



26 August 2019

City of Ottawa
 O-Train Construction
 110 Laurier Avenue West,
 Ottawa, ON K1P 1J1
 Mail Code: 23-10

Our Reference:	RTG-OTT-00-0-LET-0872
OLRT Reference:	OLR-16-0-0000-TCL-0001_1
Project Agreement Reference:	Schedule 14

Attention: Michael Morgan
 Director, O-Train Construction Office

Subject: Testing Conformance Letter

Dear Mr. Morgan:


Please refer to the attached correspondence from OLRT-C's Testing and Commissioning Director, Steven Nadon, on the above-noted subject matter.

Should you have any questions, or require additional information, please do not hesitate to contact us.

Yours truly,

Peter Lauch, P. Eng.
 CEO
 Rideau Transit Group General Partnership

cc.: Gary Craig, Claudio Colaiacovo, Richard Holder, Lorne Gray – OTC
 Matthew Slade, Steve Nadon, Jacques Bergeron, Derek Wynne, Florica Nye, Bill McCormick, William Coleman, Tyler Miehe, Gonzalo Gomeza, Chris Woodmass – OLRT-C

	Document Title: Testing Conformance Letter	Date Issued
	Document Number : OLR-16-0-0000-TCL-0001_3	August 20th, 2019

To: Peter Lauch, RTG
From: Seven Nadon, Testing & Commissioning Director
CC: Derek Wynne, Systems Engineering & Assurance Manager
Florica Nye, OLRTC Technical Director
Subject: Testing Conformance Letter


Dear Peter,

This letter is to confirm that during the course of systems integration testing, OLRTC has carried out the requisite site surveillance inspections and testing in accordance with standard practice, the requirements of Ottawa Light Rail Transit Project Agreement, and professional industry standards.

These activities were performed and carried out in accordance with the Testing and Commissioning Plan [OLR-16-0-0000-MPL-0001] and with such attendance as required to enable us to provide a final opinion with respect to the efficacy of the functionality of these works in relation to the SITs identified in Appendix A. We note that these tests were passed with only minor deficiencies which are documented in the attendant test report for each SIT.

It is our opinion that in relation to the SITs listed in Appendix A the system is in general compliance with the PA requirements, drawings and system architectures, which will perform together and be safe for use, operation and maintenance, as required.

Yours Sincerely,

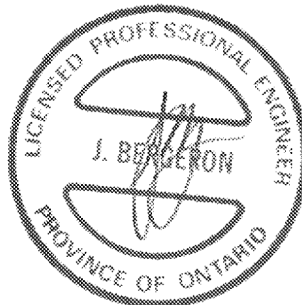



Steven Nadon
Testing and Commissioning Director
OLRT Constructors/Constructeurs

Signed by:




Jacques Bergeron
Systems Integration Director




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APPENDIX A


ID#	Report #	Description	Rev	Status	EOR Sign	Comment	% Complete	Report in 4P
1	RES-16-1-BAST-SIT-1P2051	(eTel & elevator Tel) / SCADA / CCTV SIT - BAY	1	PASS	yes		100%	Yes
2	RES-16-5-BLST-SIT-4R2040	(eTel & elevator Tel) / SCADA / CCTV SIT - BLA	0.1	PASS	yes		100%	Yes
3	RES-16-5-CYST-SIT-4P2041	(eTel & elevator Tel) / SCADA / CCTV SIT - CYR	1	PASS	yes		100%	Yes
4	RES-16-3-HUST-SIT-3P2044	(eTel & elevator Tel) / SCADA / CCTV SIT - HUR	1	PASS	yes		100%	Yes
5	RES-16-3-LEST-SIT-2P2045	(eTel & elevator Tel) / SCADA / CCTV SIT - LEE	1	PASS	yes		100%	Yes
6	RES-16-2-DWSU-SIT-2P2049	(eTel & elevator Tel) / SCADA / CCTV SIT - LYO	0.1	PASS	yes		100%	Yes
7	RES-16-4-MEAB-SIT-5P2039	(eTel & elevator Tel) / SCADA / CCTV SIT - MSF				TEST DELETED. MSF is not a public space so elevator telephone not triggering CCTV	N/A	N/A
8	RES-16-2-DESU-SIT-2P2048	(eTel & elevator Tel) / SCADA / CCTV SIT - PAR	1	PASS	yes		100%	Yes
9	RES-16-1-LBST-SIT-1P2050	(eTel & elevator Tel) / SCADA / CCTV SIT - PIM	1	PASS	yes		100%	Yes
10	RES-16-2-RISU-SIT-2P2047	(eTel & elevator Tel) / SCADA / CCTV SIT - RID	0.1	PASS	yes		100%	Yes
11	RES-16-5-SLSU-SIT-3P2042	(eTel & elevator Tel) / SCADA / CCTV SIT - STL	1	PASS	yes		100%	Yes
12	RES-16-4-TRST-SIT-3P2043	(eTel & elevator Tel) / SCADA / CCTV SIT - TRE	0.1	PASS	yes		100%	Yes
13	RES-16-1-TUST-SIT-1P2052	(eTel & elevator Tel) / SCADA / CCTV SIT - TUN	1	PASS	yes		100%	Yes
14	RES-16-3-CMST-SIT-2P2046	(eTel & elevator Tel) / SCADA / CCTV SIT - UOT	0.1	PASS	yes		100%	Yes
15	RES-16-1-BAST-SIT-1R30207	CTS / SCADA at BAY	0.1	PASS	yes		100%	Yes
16	RES-16-5-BLST-SIT-4R30196	CTS / SCADA at BLA	0.1	PASS	yes		100%	Yes
17	RES-16-5-CYST-SIT-4R30197	CTS / SCADA at CYR	0.1	PASS	yes		100%	Yes
18	RES-16-3-HUST-SIT-3R30200	CTS / SCADA at HUR	0.1	PASS	yes		100%	Yes
19	RES-16-3-LEST-SIT-2R30201	CTS / SCADA at LEE	0.1	PASS	yes		100%	Yes
20	RES-16-2-DWSU-SIT-1R30205	CTS / SCADA at LYO	0.1	PASS	yes		100%	Yes
21	RES-16-2-DESU-SIT-1R30204	CTS / SCADA at PAR	0.1	PASS	yes		100%	Yes
22	RES-16-1-LBST-SIT-1R30206	CTS / SCADA at PIM	0.1	PASS	yes		100%	Yes
23	RES-16-2-RISU-SIT-2R30203	CTS / SCADA at RID	0.1	PASS	yes		100%	Yes

