

### Since beginning of Trial Run (August 3<sup>rd</sup> to August 26<sup>th</sup>) – Main events

- Within 752 WO, we have experienced 145 main events which would have affected the service :
  - ✓ including 104 related to NVR, PEI and PIS.✓ remains 41 main events

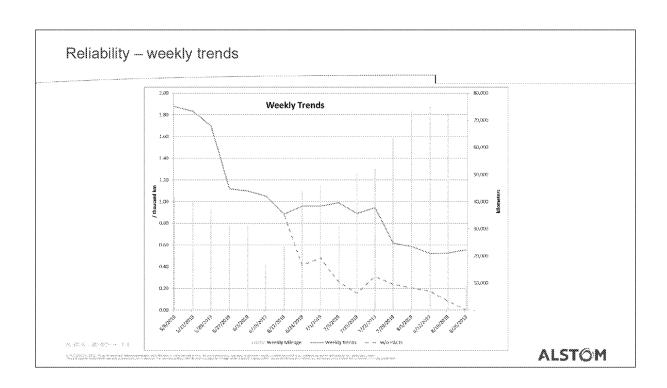
Today's presentation covers the last main events (6 events).

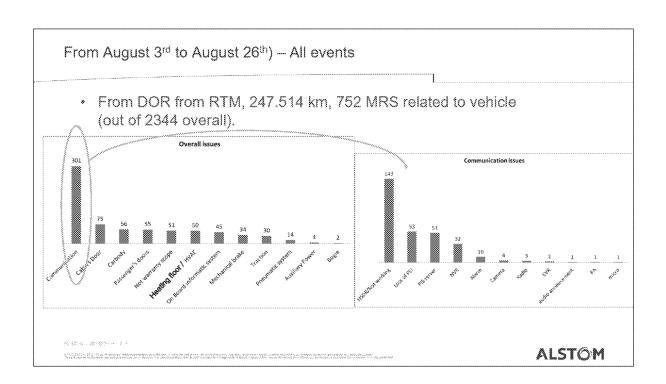
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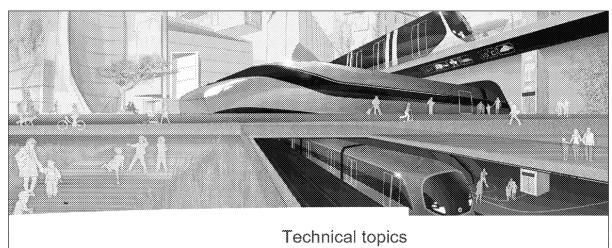
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	Date	Mileage (DOR)	Doors	CCTV IOS(99	PA IOS (60	PIS	Mechani csi	TCMS (DDU,	Low Voltage	Voltage &	Hat wheel/	Air Supply	Others	Tetal	
				>58}	>65)	(OS (66)	brake	\$409E3)		Traction	vibratio				
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	8/0/2019	11,073	0	1	4	0	0	1	Ü	4	0	0	1	- 33	
	8/7/2018	10,380	C	1	2	3	1	0	0	- 1	- 0	1	1 1	10	
	8/8/3018	10,351	0	2	2	0	1	0	0	0	0	0	1	- 6	
	8/9/2019	11,955	0	1			3		- 0	.0		- 0			
	8/10/2019	10,323	0	1	2	0	0	0	0	0	0	0	0		
	8/11/2019	7,733	0	0			1			0	0	С			
	8/13/2016	11,992	0	1	0	0	0	1	0	1.	0	0	0		
	8/13/2019	11,070	0	1 1	1	0	0	0	0	- 2	0	0		- 6	Second presentation = 41 events - PACIS = 14 events
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	8/18/2019	7.610	0	1	1	1	0	0	0	0	0	0	1	ž.	- FACIS = 14 eVents
	8/39/2019	11 133	Č	ė	1	ì	3	, i	, o	1	6	0	1 1	Ž.	
	8/20/2019	11,303	0	0	1	4	0	1	ū	0	0	0	3		
	8/21/2019	11.688	c			3	9	ŭ	O.	1	e	С	0		
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	8/23/2019	8.918	ě	1 1	1		6	ě	i o	i i	6		1 6		43 events
٠	8/24/2019	9,000	e	1	3	4	0	0	C	0	0	0	0		- PACIS = 6 events
	8/25/2019	9,000		à			9		i i	0	6	0	1 1		
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mations		247 514		28	39	40	6						, in		









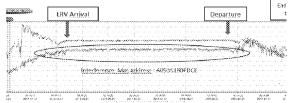
### **HSDR/PACIS** functions

### Rear vision:

- Implementation of WSS software on the fleet. Modem redundancy, configuration conflict corrected on the fleet but issue with some of the reconfiguration.
- "Observation period" see MRS table (following page)

Delay in obtention of Lyon & Parliament stations wayside :

- in case of forced short stop (5s between door open and door closure)
- Potential interferences with other systems.



In case of loss of mission (less than 10% of switching for ATO to ATP-M), driver's intervention to select the station.

