



Rail Fleet Services Monthly Report March 2012

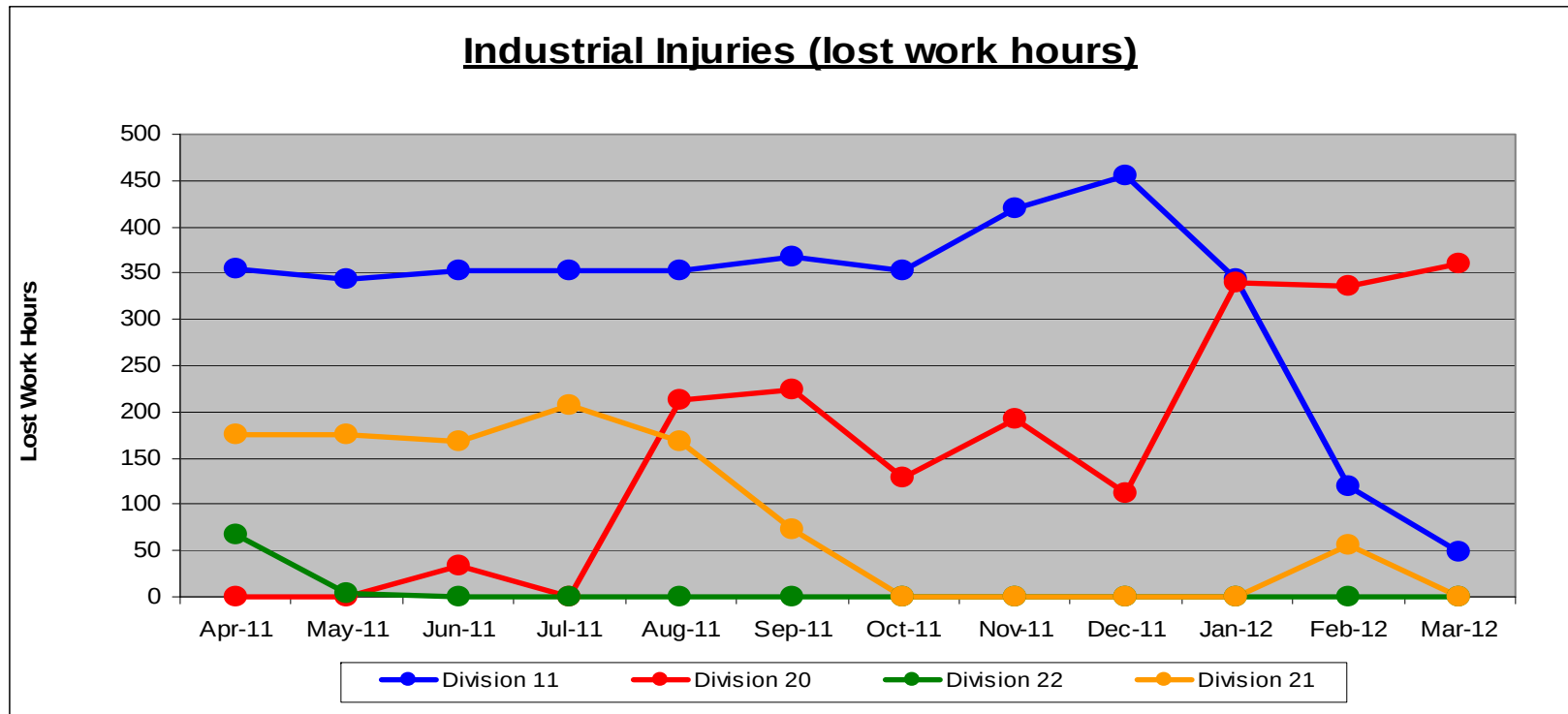


Metro

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Industrial Injuries – Lost Work Hours March 2012



	Apr-11	May-11	Jun-11	Jul-11	Aug-11	Sep-11	Oct-11	Nov-11	Dec-11	Jan-12	Feb-12	Mar-12	Year to Date
Division 11	354	344	352	352	352	368	352	420	456	344	120	49	3,863
Division 20	0	0	34	0	213	224	128	192	112	340	336	360	1,939
Division 22	68	3	0	0	0	0	0	0	0	0	0	0	71
Division 21	176	176	168	208	168	72	0	0	0	0	56	0	1,024
Totals	598	523	554	560	733	664	480	612	568	684	512	409	6,897

Rail Vehicle Accidents & Major Incidents

March 2012

Repair Costs	Apr-11	May-11	Jun-11	Jul-11	Aug-11	Sep-11	Oct-11	Nov-11	Dec-11	Jan-12	Feb-12	Mar-12	Totals
Blue/Expo Line	\$26,990	\$4,844	\$189	\$0	\$395	\$7,337	\$888	\$16,188	\$1,199	\$4,704	\$5,087	\$18,570	\$86,391
Red/Purple Line	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Green Line	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Gold Line	\$0	\$0	\$5,458	\$3,763	\$2,567	\$0	\$320	\$0	\$0	\$0	\$0	\$4,134	\$16,242
Totals	\$26,990	\$4,844	\$5,647	\$3,763	\$2,962	\$7,337	\$1,208	\$16,188	\$1,199	\$4,704	\$5,087	\$22,704	\$102,633

Rail Vehicle Accident Costs - March 2012				
Metro Blue Main Line				
Date	Incident #	Problem code	Incident Description	Cost
3/9/2012	2151446	Train vs. Pedestrian	A 10-72 was reported southbound at San Pedro pedestrian crossing with Train No. 4.	\$850.00
3/9/2012	2151567	Train vs. Pedestrian	Train No. 11 was involved in a 10-72 southbound at Elm Street grade crossing.	\$3,090.00
3/13/2012	2152635	Train vs. Object	Train No. 10 was involved in an accident with damage to train's front left skirt at 103rd Street Station.	\$0.00
3/17/2012	2154428	Train vs. Vehicle	Train No. 94 was involved in a 10-72 at Flower and Venice Street intersection.	\$0.00
3/20/2012	2155935	Train vs. Pedestrian	A train versus pedestrian occurred at 92nd grade crossing southbound on Track No. 2.	\$1,115.00
3/22/2012	2157189	Derailment	Train No. 292 involved in a 10-75 southbound at arrival track to the service inspection area (3).	\$0.00
3/27/2012	2158524	Train vs. Vehicle	Train No. 21 was involved in an accident with a vehicle on Track No. 1 northbound at Washington and Los Angeles.	\$9,314.00
3/22/2012	2157154	Derailment	Train No. 292 derailed at the southbound arrival track to the service inspection area (3). Same incident as 2157189 however the difference is that Car 148B was the lead car involved in the derailment.	\$0.00
				14,369.00
Expo Line				
3/3/2012	2148183	Train vs. Vehicle	Train No. 96 operator reported at 10-73 at Crenshaw Boulevard on Track No. 3.	\$4,201.00
				\$4,201.00
Metro Gold Line				
3/23/2012	2157317	Train vs. Vehicle	Train vs. Auto at Pico/Aliso grade crossing.	\$4,134.00
				\$4,134.00
				GRAND TOTAL \$22,704.00
(10-71) = Train vs. Object, (10-72) = Train vs. Pedestrian, (10-73) = Train vs. Vehicle (10-74) = Train vs. MTA Vehicle, (10-75) = Derailment				