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24	RES-16-5-SLSU-SIT-3R30198	CTS / SCADA at STL	0.1	PASS	yes		100%	Yes
25	RES-16-4-TRST-SIT-3R30199	CTS / SCADA at TRE	0.1	PASS	yes		100%	Yes
26	RES-16-1-TUST-SIT-1R30208	CTS / SCADA at TUN	0.1	PASS	yes		100%	Yes
27	RES-16-3-CMST-SIT-2R30202	CTS / SCADA at UOT	0.1	PASS	yes		100%	Yes
28	RES-16-4-MEAB-SIT-5P30195	CTS / SCADA at Zone 5 (MSF)	0.1	PASS	yes		100%	Yes
29	RES-16-4-MEAB-SIT-5P30194	CTS / System Wide	0	PASS	no	Some deficiencies and deviations noted. The report will reflect the current state of the CTS network and document that it is fully functional.	90%	In Progress
30	RES-16-1-BAST-SIT-1R2093	FDAS / PIS SIT - BAY	0.1	PASS	yes		100%	Yes
31	RES-16-5-BLST-SIT-4R2082	FDAS / PIS SIT - BLA	0.1	PASS	yes		100%	Yes
32	RES-16-5-CYST-SIT-4R2083	FDAS / PIS SIT - CYR	0.1	PASS	yes		100%	Yes
33	RES-16-3-HUST-SIT-3R2086	FDAS / PIS SIT - HUR	0.1	PASS	yes		100%	Yes
34	RES-16-3-LEST-SIT-2R2087	FDAS / PIS SIT - LEE	0.1	PASS	yes		100%	Yes
35	RES-16-2-DWSU-SIT-2R2091	FDAS / PIS SIT - LYO	0.1	PASS	yes		100%	Yes
36	RES-16-4-MEAB-SIT-5P2030	FDAS / PIS SIT - MSF				TEST DELETED: MSF is not a public space, FDAS not intergraded with PA	N/A	N/A
37	RES-16-2-DESU-SIT-2R2090	FDAS / PIS SIT - PAR	0.1	PASS	yes		100%	Yes
38	RES-16-1-LBST-SIT-1R2092	FDAS / PIS SIT - PIM	0.1	PASS	yes		100%	Yes
39	RES-16-2-RISU-SIT-2R2089	FDAS / PIS SIT - RID	0.1	PASS	yes		100%	Yes
40	RES-16-5-SLSU-SIT-3R2084	FDAS / PIS SIT - STL	0.1	PASS	yes		100%	Yes
41	RES-16-4-TRST-SIT-3R2085	FDAS / PIS SIT - TRE	0.1	PASS	yes		100%	Yes
42	RES-16-1-TUST-SIT-1R2094	FDAS / PIS SIT - TUN	0.1	PASS	yes		100%	Yes
43	RES-16-3-CMST-SIT-2R2088	FDAS / PIS SIT - UOT	0.1	PASS	yes		100%	Yes
44	RES-16-0-0000-SIT-OR2068	GIDS / SCADA / CCTV - Portals SIT	1.1	PASS	yes		100%	Yes
45	RES-16-0-0000-SIT-OR2221	GIDS/SCADA/CCTV SIT Stations	1.1	PASS	yes		100%	Yes
46	RES-16-1-BAST-SIT-1P2065	IAC / SCADA / CCTV SIT - BAY	0	PASS	yes		100%	Yes
47	RES-16-5-BLST-SIT-4P2054	IAC / SCADA / CCTV SIT - BLA	0.1	PASS	yes	2 defects listed, tracked in Unifier as a minor deficiency. Rework and retest prior to December 2019.	92%	Yes
48	RES-16-5-CYST-SIT-4P2055	IAC / SCADA / CCTV SIT - CYR	1	PASS	yes		100%	Yes