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### HSDR/PACIS functions (MRS)

Date	Time	LRV		ios	No IOS subcategory	Description	Note
22/08/19	6 26 PM	L9909		Notice	Story steel in disclayed	ETC Storm opening bit in 170 HT CT movement design of the control	School Car Control (School)
20/98/19	9.16 AM	LFIV05	5,4,7	No 100	No Real/sew	Morgan on URV05 MO1 the COTY is leading only as doors are closing (funnel station).	Modern confille was not correct, bus been updated
22/06/19	17722.460	111405	*47	86.000	No Restricts	Modern participation of the Color of the Section of	Made to the following of the control
22/08/19	11:47 AM	LAVOS	5.4.7	No 106	No Rearrew	on LPVOS NGT the GCTV not loading at station	Modern have now teed
21/08/19	0 (1994	1,77.0	148	5,0100	Moving student displayed	(RWID MC2 any crowing TCB back CTCTV comments on their exist board into operand by Enrich Standard	Physics to be an exhauted
22/08/19	10.02 AM	L9909	8,4,7	No 10%	No Rearriew	reporting in training MC1 cable not loading one paniers stations intermittently should read not loading CCTV.	to be investigated
0.0000	1.20.491	1,97/10	388	5,0106	No Scoren	MCCCCC No. A companies present and the state of a contrag	Power lates to be reached
	9.53 A84	1.8912	5.48	Bo 108	No Bearview	CCPs indexembling	to be investigated
21708/11	33.66.879.8	1,0033	3.8	5,6300	Mesong alway at diag layers	UNITED TO SERVICE AND A SERVIC	frants serv, to be as earliered.
19/08/19	0.08 AM	LIPV18	5.4.8	No IOS	No Rearview	OCTV IS NOT CONNECTING TO PLATFORM CAMERAS	Modern conflict was not correct, has been updated.
20/08/19	0.21.394	L37/18	048	No 100	No Sources	Stoy saves	Modern contributions no contribution because
21/08/19	7.02 ARI	LSV25	5.4.7	Notos	No Regresse	$ERO\ B$ Cresigan reporting train 28 MO2 CUTV is completely greyed out and will not load.	Modern confille was not correct, bas been updated
20/08/19	0.00.624	1,1925	***	8000	No Represe	Grey specia	Modern confidences no construction to the state of
18/08/19	9.04 A84	1,53927	5.4 5	No IOS	No Protiview	CCT9 9601 not connecting to platform cameras	Modern confills was not correct, has been updated
22/06/19	3 03 F94	LROSS	848	30,000	No received to left to refer the	reporting CCTV outmain as NCO left advisors provided a convenings	Control was a server of the se
22/06/19	7.41.884	£50934	8.4.6	86400	No resortes on left or right aide	rapening CCTV left side of MC2 on trate 33 is not working	to be investigated

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### HSDR/PACIS functions

### Stations announcement (audio and display):

- Audio announcement OK.
- Frozen displays in the afternoon (PIS memory), still under correction (release August 27th.
- Final release today and documentation for PACIS/HSDR package, 7 to 10 days after.

### Next steps:

- Normal operation during the day with tunnel Wi-Fi and cell turned-off on August 28th.
   Any remaining loss of rear vision in the tunnel?
- Dynamic demonstration organized this evening for diverted routes with rev. 5.4.9
- Revenue Service release (6.0.0) received today. Will be implemented after tonight testing.
- The documentation (test report and non-regression on LRV) related to Revenue Service configuration is forecasted 7 to 10 days after the release.

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LRV	r2797/RVM98/TPC 2806 (5.4.9)	r2797/RVM98/TPC21 2804 DB 3.31 (5.4.8	r2797/98/2801(5.4.7) DB 3.31	r2797/98 (5.4.6) DB 3.31
LRV01			1996/801913000	55 96 7 349 3 days
LRV02				(36.7.19.363)
LRV03	26/08	23/08/2019	15/03/2015 19/30	13/08/2019 176/00
LRV04				
LRV05			19/08/2019 17/08	15,000,019100.0
LRV06	26/08	23/08/2019		1,08,01018.00
LRV07				CONTROL CONTROL CONTROL
LRV08	26/08		12/08/2022 1/8/80	100000000000000000000000000000000000000
LRV09 LRV10				12 C C C C C C C C C C C C C C C C C C C
LRV11			+	La terra de la compansión
LRV12			<del> </del>	170000000000000000000000000000000000000
LRV13			†	10.05.0049.080
LRV14				1990/01/1900
LRV1.5				16/30/03/91/06/33
LRV16				1,/06/2015 146:00
LRV17			10009701011000	1990/01/18/04
LRV18			19/08/2019 10:20	16/08/2019 12:00
LRV19				16/08/2019 12880
LRV20				15/06/70891888
LRV21				CONTROL DE CONTROL CONTROL
LRV22				15/08/2015 17:30:15:00(-9/4)
LRV23		23/08/2019		Control of the Contro
LRV24				15/06/2019 16660
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LRV26				
LRV27				15/00/2019 1/682
i.RV28				16/30/2019 (2001)
LRV29			2020/2001/6029	1, 10, 010 100 00
LRV30				10.067519.068
LRV31			20/08/2019 12h30 X	1,08/01019/97
LRV32	26/08			For Mark the South artis
20-80 F-0 LRV33				
LRV34		23/08/2019 :	19/08/2019 135-30	- ALSTÓ

#### **HSDR/PACIS** functions Loss of automatic display or ATG/ATP-M switching wrong station displayed No impact Manually select station on WSS Issue present No more recording in the Loss of audio announcement Loss of display Issue fixed PS server crash (0555/65 NVR Manual reset of the PIS server No impact Manual reset of the PIS server Manual reset of the PIS server Workaround possible rev id TBD Target few occurrences Grey screen on 1 WSS could remain With bug No impact No impact No impact Modem conf file Manually select station on WSS August 23rd Loss of automatic display Modern wrong configuration No impact No impact Manually select station on W5S Stuck on destination message Viemory allocation in No impact No impact No impact PIS server Manual reset of the PIS server **ALSTOM** ERCONICE DISC Any travel determination of their constraints on the resources, some code, a decreased to a code constraint of any travels of some code of their code of the

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### Other topics

### MPU software:

The engineering version (1.2.5.2) has been implemented on a case by case (LRV1/13, 9/24 and 5/20) not to affect the trial-run.

Plan to implement it on the fleet over the next days (it requires reset of LRV and loss of the position).

<u>Important note</u>: Still some CB manually open: this use has to stop (loss of train weight). Message passed to the trouble shooters and should be spread to all stakeholders.

