

Rail Fleet Services Monthly Report September 2012

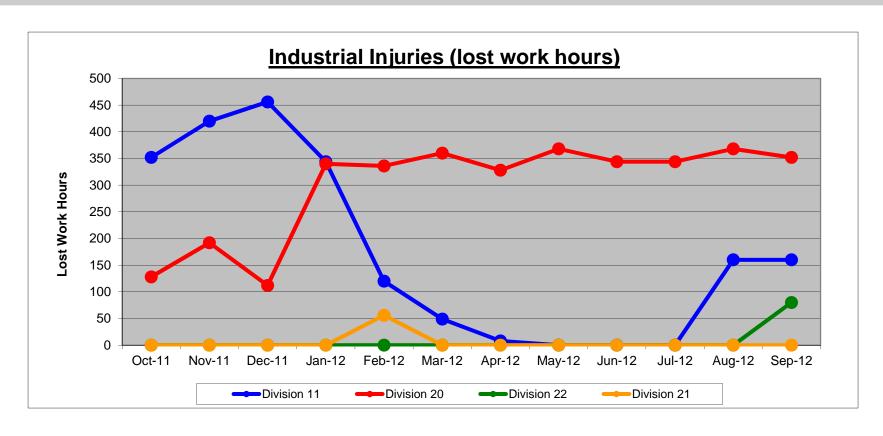


Table of Contents

•	Safety	
	- Industrial Injuries	Page 3
	- Rail Vehicle Accidents & Major Incidents	Page 4
•	Customer Service	
	 Service Delivery – AM/PM Pull-Outs 	Page 5
	- Vehicle Utilization – Blue Line & Green Line	Page 6
	- Vehicle Utilization – Red Line & Gold Line	Page 7
	- Mean Miles Between Failures (Major)	Page 8
•	Business Processes	
	- Major Incidents	Page 9
	- Preventive Maintenance Compliance	Page 10
•	Finance	
	- Vandalism & Graffiti Costs	Page 11
	- Graffiti Pictures	Page 12
	- Material & Labor Costs	Page 13
	- Cost per mile	Page 14
	- Absence vs. Overtime	Page 15
•	Engineering	
	- Rail Vehicle Engineering Project Summary	Page 16
	- P2550 Vehicle Acceptance Program	Page 17
•	Quality Assurance	
	- Warranty Program Projects Summary	Page 18
•	Growth	
	 RFS Instruction Department Activities 	Page 19



Industrial Injuries – Lost Work Hours September 2012



	Oct-11	Nov-11	Dec-11	Jan-12	Feb-12	Mar-12	Apr-12	May-12	Jun-12	Jul-12	Aug-12	Sep-12	Year to Date
Division 11	352	420	456	344	120	49	8	0	0	0	160	160	2,069
Division 20	128	192	112	340	336	360	328	368	344	344	368	352	3,572
Division 22	0	0	0	0	0	0	0	0	0	0	0	80	80
Division 21	0	0	0	0	56	0	0	0	0	0	0	0	56
Totals	480	612	568	684	512	409	336	368	344	344	528	592	5,777



Rail Vehicle Accidents & Major Incidents September 2012

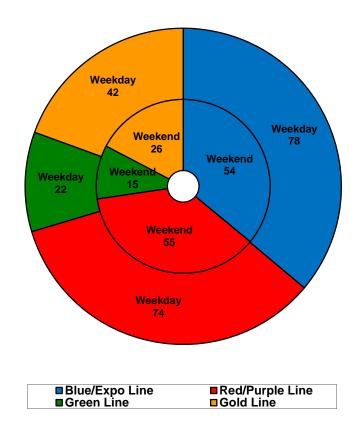
Repair Costs	Oct-11	Nov-11	Dec-11	Jan-12	Feb-12	Mar-12	Apr-12	May-12	Jun-12	Jul-12	Aug-12	Sep-12	Totals
Blue/Expo Line	\$888	\$16,188	\$1,199	\$4,704	\$5,087	\$18,570	\$2,675	\$1,718	\$1,186	\$674	\$8,226	\$4,726	\$65,841
Red/Purple Line	\$0	\$0	\$0	\$0	\$0	\$0	\$1,115	\$571	\$0	\$0	\$0	\$778	\$2,464
Green Line	\$0	\$0	\$0	\$0	\$0	\$0	\$989	\$0	\$0	\$120	\$0	\$0	\$1,109
Gold Line	\$320	\$0	\$0	\$0	\$0	\$4,134	\$0	\$0	\$752	\$0	\$1,583	\$0	\$6,789
Totals	\$1,208	\$16,188	\$1,199	\$4,704	\$5,087	\$22,704	\$4,779	\$2,289	\$1,938	\$794	\$9,809	\$5,504	\$76,203

Metro Blue I	Main Line			
Date	Incident #	Problem code	Incident Description	Cost
9/13/2012	2229189	Train vs. Object	A 10-71 involving Train 1 was reported at 92nd grade crossing with train running over a street sign.	\$189.0
9/14/2012	2229405	Train vs. Vehicle	A 10-73 involving Train 17 was reported at intersection of Washington and Olive Street.	\$4,087.00
9/17/2012	2230519	Train vs. Pedestrian	A 10-72 was reported involving Train 15 heading southbound at Florence Station.	\$450.00
				4,726.0
Metro Red L	.ine			
9/4/2012	2225231	Train vs. Pedestrian	A 10-72 was reported involving Train 55.	\$778.00
				778.0
Metro Gold	Line			
9/11/2012	2227865	Train vs. Object	A 10-71 was reported with train making contact with sign mounted on cantenary pole just west of Ford Street, Track 1.	\$0.0
				\$0.0
			GRAND TOTAL	\$5,504.0



Service Delivery September 2012

Blue/Expo Line F	Fleet Size:	92	
	Vehicles	Average	% Up
Pull Out	Required	Available	(Down)
Weekday:	78	79	102%
Weekend:	54	66	123%
Late Pullouts: 3 *			
Monthly Mileage:	609,561		
Red/Purple Line	Fleet Size:	104	
	Vehicles	Average	% Up
Pull Out	Required	Available	(Down)
Weekday:	74	79	107%
Weekend:	55	72	132%
Late Pullouts: 0 *			
Monthly Mileage:	639,382		
Green Line Fleet		29	
	<u>Vehicles</u>	<u>Average</u>	<u>% Up</u>
Pull Out	Required	<u>Available</u>	
Weekday:	22	23	106%
Weekend:	15	19	129%
Late Pullouts: 0 *			
Monthly Mileage:	223,697		
Gold Line Fleet	Size:	50	
	Vehicles	Average	<u>% Up</u>
Pull Out	Required	<u>Available</u>	(Down)
Weekday:	42	43	103%
Weekend:	26	41	158%
Late Pullouts: 0 *			
Monthly Mileage:	275,079		



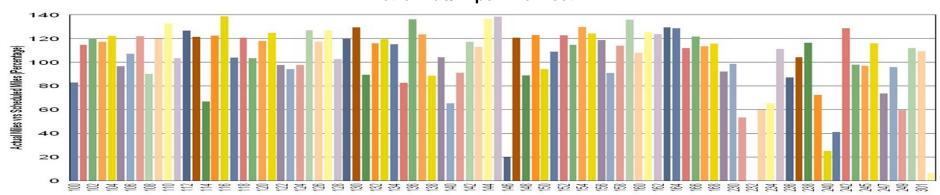


Metro

^{*} Due to a vehicle -related problem

Vehicle Utilization September 2012

Metro Blue/Expo Line Fleet



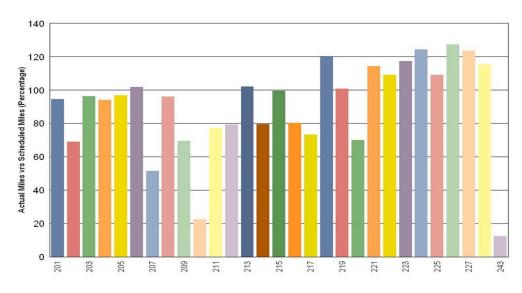
Blue/Expo Lines:

- 146 Vehicle held out of service for floor repair.
- 232 Vehicle held out of service for training purposes.
- 240 Vehicle held out of service friction brake repair.
- Wehicle held out of service for auxiliary inverter repair.

