



OLRT Constructors/Constructeurs Confederation Line Trailer Complex 535 Terminal Avenue Ottawa, ON K1G 0Z2

Rideau Transit Maintenance 805 Belfast Road, Ottawa, ON K1G 0Z4

9 February 2021

OLRT Ref :	OLR-RTM-18-0-LET-0193
RTM Ref: Letter Number	RTM-OLR-18-0-LET-0110
RTM Ref : Warranty ID	RTM-WAR-0246
Contract Reference :	Unexecuted warranty protocol and A&R IA

Attention:

Mario Guerra

General Manager

Subject:

Warranty Notice Form - Various Defects

Dear Mr. Guerra,

OLRT has received the above referenced communication regarding the various alleged defects from The Maintainer. Please refer to Appendix A below for the documentation received.

After careful revision of the attachments to the letter in question, OLRT is rejecting this warranty claim due to the following reason:

1) Lack of clarity of the CC Defect (refer to A&R IA 3.4.(d))

The Maintainer needs to describe in detail the nature of the CC defect. The Warranty Notice Form does not include any relevant information regarding the alleged CC defect's root cause and what action is being requested from OLRT by The Maintainer for each of the work orders.

In Addition, upon raising a notice of a potential CC Defect, The Maintainer has to provide any further relevant information from an investigation of the matter in the appropriate reviewable format within 10 business days as per A & R IA 3.4.(d).

Sending mass batches of alleged CC Defects in the format submitted as Attachment 1 is not productive for either OLRT or The Maintainer. Each issue should be clearly defined and acknowledged as a CC Defect by The Maintainer prior to sending it to OLRT.

Due to the reason above OLRT considers this to be rejected until further information with a clearly defined CC Defect can be provided.





Sincerely,

Hans Tenold

Construction Director

OLRT Constructors

Cc:

Gonzalo Gomeza

Steve Nadon

James Messel

Bill McCormick

Nicolas Truchon

Glen Hanlan

APPENDIX A - LIST OF ATTACHMENTS

B.	TN/	LV	VΔ	R.	024	16
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RTM-OLR-18-0-LET-0110 - Construction Defects during CC Warranty Period

ALSMNT-RTM-0580 - Construction Contractor defects

Attachment 1 - Construction Contractor defects letter ALSMNT-RTM-0580



Document: RTM-MC-FRM-505

Revision: 1

Date: 2019-10-22 Page: 1 of 1

Maintenance Department Form

WARRANTY NOTICE FORM

Item No.:
RTM-WAR-0246 / ALSMNT-RTM-0580 / RTM-OLR-18-0-LET-0110
Originator:
Steve Nadon
Title of Warranty:
Construction Contractor Defect
System and Location:
Various Defects
Date and Time of Notification:
February 1, 2021
Description:
Please reference attached letter ALSMNT-RTM-0580 and its Attachment 1 for all details.
Temporary Remedial Works Performed:
Direct Losses:
Root Cause
Actions:
Subcontractor or Supplier Warranty Applicable (Yes/No):
Yes

Template: RTM-QMS-TEM-018 Print Date: 2021-02-09 Paper copies are uncontrolled.

This copy is valid only at time of printing.



Rideau Transit Maintenance 805 Belfast Road Ottawa, ON K1G 0Z4

February 2, 2021

VIA EMAIL TO

Mr. Gonzalo Gomeza OLRT Constructors 535 Terminal Ave Ottawa, ON K1G 0Z2

RTM Letter No:	RTM-OLR-18-0-LET-0110
Replying To:	
Reference:	Amended and Restated Interface Agreement
	ALSMNT-RTM-0141
	ALSMNT-RTM-0185
	ALSMNT-RTM-0353
	ALSMNT-RTM-0360
	ALSMNT-RTM-0393
	ALSMNT-RTM-0527
	ALSMNT-RTM-0543
	ALSMNT-RTM-0559
	ALSMNT-RTM-0560
	ALSMNT-RTM-0565
	ALSMNT-RTM-0580
	ALSMNT-RTM-0593
	ALSMNT-RTM-0595
	ALSMNT-RTM-0598
	ALSMNT-RTM-0602
	ALSMNT-RTM-0612
	ALSMNT-RTM-0613
	ALSMNT-RTM-0623
	ALSMNT-RTM-0625
	ALSMNT-RTM-0632
	ALSMNT-RTM-0637
Action Required:	Address CC Defect



Subject: Warranty Notice for Construction Defects during the CC Warranty Period

Dear Mr. Gomeza

Please find attached letters Rideau Transit Maintenance (RTM) has received from its Maintenance Subcontractor. In the attached letter, Alstom Transport Canada Inc. (Alstom) is alleging that CC Defects are affecting its Subcontract Work. Under Section 3.4 (d), 3.4 (e), and 3.4(h) of the Amended and Restated Interface Agreement, the Construction Contractor (CC) is obligated to correct a CC Defect. If the CC does not rectify the CC Defect, RTM and/or Alstom may incur costs for which CC is obligated to reimburse to RTM.

RTM continues its review of the attached. However, as RTM is obligated to bring issues raised as potential CC Defects to OLRT-C's attention at the earliest possible opportunity, we are issuing this letter and attachments for OLRT-C's awareness and any and all appropriate due diligence. RTM has also attached a Warranty Notice as per the unexecuted Warranty Protocol between OLRT-C and RTM.

RTM has not, at this time, assessed the potential impact of the costs with respect to any RTM actions to remedy/mitigate the consequences of the CC Defects. Furthermore, potential additional impacts, such as Project Co Deductions or subsequent repair, which are not yet known or agreed may be presented to OLRT-C at a later date by separate letter or Invoice.

RTM reserves all of its rights under the Interface Agreement and at law.

