



Rail Fleet Services Monthly Report January 2013

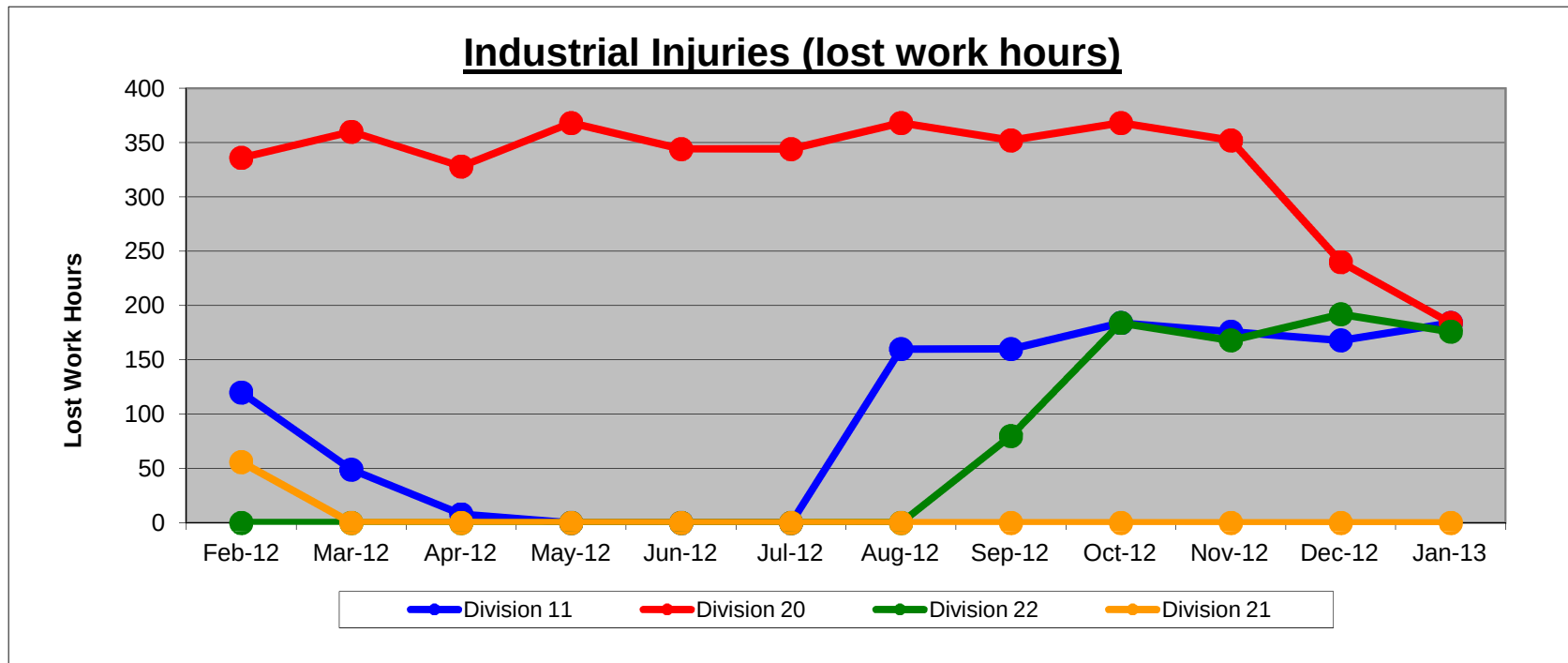


Metro

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Industrial Injuries – Lost Work Hours January 2013



	Feb-12	Mar-12	Apr-12	May-12	Jun-12	Jul-12	Aug-12	Sep-12	Oct-12	Nov-12	Dec-12	Jan-13	Year to Date
Division 11	120	49	8	0	0	0	160	160	184	176	168	184	1,209
Division 20	336	360	328	368	344	344	368	352	368	352	240	184	3,944
Division 22	0	0	0	0	0	0	0	80	184	168	192	176	800
Division 21	56	0	0	0	0	0	0	0	0	0	0	0	56
Totals	512	409	336	368	344	344	528	592	736	696	600	544	6,009

Rail Vehicle Accidents & Major Incidents

January 2013

Repair Costs	Feb-12	Mar-12	Apr-12	May-12	Jun-12	Jul-12	Aug-12	Sep-12	Oct-12	Nov-12	Dec-12	Jan-13	Totals
Blue/Expo Line	\$5,087	\$18,570	\$2,675	\$1,718	\$1,186	\$674	\$8,226	\$4,726	\$1,668	\$494	\$5,262	\$18,740	\$69,026
Red/Purple Line	\$0	\$0	\$1,115	\$571	\$0	\$0	\$0	\$778	\$0	\$0	\$0	\$2,244	\$4,708
Green Line	\$0	\$0	\$989	\$0	\$0	\$120	\$0	\$0	\$0	\$0	\$503	\$202	\$1,814
Gold Line	\$0	\$4,134	\$0	\$0	\$752	\$0	\$1,583	\$0	\$0	\$0	\$0	\$176	\$6,645
Totals	\$5,087	\$22,704	\$4,779	\$2,289	\$1,938	\$794	\$9,809	\$5,504	\$1,668	\$494	\$5,765	\$21,362	\$82,193

