



August 23, 2019

Altus Ref: 100224

City of Ottawa
180 Elgin Street, Suite 601
Ottawa, ON, K2P 2P7

Rideau Transit Group Partnership
Confederation Line
1545 Carling Avenue, Suite 406
Ottawa, ON K1Z 8P9

Attn: Michael Morgan (City Representative)

Attn: Peter Lauch (Project Co Representative)

Dear Sirs,

Re: The Confederation Line Project (Ottawa Light Rail Transit Project)
Validation of Trial Running Acceptance

Pursuant to Schedule 14, Commissioning, Section 1.5 (e), the Integrated Revenue Service Availability Testing/Trial Running was conducted by Project Co from July 29, 2019 to August 22, 2019. Trial Running was reviewed on a day by day basis by the Trial Running Review Team (TRRT) in accordance with the Trial Running Test Procedure (submitted as a final document on July 29, 2019). The Trial Running results were reviewed by the TRRT on a daily basis with the preparation of the Trial Running Scorecard and the results agreed and signed off by the members of the TRRT. The Independent Certifier would make a final decision on the results of the day and determine whether the day was a Pass, Repeat or Restart, in accordance with the criteria in the Trial Running Test Procedure.

Pursuant to Schedule 14, Commissioning, Section 1.5 (e) (iii) (B), based on the attached Trial Running Scorecards for 12 consecutive days with the result of Pass, this letter shall serve as validation of the Trial Running Acceptance.

We trust the above and enclosed documentation is satisfactory. Please contact the undersigned with any clarifications.

Yours truly,

ALTUS GROUP LIMITED

PP

Per: Monica Sechiari, P. Eng
Associate Director, IC Services

Per: Jennifer Fitzpatrick, PQS
Senior Cost Consultant

Encl.



Appendix A – TRRT Conclusion of Trial Running Statement



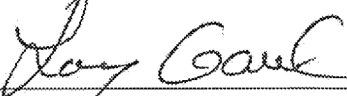

TRRT Conclusion of Trial Running Statement

Pursuant to Schedule 14, Commissioning, Section 1.5 (e), the Integrated Revenue Service Availability Testing/Trial Running was conducted July 29, 2019 to August 22, 2019. Trial Running was reviewed on a day by day basis by the Trial Running Review Team (TRRT). Testing was carried out in accordance with the Trial Running Test Procedure by exercising the Confederation Line system at full functionality.

As peak service performance was achieved over several days, the TRRT agreed to reduce the peak service fleet size to 13 from 15 trains to accommodate a revised Service Plan as agreed to by the Parties. Additionally the TRRT agreed to apply the Trial Running criteria as stated in RFI-O-266. As such, it was agreed that the Average Aggregate Vehicle Kilometer Ratio (AAVKR), would result in a "Pass" with the achievement of an AAVKR of 96% or higher over 9 of 12 days (evaluated over a 12-day moving window of "passing" days) and no three consecutive days below 94%.

Based on the above, and the attached Trial Running Scorecards, the TRRT has formed the opinion that the Trial Running requirements of the Project Agreement have been satisfied.

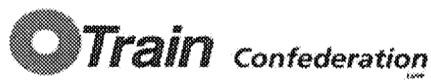
Date: 23rd August 2019

Name	Company	Signature
Troy Charter	OCT	
LARRY GAUL	OCT	
RICHARD HOLDER	OTC	
Frank Jacobs	RTM	
Kyle Campbell	Altus Group	
PETER LAUCH	RTG	
MATTHEW SLADE	OLRTC	
William Allan	OLRTC	



Appendix B – Trial Running Scorecards and Summary





Trial Running Scorecard (Final Version Rev 06)	
Date:	Monday, July 29th, 2019
Trial Running Day # :	1

OVERALL FAIL

Comments and IMIRS Calculations Summary

Safety Pass

Operational
 Travel Time (ATO Mode) 23 mins Fail 26:00:00

Weekday Headway 3 out of 4 required for pass Fail

- 1 Morning westbound – Arrivals at Lees
 Between 06:45:00 and 08:45:00 average headway 3 min 25s = 35 Trains
 Pass Ratio = 33 Trains 94% Pass
- 2 Morning eastbound – Arrivals at Pimisi
 Between 06:45:00 and 08:45:00 average headway 3 min 25s 94% = 33 Trains
 Pass Ratio = 33 Trains 94% Pass
- 3 Afternoon westbound – Arrivals at Rideau
 Between 15:00:00 and 18:00:00 average headway 4 min 00s = 45 Trains
 Pass Ratio = 42 Trains 93% Fail
- 4 Afternoon eastbound – Arrivals at Lyon
 Between 15:00:00 and 18:00:00 average headway 4 min 00s = 45 Trains
 Pass Ratio = 42 Trains 93% Fail

Scheduled No. Trains	Actual No. Trains	Ratio %
35	36	102.9%
35	35	100.0%
45	34	75.6%
45	31	68.9%

Maintenance Delivery
 Maintenance practices Pass
 Demonstration of IMIRS process Pass

Vehicle Availability Aggregate Vehicle Km Availability Ratio (AVKR)
 Ratio
 AVKR (minimum daily average) 90% Fail
 AVKR (average over 12 days) 98% Fail

AVKR Daily		
Scheduled KM	Actual KM	AVKR Ratio %
12,217	10,450	85.5%
12,217	10,471	85.7%

Station Availability Ratio
 Availability 99.7% Fail

ASAX Daily		
Scheduled Service Hours	Actual Hours	ASAX Ratio %
269.53	258.93	96.1%

Customer Systems & Other Major System Ratio
 Traction Power 99.5% Pass
 Passenger Announcement System 99.5% Pass
 Passenger Information System 99.5% Fail
 Fare Control Gates 99.5% Pass
 Ticket Vending Machines 99.5% Pass
 CCTV Cameras 99.5% Fail
 Tunnel Ventilation System 99.5% Pass
 Station Lighting 99.5% Pass
 P25 Radio 99.5% Pass
 Fire Monitoring & Suppression 99.5% Fail

205	205	100.0%
269.53	269.53	100.0%
269.53	264.63	98.2%
269.53	269.53	100.0%
269.53	269.53	100.0%
269.53	122.63	45.5%
143.5	143.5	100.0%
269.53	269.53	100.0%
269.53	269.53	100.0%
269.53	256.23	95.1%

Name	Company	Signature
Peter Lauch	RTG	
	RTM	
	CC Transpo	
LARRY GAUL	" "	
WILLIAM ALMAN	CC ORCA	
RICHARD HOLDER	OTC	
Kyle Campbell	Altus Group	
Samantha Burke	OTC	



Trial Running Scorecard (Final Version Rev 06)	
Date:	Tuesday, July 30th, 2019
Trial Running Day # :	1

Overall Pass/Repeat/Restart

Repeat

Safety Pass

Operational
 Travel Time (ATO Mode) 23 mins Fail

AM	PM	Average
23:00:00	23:03:00	23:01:50

Weekday Headway 3 out of 4 required for pass Fail

1 Morning westbound – Arrivals at Lees
 Between 06:45:00 and 08:45:00 average headway 3 min 25s = 35 Trains
 Pass Ratio = 33 Trains 94%

Fail

Scheduled No. Trains	Actual No. Trains	Ratio %
35	24	68.6%

2 Morning eastbound – Arrivals at Pimisi
 Between 06:45:00 and 08:45:00 average headway 3 min 25s 94% = 33 Trains
 Pass Ratio = 33 Trains 94%

Fail

35	25	71.4%
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3 Afternoon westbound – Arrivals at Rideau
 Between 15:00:00 and 18:00:00 average headway 4 min 00s = 45 Trains
 Pass Ratio = 42 Trains 93%

Fail

45	37	82.2%
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4 Afternoon eastbound – Arrivals at Lyon
 Between 15:00:00 and 18:00:00 average headway 4 min 00s = 45 Trains
 Pass Ratio = 42 Trains 93%

Fail

45	38	84.4%
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Maintenance Delivery
 Maintenance practices Fail
 Demonstration of IMIRS process Pass

Vehicle Availability	Aggregate Vehicle Km Availability Ratio (AVKR)	Ratio
	AVKR (minimum daily average)	90%
	AVKR (average over 12 days)	98%

AVKR Daily		
Scheduled KM	Actual KM	AVKR Ratio %
12,217	10,564	86.5%
N/A	N/A	N/A

Station	Availability	Ratio
	Availability	99.7%

ASAX Daily		
Scheduled Service Hours	Actual Hours	ASAX Ratio %
269.53	243.35	90%

Customer Systems & Other Major System	Ratio
Traction Power	99.5%
Passenger Announcement System	99.5%
Passenger Information System	99.5%
Fare Control Gates	99.5%
Ticket Vending Machines	99.5%
CCTV Cameras	99.5%
Tunnel Ventilation System	99.5%
Station Lighting	99.5%
P25 Radio	99.5%
Fire Monitoring & Suppression	99.5%

214.2	214.2	100.0%
269.53	233.83	86.8%
269.53	249.03	92.4%
269.53	269.53	100.0%
269.53	269.53	100.0%
269.53	106.63	39.6%
143.5	143.5	100.0%
269.53	269.53	100.0%
269.53	269.53	100.0%
269.53	248.73	92.3%

Name	Company	Signature
Claude Jacobs	RTM	
MATTHEW SLADE	OLRTC	
Kyle Campbell	Altus Group	
LARRY GAUL	OCT	
Troy Charter	OCT	
WILLIAM ALLMAN	OLRTC	
PETER LAUCH	RTG	
RICHARD HOLDER	OTC	



Trial Running Scorecard (Rev 07)	
Date:	Wednesday, July 31st, 2019
Trial Running Day # :	3

Overall Pass/Repeat/Restart

Restart

Safety PASS

Operational

AM	PM	Average
00:22:50	00:27:08	0:24:59

Travel Time (ATO Mode) 23 mins

Weekday Headway 3 out of 4 required for pass

- 1 Morning westbound – Arrivals at Lees
Between 06:45:00 and 08:45:00 average headway 3 min 25s = 35 Trains
Pass Ratio = 33 Trains 94%
- 2 Morning eastbound – Arrivals at Pimisi
Between 06:45:00 and 08:45:00 average headway 3 min 25s 94% = 33 Trains
Pass Ratio = 33 Trains 94%
- 3 Afternoon westbound – Arrivals at Rideau
Between 15:00:00 and 18:00:00 average headway 4 min 00s = 45 Trains
Pass Ratio = 42 Trains 93%
- 4 Afternoon eastbound – Arrivals at Lyon
Between 15:00:00 and 18:00:00 average headway 4 min 00s = 45 Trains
Pass Ratio = 42 Trains 93%

Scheduled No. Trains	Actual No. Trains	Ratio %
35	25	71.4%
35	23	65.7%
45	25	55.6%
45	25	55.6%

Maintenance Delivery PASS
Maintenance practices
Demonstration of IMIRS process

Vehicle Availability **Aggregate Vehicle Km Availability Ratio (AVKR)**

	Ratio
AVKR (minimum daily average)	90%
AVKR (average over 12 days)	98%

AVKR Daily		
Scheduled KM	Actual KM	AVKR Ratio %
12,217	9,027	73.9%
N/A	N/A	N/A

Station **Availability** 99.7%

ASAX Daily		
Scheduled Service Hours	Actual Hours	ASAX Ratio %
269.62	256.62	95%
214.2	214.2	100.0%
269.62	186.32	69.1%
269.62	166.61	61.8%
269.62	269.62	100.0%
269.62	0	0.0%
269.62	269.62	100.0%
269.62	269.62	100.0%
269.62	269.62	100.0%
269.62	249.12	92.4%