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49	RES-16-3-HUST-SIT-3P2058	IAC / SCADA / CCTV SIT - HUR	0.1	PASS	yes		100%	Yes
50	RES-16-3-LEST-SIT-2P2059	IAC / SCADA / CCTV SIT - LEE	0.1	PASS	yes	1 defect listed, tracked in Unifier as a minor deficiency. Rework and retest prior to December 2019.	85%	Yes
51	RES-16-2-DWSU-SIT-2P2063	IAC / SCADA / CCTV SIT - LYO	0.1	PASS	yes	3 defects listed, tracked in Unifier as a minor deficiency. Rework and retest prior to December 2019.	97%	Yes
52	RES-16-4-MEAB-SIT-5P2053	IAC / SCADA / CCTV SIT - MSF				The MSF testing is not complete and added to the minor deficiency list. Testing will be completed by December 2019.	21%	No
53	RES-16-2-DESU-SIT-2R2062	IAC / SCADA / CCTV SIT - PAR	0.1	PASS	yes	2 defects listed, tracked in Unifier as a minor deficiency. Rework and retest prior to December 2019.	98%	Yes
54	RES-16-1-LBST-SIT-1R2064	IAC / SCADA / CCTV SIT - PIM	0.1	PASS	yes	3 defects listed, tracked in Unifier as a minor deficiency. Rework and retest prior to December 2019.	83%	Yes
55	RES-16-2-RISU-SIT-2R2061	IAC / SCADA / CCTV SIT - RID	0.1	PASS	yes		100%	Yes
56	RES-16-5-SLSU-SIT-3R2056	IAC / SCADA / CCTV SIT - STL	0.1	PASS	yes	1 defect listed, tracked in Unifier as a minor deficiency. Rework and retest prior to December 2019.	97%	Yes
57	RES-16-4-TRST-SIT-3R2057	IAC / SCADA / CCTV SIT - TRE	0.1	PASS	yes		100%	Yes
58	RES-16-1-TUST-SIT-1R2066	IAC / SCADA / CCTV SIT - TUN	0.1	PASS	yes	1 defect listed, tracked in Unifier as a minor deficiency. Rework and retest prior to December 2019.	91%	Yes
59	RES-16-3-CMST-SIT-2R2060	IAC / SCADA / CCTV SIT - UOT	0.1	PASS	yes	2 defects listed, tracked in Unifier as a minor deficiency. Rework and retest prior to December 2019.	80%	Yes
60	RES-16-0-0000-SIT-OR2069	Master Clock / Comms SIT	0	PASS	yes		100%	Yes
61	RES-16-0-0000-SIT-OR2033	PIS / SCADA / CBTC SIT – MSF & Stations	0	PASS	no	Report in 4P for EoR signoff.	100%	Yes
62	RES-16-1-BAST-SIT-1R2164	SCADA / Station & Systems, Local SIT - BAY	0	PASS	yes		100%	Yes
63	RES-16-5-BLST-SIT-4R2153	SCADA / Station & Systems, Local SIT - BLA	1	PASS	yes		100%	Yes
64	RES-16-5-CYST-SIT-4R2154	SCADA / Station & Systems, Local SIT - CYR	0.1	PASS	yes		100%	Yes
65	RES-16-3-HUST-SIT-3R2157	SCADA / Station & Systems, Local SIT - HUR	0.1	PASS	yes		100%	Yes
66	RES-16-3-LEST-SIT-2R2158	SCADA / Station & Systems, Local SIT - LEE	1	PASS	yes		100%	Yes
67	RES-16-2-DWSU-SIT-2R2162	SCADA / Station & Systems, Local SIT - LYO	0.1	PASS	yes	8 defects listed, tracked in Unifier as a minor deficiency. Rework and retest prior to December 2019.	97%	Yes

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68	RES-16-4-MEAB-SIT-5R2152	SCADA / Station & Systems, Local SIT - MSF				The MSF testing is not complete and added to the minor deficiency list. Testing will be completed by December 2019.	45%	No
69	RES-16-2-DESU-SIT-2R2161	SCADA / Station & Systems, Local SIT - PAR	0.1	PASS	yes	3 defects listed, tracked in Unifier as a minor deficiency. Rework and retest prior to December 2019.	97%	Yes
70	RES-16-1-LBST-SIT-1R2163	SCADA / Station & Systems, Local SIT - PIM	0	PASS	yes	1 defect listed, tracked in Unifier as a minor deficiency. Rework and retest prior to December 2019.	98%	Yes
71	RES-16-2-RISU-SIT-2R2160	SCADA / Station & Systems, Local SIT - RID	0.1	PASS	yes	5 defects listed, tracked in Unifier as a minor deficiency. Rework and retest prior to December 2019.	95%	Yes
72	RES-16-5-SLSU-SIT-3R2155	SCADA / Station & Systems, Local SIT - STL	0.1	PASS	yes		100%	Yes
73	RES-16-4-TRST-SIT-3R2156	SCADA / Station & Systems, Local SIT - TRE	1	PASS	yes		100%	Yes
74	RES-16-1-TUST-SIT-1R2165	SCADA / Station & Systems, Local SIT - TUN	1	PASS	yes		100%	Yes
75	RES-16-3-CMST-SIT-2R2159	SCADA / Station & Systems, Local SIT - UOT	2	PASS	yes		100%	Yes
76	RES-16-1-BAST-SIT-1R2150	SCADA / Station & Systems, Remote SIT - BAY	0.1	PASS	yes		100%	Yes
77	RES-16-5-BLST-SIT-4R2139	SCADA / Station & Systems, Remote SIT - BLA	1	PASS	yes		100%	Yes
78	RES-16-5-CYST-SIT-4R2140	SCADA / Station & Systems, Remote SIT - CYR	0.1	PASS	yes		100%	Yes
79	RES-16-3-HUST-SIT-3R2143	SCADA / Station & Systems, Remote SIT - HUR	0.1	PASS	yes		100%	Yes
80	RES-16-3-LEST-SIT-2R2144	SCADA / Station & Systems, Remote SIT - LEE	1	PASS	yes		100%	Yes
81	RES-16-2-DWSU-SIT-2R2148	SCADA / Station & Systems, Remote SIT - LYO	0.1	PASS	yes	8 defects listed, tracked in Unifier as a minor deficiency. Rework and retest prior to December 2019.	94%	Yes
82	RES-16-4-MEAB-SIT-5P2038	SCADA / Station & Systems, Remote SIT - MSF				The MSF testing is not complete and added to the minor deficiency list. Testing will be completed by December 2019.	45%	No
83	RES-16-2-DESU-SIT-2R2147	SCADA / Station & Systems, Remote SIT - PAR	0.1	PASS	yes	3 defects listed, tracked in Unifier as a minor deficiency. Rework and retest prior to December 2019.	97%	Yes
84	RES-16-1-LBST-SIT-1R2149	SCADA / Station & Systems, Remote SIT - PIM	0.1	PASS	yes	1 defect listed, tracked in Unifier as a minor deficiency. Rework and retest prior to December 2019.	98%	Yes
85	RES-16-2-RISU-SIT-2R2146	SCADA / Station & Systems, Remote SIT - RID	0.1	PASS	yes	5 defects listed, tracked in Unifier as a minor deficiency. Rework and retest prior to December 2019.	95%	Yes
86	RES-16-5-SLSU-SIT-3R2141	SCADA / Station & Systems, Remote SIT - STL	0.1	PASS	yes		100%	Yes