Sincerely,

Rideau Transit Maintenance General Partnership

Mario Guerra, General Manager

Attachment(s): Please see Warranties listed below

Cc.: Hans Tenold, Bill McCormick, Tyler Miehe, William Coleman, Ricardo Umana,

Steve Isbell, Selu Sithole, Anis Abayou & Document Control – OLRT-C

Nicolas Truchon - RTG

James Messel, Steve Nadon - RTM



RTM-WAR-0236 - Construction Contractor Defects ALSMNT-RTM-0141 - Notice of CC Defect

RTM-WAR-0237 - Construction Contractor Defects
ALSMNT-RTM-0185 - Notice of CC Defect - CBTC Work zones

RTM-WAR-0238 - Construction Contractor Defects ALSMNT-RTM-0353 - CC Defect Claim

RTM-WAR-0239 - Construction Contractor Defects
ALSMNT-RTM-0360 - Notice of CC Defects - Track Distortions

RTM-WAR-0240 - Construction Contractor Defects ALSMNT-RTM-0393 - CC Equipment

RTM-WAR-0241 - Construction Contractor Defects
ALSMNT-RTM-0527 - Construction Contractor defects

RTM-WAR-0242 - Construction Contractor Defects
ALSMNT-RTM-0543 - Construction Contractor defects

RTM-WAR-0243 - Construction Contractor Defects
ALSMNT-RTM-0559 - Construction Contractor Defect - NAC Alarms

RTM-WAR-0244 - Construction Contractor Defects
ALSMNT-RTM-0560 - Construction Contractor defects

RTM-WAR-0245 - Construction Contractor Defects
ALSMNT-RTM-0565 - Construction Contractor defects

RTM-WAR-0246 - Construction Contractor Defects

ALSMNT-RTM-0580 - CC Defect - Switch heaters (Suitability of Spectrum Switch Heaters)

RTM-WAR-0247 - Construction Contractor Defects
ALSMNT-RTM-0593 - Construction Contractor defects

RTM-WAR-0248 - Construction Contractor Defects

ALSMNT-RTM-0598 - Construction Contractor Defect — NAC Alarms - Alstom's Response

RTM-WAR-0249 - Construction Contractor Defects
ALSMNT-RTM-0602 - Construction Contractor defects

RTM-WAR-0250 - Construction Contractor Defects

ALSMNT-RTM-0612 - Notice of CC Defect - Light Malfunctioning at East Portal North Side Track 1

RTM-WAR-0251 - Construction Contractor Defects ALSMNT-RTM-0613 - Construction Contractor defects



RTM-WAR-0252 - Construction Contractor Defects
ALSMNT-RTM-0623 - Construction Contractor defects

RTM-WAR-0253 - Construction Contractor Defects
ALSMNT-RTM-0625 - Notice of CC Defect - Light Malfunctioning at East Portal North Side Track 1

RTM-WAR-0254 - Construction Contractor Defects
ALSMNT-RTM-0632 - CC Defect - LMB Fuse - Alstom's Response

RTM-WAR-0255 - Construction Contractor Defects
ALSMNT-RTM-0637 - Construction Contractor defects

RTM-WAR-0256 - Construction Contractor Defects 10-18-2019_ PIDS - PIDS located on all stations

RTM-WAR-0257 - Construction Contractor Defects 2019-10-13_Rail-001_Rail on Track 2 CH 105 + 864

RTM-WAR-0258 - Construction Contractor Defects 2019-10-18_CCTV-001_TOCC CCTV Computers

RTM-WAR-0259 - Construction Contractor Defects 2019-10-21_001-HFI (Hands Free Intercom) - HFI-03_Gate V1 MSF Warranty Protocol Flowchart

RTM-WAR-0260 - Construction Contractor Defects 2019-10-21 Elevator-001 - Elevator 2 St. Laurent St Elevator Room

RTM-WAR-0261 - Construction Contractor Defects
2019-10-22_IAC-001 - IAC Door Controller Parliament St Comms Room

RTM-WAR-0262 - Construction Contractor Defects 2019-10-26 Elevator-002 - Elevator 3 and St. Laurent Station

RTM-WAR-0263 - Construction Contractor Defects 2019-11-13_Rail-001_Rail on Track 2 CH 105 + 497



OTTAWA MAINTENANCE PROJECT Alstom Canada

1050 Beaver Hall, 18th Floor Montreal, QC – H2Z 0A5 (Canada) Phone: +1 (514) 764-1725 Fax: +1 (514) 879-1955 www.alstom.com

Mr. Mario Guerra Chief Executive Officer, Acting General Manager Rideau Transit Maintenance General Partnership 805 Belfast Road Ottawa, ON KIG 0Z4

Ottawa, December 18, 2020

Letter No.: ALSMNT-RTM-0580

In reply to: None
Action: RTM
Letter Ref.: None

Subcontract: Second Amended and Restated Maintenance Subcontract dated September 16, 2019

("Subcontract"); Article 7.3 of Attachment 50 – Interface Rights and Obligations

Subject: Construction Contractor Defects

Dear Mr. Guerra,

Pursuant to article 7.3 of Attachment 50 of the Subcontract, Alstom is writing to notify RTM of Construction Contractor (CC) Defects which it has become aware as of December 18, 2020. These CC Defects are set out in Attachment 1 of the present letter.

Alstom reminds RTM that the Construction Contractor is responsible for the remediation of any applicable CC Defects at its own cost and expense in accordance with the applicable Construction Contract. As such, any additional work performed by Alstom with respect to remediation of the CC Defects are compensable under the provisions of the Subcontract. Alstom is in the process of collecting information relating to additional work, wrongful assignment of deductions, failure points and lost kilometers and will notify RTM in due course.