Customer Systems & Other Major System **Ratio**

Traction Power	99.5%
Passenger Announcement System	99.5%
Passenger Information System	99.5%
Fare Control Gates	99.5%
Ticket Vending Machines	99.5%
CCTV Cameras	99.5%
Tunnel Ventilation System	99.5%
Station Lighting	99.5%
P25 Radio	99.5%
Fire Monitoring & Suppression	99.5%

Name	Company	Signature
Claude Jacobs	RTM	
MATTHEW SLADE	OLRTC	
PETER LAUCH	RTG	
RICHARD WOLPER	OTC	
Troy Chantre	OCT	
WILL ALMAN	OLRTC	
Kyle Campbell	Altus	



Trial Running Scorecard (Rev 07)	
Date:	Thursday 1st August 2019
Trial Running Day # :	PAUSED

Overall Pass/Repeat/Restart

PAUSED

Safety PASS

Operational Time 10:00am - 12:00 noon
Travel Time (ATO Mode) 23 mins PASS 00:22:23

Weekday Headway 3 out of 4 required for pass N/A * Weekend timetable not applicable

- 1 Morning westbound – Arrivals at Lees
Between 06:45:00 and 08:45:00 average headway 3 min 25s = 35 Trains
Pass Ratio = 33 Trains 94%
- 2 Morning eastbound – Arrivals at Pimisi
Between 06:45:00 and 08:45:00 average headway 3 min 25s 94% = 33 Trains
Pass Ratio = 33 Trains 94%
- 3 Afternoon westbound – Arrivals at Rideau
Between 15:00:00 and 18:00:00 average headway 4 min 00s = 45 Trains
Pass Ratio = 42 Trains 93%
- 4 Afternoon eastbound – Arrivals at Lyon
Between 15:00:00 and 18:00:00 average headway 4 min 00s = 45 Trains
Pass Ratio = 42 Trains 93%

N/A
N/A
N/A
N/A

Scheduled No. Trains	Actual No. Trains	Ratio %
35		
35		
45		
45		

Maintenance Delivery PASS
Maintenance practices
Demonstration of IMIRS process FAIL

Vehicle Availability **Aggregate Vehicle Km Availability Ratio (AVKR)**
 Ratio
 AVKR (minimum daily average) 90%
 AVKR (average over 12 days) 98%

AVKR Daily		
Scheduled KM	Actual KM	AVKR Ratio %
8,146	7,620	93.5%

Station **Availability** Ratio
 Availability 99.7%

PASS

Customer Systems & Other Major System **Ratio**
 Traction Power 99.5%
 Passenger Announcement System 99.5%
 Passenger Information System 99.5%
 Fare Control Gates 99.5%
 Ticket Vending Machines 99.5%
 CCTV Cameras 99.5%
 Tunnel Ventilation System 99.5%
 Station Lighting 99.5%
 P25 Radio 99.5%
 Fire Monitoring & Suppression 99.5%

PASS
FAIL
FAIL
PASS
PASS
FAIL
PASS
PASS
PASS
PASS

ASAX Daily		
Scheduled Service Hours	Actual Hours	ASAX Ratio %
229.06	229.06	100%
167.8	167.8	100.0%
229.06	151.56	66.2%
229.06	123.56	53.9%
229.06	229.06	100.0%
229.06	229.06	100.0%
229.06	0	0.0%
119	119	100.0%
229.06	229.06	100.0%
229.06	229.06	100.0%
229.06	229.06	100.0%

Name	Company	Signature
MATTHEW SLADE	OLRTC	
LARRY GAUL	OCT	
Troy Chentv	OCT	
PETER LAUCH	RTG	
Claude Jacob	RTM	
RICHARD HOLDER	OTC	
Kyle Campbell	Altas	



Trial Running Scorecard (Rev 07)	
Date:	Friday, August 2nd, 2019
Trial Running Day # :	5

Overall Pass/Repeat/Restart

~~PAUSED~~ REPEAT

Handwritten initials and marks: (CG), KCC, R, B

Safety

PASS

Operational

Travel Time (ATO Mode) 23 mins

Pass

AM	PM	Average
		0:22:33

Weekday Headway 3 out of 4 required for pass

- 1 Morning westbound – Arrivals at Lees
Between 06:45:00 and 08:45:00 average headway 3 min 25s = 35 Trains
Pass Ratio = 33 Trains 94%
- 2 Morning eastbound – Arrivals at Pimisi
Between 06:45:00 and 08:45:00 average headway 3 min 25s 94% = 33 Trains
Pass Ratio = 33 Trains 94%
- 3 Afternoon westbound – Arrivals at Rideau
Between 15:00:00 and 18:00:00 average headway 4 min 00s = 45 Trains
Pass Ratio = 42 Trains 93%
- 4 Afternoon eastbound – Arrivals at Lyon
Between 15:00:00 and 18:00:00 average headway 4 min 00s = 45 Trains
Pass Ratio = 42 Trains 93%

Scheduled No. Trains	Actual No. Trains	Ratio %
35		0.0%
35		0.0%
45		0.0%
45		0.0%

Maintenance Delivery

Maintenance practices
Demonstration of IMIRS process

PASS
PASS

Vehicle Availability Aggregate Vehicle Km Availability Ratio (AVKR)

	Ratio
AVKR (minimum daily average)	90%
AVKR (average over 12 days)	98%

Pass
N/A

AVKR Daily		
Scheduled KM	Actual KM	AVKR Ratio %
8,146	7,785	95.6%

Station	Ratio
Availability	99.7%

Pass

Customer Systems & Other Major System	Ratio
Traction Power	99.5%
Passenger Announcement System	99.5%
Passenger Information System	99.5%
Fare Control Gates	99.5%
Ticket Vending Machines	99.5%
CCTV Cameras	99.5%
Tunnel Ventilation System	99.5%
Station Lighting	99.5%
P25 Radio	99.5%
Fire Monitoring & Suppression	99.5%

PASS
Fail
Fail
Pass
Pass
Fail
PASS
Pass
Pass
Pass

ASAX Daily		
Scheduled Service Hours	Actual Hours	ASAX Ratio %
228.9	228.90	100%
167.8	167.8	100.0%
228.9	174.51	76.2%
228.9	137.32	60.0%
228.9	228.9	100.0%
228.9	228.9	100.0%
228.9	0	0.0%
108.5	108.5	100.0%
228.9	228.9	100.0%
228.9	228.9	100.0%
228.9	228.9	100.0%

Name	Company	Signature
MATTHEW SLADE	OLRTC	<i>[Signature]</i>
Troy Chamber	OCT	<i>[Signature]</i>
LARRY GAUL	OCT	<i>[Signature]</i>
PETER LAUCH	RTG	<i>[Signature]</i>
Kyle Campbell	Altus Group	<i>[Signature]</i>
TOM PATE	RTM	<i>[Signature]</i>
RICHARD HOLDER	OTC	<i>[Signature]</i>



Trial Running Scorecard (Rev 07)	
Date:	Saturday, August 3rd, 2019
Trial Running Day # :	1

Overall Pass/Repeat/Restart

PASS

Safety PASS

Operational PASS

AM	PM	Average
		22:51:00

Travel Time (ATO Mode) 23 mins

Weekday Headway 3 out of 4 required for pass

- 1 Morning westbound – Arrivals at Lees
Between 06:45:00 and 08:45:00 average headway 3 min 25s = 35 Trains
Pass Ratio = 33 Trains 94%
- 2 Morning eastbound – Arrivals at Pimisi
Between 06:45:00 and 08:45:00 average headway 3 min 25s 94% = 33 Trains
Pass Ratio = 33 Trains 94%
- 3 Afternoon westbound – Arrivals at Rideau
Between 15:00:00 and 18:00:00 average headway 4 min 00s = 45 Trains
Pass Ratio = 42 Trains 93%
- 4 Afternoon eastbound – Arrivals at Lyon
Between 15:00:00 and 18:00:00 average headway 4 min 00s = 45 Trains
Pass Ratio = 42 Trains 93%

Scheduled No. Trains	Actual No. Trains	Ratio %
35		0.0%
35		0.0%
45		0.0%
45		0.0%

Maintenance Delivery FAIL
 Maintenance practices PASS
 Demonstration of IMIRS process

Handwritten notes: kb, lg, etc.

Vehicle Availability	Aggregate Vehicle Km Availability Ratio (AVKR)	Ratio
AVKR (minimum daily average)		90%
AVKR (average over 12 days)		98%

AVKR Daily		
Scheduled KM	Actual KM	AVKR Ratio %
10,802	10,130	93.8%
10,411		#DIV/0!

Station	Availability	Ratio
		99.7%

ASAX Daily		
Scheduled Service Hours	Actual Hours	ASAX Ratio %
266.27	266.27	100%

Customer Systems & Other Major System	Ratio
Traction Power	99.5%
Passenger Announcement System	99.5%
Passenger Information System	99.5%
Fare Control Gates	99.5%
Ticket Vending Machines	99.5%
CCTV Cameras	99.5%
Tunnel Ventilation System	99.5%
Station Lighting	99.5%
P25 Radio	99.5%
Fire Monitoring & Suppression	99.5%

PASS	217.8	217.8	100.0%
PASS	266.27	266.27	100.0%
PASS	266.27	266.27	100.0%
PASS	266.27	266.27	100.0%
PASS	266.27	266.27	100.0%
FAIL	266.27	262.6	98.6%
PASS	143.5	143.5	100.0%
PASS	266.27	266.27	100.0%
PASS	266.27	266.27	100.0%
PASS	266.27	266.27	100.0%

Name	Company	Signature
MATTHEW SLADE	OLRTC	<i>[Signature]</i>
LARRY GAUL	OCT	<i>[Signature]</i>
<i>[Signature]</i> Troy Chuter	OCT	<i>[Signature]</i>
PETER LAUCH	RTG	<i>[Signature]</i>
RICHARD WOLPER	OTC	<i>[Signature]</i>
Kyle Campbell	Altus Group	<i>[Signature]</i>
TOM PATE	RTM	<i>[Signature]</i>

- Notes:
- 1) Vehicle KMs continue to be validated by Deloitte during Trial Running, and may be subject to change as a result of the Deloitte review
 - 2) Ticket Vending Machines to be reviewed for power supplies and installation completeness
 - 3) The two 'fail' status above relate to the quality of work orders in regards to the descriptions for close out and timeliness for closeout



Trial Running Scorecard (Rev 07)	
Date:	Sunday, August 4th, 2019
Trial Running Day # :	2

Overall Pass/Repeat/Restart

PASS

Safety PASS

Operational PASS

Travel Time (ATO Mode) 23 mins

AM	PM	Average
		22:36:00

Weekday Headway 3 out of 4 required for pass

- 1 Morning westbound – Arrivals at Lees
Between 06:45:00 and 08:45:00 average headway 3 min 25s = 35 Trains
Pass Ratio = 33 Trains 94%
- 2 Morning eastbound – Arrivals at Pimisi
Between 06:45:00 and 08:45:00 average headway 3 min 25s 94% = 33 Trains
Pass Ratio = 33 Trains 94%
- 3 Afternoon westbound – Arrivals at Rideau
Between 15:00:00 and 18:00:00 average headway 4 min 00s = 45 Trains
Pass Ratio = 42 Trains 93%
- 4 Afternoon eastbound – Arrivals at Lyon
Between 15:00:00 and 18:00:00 average headway 4 min 00s = 45 Trains
Pass Ratio = 42 Trains 93%

Scheduled No. Trains	Actual No. Trains	Ratio %
35		0.0%
35		0.0%
45		0.0%
45		0.0%

Maintenance Delivery PASS

Maintenance practices
Demonstration of IMIRS process

Vehicle Availability PASS

Aggregate Vehicle Km Availability Ratio (AVKR)

	Ratio
AVKR (minimum daily average)	90%
AVKR (average over 12 days)	98%

AVKR Daily		
Scheduled KM	Actual KM	AVKR Ratio %
8,146	7,771	95.4%
7,814 - 50		#DIV/0!

