicle availability was an
9	issue.
10	MARK COOMBES: And is that vehicle
11	availability in terms of both at and going into
12	revenue service and also for, say, training and
13	testing?
14	BRIAN DWYER: I would say one leads to
15	the other, so yes.
16	MARK COOMBES: Sure. And were you
17	involved at all in either assisting with or
18	reviewing any of the sort of testing and
19	commissioning activities that took place, you know,
20	say, going from late 2018 to your conclusion with
21	the project?
22	BRIAN DWYER: Yes.
23	MARK COOMBES: And maybe you could just
24	give me a sense of what your involvement with that
25	activity would have been during that time period.

1 BRIAN DWYER: I think -- details I 2 don't recall, Mr. Coombes. I would say that there 3 were testing and commissioning plans that would 4 have made the rounds kind of in that interim period 5 we talked about previously. 6 And I think when it came to kind of the 7 actual testing and commissioning in that period 8 when I was back in Ottawa, it was really advising 9 staff. If they had questions or they wanted to 10 talk about kind of my experience with it, I might 11 weigh in, but we were not in the field involved in 12 testing and commissioning. 13 MARK COOMBES: I understand. So you 14 would be more about reviewing the results of 15 testing and commenting as opposed to actually being 16 involved with the performance of any testing and 17 commissioning? 18 BRIAN DWYER: Yes. 19 MARK COOMBES: Did you have a sense of 20 whether there was any schedule compression going on 21 on this project? 22 Can you provide a little BRIAN DWYER: 23 more detail there, Mr. Coombes? 24 MARK COOMBES: Sure. So we have heard 25 from other witnesses that, you know, sort of one of

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1 the activities that the Independent Assessment Team 2 was undertaking was sort of some scheduling 3 assessments, right, figuring out whether or not the 4 schedule updates that RTG was giving were accurate, 5 realistic, reasonable. 6 And one of the sort of issues that we 7 have heard from other witnesses is that there was a 8 sense that there was a number of activities that 9 still needed to be done and the time for doing 10 those activities was sort of shrinking. That is what I mean by compression. Would you agree that 11 12 that was what was happening on this project? 13 BRIAN DWYER: Yes. 14 MARK COOMBES: And were you asked to 15 sort of review or comment on schedules at any 16 point? 17 Through the IAT and other BRIAN DWYER: 18 discussions we would have with the City and with 19 the RTG staff, we would brainstorm about a lot of 20 issues, sure. 21 MARK COOMBES: And did you have a sense 22 of sort of what was causing -- did you or I quess 23 your experience in the IAT, did you have a sense of 24 what was causing that scheduling issue or 25 compression I am referring to?

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1 BRIAN DWYER: No. 2 MARK COOMBES: And do you recall any 3 discussions at any point with the City or otherwise 4 about a soft start of the system? 5 In detail, no, but yes. BRIAN DWYER: 6 MARK COOMBES: Okay. And those 7 discussions would have been, you know, between the 8 IAT and the City; is that your recollection? 9 BRIAN DWYER: I don't know if it 10 was -- I think the IAT may have been talking to OC 11 Transpo and the City may have been talking to the 12 consortium about that. I am not exactly sure of 13 kind of how all of that laid on top of each other. 14 MARK COOMBES: And so just to be clear, 15 you are not really sure what the discussion was or 16 what the content of that discussion might have 17 been, just that there was potentially some 18 discussion about it? 19 Yeah, and there would BRIAN DWYER: 20 have been, Mr. Coombes, but I would say what I 21 could not clarify for you is, you know, obviously 22 folks involved in a project may kind of weigh in on 23 suggestions they have based on other experience 24 they have had in other places. 25 So whether or not that was kind of

1 discussed internally with whether the IAT or with 2 OC Transpo or with kind of the consulting team or 3 how that did or did not get to RTG, I am not really 4 sure. 5 MARK COOMBES: And if I could ask you 6 just, you know, based on your experience, any views 7 about a soft start, about whether that is 8 beneficial for a system or sort of what the 9 advantages and disadvantages of a soft start are? 10 Any experience with that? 11 BRIAN DWYER: No. 12 Maybe we can talk a MARK COOMBES: 13 little bit about sort of maintenance for a second 14 and RTM. Did you have any interaction with 15 commenting on, you know, during that time period, 16 say the August 2018 period on, about the 17 maintainer's readiness for going into revenue 18 service? 19 BRIAN DWYER: I would capture that 20 again, Mr. Coombes, about those are 21 probably -- those are issues that would have been 22 The details behind them I discussed at the IAT. 23 don't recall. 24 MARK COOMBES: You don't recall. So do 25 you recall - and again, you can say yes or no -