### Traction faults:

As described last week, IOS76 got various root causes with line contactors, thermal protection, cabling/connection and CPU in Agate.

From the 12 events since beginning of the trial run:

- 3 are linked to line contactor
- 3 to "CPU watchdog"
- 4 estimated from thermal protection
- the others are due to cabling

Thermal protection ones don't require driver's intervention, nor a fix/repair as it is a time protection (IOS self resetting after around 20mn).

Traction experts on site.

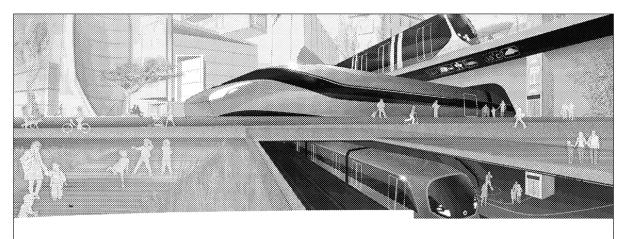
#### Passenger's doors:

5 doors isolated since August, 24th (software regressed to 1.2) 2 tested without any fault, 3 under investigation

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### Main events analysis



# From last week presentation

Open	Asset ID	Work Order	Description	Sub-system Impacted	Operational context (from YCC)	Repair
2019-08-03 22:03:00	LRV07	9733	ERO T.Burke reports IOS 052 (Loss of two or more doors on the same side in same unit) in the MC2 cab of LRV07. No doors isolated. on LRV 07/27	TEMS	ERO reports IOS IOS at Loss of two or more doors on the serie side in seme unit) in the MCZ rath of IRVO7. No doors (selected.	ICS 52 without doors in foult, take ICS, under investigation. Event difficult to capture as it remains only tew random ICS 52.
2019-08-04 13:21:00	LRV17	9771	ERO D. Morgan from LRV 17 reporting intermittent IOS code 052, and it's showing no door at fault on his DDU.	TEMS	ERO from LBV 17 reporting intermittent IQS code 052, and it's showing ne door at fault on his DDU.	IOS 52 without doors in fault, fake IOS, under investigation. Event difficult to capture as it remains only few random IOS 52.
2019-08-04 15:52:00	LRV28	9780	ERO M. Gratton reporting noise coming from the wheels (high pitch noise).	Others	ERD reporting that is the MC car of IRVISE has a sound of after a flat spot on the wheel or a loans wheel bearing. Not a safety visit at 15/32 - ERD reporting that the sound and vibration is very bad, especially on IR turns. IRO believes it is now a selfety concern.  15/35 - Help Cask notified that IRVISE/IRVISE on Ren IDV will be be throught into MSE IRVISE/IRVISE ON TO will be brought out as a replacement with ERD.  15/36 - Pan IDVISE/IRVISE will be brought out as a replacement with ERD.  15/36 - Pan IDVISE/IRVISE will be throught out as a replacement with ERD.  15/36 - Pan IDVISE/IRVISE will be another plantorm to replace IRVISE/IRVISE	Wheels inspected to fault found. At the issue service to hope or only on particular MI location (B-turn) the noise neight come from wheel/track interface at this perticular turn. To be monitored. 2019-08-20: No new occurrence since 08-04.
2019-08-05 07:53:00	LRV25	9830	ERO reporting compressor faults on both train 25 and 34	Air supply	ERC reporting compressor fault without an IOS code at FERTE.  Abson states its because its on an angle. Once it learners, the fault will disappear.  DEED first, train docked at ERA, still registering the Compressor fault. MLC weens to issued it back but Alatom stating that it is an end of day fault and constayout. VCC does not have a spare evaluable.  DYA Birs, Microm standed train and confirmed train can stey out. OCS 4ERO reporting the compressor fault is now on both trains.  DYSS AT A States the bring the train in VCC unsure if they have a replacement train.  BEDT train removed from matching.	IRVs were in the connector runnel for too long, IRV removed by error.  Note: 1 compressor on 1 train = end of day =C5012 For now ICS012 is not triggered on DEU (natiotionence) will be fixed in next DEU release ETA beg of Sept.

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# From last week presentation

Open	Asset ID	Work Order	Description	Sub-system Impacted	Operational context (from YCC)	Repair
2019-08-05 11-23:00	IRV02-10	9836	IRVO2-10 reporting speed of 10 KPH and immediate stop after departing TUN. IOS codes 07, 09 and 25 registering	imparee Voltage	IRVD2-ID reporting speed of 10 IRP1 and immediate stop after departing TUN- LOS codes 07, 03 and 25 registering 1134 for, telp Deak contexted 1135 for, 187 Deak contexted 1135 for, 187 diversion implemented seth 9 trains. Shortle between TUN-LYO, 1136 for, 187 diversion implemented seth 9 trains. Shortle between TUN-LYO, 1136 for, 50 and RIDS sincurationents made at Turniey's Station. Baydew Sin- nand Planial Sin Turnie. 1136 fills (187 and Supervisor has been notified. 1137 fills, 1881 Supervisor has been notified. 1137 fills, 1862 at ICVW on to resovering codes which led to a delay in the diversion. 1137 fills, 1862 pole advises Absome an route. enhanced email sant. 1136 fills, 100 seved to MILC for TUN-BLA, track 2 1146 fills, 1860 updates, that he has broked 2 in fault, a track broke fault and ell 4 brokes at Enach. 1152 fills, 1860 updates, that he has broked 2 in fault, a track broke fault and ell 4 brokes at Enach. 1152 fills, 1860 updates, that he has broked 2 in fault, a track broke fault and ell 4 brokes at Enach. 1152 fills, 2000 updates from K. Constant headway implemented permitted by Supt. NIMI. 1200 fills, timetable removed. Constant headway implemented permitted by Supt. NIMI. 127 fills, 2000 updates from K. reporting Sistem still pulling laptop logs. Approx 5- 10 mins langer. 1226 files, suprate from K. advises that Alstom has completed their update and permitted to go to TUN is RM mode. 123 files, Aktom advised LIV van go back in the loop.	Configuration conflict suspected between IRVs modification on 24/96V segregation in terminal block.

