



Rail Fleet Services Monthly Report February 2014



Metro

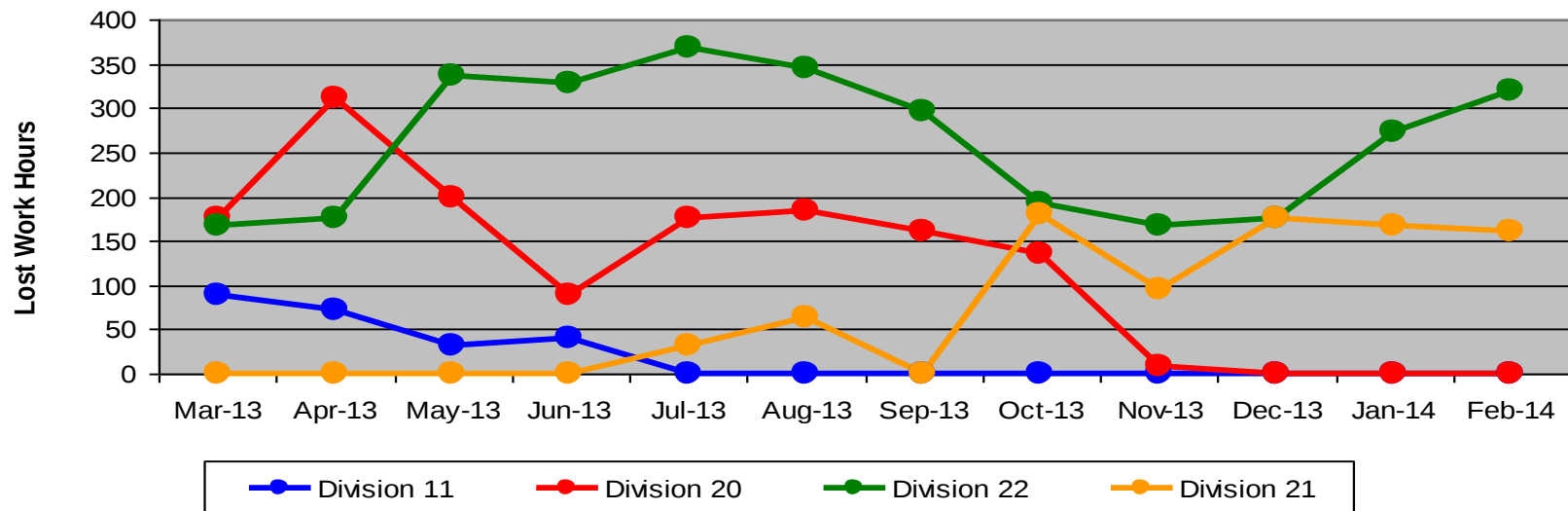
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Industrial Injuries – Lost Work Hours February 2014

	Mar-13	Apr-13	May-13	Jun-13	Jul-13	Aug-13	Sep-13	Oct-13	Nov-13	Dec-13	Jan-14	Feb-14	12-Month Period
Division 11	88	72	32	40	0	0	0	0	0	0	0	0	232
Division 20	176	312	200	88	176	184	160	136	8	0	0	0	1,440
Division 22	168	176	336	328	368	344	296	192	168	176	272	320	3,144
Division 21	0	0	0	0	32	64	0	180	96	176	168	160	876
Totals	432	560	568	456	576	592	456	508	272	352	440	480	5,692

Industrial Injuries (lost work hours)



Rail Vehicle Accidents & Major Incidents

February 2014

Repair Costs	Mar-13	Apr-13	May-13	Jun-13	Jul-13	Aug-13	Sep-13	Oct-13	Nov-13	Dec-13	Jan-14	Feb-14	12-Month Period
Blue/Expo Line	\$2,959	\$237,017	\$11,700	\$4,926	\$14,951	\$2,338	\$3,700	\$11,475	\$13,838	\$0	\$8,370	\$15,618	\$326,892
Red/Purple Line	\$0	\$4,165	\$0	\$0	\$0	\$1,358	\$0	\$0	\$0	\$0	\$0	\$0	\$5,523
Green Line	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,008	\$0	\$0	\$1,008
Gold Line	\$0	\$0	\$261	\$8,220	\$0	\$537	\$0	\$0	\$0	\$0	\$0	\$0	\$9,018
Totals	\$2,959	\$241,182	\$11,961	\$13,146	\$14,951	\$4,233	\$3,700	\$11,475	\$13,838	\$1,008	\$8,370	\$15,618	\$342,441

Rail Vehicle Accident Costs - February 2014

Date	Incident #	Problem Code	Incident Description	Cost
Metro Blue Line				
2/11/14	2419612	Train vs. Vehicle	A 10-73 was reported at 103rd Northbound, Track 1.	\$ 1,510
2/19/14	2422802	Train vs. Pedestrian	A 10-72 was reported at Century grade crossing, Train 121, Track 1.	\$ 490
2/19/14	2422880	Train vs. Pedestrian	A 10-72 was reported at Century grade crossing.	\$ 4,485
2/20/14	2423085	Train vs. Vehicle	A 10-73 was reported at Intersection of Long Beach and Burnett, Track 1, Northbound.	\$ 9,133
Total				\$ 15,618
Metro Gold Line				
2/11/14	2419631	Train vs. Object	A 10-71 was reported East Portal Track 1, Train 405, hearing flapping sound entering East Portal.	\$ -
2/14/14	2421131	Train vs. Vehicle	A 10-73 was reported at 3rd Street and Gage Street, Track 1.	\$ -
2/22/14	2423819	Train vs. Object	A 10-71 was reported involving Train 417 and shopping cart at Orange Grove Track 2 Southbound.	\$ -
Total				\$ -
Grand Total				\$ 15,618
(10-71) = Train vs. Object, (10-72) = Train vs. Pedestrian, (10-73) = Train vs. Vehicle (10-74) = Train vs. MTA Vehicle, (10-75) = Derailment				

Note: Repair costs are only the expenses captured during the time period of the report. Actual costs may be significantly higher, if repairs are spread out over several months.

Service Delivery February 2014

Blue/Expo Line Fleet Size: 92

<u>Pull Out</u>	<u>Vehicles Required</u>	<u>Average Available</u>	<u>% Up (Down)</u>
Weekday:	78	79	101%
Weekend:	60	63	105%
Late Pullouts: 2*			
Monthly Mileage:	608,365		

Red/Purple Line Fleet Size: 104

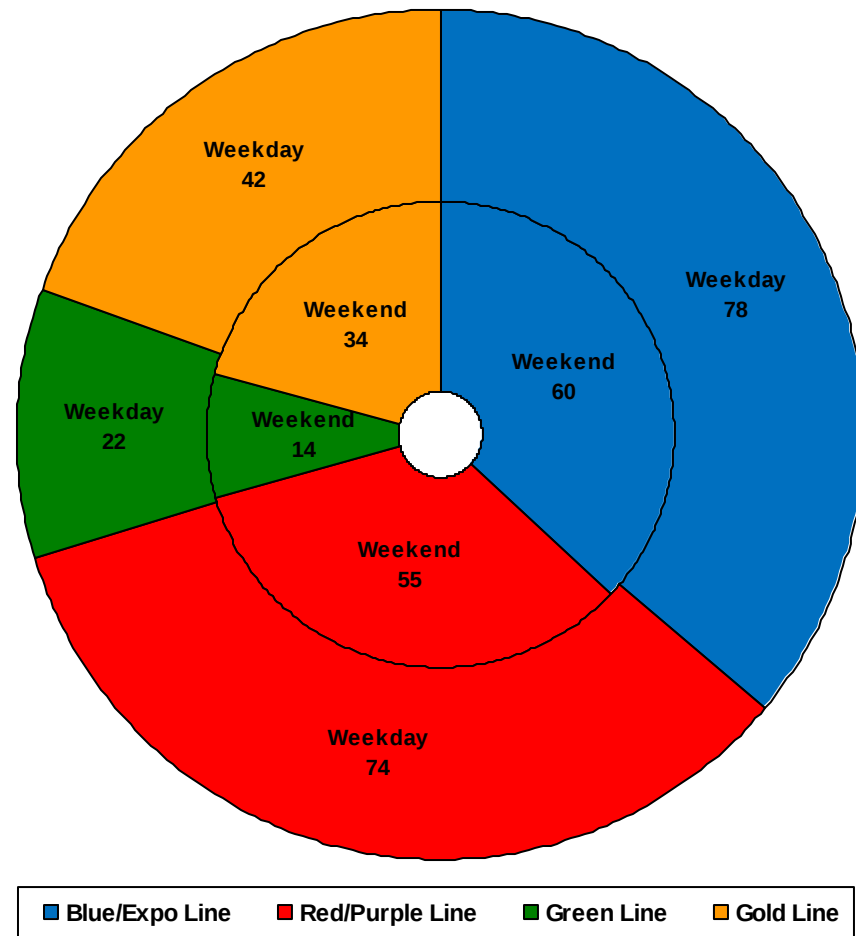
<u>Pull Out</u>	<u>Vehicles Required</u>	<u>Average Available</u>	<u>% Up (Down)</u>
Weekday:	74	80	108%
Weekend:	55	70	127%
Late Pullouts: 0*			
Monthly Mileage:	574,180		

Green Line Fleet Size: 29

<u>Pull Out</u>	<u>Vehicles Required</u>	<u>Average Available</u>	<u>% Up (Down)</u>
Weekday:	22	23	105%
Weekend:	14	17	121%
Late Pullouts: 0*			
Monthly Mileage:	212,256		