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87	RES-16-4-TRST-SIT-3R2142	SCADA / Station & Systems, Remote SIT - TRE	1	PASS	yes		100%	Yes
88	RES-16-1-TUST-SIT-1R2151	SCADA / Station & Systems, Remote SIT - TUN	1	PASS	yes		100%	Yes
89	RES-16-3-CMST-SIT-2R2145	SCADA / Station & Systems, Remote SIT - UOT	1	PASS	yes		100%	Yes
90	RES-16-1-TP01-SIT-1R2103	SCADA / TPSS, Local SIT - TPSS 1	0.1	PASS	yes		100%	Yes
91	RES-16-1-TP02-SIT-1R2102	SCADA / TPSS, Local SIT - TPSS 2	1.1	PASS	yes		100%	Yes
92	RES-16-2-TP03-SIT-2R2101	SCADA / TPSS, Local SIT - TPSS 3	0.1	PASS	yes		100%	Yes
93	RES-16-3-TP04-SIT-2R2100	SCADA / TPSS, Local SIT - TPSS 4	1.1	PASS	yes		100%	Yes
94	RES-16-3-TP05-SIT-3R2099	SCADA / TPSS, Local SIT - TPSS 5	1.1	PASS	yes		100%	Yes
95	RES-16-4-TP06-SIT-3R2098	SCADA / TPSS, Local SIT - TPSS 6	2.1	PASS	yes		100%	Yes
96	RES-16-3-TP07-SIT-4R2097	SCADA / TPSS, Local SIT - TPSS 7	1.1	PASS	yes		100%	Yes
97	RES-16-3-TP08-SIT-4R2096	SCADA / TPSS, Local SIT - TPSS 8	1.1	PASS	yes		100%	Yes
98	RES-16-4-TP10-SIT-5R2031	SCADA / TPSS, Local SIT - TPSS-SHOP (10)	0.1	PASS	yes		100%	Yes
99	RES-16-4-TP09-SIT-5P2095	SCADA / TPSS, Local SIT - TPSS-YARD (9)	0.1	PASS	yes		100%	Yes
100	RES-16-1-TP01-SIT-1R2112	SCADA / TPSS, Remote SIT - TPSS 1	0.1	PASS	yes	1 defect listed, tracked in Unifier as a minor deficiency. Rework and retest prior to December 2019.	99%	Yes
101	RES-16-1-TP02-SIT-1R2111	SCADA / TPSS, Remote SIT - TPSS 2	0.1	PASS	yes	2 defects listed, tracked in Unifier as a minor deficiency. Rework and retest prior to December 2019.	98%	Yes
102	RES-16-2-TP03-SIT-2R2110	SCADA / TPSS, Remote SIT - TPSS 3	0.1	PASS	yes	1 defect listed, tracked in Unifier as a minor deficiency. Rework and retest prior to December 2019.	98%	Yes
103	RES-16-3-TP04-SIT-2R2109	SCADA / TPSS, Remote SIT - TPSS 4	0.1	PASS	yes	4 defects listed, tracked in Unifier as a minor deficiency. Rework and retest prior to December 2019.	96%	Yes
104	RES-16-3-TP05-SIT-3R2108	SCADA / TPSS, Remote SIT - TPSS 5	0.1	PASS	yes	1 defect listed, tracked in Unifier as a minor deficiency. Rework and retest prior to December 2019.	99%	Yes
105	RES-16-4-TP06-SIT-3R2107	SCADA / TPSS, Remote SIT - TPSS 6	0.1	PASS	yes	2 defects listed, tracked in Unifier as a minor deficiency. Rework and retest prior to December 2019.	97%	Yes
106	RES-16-3-TP07-SIT-4R2106	SCADA / TPSS, Remote SIT - TPSS 7	0.1	PASS	yes	1 defect listed, tracked in Unifier as a minor deficiency. Rework and retest prior to December 2019.	99%	Yes
107	RES-16-3-TP08-SIT-4R2105	SCADA / TPSS, Remote SIT - TPSS 8	0	PASS	yes	1 defect listed, tracked in Unifier as a minor deficiency. Rework and retest prior to	99%	Yes