Service Delivery March 2012

Blue/Expo Line – Fleet Size 90 cars

	<u>Vehicles</u>	<u>Average</u>	<u>% Up</u>
<u>Pull Out</u>	<u>Required</u>	<u>Available</u>	<u>(Down)</u>
Weekday:	75	77	102%
Weekend:	54	57	106%

Late Pullouts: 2 *

Monthly Mileage: 534,306 miles

Red/Purple Line - Fleet Size 104 cars

	<u>Vehicles</u>	<u>Average</u>	<u>% Up</u>
<u>Pull Out</u>	<u>Required</u>	<u>Available</u>	<u>(Down)</u>
Weekday:	71	82	116%
Weekend:	54	71	132%

Late Pullouts: 0 *

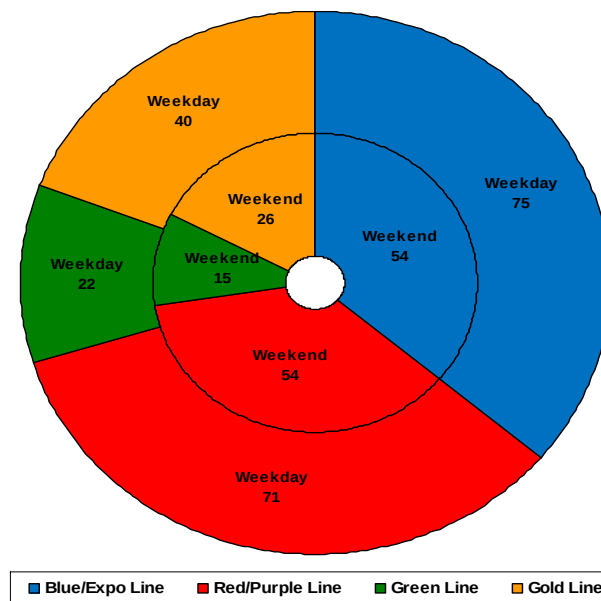
Monthly Mileage: 600,360 miles

Green Line – Fleet Size 29 cars

	<u>Vehicles</u>	<u>Average</u>	<u>% Up</u>
<u>Pull Out</u>	<u>Required</u>	<u>Available</u>	<u>(Down)</u>
Weekday:	22	24	110%
Weekend:	15	17	114%

Late Pullouts: 0 *

Monthly Mileage: 235,196 miles



Gold Line – Fleet Size 50 cars

P2550 – Fleet Size 48 cars

P2000 – Fleet Size 2 cars

	<u>Vehicles</u>	<u>Average</u>	<u>% Up</u>
<u>Pull Out</u>	<u>Required</u>	<u>Available</u>	<u>(Down)</u>
Weekday:	40	42	105%
Weekend:	26	40	153%

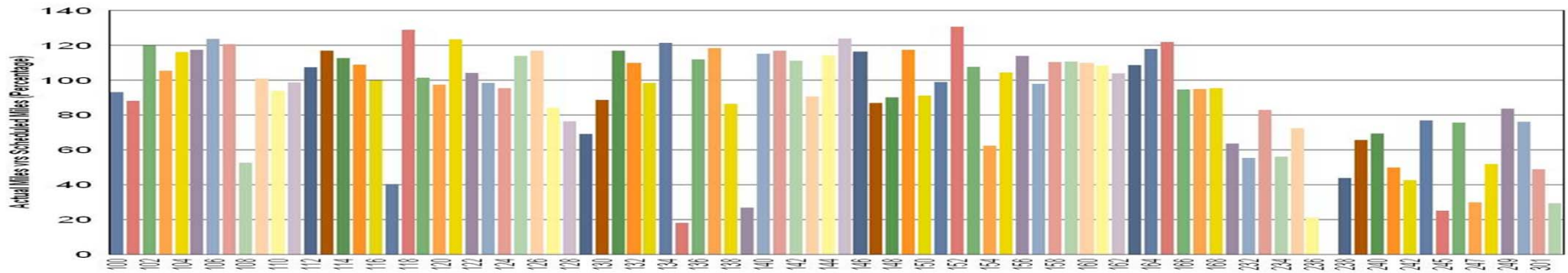
Late Pullouts: 0 *

Monthly Mileage: 282,234 miles

* Due to a vehicle related problem

Vehicle Utilization March 2012

Metro Blue/Expo Line Fleet



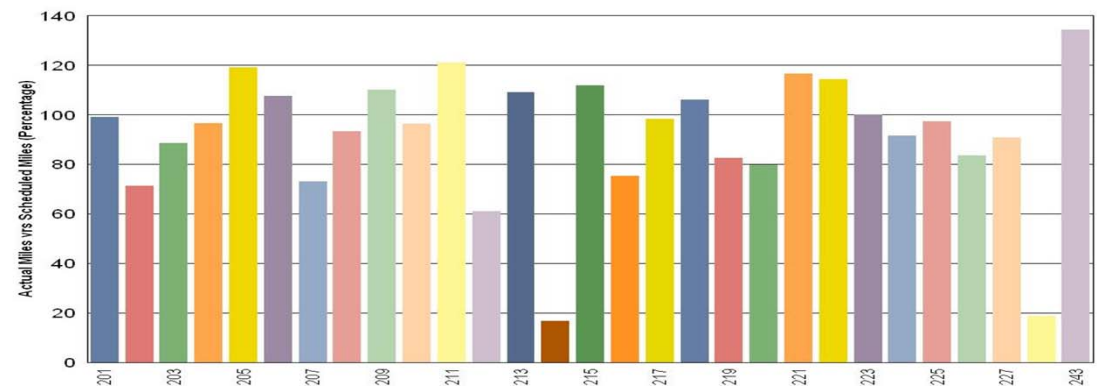
Blue/Expo Line:

- 135 Vehicle in paint and body shop and held as a show car for a media event.
- 139 Vehicle out of service due to major flats and trucks being swapped out.
- 236-237 Vehicles used as training car for students learning how to rescue P2000's on the main line.
- 245 Vehicle out of service for flats and propulsion faults.
- 247 Vehicle out of service due to reoccurring propulsion faults.
- 302 Vehicle involved in a 10-73 (Train vs. Auto) and held for accident repair.