Green Line:

- Vehicle held out of service to fix Propulsion
 Blower Motor circuit breakers tripping problem.
 Vehicle is currently back in service.
- Vehicle held out of service to fix leveling problem causing propulsion faults. Vehicle continues undergoing troubleshooting, testing, and repair by staff.

Metro Green Line





Vehicle Utilization September 2012

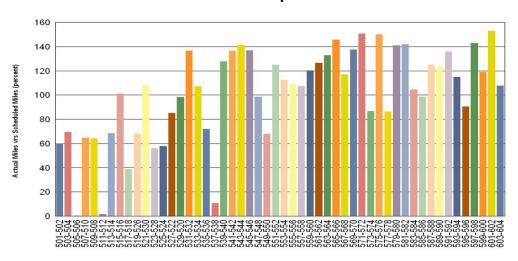
Metro Red/Purple Lines

Red/Purple Lines: Explanation for under-used vehicles:

Vehicle held out of service due to brakes not releasing. Repairs complete and vehicle is being recommissioned.
 Vehicle held out of service awaiting gearbox delivery which is scheduled for mid-October.
 Vehicle held out of service due to late delivery of overhauled gearboxes. Trucks swapped to return vehicle back to service.

return vehicle back to service.

537-538 Vehicle held out of service due to noisy front truck. Problem is a defective batch of GTO Thyristors which staff is working with vendor on root cause.



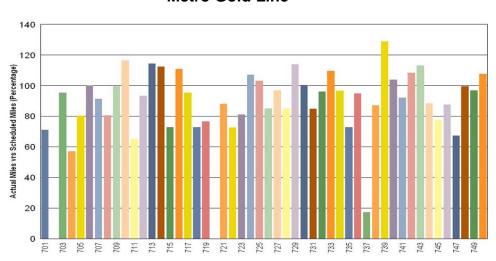
Metro Gold Line

Gold Line:

702 Vehicle was conditionally accepted on 9/20/12 after which MTA modifications had to be installed.

720 Vehicle continues to have burned 208VDC wires in the articulation area. Staff anticipates receiving the tools and parts from vendor in early October to initiate repairs.

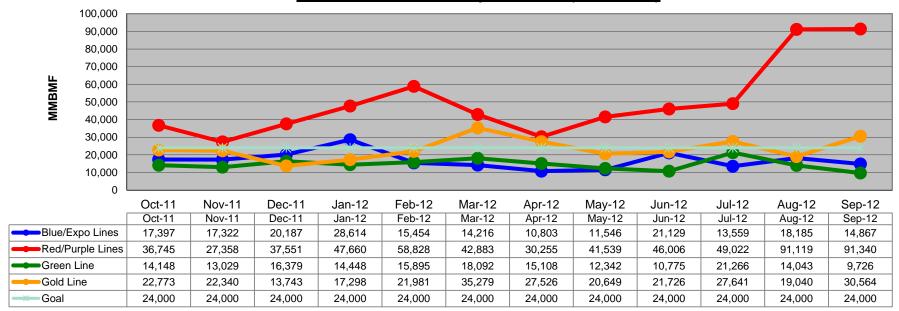
737 Vehicle continues to have HSCB, friction brake, and pantograph issues. Staff continues to work on a resolution.



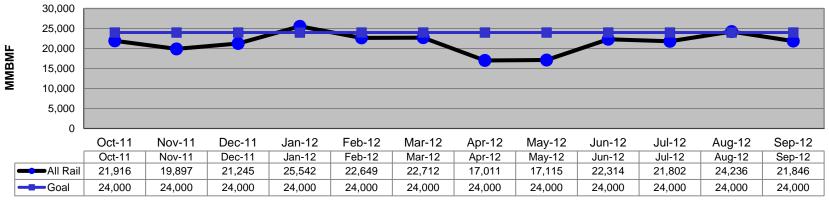


Mean Miles Between Failures (Major) Year to Date

Mean Miles Between Major Failures (12 months)



Mean Miles Between Major Failures (all)

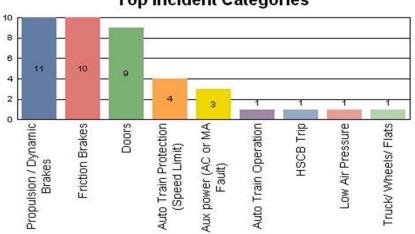




Major Incidents September 2012

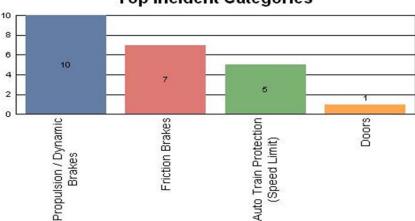
Metro Blue/Expo Line

Top Incident Categories



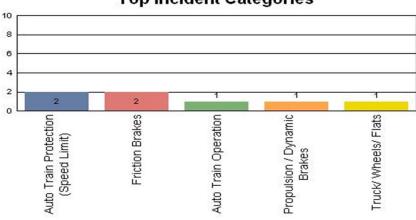
Metro Green Line

Top Incident Categories



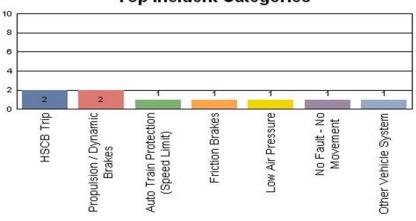
Metro Red/Purple Line

Top Incident Categories



Metro Gold Line

Top Incident Categories



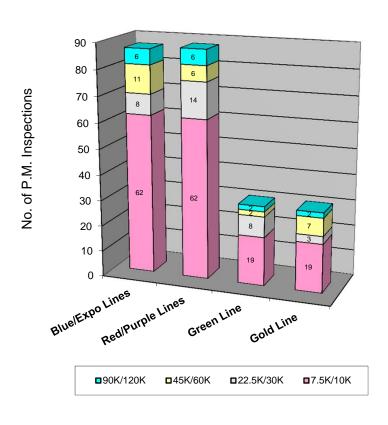


Preventive Maintenance Compliance September 2012

PM Compliance	Oct-11	Nov-11	Dec-11	Jan-12	Feb-12	Mar-12	Apr-12	May-12	Jun-12	Jul-12	Aug-12	Sep-12
Blue/Expo Lines	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
Red/Purple Lines	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	*98%	100%
Green Line	100%	100%	96%	100%	100%	100%	100%	100%	96%	100%	100%	100%
Gold Line	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%

September 2012 Preventive Maintenance Inspections

No. of P.M. Inspections	7.5K/10K	22.5K/30K	45K/60K	90K/120K	Totals
Blue/Expo Lines	62	8	11	6	87
Red/Purple Lines	62	14	6	6	88
Green Line	19	8	2	2	31
Gold Line	19	3	7	2	31
Totals:	162	33	26	16	237

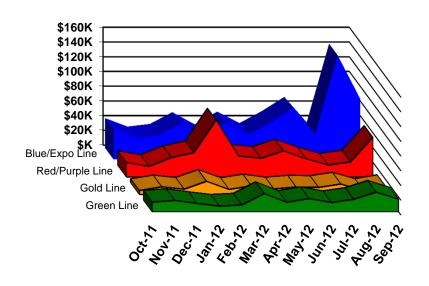




Vandalism & Graffiti Report September 2012

	Oct-11	Nov-11	Dec-11	Jan-12	Feb-12	Mar-12	Apr-12	May-12	Jun-12	Jul-12	Aug-12	Sep-12	Year-to- Date
Blue/Expo Line	\$41K	\$29K	\$33K	\$49K	\$32K	\$49K	\$34K	\$50K	\$69K	\$35K	\$142K	\$83K	\$645K
Red/Purple Line	\$20K	\$14K	\$26K	\$33K	\$77K	\$28K	\$25K	\$35K	\$25K	\$16K	\$20K	\$54K	\$375K
Green Line	\$13K	\$15K	\$11K	\$8K	\$9K	\$25K	\$13K	\$18K	\$12K	\$17K	\$27K	\$17K	\$185K
Gold Line	\$5K	\$10K	\$7K	\$18K	\$7K	\$11K	\$7K	\$10K	\$9K	\$14K	\$5K	\$11K	\$115K
Totals:	\$78K	\$69K	\$77K	\$107K	\$125K	\$114K	\$79K	\$113K	\$116K	\$82K	\$194K	\$165K	\$1,319K

