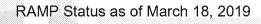
Transportation Services Department Rail Activation Management Program (RAMP)

Pre- Report to Program Management Team





U

Status Definitions

- Item is complete it is expected that no further reporting will be required.
- Item is on the original schedule or on a credible recovery schedule that enables achievement of the revenue service date; and, there are no quality /effectiveness issues of concern without a plan in place to address them.
- There deviation from the schedule, recovery required; and/or, there are quality/effectiveness issues of concern that will be difficult to address; executive support or decision-making may be required.
- Not yet applicable.



1

		Action Items		
#	Assigned to	Description	Date due	Status
1	OTC / RTG	Vehicles and Retrofits – RFI-P-ALS 1021 October 19/18 - Richard to follow-up on RFI – P – ALS 1021 provided by RTG week of October 9. re: vehicles and retrofits November 27/18- Discussion has taken place – formal letter to follow February 25/19 - Poor application of intumescent paint acknowledged during final inspection, rework necessary. Validation of paint thickness is still required before relief can be provided.	March 19/19	Open
		Vehicles – remaining deficiencies Feb 26/19 - Richard and Rupert to review list of remaining vehicle deficiencies.		
		Vehicles - EDR Feb 26/19 - RTG (Alstom) to provide formal communication that the issue with the EDR on vehicles is resolved		
3	OLRTC	TVS Hot Smoke Test OLRTC to confirm the date of the hot smoke test in the tunnel. Date to be provided in advance of the test. Date of March 9 was provided at the February 26 RAMP mtg.	ASAP	Open
4	отс	February 25/19 - The Controllers have moved into the TOCC, there is still functionality that is outstanding-SCADA and issues that require attention. OTC/OCT to arrange a meeting with the appropriate people from OCT/OTC and OLRTC to discuss deficiencies and outstanding items regarding the functionality of the TOCC.	March 8/19	Open
6	отс	Safety Assurance February 26/19 - Michael and Richard to review safety certificate from Thales for the train control system. Michael and Richard to review safety certificate from Thales for the train control system. Michael and Richard to provide Rupert with a list that highlight OTC's concerns with the conditions.	March 8/19	Open
8	OLRT-C	Practice Plan October 17&31/18 - To provide the detailed test procedure for trial running. In addition, what is planned for pre-trial running and when will pre-trial running take place.	ASAP	Open
9	OTC / RTG	February 25/19 - Trial running procedure still to be provided by RTG Maintenance Readiness & Winter Operations	March 8/19	Open
		Spare Parts on Hand Date for when Spare Parts on Hand will be resolved. February 25/19 - RTG has provided electronic spare parts list. Still under review and being verified in the field		
		IMIRS February 26/19 - Peter to take away the missing Alstom information from IMIRS and report back Maintenance and Rehabilitation Plan Richard to provide a detailed list of the missing documentation for the Maintenance and Rehabilitation Plan. Following receipt Peter to review and provide response.		

10 Critical Elements

#	Element	Status	Comments
1	Vehicles (34)		All 34 vehicles assembled and DPICO'd. No vehicle has final acceptance.
2	Station Occupancy Permits (13)		BCS issued Occupancy Permits for 2 stations – Pimisi and Bayview
3	Tunnel Ventilation System (TVS)		TVS SIT complete for all four tunnel stations. Result and deficiencies not yet provided to the City.
4	TOCC / SCADA		ERCs operating in TOCC with deficiencies outstanding.
5	Power / Catenary		Final load testing required; root cause for recent failure modes required.
6	Safety Assurance		ESAC review indicates outstanding work
7	СВТС		Pending Thales 5.03 software update
8	Practice Plan		Dates not yet scheduled. Trial Running Test Procedure – not yet delivered.
9	Maintenance Readiness & Winter Operations		Final winter maintenance plan and winter corrective action plan required
10	Integrated Project Close-Out Execution		



Go / No Go List

- IIII On track with demonstrated progress on criteria; not expected to prevent the system from opening on the current scheduled date ("Go")
- Off track; significant possibility that this will prevent the system from opening on the current scheduled date ("No Go")