1 whether or not the perception was that RTM was 2 ready or not ready to maintain the system at 3 revenue service? 4 BRIAN DWYER: I have a recollection 5 there were concerns regarding their readiness, but 6 I don't recall the details of the why behind that. 7 MARK COOMBES: You wouldn't recall the 8 specific concerns that were at the service at that 9 time? 10 BRIAN DWYER: No. 11 MARK COOMBES: Again, you can say yes 12 or no about this, but any understanding about the 13 interactions between RTM and its maintenance 14 subcontractor Alstom? 15 BRIAN DWYER: Can you repeat the 16 question, Mr. Coombes? 17 MARK COOMBES: So I'll give you a 18 little bit more detail before I ask the question, 19 and maybe that will assist. 20 BRIAN DWYER: Yes, sure. 21 MARK COOMBES: So RTM is the 22 organization responsible for maintenance of the 23 system. 24 BRIAN DWYER: Yes. 25 Alstom, the vehicle MARK COOMBES:

1	manufacturer, is also the subcontractor responsible
2	for the vehicle maintenance portion of that
3	contract. Do you have any understanding or can you
4	recall any details about any concerns arising about
5	the relationship between RTM and Alstom during that
6	time period?
7	BRIAN DWYER: I don't recall details
8	about an issue of the relationship between those
9	two parties. I do as we have discussed,
10	Mr. Coombes, the vehicles were absolutely an issue
11	with regards to availability and the number of them
12	that were ready for revenue service.
13	MARK COOMBES: And do you recall that
14	there were issues not just with the availability of
15	the number of vehicles for revenue service, but
16	were there any concerns at the time about the
17	ability of the maintainer to ready those vehicles
18	for service, you know, on a daily basis?
19	BRIAN DWYER: I would say yes.
20	MARK COOMBES: And do you remember what
21	any of those specific concerns might have been?
22	BRIAN DWYER: I would say they are the
23	same concern that any agency has or any, you know,
24	vehicle maintenance provider has, is having the
25	requisite number of qualified staff to maintain a
1	

1 fleet. 2 MARK COOMBES: And do you recall there 3 being any specific concerns about there being the 4 required number of qualified staff, any concerns 5 about staffing issues that would have been raised, 6 per your commentary or otherwise? 7 BRIAN DWYER: The details behind it, 8 no. 9 Maybe I'll ask you about MARK COOMBES: 10 trial running. Do you have any recollection of 11 what the plans for trial running of the system were 12 in sort of the 2018/2019 time period? 13 BRIAN DWYER: I don't remember all the 14 provisions of trial running, but I do remember it 15 was a -- that was one portion of the agreement that 16 seemed prescriptive to me. 17 MARK COOMBES: Okay, could you go into 18 a little bit more detail about what the 19 prescriptive elements might have been, in your 20 perception? 21 Certainly. So I would BRIAN DWYER: 22 say, Mr. Coombes, in my perception, I think 23 most -- less from personal experience and more from 24 knowledge of the industry, I don't think that most 25 places have such a robust trial running setup or

1 expectation plan going into that. 2 And I don't believe trial running 3 started while I was there, but what the expectation 4 was with regards to performance and failures in 5 service, I remember believing that that portion of 6 the requirement was very strict and - pardon me - I 7 would wholeheartedly endorse that. 8 In other words, having MARK COOMBES: 9 strict requirements for trial running. 10 BRIAN DWYER: Yes. 11 MARK COOMBES: And maybe you can 12 comment a little bit on this, but in your view, 13 what is the goal of trial running? 14 Trial running is to make BRIAN DWYER: 15 sure that the system operates the way you are 16 expecting. 17 MARK COOMBES: All right, in terms 18 of -- is that in terms of the vehicle performance 19 or just the whole system generally? 20 BRIAN DWYER: So I think vehicle 21 performance is a key part of that, but certainly 22 through trial running you are testing the capacity 23 of the signal system. You are testing the capacity 24 of the power system. You are ensuring that the 25 kind of support mechanisms like the Control Centre