September	2012 Vanda	lism & Graffi	ti - All Rail	
	Qty	Labor	Materials	Totals
Windows replaced	28	\$8,820	\$9,253	\$18,073
Vandal Shields	866	\$26,492	\$9,566	\$36,058
Seats Cleaned	773	\$2,073	\$0	\$2,073
Seats Replaced	1,403	\$44,094	\$42,578	\$86,672
Graffiti removal - other	760	\$15,197	\$1,200	\$16,397
Repainting panels	10	\$4,885	\$495	\$5,380
Totals	3,840	\$101,561	\$63,092	\$164,653





Graffiti Pictures September 2012

Blue Line



Green Line



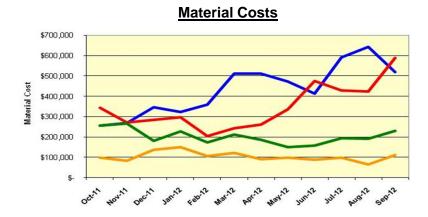
Gold Line





Material and Labor Costs September 2012

MATERIALS	Oct-11	Nov-11	Dec-11	Jan-12	Feb-12	Mar-12	Apr-12	May-12	,	Jun-12	Jul-12	Aug-12	Sep-12
Blue/Expo Lines	\$ 256,152	\$ 268,760	\$ 346,891	\$ 322,169	\$ 359,911	\$ 510,512	\$ 511,185	\$ 473,281	\$	414,601	\$ 591,928	\$ 643,006	\$ 520,023
Red/Purple Lines	\$ 344,563	\$ 272,291	\$ 285,916	\$ 296,353	\$ 205,225	\$ 244,902	\$ 260,532	\$ 335,824	\$	474,908	\$ 428,864	\$ 424,173	\$ 587,362
Green Line	\$ 254,691	\$ 265,489	\$ 180,929	\$ 227,110	\$ 172,152	\$ 210,220	\$ 186,572	\$ 149,660	\$	157,920	\$ 194,003	\$ 189,811	\$ 230,008
Gold Line	\$ 98,380	\$ 83,425	\$ 138,599	\$ 150,971	\$ 106,736	\$ 121,821	\$ 91,218	\$ 98,407	\$	88,885	\$ 98,449	\$ 64,112	\$ 112,270
Totals	\$ 953,786	\$ 889,965	\$ 952,335	\$ 996,603	\$ 844,024	\$ 1,087,455	\$ 1,049,507	\$ 1,057,172	\$ ^	1,136,314	\$ 1,313,244	\$ 1,321,102	\$ 1,449,663



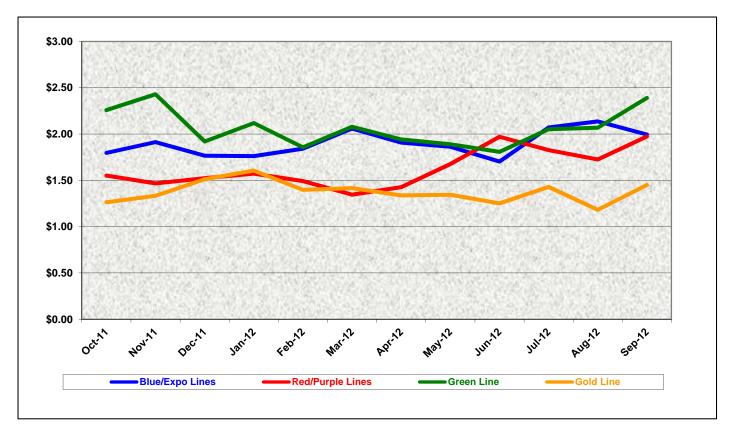


LABOR	Oct-11	Nov-11	Dec-11	Jan-12	Feb-12	Mar-12	Apr-12	May-12	Jun-12	Jul-12	Aug-12	Sep-12
Blue/Expo Lines	\$ 493,739	\$ 526,600	\$ 544,564	\$ 534,797	\$ 522,603	\$ 601,905	\$ 622,113	\$ 687,897	\$ 628,928	\$ 699,849	\$ 716,987	\$ 695,926
Red/Purple Lines	\$ 510,944	\$ 530,408	\$ 571,885	\$ 602,770	\$ 584,940	\$ 562,875	\$ 602,434	\$ 639,102	\$ 613,032	\$ 645,748	\$ 676,501	\$ 674,192
Green Line	\$ 256,610	\$ 272,603	\$ 259,198	\$ 262,563	\$ 241,042	\$ 278,653	\$ 253,643	\$ 293,492	\$ 251,094	\$ 286,110	\$ 304,066	\$ 304,487
Gold Line	\$ 246,890	\$ 274,017	\$ 276,926	\$ 321,152	\$ 267,372	\$ 277,944	\$ 276,975	\$ 290,375	\$ 264,536	\$ 296,565	\$ 296,078	\$ 286,489
Totals	\$1,508,183	\$1,603,628	\$1,652,573	\$1,721,282	\$1,615,957	\$1,721,377	\$1,755,165	\$1,910,866	\$1,757,590	\$1,928,272	\$1,993,632	\$1,961,094



Cost Per Mile September 2012

Cost per mile:	Oct-11	Nov-11	Dec-11	Jan-12	Feb-12	Mar-12	Apr-12	May-12	Jun-12	Jul-12	Aug-12	Sep-12
Blue/Expo Lines	\$1.80	\$1.91	\$1.77	\$1.76	\$1.84	\$2.06	\$1.91	\$1.86	\$1.70	\$2.07	\$2.14	\$1.99
Red/Purple Lines	\$1.55	\$1.47	\$1.52	\$1.57	\$1.49	\$1.35	\$1.43	\$1.68	\$1.97	\$1.83	\$1.73	\$1.97
Green Line	\$2.26	\$2.43	\$1.92	\$2.12	\$1.86	\$2.08	\$1.94	\$1.89	\$1.81	\$2.05	\$2.07	\$2.39
Gold Line	\$1.26	\$1.33	\$1.51	\$1.61	\$1.40	\$1.42	\$1.34	\$1.34	\$1.25	\$1.43	\$1.18	\$1.45