Alstom cannot be held responsible for deficiencies in the infrastructure and integrated global system. As such, Alstom expressly reserves its rights and remedies under the Subcontract, in equity and at law, with regards to any unjustified deductions or failure points assigned, and to compensation for any additional work relating to any of the Defects listed in Attachment 1 of this letter.

Any work performed regarding a CC Defect shall be covered by an extension of warranty by the Construction Contractor in accordance with Attachment 50 of the Subcontract ("Stage 1 CC Warranty Period").

ALSTOM

Please be notified that Alstom presents this letter without waiving and with express reservation of Alstom's rights and remedies as may be available under the Maintenance Subcontract Agreement, any other contract, applicable law, rules or regulations whether at law or in equity. In no event shall this letter constitute nor be deemed to be a waiver by Alstom of any of its rights or remedies with regards to the above

Sincerely,

Richard France Project Manager

Attachment(s):

Attachment 1 - Construction Contractor defects letter ALSMNT-RTM-0580

cc: James Messel, RTM
Michail Matthiopoulos, Alstom
Karim Farran, Alstom

Construction Contractor defects letter ALSMNT-RTM-0580

Work Order	Alstom Reference	Site	Location	Job	Completion Comments	Date Raised
68202	500501833	LRV	LRV-1101	•	1.12.2020 02:15:48 George MITITELU (~420395)hecked both cabs. TOD volume working at normal levels.	12/10/20
68180	500501790	TP06	TP06-POW	TP06 DS Swtichgear Ground / 64-1 relay Fault State Fault. and TP06 DC Switchgear/rectifier Enclosure Overvoltage Horn Strobe alarm command DEC 11, 2020: 04:18: TP06 DC switchgear Ground / 64-1 Relay fault ongoing issue	TOD Volume working at normal revers.	12/10/20
68173	500501737	LRV	LRV-1115	IOS76 Line contactor replacement		12/10/20
68170	500501729	LRV	LRV-1115	IOS076	0.12.2020 23:31:25 Michael Andre ALMOCERA (~429292)ine contactor replaced on the PCE. IOS 076 was caused by a stuck line contactor. Once changed, we ran the self test and verifiedt was working accodingly. LRV is fit for service.	12/10/20
68169	500501728	LRV	LRV-1102	IOS074	1.12.2020 02:25:06 Munnier SIRAG (~420396)he pantograph winter strips were damaged, causing arcing and locking out all PCE's. We changed the panto winter strips, performed self test on all PCE's, bumped the trains, PCE logs are clean and nothing abnormal came up during out testing. Fit for service.	12/10/20
68168	500501727	LRV	LRV-1134	IOS073	0.12.2020 23:35:46 Michael Andre ALMOCERA (~429292)edundant work order. IOS073 was caused by the coupled unit which was LRV02 and the work order regarding this issue is:60689376	12/10/20
68167	500501725	LRV	LRV-1102	ERO reporting Immediate stop indicator on on the signal box also the EB light was flickering also she had audible alarms in the cab and the train speed was slowing down.	0.12.2020 23:36:19 George MITITELU (~420395)lease note that this order is linked to WO ****68169, caused by the Panto strips. closed.	12/10/20
68159	500501667	LRV	LRV-1119	Brake # 2 & 4 at fault in yellow	0.12.2020 23:12:49 Michael Andre ALMOCERA (~429292)e cycled the brakes to verify the minor fault disappeared, made sure the logs are clean once the reset was done and cycled the brkes an additional 10 times to make sure the issue didnt come back. Fit for service.	12/10/20
68155	500501670	LRV	LRV-1133	Brake # 2 & 4 at fault in yellow.	0.12.2020 23:24:51 George MITITELU (~420395)inor behavioral	12/10/20
68154	500501660	LRV	LRV-1132	Brake # 2 & 4 at faults in yellow.	fault. Not on DDU after train reset in SIW. 0.12.2020 23:24:04 George MITITELU (~420395)inor behavioral	12/10/20
68140	500500615	LRV	LRV-1101	ERO reporting no doors opened on either train at STL-E - he opened them in RM and was able to service the station	fault. Not on DDU after train reset in SIW. 1.12.2020 02:15:44 Munnier SIRAG (~420396)his issue was not reproducible in the shed. We cycled the doors and made sure they opened on command and closed properly. We didhis 10 times. Nothing abnormal occured and train status on the TOD match the signal on the DDU. Nothing found, fit for service.	12/10/20
68137	500501172	LRV	LRV-1127	ERO reporting brakes 2 and 4 in yellow fault on both	0.12.2020 23:15:57 George MITITELU (~420395)inor behavioral	12/10/20
68136	500501172	LRV	LRV-1127		fault. Not on DDU after train reset in SIW. 0.12.2020 23:15:10 George MITITELU (~420395)inor behavioral	12/10/20
68114	500500994	SIG	SIG-ZC03	trains 11 and 27 ZC 3 is in alarm on ATS (see ATS alarm at 05:14 Dec 10, 2020). ZC3 is still showing green on the ATS.	fault. Not on DDU after train reset in SIW.	12/10/20
68110	500500991	LRV	LRV-1120	Train experience immediate stop and red brake fault.	LRV24 suffered brake#2 and #4 minor fault. Tech cycled the brake and fault were cleared at 04:47 am	12/10/20
68107	500500959	SIG		WRU 60, 58, 54, 56 at tremblay are down		12/10/20
68088	500500816	SIG	SIG-ZC03	Zone controller 3 is in redundant state - LSRS 3 is down after power was shut down in Zone 3 which was unauthorized by MLC	0.12.2020 06:09:10 MOUTERFI LYES (~21002176)one controller 3 and workstation was rebooted and system back on line	12/10/20
68404	500502597	LRV	LRV-1124	Cab door mechanism is defective, not securing the door.	2.12.2020 01:58:38 Paviter SINGH (~431972)ab door lock spindle was defective. Mvt Evgeny and myself found a new spindle and replaced it. The cab door was tested and it isorking perfectly.	12/11/20
68354	500502591	TP06	TP06-POW	SCADA Priority 0 TP06 DC Switchgear/rectifier Enclosure Overvoltage detected horn strobe alarm command .Help desk notified. 12:24 alarm went normal		12/11/20