Green Line:

- 214 Vehicle out of service due to ATP problem.
- 228 Vehicle out of service due to a propulsion problem.

Metro Green Line



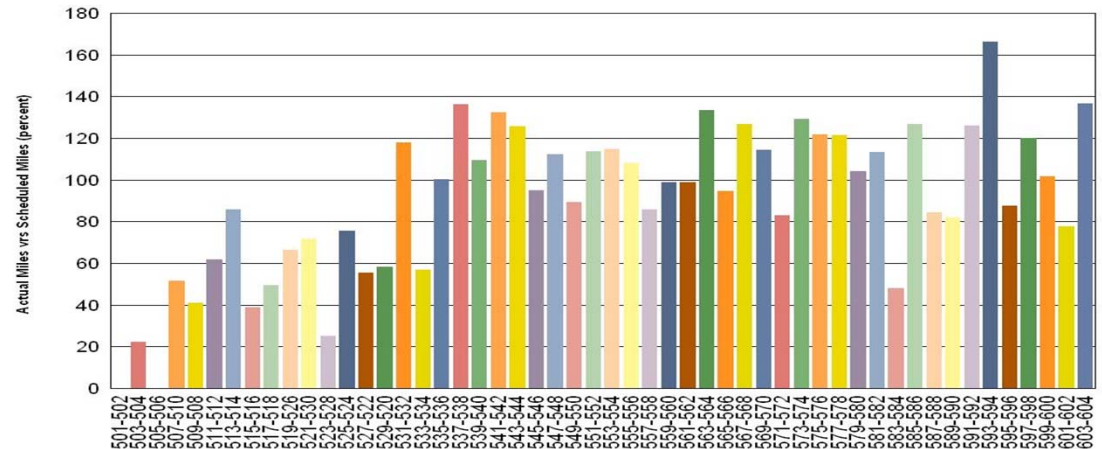
Vehicle Utilization

March 2012

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

- 501-502 Vehicle out of service due to a high voltage cable rubbing through insulation. Cable crimping completed but vehicle requires final QA and Engineering approval before being released back to revenue service.
- 503-504 Vehicle had ATP problem and was out of service for 7 days due to ATP failure investigation. Vehicle also had friction brake and HVAC overhaul issues.
- 505-506 Vehicle out of service due to open work orders and refurbishment.
- 523-528 Vehicle is a repeater for propulsion failures for the month of March.

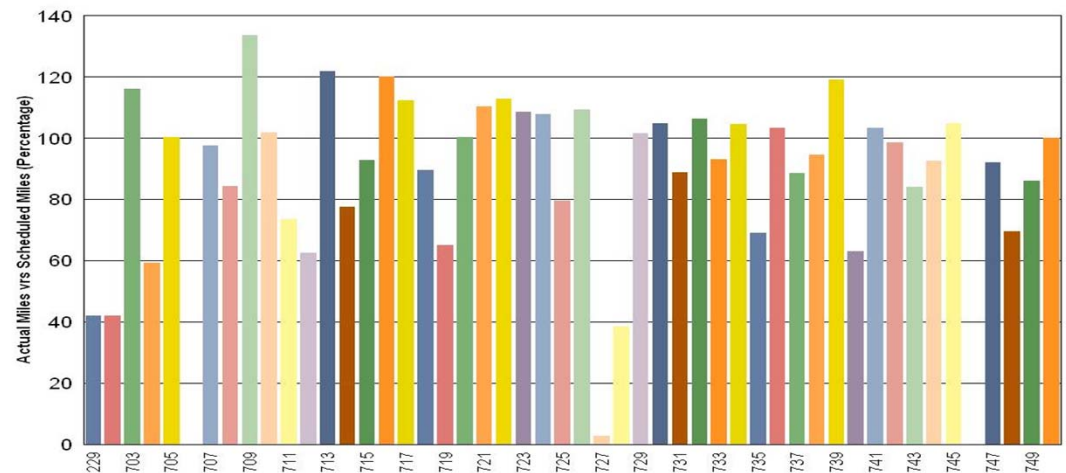
Metro Red/Purple Line



Gold Line:

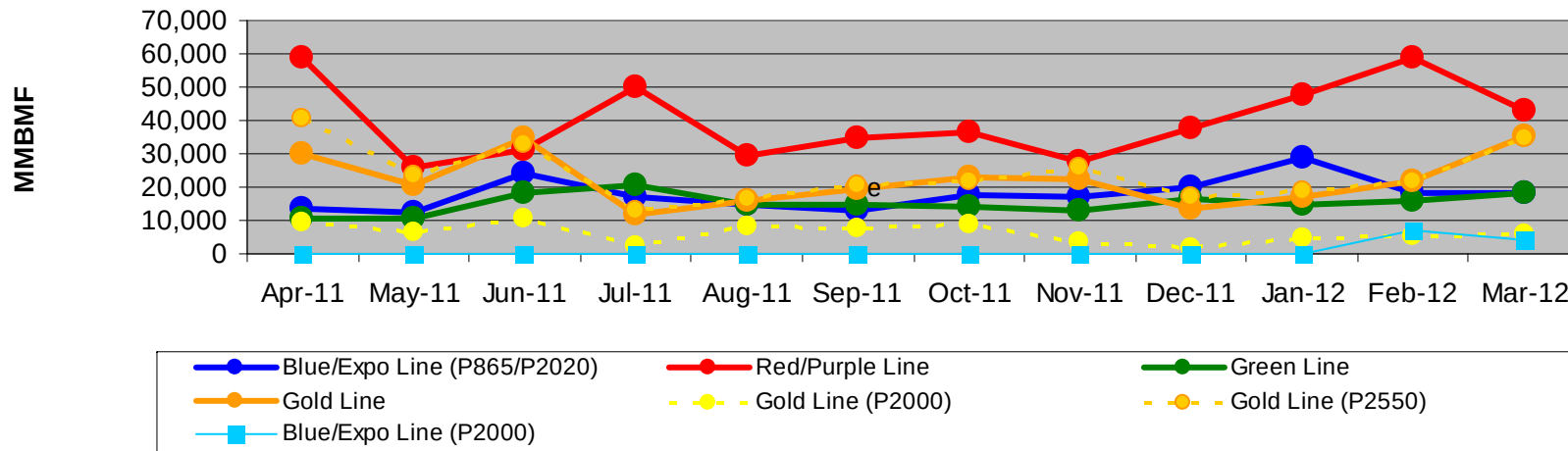
- 706 Vehicle remains out of service and is awaiting parts delivery for repairs and inspection.
- 727 Vehicle out of service due to parts delivery and needs repair due to an open work order.
- 728 Vehicle out of service due to repairs and inspection with ATP failures and open work orders.
- 746 Vehicle remains out of service and is awaiting parts delivery for repairs and inspection.