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1	have the ability to run the system and interact
2	with the system the way you are expecting.
3	So yeah, vehicles are certainly a
4	critical part of it, but I think it is far more
5	than that.
6	MARK COOMBES: And did you have any
7	sense of what criteria were being developed for
8	trial running? Were you ever asked to comment
9	specifically on trial running criteria as part of
10	your tasks?
11	BRIAN DWYER: That might be going back
12	to the PSOS, Mr. Coombes. I don't recall the
13	details of it, but again, my recollection is that
14	that was just a very robust process with regards
15	to, you know, failures in service and, you know,
16	headways, et cetera.
17	MARK COOMBES: Right. I guess my more
18	specific question is do you have any specific
19	recollections of being asked to evaluate trial
20	running criteria and sort of give commentary on it?
21	BRIAN DWYER: I don't.
22	MARK COOMBES: Okay. Any sense at that
23	time, and so this would be going into the early
24	2019 period to I suppose the end of your
25	involvement with the project, what was the sense

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1	from and maybe you can comment on if you were
2	involved in it. Was there a perception that there
3	was a lot of pressure to get the system into
4	service? What was the sort of maybe you can
5	comment on the environment as you experienced it
6	then.
7	BRIAN DWYER: Yeah, I would want
8	to I could give you my recollection. Certainly
9	there was there is always pressure with a public
10	project about getting it into service. I was
11	always duly impressed by the fact that the City had
12	no interest in pardon me, the City had every
13	intention of holding the contractor to having the
14	system prepared before they were looking to run it.
15	MARK COOMBES: Right, and I suppose
16	what did that look like? If the City was sort of
17	holding them to that, what was the City doing to do
18	that? Do you know what that was?
19	BRIAN DWYER: Successful trial running.
20	MARK COOMBES: And what that might have
21	translated into in terms of how the City was
22	putting that I don't know if putting pressure on
23	the contractor is the right way to put it, but how
24	was the City sort of exerting that desire to get
25	that system into operation? What was that looking

1 like maybe on the ground, if you have any 2 recollection of that? 3 BRIAN DWYER: You know, I think the 4 whole idea of the IAT, Mr. Coombes, and you know, 5 the contractor or consortium, whatever you would 6 want to call the group, coming in and chatting about their efforts to move things forward, that 7 8 certainly shows the City's resolve to get the 9 system up and running, I think. 10 And you know, we are all human beings. 11 I think anybody who was coming in to meetings on a 12 daily or weekly basis and their entity isn't, you 13 know, meeting the expectations of the client, that 14 is certainly pressure, in my opinion, and that is 15 an opinion statement, obviously. 16 MARK COOMBES: Sure. I think now might 17 be a good time for us to take the morning break, so if we can maybe just ask if Mr. O'Brien has any 18 19 follow-up questions for anything I have asked the 20 witness so far? 21 MICHAEL O'BRIEN: I may. It may make 22 sense, Mr. Coombes, if we do take the break, that I 23 will look at my notes and if now is the time you 24 would like me to ask any follow-up questions, I'll 25 do so when we return from the break.

1	MARK COOMBES: Okay. And, Mr. Harland,
2	any questions before the break?
3	FRASER HARLAND: Maybe just a couple,
4	actually.
5	Mr. Dwyer, you mentioned near the
6	beginning of or closer to the beginning of the
7	interview that your draft for the PSOS related to
8	the safety and security portion was reduced a great
9	deal from what you had drafted.
10	Do you have a recollection of some of
11	the things that you had drafted that were removed
12	from the PSOS?
13	BRIAN DWYER: In detail, Mr. Harland, I
14	don't.
15	FRASER HARLAND: Did it raise concerns
16	for you about key things that in your view should
17	be part of a PSOS or should be part of what an
18	operator is requiring that were no longer part of
19	the Project Agreement?
20	BRIAN DWYER: I would say no,
21	Mr. Harland, because the discussion of kind of the
22	model was that it is not as if the expectation
23	would be that some of this would not be part of the
24	project. It is just the model set up was that the
25	consortium would develop that. It wouldn't be