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108	RES-16-4-TP10-SIT-5P2104	SCADA / TPSS, Remote SIT - TPSS-SHOP (10)	0.1	PASS	yes	4 defects listed, tracked in Unifier as a minor deficiency. Rework and retest prior to December 2019.	89%	Yes
109	RES-16-4-TP09-SIT-5R2032	SCADA / TPSS, Remote SIT - TPSS-YARD (9)	0	PASS	yes	8 defects listed, tracked in Unifier as a minor deficiency. Rework and retest prior to December 2019.	86%	Yes
110	RES-16-8-0000-SIT-0R7175	Maintenance Vehicle Clearance Test-signed	1.1	PASS	yes		100%	Yes
111	OLR-16-0-0000-SIT-0R8185	CBTC Vehicle Spin Slide	0	PASS	no	Rejected by city and V&V. We deviated from the test. Additional test data is submitted as per the Thales SAT. Excerpts will be extracted and added to the SIT-0R8185 for close-out.	100%	Yes
112	OLR-16-0-0000-SIT-0R3215	Winter Operations and Snow & Water Fording of Vehicles	0	PASS	no	Report in 4P for EoR signoff.	100%	Yes
113	RES-16-8-0000-SIT-0R3216	Demonstrated End to End Travel Time	1	PASS	no	Report in 4P for EoR signoff.	100%	Yes
114	RES-16-8-0000-SAT-5P4034	MSF Yard Level Crossings				The Yard gates are all secured with chains and padlocks until they are tested for SCADA activation. Temporary SOP has been issued.	54%	No
115	RES-16-8-0000-SAT-1R4039	Vehicle Envelope Clearance Zone 1	1	PASS	no	Report in 4P for EoR signoff.	100%	Yes
116	RES-16-8-0000-SAT-2R4038	Vehicle Envelope Clearance Zone 2	0	PASS	no	Report in 4P for EoR signoff.	100%	Yes
117	RES-16-8-0000-SAT-3R4037	Vehicle Envelope Clearance Zone 3	1.1	PASS	yes		100%	Yes
118	RES-16-8-0000-SAT-4R4036	Vehicle Envelope Clearance Zone 4	0.1	PASS	yes		100%	Yes
119	RES-16-8-0000-SAT-5R4035	Vehicle Envelope Clearance Zone 5	1	PASS	yes		100%	Yes
120	OLR-16-4-MEAB-SIT-5R8220	Yard CBTC Emergency Stop Buttons	0.1	Failed	yes	PL are under MSF, tracked in Unifier – they will be Re-tested during Phase 2 works (Yard in UTO). Target completion is July 2020.	100%	Yes
121	RES-16-8-0000-SIT-3R1026	Automatic Transfer Switch - HOL Blocking - St Laurent Station	0.1	PASS	yes		100%	Yes
122	RES-16-8-0000-SIT-2R1027	Automatic Transfer Switch - HOL Blocking - Underground Stations (Lyon, Parliament, and Rideau)	0.1	PASS	yes		100%	Yes
123	RES-16-8-0000-SAT-1R1007	Electrical Switch Heater, Zone 1	0.1	PASS	yes		100%	Yes
124	RES-16-8-0000-SAT-2R1007	Electrical Switch Heater, Zone 2	0.1	PASS	yes		100%	Yes
125	RES-16-8-0000-SAT-3R1007	Electrical Switch Heater, Zone 3	0.1	PASS	yes		100%	Yes
126	RES-16-8-0000-SAT-4R1007	Electrical Switch Heater, Zone 4	0.1	PASS	yes		100%	Yes