68304	500502250	SIG		Train 02/34 had a mechanical issue and was stopped by the ERO at the fouling point of SW328. Trains were set to line 2 with every third train diverting to DE-04 line assignment at TRE-E. The first train going eastbound on track 1 would not get an LMA past SW327. Train was reset and routing cancelled and drag and dropped to BLA-W but still the LMA would not go past SW327. Under the switch information display it showed CT under Reservation for SW328. When the delay was cleared MLC observed a train in ATO come up to SW328 and the system stopped it as a train was going west through SW328. The stopping point by CBTC and the fouling point for SW328 do not appear to be lined up as train 02/34 was in the switch zone according to ATS.	1.12.2020 21:16:49 James CAIRNS (~420284)mail was sent to Thales requesting assistance. Waiting for Thales response.	12/11/20
68293	500502069	TRK	TRK-GS01TK002	Switch heater #2 for switch #302 is inoperative as per SCADA	4.12.2020 07:16:15 Simon Kendall (~421350)here a issue with the SCADA control Relays , awaiting replacements , Refer to WO#60677427	12/11/20
68572	500503057	STNPAR	STNPAR-02006	SCADASRV2 Parliament Commline Communication Status Unknown - ALSTOM_CM	3.12.2020 07:39:59 Harmeet Singh . (~435796)Observed for SCADASRV 2 sockets at parliament station shows "fail" status We switched parliament commline from scadasrv1 to scadasrv2 and it restored the scadasrv2 socket status back to normal	12/12/20
68571	500503056	STNSTL	STNSTL-01103	SCADASRV2 St. Laurent Commline Communication Status Unknown - ALSTOM_CM	3.12.2020 07:57:52 Harmeet Singh . (~435796)Observed for SCADASRV 2 sockets at st laurent station shows "fail" status We switched st laurent commline from scadasrv1 to scadasrv2 and it restored the scadasrv2 socket status back to normal	12/12/20
68535	500502966	SIG		ATO overspeed on train 11/27 westbound approaching CYR No injuries reported - ALSTOM_CM	3.12.2020 09:10:29 Harmeet Singh . (~435796)nitial investigation done:Called YCC to get the details of an eventThey confirmed that an event happened on Dec12, 2020 at 19:42Email sent to Thales for further investigation	12/12/20
68533	500503005	STNTUN	STNTUN-CONC	IF COM TUN ITELO2 OFFLINE DURING NMS	2.12.2020 20:38:07 Abdulai Alhassan ALHASSAN (~431602)raveling to the Station to troubleshoot the issue2.12.2020 23:00:49 Abdulai Alhassan ALHASSAN (~431602)raveled to the Station to troubleshoot the issuehen ITEL- 02 was operated we found it not functioningent into the Comms RM and checked VSP-4850-02 switch port-39 patch panel port- 04ound TX/RX LEDs in normal operationeset the portested the ITEL again and found it's restored to normal operationo further issue required	12/12/20
68522	500502934	STNSTL		IF COM ICP CCTV COMPUTER OFFLINE	2.12.2020 15:30:35 Harmeet Singh . (~435796)Observed CCTV computer was not powered and did not turned ONTraced power supply source and found GFI was trippedReset GFI and Turned ON the computerThen launched Indigo Vision and populate St Laurent cameras	12/12/20
68521	500502933	STNPAR		IF COM PA NAC02 offline on NMS	2.12.2020 15:17:34 Eloy-andres FERNANDEZ (420962)isited parliament station and observed the same issue on-sitehecked the cables connected to one side of the power bar are not getting powerraced the source of power bar and found the power breaker 19/21/23 on electrical panel 2D is down/offurned that breaker on and it powered up the NACO2 and it came online.	12/12/20
68518	500502694	LRV	LRV-1124	ERO reporting train is docking approximately 5 metres off of the normal docking position at LEE-EB when in ATPM. CCTV footage has been bookmarked for reference	3.12.2020 16:11:24 Andres ANTIVERO-MILLOY (~433585)o attenuator was installed for TIU Antenna on MC2. Installed an 8dB attenuator to bring RFID tag read distance within specificatins. Will monitor for 24 hours as this antenna may need more attenuation if docking is still off mark.5.12.2020 01:13:52 Gurpal Singh SIDHU (~433574)e monitored the situation for more than 24 hours and the Issue didnt happened again.	12/12/20
68515	500502693	LRV	LRV-1127	ERO reporting yellow brakes faults on brakes 2 and 4 on both trains 11 and 27	3.12.2020 04:24:09 Erkan Uygun (~427373)hecked the EBCU logs and connections. It shows minor fault due to discrepancy between brake demand and brake effort in ATPM mode, ut it is not an actual fault. Calibrated and cycled and tested the brakes. LRV is fit for service.	12/12/20
68514	500502911	LRV	LRV-1111	ERO reporting yellow brakes faults on brakes 2 and 4 on both trains 11 and 27	3.12.2020 04:25:07 Erkan Uygun (~427373)hecked the EBCU logs and connections. It shows minor fault due to discrepancy between brake demand and brake effort in ATPM mode,ut it is not an actual fault. Calibrated and cycled and tested the brakes. LRV is fit for service.	12/12/20
68475	500502810	SIG		ZC 3 redundancy down	2.12.2020 07:41:55 Harmeet Singh . (~435796)estarted Zone controller 3A and confirmed on ATS it came back online	12/12/20
68436	500502725	TP07	ТР07-СОМ	TPSS 7 - TP07 NGD Negative Bus Overvoltage State tripped - AS per SCADA	3.12.2020 16:34:38 Jun FAN (~419911)PSS 7 - TP07 NGD Negative Bus Overvoltage statue. Went to TPSS 7 , the NGD had lots close and open records, the parameter first sage is +40 V, and the second stage is +50 V, which were too low than other TPSSs. reset the NGD parameters to the first stage is 70V, and the second stage is +90 V, which are the same as the others TPSSs. reset SCC as well. close this WO.	12/12/20
68733	500503429	LRV	LRV-1125	TRE-W hold is applied due to door open failure received on ATS. Doors did not open when the train stopped. ERO switched to RM to service the station and was able to continue. Train had docked at the station in ATPM. 30 second delay during the mode change	4.12.2020 03:10:51 George MITITELU (~420395)nown issue. Logs do not show a door failure. MPU, door trace, and EVR uploaded to SP for Engineering analysis.	12/13/20