Metro Gold Line



Mean Miles Between Failures (Major) Year to Date

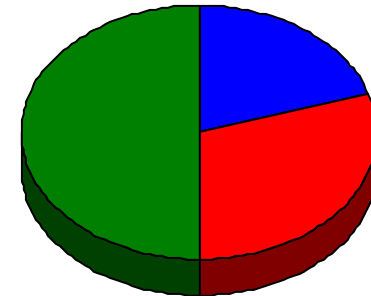
Mean Miles Between Major Failures (12 months)



	Apr-11	May-11	Jun-11	Jul-11	Aug-11	Sep-11	Oct-11	Nov-11	Dec-11	Jan-12	Feb-12	Mar-12
Blue/Expo Line (P865/P2020)	13,483	12,557	24,050	17,123	14,425	12,679	17,397	17,322	20,187	28,614	18,322	18,354
Blue/Expo Line (P2000)	0	0	0	0	0	0	0	0	0	0	7,210	4,192
Red/Purple Line	59,089	26,084	30,932	50,099	29,298	34,535	36,745	27,358	37,551	47,660	58,828	42,883
Green Line	10,787	10,882	18,177	20,877	14,482	14,740	14,148	13,029	16,379	14,448	15,895	18,092
Gold Line	30,145	20,776	34,792	11,668	15,906	19,647	22,773	22,340	13,743	17,298	21,981	35,279
Gold Line (P2000)	9,625	6,377	10,351	2,153	8,019	7,872	8,887	3,509	1,639	4,638	5,215	5,907
Gold Line (P2550)	40,404	23,394	32,767	13,095	16,370	20,553	22,032	26,107	16,769	18,986	21,546	34,541

Repeat Failures March 2012

Metro Blue Line: 2 Repeat Failures
 Expo Line: 0 Repeat Failures
 Metro Red Line: 3 Repeat Failures
 Metro Green Line: 5 Repeat Failures
 Metro Gold Line: 0 Repeat Failures

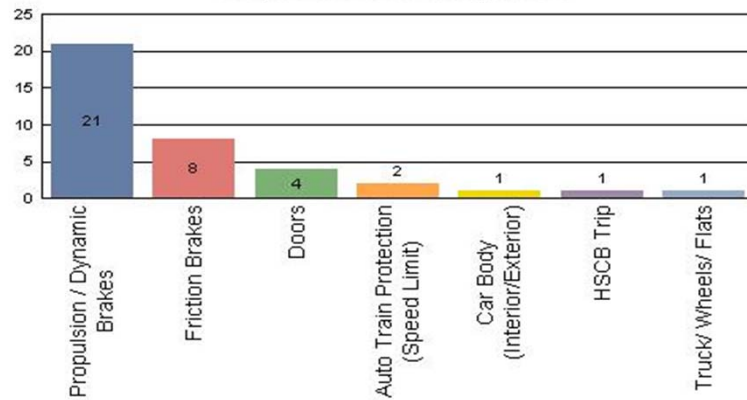


Repeater Car Details - March 2012										
System	Blue Line		Expo Line		Red Line		Green Line		Gold Line	
	Car #	Repeats	Car #	Repeats	Car #	Repeats	Car #	Repeats	Car #	Repeats
ATO					571	1				
Propulsion/Dynamic Brake	248	1			523	1	215	1		
							226	1		
							228	1		
Radio	138	1			537	1	216	2		
TOTALS	2		0		3		5		0	