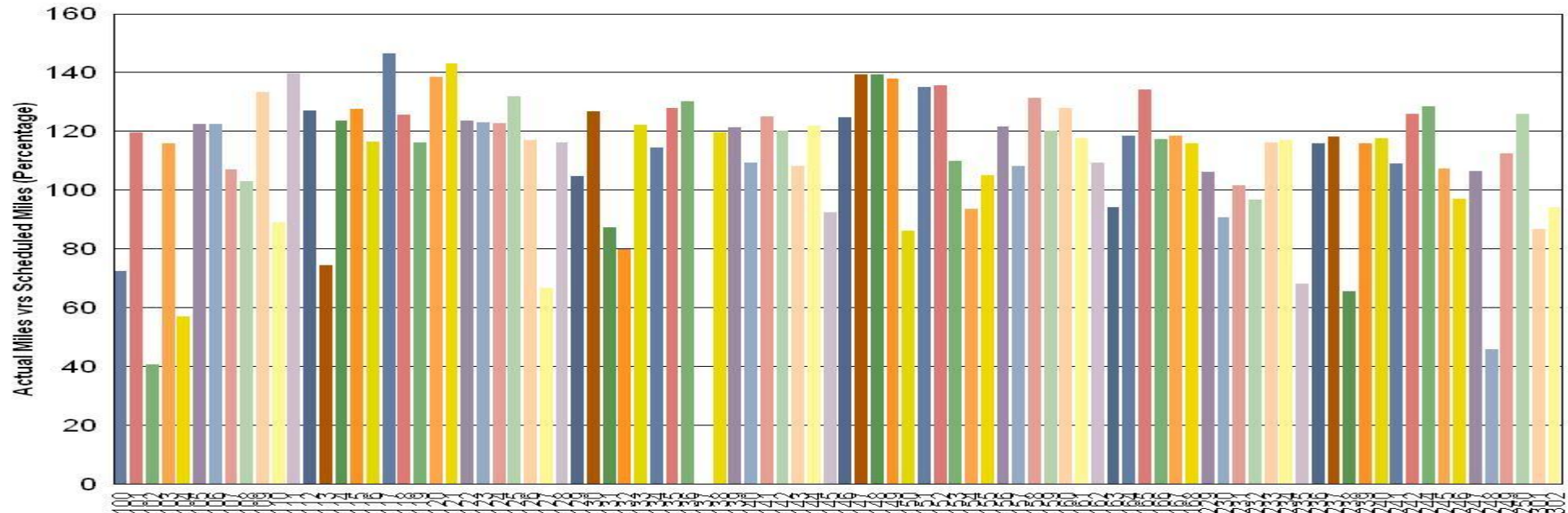
Gold Line Fleet Size: 50

<u>Pull Out</u>	<u>Vehicles Required</u>	<u>Average Available</u>	<u>% Up (Down)</u>
Weekday:	42	43	102%
Weekend:**	34	41	121%
Late Pullouts: 0*			
Monthly Mileage:	295,947		



Vehicle Utilization February 2014

Metro Blue/Expo Line



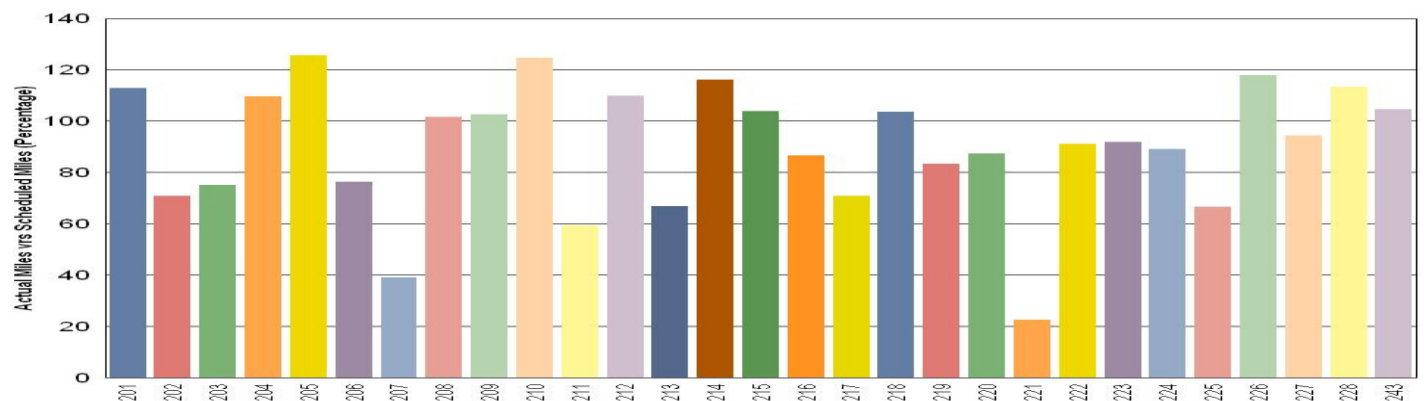
Blue/Expo Line:

Car # 137 has been out of service due to major accident repair.

Metro Green Line

Green Line:

Car # 207 & 221 Out of service for post inspection work order.



Note: Percentage includes an average 4% mileage deduction for yard mileage and vehicle testing.

Vehicle Utilization February 2014

Red/Purple Line:

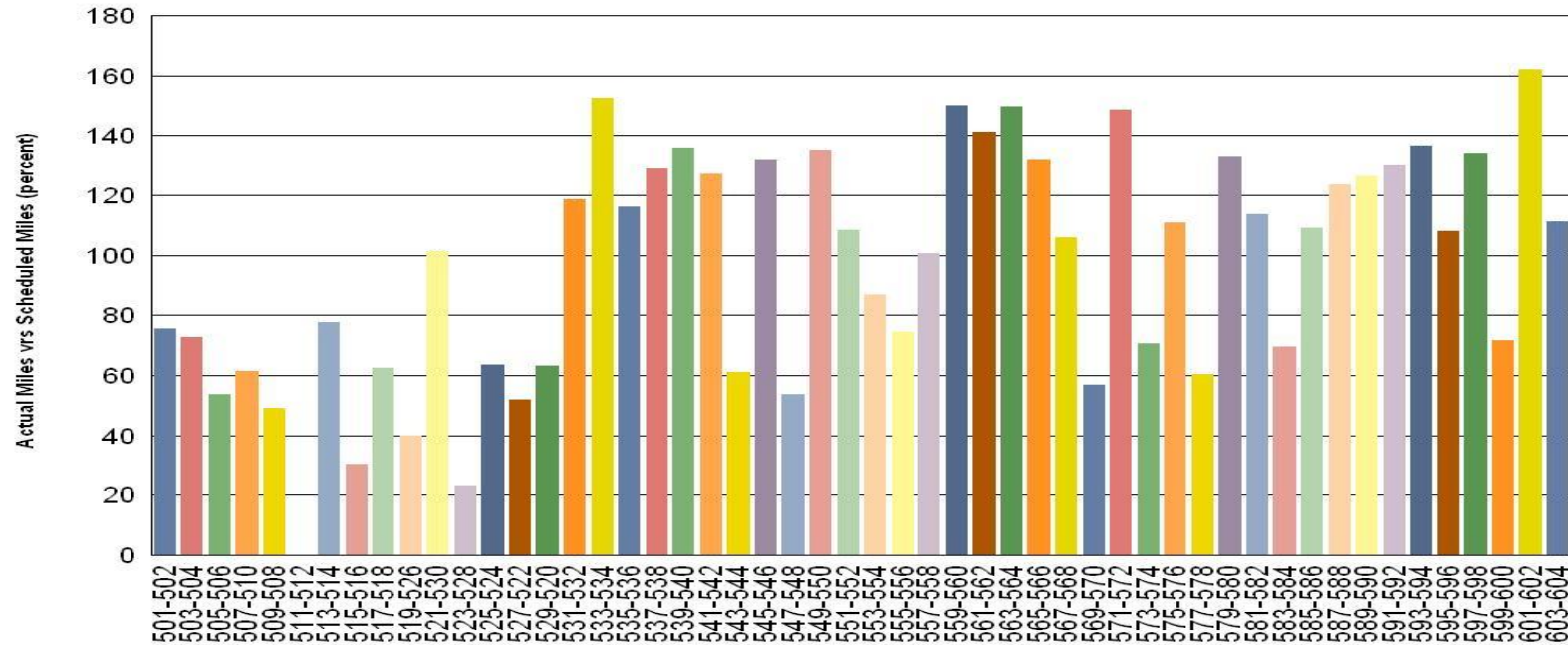
The following cars are out of service due to:

Car # 511-512 Floor repair.

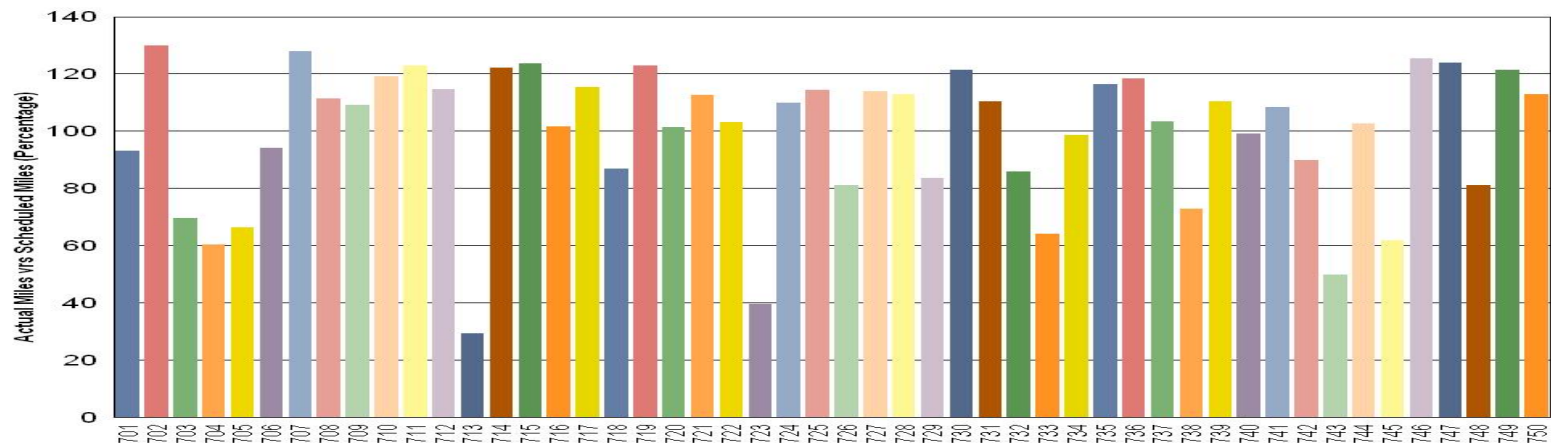
Car # 515-516 Propulsion and CB1 trip problem.