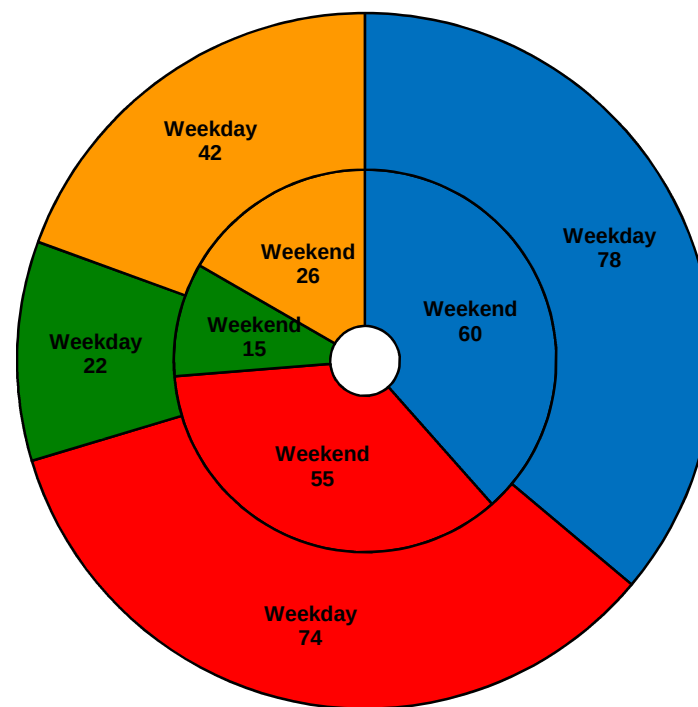
Rail Vehicle Accident Costs - January 2013				
Metro Blue Line				
Date	Incident #	Problem code	Incident Description	Cost
1/11/2013	2272666	Train vs. Pedestrian	A 10-72 was reported with Train 12 at Vernon Station heading southbound on track 2.	\$847.99
1/25/2013	2277992	Train vs. Object	A 10-71 was reported involving a broken windshield on Train17 heading southbound at Pico Station on track 2.	\$212.45
1/26/2013	2278261	Train vs. Vehicle	A 10-73 involving Train 3 was reported entering Pacific Station.	\$128.81
1/28/2013	2278726	Derailment	A derailment occurred involving Train 8 at Promenade switch.	\$17,550.96
				\$18,740.21
Expo Line				
1/19/2013	2275562	Train vs. Vehicle	A 10-73 was reported heading southbound at Flower and 18th Street.	\$0.00
1/19/2013	2275581	Train vs. Vehicle	Refer to Incident 2275562 for 10-73 information. Incident was generated to notate the delays in which the Expo Line was affected as a result of referenced incident.	\$0.00
				\$0.00
Metro Gold Line				
1/15/2013	2273753	Train vs. Object	A 10-71 occurred with Train 3 and a sign at Little Tokyo Station on track 1.	\$0.00
1/23/2013	2277092	Train vs. Object	A 10-71 occurred with Train 14 being struck with a piece of concrete being place on the track at Avenue 56.	\$176.48
				\$176.48
Metro Green Line				
1/14/2013	2273415	Train vs. Object	A 10-71 occurred with Train 32 heading westbound at Vermont Station. It was reported that a person threw a bike on the platform (track 1) and train was unable to stop on time to avoid the object.	\$201.51
				\$201.51
1/25/2013	2277743	Train vs. Pedestrian	A 10-72 was reported involving Train 35 headed eastbound at Hollywood and Western.	\$2,244.18
				\$2,244.18
				GRAND TOTAL \$21,362.38
(10-71) = Train vs. Object, (10-72) = Train vs. Pedestrian, (10-73) = Train vs. Vehicle (10-74) = Train vs. MTA Vehicle, (10-75) = Derailment				



Metro

Service Delivery January 2013

Blue/Expo Line Fleet Size: 92			
	<u>Vehicles</u>	<u>Average</u>	<u>% Up</u>
<u>Pull Out</u>	<u>Required</u>	<u>Available</u>	<u>(Down)</u>
Weekday:	78	80	102%
Weekend:	60	68	113%
Late Pullouts: 0 *			
Monthly Mileage:	643,544		
Red/Purple Line Fleet Size: 104			
	<u>Vehicles</u>	<u>Average</u>	<u>% Up</u>
<u>Pull Out</u>	<u>Required</u>	<u>Available</u>	<u>(Down)</u>
Weekday:	74	81	109%
Weekend:	55	68	123%
Late Pullouts: 0 *			
Monthly Mileage:	646,844		
Green Line Fleet Size: 29			
	<u>Vehicles</u>	<u>Average</u>	<u>% Up</u>
<u>Pull Out</u>	<u>Required</u>	<u>Available</u>	<u>(Down)</u>
Weekday:	22	23	105%
Weekend:	15	18	120%
Late Pullouts: 0 *			
Monthly Mileage:	237,219		
Gold Line Fleet Size: 50			
	<u>Vehicles</u>	<u>Average</u>	<u>% Up</u>
<u>Pull Out</u>	<u>Required</u>	<u>Available</u>	<u>(Down)</u>
Weekday:	42	44	104%
Weekend:	26	43	164%
Late Pullouts: 0 *			
Monthly Mileage:	298,807		