Station PASS

Availability	Ratio
Availability	99.7%

ASAX Daily		
Scheduled Service Hours	Actual Hours	ASAX Ratio %
228.57	228.57	100%
167.8	167.8	100.0%
228.57	228.57	100.0%
228.57	222.07	97.2%
228.57	228.57	100.0%
228.57	228.57	100.0%
228.57	213.07	93.2%
108.5	108.5	100.0%
228.57	228.57	100.0%
228.57	228.57	100.0%
228.57	228.57	100.0%

Customer Systems & Other Major System PASS

	Ratio
Traction Power	99.5%
Passenger Announcement System	99.5%
Passenger Information System	99.5%
Fare Control Gates	99.5%
Ticket Vending Machines	99.5%
CCTV Cameras	99.5%
Tunnel Ventilation System	99.5%
Station Lighting	99.5%
P25 Radio	99.5%
Fire Monitoring & Suppression	99.5%

Name	Company	Signature
MATTHEW SLADE	ORRTC	<i>[Signature]</i>
LARRY GASC	OCT	<i>[Signature]</i>
Troy Charter	OCT	<i>[Signature]</i>
Gaude Jacobs	RTM	<i>[Signature]</i>
PETER LAUCH	RTG	<i>[Signature]</i>
RICHARD HOOPER	OTC	<i>[Signature]</i>
Kyle Campbell	Altus Group	<i>[Signature]</i>
WILL ALMAN	ORTC	<i>[Signature]</i>

- Notes:
- 1) Vehicle KMs continue to be validated by Deloitte during Trial Running, and may be subject to change as a result of the Deloitte review
 - 2) Ticket Vending Machines to be reviewed for power supplies and installation completeness
 - 3) The two 'fail' status above relate to 1 x PID at Blair, where there are 5 others. 7 CCTV at Bayview that do are not viewable at TOCC, but ARE viewable at YCC and BCC



Trial Running Scorecard (Rev 07)	
Date:	MONDAY, August 5th, 2019
Trial Running Day # :	3

Overall Pass/Repeat/Restart

PASS

Safety PASS

Operational
 Travel Time (ATO Mode) 23 mins PASS

AM	PM	Average
22:30:00	22:43:00	22:36:30

Weekday Headway 3 out of 4 required for pass PASS

- 1 Morning westbound – Arrivals at Lees
 Between 06:45:00 and 08:45:00 average headway 3 min 25s = 35 Trains
 Pass Ratio = 33 Trains 94% PASS
- 2 Morning eastbound – Arrivals at Pimisi
 Between 06:45:00 and 08:45:00 average headway 3 min 25s 94% = 33 Trains
 Pass Ratio = 33 Trains 94% PASS
- 3 Afternoon westbound – Arrivals at Rideau
 Between 15:00:00 and 18:00:00 average headway 4 min 00s = 45 Trains
 Pass Ratio = 42 Trains 93% PASS
- 4 Afternoon eastbound – Arrivals at Lyon
 Between 15:00:00 and 18:00:00 average headway 4 min 00s = 45 Trains
 Pass Ratio = 42 Trains 93% PASS

Scheduled No. Trains	Actual No. Trains	Ratio %
35	36	102.9%
35	35	100.0%
45	44	97.8%
45	44	97.8%

Maintenance Delivery
 Maintenance practices PASS
 Demonstration of IMIRS process PASS

Vehicle Availability	Aggregate Vehicle Km Availability Ratio (AVKR)	Ratio
AVKR (minimum daily average)		90%
AVKR (average over 12 days)		98%

AVKR Daily		
Scheduled KM	Actual KM	AVKR Ratio %
12,217	11,596	94.9%
12,178		#DIV/0!

15
 16
 17
 18
 19
 20
 21
 22
 23
 24
 25
 26
 27
 28
 29
 30
 31
 95-22

Station	Availability	Ratio
		99.7%

ASAX Daily		
Scheduled Service Hours	Actual Hours	ASAX Ratio %
269.73	269.73	100%
214.2	214.2	100.0%
269.73	269.73	100.0%
269.73	249.23	92.4%
269.73	269.73	100.0%
269.73	269.73	100.0%
269.73	249.03	92.3%
143.5	143.5	100.0%
269.73	269.73	100.0%
269.73	269.73	100.0%
269.73	269.73	100.0%

Customer Systems & Other Major System	Ratio
Traction Power	99.5%
Passenger Announcement System	99.5%
Passenger Information System	99.5%
Fare Control Gates	99.5%
Ticket Vending Machines	99.5%
CCTV Cameras	99.5%
Tunnel Ventilation System	99.5%
Station Lighting	99.5%
P25 Radio	99.5%
Fire Monitoring & Suppression	99.5%

Name	Company	Signature
MATTHEW SLADE	OLRTC	<i>[Signature]</i>
LARRY GAUL	OCT	<i>[Signature]</i>
Troy Chantr	OCT	<i>[Signature]</i>
Claude Jacob	RTM	<i>[Signature]</i>
PETER LAUCH	RTG	<i>[Signature]</i>
RICHARD HOLDER	OTC	<i>[Signature]</i>
Kyle Campbell	Altus Group	<i>[Signature]</i>
WILL ALMAN	OLRTC	<i>[Signature]</i>

1) Vehicle KMs continue to be validated by Deloitte during Trial Running, and may be subject to change as a result of the Deloitte review
 2) Ticket Vending Machines to be reviewed for power supplies and installation completeness
 3) The two 'fail' status above relate to 1 x PID at Blair, where there are 5 others. 7 CCTV at Bayview that do are not viewable at TOCC, but ARE viewable at YCC and BCC
 4) AVKR 12 day Average target is currently under review



Trial Running Scorecard (Rev 07)	
Date:	TUESDAY, August 6th, 2019
Trial Running Day # :	4

Overall Pass/Repeat/Restart

PASS

Safety PASS

Operational
 Travel Time (ATO Mode) 23 mins PASS

AM	PM	Average
22:40:00	22:48:00	22:44:00

Weekday Headway 3 out of 4 required for pass PASS

- 1 Morning westbound – Arrivals at Lees
 Between 06:45:00 and 08:45:00 average headway 3 min 25s = 35 Trains
 Pass Ratio = 33 Trains 94% PASS
- 2 Morning eastbound – Arrivals at Pimisi
 Between 06:45:00 and 08:45:00 average headway 3 min 25s 94% = 33 Trains
 Pass Ratio = 33 Trains 94% FAIL
- 3 Afternoon westbound – Arrivals at Rideau
 Between 15:00:00 and 18:00:00 average headway 4 min 00s = 45 Trains
 Pass Ratio = 42 Trains 93% PASS
- 4 Afternoon eastbound – Arrivals at Lyon
 Between 15:00:00 and 18:00:00 average headway 4 min 00s = 45 Trains
 Pass Ratio = 42 Trains 93% PASS

Scheduled No. Trains	Actual No. Trains	Ratio %
35	34	97.1%
35	17	48.6%
45	44	97.8%
45	44	97.8%

Maintenance Delivery
 Maintenance practices
 Demonstration of IMIRS process PASS

Vehicle Availability Aggregate Vehicle Km Availability Ratio (AVKR)
 Ratio
 AVKR (minimum daily average) 90% PASS
 AVKR (average over 12 days) 98%

AVKR Daily		
Scheduled KM	Actual KM	AVKR Ratio %
12,217.00	11,124	91.1%
12,178		#DIV/0!

Station Availability Ratio
 Availability 99.7% PASS

ASAX Daily		
Scheduled Service Hours	Actual Hours	ASAX Ratio %
270.63	270.63	100%

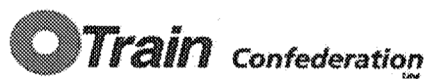
Customer Systems & Other Major System Ratio

Traction Power	99.5%
Passenger Announcement System	99.5%
Passenger Information System	99.5%
Fare Control Gates	99.5%
Ticket Vending Machines	99.5%
CCTV Cameras	99.5%
Tunnel Ventilation System	99.5%
Station Lighting	99.5%
P25 Radio	99.5%
Fire Monitoring & Suppression	99.5%

214.2	214.2	100.0%
270.63	270.63	100.0%
270.63	262.56	97.0%
270.63	270.63	100.0%
270.63	270.63	100.0%
270.63	262.46	97.0%
143.5	143.5	100.0%
270.63	270.63	100.0%
270.63	270.63	100.0%
270.63	270.63	100.0%

Name	Company	Signature
MATTHEW SLADE	BLRTC	
HARRY GAUL	OCT	
Troy Charter	OCT	
RICHARD HODDER	OTC	
Claude Jacobs	RTM	
Kyle Campbell	Altus Group	
PETER LAUCH	RTG	
WILL ALMAN	BLRTC	

1) Vehicle KMs continue to be validated by Deloitte during Trial Running, and may be subject to change as a result of the Deloitte review
 2) The two 'fail' status above relate to 1 x PID at Blair, where there are 5 others. 7 CCTV at Bayview that do are not viewable at TOCC, but ARE viewable at YCC and BCC
 3) AVKR 12 day Average target is currently under review



Trial Running Scorecard (Rev 07)	
Date:	Thursday, August 7th, 2019
Trial Running Day # :	WEDNESDAY

Overall Pass/Repeat/Restart

RESTART

Safety PASS

Operational
 Travel Time (ATO Mode) 23 mins FAIL

AM	PM	Average
(24:30)	(24:22)	(24:26)

Weekday Headway 3 out of 4 required for pass FAIL

1 Morning westbound – Arrivals at Lees
 Between 06:45:00 and 08:45:00 average headway 3 min 25s = 35 Trains
 Pass Ratio = 33 Trains 94% FAIL

Scheduled No. Trains	Actual No. Trains	Ratio %
35	32	91.4%

2 Morning eastbound – Arrivals at Pimisi
 Between 06:45:00 and 08:45:00 average headway 3 min 25s 94% = 33 Trains
 Pass Ratio = 33 Trains 94% FAIL

Scheduled No. Trains	Actual No. Trains	Ratio %
35	25	71.4%

3 Afternoon westbound – Arrivals at Rideau
 Between 15:00:00 and 18:00:00 average headway 4 min 00s = 45 Trains
 Pass Ratio = 42 Trains 93% PASS

Scheduled No. Trains	Actual No. Trains	Ratio %
45	43	95.6%

4 Afternoon eastbound – Arrivals at Lyon
 Between 15:00:00 and 18:00:00 average headway 4 min 00s = 45 Trains
 Pass Ratio = 42 Trains 93% FAIL

Scheduled No. Trains	Actual No. Trains	Ratio %
45	40	88.9%

Maintenance Delivery
 Maintenance practices FAIL
 Demonstration of IMIRS process PASS

Vehicle Availability	Aggregate Vehicle Km Availability Ratio (AVKR)	Ratio
	AVKR (minimum daily average)	90%
	AVKR (average over 12 days)	98%

AVKR Daily		
Scheduled KM	Actual KM	AVKR Ratio %
12,178.46	10,380	85.2%
		#DIV/0!