Major Incidents March 2012

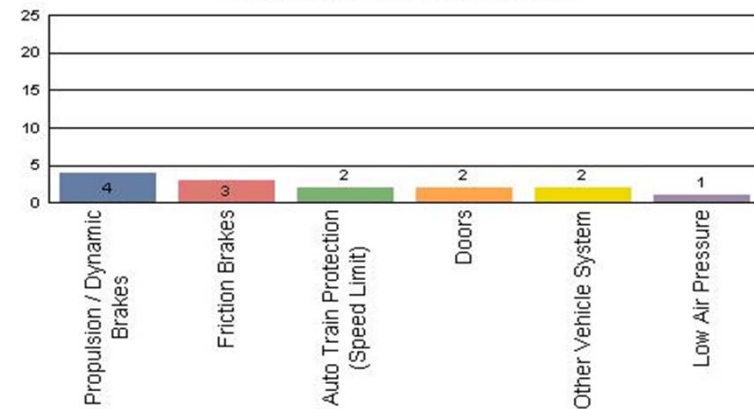
Metro Blue Line

Top Incident Categories



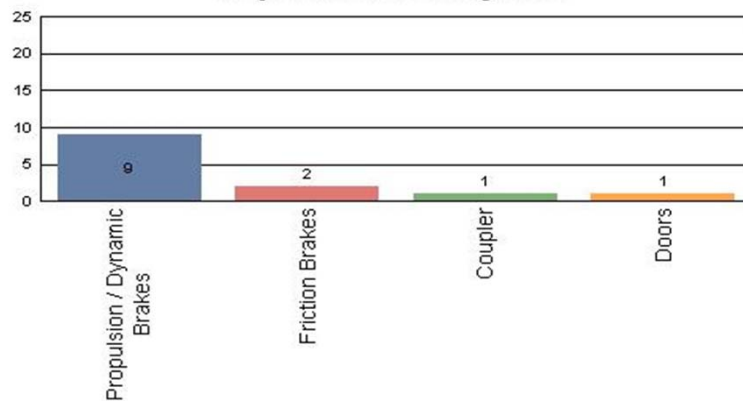
Metro Red/Purple Line

Top Incident Categories



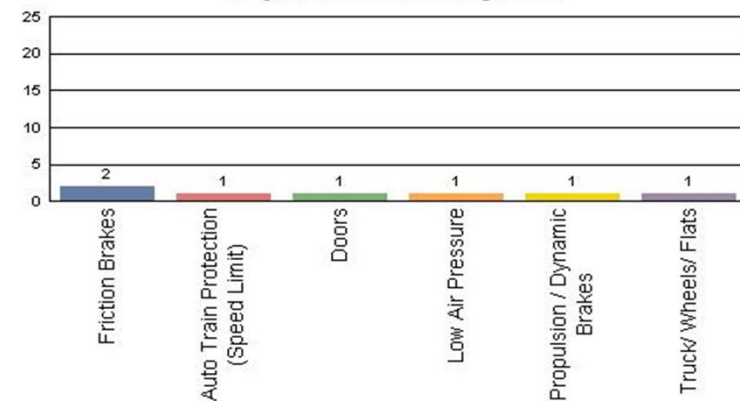
Metro Green Line

Top Incident Categories



Metro Gold Line

Top Incident Categories



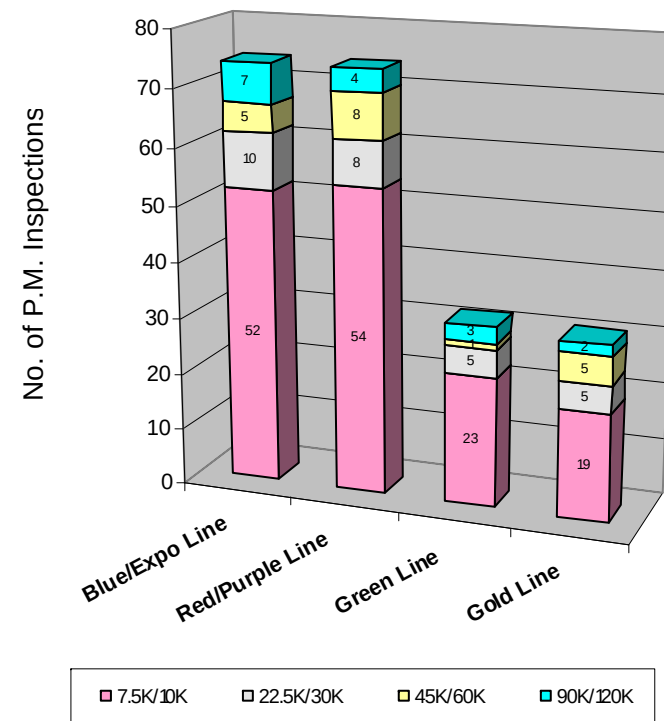
Preventive Maintenance Compliance

March 2012

PM Compliance	Apr-11	May-11	Jun-11	Jul-11	Aug-11	Sep-11	Oct-11	Nov-11	Dec-11	Jan-12	Feb-12	Mar-12
Blue/Expo Line	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
Red/Purple Line	100%	90%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
Green Line	100%	100%	100%	100%	100%	100%	100%	100%	96%	100%	100%	100%
Gold Line	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%

March 2012 Preventive Maintenance Inspections

No. of P.M. Inspections	7.5K/10K	22.5K/30K	45K/60K	90K/120K	Totals
Blue/Expo Line	52	10	5	7	74
Red/Purple Line	54	8	8	4	74
Green Line	23	5	1	3	32
Gold Line	19	5	5	2	31
Totals:	148	28	19	16	211

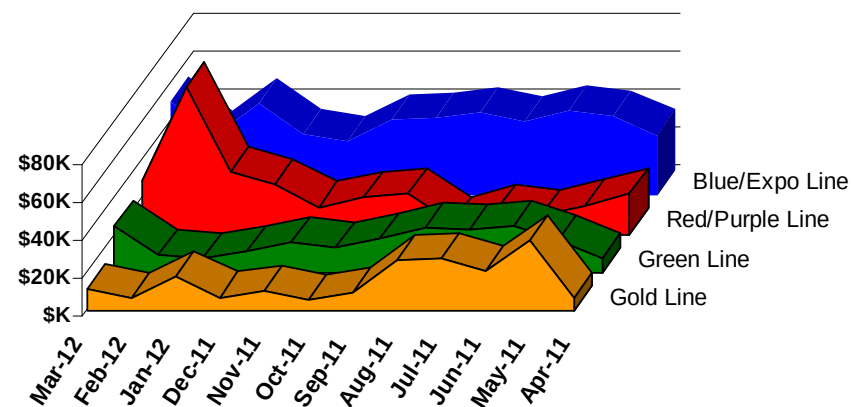


Vandalism & Graffiti Report

March 2012

	Apr-11	May-11	Jun-11	Jul-11	Aug-11	Sep-11	Oct-11	Nov-11	Dec-11	Jan-12	Feb-12	Mar-12	Year-to-Date
Blue/Expo Line	\$32K	\$42K	\$45K	\$39K	\$44K	\$41K	\$41K	\$29K	\$33K	\$49K	\$32K	\$49K	\$476K
Red/Purple Line	\$22K	\$15K	\$10K	\$13K	\$6K	\$21K	\$20K	\$14K	\$26K	\$33K	\$77K	\$28K	\$286K
Green Line	\$8K	\$16K	\$24K	\$22K	\$23K	\$17K	\$13K	\$15K	\$11K	\$8K	\$9K	\$25K	\$192K
Gold Line	\$7K	\$37K	\$21K	\$28K	\$26K	\$9K	\$5K	\$10K	\$7K	\$18K	\$7K	\$11K	\$186K
Totals:	\$68K	\$111K	\$100K	\$102K	\$99K	\$89K	\$78K	\$69K	\$77K	\$107K	\$125K	\$114K	\$1,139K

March 2012 Vandalism & Graffiti - All Rail				
	Qty	Labor	Materials	Totals
Windows replaced	64	\$8,253	\$17,042	\$25,295
Vandal Shields	788	\$23,153	\$6,964	\$30,117
Seats Cleaned	914	\$2,445	\$0	\$2,445
Seats Replaced	254	\$8,002	\$5,592	\$13,594
Graffiti removal - other	859	\$20,880	\$450	\$21,330
Repainting panels	4	\$19,832	\$1,452	\$21,284
Totals	2,883	\$82,565	\$31,500	\$114,065