■ Blue/Expo Line	■ Red/Purple Line
■ Green Line	■ Gold Line

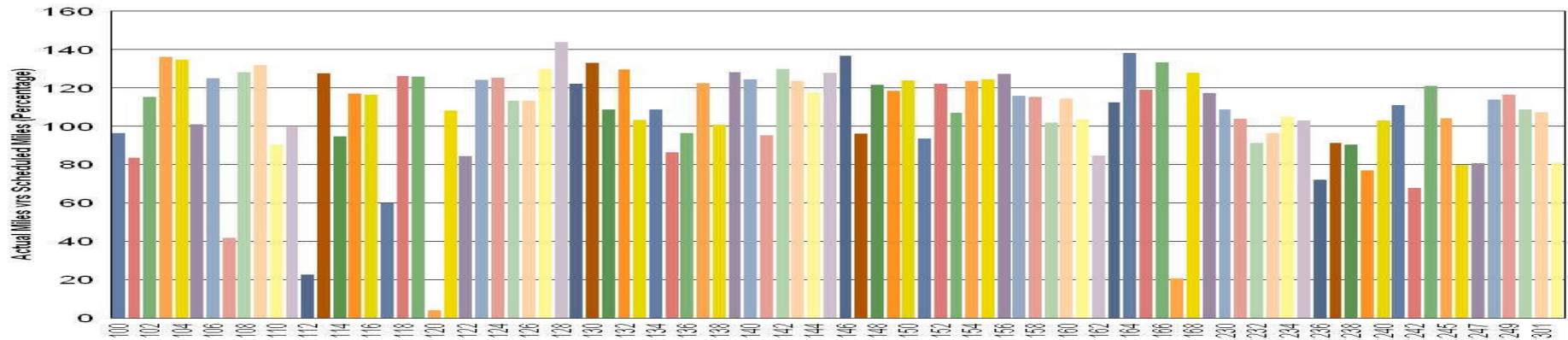


Metro

* Due to a vehicle -related problem

Vehicle Utilization January 2013

Metro Blue/Expo Line Fleet



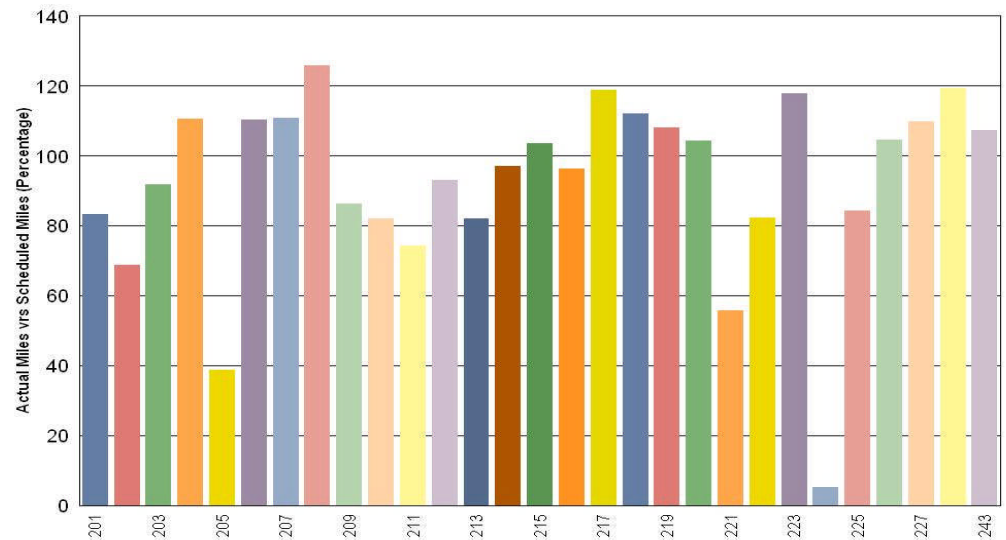
Blue/Expo Lines:

- 112 Vehicle held out of service due to interior graffiti abatement work and serviced for open work orders.
- 120 Vehicle held out of service due to friction brake issues. RFS and Rail Engineering are troubleshooting corrective options.
- 167 Vehicle held out of service for intermittent friction brake faults and for 60k major inspection.

Green Line:

- 205 Vehicle held out of service due to short in the Coupler Dum switch which was repaired. Vehicle is undergoing a friction brake overhaul.
- 224 Vehicle held out of service due to a propulsion fault that is currently being reviewed.

Metro Green Line



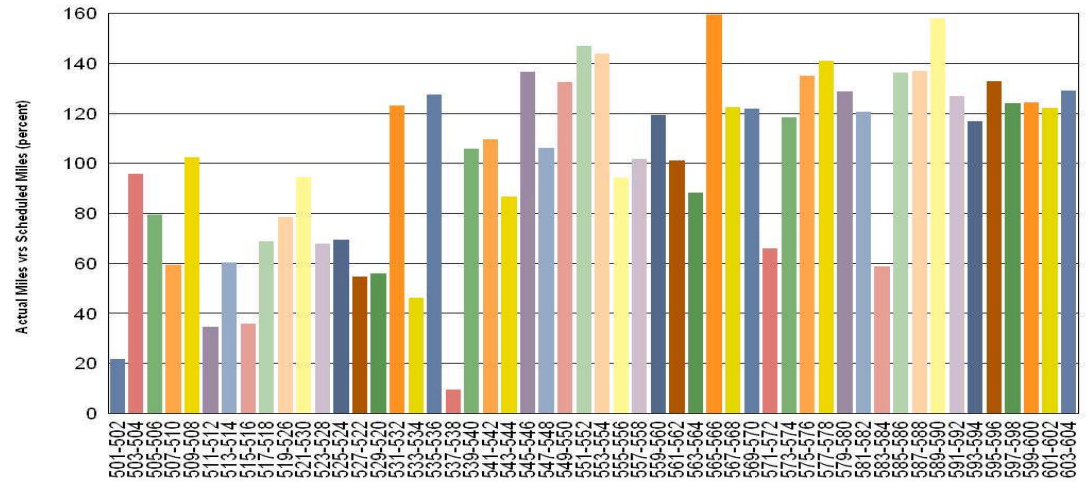
Vehicle Utilization January 2013

Red/Purple Lines:

Explanation for under-used vehicles:

- 501-502 Vehicle held out of service due to truck replacement.
- 511-512 Vehicle held out of service due to propulsion issues and dynamic brake problems.
- 515-516 Vehicle held out of service due to truck replacement.
- 537-538 Vehicle held out of service due to propulsion fault and GTO replacement.

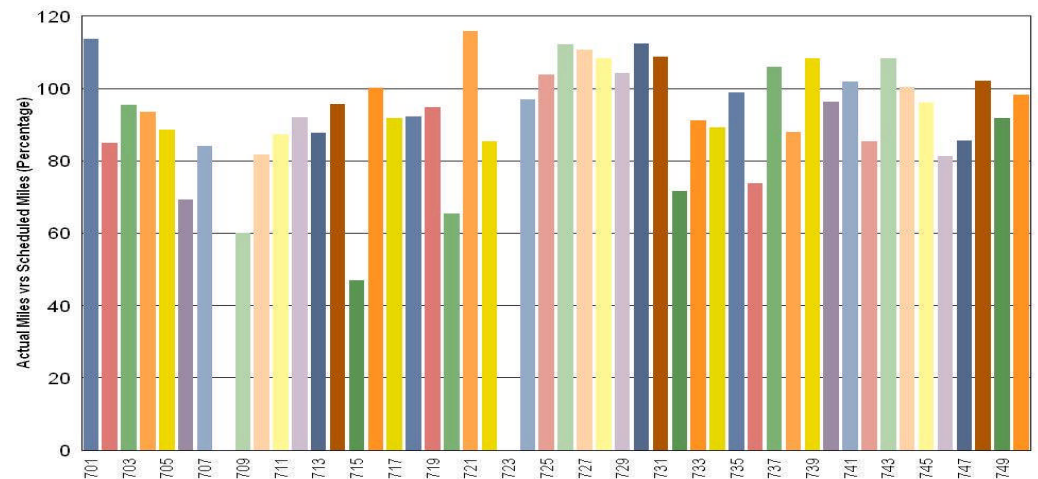
Metro Red/Purple Lines



Gold Line:

- 708 Vehicle held out of service due to a major high speed coupler failure. Corrective action is being reviewed by project team and contractor.
- 723 Vehicle held out of service due to burned HVAC contactor and wiring. Parts remain under warranty. Staff is currently awaiting parts.