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127	RES-16-0-0000-SIT-OP1029	HOL Neutral Bond Testing, TPSS1	0	PASS	no		100%	In Progress
128	RES-16-0-0000-SIT-OP1029	HOL Neutral Bond Testing, TPSS2	0	PASS	no		100%	In Progress
129	RES-16-0-0000-SIT-OP1029	HOL Neutral Bond Testing, TPSS3	0	PASS	no		100%	In Progress
130	RES-16-0-0000-SIT-OP1029	HOL Neutral Bond Testing, TPSS4	0	PASS	no		100%	In Progress
131	RES-16-0-0000-SIT-OP1029	HOL Neutral Bond Testing, TPSS5	0	PASS	no		100%	In Progress
132	RES-16-0-0000-SIT-OP1029	HOL Neutral Bond Testing, TPSS6	0	PASS	no		100%	In Progress
133	RES-16-0-0000-SIT-OP1029	HOL Neutral Bond Testing, TPSS7	0	PASS	no		100%	In Progress
134	RES-16-0-0000-SIT-OP1029	HOL Neutral Bond Testing, TPSS8	0	PASS	no		100%	In Progress
135	RES-16-0-0000-SIT-OP1029	HOL Neutral Bond Testing, TPSS9	0	PASS	no		100%	In Progress
136	RES-16-1-TP01-SIT-1R1029	HOL Neutral Bond Testing (Baseline), TPSS1	0.2	PASS	yes		100%	Yes
137	RES-16-1-TP02-SIT-1R1029	HOL Neutral Bond Testing (Baseline), TPSS2	0.2	PASS	yes		100%	Yes
138	RES-16-2-TP03-SIT-2R1029	HOL Neutral Bond Testing (Baseline), TPSS3	0.1	PASS	yes		100%	Yes
139	RES-16-3-TP04-SIT-2R1029	HOL Neutral Bond Testing (Baseline), TPSS4	1.2	PASS	yes		100%	Yes
140	RES-16-3-TP05-SIT-3R1029	HOL Neutral Bond Testing (Baseline), TPSS5	1.2	PASS	yes		100%	Yes
141	RES-16-4-TP06-SIT-3R1029	HOL Neutral Bond Testing (Baseline), TPSS6	0.1	PASS	yes		100%	Yes
142	RES-16-5-TP07-SIT-4R1029	HOL Neutral Bond Testing (Baseline), TPSS7	1.1	PASS	yes		100%	Yes
143	RES-16-5-TP08-SIT-4R1029	HOL Neutral Bond Testing (Baseline), TPSS8	1.1	PASS	yes		100%	Yes
144	RES-16-4-TP09-SIT-5R1029	HOL Neutral Bond Testing (Baseline), TPSS9	1.1	PASS	yes		100%	Yes
145	RES-16-8-0000-SIT-1R1020	OCS / Pantograph Interaction (Normal) - Zone 1	0.1	PASS	yes		100%	Yes
146	RES-16-8-0000-SIT-2R1021	OCS / Pantograph Interaction (Normal) - Zone 2	1	PASS	yes		100%	Yes
147	RES-16-8-0000-SIT-3R1022	OCS / Pantograph Interaction (Normal) - Zone 3	1	PASS	yes		100%	Yes
148	RES-16-8-0000-SIT-4R1023	OCS / Pantograph Interaction (Normal) - Zone 4	1.1	PASS	yes		100%	Yes
149	RES-16-8-0000-SIT-5R1019	OCS / Pantograph Interaction (Normal) - Zone 5	0.1	PASS	yes		100%	Yes
150	RES-16-8-0000-SIT-1R1015	OCS / Pantograph Interaction (Slow) - Zone 1	1.1	PASS	yes		100%	Yes
151	RES-16-8-0000-SIT-2R1016	OCS / Pantograph Interaction (Slow) - Zone 2	0.1	PASS	yes		100%	Yes

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152	RES-16-8-0000-SIT-3R1017	OCS / Pantograph Interaction (Slow) - Zone 3	0.1	PASS	yes		100%	Yes
153	RES-16-8-0000-SIT-4R1018	OCS / Pantograph Interaction (Slow) - Zone 4	0.1	PASS	yes		100%	Yes
154	RES-16-8-0000-SIT-5R1014	OCS / Pantograph Interaction (Slow) - Zone 5	1.1	PASS	yes		100%	Yes
155	RES-16-8-0000-SIT-1R1010	OCS Electrification - Zone 1	2.1	PASS	yes		100%	Yes
156	RES-16-8-0000-SIT-2R1011	OCS Electrification - Zone 2	0.1	PASS	yes		100%	Yes
157	RES-16-8-0000-SIT-3R1012	OCS Electrification - Zone 3	1.1	PASS	yes		100%	Yes
158	RES-16-8-0000-SIT-4R1013	OCS Electrification - Zone 4	1.2	PASS	yes		100%	Yes
159	RES-16-8-0000-SIT-5R1009	OCS Electrification - Zone 5 (MSF)	0.1	PASS	yes		100%	Yes
160	RES-16-8-0000-SAT-1R1030	OCS Electrical Connection Verification - Zone 1	1	PASS	yes		100%	Yes
161	RES-16-8-0000-SAT-2R1031	OCS Electrical Connection Verification - Zone 2	1.1	PASS	yes		100%	Yes
162	RES-16-8-0000-SAT-3R1032	OCS Electrical Connection Verification - Zone 3	0.1	PASS	yes		100%	Yes
163	RES-16-8-0000-SAT-4R1033	OCS Electrical Connection Verification - Zone 4	1.1	PASS	yes		100%	Yes
164	RES-16-8-0000-SAT-5R1029	OCS Electrical Connection Verification - Zone 5 (MSF)	1.1	PASS	yes		100%	Yes
165	RES-16-8-0000-SAT-5R1001	SAT Rail Sectioning Procedure	0.2	PASS	yes		100%	Yes
166	RES-16-0-0000-SIT-0R1025	SIT DC Short Circuit Test Procedure	0.1	PASS	yes		100%	Yes
167	RES-16-4-MEAB-SIT-5R1166	SIT PSD / Shop DC Distribution and Stinger	1.1	PASS	yes	4 defects listed, tracked in Unifier. These defects will only be corrected and tested when the train production is complete after phase 2. Scheduled re-test is July 2020.	100%	Yes
168	RES-16-0-0000-SIT-0R1024	TPSS Failure	0.1	PASS	yes		100%	Yes
169	RES-16-4-0000-SAT-5R1011	Track Switch Heater System (Gas)	0	PASS	yes		100%	Yes
170	RES-16-1-TP01-SIT-1R1001	Transfer Trip TPSS 1	0.1	PASS	yes		100%	Yes
171	RES-16-1-TP02-SIT-1R1002	Transfer Trip TPSS 2	1.1	PASS	yes		100%	Yes
172	RES-16-2-TP03-SIT-2R1003	Transfer Trip TPSS 3	1.1	PASS	yes		100%	Yes
173	RES-16-3-TP04-SIT-2R1004	Transfer Trip TPSS 4	1.1	PASS	yes		100%	Yes
174	RES-16-3-TP05-SIT-3R1005	Transfer Trip TPSS 5	1.1	PASS	yes		100%	Yes
175	RES-16-4-TP06-SIT-3R1006	Transfer Trip TPSS 6	1.1	PASS	yes		100%	Yes
176	RES-16-5-TP07-SIT-4R1007	Transfer Trip TPSS 7	1.1	PASS	yes		100%	Yes
177	RES-16-5-TP08-SIT-4R1008	Transfer Trip TPSS 8	0.1	PASS	yes		100%	Yes