Theme	Criteria for Start of Service	Status	Comments
0-4-4-	No outstanding safety defects		
Safety	No reliability issues that degrade safe operation		
People	Staff & stakeholders: Fully mobilized		EROs, ERCs not yet certified. Training and OJT continue and will continue up to start of Revenue Service. OCT Customer Service Staff and Stakeholder plan in development, not yet implemented.
	Civil and Class 5 track work: 100%		Issues with switch heater performance. Track to e resistance not fully demonstrated
Guideway	Bus network and bus loops fully functional		Hurdman bus test complete. Tunney's Pasture bu test scheduled for March 31. Blair bus test TBD. N bus route network planning and scheduling compl
	No major impacts to customer experience		OCT/OTC deficiencies provided to OLRTC
	Fire systems: 100%		
Stations	Lighting systems: 100%		
	Elevators & escalators: 100%		TSSA approval of plywood variance and certification remains pending.
Vehicles	Thirty-four trains including Bill of Sale		Not yet complete. 34 vehicles assembled. No vehicles has final acceptance
	Trains ready as per Vehicle Minimum Operating Standard		
	No major impacts to customer experience		
Systems	Radio; tunnel ventilation system, train control, and traction power are 100% operational		Not yet complete
	System performance during Trial Running is sufficiently robust/resilient to absorb service impacts		Trial running not yet complete
Maintenance	Contractual requirements fulfilled, RTM mobilized		

Overall		Works Schedule no test validation out		tom schedule.
LRV 1	1	<u> </u>		Schedule not updated
LRV 2	N/A		N/A	
LRV 3	\checkmark	/ /		Schedule not updated
LRV 4	1	1 1		Schedule not updated
LRV 5	1	1 1		Schedule not updated
LRV 6	V	1 .√		Schedule not updated
LRV 7	√	- / /		Schedule not updated
LRV 8	N/A	1	N/A	
LRV 9	V	· / /		Schedule not updated

					1. V	'eh	icles (cont'd)
LRV 10	1		1	√	l		Schedule not updated
LRV 11	N/M		20	*//			Schedule not updated
LRV 12	18/1/		11/1/	*//			Schedule not updated
LRV 13	*//		2/	w//			Schedule not updated
LRV 14	**/		2/	**///			Schedule not updated
LRV 15	3//		3//	*//	,		Schedule not updated
LRV 16	2//		W/	W//			Schedule not updated
LRV 17	2//		·//	**//			Schedule not updated
LRV 18	"Nagharan".		Ng plant	**************************************	3		Schedule not updated
LRV 19	**/		3/1	4//			Schedule not updated
LRV 20	*//		4//	*//			Schedule not updated
LRV 21	3/		3///	*//	}		Schedule not updated
LRV 22	2//		.//	*//			Schedule not updated
LRV 23	2//		*//	*//			Schedule not updated
LRV 24	N. aleksan	1888	20/1	*****	1964		Schedule not updated
W		tta	W				**************************************

_RV 25	1	V	V	Schedule not updated
_RV 26	W	1	1	Schedule not updated
_RV 27	w//	1	1	Schedule not updated
_RV 28	***	1	1	Schedule not updated
_RV 29	w/	1	1	Schedule not updated
_RV 30	*//	1	1	Schedule not updated
_RV 31	\	W	V	Schedule not updated
_RV 32	w/	w//	V	Schedule not updated
_RV 33	w//	1/	1	Schedule not updated
_RV 34	W	w//	1	Schedule not updated
_RV 35 (02)	*//	1	1	Schedule not updated
_RV 36 (08)	W	√	V	Schedule not updated

2. Station Occupancy Permits OTC Update 15-Mar-19 FIXED FACILITIES INSPECTIONS STATUS Plumbing Mechanical Building Occupancy Blair Cyrville St. Laurent (***) Tremblay (***) (***) Lees uOttawa 11 Mar Rideau Parliament 18 Mar Lyon 21 Feb Pimisi 27 Feb Bayview Tunney's Pasture Legend: Progress Inspection Inspection Failed Occupancy Permit issued with Conditions (***) Pending stairs to be repaired Plumbing Lyon, Parliament, Rideau discussions with BCS about the documents escalators are pending for the plywood variance -TSSA committee TBD 8