Absences vs. Overtime September 2012

	3940	3941	3942	3943	3944	3947	
ABSENCE TYPE and HOURS	Admin.	Blue	Red	Green	Gold	Ехро	Total
AWP-ABSENT W/O PERMISSION	0.00	8.00	0.00	8.00	0.00	0.00	16.00
BER-BEAVEMENT	0.00	64.00	40.00	0.00	0.00	0.00	104.00
CTO-COMPENSATORY TIME OFF	12.00	220.48	392.00	152.00	170.00	52.00	998.48
CUT-EMPLOYEE LEAVES EARLY	1.03	1.79	0.00	0.98	1.94	0.00	5.74
CVA - CASUAL VACATION	0.00	66.00	608.50	0.00	232.00	0.00	906.50
DSL-DISABILITY LEAVE/LONG	0.00	608.00	168.00	152.00	272.00	0.00	1,200.00
EFH-EMG. FLOAT HOL.	0.00	8.00	80.00	64.00	40.00	0.00	192.00
ETO-EXCUSED TIME OFF	10.50	60.85	41.41	7.00	38.26	0.50	158.52
FMI-FAM IND INJURY	0.00	0.00	0.00	80.00	0.00	0.00	80.00
FML-FAMILY CARE LEAVE	0.00	472.00	360.00	80.00	24.00	0.00	936.00
FMS-FAMILY LEAVE SICK	0.00	220.30	148.00	16.00	16.00	0.00	400.30
HLF-HOLIDAY FLOATING	40.00	350.00	368.00	112.00	208.00	32.00	1,110.00
HNP-HOLIDAY NOT PAID	0.00	0.00	0.00	16.00	8.00	0.00	24.00
HOL-HOLIDAY LEGAL	88.00	528.00	496.00	168.00	128.00	24.00	1,432.00
II-INDUSTRIAL INJURY	0.00	24.00	336.00	80.00	0.00	0.00	440.00
IIR-INDUS INJURY-REOCCUR.	0.00	136.00	16.00	0.00	0.00	0.00	152.00
JUR-JURY DUTY	0.00	0.00	8.00	8.00	0.00	0.00	16.00
LC1-LABOR CODE 233	16.00	89.50	123.68	32.00	144.00	8.00	413.18
MLN-MILITARY ABSENCE-UNPAID	0.00	0.00	0.00	32.00	0.00	0.00	32.00
RTO-REQUESTED TIME OFF-NO PA	0.00	34.02	0.00	19.76	0.00	0.00	53.78
SCK-SICK PAY	0.00	96.00	64.00	40.00	64.00	0.00	264.00
SCW-SICK WITHOUT PAY	0.00	48.00	8.00	56.00	16.00	0.00	128.00
TAR-TARDY	0.00	3.59	2.51	1.57	0.05	0.00	7.72
UB-UNION BUSINESS	0.00	0.00	0.00	0.00	8.00	0.00	8.00
UNP-UNION BUS PAID	0.00	0.00	0.00	0.00	48.00	0.00	48.00
VAC-VACATION	112.00	1,081.22	708.00	298.67	284.00	32.00	2,515.89
VAC-VACATION WHILE SICK	0.00	0.00	0.00	0.00	48.67	0.00	48.67
Total Absence Hours	280	4,120	3,968	1,424	1,751	149	11,691
Number of Work Force (assigned)	34	128	120	53	52	6	393
Full Work Force hours/month	5,892	22,182	20,796	9,185	9,012	1,040	68,107
Absence as a % of Work Force	5%	19%	19%	16%	19%	14%	17%
OVERTIME TYPE and HOURS	3940	3941	3942	3943	3944	3947	Total
CTB-COMPENSATORY TIME TO BANK	2	195	255	180	108	0	741
OTP-PREM OVERTIME	516	4866	4682	1417	1451	148	13081
WLO-Worked Lunch Overtime	22	129	165	74	86	8	483
Total	539	5190	5102	1672	1645	156	14304
Overtime as a % of Work Force	9%	23%	25%	18%	18%	15%	21%
				,			
UNCOVERED ABSENCES	3940	3941	3942	3943	3944	3947	<u>Total</u>
Absences FTE	2	24	23	8	10	1	67
OTP FTE	3	30	29	10	9	1	83
FTE Difference	-1	-6	-6	-2	1	0	-16