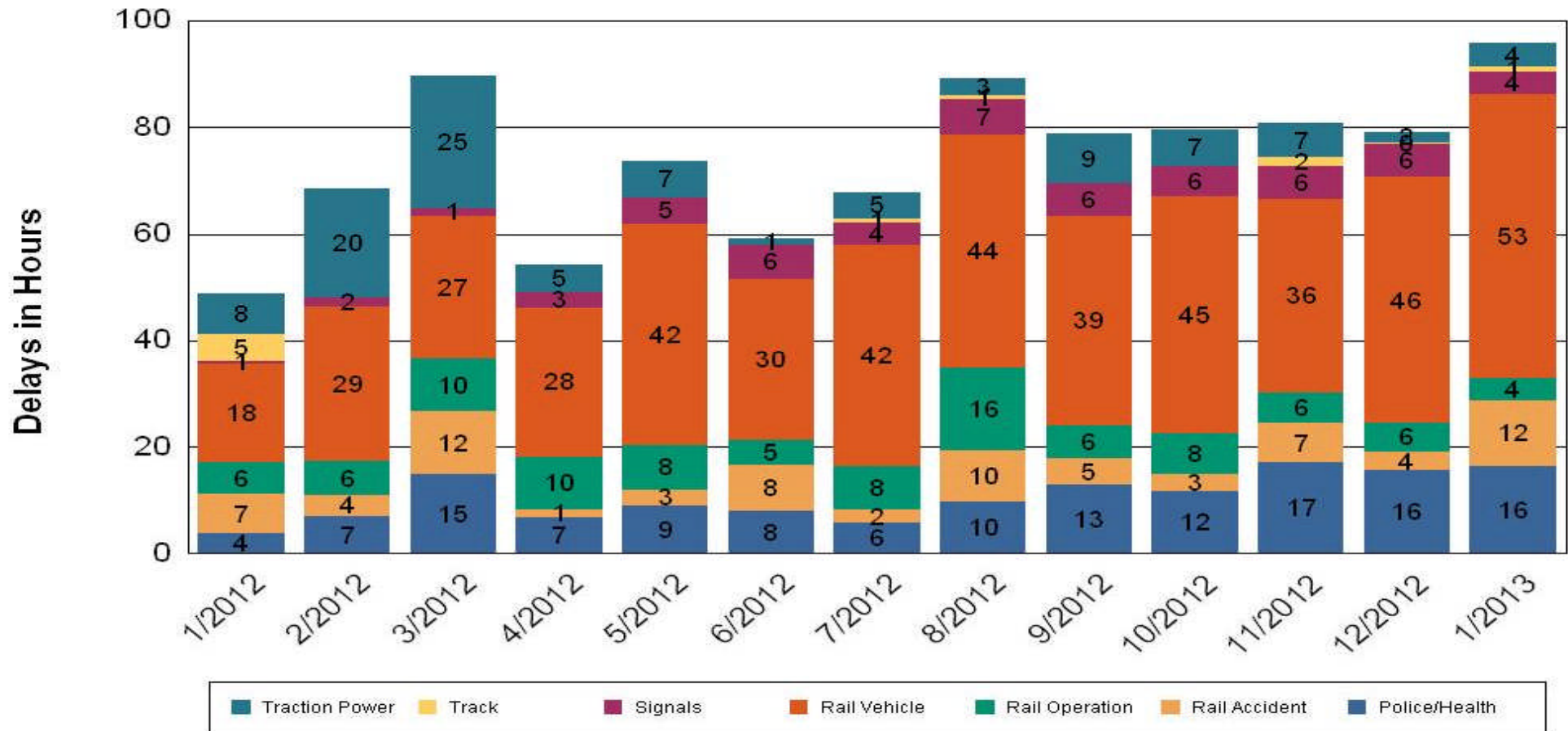
Metro Gold Line



All Train Delay Incidents January 2013

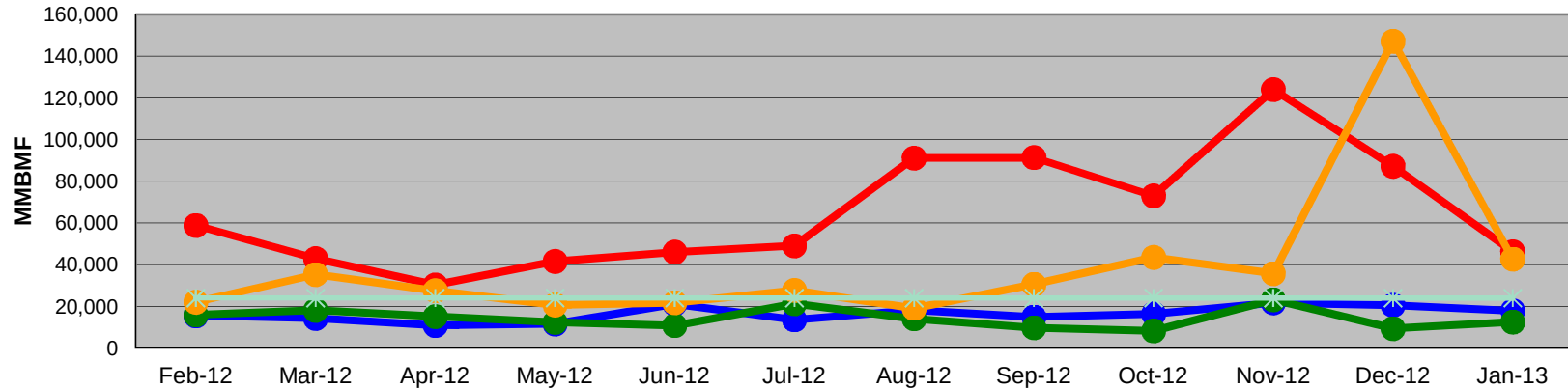
All Train Delays

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



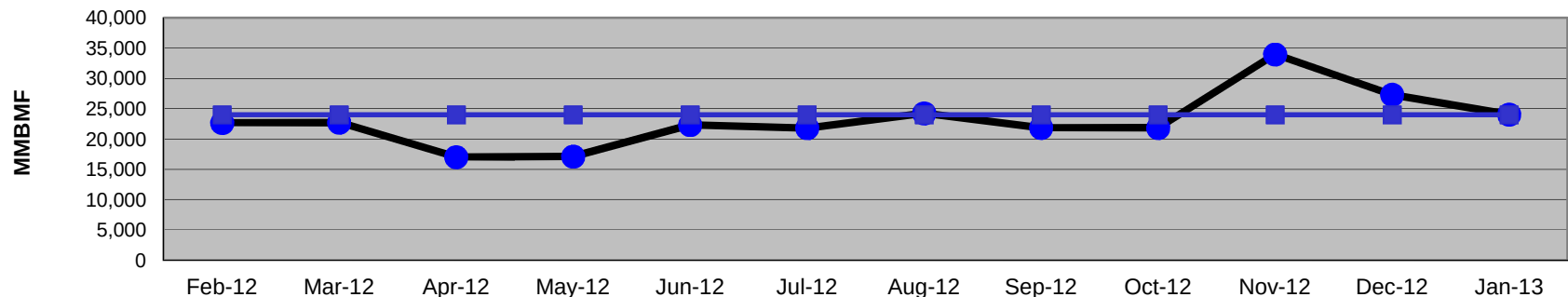
Mean Miles Between Failures (Major) Year to Date