2. (Occ	cupancy permits
Stations – East		Status
Blair		BCS occupancy permit remains outstanding. The latest BCS Inspection Reports identify outstanding items: Building (6). Outstanding items include Architect CCL not satisfactory as it includes multiple exclusions; Stair rise/run tolerances (nosing to nosing) deficiencies to be fixed. Additional verification / process to be satisfied (OFS, TSSA, etc.) prior to being able to open for public (revenue service).
Blair Bus Loop	Shipping.	Complete
Cyrville		BCS occupancy permit remains outstanding. The latest BCS Inspection Reports identify outstanding items: Building (3). Outstanding items include Stair rise/run tolerances (nosing to nosing) deficiencies to be fixed; Additional verification / process to be satisfied (OFS, TSSA, etc.) prior to being able to open for public (revenue service).
St. Laurent		BCS occupancy permit remains outstanding. The latest BCS Inspection Reports identify 45 outstanding items: Mechanical (29) and Building (16). Outstanding Items include: Architect CCL; Alternative Solution sign-off letter for Station escalator Truss Enclosure and Elevator Shaft Enclosure Requirements; Stair rise/run tolerances (nosing to nosing) deficiencies; Additional verification / process to be satisfied (OFS, TSSA, etc.) prior to being able to open for public (revenue service).
Tremblay		BCS occupancy permit remains outstanding. The latest BCS Inspection Reports identify outstanding items: Building (6). Outstanding Items include: Stair rise/run tolerances (nosing to nosing) deficiencies to be fixed; Additional verification / process to be satisfied (OFS, TSSA, etc.) prior to being able to open for public (revenue service).
Hurdman		BCS occupancy permit remains outstanding. The latest BCS Inspection Reports identify outstanding items: Building (1) Stair rise/run tolerances (nosing to nosing) deficiencies.
Hurdman Bus Loop		Complete
Lees		BCS occupancy permit remains outstanding. The latest BCS Inspection Reports identify outstanding items: Building (1)Stair rise/run tolerances (nosing to nosing) deficiencies.
uOttawa		BCS occupancy permit remains outstanding. The latest BCS Inspection Reports identify outstanding items: Building (1)Stair rise/run tolerances (nosing to nosing) deficiencies.
		-

2. (Occupancy Permits (cont'd)
Stations – Tunnel and West	Status
Rideau	BCS occupancy permit remains outstanding. The latest BCS Inspection Reports identify 57 outstanding items: Plumbing (15), Mechanical (21) and Building (21). Method of preventing sand/grit from entering the plumbing system remains to be resolved. Water leakage issue is ongoing. Stairs rise/run out of tolerance. Smoke control needs to be demonstrated.
Parliament	BCS occupancy permit remains outstanding. The latest BCS Inspection Reports identify 36 outstanding items: Plumbing (8), Mechanical (19) and Building (9). Water leakage remains to be resolved. Stairs rise and run out of tolerance. Method of preventing sand/grit from entering the plumbing system remains to be resolved.
Lyon	BCS occupancy remains outstanding. The latest BCS Inspection Reports identify 24 outstanding items: Plumbing (6), Mechanical (10) and Building (8). Functionality of heat tracing protection for all plumbing system yet to be confirmed. Various damper operational issues to be resolved. Various E-tel operational issues to be resolved and re-demonstrated.
Pimisi	Occupancy permit issued by BCS Feb 27/19 with 5 conditions. The latest BCS Inspection Reports identify outstanding items: Mechanical (5) and Building (6). Items include Alternative Solution sign-off letter for Station escalator Truss Enclosure; Escalators to remain in a stopped position pending alternative solution and TSSA approval; consultants to confirm design and completion of signage identifying the barrier free means of egress.
Bayview	Occupancy permit issued by BCS on March 12/19, with 5 conditions. The latest BCS Inspection Reports identify outstanding items: Mechanical (5) and Building (6). Items include Alternative Solution sign-off letter for Station escalator Truss Enclosure; Escalators to remain in a stopped position pending alternative solution and TSSA approval; Consultants to confirm design and completion of signage identifying the barrier free means of egress.
Tunney's Pasture Bus loop/buildings	BCS occupancy permit remains outstanding. The latest BCS Inspection Reports identify outstanding items: Mechanical (7) and Building (4), Items include Structural SVR for superstructure; Alternative Solution sign-off letter for Station escalator Truss Enclosure; Stair rise/run tolerances (nosing to nosing) deficiencies; Consultants to confirm design and completion of signage identifying the barrier free means of egress
Ottawa	10

3. Tunnel Ventilation System (TVS) St-Laurent TVS SIT test completed – results and deficiencies not provided to City. Lyon TVS SIT test completed – results and deficiencies not provided to City. Parliament TVS SIT test completed – results and deficiencies not provided to City. Rideau TVS SIT test completed – results and deficiencies not provided to City. Validation by SEMP outstanding on CCLs, ICL and SITs