Car # 523-528 Propulsion and electric brake failure.

Metro Red/Purple Line



Metro Gold Line

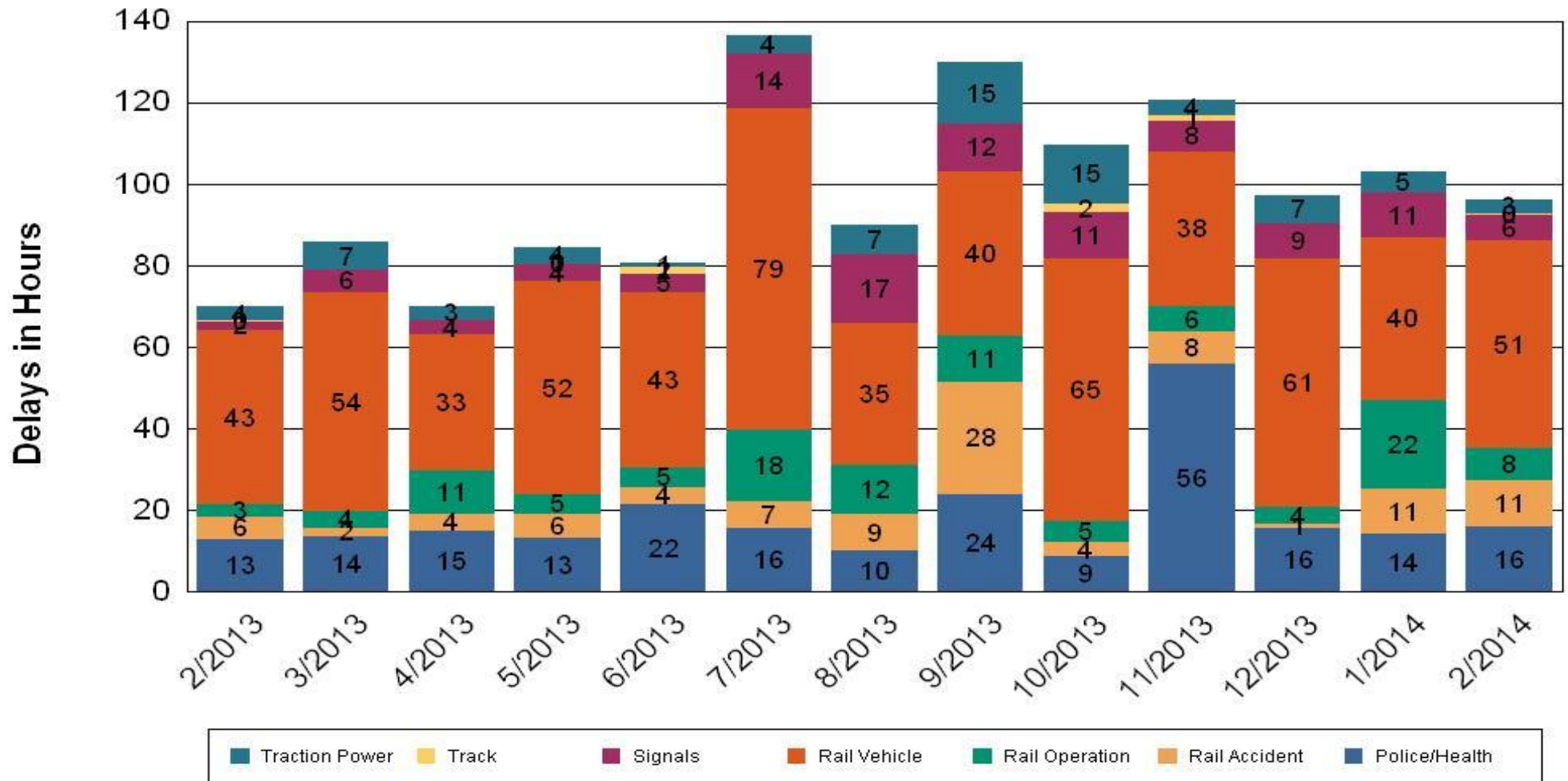


•Percentage includes an average 4% mileage deduction for yard mileage and vehicle testing.

All Train Delay Incidents February 2014

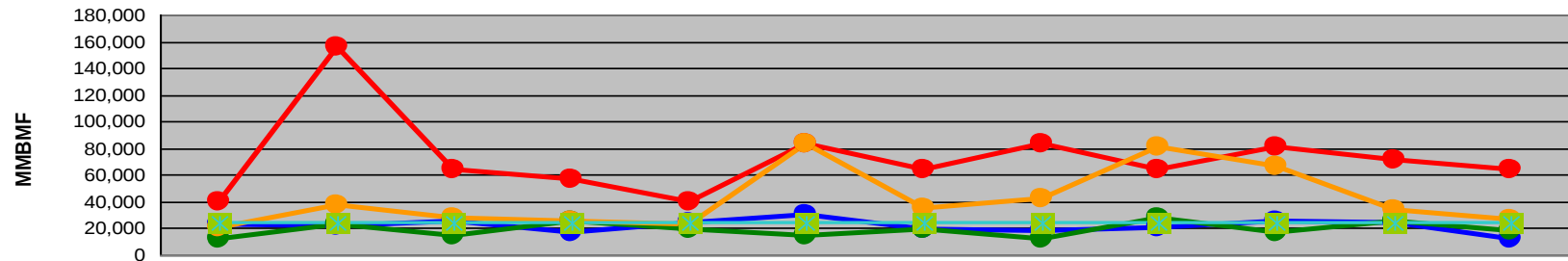
All Train Delays

Totals Include the delay to all trains involved (not just the primary incident)



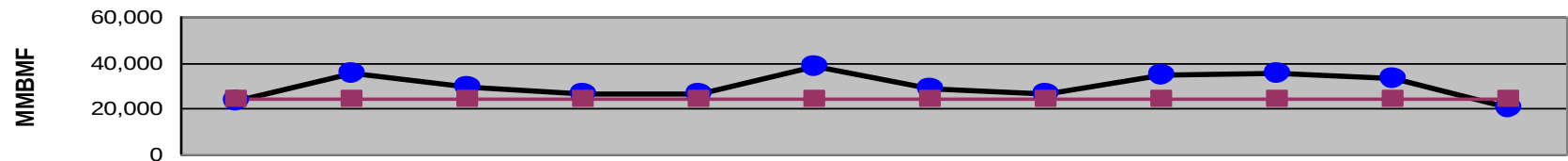
Mean Miles Between Failures (Major) Year to Date

Mean Miles Between Major Failures (by line)



	Mar-13	Apr-13	May-13	Jun-13	Jul-13	Aug-13	Sep-13	Oct-13	Nov-13	Dec-13	Jan-14	Feb-14
Blue/Expo Lines	23,226	21,992	25,783	17,082	23,591	30,773	19,332	17,764	21,123	25,328	23,589	11,929
Red/Purple Lines	39,694	155,798	63,886	56,770	39,539	83,229	63,847	83,821	63,627	80,905	71,293	63,798
Green Line	11,772	22,981	14,742	25,412	19,703	14,712	18,988	12,516	28,350	16,495	25,856	17,688
Gold Line	20,817	37,306	27,296	25,272	23,454	83,320	35,489	41,867	80,419	66,350	33,531	26,904
Goal	24,000	24,000	24,000	24,000	24,000	24,000	24,000	24,000	24,000	24,001	24,002	24,002

Mean Miles Between Major Failures (all)