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# From last week presentation

Open	Asset ID	Work Order	Description	Sub-system impacted	Operational context (from YCC)	Repair
2019-08-06 36:35:00	LRV-1111-19	9878	Train 11/19 is at Tunney's East. Immediate stop, High Speed Circuit Breaker, Operator tried to reset the EB and was unable to do so. 1 V08C Fail. Alstom Tech Chanpreet has been notified and is troubleshooting @ 0650	TEMS	6.38 AM Yard contacted. Alstorn Tech trouble shooting with ero on Confed 2 7.26 AM ERO confirmed that he still has 4 cars and 1 VOBC	breakers done by the driver as by Champreer's instruction, train brought back at reduction.  Aug. 6th (evening) new MPU Software (1.2.5.2) uploaded
2019-08-06 07:59:00	LRV-1128-32	9879	IOS 040 on LRV 32	Medium Voltage	105 040 os of the hard severed to on train 32, Train is being sent back to MSF as per VMOS. Also mitech Changreet will board the train at HUR. 8.16 - ERO D. Diffest antonic reporting that Also m Tech has cleared the IOS code and the train can remain.	@MSF: Circuit Breaker on MC2 replaced (Normally Closed contact inside the C3 broken).
2019-08-06 08:46:00	LRV-1101-A	боооэвво	ERO M Diaz on train 01/02 EBY destructed motion on track 1 BLA - HSCB open - reset was successful - train attempted movement and HSBC reopened and the train EBY. ADDED E. Vigiliar - ALSTOM LEY MAINTENANCE SUP was advised at 0847 and he dispatched a warranty tech.	Other	ERO M Olaz on train 0.7/02 ERM obstructed motion on track 18.A. HSC8 open - reset was successful, train attempted movement and HSDC reopened and the train ERM. Religiosis notified, Alscom tech Changreet advised ERO not to try and move in case of a third ER. 9:38 - Train is back moving as per Alston. ERO stating the train moves 5 meters stops and then moves 5 meters again in ATO. Train doing the same thing in RM. 10:36 - Train 0.7/02 now moving to the MSE with Alstom tech Changreet on board.	Bad connection on a terminal block, suspected
019-08-06 0:24:00	LRV-1124	ზიიი9883	Train 24/33 EB due to obstructed motion at track 2 in Blair station. Also reported immediate stop on signal box, train is starting and stopping	Traction	Train ES'd due to obstructed motion track 2 B.A.E. EBO had to reser HSCB, which was successful. Train would only move a few feet and then stop and has immediate stop and several brake faults.  13.35 - Champreet wants the train removed from the mainline.  11.07 - replacement LRV28 LRV32 is ready at handover 11 - BRO being sent.  11.17 (RV24-RV33 exting MI.	

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# From last week presentation

Asset ID Work	k Order	Description	Sub-system impacted	Operational context (from YCC)	Repair
0000s		ERO D. DIFIETRANTONIO reporting 105 75 While docking at UCT-E on book trains. Operating at max speed of 70 KPH.	Traction	ERO D. DIPETANTONIO reporting IOS 76 on LRV26 while doding at UOT 2. Operating a timax speed of 79 RPH. Unable to confirm if motor bogle is fault in trailing car. Not registering on LRV26. They help Desk dod in the LBO in the Hop Desk hotflied. Help Desk does not have a replacement ready. H415 hrs, Alton Advise train is not covelling long enough and morar bogle is overhearing. Will stay in service at reduced speed. Alton H416 in the LBC and the LBC and they are service at reduced speed. H419 hrs, ERO reporting no Fault registering on LBV13 either. H426 hrs, ERO operating IOS code is actually 75 on LBV26 and that IOS is on LBV13 as well. H426 hrs, ERO reporting has the LBC is allowing train to go up to 75 SPH. H426 hrs, ERO desk advised LRV13/76 will be removed. Will have a replacement (BV14/79) ready in LS20 mins. 1433 hrs, ERO desk advised LRV13/76 will be removed. Will have a replacement (BV14/79) ready in LS20 mins. 1433 hrs, ERO desk advised the they are having troubles. LACT hrs, LRV13/76 emergency braked due to overspeed while in ATPM. 1500 hrs, H419 Desk advises that there is no longer an ERA on the replacement train. Troy Charter notified. H530 hrs, H419 Desk advises that there is no longer an ERA on the replacement train. Troy Charter notified.	Thermal piotaccifor raised an OS76 to stop traction effor

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# From last week presentation

Open	Asset ID	Work Order	Description	Sub-system impacted	Operational context (from YCC)	Repair
2019-08-06 21:35:00	LRV1110-12	9918	EAO S Harrison reports (OS code 074 on LRV10	Traction	EIO S. Harrison reporting of IOS code 074 on both trains. 2138 Help desk advised and RS K. Sidbu advised as well. 2139 ESO advised to switch ends and the train will be routed to the MSF. 2139 ESO advised to switch ends and the train will be routed to the MSF. 2135 Fains ESA Tremblay due to Obstructed motion. 2139 ESO reporting no propulsion after RM routing discrance was issued. 2135 Diversion DW OS implemented. 2135 PIOS and PA anouscement mode at tremblay. 2135 Tremporting discrance mode at tremblay. 2137 Tremporting discrance mode at tremblay. 2137 Hory notified displayment. 2221 - Alstom tech moleculation. 2230 - No extra ESO was available for replacement train. 2231 - Alstom techs fived the issue and confirmed that they reset the PCE's and will investigate further from train logs. Mt decides to send the train back to MSF. 2236 - Hemowell from M. 2300 - Full line 1 service resumed.	