Rail Vehicle Engineering Project Summary September 2012

Preparation of Engineering Technical Specifications	Tracking #	Status
Red Line AC Gear Box (Rev. 0)	A650/TS/026	Released to Procurement for bid
MBL Battery Set	P865/P2020/TS/069	In developing process
Vital Relay Calibration P865/P202	Sole Source	In Process
Windows glass and rubber glazing specification	P865-P2020/TS-066	Released to Procurement for bid
Friction Brake Kit Less Air Compressor Overhaul	P2000/TS/035 Rev 0	Released to Procurement for bid - SS was signed - Going to Board for approval
A650 Battery Specification	A650/TS/39	Released to Procurement for bid - Answered Hoppeke Questions
Powered Axle Overhaul SOW	P865-P2020/TS/063 and 052	Released to Procurement for bid
Seat Insert	P865-P2020/TS/62	Released to Procurement - Awarded to Sardo
Red Line DC Gear Box (Rev. 0)	P650/TS/040	Released to Procurement for bid
Vandal Shield for all lines	A650-P865-P2000-P2550/TS/012	Released to Procurement- Bid was opened on 07/31/12 - Waiting for Mini Board aaproval
Aux power supply equipment (APSE) - Static Inverter	P865-P2020/TS/065 Rev. 0 [2 Parts]	Released to Procurement for bid
Tire kit specification	P865-P2020/TS/064	Released to Procurement for bid
Red Line (Base Buy) DC Traction Motor	P650/TS/041	Released to Procurement - Bid is due 09/14/12
MBL HVAC Compressor	P865/P2020/TS/067 Rev. 0	Released to Procurement for bid
Head Sing LED	P2000/TS/xx	Draft in process
Chevron springs	P865/P2020/TS/068 Rev. 0	Released to Procurement for bid
Filter-Fresh Air Filter-Return Air	P2550/TS/004 P2550/TS/005	In review process In review process
Filler-Return All	General - All Lines	Status
Roadway Worker Protection	General - All Lines	CPUC/Installing ProTran1 Device-P865/P2020/P2000 completed, A650/P2550 in process
Fleet Faliue Analysis	 	CH2M Hill - LTK
New Radios installed to replace old radios	 	Meeting 3/7/2012-Contract awarded, MBL and P2000 are in installtion process.
Bike Space	 	P2000/P2550/A650 Fleet modification completed.
Bike Space	1	If 2000/1 2330/A030 1 leet modification completed.
	P2000 Overhaul Program	Status
Master Controller - Bombardier Refurbish	1 2000 G Vollidar I Togram	Ongoing Program
RSS and EOSS Bundle Cables/Connectors - Glenair		In Progress
CCH possible replacement (Focon)		Send information to Focon
		Base Line data confirmed and existing TWC test equipment mapped for performance. Systra on
TWC Calibration procedure.		board developing TWC caliration procedures.
•	•	
	P865/P2020 Program	Status
Remove the remotely reset CB1 Breaker		Fleet modification completed.
		H&K installed "G" sensor on transponder and collected data for analysis - 03/08/12. New carbody
		mounted bracket were tested and completed fleet modification. New anttenas are in installtion
"G" force measurement on Transponder installed on P865/P2020		progress.
		ABB Prototype installed on 07/24/12 for one month test period. Test was successful. In process of
Under seat - No motion relays		procuring kits.
Replace air compressor DC motor with AC motor		Knorr prototype on order - Due in October 2012
Replace air compressor DC motor with AC motor	Doors Calley Carry	Knorr prototype on order - Due in October 2012
	P2000 Gold to Green	Knorr prototype on order - Due in October 2012 Status
Replace air compressor DC motor with AC motor Signal package conversion (Gold to green)	P2000 Gold to Green	Knorr prototype on order - Due in October 2012 Status On-hold
Signal package conversion (Gold to green)	P2000 Gold to Green	Knorr prototype on order - Due in October 2012 Status On-hold 90% complete. Base line established, TWC antenna jig designed and built, procedure written and
	P2000 Gold to Green	Knorr prototype on order - Due in October 2012 Status On-hold
Signal package conversion (Gold to green)		Knorr prototype on order - Due in October 2012 Status On-hold 90% complete. Base line established, TWC antenna jig designed and built, procedure written and worked though. Requires final document review and issue.
Signal package conversion (Gold to green) TWC Investigation / Calibration (Systra)	P2000 Gold to Green A650 Overhaul Program	Knorr prototype on order - Due in October 2012 Status On-hold 90% complete. Base line established, TWC antenna jig designed and built, procedure written and worked though. Requires final document review and issue. Status
Signal package conversion (Gold to green) TWC Investigation / Calibration (Systra) Midlife Overhaul Specification		Knorr prototype on order - Due in October 2012 Status On-hold 90% complete. Base line established, TWC antenna jig designed and built, procedure written and worked though. Requires final document review and issue. Status Draft complete by Metro. In process of Consultant selection to complete.
Signal package conversion (Gold to green) TWC Investigation / Calibration (Systra) Midlife Overhaul Specification HPT Upgrade		Knorr prototype on order - Due in October 2012 Status On-hold 90% complete. Base line established, TWC antenna jig designed and built, procedure written and worked though. Requires final document review and issue. Status Draft complete by Metro. In process of Consultant selection to complete. Wabtec Proposal received. NTP issued 08/08/12. One car set prototype in testing
Signal package conversion (Gold to green) TWC Investigation / Calibration (Systra) Midlife Overhaul Specification HPT Upgrade ABI New Traction Motor Mount		Knorr prototype on order - Due in October 2012 Status On-hold 90% complete. Base line established, TWC antenna jig designed and built, procedure written and worked though. Requires final document review and issue. Status Draft complete by Metro. In process of Consultant selection to complete. Wabtec Proposal received. NTP issued 08/08/12. One car set prototype in testing ABI for Fleet Modification in progress. A total of sventy seven (86) trucks were completed.
Signal package conversion (Gold to green) TWC Investigation / Calibration (Systra) Midlife Overhaul Specification HPT Upgrade ABI New Traction Motor Mount Friction Brake Kit Overhaul		Status On-hold 90% complete. Base line established, TWC antenna jig designed and built, procedure written and worked though. Requires final document review and issue. Status Draft complete by Metro. In process of Consultant selection to complete. Wabtec Proposal received. NTP issued 08/08/12. One car set prototype in testing ABI for Fleet Modification in progress. A total of sventy seven (86) trucks were completed. Overhaul program in place - Wabtec (30 Base cars were added and approved)
Signal package conversion (Gold to green) TWC Investigation / Calibration (Systra) Midlife Overhaul Specification HPT Upgrade ABI New Traction Motor Mount		Knorr prototype on order - Due in October 2012 Status On-hold 90% complete. Base line established, TWC antenna jig designed and built, procedure written and worked though. Requires final document review and issue. Status Draft complete by Metro. In process of Consultant selection to complete. Wabtec Proposal received. NTP issued 08/08/12. One car set prototype in testing ABI for Fleet Modification in progress. A total of sventy seven (86) trucks were completed. Overhaul program in place - Wabtec (30 Base cars were added and approved) Dealing with OEM - No bids received from others. Proceeding with PFF.
Signal package conversion (Gold to green) TWC Investigation / Calibration (Systra) Midlife Overhaul Specification HPT Upgrade ABI New Traction Motor Mount Friction Brake Kit Overhaul Ribbed Rubber Flooring PRF		Knorr prototype on order - Due in October 2012 Status On-hold 90% complete. Base line established, TWC antenna jig designed and built, procedure written and worked though. Requires final document review and issue. Status Draft complete by Metro. In process of Consultant selection to complete. Wabtec Proposal received. NTP issued 08/08/12. One car set prototype in testing ABI for Fleet Modification in progress. A total of sventy seven (86) trucks were completed. Overhaul program in place - Wabtec (30 Base cars were added and approved)
Signal package conversion (Gold to green) TWC Investigation / Calibration (Systra) Midlife Overhaul Specification HPT Upgrade ABI New Traction Motor Mount Friction Brake Kit Overhaul Ribbed Rubber Flooring PRF Door Operator Gearbox and Rollers Overhaul		Knorr prototype on order - Due in October 2012 Status On-hold 90% complete. Base line established, TWC antenna jig designed and built, procedure written and worked though. Requires final document review and issue. Status Draft complete by Metro. In process of Consultant selection to complete. Wabtec Proposal received. NTP issued 08/08/12 One car set prototype in testing ABI for Fleet Modification in progress. A total of sventy seven (86) trucks were completed. Overhaul program in place - Wabtec (30 Base cars were added and approved) Dealing with OEM - No bids received from others. Proceeding with PRF. In Progress - Buying kits from Vapor Stone to overhaul GB and motor in house.
Signal package conversion (Gold to green) TWC Investigation / Calibration (Systra) Midlife Overhaul Specification HPT Upgrade ABI New Traction Motor Mount Friction Brake Kit Overhaul Ribbed Rubber Flooring PRF Door Operator Gearbox and Rollers Overhaul		Knorr prototype on order - Due in October 2012 Status On-hold 90% complete. Base line established, TWC antenna jig designed and built, procedure written and worked though. Requires final document review and issue. Status Draft complete by Metro. In process of Consultant selection to complete. Wabtec Proposal received. NTP issued 08/08/12 One car set prototype in testing ABI for Fleet Modification in progress. A total of sventy seven (86) trucks were completed. Overhaul program in place - Wabtec (30 Base cars were added and approved) Dealing with OEM - No bids received from others. Proceeding with PRF. In Progress - Buying kits from Vapor Stone to overhaul GB and motor in house.
Signal package conversion (Gold to green) TWC Investigation / Calibration (Systra) Midlife Overhaul Specification HPT Upgrade ABI New Traction Motor Mount Friction Brake Kit Overhaul Ribbed Rubber Flooring PRF Door Operator Gearbox and Rollers Overhaul	A650 Overhaul Program	Knorr prototype on order - Due in October 2012 Status On-hold 90% complete. Base line established, TWC antenna jig designed and built, procedure written and worked though. Requires final document review and issue. Status Draft complete by Metro. In process of Consultant selection to complete. Wabtec Proposal received. NTP issued 08/08/12. One car set prototype in testing ABI for Fleet Modification in progress. A total of sventy seven (86) trucks were completed. Overhaul program in place - Wabtec (30 Base cars were added and approved) Dealing with OEM - No bids received from others. Proceeding with PRF. In Progress - Buying kits from Vapor Stone to overhaul GB and motor in house. Unit upgrade - Fleet issues (Wabtec) to provide new unit proposal. Status Fiffity cars have been Final Accepted.