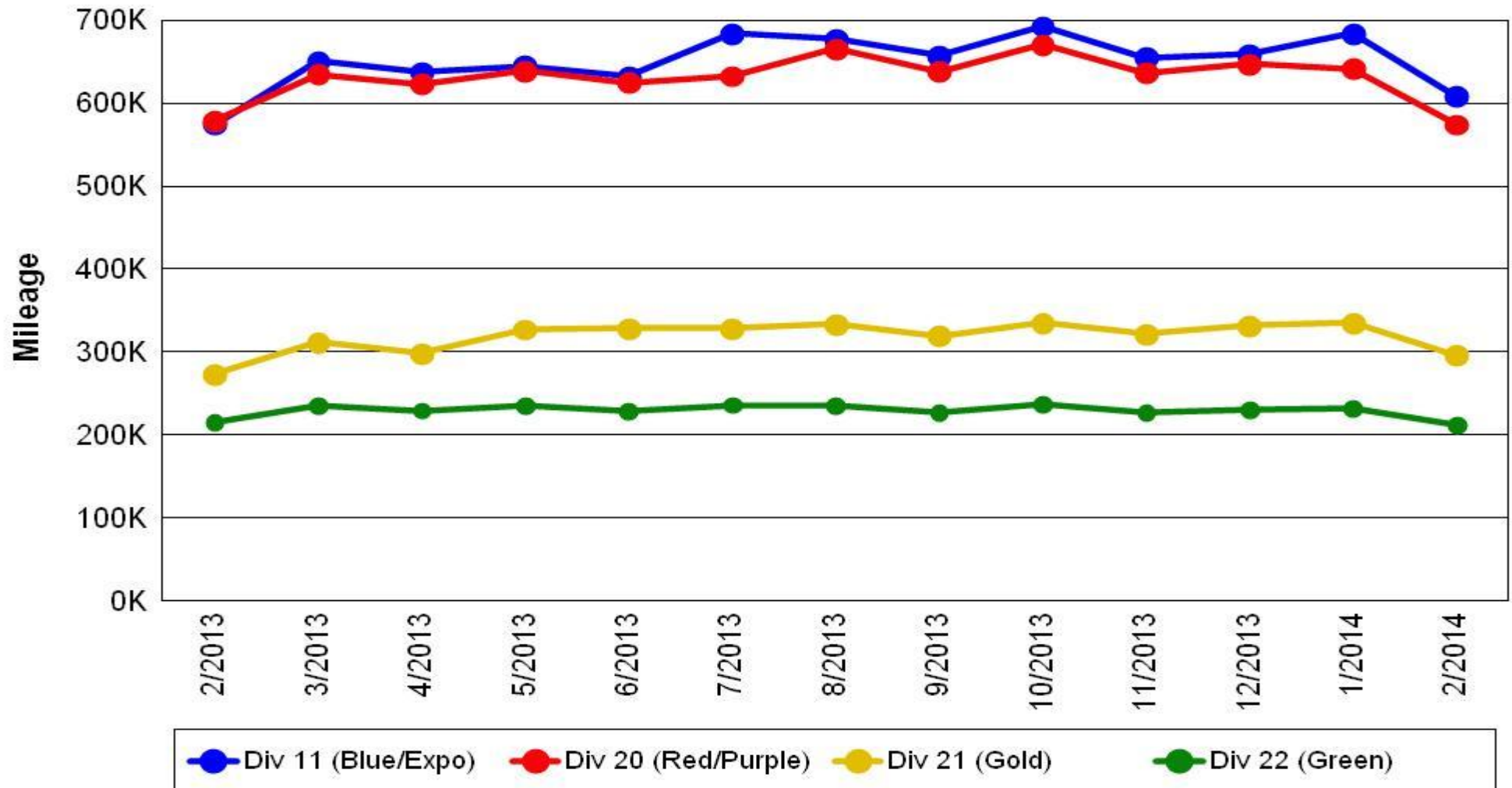


	Mar-13	Apr-13	May-13	Jun-13	Jul-13	Aug-13	Sep-13	Oct-13	Nov-13	Dec-13	Jan-14	Feb-14
All Rail	23,203	35,083	29,315	25,910	26,501	38,230	28,354	26,164	34,709	35,254	33,224	20,370
Goal	24,000	24,000	24,000	24,000	24,000	24,000	24,000	24,000	24,000	24,000	24,000	24,000

Mileage Between Data Range (by month)

February 2014

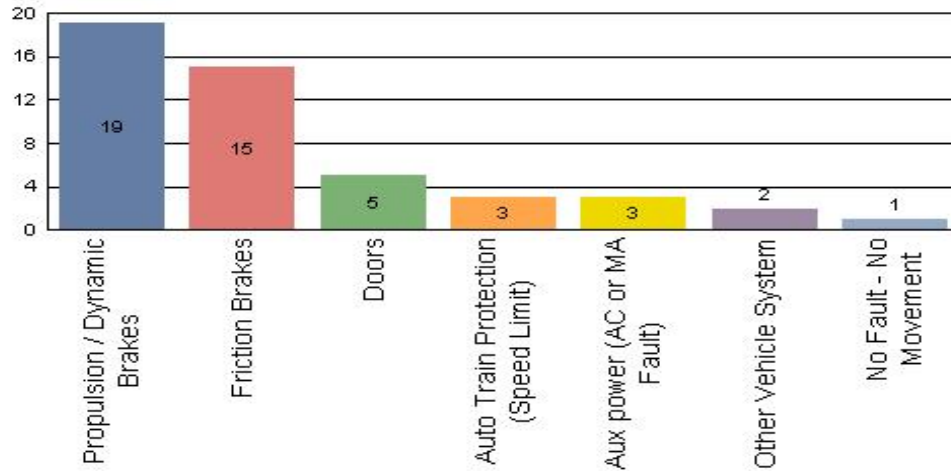
Rail Division Monthly Mileage



Major Incidents February 2014

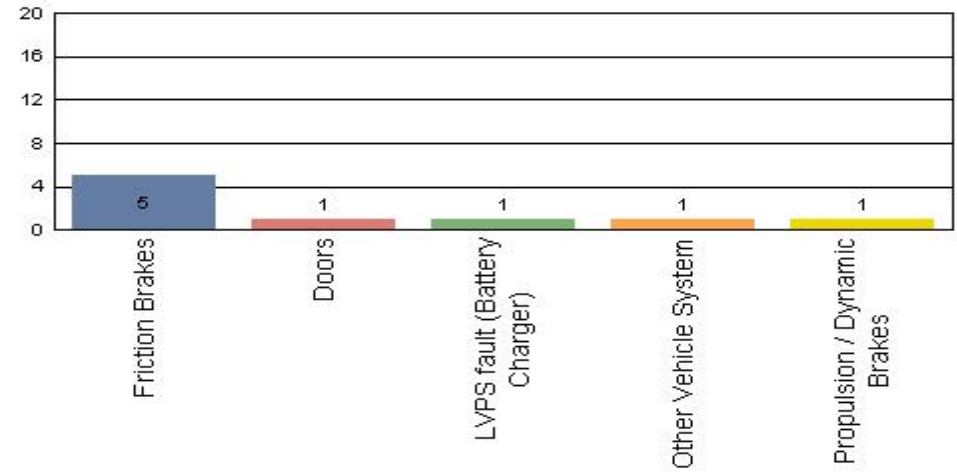
Metro Blue/Expo Line

Top Incident Categories



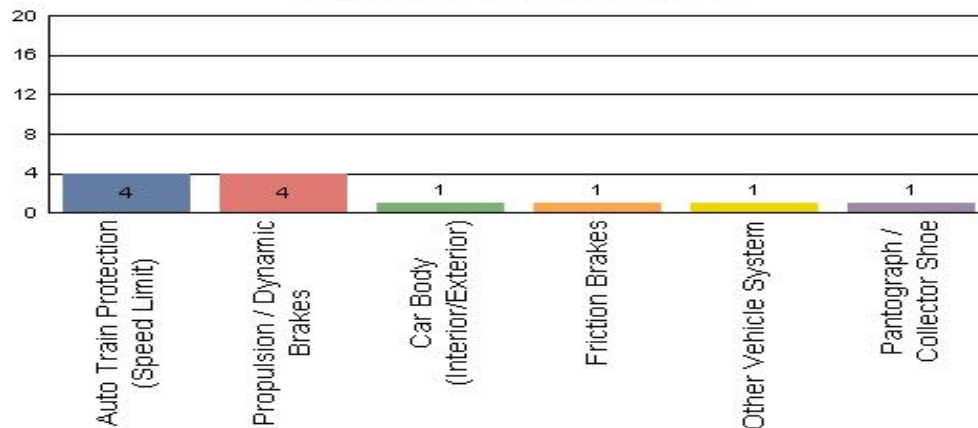
Metro Red/Purple Line

Top Incident Categories



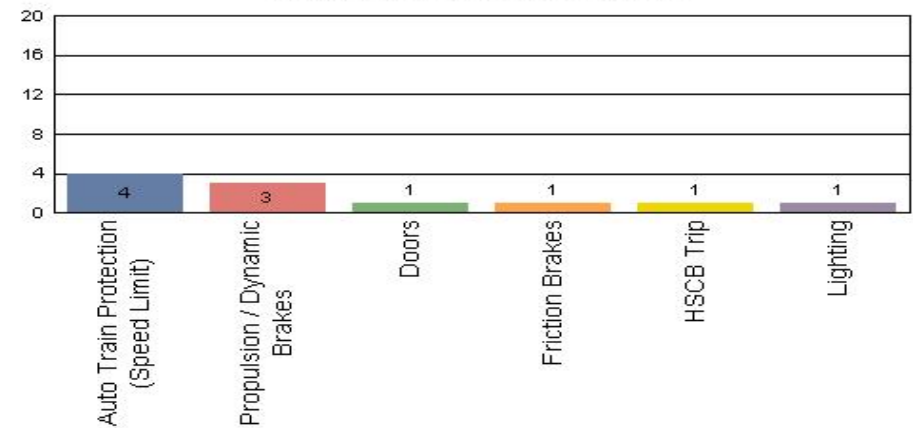
Metro Green Line

Top Incident Categories



Metro Gold Line

Top Incident Categories

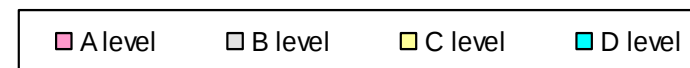
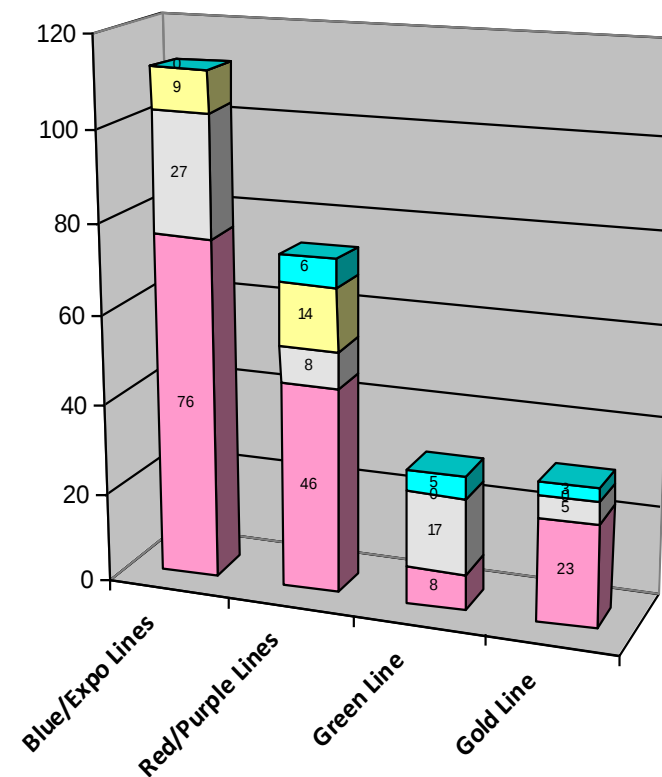