68712	500503427	LRV	LRV-1112	Brake # 2 and 4 in minor yellow fault in both trains	3.12.2020 23:31:01 George MITITELU (~420395)inor behavioral fault. train power cycled in SIW.	12/13/20
68678	500503347	TP07	TP07-POW	TPSS07 NGD Negative Bus Overvoltage State Tripped, SCADA alarms, NGD is cycling between Tripped Status and Normal, 60 instances in last 24 hours.	3.12.2020 16:29:21 Jun FAN (~419911)PSS07 NGD Negative Bus Overvoltage Statue. this is a duplicated WO with WO # 500502725/60691971. close this WO	12/13/20
68668	500503296	TPO2	TP02-POW	TPSS02 NGD Negative Bus Overvoltage State Tripped, SCADA alarms, NGD is cycling between Tripped Status and Normal, 66 instances in last 24 hours.	3.12.2020 14:07:55 Luc POIRIER (~420275)eset SCC, NGD WAS OK	12/13/20
68667	500503316	TP01	TP01-POW	TPSS01 NGD Negative Bus Overvoltage State Tripped, SCADA alarms, NGD is cycling between Tripped Status and Normal, 32 instances in last 24 hours.	3.12.2020 16:44:22 Jun FAN (~419911)PSS01 NGD Negative Bus Overvoltage Statue. Went to TPSS1, the NGD is good. but there were a lots NGD closed records because Negaive Bus Overvoltage. As per manager Damien requirement, we set TPSS 1 NGD to the first stage +90V, and the second stage was alreay +90V. we reset SCC to make sure all setting is done. Close this WO.	12/13/20
68662	500503278	LRV	LRV-1123	LRV23 IOS016 Train parked at TUN, removed from service	3.12.2020 22:34:15 Belal SULEMAN (~420436)ssue was coming from the Mating sensor on LMC2 coupler, the sensor was always High, it should only be High when its coupled. I swped the sensor and the issue is resolvedRV is fit for service	12/13/20
68654	500502699	LRV	LRV-1108	Train 08 coupled with 19 EB'd in the East Connector when approaching the Zone 3/5 Border. Lost positioning but was able to regain when continuing to the Pseudo Exit	4.12.2020 02:09:07 George MITITELU (~420395)hecked the logs on the train.e found that the EB was caused due to a request from ATC because of a communication issue with ground systems. Wiring is ok. ATCtatus lights onboard are also ok. Train regained position immediately and maintained it for the remainder of the day. No otheraults.4.12.2020 02:09:34 George MITITELU (~420395)ogs will be available on SP.	12/13/20
68652	500503241	LRV	LRV-1123	LRV23. Brakes 2 & 4 are in yellow fault.	3.12.2020 22:36:12 Belal SULEMAN (~420436) rakes was in minor fault, issue is cleared by resetting the brakes via Isolation. The brake and accumulator pressure is good on bth HPU's.RV is fit for service	12/13/20
68651	500503204	STNRID	STNRID-02011	SCADA Alarm - Priority 0 - Rideau SVZ-3 Ventilation Zone Active Mode State: Alarm		12/13/20
68633	500502698	STNRID	STNRID-02011	SCADA Alarm - Priority 01 - RIDEAU Fan RIEF-2 in fault state: Yes		12/13/20
68632	500503203	STNLYO	STNLYO-03010	SCADA Alarm - Priority 01 - LYON Fan DWF-1 in Alarm State: Yes		12/13/20
68616	500503113	TRK	TRK-GS01TK001	SW301 switch heater cannot be controlled via SCADA. Worker in field requested heater be turned off as someone was working nearby. Command could not be executed. Advised to contact PIC. ALSTOM_CM		12/13/20
68600	500503061	STNSTL	STNSTL-01103	STL STN PA Rack NAC-1 fault STATE FAULT	3.12.2020 09:06:25 Eloy-andres FERNANDEZ (420962)hecked Scada and its displaying normal status for STL NAC-1Checked Alarm history and observed that the fault status is very intermittent.Logged into Open access and did not find any alarms and confirmed PA system is working properlyNAC alarms are being investigated under SO#60678114 / Notification 500495956	12/13/20
68922	500504577	TRK	TRK-GS05TK012	SCADA ALARM - Control ARM Fail. Currently the switch heater at SWT503 is off	5.12.2020 05:45:04 Marlon STEWART (420090)WH 503 all 4 fuses were good- motor would not start5.12.2020 12:02:02 Simon Kendall (~421350)otor needs to be replaced	12/14/20
68868	500504571	SIG	SIG-ZC04	Just west of SWT 328 ERO reported wheel slippage on the train. This is the same location train 01/29 experienced an EB due to overspeed in ATO.	4.12.2020 16:39:11 MOUTERFI LYES (~21002176)he issue is under investigation and will need to follow up with Thales on how to resolve this.LC were unable to use Type 2 breaking because is just LRV 10/39 that experienced the issue	12/14/20
68863	500504559	LRV	LRV-1101	2 EB's in last 10 min. Overspeed in ATO.	4.12.2020 17:50:42 Bryan Gray (~426196) have checked the speed sensors and confirmed they are all reporting accurate information. Reviewing the EVR files it shows the tain reaches its target speed of 80kph and all the speed sensors show the same info. You then see the train request negative torqu to slow down followed by a slide event happening and the HSCB opening. I've confirmed type 2 braking was not active at the timef the fault which could have caused the issue as the train was not able to slow down to its target speed fast enough causing anB for overspeed. Both events saw a similar sequence of events for the EB. We have also confirmed that the sanding is working andhat it is not being applied unnecessarily by driving the train in dry conditions in the shed.	12/14/20
68853	500504556	LRV	LRV-1134	Door # 09, 15 and 17 did not open at BLA. Doors open with a hesitation at CYR STN.	4.12.2020 23:16:54 Erfan Komeili (~426466)hecked the Doors function in manual mode and recycled the doors several times. checked the wiring and connectors, they are all fie.	12/14/20
68851	500504552	LRV	LRV-1104	Brake (Yellow Fault) 2 and 4	5.12.2020 02:48:19 Erfan Komeili (~426466)hecked the logs, They were both minor behaviour fault. recycled the brakes and checked the function, they are working fine now.	12/14/20
68850	500504490	LRV	LRV-1105	Obstructed Motion	5.12.2020 02:51:30 Erfan Komeili (~426466)VTs checked the pantograph for any sign of damage, everything is fine. We checked the function of PCEs with checking the dashboar, panto raise and panto down are OK. We will monitor the issue for 24 hours.	12/14/20