Mean Miles Between Major Failures (12 months)



	Feb-12	Mar-12	Apr-12	May-12	Jun-12	Jul-12	Aug-12	Sep-12	Oct-12	Nov-12	Dec-12	Jan-13
Blue/Expo Lines	15,454	14,216	10,803	11,546	21,129	13,559	18,185	14,867	16,391	21,686	20,542	17,876
Red/Purple Lines	58,828	42,883	30,255	41,539	46,006	49,022	91,119	91,340	72,959	123,933	87,167	46,203
Green Line	15,895	18,092	15,108	12,342	10,775	21,266	14,043	9,726	8,243	23,154	9,341	12,485
Gold Line	21,981	35,279	27,526	20,649	21,726	27,641	19,040	30,564	43,461	35,725	147,123	42,687
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

Mean Miles Between Major Failures (all)

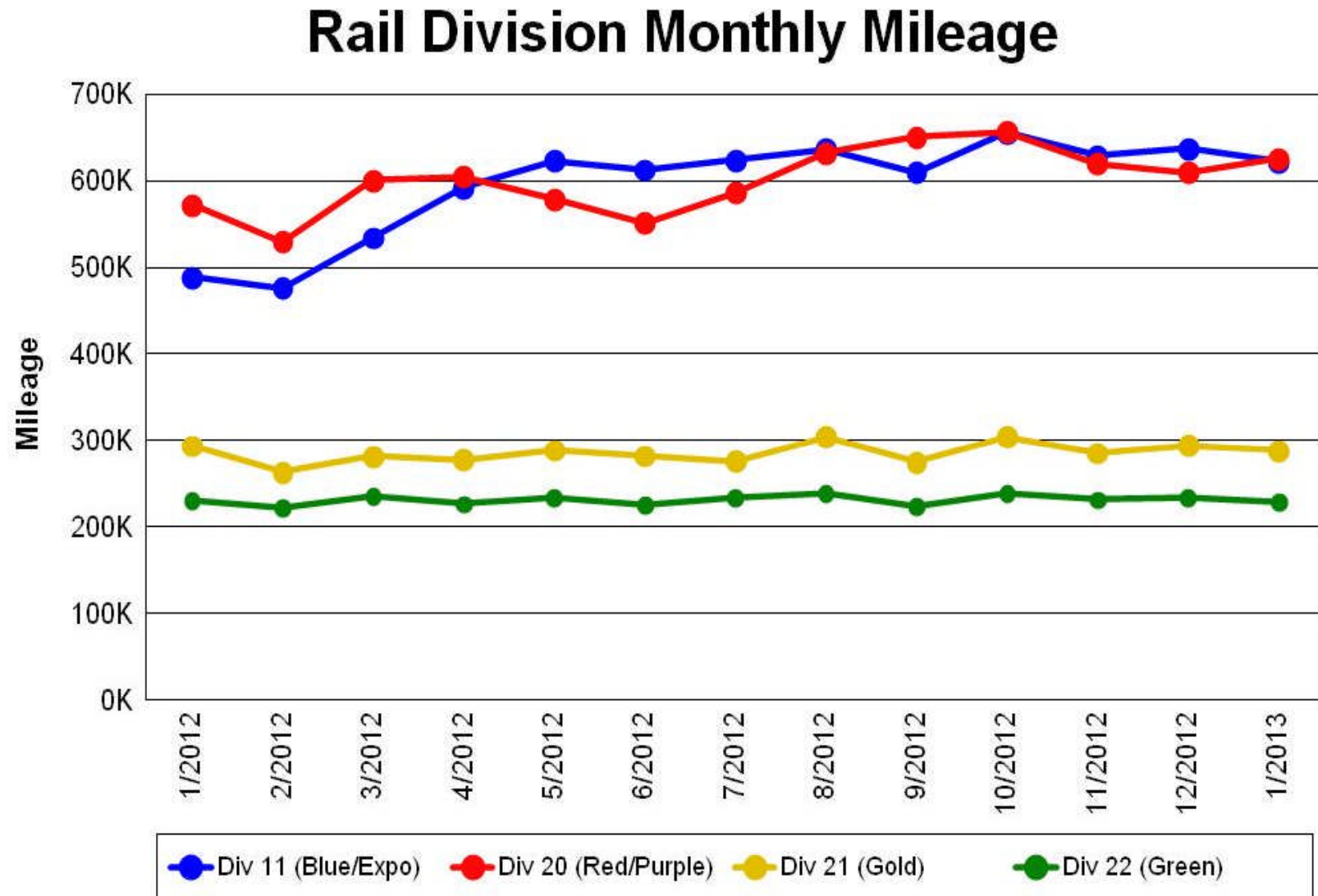


	Feb-12	Mar-12	Apr-12	May-12	Jun-12	Jul-12	Aug-12	Sep-12	Oct-12	Nov-12	Dec-12	Jan-13
All Rail	22,649	22,712	17,011	17,115	22,314	21,802	24,236	21,846	21,830	33,960	27,304	24,032
Goal	24,000	24,000	24,000	24,000	24,000	24,000	24,000	24,000	24,000	24,000	24,000	24,000



Mileage Between Data Range (by month)