Preventive Maintenance Compliance February 2014

PM Compliance	Feb-13	Mar-13	Apr-13	May-13	Jun-13	Jul-13	Aug-13	Sep-13	Oct-13	Nov-13	Dec-13	Jan-14	Feb-14
Blue/Expo Lines	100%	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%	100%	100%	100%
Green Line	100%	100%	100%	91%	100%	100%	100%	100%	96%	92%	100%	100%	100%
Gold Line	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%

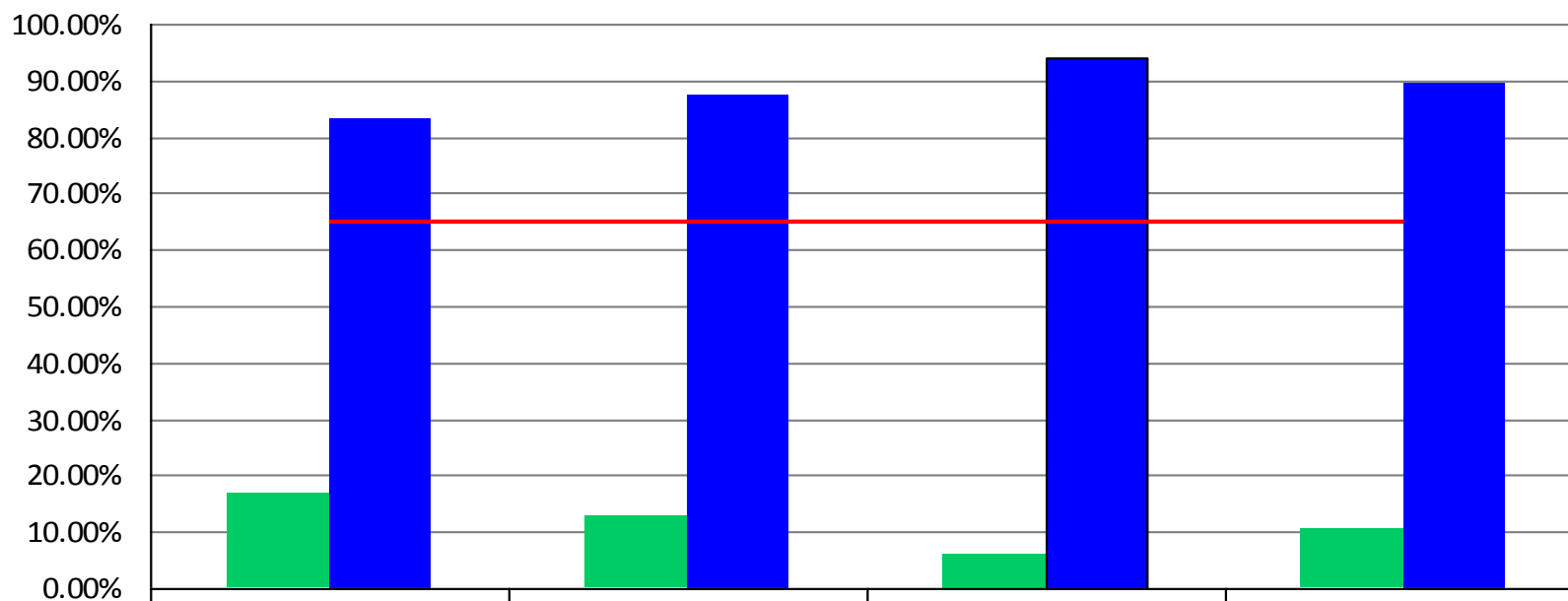
Number of Preventive Maintenance Inspections - February 2014					
Line	A level	B level	C level	D level	Totals
Blue/Expo Lines	76	27	9	0	112
Red/Purple Lines	46	8	14	6	74
Green Line	8	17	0	5	30
Gold Line	23	5	0	3	31
Totals:	153	57	23	14	247

Explanation of PM Inspection levels		Miles			
Line	Type	A level	B level	C level	D level
Blue/Expo Lines	P865/P2020	5,000	15,000	30,000	60,000
Blue/Expo Lines	P2000	7,500	22,500	45,000	90,000
Red/Purple Lines	A650	7,500	22,500	45,000	90,000
Green Line	P2000	7,500	22,500	45,000	90,000
Gold Line	P2550	10,000	30,000	60,000	120,000



RFS Wrench Turning February 2014

RFS - Wrench Turning February 2014



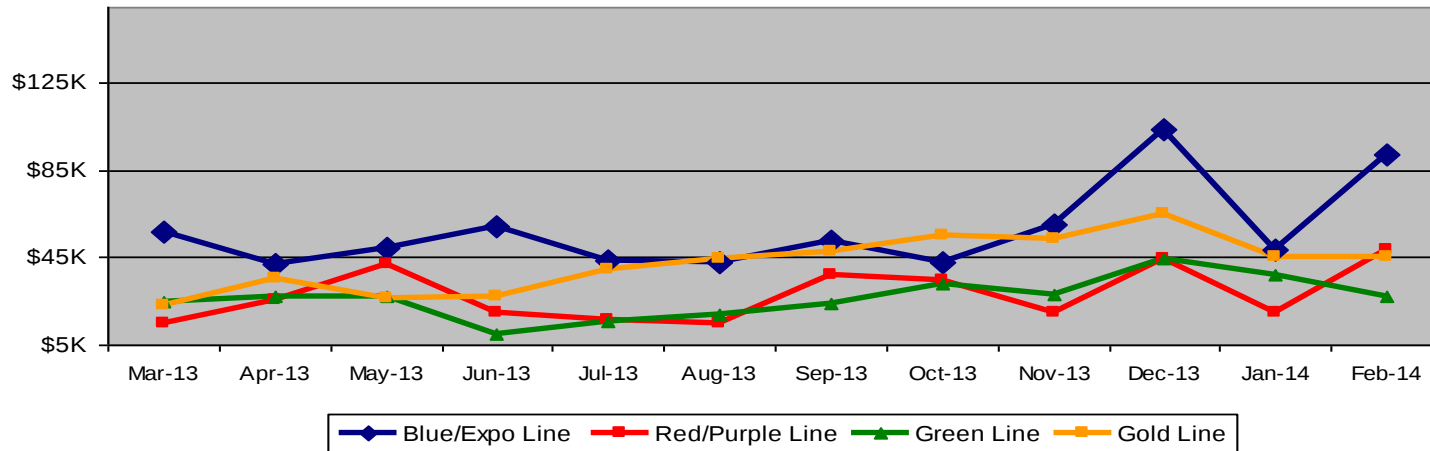
	Blue Line	Red Line	Green Line	Gold Line
Non-Wrench Turning	16.84%	12.66%	5.95%	10.59%
Wrench Turning	83.16%	87.34%	94.05%	89.41%
Goal	65%	65%	65%	65%

Vandalism & Graffiti Report

February 2014

Graffiti Costs

	Mar-13	Apr-13	May-13	Jun-13	Jul-13	Aug-13	Sep-13	Oct-13	Nov-13	Dec-13	Jan-14	Feb-14	12-Month Period
Blue/Expo Line	\$57K	\$42K	\$49K	\$59K	\$44K	\$43K	\$53K	\$43K	\$60K	\$104K	\$49K	\$92K	\$695K
Red/Purple Line	\$15K	\$26K	\$42K	\$19K	\$16K	\$14K	\$37K	\$35K	\$20K	\$44K	\$19K	\$49K	\$338K
Green Line	\$24K	\$27K	\$28K	\$10K	\$15K	\$19K	\$24K	\$33K	\$28K	\$44K	\$37K	\$27K	\$318K
Gold Line	\$23K	\$36K	\$27K	\$27K	\$39K	\$44K	\$48K	\$56K	\$54K	\$66K	\$46K	\$46K	\$510K
Totals:	\$119K	\$131K	\$146K	\$116K	\$115K	\$121K	\$162K	\$167K	\$162K	\$258K	\$151K	\$214K	\$1,861K



February 2014 Vandalism & Graffiti - All Rail				
	Qty	Labor	Materials	Totals
Windows replaced	351	\$ 29,358	\$ 54,247	\$ 83,605
Vandal Shields	414	\$ 12,590	\$ 6,356	\$ 18,946
Seats Cleaned	525	\$ 2,995	\$ -	\$ 2,995
Seats Replaced	580	\$ 18,271	\$ 24,771	\$ 43,042
Graffiti removal - other	894	\$ 27,848	\$ 1,400	\$ 29,248
Repainting panels	269	\$ 22,239	\$ 13,723	\$ 35,962
Totals	3,033	\$ 113,301	\$ 100,497	\$ 213,798

Graffiti Pictures February 2014

Blue Line



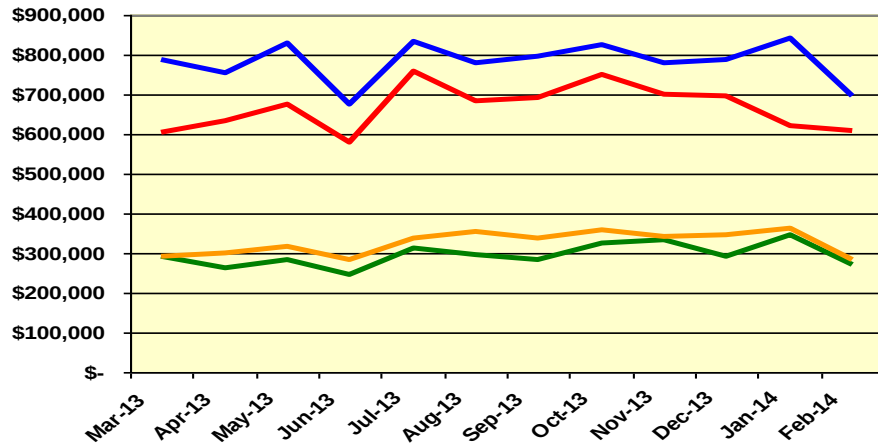
Gold Line



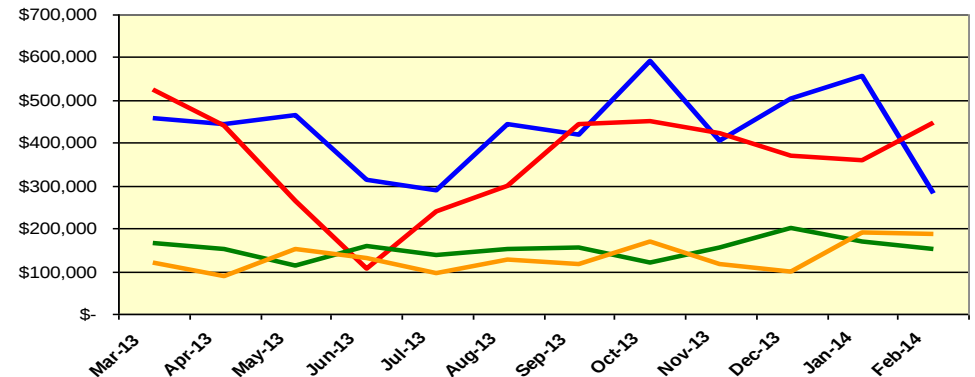
Labor and Material Costs

February 2014

Labor Costs



Material Costs



Mar-13	Apr-13	May-13	Jun-13	Jul-13	Aug-13	Sep-13	Oct-13	Nov-13	Dec-13	Jan-14	Feb-14
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LABOR COSTS