4. TOCC & SCADA (cont'd)

Station	Comms System	Status	Comments
Blair	FDAS, CCTV, PA, PIDS, GIDS, ACS, Telephone, HSDR		Telephony: intercoms not routed to TOCC, Transit Law & Information
Cyrville	FDAS, CCTV, PA, PIDS, GIDS, ACS, Telephone, HSDR		PIS-CBTC: integration ongoing (audio & visual messages not synced
St Laurent	FDAS, CCTV, PA, PIDS, GIDS, ACS, Telephone, HSDR		with vehicles)
Tremblay	FDAS, CCTV, PA, PIDS, GIDS, ACS, Telephone, HSDR		GIDS: configuration ongoing, vehicles causing intrusion alarms, fix then re-SAT
Hurdman	FDAS, CCTV, PA, PIDS, GIDS, ACS, Telephone, HSDR		IAC: integration ongoing, varying completion 35-60% for card readers 8 door strikes
Lees	FDAS, CCTV, PA, PIDS, GIDS, ACS, Telephone, HSDR		SAT/SIT reports: outstanding SCADA (SAT & SITs), GIDS, IAC, HSDR. etc.
uOttawa	FDAS, CCTV, PA, PIDS, GIDS, ACS, Telephone, HSDR		
Rideau	FDAS, CCTV, PA, PIDS, GIDS, ACS, Telephone, HSDR		iTels not functional, IAC cable pulls & card readers 60% installed (not functional), overall integration 10%, SCADA PICOs, IAC SATs, system wide tests outstanding
Parliament	FDAS, CCTV, PA, PIDS, GIDS, ACS, Telephone, HSDR		iTels not functional, 2 concourse PIDS not installed, overall integration 30%, SATs and SITs outstanding. note: concourse CCTV recently installed (was pending artwork)
Lyon	FDAS, CCTV, PA, PIDS, GIDS, ACS, Telephone, HSDR		Same items as East (Tel, PIS-CBTC, GIDS & reports), IAC integration 20%
Pimisi	FDAS, CCTV, PA, PIDS, GIDS, ACS, Telephone, HSDR		Same items as East (Tel, PIS-CBTC, GIDS & reports), IAC integration 15%
Bayview	FDAS, CCTV, PA, PIDS, GIDS, ACS, Telephone, HSDR		Same items as East (Tel, PIS-CBTC, GIDS & reports), IAC integration 5%
Tunney's	FDAS, CCTV, PA, PIDS, GIDS, ACS, Telephone, HSDR		Same items as East (Tel, PIS-CBTC, GIDS & reports), IAC integration 80%
	Telephone, HSDR		80%

4. TOCC & SCADA (con't)

Network Connectivity: RTG & City firewalls installed. Ongoing configuration troubleshooting between RTG and City ITS occurring. Final network document to be submitted once final working configuration is in place. Permanent City network equipment installed at 895 Belfast, awaiting cutover from temporary switch. Wi-Fi being investigated for 805 Belfast. Data Feeds (Next Train Arrival, Next Train Arrival: No New Updates. OLRTC has advised that previously Elevators/Escalator Availability, received ICD from Willowglen will be replaced with a new one issued by OLRTC. Washroom Status, Coiling Grill) To expedite process, OC Transpo has asked OLRTC to review comments provided in October 2018 on Willowglen document. OLRTC was tracking to have live data available as of the 2^{nd} or 3^{rd} week of March. Once data format is confirmed, internal development can resume. APC: No New Updates. OC Transpo continues to monitor availability of data. Once data format is confirmed, OC Transpo will re-engage with Infodev. 14

Power Sepaly and Destination	
TPSS #1 incl. OCS (Tunney's Pasture)	TPSS 1 SAT, energized. OCS in service.
TPSS #2 incl. OCS (Pimisi)	TPSS 2 SAT, energized. OCS in service.
TPSS #3 incl. OCS (Parl to Rideau)	TPSS 3 SAT, energized, OCS in service.
TPSS #4 incl. OCS (East of UOttawa)	TPSS 4 SAT, energized. OCS in service.
TPSS #5 incl. OCS (Hurdman)	TPSS 5 energized. OCS in service.
TPSS #6 incl. OCS (East of Tremblay)	TPSS 6 in service. OCS in service.
TPSS #7 incl. OCS (Cyrville)	TPSS 7 in service. OCS SAT with minor deficiency.
TPSS #8 incl. OCS (Blair)	TPSS 8 in service. OCS in service.
TPSS #9 incl. OCS (MSF)	In service, SATs complete for TPSS and OCS
TPSS #10 incl. OCS (MSF)	In service, SATs complete for TPSS and OCS
System-Wide Integration	No schedule update for final SITs
Ottowa	

6. Safety Assurance

TIR not scheduled. ESAC review indicates outstanding work:-

- Use Case /Interface Register Completeness
 O&SHA(Human Factors & ORD)