500504236	LRV	LRV-1101	VOBC active is on LRV01. LRV loose positioning and creates a momentarily NCO between TRE and HUR track 1. This has happened every time the LRV goes that way.	4.12.2020 21:10:24 Bryan Gray (~426196)rain is currently showing 8 cars and 2 VOBCs with steady positioning, issue will be under monitoring as it is not possible to receate the conditions for this test in the yard. It does not sound as though it is missing tags it sounds like an issue with a specfic area.4.12.2020 21:12:24 Bryan Gray (~426196)rain is currently showing 8 cars and 2 VOBCs with steady positioning, issue will be under monitoring for 24 hours as it is not posible to recreate the conditions for this test in the yard. It does not sound as though it is missing tags or something along thoe lines, it sounds like it was an issue with a specific area.4.12.2020 21:17:36 Bryan Gray (~426196)rain is currently showing 8 cars and 2 VOBCs with steady positioning, issue will be under monitoring for 24 hours as it is not posible to recreate the conditions for this test in the yard. It does not sound as though it is missing tags or anything along thos lines, it sounds like it was an issue with a specific area.	12/14/20
500503822	TP08	TP08-POW	Receiving multiple SCADA priority 2 alarms for TPSS 08 negative bus overvoltage. Received 8 alarms within 13 minutes. They do go back to normal state after a few seconds.		12/14/20
500503821	LRV	LRV-1134	Brake #2 in minor (yellow) fault. Brake now in major fault with a immediate stop indicator. ERO attempting to isolate. ERO has successfully isolated the brake.	5.12.2020 03:09:22 Erfan Komeili (~426466)his work order is related to the other open work order IOS024. The fault was yellow and minor first and it was changed to major ad IOS024. It is fixed by changing the speed sensor (TACH03) harness.	12/14/20
500504067	LRV	LRV-1132	Brakes 2 and 4 in minor (yellow) fault on both trains.	4.12.2020 23:27:26 Erfan Komeili (~426466)hecked the LOGs, Both of them went faulty because of Minor behaviour fault. Recycled the brakes 02 and 04 and checked the functio of both, They both are working fine. WABTEC calibrated the HPUs as well.	12/14/20
500503327	TP06	TP06-COM	TPSS 06 Switchgear Ground 64-1 Relay Fault STate - Fault Priority 1 /// PLEASE CROSS REF IMIRS 68765 AS FMT ACCEPTED THE WO THAT IS ASSIGNED FOR ALSTOM	4.12.2020 05:01:50 Alex Gerald TRAFFORD (~429923)as contacted by YCC regarding strobe and alarm was activated at TPSS6 as 64 Ground Relay was tripped. Attempted to Reset Relay whle DC Breakers were open, no result.ilenced alarm and strobe.as standing by when DC Breakers were closed by Mainline and Relay went to normal as DC was closed.hese things are coinciding which leads me to believe that they are connected somehow.e closed switch which was opened to silence alarm and strobe.	12/14/20
500503751	TP06	TP06-COM	TPSS 06 - Switchgear/Rectifier enclosure overvoltage detected, horn strobe alarm Priority 0	4.12.2020 05:09:21 Alex Gerald TRAFFORD (~429923)as contacted by YCC regarding strobe and alarm was activated at TPSS6 as 64 Ground Relay was tripped. Attempted to Reset Relay while DC Breakers were open, no result.ilenced alarm and strobe.as standing by when DC Breakers were closed by Mainline and Relay went to normal as DC was closed.hese things are coinciding which leads me to believe that they are connected somehow.e closed switch which was opened to silence alarm and strobe.	12/14/20
500505605	LRV	LRV-1109			12/15/20
500505604	LRV	LRV-1101	ERO reporting door # 5 on train 01 is in fault. MLC gave permission for the ERO to cycle the doors in RM mode with no luck. 2111- ERO on the platform was able to isolate the door and train departed.	6.12.2020 02:16:51 Erfan Komeili (~426466)hecked the logs, The fault was "Door closed switch right".hecked the wiring and related connections to MSW1 and MSW2 closing switches. They are both good wiring and also the function of sitches.ecycled the door05 several times, It works fine. The issue is going to be under monitoring for 24hours.	12/15/20