*Revised schedule KM based on new timetable

Station Availability 99.7% PASS

ASAX Daily		
Scheduled Service Hours	Actual Hours	ASAX Ratio %
269.54	269.54	100%

Customer Systems & Other Major System	Ratio	
Traction Power	99.5%	PASS
Passenger Announcement System	99.5%	PASS
Passenger Information System	99.5%	PASS
Fare Control Gates	99.5%	PASS
Ticket Vending Machines	99.5%	PASS
CCTV Cameras	99.5%	FAIL
Tunnel Ventilation System	99.5%	PASS
Station Lighting	99.5%	PASS
P25 Radio	99.5%	PASS
Fire Monitoring & Suppression	99.5%	PASS

Scheduled Service Hours	Actual Hours	ASAX Ratio %
214.2	214.2	100.0%
269.54	269.54	100.0%
269.54	269.54	100.0%
269.54	269.54	100.0%
269.54	269.54	100.0%
269.54	194.83	72.3%
143.5	143.5	100.0%
269.54	269.54	100.0%
269.54	269.54	100.0%
269.54	269.54	100.0%

Name	Company	Signature
MATTHEW SLADE	OLRTC	<i>[Signature]</i>
Troy Charter	OCT	<i>[Signature]</i>
Joe North rep. L. Gaul	CTP	<i>[Signature]</i>
RICHARD HOLDER	OTC	<i>[Signature]</i>
Gaude Jacob	RTM	<i>[Signature]</i>
Kyle Campbell	Altus Group	<i>[Signature]</i>
William Allman	OLRTC	<i>[Signature]</i>
PETER LAUCH	RTG	<i>[Signature]</i>

1) Vehicle KMs continue to be validated by Deloitte during Trial Running, and may be subject to change as a result of the Deloitte review
 2) AVKR 12 day Average target is currently under review



Trial Running Scorecard (Rev 07)	
Date:	Thursday, August 8th, 2019
Trial Running Day # :	XXXXXX

Overall Pass/Repeat/Restart

RESTART

Safety PASS

Operational

Travel Time (ATO Mode) 23 mins FAIL

AM	PM	Average
(24:09)	(23:28)	(23:48)

Weekday Headway 3 out of 4 required for pass FAIL

- 1 Morning westbound – Arrivals at Lees
Between 06:45:00 and 08:45:00 average headway 3 min 25s = 35 Trains
Pass Ratio = 33 Trains 94% FAIL
- 2 Morning eastbound – Arrivals at Pimisi
Between 06:45:00 and 08:45:00 average headway 3 min 25s 94% = 33 Trains
Pass Ratio = 33 Trains 94% FAIL
- 3 Afternoon westbound – Arrivals at Rideau
Between 15:00:00 and 18:00:00 average headway 4 min 00s = 45 Trains
Pass Ratio = 42 Trains 93% FAIL
- 4 Afternoon eastbound – Arrivals at Lyon
Between 15:00:00 and 18:00:00 average headway 4 min 00s = 45 Trains
Pass Ratio = 42 Trains 93% FAIL

Scheduled No. Trains	Actual No. Trains	Ratio %
35	32	91.4%
35	30	85.7%
45	41	91.1%
45	39	86.7%

Maintenance Delivery

Maintenance practices FAIL
 Demonstration of IMIRS process PASS

*Revised schedule KM based on new timetable

Vehicle Availability

Aggregate Vehicle Km Availability Ratio (AVKR)

	Ratio
AVKR (minimum daily average)	90%
AVKR (average over 12 days)	98%

FAIL

AVKR Daily		
Scheduled KM	Actual KM	AVKR Ratio %
12,178.46	10,351	85.0%
		#DIV/0!

Station

Availability 99.7% PASS

ASAX Daily		
Scheduled Service Hours	Actual Hours	ASAX Ratio %
269.54	269.54	100%
214.2	214.2	100.0%
269.54	269.54	100.0%
269.54	269.54	100.0%
269.54	269.54	100.0%
269.54	269.54	100.0%
269.54	269.54	100.0%
143.5	143.5	100.0%
269.54	269.54	100.0%
269.54	269.54	100.0%
269.54	269.54	100.0%

Customer Systems & Other Major System

	Ratio
Traction Power	99.5%
Passenger Announcement System	99.5%
Passenger Information System	99.5%
Fare Control Gates	99.5%
Ticket Vending Machines	99.5%
CCTV Cameras	99.5%
Tunnel Ventilation System	99.5%
Station Lighting	99.5%
P25 Radio	99.5%
Fire Monitoring & Suppression	99.5%

PASS
PASS
PASS
PASS
PASS
PASS
PASS
PASS
PASS
PASS
PASS

Name	Company	Signature
MATTHEW SLADE	OLRTC	<i>[Signature]</i>
Troy Charter	OCT	<i>[Signature]</i>
Joe North rep. L. Gao	CTP	<i>[Signature]</i>
RICHARD HOLZER	OTC	<i>[Signature]</i>
Claude Joubert	RTM	<i>[Signature]</i>
Kyle Campbell	Altus Group	<i>[Signature]</i>
PETER LAUCH	RTG	<i>[Signature]</i>
WILLIAM ALMAN	OLRTC	<i>[Signature]</i>

1) Vehicle KMs continue to be validated by Deloitte during Trial Running, and may be subject to change as a result of the Deloitte review
 2) AVKR 12 day Average target is currently under review



Trial Running Scorecard (Rev 07)	
Date:	Friday, August 9th, 2019
Trial Running Day # :	

Overall Pass/Repeat/Restart

PASS

Safety PASS

Operational
 Travel Time (ATO Mode) 23 mins PASS

AM	PM	Average
(22:57)	(22:56)	(22:56:30)

Weekday Headway 3 out of 4 required for pass PASS

1 Morning westbound – Arrivals at Lees
 Between 06:45:00 and 08:45:00 average headway 3 min 25s = 35 Trains
 Pass Ratio = 33 Trains 94%

PASS

Scheduled No. Trains	Actual No. Trains	Ratio %
35	36	102.9%

2 Morning eastbound – Arrivals at Pimisi
 Between 06:45:00 and 08:45:00 average headway 3 min 25s 94% = 33 Trains
 Pass Ratio = 33 Trains 94%

PASS

35	35	100.0%
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3 Afternoon westbound – Arrivals at Rideau
 Between 15:00:00 and 18:00:00 average headway 4 min 00s = 45 Trains
 Pass Ratio = 42 Trains 93%

PASS

45	44	97.8%
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4 Afternoon eastbound – Arrivals at Lyon
 Between 15:00:00 and 18:00:00 average headway 4 min 00s = 45 Trains
 Pass Ratio = 42 Trains 93%

PASS

45	45	100.0%
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Maintenance Delivery

Maintenance practices
 Demonstration of IMIRS process

PASS
 PASS

Handwritten notes and signatures

Vehicle Availability Aggregate Vehicle Km Availability Ratio (AVKR)

	Ratio
AVKR (minimum daily average)	90%
AVKR (average over 12 days)	98%

PASS

AVKR Daily		
Scheduled KM	Actual KM	AVKR Ratio %
12,951	12,034	92.9%
12,846.49	12,517	#DIV/0!

Handwritten notes and signatures

Station	Availability	Ratio
		99.7%

PASS

ASAX Daily		
Scheduled Service Hours	Actual Hours	ASAX Ratio %
277.94	277.94	100%

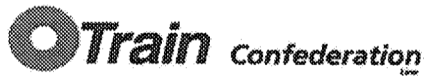
Customer Systems & Other Major System	Ratio
Traction Power	99.5%
Passenger Announcement System	99.5%
Passenger Information System	99.5%
Fare Control Gates	99.5%
Ticket Vending Machines	99.5%
CCTV Cameras	99.5%
Tunnel Ventilation System	99.5%
Station Lighting	99.5%
P25 Radio	99.5%
Fire Monitoring & Suppression	99.5%

PASS
 PASS
 PASS
 PASS
 PASS
 PASS
 PASS
 PASS
 PASS
 PASS
 PASS
 PASS

226.5	226.5	100.0%
277.94	277.94	100.0%
277.94	277.94	100.0%
277.94	277.94	100.0%
277.94	277.94	100.0%
277.94	277.94	100.0%
277.94	277.94	100.0%
150.5	147.93	98.3%
277.94	277.94	100.0%
277.94	277.94	100.0%
277.94	254.85	91.7%

Name	Company	Signature
LARRY GAUL	OCT	<i>[Signature]</i>
Duane D. Duquette	OCT	<i>[Signature]</i>
RICHARD HOLDER	OTC	<i>[Signature]</i>
WILL ALMAN	ORTEL	<i>[Signature]</i>
Kyle Campbell	Alfas Group	<i>[Signature]</i>
Peter Launch	RTG	<i>[Signature]</i>
Thomas Pate	RTM	<i>[Signature]</i>

- 1) Schedule vehicle KMs continue to be validated by Deloitte during Trial Running, and may be subject to change as a result of the Deloitte review
- 2) AVKR 12 day Average target is currently under review
- 3) TVS and fire suppression were a fail, however there was no impact to availability of the system
- 4) Actual KM'S for are being investigated by RTG, they are lower than expected.



Trial Running Scorecard (Rev 07)	
Date:	Saturday, August 10th, 2019
Trial Running Day # :	

Overall Pass/Repeat/Restart

PASS

Safety PASS

Operational

AM	PM	Average
		22:50:00

Travel Time (ATO Mode) 23 mins PASS

Weekday Headway 3 out of 4 required for pass []

- 1 Morning westbound – Arrivals at Lees
Between 06:45:00 and 08:45:00 average headway 3 min 25s = 35 Trains
Pass Ratio = 33 Trains 94%
- 2 Morning eastbound – Arrivals at Pimisi
Between 06:45:00 and 08:45:00 average headway 3 min 25s 94% = 33 Trains
Pass Ratio = 33 Trains 94%
- 3 Afternoon westbound – Arrivals at Rideau
Between 15:00:00 and 18:00:00 average headway 4 min 00s = 45 Trains
Pass Ratio = 42 Trains 93%
- 4 Afternoon eastbound – Arrivals at Lyon
Between 15:00:00 and 18:00:00 average headway 4 min 00s = 45 Trains
Pass Ratio = 42 Trains 93%

Scheduled No. Trains	Actual No. Trains	Ratio %
35		0.0%
35		0.0%
45		0.0%
45		0.0%

Maintenance Delivery PASS
Maintenance practices
Demonstration of IMIRS process

Vehicle Availability **Aggregate Vehicle Km Availability Ratio (AVKR)**

	Ratio	
AVKR (minimum daily average)	90%	PASS
AVKR (average over 12 days)	98%	[]

AVKR Daily		
Scheduled KM	Actual KM	AVKR Ratio %
10,411	10,323.282	99.2%
		#DIV/0!