Graffiti Pictures March 2012

Blue Line



Green Line



Gold Line

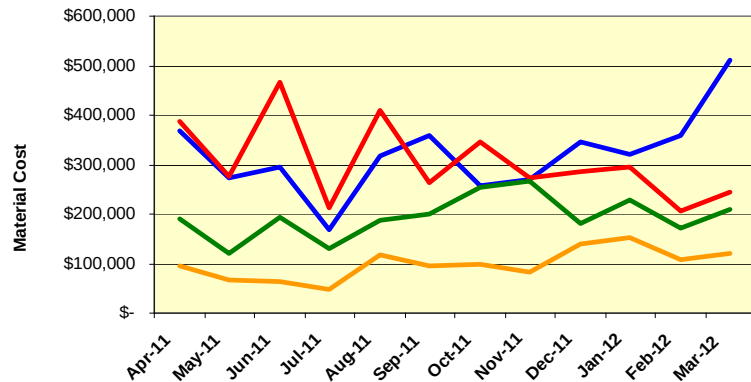


Material and Labor Costs

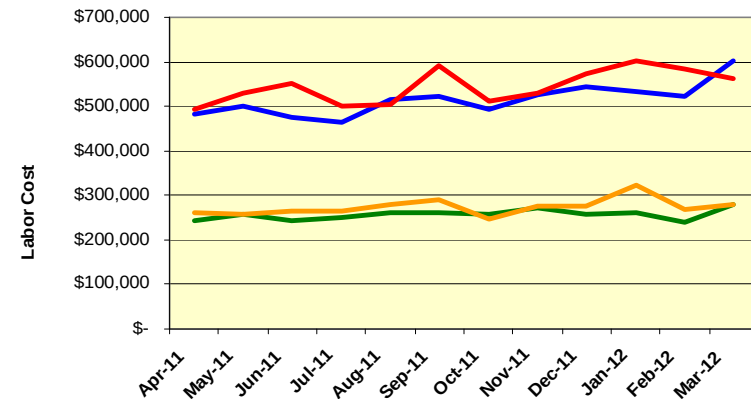
March 2012

<u>MATERIALS</u>	Apr-11	May-11	Jun-11	Jul-11	Aug-11	Sep-11	Oct-11	Nov-11	Dec-11	Jan-12	Feb-12	Mar-12
Blue/Expo Line	\$ 368,467	\$ 272,272	\$ 294,179	\$ 167,328	\$ 318,296	\$ 359,508	\$ 256,152	\$ 268,760	\$ 346,891	\$ 322,169	\$ 359,911	\$ 510,512
Red/Purple Line	\$ 386,455	\$ 277,113	\$ 466,346	\$ 212,074	\$ 410,299	\$ 263,808	\$ 344,563	\$ 272,291	\$ 285,916	\$ 296,353	\$ 205,225	\$ 244,902
Green Line	\$ 189,460	\$ 121,859	\$ 194,750	\$ 129,976	\$ 187,997	\$ 198,811	\$ 254,691	\$ 265,489	\$ 180,929	\$ 227,110	\$ 172,152	\$ 210,220
Gold Line	\$ 96,824	\$ 67,967	\$ 64,397	\$ 47,760	\$ 118,401	\$ 94,967	\$ 98,380	\$ 83,425	\$ 138,599	\$ 150,971	\$ 106,736	\$ 121,821
Totals	\$ 1,041,206	\$ 739,212	\$ 1,019,672	\$ 557,138	\$ 1,034,993	\$ 917,095	\$ 953,786	\$ 889,965	\$ 952,335	\$ 996,603	\$ 844,024	\$ 1,087,455

Material Costs



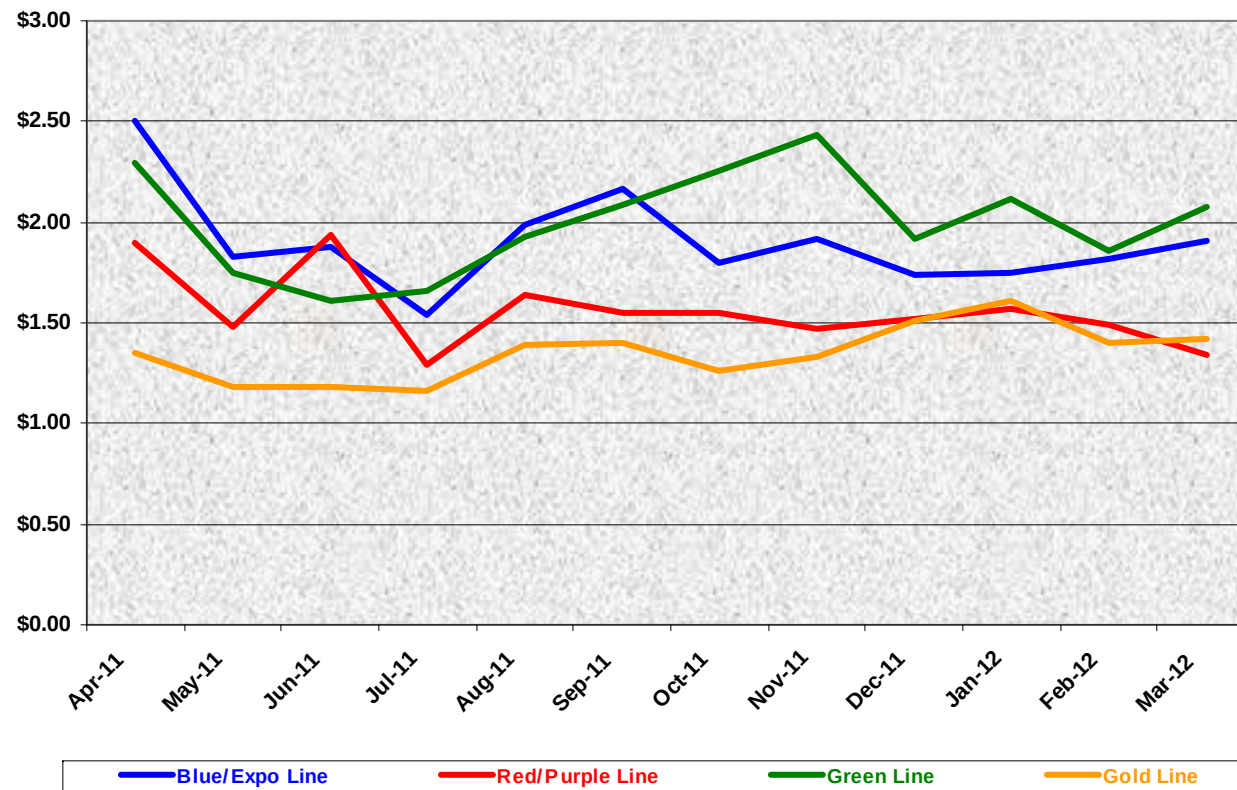
Labor Costs



<u>LABOR</u>	Apr-11	May-11	Jun-11	Jul-11	Aug-11	Sep-11	Oct-11	Nov-11	Dec-11	Jan-12	Feb-12	Mar-12
Blue/Expo Line	\$ 480,658	\$ 500,263	\$ 475,354	\$ 464,468	\$ 513,406	\$ 520,526	\$ 493,739	\$ 526,600	\$ 544,564	\$ 534,797	\$ 522,603	\$ 601,905
Red/Purple Line	\$ 493,104	\$ 531,171	\$ 550,464	\$ 500,504	\$ 504,785	\$ 589,986	\$ 510,944	\$ 530,408	\$ 571,885	\$ 602,770	\$ 584,940	\$ 562,875
Green Line	\$ 244,809	\$ 257,678	\$ 243,969	\$ 250,617	\$ 259,629	\$ 261,796	\$ 256,610	\$ 272,603	\$ 259,198	\$ 262,563	\$ 241,042	\$ 278,653
Gold Line	\$ 259,784	\$ 257,114	\$ 264,854	\$ 265,256	\$ 280,715	\$ 289,048	\$ 246,890	\$ 274,017	\$ 276,926	\$ 321,152	\$ 267,372	\$ 277,944
Totals	\$1,478,355	\$1,546,225	\$1,534,641	\$1,480,845	\$1,558,535	\$1,661,357	\$1,508,183	\$1,603,628	\$1,652,573	\$1,721,282	\$1,615,957	\$1,721,377