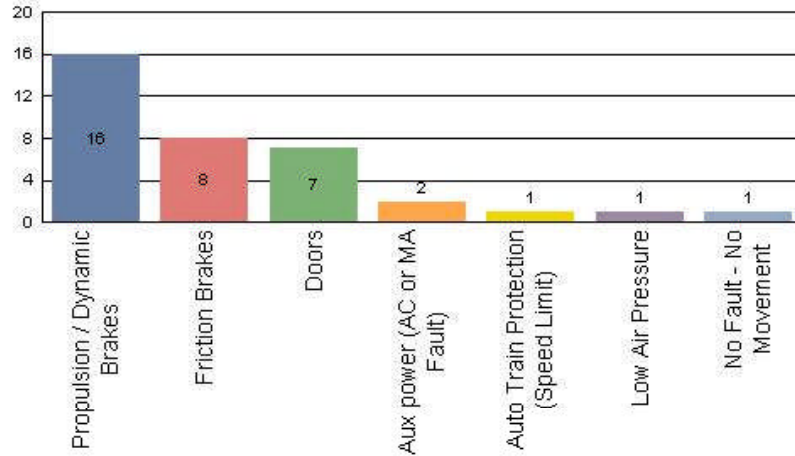
January 2013



Major Incidents January 2013

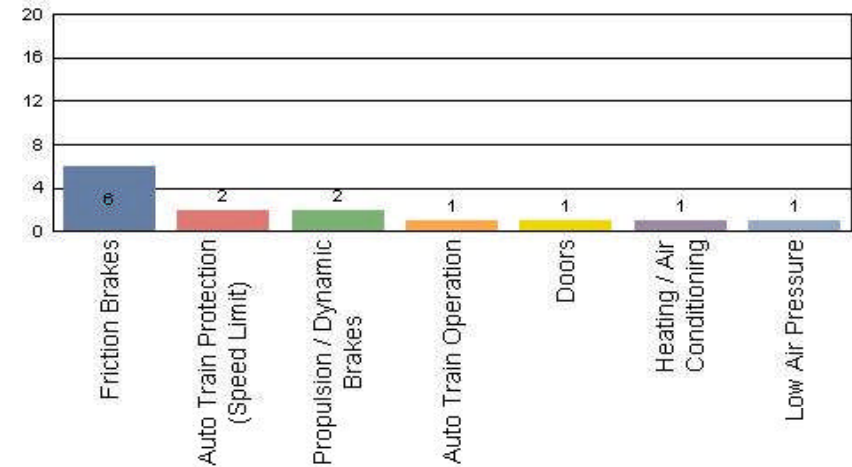
Metro Blue/Expo Line

Top Incident Categories



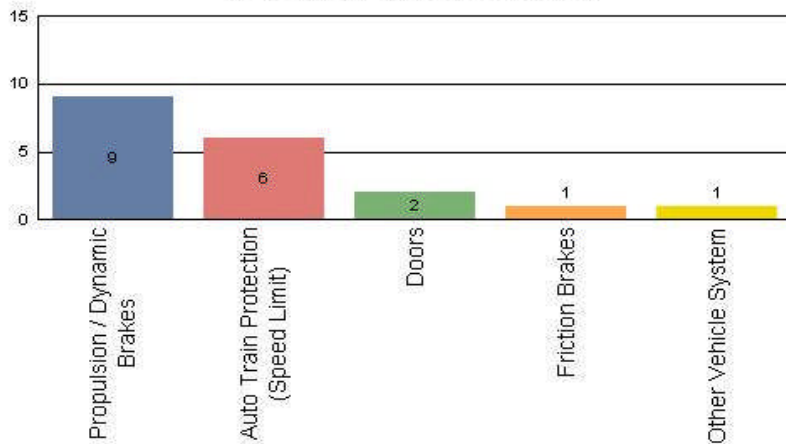
Metro Red/Purple Line

Top Incident Categories



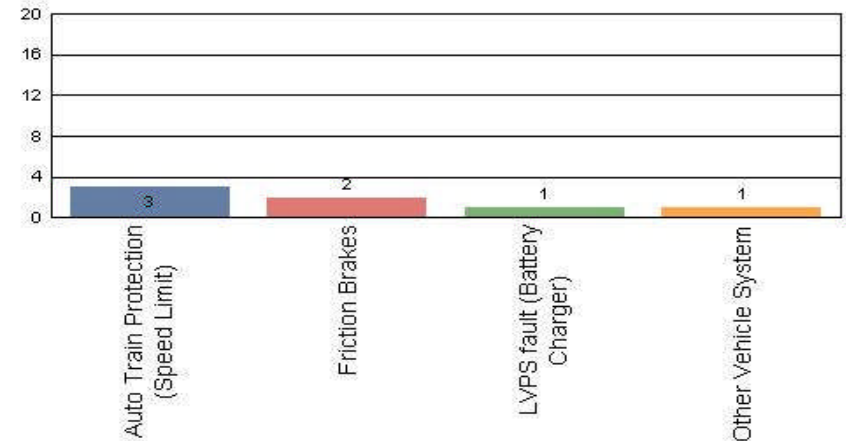
Metro Green Line

Top Incident Categories



Metro Gold Line

Top Incident Categories



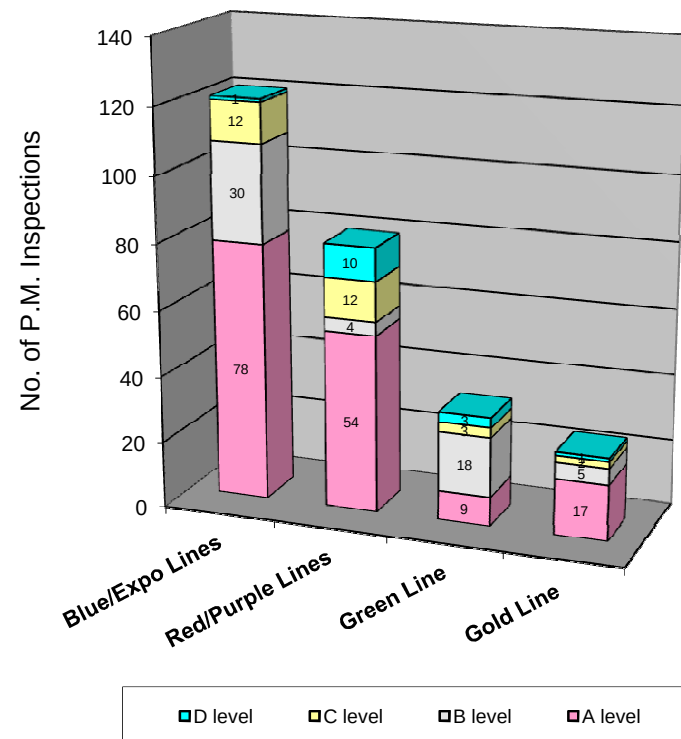
Preventive Maintenance Compliance

January 2013

PM Compliance	Feb-12	Mar-12	Apr-12	May-12	Jun-12	Jul-12	Aug-12	Sep-12	Oct-12	Nov-12	Dec-12	Jan-13
Blue/Expo Lines	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	*99%
Red/Purple Lines	100%	100%	100%	100%	100%	100%	*98%	100%	100%	100%	100%	100%
Green Line	100%	100%	100%	100%	96%	100%	100%	100%	100%	100%	100%	100%
Gold Line	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%