Station **Availability** PASS

Station	Availability	Ratio
		99.7%

ASAX Daily		
Scheduled Service Hours	Actual Hours	ASAX Ratio %
266.27	266.27	100.0%
216.7	216.7	100.0%
266.27	266.27	100.0%
266.27	266.27	100.0%
266.27	266.27	100.0%
266.27	266.27	100.0%
266.27	261.9	98.4%
143.5	123	85.7%
266.27	266.27	100.0%
266.27	266.27	100.0%
266.27	259.99	97.6%

Customer Systems & Other Major System **Ratio**

System	Ratio	Status
Traction Power	99.5%	PASS
Passenger Announcement System	99.5%	PASS
Passenger Information System	99.5%	PASS
Fare Control Gates	99.5%	PASS
Ticket Vending Machines	99.5%	PASS
CCTV Cameras	99.5%	FAIL
Tunnel Ventilation System	99.5%	FAIL
Station Lighting	99.5%	PASS
P25 Radio	99.5%	PASS
Fire Monitoring & Suppression	99.5%	FAIL

Name	Company	Signature
LARRY GAUL	OCT	<i>[Signature]</i>
RICHARD WOLBER	OCC	<i>[Signature]</i>
Gaude Jacobs	RTM	<i>[Signature]</i>
Kyle Campbell	Altus Group	<i>[Signature]</i>
MATTHEW SLADE	OLRTC	<i>[Signature]</i>
PETER CAUCH	RTG	<i>[Signature]</i>
Troy Charter	OCT	<i>[Signature]</i>

- Notes:
- 1) KM adjusted to reflect the Deloitte scheduled KM
 - 2) CCTV - Whilst the video wall was not fully operational, all the workstations were operational, no impact on operations.
 - 3) TVS - system was fully operational, alarm related to damper condition which did not prevent the system from working.
 - 4) Fire Supression - System was under modification for the TOCC panel. System at Lyon was under priming, a normal status



Trial Running Scorecard (Rev 07)	
Date:	Sunday, August 11th, 2019
Trial Running Day # :	

Overall Pass/Repeat/Restart

PASS

Safety PASS

Operational
 Travel Time (ATO Mode) 23 mins PASS

AM	PM	Average
		22:23:00

Weekday Headway 3 out of 4 required for pass []

- 1 Morning westbound – Arrivals at Lees
 Between 06:45:00 and 08:45:00 average headway 3 min 25s = 35 Trains
 Pass Ratio = 33 Trains 94% []
- 2 Morning eastbound – Arrivals at Pimisi
 Between 06:45:00 and 08:45:00 average headway 3 min 25s 94% = 33 Trains
 Pass Ratio = 33 Trains 94% []
- 3 Afternoon westbound – Arrivals at Rideau
 Between 15:00:00 and 18:00:00 average headway 4 min 00s = 45 Trains
 Pass Ratio = 42 Trains 93% []
- 4 Afternoon eastbound – Arrivals at Lyon
 Between 15:00:00 and 18:00:00 average headway 4 min 00s = 45 Trains
 Pass Ratio = 42 Trains 93% []

Scheduled No. Trains	Actual No. Trains	Ratio %
35		0.0%
35		0.0%
45		0.0%
45		0.0%

Maintenance Delivery
 Maintenance practices FAIL
 Demonstration of IMIRS process PASS

Vehicle Availability **Aggregate Vehicle Km Availability Ratio (AVKR)**

	Ratio
AVKR (minimum daily average)	90%
AVKR (average over 12 days)	98%

AVKR Daily		
Scheduled KM	Actual KM	AVKR Ratio %
7,811	7,733.044	99.0%
		#DIV/0!

Station **Availability** 99.7% PASS

ASAX Daily		
Scheduled Service Hours	Actual Hours	ASAX Ratio %
228.58	228.58	100.0%
165.8	165.8	100.0%
228.58	228.58	100.0%
228.58	228.58	100.0%
228.58	228.58	100.0%
228.58	213.08	93.2%
108.5	93	85.7%
228.58	228.58	100.0%
228.58	228.58	100.0%
228.58	228.58	100.0%

Customer Systems & Other Major System **Ratio**

System	Ratio	Status
Traction Power	99.5%	PASS
Passenger Announcement System	99.5%	PASS
Passenger Information System	99.5%	PASS
Fare Control Gates	99.5%	PASS
Ticket Vending Machines	99.5%	PASS
CCTV Cameras	99.5%	FAIL
Tunnel Ventilation System	99.5%	FAIL
Station Lighting	99.5%	PASS
P25 Radio	99.5%	PASS
Fire Monitoring & Suppression	99.5%	PASS

Name	Company	Signature
LARRY GAUL	OCT	
RICHARD HOLDER	OTC	
Claude Saub	RTM	
Kyle Campbell	Atlas Group	
MATTHEW SLADE	OLRTC	
PETER LAUCH	RTG	
Troy Charter	OCT	

- Notes:
- 1) KM adjusted to reflect the Deloitte scheduled KM
 - 2) CCTV - LUX level issue could not be confirmed by OCT or OLRTC
 - 3) TVS - system was fully operational, alarm related to damper condition which did not prevent the system from working.



Trial Running Scorecard (Rev 07)	
Date:	Monday, August 12th, 2019
Trial Running Day # :	

Overall Pass/Repeat/Restart

PASS

Safety PASS

Operational
 Travel Time (ATO Mode) 23 mins PASS

AM	PM	Average
22:40:00	22:48:00	22:44:00

Weekday Headway 3 out of 4 required for pass PASS

1 Morning westbound – Arrivals at Lees
 Between 06:45:00 and 08:45:00 average headway 3 min 25s = 35 Trains
 Pass Ratio = 33 Trains 94%

PASS

Scheduled No. Trains	Actual No. Trains	Ratio %
35	35	100.0%

2 Morning eastbound – Arrivals at Pimisi
 Between 06:45:00 and 08:45:00 average headway 3 min 25s 94% = 33 Trains
 Pass Ratio = 33 Trains 94%

PASS

Scheduled No. Trains	Actual No. Trains	Ratio %
35	35	100.0%

3 Afternoon westbound – Arrivals at Rideau
 Between 15:00:00 and 18:00:00 average headway 4 min 00s = 45 Trains
 Pass Ratio = 42 Trains 93%

PASS

Scheduled No. Trains	Actual No. Trains	Ratio %
45	45	100.0%

4 Afternoon eastbound – Arrivals at Lyon
 Between 15:00:00 and 18:00:00 average headway 4 min 00s = 45 Trains
 Pass Ratio = 42 Trains 93%

PASS

Scheduled No. Trains	Actual No. Trains	Ratio %
45	45	100.0%

Maintenance Delivery
 Maintenance practices PASS
 Demonstration of IMIRS process PASS

Vehicle Availability	Aggregate Vehicle Km Availability Ratio (AVKR)	Ratio
	AVKR (minimum daily average)	90%
	AVKR (average over 12 days)	98%

PASS

AVKR Daily		
Scheduled KM	Actual KM	AVKR Ratio %
12,178.46	11,991.908	98.5%
		#DIV/0!

Station	Ratio
Availability	99.7%

FAIL

Customer Systems & Other Major System	Ratio
Traction Power	99.5%
Passenger Announcement System	99.5%
Passenger Information System	99.5%
Fare Control Gates	99.5%
Ticket Vending Machines	99.5%
CCTV Cameras	99.5%
Tunnel Ventilation System	99.5%
Station Lighting	99.5%
P25 Radio	99.5%
Fire Monitoring & Suppression	99.5%

PASS
 PASS
 PASS
 PASS
 PASS
 FAIL
 FAIL
 PASS
 PASS
 PASS

ASAX Daily		
Scheduled Service Hours	Actual Hours	ASAX Ratio %
269.98	259.73	96.2%
217.5	217.5	100.0%
269.98	269.98	100.0%
269.98	269.98	100.0%
269.98	269.98	100.0%
269.98	269.98	100.0%
269.98	240.86	89.2%
143.5	123.00	85.7%
269.98	269.98	100.0%
269.98	269.98	100.0%
269.98	269.98	100.0%

Name	Company	Signature
MATTHEW SLADE	OLRTC	
WILLIAM ALLMAN	OLRTC	
PETER LAUCH	RTG	
Kyle Campbell	Altus Group	
Claude Jacobs	RTH	
RICHARD HODGER	OTC	
Troy Charbon	OCT	
LARRY GAUL	OCT	

- Notes:
- 1) KM adjusted to reflect the Deloitte scheduled KM
 - 2) Station availability - one motorized door not functioning for disability automated access at one entrance - station still available. Action on work order delayed due to process fault
 - 3) TVS - system was fully operational, alarm related to damper condition which did not prevent the system from working.
 - 4) CCTV - Minor issues not impacting safety, security or availability



Trial Running Scorecard (Rev 07)	
Date:	-Monday, August 13th, 2019
Trial Running Day # :	TUESDAY

Overall Pass/Repeat/Restart

PASS

Safety PASS

Operational
 Travel Time (ATO Mode) 23 mins PASS

AM	PM	Average
22:33:00	23:12:00	22:52:30

Weekday Headway 3 out of 4 required for pass PASS

- 1 Morning westbound – Arrivals at Lees
 Between 06:45:00 and 08:45:00 average headway 3 min 25s = 35 Trains
 Pass Ratio = 33 Trains 94% PASS
- 2 Morning eastbound – Arrivals at Pimisi
 Between 06:45:00 and 08:45:00 average headway 3 min 25s 94% = 33 Trains
 Pass Ratio = 33 Trains 94% PASS
- 3 Afternoon westbound – Arrivals at Rideau
 Between 15:00:00 and 18:00:00 average headway 4 min 00s = 45 Trains
 Pass Ratio = 42 Trains 93% PASS
- 4 Afternoon eastbound – Arrivals at Lyon
 Between 15:00:00 and 18:00:00 average headway 4 min 00s = 45 Trains
 Pass Ratio = 42 Trains 93% PASS

Scheduled No. Trains	Actual No. Trains	Ratio %
35	35	100.0%
35	35	100.0%
45	44	97.8%
45	44	97.8%

Maintenance Delivery
 Maintenance practices FAIL
 Demonstration of IMIRS process PASS

Vehicle Availability Aggregate Vehicle Km Availability Ratio (AVKR)
 Ratio
 AVKR (minimum daily average) 90% PASS
 AVKR (average over 12 days) 98%

AVKR Daily		
Scheduled KM	Actual KM	AVKR Ratio %
12,178.46	11,165.890	91.7%
		#DIV/0!