Cost Per Mile March 2012

Cost per mile:	Apr-11	May-11	Jun-11	Jul-11	Aug-11	Sep-11	Oct-11	Nov-11	Dec-11	Jan-12	Feb-12	Mar-12	Average
Blue/Expo Line	\$2.50	\$1.83	\$1.88	\$1.54	\$1.99	\$2.17	\$1.80	\$1.91	\$1.77	\$1.76	\$1.84	\$2.08	\$1.92
Red/Purple Line	\$1.90	\$1.48	\$1.93	\$1.29	\$1.64	\$1.55	\$1.55	\$1.47	\$1.52	\$1.57	\$1.49	\$1.35	\$1.56
Green Line	\$2.30	\$1.74	\$1.61	\$1.66	\$1.93	\$2.08	\$2.26	\$2.43	\$1.92	\$2.12	\$1.86	\$2.08	\$2.00
Gold Line	\$1.35	\$1.18	\$1.18	\$1.17	\$1.39	\$1.40	\$1.26	\$1.33	\$1.51	\$1.61	\$1.40	\$1.42	\$1.35



No facility costs are included

Absences vs. Overtime

March 2012

ABSENCE TYPE and HOURS	3940 Admin.	3941 Blue	3942 Red	3943 Green	3944 Gold	3947 Expo	Total
AWP-ABSENT W/O PERMISSION	0.00	9.40	0.00	0.00	8.00	0.00	17.40
BER-BEREAVEMENT	0.00	24.00	0.00	0.00	40.00	0.00	64.00
CTO-COMPENSATORY TIME OFF	0.00	435.50	467.92	83.98	120.00	0.00	1,107.40
CUT-EMPLOYEE LEAVES EARLY	0.00	1.33	0.48	0.00	0.52	0.00	2.33
CVA - CASUAL VACATION	0.00	44.00	492.00	112.00	112.00	0.00	760.00
DSL-DISABILITY LEAVE/LONG	0.00	728.00	536.00	0.00	344.00	0.00	1,608.00
EFH-EMG. FLOAT HOL.	0.00	0.00	8.00	16.00	8.00	0.00	32.00
ETO-EXCUSED TIME OFF	42.50	67.63	13.85	3.00	36.00	2.00	164.98
FMI-FAM IND INJURY	0.00	144.00	0.00	0.00	176.00	0.00	320.00
FML-FAMILY CARE LEAVE	176.00	230.00	171.88	158.00	612.00	0.00	1,347.88
FMS-FAMILY LEAVE SICK	96.80	32.00	147.08	48.73	378.20	0.00	702.81
HLF-HOLIDAY FLOATING	48.00	144.00	188.00	112.00	96.00	0.00	588.00
II-INDUSTRIAL INJURY	0.00	9.00	360.00	0.00	0.00	0.00	369.00
IIR-INDUS INJURY-REOCCUR.	0.00	40.00	0.00	0.00	0.00	0.00	40.00
JUR-JURY DUTY	48.00	8.00	232.00	8.00	0.00	0.00	296.00
LC1-LABOR CODE 233	40.00	358.08	228.14	152.00	144.00	0.00	922.22
MLN-MILITARY ABSENCE-UNPAID	0.00	0.00	176.00	0.00	0.00	0.00	176.00
OWP-OFF WITH PERMISSION	0.00	0.50	16.00	0.00	0.00	0.00	16.50
RTO-REQUESTED TIME OFF-NO PA	0.00	58.00	0.00	0.00	0.00	0.00	58.00
SCK-SICK PAY	16.00	132.00	240.00	48.00	64.00	0.00	500.00
SCW-SICK WITHOUT PAY	0.00	64.00	0.00	40.00	40.00	0.00	144.00
TAR-TARDY	0.00	3.18	0.41	4.34	0.77	0.00	8.70
VAC-VACATION	96.00	348.00	192.00	316.00	169.00	0.00	1,121.00
VAC-VACATION WHILE SICK	0.00	0.00	40.00	0.00	0.00	0.00	40.00
Total Absence Hours	563	2,881	3,510	1,102	2,348	2	10,406
Number of Work Force (assigned)	26	117	109	47	53	5	357
Full Work Force hours/month	4,506	20,276	18,890	8,145	9,185	867	61,868
Absence as a % of Work Force	13%	14%	19%	14%	26%	0%	17%
OVERTIME TYPE and HOURS	3940	3941	3942	3943	3944	3947	Total
CTB-COMPENSATORY TIME TO BAN	0	90	106	20	137	40	393
OTP-PREM OVERTIME	598	4011	3589	1226	1017	8	10449
WLO-Worked Lunch Overtime	1	67	145	70	87	2	370
Total	599	4168	3840	1316	1241	50	11212
Overtime as a % of Work Force	13%	21%	20%	16%	14%	6%	18%
UNCOVERED ABSENCES	3940	3941	3942	3943	3944	3947	Total
Absences FTE	3	17	20	6	14	0	60
OTP FTE	3	24	22	8	7	0	65
FTE Difference	0	-7	-2	-2	7	0	-5