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# Events during Trial Run Open Asset ID Work Order 2019-06-07 LRV-1101 9951 END F Nicob reporting OS 008 in train 01 All supply END F Nicob reporting OS 008 in train 01 All supply END F Nicob reporting OS 008 in train 01 All supply END F Nicob reporting OS 008 in train 01 All supply END F Nicob reporting OS 008 in train 01 All supply END F Nicob reporting OS 008 in train 01 All supply END F Nicob reporting OS 008 in train 01 All supply END F Nicob reporting OS 008 in train 01 All supply END F Nicob reporting OS 008 in train 01 All supply End F Nicob reporting OS 008 in train 01 All supply END F Nicob reporting OS 008 in train 01 All supply End F Nicob reporting OS 008 in train 01 All supply End F Nicob reporting OS 008 in train 01 All supply End F Nicob reporting OS 008 in train 01 All supply End F Nicob reporting OS 008 in train 01 All supply End F Nicob reporting OS 008 in train 01 All supply End F Nicob reporting OS 008 in train 01 All supply End F Nicob R Nicob reporting OS 008 in train 01 End F Nicob R Nico

**ALSTOM** 

# Events during Trial Run Open Asset ID Work Order 2019-06-07 INVA-17 9977 At IDSD lax, Train 04/17 lost 1 VOIC at III at 18 increased from TCC) Face 3 M/17 lost 1 VOIC at III at 18 increased from TCC) 129-06-07 INVA-19 9976 MC reporting TRN 02-24 having IOS codes 077, 027, 09 and 099. Cannot reset the broke and its currently immobile. Reported at 150s. and the Company Technology of the Company Invalidation Invalidation of the Company Invalidation Inv

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# From last week presentation

Open	Asset ID	Work Order	Description	Sub-system impacted	Operational context (from YCC)	Repair
2019-08-08 14:30:00	LRV-1109	9975	ERO A. SHAYMARD reporting that I EVIDS/09 is registering 1057% while docked at TUN. Will service BLA and then reduce through the east connector.	Treation	ERCA. Meaveur reporting of IOS code OTS at tunners Straton. HD Notified and they have appare train at the PRNOTI. Train will removed once the train arrives at Blair.  16:24 R.S.K. Sidhu notified to have an ERO at the MMF for the Spare train at the MMF.  16:27 Sugs. Belaire informs SCADA controller the checklist on LRV13/25 shows no functioning TOO and DOU on train 25 and the train is rejected. Help desk was advised and are preparing train 05/10.  16:07-Train 15/26 was "feed and will be launched to the Mt Shortly.	Line contactors replaced on both trains LRVG3-09.
2019-08-08 08:48:00	LRV-1112	10005	ERO reporting immediate stop and EB	Other	ID-42  RICAM Sharms reported as immediate stop on his DDU - train stopped just out side PUR Tack 2 - then the Ioan disappeared and movement resumed. Happened agin is TIME Tack 2 - then their RICM between which 317 and 320 data to obstructed motion.  SC-34 RICA agin - immobilized between switch 317-322  RICAC-STAP I is studied beind UNIT-STAP (track protection in place).  DISCS INSO STAP 4 reveal out of the way and justing service.  DISCS INSO STAP 10 Abstract his being to tack the train CO-93 TOP in effect for Abstract heir beings to tack the train CO-93 TOP in effect for Abstract heir beings to tack the train and strain movement is habited.  DISCS INSO STAP 10 For remove the Train in out - out 10:09 INSULATIVE has been considered.  DISCS TOP 10 TO	Toweld - Connection issue on a current return (found leave

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### From last week presentation **Events during Trial Run** Sub-system imparted Werthanizat Rail log in 103 Brake Asset ID Work Order Operational context (from YCC) ERO S Kemp on LRV 03/09 reporting Brake 2019-08-09 LRV-1109 10101 Changed both main pressure hoses (leaking) LME1 fault on LRV 09 on brake set #1 unable to reset or isolate. 23:06:00 Rail Log Id Abstom report Was called about the issue around 11 ochok, we tried to resolve it over the glbone housever could not. The different life in of mention at feet that the train was unable to move at all as one waited to confirm that an Aktioni tech was actually needed on the maintainer. Once we had a confirmation, moved to less frastion-found that the 1901 had no pressure at this point and was unable to release the size. Around mixingly, obstrain as TDP through the 1901 had no pressure at this point and was unable to release the size. Around mixingly, obstrain as TDP through the 1901 to access the tracks and release this brakes are sized. They note that their town less this however the train was fall seeing a major fault with brakes as being applied out to the lack of pressure. Decision to organize a reserve around farm. Few more attempts with second technicians on site to release the brakes. Around 2.30, we was able to get the brakes to reclaim the train back with 18903. 103.docx AC 870 AT - 880 870 - - - 17 JA **ALSTOM** ERCONICE DISC Any travel determination of their constraints on the resources, some code, a decreased to a code constraint of any travels of some code of their code of the