Station Availability Ratio 99.7% FAIL

ASAX Daily		
Scheduled Service Hours	Actual Hours	ASAX Ratio %
269.54	259.92	96.4%

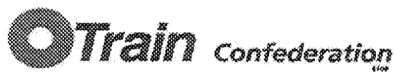
Customer Systems & Other Major System Ratio

- Traction Power 99.5% PASS
- Passenger Announcement System 99.5% PASS
- Passenger Information System 99.5% FAIL
- Fare Control Gates 99.5% PASS
- Ticket Vending Machines 99.5% PASS
- CCTV Cameras 99.5% FAIL
- Tunnel Ventilation System 99.5% PASS
- Station Lighting 99.5% PASS
- P25 Radio 99.5% PASS
- Fire Monitoring & Suppression 99.5% PASS

217.5	217.5	100.0%
269.54	269.54	100.0%
269.54	208.92	77.5%
269.54	269.54	100.0%
269.54	269.54	100.0%
269.54	244.04	90.5%
143.5	143.50	100.0%
269.54	269.54	100.0%
269.54	269.54	100.0%
269.54	269.54	100.0%

Name	Company	Signature
Troy Charbe	OCT	
LARRY GAUL	OCT	
RICHARD HOLPER	OCT	
Charles Lieb	RTM	
MATTHEW SLADE	OLRTC	
Kyle Campbell	Altus Group	
PETER LAUCH	RTG	
WILLIAM ALMAN	OLRTC	

- Notes:
- 1) KM adjusted to reflect the Deloitte scheduled KM
 - 2) Station availability - one motorized door not functioning for disability automated access at one entrance - station still available. Action on work order delayed due to process fault
 - 3) Maintenance practices are being undertaken however inspection reports are not being submitted in the required format
 - 4) CCTV - Minor issues not impacting safety, security or availability



Trial Running Scorecard (Rev 07)	
Date:	Wednesday, August 14th, 2019
Trial Running Day # :	

Overall Pass/Repeat/Restart

REPEAT DAY

Safety PASS

Operational FAIL
 Travel Time (ATO Mode) 23 mins

AM	PM	Average
25m:18s	22m:48s	24m:03s

Weekday Headway 3 out of 4 required for pass FAIL

1 Morning westbound – Arrivals at Lees
 Between 06:45:00 and 08:45:00 average headway 3 min 25s = 35 Trains
 Pass Ratio = 33 Trains 94% FAIL

Scheduled No. Trains	Actual No. Trains	Ratio %
35	30	85.7%

2 Morning eastbound – Arrivals at Pimisi
 Between 06:45:00 and 08:45:00 average headway 3 min 25s 94% = 33 Trains
 Pass Ratio = 33 Trains 94% FAIL

Scheduled No. Trains	Actual No. Trains	Ratio %
35	27	77.1%

3 Afternoon westbound – Arrivals at Rideau
 Between 15:00:00 and 18:00:00 average headway 4 min 00s = 45 Trains
 Pass Ratio = 42 Trains 93% PASS

Scheduled No. Trains	Actual No. Trains	Ratio %
45	45	100.0%

4 Afternoon eastbound – Arrivals at Lyon
 Between 15:00:00 and 18:00:00 average headway 4 min 00s = 45 Trains
 Pass Ratio = 42 Trains 93% PASS

Scheduled No. Trains	Actual No. Trains	Ratio %
45	45	100.0%

Maintenance Delivery FAIL
 Maintenance practices
 Demonstration of IMIRS process PASS

Vehicle Availability Aggregate Vehicle Km Availability Ratio (AVKR)
 Ratio
 AVKR (minimum daily average) 90% PASS
 AVKR (average over 12 days) 98%

AVKR Daily		
Scheduled KM	Actual KM	AVKR Ratio %
12,178.46	11,435.206	93.9%
		#DIV/0!

Station Availability Ratio 99.7% PASS

ASAX Daily		
Scheduled Service Hours	Actual Hours	ASAX Ratio %
269.54	269.54	100.0%

Customer Systems & Other Major System Ratio
 Traction Power 99.5% PASS
 Passenger Announcement System 99.5% PASS
 Passenger Information System 99.5% FAIL
 Fare Control Gates 99.5% PASS
 Ticket Vending Machines 99.5% PASS
 CCTV Cameras 99.5% FAIL
 Tunnel Ventilation System 99.5% PASS
 Station Lighting 99.5% PASS
 P25 Radio 99.5% PASS
 Fire Monitoring & Suppression 99.5% PASS

Scheduled Service Hours	Actual Hours	ASAX Ratio %
217.5	217.54	100.0%
269.54	269.54	100.0%
269.54	260.21	96.5%
269.54	269.54	100.0%
269.54	269.54	100.0%
269.54	243.15	90.2%
143.5	143.50	100.0%
269.54	269.54	100.0%
312	312	100.0%
312	312	100.0%

Name	Company	Signature
MATTHEW SLADE	ORTC	
Troy Charter	OCT	
LARRY GAUL	OCT	
RICHARD HOLDER	OTC	
Claude Leeds	RTM	
Kyle Campbell	Altus Group	
PETER CAUCH	RTG	
WILLIAM KIMM	ARTE	

Notes:
 1) KM adjusted to reflect the Deloitte scheduled KM
 2) CCTV and PI - Minor issues not impacting safety, security or availability
 3) TRRT agreed to change Fire Systems and P25 to 24 hour - due to fire and life safety 24/7 systems past days will not be changed, as no impact to previous score cards.



Trial Running Scorecard (Rev 07)	
Date:	Thursday, August 14th, 2019
Trial Running Day # :	15

Overall Pass/Repeat/Restart

REPEAT

Safety PASS

Operational
Travel Time (ATO Mode) 23 mins PASS

AM	PM	Average
22m:38s	22m:52s	22m:45s

Weekday Headway 3 out of 4 required for pass FAIL

- 1 Morning westbound – Arrivals at Lees**
 Between 06:45:00 and 08:45:00 average headway 3 min 25s = 35 Trains
 Pass Ratio = 33 Trains 94% FAIL
- 2 Morning eastbound – Arrivals at Pimisi**
 Between 06:45:00 and 08:45:00 average headway 3 min 25s 94% = 33 Trains
 Pass Ratio = 33 Trains 94% FAIL
- 3 Afternoon westbound – Arrivals at Rideau**
 Between 15:00:00 and 18:00:00 average headway 4 min 00s = 45 Trains
 Pass Ratio = 42 Trains 93% PASS
- 4 Afternoon eastbound – Arrivals at Lyon**
 Between 15:00:00 and 18:00:00 average headway 4 min 00s = 45 Trains
 Pass Ratio = 42 Trains 93% PASS

Scheduled No. Trains	Actual No. Trains	Ratio %
35	27	77.1%
35	24	68.6%
45	45	100.0%
45	45	100.0%

Maintenance Delivery
Maintenance practices PASS
Demonstration of IMIRS process PASS

Vehicle Availability **Aggregate Vehicle Km Availability Ratio (AVKR)**

	Ratio	
AVKR (minimum daily average)	90%	PASS
AVKR (average over 12 days)	98%	

AVKR Daily		
Scheduled KM	Actual KM	AVKR Ratio %
12,178.46	11,230.714	92.2%
		#DIV/0!

Station **Ratio**

Availability	99.7%	PASS
--------------	-------	---

ASAX Daily		
Scheduled Service Hours	Actual Hours	ASAX Ratio %
270.81	270.81	100.0%
217.5	217.54	100.0%
270.81	270.81	100.0%
270.81	270.81	100.0%
270.81	270.81	100.0%
270.81	244.42	90.3%
143.5	143.50	100.0%
270.81	270.81	100.0%
24	24	100.0%
576	560.15	97.2%

Customer Systems & Other Major System **Ratio**

Traction Power	99.5%	PASS	
Passenger Announcement System	99.5%		
Passenger Information System	99.5%		
Fare Control Gates	99.5%		
Ticket Vending Machines	99.5%		
CCTV Cameras	99.5%		
Tunnel Ventilation System	99.5%		
Station Lighting	99.5%		
P25 Radio	99.5%		
Fire Monitoring & Suppression	99.5%		
			FAIL
			PASS
			PASS
			PASS

Name	Company	Signature
MATTHEW SLADE	OLRTC	
Troy Charter	OCT	
Joe Noel rep. L. G. W. I.	CTP/STV	
RICHARD WOLDER	OTC	
Claude Jacobs	RTM	
Kyle Campbell	Altus Group	
PETER LAUCH	RTG	
WILLIAM ALMAN	OLRTC	

Notes:
 1) KM adjusted to reflect the Deloitte scheduled KM
 2) CCTV - Minor issues not impacting safety, security or availability
 3) TRRT agreed to change Fire Systems and P25 to 24 hour - due to fire and life safety 24/7 systems past days will not be changed, as no impact to previous score cards.
 Fire monitoring 24 hours x (13 stations+MSF+TOCC+9TPSS) EQUALS 576Hours



Trial Running Scorecard (Rev 07)	
Date:	Friday, August 16th, 2019
Trial Running Day # :	

Overall Pass/Repeat/Restart

PASS

Safety

PASS

Operational

Travel Time (ATO Mode) 23 mins

PASS

AM	PM	Average
22m:42s	N/A	22m:42s

Weekday Headway 3 out of 4 required for pass

PASS

- Morning westbound – Arrivals at Lees
Between 06:45:00 and 08:45:00 average headway ~~3 min 25s~~ = 3⁸ Trains
Pass Ratio = 28 Trains 93%
- Morning eastbound – Arrivals at Pimisi
Between 06:45:00 and 08:45:00 average headway ~~3 min 25s~~ 94% = 3⁸ Trains
Pass Ratio = 28 Trains 93%
- Afternoon westbound – Arrivals at Rideau
Between 15:00:00 and 18:00:00 average headway 4 min 00s = 45 Trains
Pass Ratio = 42 Trains 93%
- Afternoon eastbound – Arrivals at Lyon
Between 15:00:00 and 18:00:00 average headway 4 min 00s = 45 Trains
Pass Ratio = 42 Trains 93%

PASS

PASS

PASS

PASS

Scheduled No. Trains	Actual No. Trains	Ratio %
30	31	103.3%
30	31	103.3%
45	41	91.1%
45	30	66.7%

Maintenance Delivery

Maintenance practices

Demonstration of IMIRS process

PASS

PASS

Vehicle Availability

Aggregate Vehicle Km Availability Ratio (AVKR)

	Ratio
AVKR (minimum daily average)	90%
AVKR (average over 12 days)	98%

PASS

AVKR Daily		
Scheduled KM	Actual KM	AVKR Ratio %
12,393.00	11,436.694	92.3%
	4774	#DIV/0!