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1	dictated in a prescriptive manner.
2	FRASER HARLAND: Okay, and then sort of
3	similar questions related to the SMS policy that
4	you discussed.
5	BRIAN DWYER: Uhm-hmm.
6	FRASER HARLAND: You also said that you
7	had provided a number of suggestions or a draft
8	that wasn't fully reflected in the actual SMS
9	policy. Do you have any recollection of the
10	difference between your proposals and the document
11	that the City ended up with?
12	BRIAN DWYER: I don't.
13	FRASER HARLAND: Okay. And again, did
14	you have concerns there about the ultimate SMS
15	policy and any things that you thought, you know,
16	in an ideal world they would have 'x', 'y' or 'z'
17	and those aren't actually reflected there?
18	BRIAN DWYER: I don't recall having
19	concerns about what didn't make it into the policy,
20	Mr. Harland, and I guess I would say as a
21	consultant, you are providing your subject matter
22	expertise as best you can. In my humble opinion,
23	you'll never know the agency as well as the folks
24	who work there. So although, you know, you may
25	come up with some suggestions, they are the folks

1 who are going to have to live with that and kind of 2 implement that, and I think they have a better idea 3 of how they can actually incorporate safety into 4 their system than you may. 5 FRASER HARLAND: Okay. And we have 6 heard from at least one witness that the SMS policy 7 looked more like something that would be used for 8 bus operation and not for a rail operation. 9 Do you have any comment on that? Were 10 they translating something they would have been 11 using for buses to trains, or do you feel like they 12 created a sufficient policy for a rail network, 13 which is obviously what was needed for this 14 project? 15 I would say they created BRIAN DWYER: 16 a policy that was sufficient for rail, and my 17 recollection is that Ron Hopkins, who at the time 18 was -- pardon me, I hope I have his name right. 19 Jim Hopkins, pardon me, Jim Hopkins was the Chief 20 Safety Officer. Jim had some my recollection is 21 some really good rail experience and mining 22 I don't recall that there was a great experience. 23 deal used that was kind of bus-related. 24 So no, without looking at 25 documentation, Mr. Harland, I don't know that I

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1	could say, but I don't recall thinking that this
2	looked like a document that was better suited for
3	bus.
4	FRASER HARLAND: Okay, and then a last
5	question related to trial running. You said that
6	it was quite prescriptive in the Project Agreement.
7	One of the things that was set out in the Project
8	Agreement was that there would be a twelve-day
9	period, and we have heard that other than that
10	length of time, there wasn't a lot prescribed.
11	Do you have a comment on whether that
12	is a sufficient period of time, in your experience,
13	to trial run a brand new system like this?
14	BRIAN DWYER: I wouldn't have had
15	experience specific to kind of opening up a brand
16	new system. At that point with trial running, I do
17	think twelve-day trial running with the criteria
18	they had in there was a very robust process.
19	FRASER HARLAND: I think those were my
20	follow-up questions for the moment, so we can go
21	off record.
22	[Discussion Off The Record.]
23	RECESSED AT 10:26 A.M.
24	RESUMED AT 10:38 A.M.
25	MARK COOMBES: So, Mr. Dwyer, I just

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1 want to get your view. I mean, one of the reasons that this Commission exists is because, you know, 2 3 there have been certain issues with the performance 4 of the system, and our terms of reference have sort 5 of lumped those together as what we are calling 6 breakdowns and derailments. 7 Do you have a sense based on anything 8 you saw during your time on the project of what 9 might have led to those issues that the system 10 experienced after it went into revenue service? 11 Anything that sticks out in your mind as something 12 that might have contributed to issues that the 13 system faced? 14 BRIAN DWYER: Mr. Coombes, I haven't 15 followed the roll-out of the system, if you will. 16 I am actually just quite busy with kind of work and 17 life, so I would say no. 18 MARK COOMBES: And so I'll follow up 19 with this question, but you know, I assume your 20 answer might be no, but feel free to tell me. 21 One of the Commissioner's mandates is 22 to -- and the Commission's mandate generally is to 23 give recommendations moving forward as to either 24 processes or specific things that could be 25 implemented to prevent issues like this that the