Signal package conversion (Gold to green) TWC Investigation / Calibration (Systra) Midlife Overhaul Specification HPT Upgrade ABI New Traction Motor Mount Friction Brake Kit Overhaul Ribbed Rubber Flooring PRF Door Operator Gearbox and Rollers Overhaul H-4 electronic units Vehicle Acceptance 3P Flip Up Seat Finger Guard	A650 Overhaul Program	Knorr prototype on order - Due in October 2012 Status On-hold 90% complete. Base line established, TWC antenna jig designed and built, procedure written and worked though. Requires final document review and issue. Status Draft complete by Metro. In process of Consultant selection to complete. Wabtec Proposal received. NTP issued 08/08/12. One car set prototype in testing ABI for Fleet Modification in progress. A total of sventy seven (86) trucks were completed. Overhaul program in place - Wabtec (30 Base cars were added and approved) Dealing with OEM - No bids received from others. Proceeding with PRF. In Progress - Buying kits from Vapor Stone to overhaul GB and motor in house. Unit upgrade - Fleet issues (Wabtec) to provide new unit proposal.
Signal package conversion (Gold to green) TWC Investigation / Calibration (Systra) Midlife Overhaul Specification HPT Upgrade ABI New Traction Motor Mount Friction Brake Kit Overhaul Ribbed Rubber Flooring PRF Door Operator Gearbox and Rollers Overhaul H-4 electronic units Vehicle Acceptance 3P Flip Up Seat Finger Guard Find alternative Vendor for Reverse Engineer PCB Boards P2550	A650 Overhaul Program	Knorr prototype on order - Due in October 2012 Status On-hold 90% complete. Base line established, TWC antenna jig designed and built, procedure written and worked though. Requires final document review and issue. Status Draft complete by Metro. In process of Consultant selection to complete. Wabtec Proposal received. NTP issued 08/08/12. One car set prototype in testing ABI for Fleet Modification in progress. A total of sventy seven (86) trucks were completed. Overhaul program in place - Wabtec (30 Base cars were added and approved) Dealing with OEM - No bids received from others. Proceeding with PRF. In Progress - Buying kits from Vapor Stone to overhaul GB and motor in house. Unit upgrade - Fleet issues (Wabtec) to provide new unit proposal. Fifity cars have been Final Accepted. Submitted SS to Procurement - Testori In Progress
Signal package conversion (Gold to green) TWC Investigation / Calibration (Systra) Midlife Overhaul Specification HPT Upgrade ABI New Traction Motor Mount Friction Brake Kit Overhaul Ribbed Rubber Flooring PRF Door Operator Gearbox and Rollers Overhaul H-4 electronic units Vehicle Acceptance 3P Flip Up Seat Finger Guard Find alternative Vendor for Reverse Engineer PCB Boards P2550 Compressor Dessicant Material	A650 Overhaul Program	Knorr prototype on order - Due in October 2012 Status On-hold 90% complete. Base line established, TWC antenna jig designed and built, procedure written and worked though. Requires final document review and issue. Status Draft complete by Metro. In process of Consultant selection to complete. Wabtec Proposal received. NTP issued 08/08/12. One car set prototype in testing ABI for Fleet Modification in progress. A total of sventy seven (86) trucks were completed. Overhaul program in place - Wabtec (30 Base cars were added and approved) Dealing with OEM - No bids received from others. Proceeding with PRF. In Progress - Buying kits from Vapor Stone to overhaul GB and motor in house. Unit upgrade - Fleet issues (Wabtec) to provide new unit proposal. Status Fiffity cars have been Final Accepted. Submitted SS to Procurement - Testori In Progress
Signal package conversion (Gold to green) TWC Investigation / Calibration (Systra) Midlife Overhaul Specification HPT Upgrade ABI New Traction Motor Mount Friction Brake Kit Overhaul Ribbed Rubber Flooring PRF Door Operator Gearbox and Rollers Overhaul H-4 electronic units Vehicle Acceptance 3P Flip Up Seat Finger Guard Find alternative Vendor for Reverse Engineer PCB Boards P2550 Compressor Dessicant Material Rubber Boots (High Voltage)	A650 Overhaul Program	Knorr prototype on order - Due in October 2012 Status On-hold 90% complete. Base line established, TWC antenna jig designed and built, procedure written and worked though. Requires final document review and issue. Status Draft complete by Metro. In process of Consultant selection to complete. Wabtec Proposal received. NTP issued 08/08/12One car set prototype in testing ABI for Fleet Modification in progress. A total of sventy seven (86) trucks were completed. Overhaul program in place - Wabtec (30 Base cars were added and approved) Dealing with OEM - No bids received from others. Proceeding with PRF. In Progress - Buying kits from Vapor Stone to overhaul GB and motor in house. Unit upgrade - Fleet issues (Wabtec) to provide new unit proposal. Status Fifity cars have been Final Accepted. Submitted SS to Procurement - Testori In Progress In Progress In Progress - Vulcanite. Bought from OEM through A&E Telecom.
Signal package conversion (Gold to green) TWC Investigation / Calibration (Systra) Midlife Overhaul Specification HPT Upgrade ABI New Traction Motor Mount Friction Brake Kit Overhaul Ribbed Rubber Flooring PRF Door Operator Gearbox and Rollers Overhaul H-4 electronic units Vehicle Acceptance 3P Flip Up Seat Finger Guard Find alternative Vendor for Reverse Engineer PCB Boards P2550 Compressor Dessicant Material Rubber Boots (High Voltage) Cyclope light and Destination Sign Glass	A650 Overhaul Program	Knorr prototype on order - Due in October 2012 Status On-hold On-hold Status On-hold On-hold Status On-hold Status On-hold Status Draft complete. Base line established, TWC antenna jig designed and built, procedure written and worked though. Requires final document review and issue. Status Draft complete by Metro. In process of Consultant selection to complete. Wabtec Proposal received. NTP issued 08/08/12. One car set prototype in testing ABI for Fleet Modification in progress. A total of sventy seven (86) trucks were completed. Overhaul program in place - Wabtec (30 Base cars were added and approved) Dealing with OEM - No bids received from others. Proceeding with PRF. In Progress - Buying kits from Vapor Stone to overhaul GB and motor in house. Unit upgrade - Fleet issues (Wabtec) to provide new unit proposal. Status Fifity cars have been Final Accepted. Submitted SS to Procurement - Testori In Progress In Progress - Vulcanite. Bought from OEM through A&E Telecom. In Progress - Vulcanite. Bought from OEM through A&E Telecom.
Signal package conversion (Gold to green) TWC Investigation / Calibration (Systra) Midlife Overhaul Specification HPT Upgrade ABI New Traction Motor Mount Friction Brake Kit Overhaul Ribbed Rubber Flooring PRF Door Operator Gearbox and Rollers Overhaul H-4 electronic units Vehicle Acceptance 3P Flip Up Seat Finger Guard Find alternative Vendor for Reverse Engineer PCB Boards P2550 Compressor Dessicant Material Rubber Boots (High Voltage)	A650 Overhaul Program	Knorr prototype on order - Due in October 2012 Status On-hold 90% complete. Base line established, TWC antenna jig designed and built, procedure written and worked though. Requires final document review and issue. Status Draft complete by Metro. In process of Consultant selection to complete. Wabtec Proposal received. NTP issued 08/08/12 One car set prototype in testing ABI for Fleet Modification in progress. A total of sventy seven (86) trucks were completed. Overhaul program in place - Wabtec (30 Base cars were added and approved) Dealing with OEM - No bids received from others. Proceeding with PRF. In Progress - Buying kits from Vapor Stone to overhaul GB and motor in house. Unit upgrade - Fleet issues (Wabtec) to provide new unit proposal. Status Fifity cars have been Final Accepted. Submitted SS to Procurement - Testori In Progress In Progress In Progress - Vulcanite. Bought from OEM through A&E Telecom.
Signal package conversion (Gold to green) TWC Investigation / Calibration (Systra) Midlife Overhaul Specification HPT Upgrade ABI New Traction Motor Mount Friction Brake Kit Overhaul Ribbed Rubber Flooring PRF Door Operator Gearbox and Rollers Overhaul H-4 electronic units Vehicle Acceptance 3P Flip Up Seat Finger Guard Find alternative Vendor for Reverse Engineer PCB Boards P2550 Compressor Dessicant Material Rubber Boots (High Voltage) Cyclope light and Destination Sign Glass	A650 Overhaul Program P2550	Knorr prototype on order - Due in October 2012 Status On-hold 90% complete. Base line established, TWC antenna jig designed and built, procedure written and worked though. Requires final document review and issue. Status Draft complete by Metro. In process of Consultant selection to complete. Wabtec Proposal received. NTP issued 08/08/12. One car set prototype in testing ABI for Fleet Modification in progress. A total of sventy seven (86) trucks were completed. Overhaul program in place - Wabtec (30 Base cars were added and approved) Dealing with OEM - No bids received from others. Proceeding with PRF. In Progress - Buying kits from Vapor Stone to overhaul GB and motor in house. Unit upgrade - Fleet issues (Wabtec) to provide new unit proposal. Fifity cars have been Final Accepted. Submitted SS to Procurement - Testori In Progress In Progress In Progress - Valcanite. Bought from OEM through A&E Telecom. In Progress - NASG Awaiting ABI/Schunk final update.
Signal package conversion (Gold to green) TWC Investigation / Calibration (Systra) Midlife Overhaul Specification HPT Upgrade ABI New Traction Motor Mount Friction Brake Kit Overhaul Ribbed Rubber Flooring PRF Door Operator Gearbox and Rollers Overhaul H-4 electronic units Vehicle Acceptance 3P Flip Up Seat Finger Guard Find alternative Vendor for Reverse Engineer PCB Boards P2550 Compressor Dessicant Material Rubber Boots (High Voltage) Cyclope light and Destination Sign Glass Ground Brush Schunk (Lamellar Seal failure investigation)	A650 Overhaul Program	Knorr prototype on order - Due in October 2012 Status On-hold 90% complete. Base line established, TWC antenna jig designed and built, procedure written and worked though. Requires final document review and issue. Status Draft complete by Metro. In process of Consultant selection to complete. Wabtec Proposal received. NTP issued 08/08/12. One car set prototype in testing ABI for Fleet Modification in progress. A total of sventy seven (86) trucks were completed. Overhaul program in place - Wabtec (30 Base cars were added and approved) Dealing with OEM - No bids received from others. Proceeding with PRF. In Progress - Buying kits from Vapor Stone to overhaul GB and motor in house. Unit upgrade - Fleet issues (Wabtec) to provide new unit proposal. Status Fifity cars have been Final Accepted. Submitted SS to Procurement - Testori In Progress In Progress - Vulcanite. Bought from OEM through A&E Telecom. In Progress - NASG Awaiting ABI/Schunk final update.