### From last week presentation **Events during Trial Run** Open Asset ID Work Order Description 2019-08-11 IRV-1109-A 50010285 immediate Stop Light Illuminated, 1029-00 Propulsion limited to 7kph (Coupled with IRV12) 1984 24 Court bases and set of the REAL STATE of the STAT the replacement train. 1032 - OFF the MAINLINE. Alstom tech Max is working to reset the brake fault in the West Connector (under MLTDF). 1046 - LRO reported that Trade can not be moved anymore. ERO asked permission to do the hard Reset (in the Wast Connector with Alstom Tech). 1058 - Vehicle inspection sheet automated to ML and ERED on brand on RV 25/34. 1011 ERO reported Hard Reset was unauccessful. 1021 - Yard Control hardfield Mt that they are sending second Aktom tech (Munici) to help our with the Brake fault. 1036 - Train 25/34 replacement from launched from East Connector to 5: Laurent Stricen Track 2 on RUN # 104. - 1128 hrs, Alstein MUNIKI requested access to MIC TOF to assist in \*\*\*Semblashcontrol RUDGH 2. 11.23 hrs, Alston MAMRI requested across to MECTOF to essist in troubleshooting UNOVICE 1158 hrs, ERO achieses NV is at handover 12. 11.58 hrs, ERO achieses NV is at handover 12. 12.58 or TONN Vis bot 1 VOBC 742 AAA Alstom Tech trouble shooting on Confed Une 2. Spare train availing within few minutes vis MPU resets climar breaker). As soon as MPU cames hack TOO showed 2VOBC and 8 cers, technical ore 27.51 Train is operational regain status. According to Alstom Fesh Cheapters: 1 Troy requesting to bring the UNOV/24 and Assom tech cold controllers that UNOV/24 is good for continuing the loop and bring it sex is time of reduction. Continuing the loop and bring it sex is time of reduction. 1 the year and religious to the Vest Control to provide a replacement train for UNO 2004. 10.24 Assom tech cold controllers that UNOV/24 is good for continuing the loop and bring it sex is time of reduction. 1 the year and religious action. 1 Sex is 1 time of reduction. 1 Control to provide a replacement train for UNO 2004. 2019-08-12 LRV-1109-24 No Worker for ERO at TUN-W lost 1 VOBC 07:38:00 US14 - LRV09/24 routed from Tunney's Stn Track 1 to ac back to the MSF West. Connector US21 - IRV 25/34 replacement train for IRV 09/24 is in the East Connector waiting to join the loop on the ML. 0833 - IRV 09/24 off the ML. **ALSTOM**

# From last week presentation

Open	Asset ID	Work Order	Description	Sub-system Impacted	Operational context (from YCC)	Repair
2019-08-12 19:27:00	LRV03	10523	ERO K. DHAWIWAL reporting IOS75 in LRV03 and an Immediate Stop Symbol at TUN-W. Alstom Tech Max on scene	Trection	ERO reporting on both trains IOS code 075. Allocan tech was substeed will be boarding the train at Tunneys to investigate.	Thermal protection raised on at least 2 traction units, ICS75 to stop traction affort above 70kph.
2019-08-13 06:30:00	LRV32	10600	Cab door cracked, Left CCTV screen in MC1 non functional and IOS 40, loss of one battery.	Voltage	IRO on IRV28 MCT the cab door cracked, on IRV 32 MCT cab door is cracked on IRV32 MCT the CCTV not working on IRV 346, on IRV33 IDS Code 340 0629 Yard contacted and trade returning to MSF end of line. And they have a sparre LRV28-LRV32	@N45F : Circuit Breeker on N4C2 replaced (Normally Closed contact inside the CB broken).
2019-08-13 10:40:00	LRV33	10643	LRV 33 keeps EBing due to 'Uncommanded motion' and 'Mode disallowed' and could only be moved in cutout.	Others/MWB	ERO reporting then the train EPG track 1 each of Bayelese. ATS shows due to obstructed motion. Train ERG has more times and ERC states that he is showing allignment failure and uncommended motion."  5.58 - Help diesk advised.  9.41 - Alstern is on the way to the train.  9.41 - Alstern called to advise they are a few minutes away.  9.56 - Alstern exiled to advise they are a few minutes away.  10.02 - Alstern exiled to advise they are a few minutes away.  10.03 - Alstern exiled minutes the train.  10.03 - Alstern exilent principles move to Tunney's in ATO with Alstern techs on board. Train EMG again.  10.19 - Train attempting to move in RM, unable too Alstern requesting the train be affined in Custout to Tunney's.  10.32 - Train artified again.  10.33 - Train partied at Tunney's in cultivat mode.  10.34 - Train parted at Tunney and further notice, keeps EB when trying to move in ATO / ATMM / RM. Decidian mode in conjunction with Supt. to leave train there for time being and resume full service.  12.01 ERO advised that they (Alstern) reset the train and it appears to be fine but will remove at 2 am trainight.	Complete investigation on witting and network done, several accurrences of non-quality found, under monitoring.

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# From last week presentation

Open	Asset ID	Work Order	Description	Sub-system Impacted	Operational context (from YCC)	Repair
2019-08-13 13:34:00	LRV15	10654	IRNIS/30 reporting IOS74 at HUR, track 1. Help Desk notified. Will be removed from Mainline	Traction	ERO reporting ICS 074 (Fraction major field feed 2) in UNVIC. This is a withdrawal code and will be sent to the MSY.  1333 - Felg Desk notified and UNVICATION of replace this vain.  1337 - FIR due to obstructed motion trying to leave HUR W.  1337 - FIRO updated and amountements made.  1338 - 105 074 (Fraction major feed tevel 2) in URV 3 also.  1338 - System Rold. Risk and SUPP 1348.  1340 - Detection implemented. "UOT TUR and HUR BLA.  1341 - FIRO updated and enuncomments made.  1344 - PIRO updated and enuncomments made.  1344 - PIRO updated and enuncomments made.  1345 - Institute of the system	No lisuses were found, logs were risken from TCUs and sent to traction engineers for further investigation.
2019-08-14 06:40:00	LRV05-20	No Worker found	NA .	TEMS	ERO at BLA-W reporting lost 1 VGRC. TCMS Yard contacted at 10-81 and COMPS after advised RS at footation and Alsoom tresh advised. 65.2 AM Alsoom tech leaving TUM on a risk to attend to USV at Blair 65.4 AM Called Yard and not trial replacement at this since 97.08 ERO called informing he has 8 cars and 2 VGRC. Clear for operation and he ER upon departure. 97.08 Informing that a full train reset needs to the down. 97.35 Informing that a full train reset peeds to the down. 97.35 Full train reset dome. 97.35 Call train reset dome. 97.35 Call train reset dome.	First Issue VGRC last for unknown means. Af report "AT tech was on the ratio is see had the TCMS error IDVS, Thisy need to reset the MRU shru the clinicit, breaker last per AT tech it didn't came online. So he reducted the MRU. It went to Cyroldes S' from Blab for spaning position as per the EF diving the train it didn't gain goalston. NOT AT seld train gain position at cyrolle but still maintaine sent the train back to yet We upboaled the New MPU release on this MU 1.2.5.2.