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178	RES-16-8-0000-SAT-1R1003	Wayside Disconnect Switch, Zone 1	0.1	PASS	yes	100%	Yes
179	RES-16-8-0000-SAT-2R1004	Wayside Disconnect Switch, Zone 2	0.1	PASS	yes	100%	Yes
180	RES-16-8-0000-SAT-3R1005	Wayside Disconnect Switch, Zone 3	0.1	PASS	yes	100%	Yes
181	RES-16-8-0000-SAT-4R1006	Wayside Disconnect Switch, Zone 4	0.1	PASS	yes	100%	Yes
182	RES-16-8-0000-SAT-5R1002	Wayside Disconnect Switch, Zone 5	0.1	PASS	yes	100%	Yes
183	RES-16-8-0000-SIT-0R1002	Wayside Disconnect Switch, Zone 1 to 4	0.1	PASS	yes	100%	Yes
184	RES-16-8-0000-SIT-5R1170	Wayside Disconnect Switch, Zone 5	0.1	PASS	yes	100%	Yes
185	RES-16-2-DWSU-SAT-2R3026	TVS Electrical SAT - Lyon	1.1	PASS	yes	100%	Yes
186	RES-16-2-DESU-SAT-2R3027	TVS Electrical SAT - Parliament	0.1	PASS	yes	100%	Yes
187	RES-16-2-RISU-SAT-2R3028	TVS Electrical SAT - Rideau	1.1	PASS	yes	100%	Yes
188	RES-16-5-SLSU-SAT-3R3025	TVS Electrical SAT - St Laurent	0.1	PASS	yes	100%	Yes
189	RES-16-2-EPTU-SAT-2P3040	TVS ICP and Control Panels SAT - East Portal	0.1	PASS	yes	100%	Yes
190	RES-16-2-DWSU-SAT-2R3018	TVS ICP and Control Panels SAT - Lyon	0.1	PASS	yes	100%	Yes
191	RES-16-2-DESU-SAT-2R3019	TVS ICP and Control Panels SAT - Parliament	0.1	PASS	yes	100%	Yes
192	RES-16-2-RISU-SAT-2R3020	TVS ICP and Control Panels SAT - Rideau	0.1	PASS	yes	100%	Yes
193	RES-16-5-SLSU-SAT-3R3017	TVS ICP and Control Panels SAT - St Laurent	0.1	PASS	yes	100%	Yes
194	RES-16-2-WPTU-SAT-2R3041	TVS ICP and Control Panels SAT - West Portal	0.1	PASS	yes	100%	Yes
195	RES-16-2-DWSU-SAT-2R3022	TVS Mechanical SAT - Lyon	1.1	PASS	yes	100%	Yes
196	RES-16-2-DESU-SAT-2R3023	TVS Mechanical SAT - Parliament	1.1	PASS	yes	100%	Yes
197	RES-16-2-RISU-SAT-2R3024	TVS Mechanical SAT - Rideau	1.1	PASS	yes	100%	Yes
198	RES-16-5-SLSU-SAT-3R3021	TVS Mechanical SAT - St Laurent	0.1	PASS	yes	100%	Yes
199	RES-16-2-DWSU-SAT-2R3014	TVS PLC SAT - Lyon	1.1	PASS	yes	100%	Yes
200	RES-16-2-DESU-SAT-2R3015	TVS PLC SAT - Parliament	1.1	PASS	yes	100%	Yes
201	RES-16-2-RISU-SAT-2R3016	TVS PLC SAT - Rideau	1.1	PASS	yes	100%	Yes
202	RES-16-5-SLSU-SAT-3R3013	TVS PLC SAT - St Laurent	1	PASS	yes	100%	Yes
203	RES-16-5-SLSU-SIT-3R3078	TVS SIT - St Laurent	1.2	PASS	yes	100%	Yes
204	RES-16-8-0000-SIT-2R3079	TVS SIT - Zone 2	1.1	PASS	yes	100%	Yes
205	RES-16-2-DWSU-SIT-2R3073	TVS/Station SIT - Lyon	1.2	PASS	yes	100%	Yes