Number of Preventive Maintenance Inspections - January 2013					
Line	A level	B level	C level	D level	Totals
Blue/Expo Lines	78	30	12	1	121
Red/Purple Lines	54	4	12	10	80
Green Line	9	18	3	3	33
Gold Line	17	5	2	1	25
Totals:	158	57	29	15	259

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

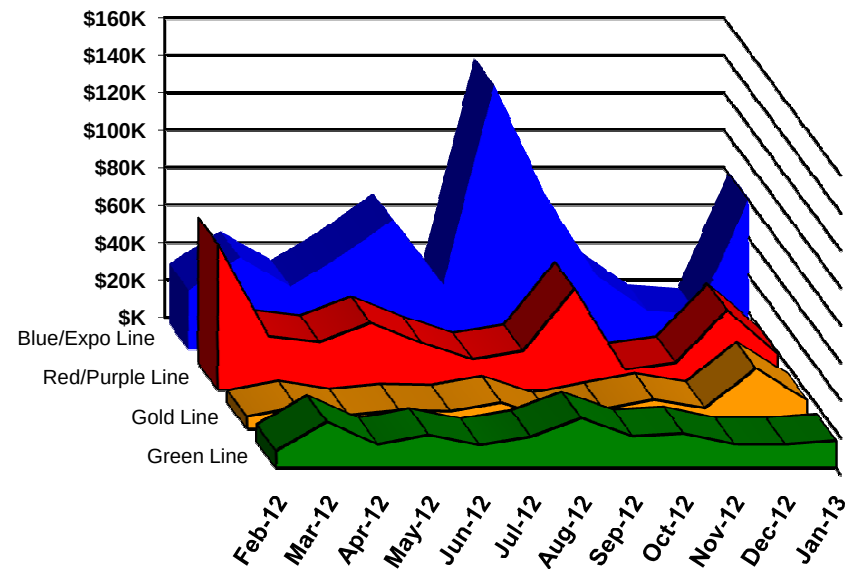


Vandalism & Graffiti Report

January 2013

	Feb-12	Mar-12	Apr-12	May-12	Jun-12	Jul-12	Aug-12	Sep-12	Oct-12	Nov-12	Dec-12	Jan-13	Year-to-Date
Blue/Expo Line	\$32K	\$49K	\$34K	\$50K	\$69K	\$35K	\$142K	\$83K	\$40K	\$21K	\$19K	\$81K	\$655K
Red/Purple Line	\$77K	\$28K	\$25K	\$35K	\$25K	\$16K	\$20K	\$54K	\$10K	\$14K	\$42K	\$19K	\$368K
Green Line	\$9K	\$25K	\$13K	\$18K	\$12K	\$17K	\$27K	\$17K	\$19K	\$13K	\$13K	\$15K	\$197K
Gold Line	\$7K	\$11K	\$7K	\$10K	\$9K	\$14K	\$5K	\$11K	\$15K	\$11K	\$32K	\$15K	\$149K
Totals:	\$125K	\$114K	\$79K	\$113K	\$116K	\$82K	\$194K	\$165K	\$84K	\$59K	\$106K	\$130K	\$1,368K

January 2013 Vandalism & Graffiti - All Rail				
	Qty	Labor	Materials	Totals
Windows replaced	211	\$15,750	\$29,350	\$45,100
Vandal Shields	333	\$10,081	\$5,024	\$15,105
Seats Cleaned	713	\$2,605	\$0	\$2,605
Seats Replaced	496	\$15,625	\$18,538	\$34,163
Graffiti removal - other	894	\$12,852	\$885	\$13,737
Repainting panels	17	\$16,439	\$2,814	\$19,253
Totals	2,664	\$73,352	\$56,611	\$129,963