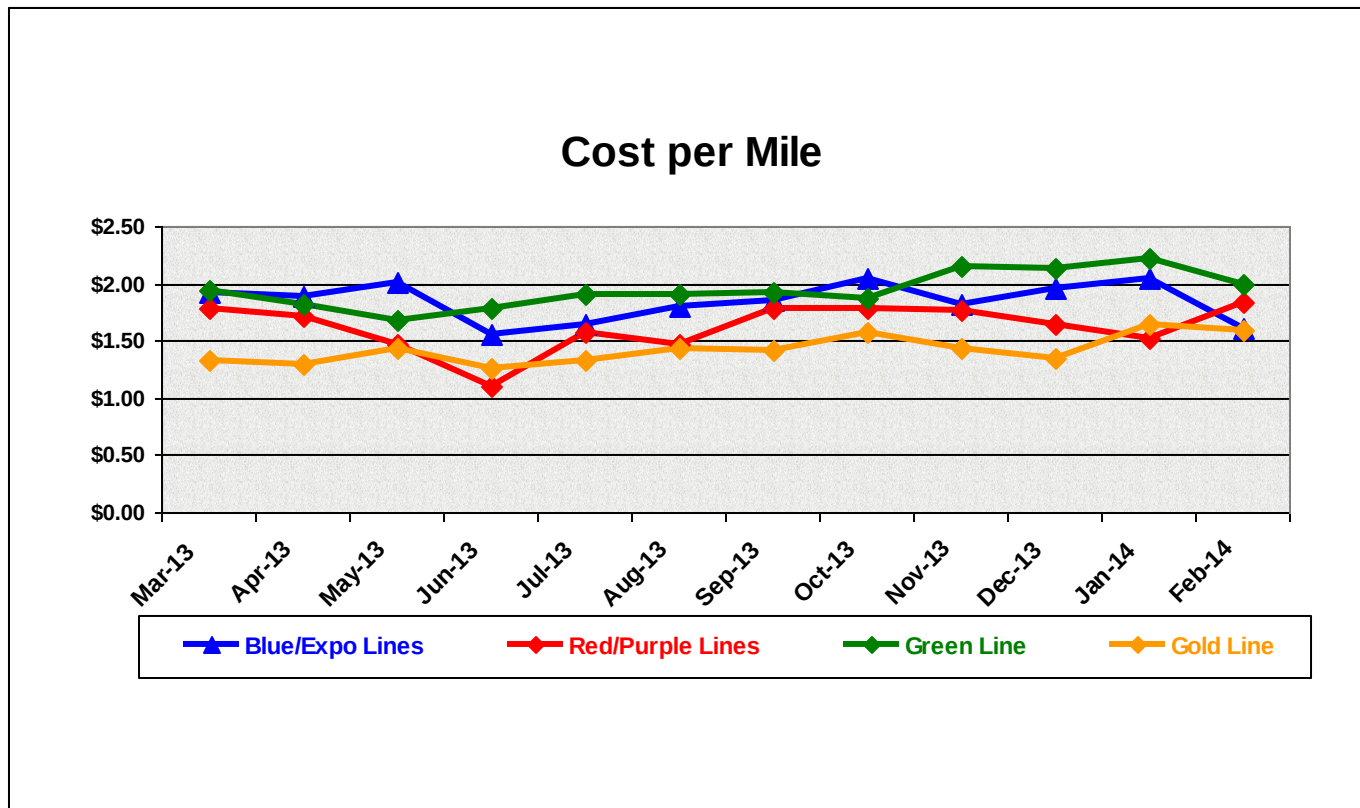
Blue/Expo Lines	\$ 788,111	\$ 755,561	\$ 829,721	\$ 675,752	\$ 833,333	\$ 777,432	\$ 794,828	\$ 826,769	\$ 780,678	\$ 788,589	\$ 842,979	\$ 695,394
Red/Purple Lines	\$ 605,903	\$ 631,518	\$ 675,950	\$ 579,395	\$ 756,262	\$ 684,850	\$ 693,597	\$ 750,452	\$ 700,975	\$ 697,759	\$ 620,440	\$ 608,097
Green Line	\$ 289,639	\$ 263,955	\$ 282,841	\$ 247,129	\$ 312,740	\$ 295,374	\$ 284,105	\$ 323,749	\$ 332,737	\$ 292,482	\$ 345,262	\$ 271,877
Gold Line	\$ 292,452	\$ 298,759	\$ 317,387	\$ 282,541	\$ 338,719	\$ 352,473	\$ 336,795	\$ 357,408	\$ 343,700	\$ 345,170	\$ 363,886	\$ 283,563
Totals	\$ 1,976,105	\$ 1,949,793	\$ 2,105,899	\$ 1,784,817	\$ 2,241,054	\$ 2,110,129	\$ 2,109,325	\$ 2,258,378	\$ 2,158,090	\$ 2,123,999	\$ 2,172,567	\$ 1,858,931

MATERIAL COSTS

Blue/Expo Lines	\$ 457,700	\$ 444,569	\$ 463,311	\$ 311,415	\$ 288,894	\$ 442,803	\$ 419,133	\$ 589,324	\$ 406,032	\$ 502,761	\$ 556,457	\$ 282,466
Red/Purple Lines	\$ 522,856	\$ 440,708	\$ 263,158	\$ 105,805	\$ 238,207	\$ 298,670	\$ 441,927	\$ 449,033	\$ 422,849	\$ 369,819	\$ 357,244	\$ 448,225
Green Line	\$ 166,766	\$ 151,982	\$ 114,311	\$ 159,526	\$ 138,190	\$ 152,243	\$ 154,678	\$ 119,411	\$ 154,582	\$ 201,035	\$ 169,759	\$ 150,881
Gold Line	\$ 120,086	\$ 89,212	\$ 149,564	\$ 129,742	\$ 95,664	\$ 126,942	\$ 114,461	\$ 167,128	\$ 116,167	\$ 99,267	\$ 189,310	\$ 186,640
Totals	\$ 1,267,408	\$ 1,126,471	\$ 990,344	\$ 706,488	\$ 760,956	\$ 1,020,659	\$ 1,130,199	\$ 1,324,896	\$ 1,099,631	\$ 1,172,883	\$ 1,272,769	\$ 1,068,212

Cost Per Mile February 2014

Cost per mile:	Mar-13	Apr-13	May-13	Jun-13	Jul-13	Aug-13	Sep-13	Oct-13	Nov-13	Dec-13	Jan-14	Feb-14
Blue/Expo Lines	\$1.92	\$1.88	\$2.01	\$1.56	\$1.64	\$1.80	\$1.85	\$2.04	\$1.81	\$1.96	\$2.05	\$1.61
Red/Purple Lines	\$1.78	\$1.72	\$1.47	\$1.10	\$1.57	\$1.48	\$1.78	\$1.79	\$1.77	\$1.65	\$1.52	\$1.84
Green Line	\$1.94	\$1.81	\$1.68	\$1.78	\$1.91	\$1.90	\$1.93	\$1.86	\$2.15	\$2.14	\$2.21	\$1.99
Gold Line	\$1.32	\$1.30	\$1.43	\$1.25	\$1.32	\$1.44	\$1.41	\$1.57	\$1.43	\$1.34	\$1.65	\$1.59



No facility costs are included.