500505477	LRV	LRV-1139	Train 39 experienced a door fault on door #16 at PAR-E. ERO attempted to cycle the door in RM with no success. ERS G. Chahal was onboard, attempting to isolate the door. 17:47 Door #16 is now isolated. 180 second delay to service.	6.12.2020 04:41:15 Belal SULEMAN (~420436)abtec took a look at the issue on Door 16, They tested the doors multiple times and checked for the sensitive edge and wasn't abl to reproduce the fault. We will monitor this LRV on the ML but for now door is operational.it for service	12/15/20
500505475	TP06	TP06-POW	TPSS 6 horn and stobes activated 2 SCADA alarms. T06 DC Switchgear Ground 64/1 relay fault state fault. TP06 DC Switchgear/Rectifier Enclosure Overvoltage Detected Horn Strobe alarm Command state. 16:37 Alarm is now cycling on and off @02:26 DEC 16, 2020 TPSS 06 DC Switchgear Rectifier enclosure overvoltage detected horn strobe alarm priority 0 DEC 16, 2020 02:28: TPSS 06 DC Switchgear ground / 64-1 Relay Fault State Fault.	6.12.2020 04:24:57 Kristen Cadence LEADER (~436723)pened knife switches 17/18 to silence alarm again. investigate further to repeated cause	12/15/20
500505358	тосс	TOCC-01136	APC transfer in priority 1 alarm. repeater.	5.12.2020 14:53:49 MOUTERFI LYES (~21002176)erified Scada and noticed Alarm is behaving erratically larm is present during revenue hours while files are being transferred to FTP server. Captured alarm history was sent to Willowgln. (See ticket RTM-87).OTE: that issue is the same as the WO # 60465327 related to the Notification # 500329138.	12/15/20
	500503822 500503821 500504067 500503327 500505605 500505604	500503822 TP08 500503821 LRV 500504067 LRV 500503327 TP06 500505605 LRV 500505605 LRV 500505604 LRV 500505604 LRV	S00503822 TP08	S00504236 LRV LRV-1101 creates a momentarily NCD between TKE and HUN track 1. This has happened every time the LRV goes that way. Receiving multiple SCADA priority 2 alarms for TPSS 08 negative bis overvoltage. Receiving multiple SCADA priority 2 alarms for TPSS 08 negative bis overvoltage. Received 8 alarms within 13 minutes. They do go back to normal state after a few seconds. Brake now in major fault with a immediate stop indicator. ERO attempting to isolate. FRO has successfully isolated the brake. S00504067 LRV LRV-1132 Brakes 2 and 4 in minor (yellow) fault on both trains. TPSS 06 Switchgear Ground 64-1 Relay Fault STate—Fault Priority 1 // PLEASE CROSS REF IMRS 64765 AS FNT ACCEPTED THE WO THAT IS ASSIGNED FOR ALSTOM TPSS 06 Switchgear/Rectifier enclosure overvoltage detected, horn strobe alarm Priority 0 TPSS 06-Switchgear/Rectifier enclosure overvoltage detected, horn strobe alarm Priority 0 TPSS 06-Switchgear/Rectifier enclosure overvoltage detected in the platform was able to isolate the door and train departed. Train 39 experienced a door fault on door #16 at PARE. FRO attempted to cycle the doors in RM mode with no luck. 2111- FRO on the platform was able to isolate the door and train departed. TPSS 66-Form and stokes activated 2 SCADA alarms. To6 OC Switchgear Ground 64/1 relay fault state fault. TPO6 OC Switchgear Green for Size and Town and state. 16-37 Alarms is now cycling on and off (202 EDEC 10, 2020 TESS 06 CS witchgear ground / 64-1 Relay Fault State Fault.	SOUCHIES IN IN INVESTIGATION OF THE CONTROL (AV FOOD positioning and in a stronglish control to condition for the first the year of the control to condition for the first the year of the control to condition for the first the year of the control to condition from the condition of control to condition from the condition of condition from the condition of conditions from the conditions from the condition of conditions from the conditions from t