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# From last week presentation

Open	Asset ID	Work Order	Description	Sub-system Impacted	Operational context (from YEC)	Repair
2019-08-15 06:16:00	LRV15-30	10873	ERO K. Scantlebury reporting emergency brake and an immediate stop at St. Lourent track 2 and 105 074, unable to move in ATPM and RM.	Traction	ERC EB at ST Laurent Track 2 obstructed motion and immediate stop. IOS Code 074 on IRVS2, val contacted 6.05 AM reset Propulsion 6.11 AM Train EB agin 6.12 AM Verbal charance to move to Cyville 06.26 PT R Ran boarding Train at Bleir to get to train at St Laurent 06.41 PR Ran arriving at SI. 6.43 AM PT Fan boarding Train at St Laurent 06.54 Train schilling MI.	3 ToU/CPI replaced, non-cause under investigation by traction engineers. 2019-08-20 : no occurrence alone 08-15.
2019-08-15 06:51:00	LRV09	10876	TCMS on LRV 09	TCMS	Train EB TEMS 06.47 Yard comacted and ERS also informed. 7.04 AM. Train removed from MI.	MPU crashed on LVR 9 logs are downloaded and sent to engineering for futher investigation
2019-08-16 15:03:00	LRV02-07	11032	ERO reporting STOP all Train Command- with Brake fault on LRV 02.	Mechanical Brake	Rail log id 60	Propulsion Issues on IRVIVI country fault on IRVIVI, logs are taken for investigation. But connection found on IRVIVI setting issue on a terminod block.

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### From last week presentation **Events during Trial Run** Usecription 5.Nib-system impacted 50/12, ERO is reporting an immediate stop icon in the MC1 cab of IRV01. TOO shows only 4 cars and 1 VOBC and DOU loses not show the trailing IRV12, LRV then suffered multiple Ebs Asset ID Work Order Operational contact (from YCC) ERO is reporting an immediate attop icon in the MC1 calc of BRVC1. TOD shows of ankly 4 can and 1 VOBC and DEU does not show the trailing BRVC2 and CATS shows 8 cars, 2 VOBC. Alterngs to move result in characteristic facilities footh with EB activation Supervisor notified, platform dosed. 19.30 ERM nutified, Alations will attend 19.30 ERM nutified. Alations will attend 20.27 Alations such servorus. 20.27 Alations such respects \$\frac{1}{2}\$ Shutdown and result of BRV 21.55 - Removed from ministine. It also replaced by UR034 UR034 URV3 28.50 - PROFE and PK warrouncements are done for Station Clause at Tunney's Stations. 28.50 - PROFE and PK warrouncements are done for Station Clause at Tunney's Stations. 28.51 - LIKY CLYD2 roused back to MSV six when Clamentor. 28.52 - Repovement ERV 29/13 is sun-cheef on the Mainline. 28.53 - Repovement ERV 29/13 is sun-cheef on the Mainline. 28.53 - PRO Mainline and ERO will be in MSV as on Earro. Sept on dury is aware. Reset done on the train, TCMS logs were taken and sent to engineering for further investigation. 2019-08-16 LRV01-12 11046 19:43:00 VOBC not available for LRV12 coupled with LRV01 2019-08-17 LRV01-12 11152 8:11:00 TOMS TCMS crashed on LRV1 logs were taken for TCMS and sent to engineering for further investigation EBCI reporting a compressor fault on IBV94, no ICS code present. Alatom Tech at BLA to attend needs the train stationary for IC-15 minutes. 10.03 Yord control and Supp. advised pages ratio regulated to bounch. 10.03 BWC34HV24 bit handever towards mainline. 10.07 BWC34HV24 bit mandever no IRV034HV24 10.02 BWC34HV24 arrived at BLA are. 10.02 BWC34HV24 10.02 BWC34HV22 Launched to start service at TRE 5th west run 104 on exhabits. ERO reported compressor fault on LRV34 Air supply LRVs were in the connector tonnel for too long. Note: 1 compressor on 1 train = and of day = IOS012 For now IOS012 is not triggered on DOU will be fixed in next DOU release ETA bag of Sept. 2019-08-17 LRV03-34 11155 10:01:00 10.32 compressor fault cleared train needs to regain position. 10.34 Clearence issued. 10:40 position regained, clearance canceled 10:46 ERVI3-ERV34 reduced of the mainline AC\$YCK1 285-855- - 1/20 ALSTOM 2.900000-2000 Apply the expect the expectation of the desired the expectation of the e