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206	RES-16-2-DESU-SIT-2R3074	TVS/Station SIT - Parliament	1.2	PASS	yes		100%	Yes	
207	RES-16-2-RISU-SIT-2R3075	TVS/Station SIT - Rideau	1.2	PASS	yes		100%	Yes	
208	OLR-16-8-0000-SIT-5R4167	Guideway Operational Signage - Zone 5 (MSF)	0	PASS	no	31 defects listed, tracked in Unifier. The MSF yard signage will be updated when we complete the works for UTO, phase 2. To be completed by July 2020.	100%	Yes	
209	RES-16-8-0000-SIT-4R4168	Guideway Operational Signage - Zone 4	1	PASS	no	5 defects listed, tracked in Unifier, none are safety related; they are OCS pole chainage markers. To be completed by December 2019.	100%	Yes	
210	RES-16-8-0000-SIT-3R4169	Guideway Operational Signage - Zone 3	1	PASS	no	4 defects listed, tracked in Unifier, none are safety related; they are OCS pole chainage markers. To be completed by December 2019.	100%	Yes	
211	RES-16-8-0000-SIT-2R4170	Guideway Operational Signage - Zone 2	1	PASS	no	2 defects listed, tracked in Unifier, none are safety related. The warning signs on the dampers are not bilingual. To be completed by December 2019.	100%	Yes	
212	RES-16-8-0000-SIT-1R4171	Guideway Operational Signage - Zone 1	1	PASS	no	7 defects listed, tracked in Unifier, none are safety related; they are OCS pole chainage markers. To be completed by December 2019.	100%	Yes	
213	RES-16-5-BLST-SIT-4P3188	SCADA / HSDR / Vehicle Comms SIT - BLA	0	PASS	yes		100%	Yes	
214	RES-16-4-MEAB-SIT-5P3188	SCADA / HSDR / Vehicle Comms SIT - MSF	0	PASS	yes		100%	Yes	
215	RES-16-5-SLSU-SIT-3R8178	CBTC / FDAS End-to-end Functionality - St Laurent	0.1	PASS	yes		100%	Yes	
216	RES-16-8-0000-SIT-2R8179	CBTC / FDAS End-to-end Functionality - Zone 2	0.1	PASS	yes		100%	Yes	
217	RES-16-0-0000-SIT-5R7173	Light Rail Vehicle / High Rail Vehicle	0.1	PASS	yes		100%	Yes	
218	RES-16-0-0000-SIT-0P7176	High Rail Vehicle / Train Control System	THIS SIT IS CANCELLED. THERE WILL BE NO HIGH RAIL VEHICLES ON THE MAINLINE WHILE TRAINS ARE IN OPERATION.					N/A	N/A
219	RES-16-8-0000-SIT-0R7222	Light Rail Vehicle / CCTV (wayside)	0.1	Failed	yes	Re-test when Alstom PAPIS software is ready, target is early September. There is a Plan B in place to have stations manned if this is not completed when passengers begin using the service.	100%	Yes	
220	RES-16-0-0000-SIT-0R3223	Platform Inter-Car Barrier / coupled Train Integration (non-CCN)	1.1	PASS	yes		100%	Yes	
221	RES-16-4-0000-SIT-3R30225	MSF Access Track Smoke Testing Test Procedure	0.2	PASS	yes		100%	Yes	
222	RES-16-0-0000-SIT-0P30236	FDAS SIT - System Wide	THIS SIT IS CANCELLED. ALL TESTS HAVE BEEN EXECUTED BY STATIONS WITH					N/A	N/A

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			BCS AND OPS					
223	RES-16-0-0000-SIT-OR30237	UPS Emergency Load Capacity SIT	1.1	PASS	yes		100%	Yes
224	RES-16-0-0000-SIT-OR30238	Video Wall - TSCC/BCC/YCC SIT	0.1	PASS	yes		100%	Yes
225	RES-16-0-0000-SIT-OR30234	GIDS/CBTC System Wide	0.1	PASS	yes		100%	Yes
226	RES-16-0-0000-SIT-OP30235	Telephony System Wide				This SIT is a minor deficiency and does not affect rail operations.	77%	No
227	RES-16-0-0000-SIT-OP30329	Network Management System (NMS) System Wide				This SIT is a minor deficiency and does not affect rail operations. It is a diagnostic tool for RTM maintenance staff.	0%	No
228	RES-16-0-0000-SIT-OP30240	Advanced Traveler Information System SIT	0	PASS	no		100%	Yes
229	RES-16-0-0000-SIT-OP3224	System Integration Test, Tunnel Ventilation System -- End-to-End	1	PASS	yes		100%	Yes
230	RES-16-2-DWSU-SIT-2R30230	TVS to SCADA Local SIT - Lyon	0.1	PASS	yes		100%	Yes
231	RES-16-2-DESU-SIT-2R30231	TVS to SCADA Local SIT - Parliament	0.1	PASS	yes		100%	Yes
232	RES-16-2-RISU-SIT-2R30232	TVS to SCADA Local SIT - Rideau	0.1	PASS	yes		100%	Yes
233	RES-16-5-SLSU-SIT-3R30233	TVS to SCADA Local SIT - St-Laurent	0.1	PASS	yes		100%	Yes
234	RES-16-2-DWSU-SIT-2R30227	TVS/SCADA Remote SIT - Lyon	0.1	PASS	yes		100%	Yes
235	RES-16-2-DESU-SIT-2R30229	TVS/SCADA Remote SIT - Parliament	0.1	PASS	yes		100%	Yes
236	RES-16-2-RISU-SIT-2R30228	TVS/SCADA Remote SIT - Rideau	0.1	PASS	yes		100%	Yes
237	RES-16-5-SLSU-SIT-3R30226	TVS/SCADA Remote SIT - St-Laurent	0.1	PASS	yes		100%	Yes
238	RES-16-4-MEAB-SIT-5R5191	Control Center / CBTC SIT	0.1	PASS	yes		100%	Yes
239	RES-16-4-MEAB-SIT-5R5192	Control Center / Comms Systems SIT	0.1	PASS	yes		100%	Yes
240	RES-16-0-0000-SIT-OR30242	System Operating Procedures Demonstration	2	PASS	yes	2 defects listed, they will be Re-tested during Phase 2 works (Yard in UTO). Target completion is July 2020.	90%	Yes