ATU Absences vs. Overtime

February 2014

ABSENCE TYPE and HOURS	3940 Admin.	3941 Blue	3942 Red	3943 Green	3944 Gold	3947 Expo	Total
BER-BEREAVEMENT	-	24	80	-	-	-	104
CTO-COMPENSATORY TIME OFF	36	354	310	196	172	81	1,149
CUT-EMPLOYEE LEAVES EARLY	-	-	0	-	-	-	0
CVA - CASUAL VACATION	24	44	468	72	128	-	736
DSL-DISABILITY LEAVE/LONG	-	360	192	160	-	-	712
EFH-EMG. FLOAT HOL.	-	8	32	16	24	-	80
ETO-EXCUSED TIME OFF	4	35	31	16	69	1	155
FMI-FAM IND INJURY	-	-	-	8	-	-	8
FML-FAMILY CARE LEAVE	160	672	360	393	321	96	2,001
FMS-FAMILY LEAVE SICK	72	120	32	20	42	20	306
HLF-HOLIDAY FLOATING	-	208	128	104	88	8	536
IPD-INJURED PARTIAL DAY	-	-	-	1	-	-	1
LC1-LABOR CODE 233	16	449	311	150	90	-	1,016
LTJ-OCCEPIL/LONGTRM INJ LEAVE	-	-	-	320	160	-	480
MLN-MILITARY ABSENCE-UNPAID	-	8	-	-	-	-	8
OWP-OFF WITH PERMISSION	-	-	24	-	-	-	24
RTO-REQUESTED TIME OFF-NO PAY	-	88	19	18	-	-	126
SCK-SICK PAY	19	72	229	144	97	-	561
SCW-SICK WITHOUT PAY	-	136	74	82	43	-	335
SUS-DISCIPLINARY SUSPENSION	-	-	-	-	-	8	8
TAR-TARDY	0	2	2	0	1	-	5
VAC-VACATION	40	561	396	140	204	24	1,365
Total Absence Hours	371	3,141	2,688	1,839	1,438	238	9,716
ATU Number of Work Force (assigned)	8	122	112	48	47	5	342
Full Work Force hours/month	1,386	21,143	19,410	8,318	8,145	867	59,269
Absence as a % of Work Force	27%	15%	14%	22%	18%	27%	16%

OVERTIME TYPE and HOURS	3940 Admin.	3941 Blue	3942 Red	3943 Green	3944 Gold	3947 Expo	Total
CTB-COMPENSATORY TIME TO BANK	28	66	141	12	81	27	354
OTP-PREM OVERTIME	460	5,149	3,939	2,094	1,944	159	13,746
WLO-Worked Lunch Overtime	28	127	193	132	88	8	575
Total Overtime Hours	516	5,341	4,273	2,238	2,113	194	14,675
Overtime as a % of Work Force	37%	25%	22%	27%	26%	22%	25%
FTE Calculation - Absence & OT Hours	3940	3941	3942	3943	3944	3947	Total
Absences FTE	2	18	16	11	8	1	56
OTP FTE	3	31	25	13	12	1	85
FTE Difference	-1	-13	-9	-2	-4	0	-29

Note: Overtime also covers other required activities.

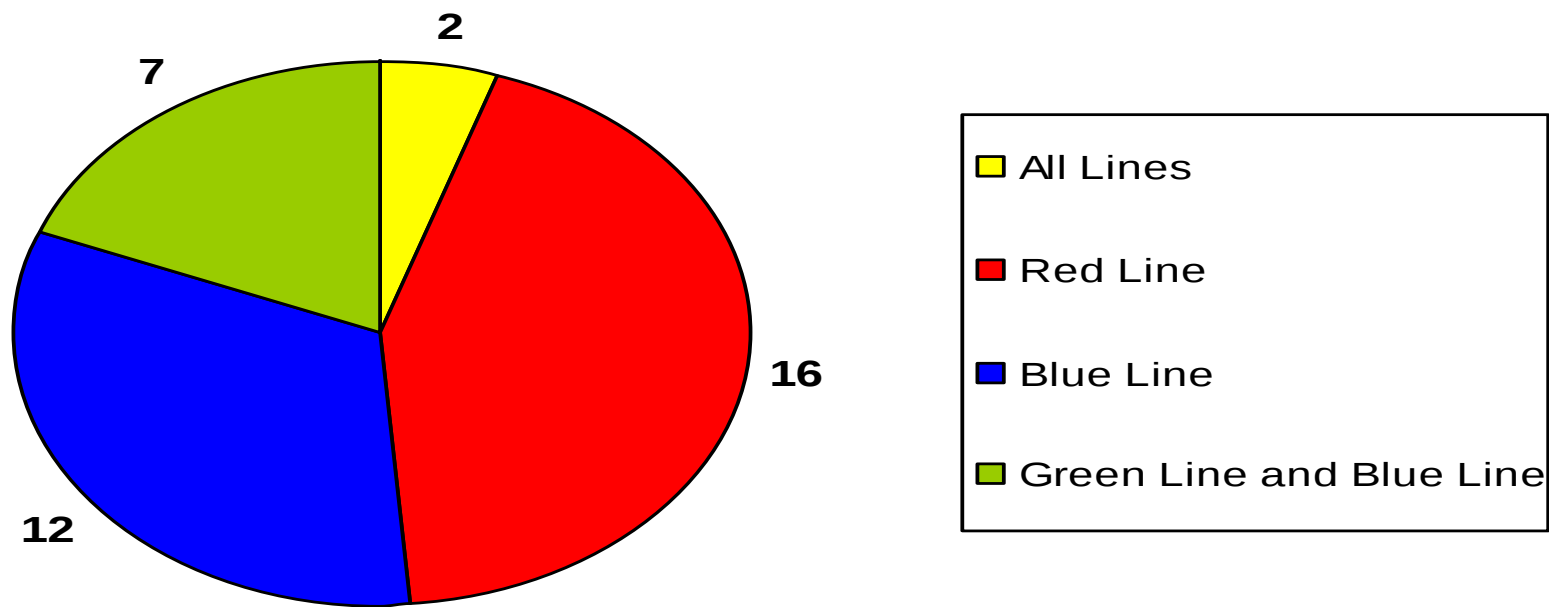
Rail Vehicle Engineering Project Summary

February 2014

Engineering Technical Specifications

100% Completion - Total of 37

February 2014

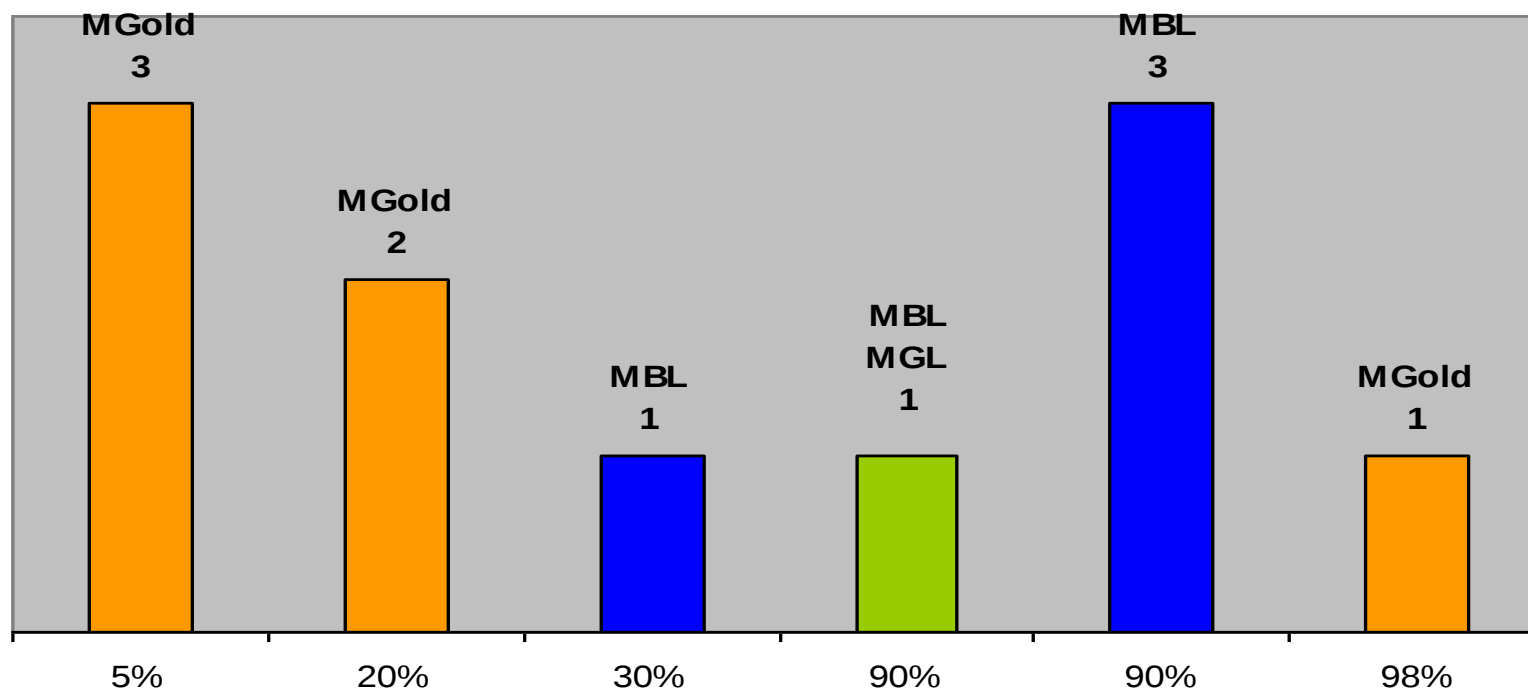


Details of specifications are available upon request.

Rail Vehicle Engineering Project Summary (cont'd)

February 2014

Engineering Technical Specifications Less than 100% Completion - Total of 11 February 2014