NTL
47-21

Station

Availability	Ratio
Availability	99.7%

PASS

Customer Systems & Other Major System

	Ratio
Traction Power	99.5%
Passenger Announcement System	99.5%
Passenger Information System	99.5%
Fare Control Gates	99.5%
Ticket Vending Machines	99.5%
CCTV Cameras	99.5%
Tunnel Ventilation System	99.5%
Station Lighting	99.5%
P25 Radio	99.5%
Fire Monitoring & Suppression	99.5%

PASS

PASS

PASS

PASS

PASS

PASS

PASS

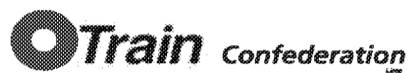
PASS

ASAX Daily		
Scheduled Service Hours	Actual Hours	ASAX Ratio %
280.08	280.08	100.0%
226.5	226.5	100.0%
280.08	280.08	100.0%
280.08	270.25	96.5%
280.08	280.08	100.0%
280.08	280.08	100.0%
280.08	266.58	95.2%
150.5	150.50	100.0%
280.08	280.08	100.0%
24	24	100.0%
576	552	95.8%

Name	Company	Signature
RICHARD HOLPER	OTC	<i>[Signature]</i>
Kyle Campbell	Altas	<i>[Signature]</i>
<i>[Signature]</i>	RTM	<i>[Signature]</i>
William Alkum	ORPCC	<i>[Signature]</i>
PETER LAUCH	RTG	<i>[Signature]</i>
Troy Charter	OCT	<i>[Signature]</i>
Joe North for L. Gawl	CTP	<i>[Signature]</i>

Notes:

- 1) KM adjusted for new 13 AM peak train count
- 2) CCTV and PI - Minor issues not impacting safety, security or availability
- 3) For the afternoon travel time/headway; single track operation which occurred is being considered by the



Trial Running Scorecard (Rev 08)	
Date:	Saturday, August 17th, 2019
Trial Running Day # :	

Overall Pass/Repeat/Restart

PASS

Safety PASS

Operational
 Travel Time (ATO Mode) 23 mins PASS

AM	PM	Average
22m:46s	N/A	22m:46s

Weekday Headway 3 out of 4 required for pass N/A

- 1 Morning westbound – Arrivals at Lees
Between 06:45:00 and 08:45:00 average headway = 30 Trains
Pass Ratio = 28 Trains 93%
- 2 Morning eastbound – Arrivals at Pimisi
Between 06:45:00 and 08:45:00 average headway = 30 Trains
Pass Ratio = 28 Trains 93%
- 3 Afternoon westbound – Arrivals at Rideau
Between 15:00:00 and 18:00:00 average headway 4 min 00s = 45 Trains
Pass Ratio = 42 Trains 93%
- 4 Afternoon eastbound – Arrivals at Lyon
Between 15:00:00 and 18:00:00 average headway 4 min 00s = 45 Trains
Pass Ratio = 42 Trains 93%

Scheduled No. Trains	Actual No. Trains	Ratio %
30	0	0.0%
30	0	0.0%
45	0	0.0%
45	0	0.0%

Maintenance Delivery
 Maintenance practices FAIL
 Demonstration of IMIRS process PASS

Vehicle Availability
 Aggregate Vehicle Km Availability Ratio (AVKR)
 Ratio
 AVKR (minimum daily average) 90% PASS
 AVKR (average over 12 days) 98%

AVKR Daily		
Scheduled KM	Actual KM	AVKR Ratio %
10,410.00	10,092.612	96.95%
		#DIV/0!

Station
 Availability
 Ratio
 Availability 99.7% PASS

ASAX Daily		
Scheduled Service Hours	Actual Hours	ASAX Ratio %
266.31	266.31	100.0%

Customer Systems & Other Major System
 Ratio
 Traction Power 99.5% PASS
 Passenger Announcement System 99.5% PASS
 Passenger Information System 99.5% FAIL
 Fare Control Gates 99.5% PASS
 Ticket Vending Machines 99.5% PASS
 CCTV Cameras 99.5% FAIL
 Tunnel Ventilation System 99.5% PASS
 Station Lighting 99.5% PASS
 P25 Radio 99.5% PASS
 Fire Monitoring & Suppression 99.5% PASS

Scheduled Service Hours	Actual Hours	ASAX Ratio %
216.7	216.7	100.0%
266.31	265.5	99.7%
266.31	245.81	92.3%
266.31	266.31	100.0%
266.31	266.31	100.0%
266.31	165.75	62.2%
143.5	143.50	100.0%
266.31	266.31	100.0%
24	24	100.0%
552	552	100.0%

Name	Company	Signature
PETER LAUCH	RTS	
Joe North for L Gaur	CTP	
Diana D. Dugarte	OCT	
William Allman	ORTEL	
Tom PATE	RTM	
ERIC DUBÉ	OTC	
Kyle Campbell	Altus Group	

Notes:
 1) CCTV and PI - Minor issues not impacting safety, security or availability.



Trial Running Scorecard (Rev 08)	
Date:	Sunday, August 18th, 2019
Trial Running Day # :	8

Overall Pass/Repeat/Restart

PASS

Safety PASS

Operational PASS
Travel Time (ATO Mode) 23 mins

AM	PM	Average
22m:37s	N/A	22m:37s

Weekday Headway 3 out of 4 required for pass N/A

1 Morning westbound – Arrivals at Lees N/A
 Between 06:45:00 and 08:45:00 average headway = 30 Trains
 Pass Ratio = 28 Trains 93%

Scheduled No. Trains	Actual No. Trains	Ratio %
30	0	0.0%

2 Morning eastbound – Arrivals at Pimisi N/A
 Between 06:45:00 and 08:45:00 average headway = 30 Trains
 Pass Ratio = 28 Trains 93%

Scheduled No. Trains	Actual No. Trains	Ratio %
30	0	0.0%

3 Afternoon westbound – Arrivals at Rideau N/A
 Between 15:00:00 and 18:00:00 average headway 4 min 00s = 45 Trains
 Pass Ratio = 42 Trains 93%

Scheduled No. Trains	Actual No. Trains	Ratio %
45	0	0.0%

4 Afternoon eastbound – Arrivals at Lyon N/A
 Between 15:00:00 and 18:00:00 average headway 4 min 00s = 45 Trains
 Pass Ratio = 42 Trains 93%

Scheduled No. Trains	Actual No. Trains	Ratio %
45	0	0.0%

Maintenance Delivery FAIL
PASS
Maintenance practices
Demonstration of IMIRS process

Vehicle Availability **Aggregate Vehicle Km Availability Ratio (AVKR)** PASS
 Ratio
 AVKR (minimum daily average) 90%
 AVKR (average over 12 days) 98%

AVKR Daily		
Scheduled KM	Actual KM	AVKR Ratio %
7,812.00	7,610.354	97.42%
		#DIV/0!

Station Availability PASS
 Ratio 99.7%

ASAX Daily		
Scheduled Service Hours	Actual Hours	ASAX Ratio %
202.59	202.59	100.0%

Customer Systems & Other Major System PASS
FAIL
FAIL
PASS
PASS
FAIL
PASS
PASS
PASS
PASS
 Ratio

Traction Power	99.5%
Passenger Announcement System	99.5%
Passenger Information System	99.5%
Fare Control Gates	99.5%
Ticket Vending Machines	99.5%
CCTV Cameras	99.5%
Tunnel Ventilation System	99.5%
Station Lighting	99.5%
P25 Radio	99.5%
Fire Monitoring & Suppression	99.5%

Scheduled Service Hours	Actual Hours	ASAX Ratio %
165.8	165.8	100.0%
202.59	171.59	84.7%
202.59	167.69	82.8%
202.59	202.59	100.0%
202.59	202.59	100.0%
202.59	116.31	57.4%
108.5	108.5	100.0%
202.59	202.59	100.0%
24	24	100.0%
552	552	100.0%

Name	Company	Signature
MATTHEW SLADE	OLRTC	
Troy Charuta	OCT	
Joe North for L. G401	CTP	
RICHARD HOLDER	OTC	
Claude Jacob	RTM	
Kyle Campbell	Altus	
PETER LAUCH	RTG	
WILLIAM ALLEMAN	OLRTC	

- Notes:
- 1) CCTV, PI and PA - Minor issues not impacting safety, security or availability. (CCTV Note: Based on FOT observations 7 CCTV assets reported not working out of CIRCA 1200 Cameras, these assets have now been reported working, however workorders not closed)
 - 2) Station hours changed to 202.59 hours based on 8am to 11pm based on correct timetable.



Trial Running Scorecard (Rev 08)	
Date:	Monday, August 19th, 2019
Trial Running Day # :	9

Overall Pass/Repeat/Restart

PASS

Safety PASS

Operational
Travel Time (ATO Mode) 23 mins FAIL

AM	PM	Average
24m:11s	22:50:00	23m:30s

Weekday Headway 3 out of 4 required for pass PASS

- 1 Morning westbound – Arrivals at Lees**
Between 06:45:00 and 08:45:00 average headway = 30 Trains
Pass Ratio = 28 Trains 93%
- 2 Morning eastbound – Arrivals at Pimisi**
Between 06:45:00 and 08:45:00 average headway = 30 Trains
Pass Ratio = 28 Trains 93%
- 3 Afternoon westbound – Arrivals at Rideau**
Between 15:00:00 and 18:00:00 average headway 4 min 00s = 45 Trains
Pass Ratio = 42 Trains 93%
- 4 Afternoon eastbound – Arrivals at Lyon**
Between 15:00:00 and 18:00:00 average headway 4 min 00s = 45 Trains
Pass Ratio = 42 Trains 93%

Scheduled No. Trains	Actual No. Trains	Ratio %
30	28	93.3%
30	29	96.7%
45	44	97.8%
45	46	102.2%

Maintenance Delivery
Maintenance practices FAIL
Demonstration of IMIRS process PASS

Vehicle Availability Aggregate Vehicle Km Availability Ratio (AVKR)
 AVKR (minimum daily average) 90% PASS
 AVKR (average over 12 days) 98%

AVKR Daily		
Scheduled KM	Actual KM	AVKR Ratio %
11,675	11,349.00	97.21%
		#DIV/0!

Station Availability 99.7% PASS

ASAX Daily		
Scheduled Service Hours	Actual Hours	ASAX Ratio %
270.6	270.18	99.8%

Customer Systems & Other Major System Ratio
 Traction Power 99.5% PASS
 Passenger Announcement System 99.5% PASS
 Passenger Information System 99.5% FAIL
 Fare Control Gates 99.5% PASS
 Ticket Vending Machines 99.5% PASS
 CCTV Cameras 99.5% FAIL
 Tunnel Ventilation System 99.5% PASS
 Station Lighting 99.5% FAIL
 P25 Radio 99.5% PASS
 Fire Monitoring & Suppression 99.5% PASS

217.5	217.5	100.0%
270.6	270.6	100.0%
270.6	256.89	94.9%
270.6	270.6	100.0%
270.6	270.6	100.0%
270.6	186.68	69.0%
143.5	143.5	100.0%
270.6	250.1	92.4%
24	24	100.0%
576	576	100.0%

Name	Company	Signature
LARRY GAUL	OCT	
Troy Charter	OCT	
RICHARD HOLDER	OTC	
Claude Jacobs	RTM	
Kyle Campbell	Altus Group	
PETER LAUCH	RTG	
WILLIAM ALMAN	ORIC	
MATTHEW SLADE	ORIC	

Notes:

- 1) Maintenance Practices - Due to an occurrence, processes and procedures are being adjusted
- 2) PIS - Minor issue not considered relevant to safety or security
- 3) CCTV - validation exercise to be undertaken to investigate "help is on the way"
- 4) Travel Time - Not considered to impact the overall result for the day due to only one trip being affected by a GIDs activation
- 5) Aggregate AVKR 9 day average >96%



Trial Running Scorecard (Rev 08)	
Date:	Tuesday , August 20th, 2019
Trial Running Day # :	10

Overall Pass/Repeat/Restart

PASS

Safety

PASS

Operational

Travel Time (ATO Mode) 23 mins

PASS

AM	PM	Average
22m:42s	22m:51s	22m:46s

Weekday Headway 3 out of 4 required for pass

PASS

- 1 Morning westbound – Arrivals at Lees
Between 06:45:00 and 08:45:00 average headway = 30 Trains
Pass Ratio = 28 Trains 93%
- 2 Morning eastbound – Arrivals at Pimisi
Between 06:45:00 and 08:45:00 average headway = 30 Trains
Pass Ratio = 28 Trains 93%
- 3 Afternoon westbound – Arrivals at Rideau
Between 15:00:00 and 18:00:00 average headway 4 min 00s = 45 Trains
Pass Ratio = 42 Trains 93%
- 4 Afternoon eastbound – Arrivals at Lyon
Between 15:00:00 and 18:00:00 average headway 4 min 00s = 45 Trains
Pass Ratio = 42 Trains 93%

PASS
PASS
PASS
PASS

Scheduled No. Trains	Actual No. Trains	Ratio %
30	31	103.3%
30	31	103.3%
45	45	100.0%
45	45	100.0%

Maintenance Delivery

*Maintenance practices
Demonstration of IMIRS process*

PASS
PASS

Vehicle Availability Aggregate Vehicle Km Availability Ratio (AVKR)

	Ratio
AVKR (minimum daily average)	90%
AVKR (average over 12 days)	98%

PASS

AVKR Daily		
Scheduled KM	Actual KM	AVKR Ratio %
11,675.00	11,342.176	97.15%
		#DIV/0!