Rail Vehicle Engineering Project Summary

March 2012

Preparation of Engineering Technical Specifications	Tracking #	Status
Red Line AC Gear Box (Rev. 0)	A650/TS/026	Draft in process
Powered Axle Overhaul SOW	P2000 SOW	Released - Reviewing bids
Vital Relay Calibration	P865-P2020/TS/061	In Revising Process
Windows glass and rubber glazing specification	P865-P2020/TS-xx	Draft in Progress
Friction Brake Kit Less Air Compressor Overhaul	P2000/TS/035 Rev 0	Released to Procurement for bid
Center Truck Friction Brake Disc	P2000-TS-020 rev. 01	Released to Procurement for bid
A650 Battery Specification	A650/TS/39	Released to Procurement for bid
Powered Axle Overhaul SOW	P865-P2020/TS/xx	Draft in Progress - CH2M
Seat Insert	P865-P2020/TS/62	Released to Procurement for bid
Red Line DC Gear Box (Rev. 0)	P650/TS/040	Final review
Vandal Shield for all lines	A650-P865-P2000-P2550/TS/012	Released to Procurement for bid
Aux power supply equipment (APSE) - Static Inverter	P865-P2020/TS/xx	In review by Metro - CH2M
Tire kit specification	P865-P2020/TS/xx	Draft in process
Red Line (Base Buy) DC Traction Motor	P650/TS/041	Draft in Review Progress
General - All Lines		Status
Roadway Worker Protection		CPUC/Installing ProTran1 Device-P865/P2020/P2000/P2550 completed, A650 in process
Fleet Support, troubleshooting, and fix cars		CH2M Hill
New Radios installed to replace old radios		Meeting 3/7/2012-Contract awarded, prototype by mid April.
Bike Space		P2000/P2550/A650 Fleet modification completed.
P2000 Overhaul Program		Status
Master Controller - Bombardier Refurbish		Ongoing Program
Wheel flats		LB Foster prototype - Gill applicator testing
New LED Destination Signs		Luminator Prototype approved - In process of developing spec for bid
RSS and EOSS Bundle Cables/Connectors - Glenair		In Progress
Handicap Seat Modification using Velcro		In Progress
CCH possible replacement (Focon)		Send information to Focon
P865/P2020 Program		Status
Static Inverter - Transtechnik		Inverter running in revenue service for testing - No issues
Remotely reset CB1 Breaker		Prototype was successfully tested. Procuring parts for fleet modification.
"G" force measurement on Transponder installed on P865/P2020		H&K installed "G" sensor on transponder and collected data for analysis - 03/08/12. New carbody mounted bracket were tested and in fabrication for fleet modification.
Traction Motor Cleaning Procedure		Completed
HVAC Compressor Overhaul		In Progress - CH2M
P3010		Status
78 New Light Rail Vehicle		Solicitation completed
P2000 Gold to Green		Status
Signal package conversion (Gold to green)		On-hold
A650 Overhaul Program		Status
Midlife Overhaul Specification		Draft complete by Metro. In process of Consultant selection to complete.
HPT Upgrade		Wabtec Proposal received - Production run prototype by mid April
AB New Traction Motor Mount		AB for Fleet Modification in progress. A total of sixty (60) trucks were completed.
Friction Brake Kit Overhaul		Overhaul program in place - Wabtec (30 Base cars were added and approved)
Ribbed Rubber Flooring PRF		Dealing with OEM
Door Operator Gearbox and Rollers Overhaul		In Progress
H-4 electronic units		Unit upgrade - Fleet issues (Wabtec)
P2550		Status
Vehicle Acceptance		Forty eight cars have been Final Accepted. Car 701 is scheduled for mid April delivery.
Gearbox Seepage/Leakage investigation		Greg Garza will add O-ring part number on M3
3P Flip Up Seat Finger Guard		Submitted SS to Procurement - Testori
Find alternative Vendor for Reverse Engineer PCB Boards P2550		In Progress
Compressor Dessicant Material		In Progress
Rubber Boots (High Voltage)		In Progress - Vulcanite
Cyclope light Glass		In Progress - NASG
Ground Brush Schunk (Lamellar Seal failure investigation)		In Progress
Expo		Status
Readiness		Metro-RFS Engineering is supporting qualification and test activities of vehicles and wayside.
ATP Certification		Mainline Testing Completed; waiting for final letter
P2000 Couple/un-couple issues		Investigation in process
Junction of Blue line and Expo line Testing		Signal Test support in progress

P2550 Vehicle Acceptance Program

March 2012

Vehicle Status Update:

- Metro has received 48 cars with all 48 being final accepted.
- Two prototype cars remain at contractor's assembly site in Pittsburg and are being updated to the latest configuration.

Engineering Activities Update:

- Event recorder: Configuration continues to be finalized; however, on-site support from contractor and supplier is required to resolve final technical issues. Faiveley-France is targeted to be on site in near future to expedite qualification and provide training.
- Decelerometer Failures: Supplier completed internal qualification to replace those on the fleet.

Production Car Status – Pittsburg:

- Cars 701& 702 - Reconfiguration of cars is in process. These cars are now targeted to ship to Los Angeles by May 2012.

Project Management:

- Contract spares continue to be delivered to Metro and estimated to be 85% complete. All parts needed for day-to-day maintenance have been received. Critical parts needed for heavy repairs are scheduled to begin arriving in Q2 2012.
- Daily and bi-weekly meetings are scheduled with contractor management to address project issues

QA-Warranty Program Projects Summary

March 2012

QA-WARRANTY ACTIVITIES:

- On-Going, P2550 Car Mod Campaign / Testing Oversight, Component Reliability Trend Tracking.
- On-Going, P2550 parts tracking: Contract Spares, Capital Spares, Warranty Spares & Metro Loaned Parts.
- On-Going, P2550 warranty claims.
- On-Going, A650 Base Buy & Option car fleet warranty – Truck Frame Modification Campaign (36 trucks of 232 modified to date). A MRL Cost Avoidance savings accrued to date \$189,856.00.
- On-Going, MBL P865/P2020 69-car fleet 7.5K PMI supplemental inspection checks.
- QA & Warranty Manuals (Rev#2) distributed to RFS Department.
- QA First Article Inspections/ Investigations (29) conducted.
- QA PMI Audits & QA Spot Checks performed (18).
- CCTV Video Downloads – 9 hours
- Technical support, Expo Line ATP/TWC Project, Cab Signal, TWC Over Speed No Power readiness testing.
- Warranty-QA interest oversight & tracking: Overhauls / Mod Programs, (A650/P2000/P2020/865) 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).
- Total Warranty Cost Avoidance accrued all divisions for 2012 (\$302,225.99).
- On-Going HR Manpower & TCU Chairman, discussions Equipment Record Specialist (ERS) roster separation (Bus from Rail).
- QA-Warranty's Share Drive Admin, archive all reports and records.

RFS Instruction Department Activities

March 2012

Training classes completed during the month of March 2012

Description	Course Hours	Student Count	Training Hours
Blue & Expo Line Training - (P865/2020 & P2000 LRV):			
RFS SIEMENS MAINLINE DUTY, DEAD TOW AND VEHICLE RECOVERY	8	62	496
RFS SIEMENS 2000 FRICTION BRAKES	48	5	240
Total Blue Line Training (Hours):			736
Green Line Training (P2000 LRVs):			
RFS SIEMENS 2000 FRICTION BRAKES	48	1	48
Total Green Line Training (Hours):			48
Total RFS Instruction for the month of March 2012 (Hours):			784.0
Other Instruction Activities			
Assisting Blue\Expo Maintenance with failure investigations			160
Red Line Technical Support & Assessing PMs			160
Total Other Instruction Activities			320.0

Core Vehicle Training Completed: BLUE RED GREEN GOLD

Percentage of core vehicle training complete:	80.4%	99.5%	97.2%	93.9%
Siemens P2000 training complete:	40.8%	N/A	N/A	N/A

Average Specialist Rail Experience Level in Years: **10.7** **10.6** **9.5** **10.1**

Core Training Completed