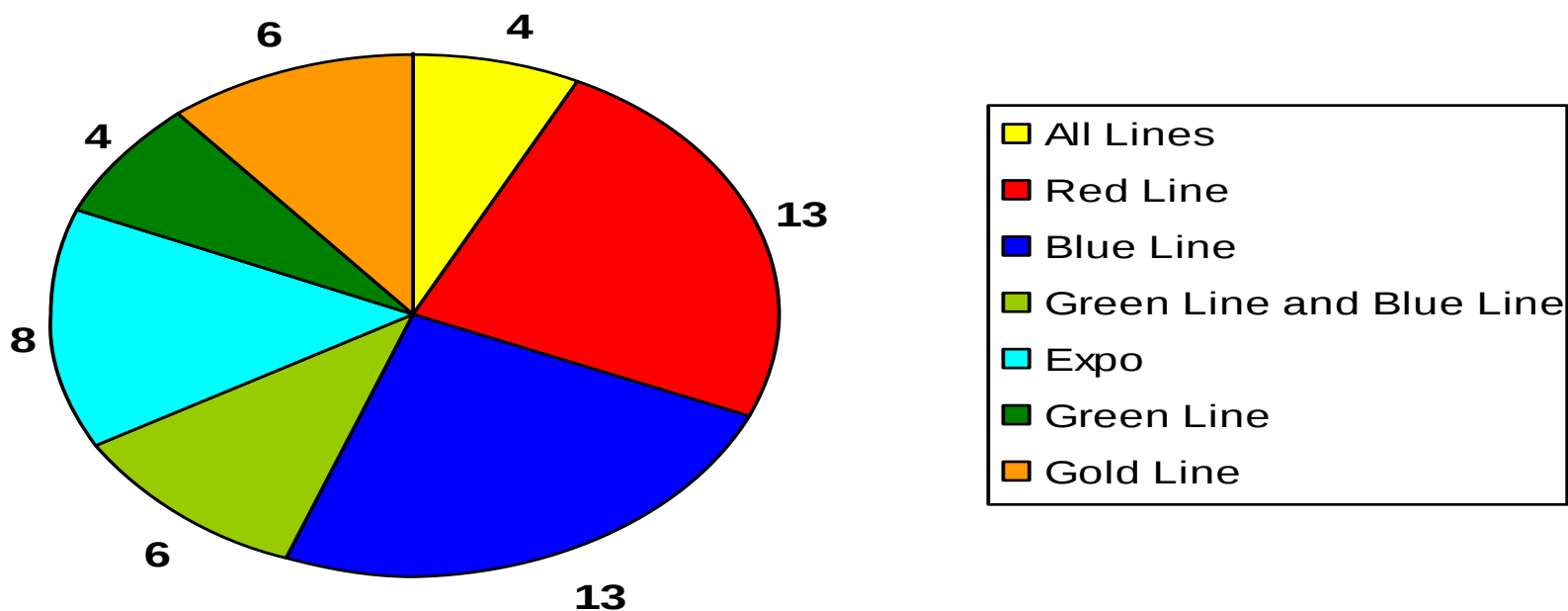


Details of specifications are available upon request.

Rail Vehicle Engineering Project Summary (cont'd)

February 2014

Engineering Projects 100% Completion - Total of 54 February 2014

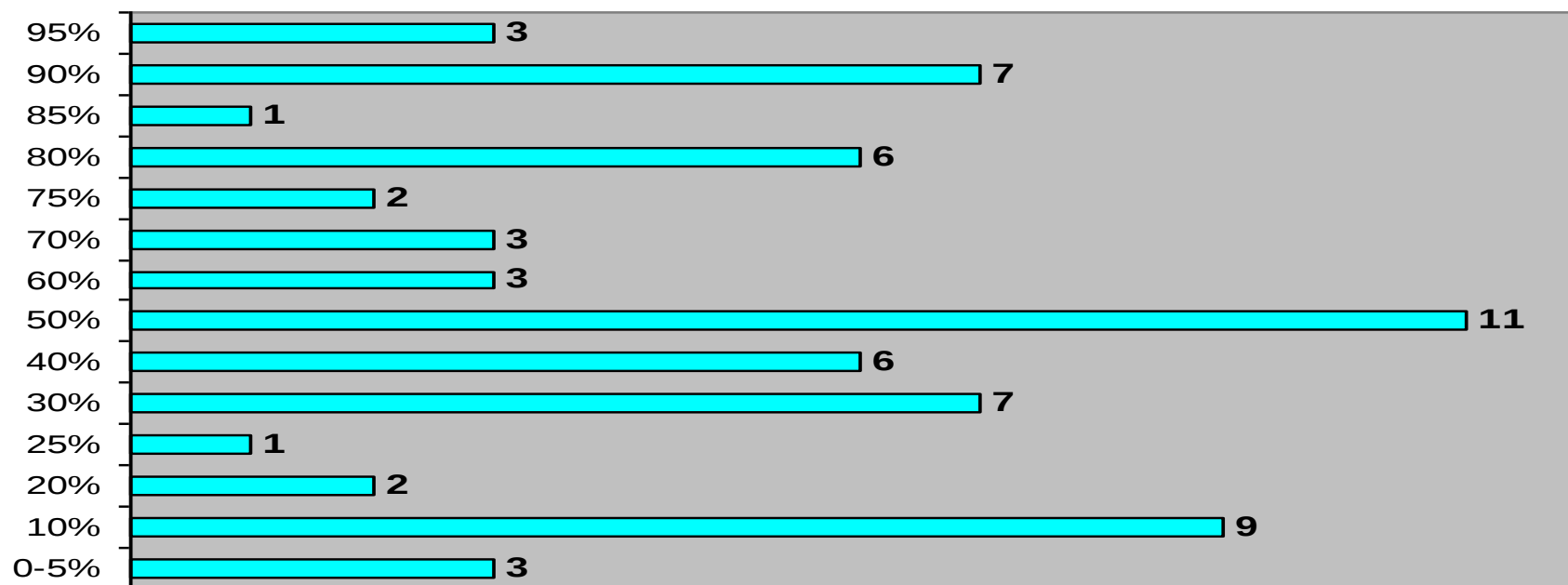


Details of projects are available upon request.

Rail Vehicle Engineering Project Summary (cont'd)

February 2014

Engineering Projects Less than 100% Completion - Total of 64 - All Lines February 2014



Details of projects are available upon request.

QA-Warranty Activities

February 2014

- QA PMI Audits, Spot Checks, Unannounced Audits performed (29)
- On-Going, P2550 parts tracking: Contract Spares, Capital Spares status to ABI
- P2550 Loaned Parts – 38 line items
- On-Going, Division Warranty Parts Claims Processing
- P2550 Traction Motor Junction Box Overheated lugs repairs in progress
- P2550 Support of analog converter valves
- P2550 (Lamellar Seal) Truck Resilient Pin Bushing fleet failure declared (Action pending ABI)
- P2550 50 of 50 Cars have new profile connection beam installed. 26 of 50 Cars with replacement resilient pins and bushings and connection beam.
- A650 Base Buy & Option Car Fleet Warranty Truck Frame Mod Campaign (153 of 216 Trucks modified to date). MRL Warranty Cost Avoidance savings accrued to date \$2.29 million.
- MBL SmartDrive test installation of 25 vehicles complete
- MBL journal bearing replacement “C” truck program in progress
- MBL LED Destination sign program/ Modified Controller replacement in progress
- MBL/MGL Support of P2000 Air Compressor/ Air dryer
- 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

February 2014

Training classes completed during the month of February 2014

Description	Course Hours	Student Count	Training Hours
<u>Blue & Expo Line Training - (P865/2020 & P2000 LRV):</u>			
RFS PROTRAN1 TRAINING	1	1	1
WAYSIDE WORKER PROTECTION	4	1	4
RFS 865/2020 DOOR CONTROL SYS.	56	6	336
RFS 865/2020 COUPLER	8	6	48
RFS 865/2020 PANTOGRAPH	8	6	48
RFS 865/2020 CAR BODY	8	6	48
RFS 865/2020 LVPS & BATTERY	8	7	56

Total Blue Line Training (Hours): 541

Red Line Training (Breda A650 HRV):

RFS BRED A 650 CURRENT COLLECT	8	7	56
REFRIGERANT RECOVERY SYSTEMS (608)	16	6	96
RFS BRED A 650 HVAC REFRESHER	24	8	192
RFS BRED A 650 HVAC	64	8	512

Total Red Line Training (Hours): 856

Gold Line Training (P2550 LRVs):

RFS ANSALDOBREDA 2550 PANTOGRAPH/HIGH VOLTAGE DIS	40	3	120
RFS ANSALDOBREDA 2550 VEHICLE SYSTEMS	40	4	160
RFS 2-WEEK RAIL INTRODUCTION	80	2	160

Total Gold Line Training (Hours): 440

Total RFS Instruction for the month of February 2014 (Hours): 1,837

Other Instruction Activities

Instructor Holidays	40
P865/P2020 Vehicle Course Preparation	32
A650 Vehicle Course Preparation	32
P2550 Vehicle Course Preparation	32
Hegenschiedt Wheel Lathe Powerpoint & Lesson Plan	120

Total Other Instruction Activities 256.0

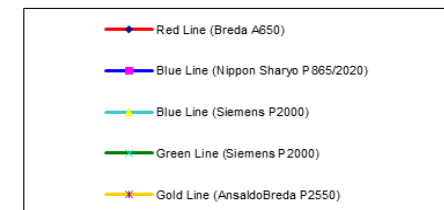
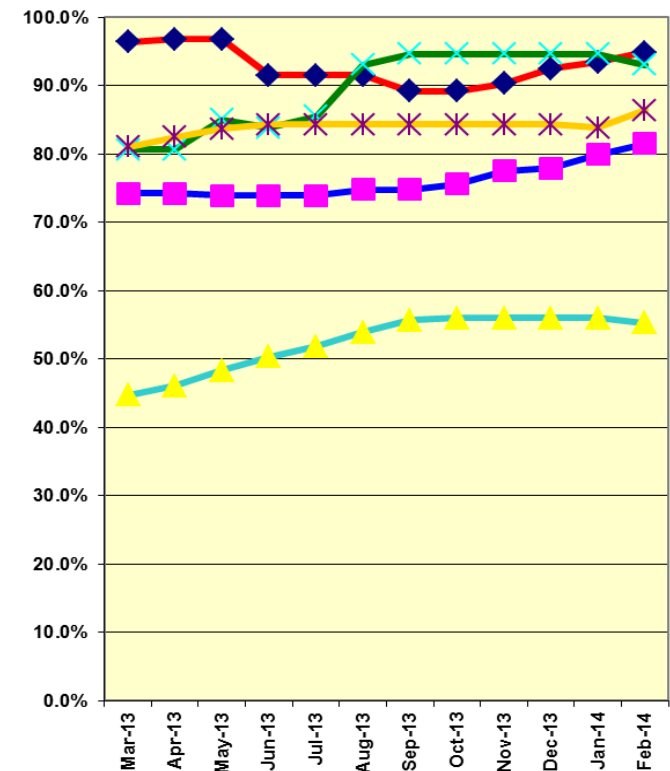
Core Vehicle Training Completed: BLUE RED GREEN GOLD

Percentage of core vehicle training complete: 81.5% 94.9% 93.0% 86.4%

Siemens P2000 training complete: 55.3% N/A N/A N/A

Average Specialist Rail Experience Level in Years: 11.8 10.0 10.7 10.2

Core Training Completed



Variations caused by new hires, employee transfers, & training completed