Station

Station	Availability	Ratio
	Availability	99.7%

PASS

Customer Systems & Other Major System

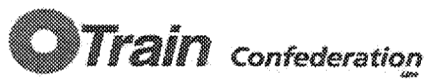
	Ratio
Traction Power	99.5%
Passenger Announcement System	99.5%
Passenger Information System	99.5%
Fare Control Gates	99.5%
Ticket Vending Machines	99.5%
CCTV Cameras	99.5%
Tunnel Ventilation System	99.5%
Station Lighting	99.5%
P25 Radio	99.5%
Fire Monitoring & Suppression	99.5%

PASS
PASS
PASS
PASS
PASS
PASS
PASS
PASS
PASS
PASS
PASS

ASAX Daily		
Scheduled Service Hours	Actual Hours	ASAX Ratio %
271.05	271.05	100.0%
217.5	217.5	100.0%
271.05	271.05	100.0%
271.05	248.3	91.6%
271.05	271.05	100.0%
271.05	271.05	100.0%
271.05	271.05	100.0%
271.05	271.05	100.0%
24	24	100.0%
576	576	100.0%

Name	Company	Signature
LARRY GAUL	OCT	
Troy Clatter	OCT	
RICHARD HOLDER	OTC	
Claude Jacobs	RTM	
Kyle Campbell	Altus Group	
PETER LAUCH	RTG	
WILLIAM ALMAN	OLRTC	
MATTHEW SLADE	OLRTC	

Notes:
1) PI - Minor issues not impacting safety, security or availability.



Trial Running Scorecard (Rev 08)	
Date:	Wednesday , August 21st, 2019
Trial Running Day # :	11

Overall Pass/Repeat/Restart

PASS

Safety PASS

Operational PASS

AM	PM	Average
22m:25s	22m:55s	22m:40s

Travel Time (ATO Mode) 23 mins

Weekday Headway 3 out of 4 required for pass PASS

- 1 Morning westbound – Arrivals at Lees
Between 06:45:00 and 08:45:00 average headway = 30 Trains
Pass Ratio = 28 Trains 93%
- 2 Morning eastbound – Arrivals at Pimisi
Between 06:45:00 and 08:45:00 average headway = 30 Trains
Pass Ratio = 28 Trains 93%
- 3 Afternoon westbound – Arrivals at Rideau
Between 15:00:00 and 18:00:00 average headway 4 min 00s = 45 Trains
Pass Ratio = 42 Trains 93%
- 4 Afternoon eastbound – Arrivals at Lyon
Between 15:00:00 and 18:00:00 average headway 4 min 00s = 45 Trains
Pass Ratio = 42 Trains 93%

Scheduled No. Trains	Actual No. Trains	Ratio %
30	31	103.3%
30	31	103.3%
45	45	100.0%
45	45	100.0%

Maintenance Delivery PASS

Maintenance practices PASS

Demonstration of IMIRS process PASS

Vehicle Availability **Aggregate Vehicle Km Availability Ratio (AVKR)**

	Ratio
AVKR (minimum daily average)	90%
AVKR (average over 12 days)	98%

AVKR Daily		
Scheduled KM	Actual KM	AVKR Ratio %
11,785.42	11,688.778	99.18%
N/A	N/A	N/A

Station **Availability** PASS

Station	Ratio
Availability	99.7%

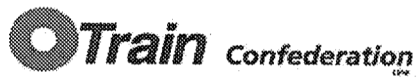
ASAX Daily		
Scheduled Service Hours	Actual Hours	ASAX Ratio %
270.6	270.60	100.0%
217.5	217.5	100.0%
270.6	270.6	100.0%
270.6	270.6	100.0%
270.6	270.6	100.0%
270.6	270.6	100.0%
270.6	270.6	100.0%
143.5	143.5	100.0%
270.6	270.6	100.0%
24	24	100.0%
576	576	100.0%

Customer Systems & Other Major System **Ratio**

Traction Power	99.5%
Passenger Announcement System	99.5%
Passenger Information System	99.5%
Fare Control Gates	99.5%
Ticket Vending Machines	99.5%
CCTV Cameras	99.5%
Tunnel Ventilation System	99.5%
Station Lighting	99.5%
P25 Radio	99.5%
Fire Monitoring & Suppression	99.5%

Name	Company	Signature
MATTHEW SLADE	OLRTC	
Troy Charter	OCT	
LARRY GAUL	OCT	
RICHARD MOLDER	OTC	
Gaude Jacobs	RTM	
Kyle Campbell	Altus Group	
PETER LAUCH	RTB	
William Alaman	OLRTC	

Notes:
1) Schedule KM change based on new timetable implemented from 21st Aug onwards , previously 11,675 now 11,785.42



Trial Running Scorecard (Rev 08)	
Date:	Thursday , August 21st, 2019
Trial Running Day # :	12 <i>2d</i>

Overall Pass/Repeat/Restart

PASS

Safety PASS

Operational
 Travel Time (ATO Mode) 23 mins PASS

AM	PM	Average
22m:02s	22m:54s	22m:28s

Weekday Headway 3 out of 4 required for pass FAIL

	Scheduled No. Trains	Actual No. Trains	Ratio %
1 Morning westbound – Arrivals at Lees Between 06:45:00 and 08:45:00 average headway = 30 Trains Pass Ratio = 28 Trains 93%	30	27	90.0%
2 Morning eastbound – Arrivals at Pimisi Between 06:45:00 and 08:45:00 average headway = 30 Trains Pass Ratio = 28 Trains 93%	30	27	90.0%
3 Afternoon westbound – Arrivals at Rideau Between 15:00:00 and 18:00:00 average headway 4 min 00s = 45 Trains Pass Ratio = 42 Trains 93%	45	45	100.0%
4 Afternoon eastbound – Arrivals at Lyon Between 15:00:00 and 18:00:00 average headway 4 min 00s = 45 Trains Pass Ratio = 42 Trains 93%	45	45	100.0%

* Refer to footnote
* Refer to footnote

Maintenance Delivery
 Maintenance practices PASS
 Demonstration of IMIRS process PASS

Vehicle Availability **Aggregate Vehicle Km Availability Ratio (AVKR)**

	Ratio
AVKR (minimum daily average)	90%
AVKR (average over 12 days)	98%

AVKR Daily		
Scheduled KM	Actual KM	AVKR Ratio %
11,785.424	11,407.338	96.8%
132,960	128,658	96.8%

Station **Availability**

Station	Availability	Ratio
		99.7%

ASAX Daily		
Scheduled Service Hours	Actual Hours	ASAX Ratio %
270.6	270.60	100.0%

Customer Systems & Other Major System **Ratio**

Traction Power	99.5%
Passenger Announcement System	99.5%
Passenger Information System	99.5%
Fare Control Gates	99.5%
Ticket Vending Machines	99.5%
CCTV Cameras	99.5%
Tunnel Ventilation System	99.5%
Station Lighting	99.5%
P25 Radio	99.5%
Fire Monitoring & Suppression	99.5%

217.5	217.5	100.0%
270.6	250.55	92.6%
270.6	270.6	100.0%
270.6	270.6	100.0%
270.6	270.6	100.0%
270.6	262.42	97.0%
143.5	143.5	100.0%
270.6	270.6	100.0%
24	24	100.0%
576	576	100.0%

Name	Company	Signature
Troy Charter	OCT	
GARRY GAUL	OCT	
RICHARD HOLBER	OTC	
Claude Jacobs	RTM	
Kyle Campbell	Altus Group	
PETER LAUCH	RTG	
MATTHEW SLADE	OLRTC	
William Allman	OLRTC	

- Notes:
- 1) CCTV and PA - Minor issues not impacting safety, security or availability
 - 2) RFI-O-266 Morning peak above minimum availability 88%
 - 3) AVKR - refer to Appendix TRRT Conclusion

AVKR

Day #	Day	Date	%	Schedule KM	Actual KM	Status
1	Saturday	3rd AUG	97.30%	10,410.63	10,130	Actual
2	Sunday	4th AUG	99.50%	7,810.51	7,771	Actual
3	Monday	5th AUG	95.22%	12,178.46	11,596	Actual
4	Tuesday	6th AUG	91.34%	12,178.46	11,124	Actual
<i>Pause</i>	<i>Wednesday</i>	<i>7th AUG</i>		<i>12,178.46</i>	<i>10,380</i>	<i>Actual</i>
<i>Pause</i>	<i>Thursday</i>	<i>8th AUG</i>		<i>12,178.46</i>	<i>10,351</i>	<i>Actual</i>
<i>Restart</i>						
1	Friday	9th AUG	97.44%	12,846	12,517	Actual
2	Saturday	10th AUG	99.16%	10,411	10,323	Actual
3	Sunday	11th AUG	99.01%	7,811	7,733	Actual
4	Monday	12th AUG	98.47%	12,178	11,992	Actual
5	Tuesday	13th AUG	91.69%	12,178	11,166	Actual
<i>Repeat</i>	<i>Wednesday</i>	<i>14th AUG</i>				<i>Forecast</i>
<i>Repeat</i>	<i>Thursday</i>	<i>15th AUG</i>				<i>Forecast</i>
6	Friday	16th AUG	92.28%	12,393	11,437	Actual
7	Saturday	17th AUG	96.95%	10,410	10,093	Actual
8	Sunday	18th AUG	97.42%	7,812	7,610	Actual
9	Monday	19th AUG	97.21%	11,675	11,349	Actual
10	Tuesday	20th AUG	97.15%	11,675	11,342	Actual
11	Wednesday	21st AUG	99.18%	11,785	11,689	Actual
12	Thursday	22nd AUG	96.79%	11,785	11,407	Actual

77,535.85

74,926.95

12 day AVKR

96.90%