- Test Coverage
 Configuration Management / Change Control

Safety Assurance, Railway Level: Deliverables 40 of 51 42 of 51 42 of 51 82%	Demonstrating Compliance for Substantial Completion		Volume (at Eebruary 22)	
System Level:		 		
System Assurance Hazards 343 of 346 343 of 346 99%		 		



Compliance with Safety Requirements

16

Trais Control Zone 1 Train Control (Tunney's – W Portal) Thales software update to 5.03 pending Zone 2 Train Control (W Portal – uOttawa) Thales software update to 5.03 pending Zone 3 Train Control (uOttawa – E of STL) Thales software update to 5.03 pending Zone 4 Train Control (E of STL – Blair) Thales software update to 5.03 pending Thales software update to 5.03 pending Thales working on design but implementation plan unknown

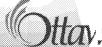
8. Practice Plan Section in equation for the Zone 1 Tunney's to West Portal Pending integration of Comm systems Zone 2 West Portal to West of Hurdman Rideau & Parliament integration in early stages Zone 3 Hurdman to E. of St. Laurent Pending integration of Comm systems Zone 4 East of St-Laurent to Blair Pending integration of Comm systems Zone 5 MSF Pending integration of Comm systems Pre-trial running: no scheduled dates Trial running: no scheduled dates System-Wide Integration Plan to run 20 single cars still outstanding Plan to run multiple coupled cars still outstanding Agreement on final details of evaluation process and criteria has been achieved: RFI documenting criteria has been accepted. Trial Running Test Procedure – not yet delivered Trial Running 18

19

9. Maintenance Readiness & Winter Operations Maintenance Readiness IMIRS DATA feeds remain outstanding for TPMS, OCT has been informed by RTM that it is Contract Management anticipate that approx. 20% of assets will not be included until after RSA. Alstom GSI to IMIRS interface function complete and will be switched to a live environment at RSA. Maintenance and Rehabilitation Plan Revised plan submitted; OLRT-C O&M Manuals missing Maintenance Equipment Delivered Equipment needs to be modified and upgraded based on winter snow clearing experience Asset registry approx. 85% complete. Data transfers for IMIRS under testing; linked to LRV Maintenance IT Systems (MMS, IMIRS) operating hours Spare Parts on Hand Spare parts list indicates required inventory not in stock Maintenance Personnel Training still underway Winter Operations Winter Maintenance Plan Still in draft – work in progress between OTC/OC and RTM

10. Integrated Project Close-Out Execution

_					
Demonstrating Compliance for Substantial Completion	Volume (at Sebruary 8)	Volume (at February 22)	Volume (at March (5)	Complete	
Marie Desire en les	442	527	671	n/a	
DRES	250 of 276	272 of 278	275 of 278	99%	
COSC	255 of 271	264 of 276	277 of 279	99%	
IGE.	0 of 32	9 of 10	9 of 10	90%	
CHRONI Rest Line Ac Bolto	TBD	74 of 98	74 of 98	76%	
	0 of 13	0 of 13	2 of 13	15%	
Control of Control	45	49	42	n/a	
Commissioning Menusis	3 of 24	12 of 24	14 of 24	58%	
SIT Tests SITS checked by VIV	184 of 220 96 of 220	191 of 220 100 of 220	200 of 237 111 of 237	84% 47%	
Safety Assurance, Railway Level: Deliverables SONOs	40 of 51 10 of 21	42 of 51 10 of 21	42 of 51 10 of 21	82% 48%	
Systems Assurance, System Level: Deliverables SONOs	45 of 50 0 of 4	45 of 49 0 of 3	45 of 49 0 of 3	92% 0%	
System Assurance Hazards	343 of 346	343 of 346	343 of 346	99%	



Data provided by OLRT-C as at March 15, 2019
 Data has not been substantiated by OTC as all documents not yet provided

Note 1: Presentation changed to report remaining NCRs requiring resolution prior to Substantial Completion

10. Integrated Project Close-Out Schedule | Close-Out Schedule Basis Chart accepted in principle by RTG, Independent Certifier and City. All task breakdown sheets with scheduled end dates completed. | A process for demonstrating compliance for substantial completion of fixed facilities and vehicles has been developed. Bi-weekly meetings have been initiated whereby each PA schedule is being reviewed for compliance. With construction slippage and with SEMP now actively engaged, current document reviews are not quite mature enough to demonstrate compliance and therefore the schedule has slipped. | Documentation of Revenue Service Availability Requirements | Documentation of task breadown sheets completed, plan accepted and detailed schedule of activities that will support RSA requirements is being finalized in various working groups.