Signal package conversion (Gold to green) TWC Investigation / Calibration (Systra) Midlife Overhaul Specification HPT Upgrade ABI New Traction Motor Mount Friction Brake Kit Overhaul Ribbed Rubber Flooring PRF Door Operator Gearbox and Rollers Overhaul H-4 electronic units Vehicle Acceptance 3P Flip Up Seat Finger Guard Find alternative Vendor for Reverse Engineer PCB Boards P2550 Compressor Dessicant Material Rubber Boots (High Voltage) Cyclope light and Destination Sign Glass Ground Brush Schunk (Lamellar Seal failure investigation) Readiness	A650 Overhaul Program P2550	Status On-hold On-hold On-hold On-hold On-hold On-hold On-hold Status On-hold On-hold Status On-hold On-hold On-hold On-hold Status Draft complete. Base line established, TWC antenna jig designed and built, procedure written and worked though. Requires final document review and issue. Status Draft complete by Metro. In process of Consultant selection to complete. Wabtec Proposal received. NTP issued 08/08/12. One car set prototype in testing ABI for Fleet Modification in progress. A total of sventy seven (86) trucks were completed. Overhaul program in place - Wabtec (30 Base cars were added and approved) Dealing with OEM - No bids received from others. Proceeding with PRF. In Progress - Buying kits from Vapor Stone to overhaul GB and motor in house. Unit upgrade - Fleet issues (Wabtec) to provide new unit proposal. Status Fifity cars have been Final Accepted. Submitted SS to Procurement - Testori In Progress In Progress In Progress - Vulcanite. Bought from OEM through A&E Telecom. In Progress - NASG Awaiting ABI/Schunk final update. Status Metro-RFS Engineering is supporting qualification and test activities of vehicles and wayside.
Signal package conversion (Gold to green) TWC Investigation / Calibration (Systra) Midlife Overhaul Specification HPT Upgrade ABI New Traction Motor Mount Friction Brake Kit Overhaul Ribbed Rubber Flooring PRF Door Operator Gearbox and Rollers Overhaul H-4 electronic units Vehicle Acceptance 3P Flip Up Seat Finger Guard Find alternative Vendor for Reverse Engineer PCB Boards P2550 Compressor Dessicant Material Rubber Boots (High Voltage) Cyclope light and Destination Sign Glass Ground Brush Schunk (Lamellar Seal failure investigation) Readiness ATP Certification	A650 Overhaul Program P2550	Status On-hold On-hold On-hold On-hold Status On-hold On-hold On-hold Status On-hold On-hold Status On-hold On-hold On-hold Status Draft complete. Base line established, TWC antenna jig designed and built, procedure written and worked though. Requires final document review and issue. Status Draft complete by Metro. In process of Consultant selection to complete. Wabtec Proposal received. NTP issued 08/08/12. One car set prototype in testing ABI for Fleet Modification in progress. A total of sventy seven (86) trucks were completed. Overhaul program in place - Wabtec (30 Base cars were added and approved) Dealing with OEM - No bids received from others. Proceeding with PRF. In Progress - Buying kits from Vapor Stone to overhaul GB and motor in house. Unit upgrade - Fleet issues (Wabtec) to provide new unit proposal. Status Fifity cars have been Final Accepted. Submitted SS to Procurement - Testori In Progress In Progress In Progress - Vulcanite. Bought from OEM through A&E Telecom. In Progress - NASG Awaiting ABI/Schunk final update. Status Metro-RFS Engineering is supporting qualification and test activities of vehicles and wayside. Mainline Testing Completed; waiting for final letter
Signal package conversion (Gold to green) TWC Investigation / Calibration (Systra) Midlife Overhaul Specification HPT Upgrade ABI New Traction Motor Mount Friction Brake Kit Overhaul Ribbed Rubber Flooring PRF Door Operator Gearbox and Rollers Overhaul H-4 electronic units Vehicle Acceptance 3P Flip Up Seat Finger Guard Find alternative Vendor for Reverse Engineer PCB Boards P2550 Compressor Dessicant Material Rubber Boots (High Voltage) Cyclope light and Destination Sign Glass Ground Brush Schunk (Lamellar Seal failure investigation) Readiness ATP Certification P2000 Couple/un-couple issues	A650 Overhaul Program P2550	Knorr prototype on order - Due in October 2012 Status On-hold 90% complete. Base line established, TWC antenna jig designed and built, procedure written and worked though. Requires final document review and issue. Status Draft complete by Metro. In process of Consultant selection to complete. Wabtec Proposal received. NTP issued 08/08/12 One car set prototype in testing ABI for Fleet Modification in progress. A total of sventy seven (86) trucks were completed. Overhaul program in place - Wabtec (30 Base cars were added and approved) Dealing with OEM - No bids received from others. Proceeding with PRF. In Progress - Buying kits from Vapor Stone to overhaul GB and motor in house. Unit upgrade - Fleet issues (Wabtec) to provide new unit proposal. Status Fifity cars have been Final Accepted. Submitted SS to Procurement - Testori In Progress In Progress In Progress In Progress - NASG Awaiting ABI/Schunk final update. Status Metro-RFS Engineering is supporting qualification and test activities of vehicles and wayside. Mainline Testing Completed; waiting for final letter Investigation completed - Test was scucceful - Fleet modification in process.
Signal package conversion (Gold to green) TWC Investigation / Calibration (Systra) Midlife Overhaul Specification HPT Upgrade ABI New Traction Motor Mount Friction Brake Kit Overhaul Ribbed Rubber Flooring PRF Door Operator Gearbox and Rollers Overhaul H-4 electronic units Vehicle Acceptance 3P Flip Up Seat Finger Guard Find alternative Vendor for Reverse Engineer PCB Boards P2550 Compressor Dessicant Material Rubber Boots (High Voltage) Cyclope light and Destination Sign Glass Ground Brush Schunk (Lamellar Seal failure investigation) Readiness ATP Certification P2000 Couple/un-couple issues Junction of Blue line and Expo line Testing	A650 Overhaul Program P2550	Status On-hold On-hold On-hold On-hold On-hold Status On-hold On-hold On-hold Status On-hold On-hold Status Draft complete. Base line established, TWC antenna jig designed and built, procedure written and worked though. Requires final document review and issue. Status Draft complete by Metro. In process of Consultant selection to complete. Wabtec Proposal received. NTP issued 08/08/12. One car set prototype in testing ABI for Fleet Modification in progress. A total of sventy seven (86) trucks were completed. Overhaul program in place - Wabtec (30 Base cars were added and approved) Dealing with OEM - No bids received from others. Proceeding with PRF. In Progress - Buying kits from Vapor Stone to overhaul GB and motor in house. Unit upgrade - Fleet issues (Wabtec) to provide new unit proposal. Status Fifity cars have been Final Accepted. Submitted SS to Procurement - Testori In Progress In Progress In Progress In Progress In Progress - NASG Awaiting ABI/Schunk final update. Status Metro-RFS Engineering is supporting qualification and test activities of vehicles and wayside. Mainline Testing Completed; waiting for final letter Investigation completed - Test was scucceful - Fleet modification in process. Safe Braking test completed.
Signal package conversion (Gold to green) TWC Investigation / Calibration (Systra) Midlife Overhaul Specification HPT Upgrade ABI New Traction Motor Mount Friction Brake Kit Overhaul Ribbed Rubber Flooring PRF Door Operator Gearbox and Rollers Overhaul H-4 electronic units Vehicle Acceptance 3P Flip Up Seat Finger Guard Find alternative Vendor for Reverse Engineer PCB Boards P2550 Compressor Dessicant Material Rubber Boots (High Voltage) Cyclope light and Destination Sign Glass Ground Brush Schunk (Lamellar Seal failure investigation) Readiness ATP Certification P2000 Couple/un-couple issues	A650 Overhaul Program P2550	Status
Signal package conversion (Gold to green) TWC Investigation / Calibration (Systra) Midlife Overhaul Specification HPT Upgrade ABI New Traction Motor Mount Friction Brake Kit Overhaul Ribbed Rubber Flooring PRF Door Operator Gearbox and Rollers Overhaul H-4 electronic units Vehicle Acceptance 3P Flip Up Seat Finger Guard Find alternative Vendor for Reverse Engineer PCB Boards P2550 Compressor Dessicant Material Rubber Boots (High Voltage) Cyclope light and Destination Sign Glass Ground Brush Schunk (Lamellar Seal failure investigation) Readiness ATP Certification P2000 Couple/un-couple issues Junction of Blue line and Expo line Testing	A650 Overhaul Program P2550	Status
Signal package conversion (Gold to green) TWC Investigation / Calibration (Systra) Midlife Overhaul Specification HPT Upgrade ABI New Traction Motor Mount Friction Brake Kit Overhaul Ribbed Rubber Flooring PRF Door Operator Gearbox and Rollers Overhaul H-4 electronic units Vehicle Acceptance 3P Flip Up Seat Finger Guard Find alternative Vendor for Reverse Engineer PCB Boards P2550 Compressor Dessicant Material Rubber Boots (High Voltage) Cyclope light and Destination Sign Glass Ground Brush Schunk (Lamellar Seal failure investigation) Readiness ATP Certification P2000 Couple/un-couple issues Junction of Blue line and Expo line Testing Junction of Blue line and Expo line Testing Junction of Blue line and Expo line Testing	A650 Overhaul Program P2550	Status
Signal package conversion (Gold to green) TWC Investigation / Calibration (Systra) Midlife Overhaul Specification HPT Upgrade ABI New Traction Motor Mount Friction Brake Kit Overhaul Ribbed Rubber Flooring PRF Door Operator Gearbox and Rollers Overhaul H-4 electronic units Vehicle Acceptance 3P Flip Up Seat Finger Guard Find alternative Vendor for Reverse Engineer PCB Boards P2550 Compressor Dessicant Material Rubber Boots (High Voltage) Cyclope light and Destination Sign Glass Ground Brush Schunk (Lamellar Seal failure investigation) Readiness ATP Certification P2000 Couple/un-couple issues Junction of Blue line and Expo line Testing Junction of Blue line and Expo line Testing - ATP Expo Frog Testing	A650 Overhaul Program P2550	Status
Signal package conversion (Gold to green) TWC Investigation / Calibration (Systra) Midlife Overhaul Specification HPT Upgrade ABI New Traction Motor Mount Friction Brake Kit Overhaul Ribbed Rubber Flooring PRF Door Operator Gearbox and Rollers Overhaul H-4 electronic units Vehicle Acceptance 3P Flip Up Seat Finger Guard Find alternative Vendor for Reverse Engineer PCB Boards P2550 Compressor Dessicant Material Rubber Boots (High Voltage) Cyclope light and Destination Sign Glass Ground Brush Schunk (Lamellar Seal failure investigation) Readiness ATP Certification P2000 Couple/un-couple issues Junction of Blue line and Expo line Testing Junction of Blue line and Expo line Testing Junction of Blue line and Expo line Testing	A650 Overhaul Program P2550	Knorr prototype on order - Due in October 2012 Status On-hold 90% complete. Base line established, TWC antenna jig designed and built, procedure written and worked though. Requires final document review and issue. Status Draft complete by Metro. In process of Consultant selection to complete. Wabtec Proposal received. NTP issued 08/08/12. One car set prototype in testing ABI for Fleet Modification in progress. A total of sventy seven (86) trucks were completed. Overhaul program in place - Wabtec (30 Base cars were added and approved) Dealing with OEM - No bids received from others. Proceeding with PRF. In Progress - Buying kits from Vapor Stone to overhaul GB and motor in house. Unit upgrade - Fleet issues (Wabtec) to provide new unit proposal. Status Fifity cars have been Final Accepted. Submitted SS to Procurement - Testori In Progress In Progress In Progress - NASG Awaiting ABI/Schunk final update. Status Metro-RFS Engineering is supporting qualification and test activities of vehicles and wayside. Mainline Testing Completed; waiting for final letter Investigation completed - Test was scucceful - Fleet modification in process. Safe Braking test completed at Culver City Station and report of successful test completed. Recent testing (07/26/12) indicated signal track problem at Culver City. Wayside are recertify track circuits. Further testing will be undertaken when completebetween RFS engineering and Wayside signalling.