# From last week presentation

Open	Asset ID	Work Order	Description	Sub-system Impacted	Operational context (from YCC)	Repair
2019-08-18 17:48:00	LRV18-25	11276	ERO reports that the train suffered ATS COMMIS LOST 10 times between 16 45 and 17-40.	Others	ERO reports that the train suffered ATS COMMS LOST 10 times between 16:45 and 17:40.  18:00 - Immediate Stop Icon, ISCB tripped, PCF fault, After 1 minute, all faults cleared, help beak restricted, Alstom will meet train at BLASTN, MIC decided to replace this train with IAVIPS AIMSZ and remove IMSPERAVES.  18:12 - Alstom tech boarded train and adapt if train could remain in service, but MCL worth INVIPS IMVIPS and trainess IMVIPS-IAVIPS to showing multiple problems.  18:13 - INVIPS IMVIPS less than the Invited Problems in the Invited Problems.  18:23 - INVIPS IMVIPS invited from Fundover platform 11.  18:23 - INVIPS IMVIPS entered mainline.  18:23 - INVIPS IMVIPS entered mainline.  18:23 - INVIPS IMVIPS entered mainline.	the MHU and network cables for ATC on train 18 everything was
2019-08-19 8-24:00	LRV06-23	11328	LRV is experiencing Obstructed Motion fault, resulting in 2 EBs. (Coupled with LRY1123) at BLA station	Voltage	IddS  REO (RVGS/133 LBV is experiencing Obstructed Mexicon fault, resulting in 2 EEs. (Coupled with LRV1123) at RLA station. Currently disabled at RLA trl  80:23 Yeard contacted and they have a space train available.  82 SA AM Alson in Idd with train. Asking the RED to reset the train  82 SA AM Exercise in Idd with train. Asking the RED to reset the train  82 SA AM Train good for operation. Yard advised and Commo desk also advised  83 SA AM Train reporting two break fault  83 SA AM Train from the solving to reset and lost position.  80 CA AM Ascord Tach advised train ready to go back to the MSF  90 SA AM train Int's BLA to exiting MI.  90 LT Train extend MIL.  90 LT Train reset with MEXICON Commodition.	

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Open	Asset ID	Work Order	Description	Sub-system Impacted	Operational context (from YCC)	Repair
2019-08-19 14:52:00	LRV18-LRV25	11344	IEV18/25 emergency braked BAY. Track 1. ERO did not get an alarm for the BB and neither did MLC IEV18 VOBC is non- communicating at TUN, track 2.	Others	IRVMg/25 emergency braked EAV, Track 1. ERO did not get an alarm for the E8 and meltited did McL. (EV only his 1 VOIC. Moved to TUM.  -INVIS VOBC is non-communicating at TUM track 2. 3 second reset authorized.  -IAVAI his, help Deak contacted for replacement. No replacement available and his, help Deak contacted for replacement. No replacement available for the Tumber of Tu	Investigation from Altions was done see thesheld the antenness the MRU and entrounts allowed and ACC anten 18 Security thing seem for found tight. Theles need to do the further investigation.
2019-08-19 16:45:00	LRV03-34	11353	LRV03-LRV34 experienced a brake fault on the trailing train 34 brake # 1.	Methanical Brake	IRVU3 Brake set 91 in fault. ERO will reset: 16.3.2 Brakes reset. IRV can depart (IRV) 16.3.2 Decision to replace IRV with spare made by MIC to prevent further delays recurring brake faults!	Investigation on LRV34 done by Wabter, 1 caliper replaced on MC1 08/20, train to be released during the afternoon, to be monitored.

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# Events during Trial Run MADOUTH UND 123 NA NA Others Obtool 1973/23 departed travery's in-time Out 1973/23 departed travery

9/20 <b>/2</b> 019 07.55:00	LRV30	11438	intermittent code IOS052. LRV mobile	TOMS	ERO: on LFV30 MC2 IOS Code 652 but no abors in fault on the DOU	IOS 52 without oppresin fault Fake IOS, under investigation.  Event of froult to capture as it remains only few random IOS 52.
9/20/2019 13.23.46	. evin	11445	EPO resorting MCT dab of #LPV10 loring HVXO when he keys out and the cab is getting too hot. Alatom to see the train at TUN	alners	EPO reporting MC cate of LRVID loans HVAC when he keys out and free cate a significant part of victoring see the team of TUN.  TIME EPO advised HVAC is now completely off in the train. Helpdess contrasted white the HVAC is now completely off in the train. Helpdess contrasted distanced train should be removed from service due to the VAC.  TO B Helpdesk contacted to have the spars train ready.—ERS M Califary contacted to have an ERO staff replacement train.	cleared. Under observation
8/20/2019 21:12:00	LRV16-28		M4		LRVISIZ emergency braked due to mode changed white the train is misoning all SVD for track!  200 for, ED reset  200 for, ED reset  200 for, ED reset  200 for, All Desk contacted  200 for, All of the state of the trackleshoot on Confed LND.  200 for, LNV 70-sension implemented with shuffle between TUN-LVD.  tout 2  200 for, EN and PIDG amountements made.  200 for, Rail Stuck, BAKSH contacted to attend.	□ Impaed Under investigation

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8/21/2019 R\ 22:00:00	V10 11586	ERO reporting ios 276 and immediate stop MC1 in LBV10	ERO reporting from IRMO MCL immidiate stop on the signal box and no struction. PCES graped out.  21.57 Reset for PCE may access ful.  21.57 Reset for PCE may access ful.  22.01 Felgional a disk of Supportion 1. Mitchell a wave.  22.04 Amount consent to not de (2A), IRAC platform of classd.  22.05 Supf. N. Lalonde egisted of 1. Charter.  22.15 Supf. N. Lalonde egisted of 1. Charter.  22.15 Supf. N. Lalonde egisted of 1. Charter.  22.25 Alston Tech contacted the train. reset and isolating the PCE unsuccessful. Train is able to be driven off the minifing the PCE unsuccessful. Train is able to be driven off the minifing but not fit for service.  22.33 SUNOS-RW32 Launched as replacement.  22.33 SUNOS-RW32 in service from ST. L. E.  22.45 SUNOS-RW32 for the minifine.	tine competers replaced
8/25/2019 ERV 23:25:00	v21 11850	ERO reporting LRV slowed to 4 KPH entering PIMs to no an exit line 23.12 ERO M. Diez reporting that LRV21 4RV22 slowed to 3 KPH entering PIMs to no an exit line 23.2 LRV29-4RV31 ERO . 2 Ahmed reporting the LRV slowed to 4 KPH entering the stadion on an exit line	No Data from TOCC	Under investigation