1 system experienced from happening in the future. 2 Would you have any specific 3 recommendations or even general recommendations 4 based on your experience with the project as to how 5 things were done that could be done differently or 6 maybe improved upon? Do you have any commentary in 7 that regard? 8 BRIAN DWYER: I would say no. 9 MARK COOMBES: Mr. Harland, any 10 follow-up? 11 FRASER HARLAND: Just one line of 12 inquiry that occurred to me over the break. 13 Mr. Dwyer, one of the issues that the 14 trains experienced was a sort of higher than 15 expected level of wheel flats, and we have heard 16 from some witnesses that the likely explanation for 17 this is that the operator during bad weather was 18 operating the trains at too high of a speed and 19 that they had multiple speed profiles available to 20 them but were using the highest speed even in bad 21 weather. 22 Do you have a comment or any sense, 23 given your time on the project and your time on the 24 operator, as to why the operator might not have 25 been aware of this issue or how that issue may have

1	arisen?
2	BRIAN DWYER: I don't, Mr. Harland.
3	FRASER HARLAND: Okay. I think that is
4	it for me.
5	So, Mr. O'Brien?
6	MICHAEL O'BRIEN: Mr. Dwyer, you were
7	asked about your role in developing the PSOS; do
8	you recall that?
9	BRIAN DWYER: Yes, sir.
10	MICHAEL O'BRIEN: And you testified
11	that you played a role in developing the safety and
12	security section of the PSOS; is that correct?
13	BRIAN DWYER: Correct.
14	MICHAEL O'BRIEN: In addition to
15	developing that section or in addition to
16	contributing to the development of that section of
17	the PSOS, was part of your role to review the
18	entire PSOS from a safety and security perspective?
19	BRIAN DWYER: No.
20	MICHAEL O'BRIEN: You testified that
21	vehicle availability was an issue; do you recall
22	that?
23	BRIAN DWYER: I do.
24	MICHAEL O'BRIEN: In response to a
25	question about vehicle availability relating to

1 revenue service and training and testing, you 2 commented that one leads to the other; do you 3 recall that exchange? 4 BRIAN DWYER: I do. 5 MICHAEL O'BRIEN: To confirm, having 6 left STV in July 2019, you weren't involved in the 7 project when it went into revenue service? 8 BRIAN DWYER: I was not. 9 MICHAEL O'BRIEN: Were you involved in 10 the decision to put the system into revenue 11 service? 12 BRIAN DWYER: I was not. 13 With respect to trial MICHAEL O'BRIEN: 14 running, can you clarify whether you participated 15 in trial running? 16 BRIAN DWYER: I did not. 17 MICHAEL O'BRIEN: Did you participate 18 in preparing for trial running? 19 That may be a difficult BRIAN DWYER: 20 question to answer, Mr. O'Brien. I guess leading 21 up -- you know, there is probably a great deal of 22 steps that -- you know, it is almost like every 23 action everybody is taking is preparing for trial 24 running, I quess, with regards to, hey, 25 trial -- pardon me, I don't want to be flippant

1 here. 2 I did not participate in preparing for 3 trial running if by that question you are talking 4 specifically that, hey, we are starting trial 5 running - and I am using a random date, 6 Mr. O'Brien - on August 1st and this is July 27th 7 and we are getting our ducks in order and the 8 provisions ready for kind of next week, if you 9 will. 10 I hope that makes sense. That was 11 quite a rambling answer, my apologies. 12 MICHAEL O'BRIEN: You testified that 13 the trial running specifications -- or you 14 testified to the trial running specifications; do 15 you recall that? 16 You are on mute, sir. 17 Terribly sorry. BRIAN DWYER: 18 I believe I testified to the fact that 19 I thought my recollection of the trial running 20 provisions were they were pretty strict. 21 MICHAEL O'BRIEN: And so I quess my 22 question is did you ever read those provisions with 23 a view to advising OC Transpo on trial running or 24 participating in trial running yourself? 25 BRIAN DWYER: No.

1	MICHAEL O'BRIEN: Those are all the
2	questions that I have for you, Mr. Dwyer. Thank
3	you.
4	BRIAN DWYER: Certainly.
5	MARK COOMBES: I have no further
6	questions arising out of your Counsel's questions,
7	Mr. Dwyer, unless Mr. Harland does.
8	FRASER HARLAND: No, none from me,
9	thank you.
10	MARK COOMBES: Okay, I think that can
11	conclude the interview, so we can go off record.
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13	Adjourned at 10:44 a.m.
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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
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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.
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