Metro

P2550 Vehicle Acceptance Program September 2012

Vehicle Status Update:

Metro has received all 50 cars. Final acceptance of cars 701 and 702 on September 26, 2012.

Engineering Activities Update:

- Event recorder: Configuration continues to be finalized. Latest software revision being installed for final qualification. To date, 10 cars completed.
- ATP/TWC Configuration: Final software was tested in August. Three items were identified as requiring resolution. A-STS to test software/wiring remedies scheduled for the first week of October 2012.

Project Management:

- Contract spares continue to be delivered to Metro and estimated to be 90% complete. All parts needed for day-to-day maintenance have been received. Critical parts needed for heavy repairs are beginning to arrive.
- Daily and bi-weekly meetings are scheduled with contractor management to address project issues.



QA-Warranty Program Projects Summary September 2012

QA-WARRANTY ACTIVITIES

- Accepted P2550 50th and final vehicle on 9/20/12.
- A650 Base Buy & Option Car Fleet Warranty Truck Frame Mod Campaign (52 of 220 Trucks modified to date).
- On-Going, Management's Special Interest Articulation / Cab Wiring Tightness Checks MBL & MGL P2000 Fleet Cars (31 of 52 completed). On 9/25/12, management decision issued to suspend Wire Tightness Inspections for the remainder of the 2000 fleet.
- On-Going, Management's Special Interest 7.5K Supplemental Inspections & Articulation MBL & MGL P2000 Fleet Cars (38 of 52 completed).
- QA PMI Audits, Spot Checks & Surprise/Unannounced Audits performed (8).
- FAI's or equipment inspection/failure investigations (18).
- Parts inspected New, R&R or Warranty Returns (1,807), Parts rejected (154 of 1,807)
- Administration/ERS documentation processed (3,000 plus).
- QA oversight, MBL & MGL Fleets, (25 of 92 LRV's)Truck Inspections, Journal Bearing Housing Inspections, Damper Inspections, Wheel Back-to-Back Measurements, Wheel Flange Measurements, Wheel Residual Mount Inspections.
- On-Going Warranty-QA interest oversight & tracking: Overhauls / Mod Programs,
 (A650/P2000/P2020/865/P2550) Propulsion System, Master Controllers, Capacitor Banks,
 Air Compressors, Aux Power, Couplers, Gearboxes, Articulation Diaphragms, Friction
 Brakes, HPT's, Brake Resistor Grids, T/M's, MA's, HVAC, Doors, A/C Motors –
 (Blowers & Evaporators).



RFS Instruction Department Activities September 2012

Training classes completed during the mo	onth of Ser	otember 2	<u> 2012</u>			_	_				_			
	Course	Student	Training			<u>Co</u>	re I	rai	nın	ıg	Co	mp	let	<u>ea</u>
Description	Hours	Count	Hours	- 100.0% т										
				- 100.0 %					×		-	+		
Blue & Expo Line Training - (P865/2020 & P2000 LRV):				90.0% -	×	X		Ж	Ж	Ж	*	Ж	ж_	
RFS 2-WEEK RAIL INTRODUCTION	80	1	80		*	*								* *
RFS SIEMENS 2000 PROPULSION	80	12	960	80.0% -					-		-		-	
Total Blue Lin	e Training	(Hours):	1,040	70.0% -									1	
Red Line Training (Breda A650 HRV):				60.0%										
RFS 2-WEEK RAIL INTRODUCTION	80	3	240	***************************************										
RFS SIMMONS WHEEL TRUE REFRESHER	4	12	48	50.0% -										
Total Red Lin	e Training	(Hours):	240	40.0%						_	_		<u> </u>	
					_	1	<u></u>				_	_		
Total RFS Instruction for the month of Septe	mhar 2012	(Houre):	1,280	30.0%										
Total IXI 3 instruction for the month of Septe	IIIDEI ZUIZ	(Hours).	1,200	20.0%										
Other Instruction Activities														
P2550 HRMM manual review			80	10.0% -										
RFS SIEMENS 2000 VEHICLE COURSE preparations			120											
				0.0% +	÷	÷ ;	- 2	- 2	-12	-12	12	42	-12	÷ + 5
Total Other Instruction Activities	<u>es</u>		<u>200.0</u>		Oct-11	Nov-11	Jan-12	Feb-12	Mar-12	Apr-12	May-12	Jun-12	Jul-12	Aug-12 Sep-12
Core Vehicle Training Complete	d: BLUE	RED	GREEN	GOLD										
<u> </u>								RedLin	e (Bred	la A650))			
Percentage of core vehicle training complet		90.2%	83.8%	86.9%				Blue Lir	ne (Nipp	on Shar	ryo P865	5/2020)		
Siemens P2000 training comple	te: 42.3%	N/A	N/A	N/A				Blue Lir	ne (Siem	nens P2	000)			
Average Specialist Rail Experience Level in Years: 10.5 10.0			8.8 9.8					Green I	Line (Sie	emens F	2000)			
Average openians: Nan Experience Lever in Yea	13. 10.0	10.0	0.0	3.0			—ж—	Gold Li	ne (Ansa	aldoBre	da P255	0)		
Metro				Vai	riatio	ns caus					yee tr	ansfe	rs,	Page
							& traii	ning (compl	eted				. ag