69043	500505569	STNLYO	STNLYO-03011	Lyon Stn, at concourse level door no. 03-011A and letter D on it, every time when door is opened from inside, alarm starts to sound. Reported by field staff. REPAIRS WERE MADE TO DOOR BY RTM FMS J PROULX AND DOOR IS NOW MECHANICALLY OPERATIONAL HOWEVER ALARM CONTINUES TO SOUND EVERYTIME STAFF EXITS FROM THE INSIDE. REDIRECTED TO ALSTOM SIGS&COMMS AS PER FMS D WYLIE.	6.12.2020 02:50:26 Mohamed SHANNEB (~432023)udible alarm is triggered when exiting door but when using IAC card reader to enter there is no alarm.eplaced door strike suspecting the RTE (request to exist) function was faulty. This did not solve the issue.larm still triggered when exiting door. Possible wiring issue between door strike and IAC panel.	12/15/20
69026	500505101	LRV	LRV-1104	ERO reported yellow brake faults on brakes 2 and 4 on both trains 4 and 24. Reported from PEXITE in the east connector. This train had yellow brake faults on brakes 2 and 4 on both trains yesterday as well.	6.12.2020 01:56:44 Belal SULEMAN (~420436)inor brake fault on the EBCU, Downloaded logs and will monitor this brakes.rakes reset by isolation.	12/15/20
69014	500504977	TP04	TP04-POW	TPSS 04 Aux XFMR Load Break Switch Remote Status Remote (priority 2 alarm on SCADA)		12/15/20
69011	500504962	LRV	LRV-1123	Red brake fault	5.12.2020 12:11:10 Xiaolei ZHANG (~433662)e checked the EBCU connection, found fix side board on EBCU connected CM.EBCU-T.J2 was loose, then we shake the connector while cnnected webpage, different major faults came up on EBCU webpage and recorded log was gone. According to Wabtec, it could happen wen board is loose. It not happen again after we secure this board, tested this EBCU functionalities, working fine, WO order close. Log uploaded to SharePoint.	12/15/20
68993	500504952	TP04	TP04-POW	TPSS04 Feeder Breakers won't close. Cath-1 is open.		12/15/20
69301	500506487	STNPAR		IF COM SCADA RACK NO GROUND CONNECTION	17.12.2020 05:11:29 Harmeet Singh. (~435796) • Bound during monthly checks that the ground continuity test were failing for Scada rack • Traced the ground wires and found that the rack was grounded but missing a wire from rack to ground bar. • Activity will be done tomorrow night with PT team	12/16/20
69276	500506385	LRV	LRV-1132	LRV32 All doors showing incorrect status on DDU. Some stops were showing all doors isolated. Other stops showing all doors closed. Alstom tech onboard train. This train was just launched for software update.	17.12.2020 03:13:21 Erfan Komeili (~426466)Checked the ethernet cables on LRV32, on TRS ETH02 one of the pins is shorted to ground. this short and the effected channel is not service effecting so it is left open and doors status are fine now. It is in the plan of warranty to be fixed.	12/16/20
69274	500506384	LRV	LRV-1122	LRV22 No HVAC functioning in passenger saloon or operators cab. Immediate technical assistance requested	17.12.2020 02:59:35 Erfan Komeili (~426466)Checked the logs, there is no issue on any HVAC unit or any events on them showing not operational HVAC. Checked MPU logs, found nothing. Checked the function of all HVACs, they are working as they are intended. Checked the setpoints, 19-22. The issue is goingto be monitored by warranty for 24 hours.17.12.2020 03:14:24 Belal SULEMAN (~420436)Verified Cabin is working and HVAC in LRV 22Cabin by checking Voltage 480ACHVAC by software showing heaters are workingAlso the LRV was warmFit for service	12/16/20
69239	500506341	SIG		Signals 3-E-10 3-W-11, 3-E12, 3-E-14 are failed on the ATS, yard aware and dispatching Alstom sig and comms at 15:29 no ETA 15:30 system hold in place 15:33 TOP issused to MLC to route trains in RTM 15:37 system hold released, sig and comms need to attend TRE stn to investigate the issue and are on route from the MSF	6.12.2020 22:06:31 CET Eric GREGOIRE (422679)ig are currently looking into the issue. They verified the issue in YCCnd are now in STNTRE CBTC room troubleshooting 2020-12-16, 16:07 hrs.6.12.2020 23:37:34 CET Eric GREGOIRE (422679)omment added on behalf of sig and com tech ALHASSAN Abdulai-alhassan.020-12-16,raveled to TRE STNbserved in the ATS that the switches serving the reported signal lightsere blockednside CTF Panel, located terminals JB 3 E 10; JB 3 W 11; JB 3 E 12; 3 E4 representing the said signal Lights power terminationshecked the voltages in all of themecoded 0V in each test (probably due to the issue or lights not beingreen)eset the ZC-03 both A & Boticed B was not working properlyeset only B for second time and it was okfter ZC-03 reset, MLC confirmed all signals are back to normalperationent an investigation email to Thales and other stakeholders.	12/16/20
69228	500506266	LRV	LRV-1105	ERO reported hearing the traction authorization bell while the train was in motion. IOS code popped up at RID-W. 1235 - Parked at TUN-E, out of service. TUN-E platform closed ERO waiting for spare train at handover 11	17.12.2020 03:11:42 Belal SULEMAN (~420436)Issue was coming from LRV 25, On the EVR logs and MPU logs its shows at the time of 12:24 pm the LRV loss HV on LRV 25. This willcause the emgency stop on the sig box. LRV 5 still had HV at this time, WT will monitor this for the Next 24 hours.LRV is fit for service	12/16/20
69210	500506083	LRV	LRV-1111	ATS alarm - An unexpected change in coupler status detected 08:11- Alstom Fleet Support Advised Alstom Tech George is already on board the Train	17.12.2020 03:19:20 Belal SULEMAN (~420436)Checked coupler circuit and couldn't recreate the fault, we will upload a trace and monitor the LRV for 24 hours.	12/16/20
69186	500505923	тосс	TOCC-01136	SCADA Priority 1 APC Transfer Inactive Alarm Yes - active since Dec 15 at 19:49	6.12.2020 14:42:46 James CAIRNS (~420284)erified Scada and noticed Alarm is behaving erratically. Alarm is present during revenue hours while files are being transferredo FTP server. Captured alarm history and sent it to Willowglen. See ticket RTM-870TE: that issue is the same as the WO # 60465327 related to the Notification # 500329138	12/16/20
69179	500505919	LRV	LRV-1112	Train EB'd in ATO due to overspeed, ERO confirmed that he lost VOBC. 0504 - Train got 2nd VOBC back at LEES stn , 90seconds delay	7.12.2020 01:22:41 Belal SULEMAN (~420436)T checked the logs and found ATC coms failure, this caused the EB on the LRV, I checked all physical connections on the both LRVnd preformed a self test all passed. Will monitor this issue for 24hrsogs on the Sharepoint	12/16/20