Graffiti Pictures January 2013

Blue Line



Green Line



Gold Line

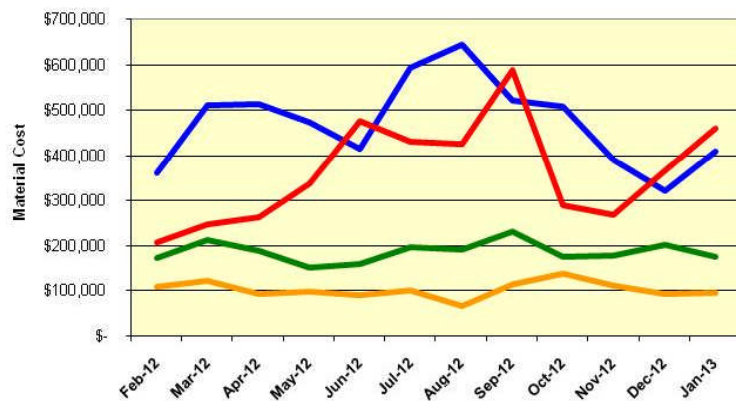


Material and Labor Costs

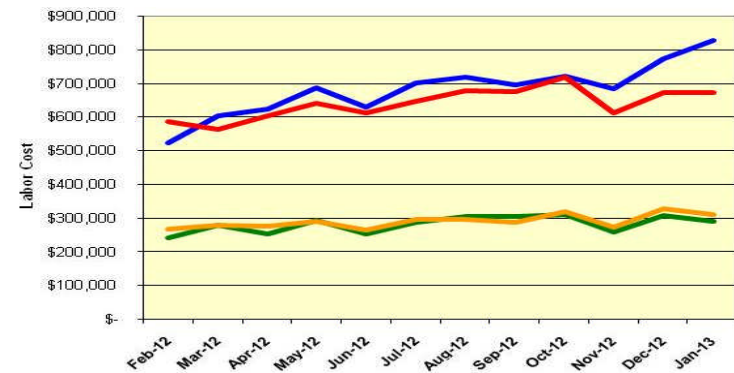
January 2013

<u>MATERIALS</u>	Feb-12	Mar-12	Apr-12	May-12	Jun-12	Jul-12	Aug-12	Sep-12	Oct-12	Nov-12	Dec-12	Jan-13
Blue/Expo Lines	\$ 359,911	\$ 510,512	\$ 511,185	\$ 473,281	\$ 414,601	\$ 591,928	\$ 643,006	\$ 520,023	\$ 506,591	\$ 388,758	\$ 320,127	\$ 407,585
Red/Purple Lines	\$ 205,225	\$ 244,902	\$ 260,532	\$ 335,824	\$ 474,908	\$ 428,864	\$ 424,173	\$ 587,362	\$ 289,365	\$ 265,900	\$ 365,489	\$ 458,038
Green Line	\$ 172,152	\$ 210,220	\$ 186,572	\$ 149,660	\$ 157,920	\$ 194,003	\$ 189,811	\$ 230,008	\$ 174,361	\$ 175,923	\$ 200,257	\$ 173,693
Gold Line	\$ 106,736	\$ 121,821	\$ 91,218	\$ 98,407	\$ 88,885	\$ 98,449	\$ 64,112	\$ 112,270	\$ 138,235	\$ 111,198	\$ 90,479	\$ 95,355
Totals	\$ 844,024	\$ 1,087,455	\$ 1,049,507	\$ 1,057,172	\$ 1,136,314	\$ 1,313,244	\$ 1,321,102	\$ 1,449,663	\$ 1,108,552	\$ 941,779	\$ 976,352	\$ 1,134,671

Material Costs



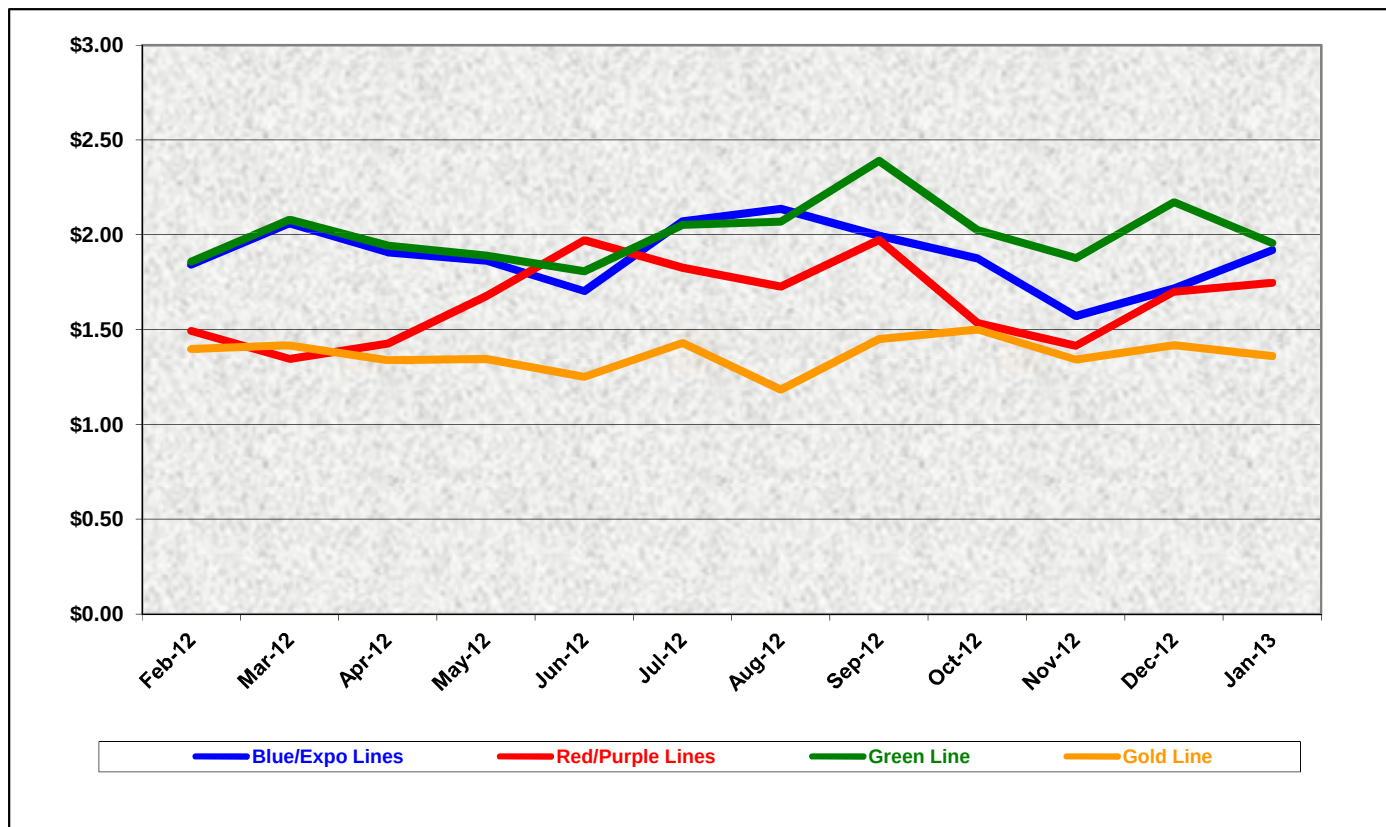
Labor Costs



<u>LABOR</u>	Feb-12	Mar-12	Apr-12	May-12	Jun-12	Jul-12	Aug-12	Sep-12	Oct-12	Nov-12	Dec-12	Jan-13
Blue/Expo Lines	\$ 522,603	\$ 601,905	\$ 622,113	\$ 687,897	\$ 628,928	\$ 699,849	\$ 716,987	\$ 695,926	\$ 722,379	\$ 683,896	\$ 772,382	\$ 827,656
Red/Purple Lines	\$ 584,940	\$ 562,875	\$ 602,434	\$ 639,102	\$ 613,032	\$ 645,748	\$ 676,501	\$ 674,192	\$ 718,139	\$ 610,872	\$ 671,039	\$ 671,792
Green Line	\$ 241,042	\$ 278,653	\$ 253,643	\$ 293,492	\$ 251,094	\$ 286,110	\$ 304,066	\$ 304,487	\$ 309,399	\$ 258,637	\$ 306,761	\$ 290,453
Gold Line	\$ 267,372	\$ 277,944	\$ 276,975	\$ 290,375	\$ 264,536	\$ 296,565	\$ 296,078	\$ 286,489	\$ 318,284	\$ 272,259	\$ 326,736	\$ 311,060
Totals	\$ 1,615,957	\$ 1,721,377	\$ 1,755,165	\$ 1,910,866	\$ 1,757,590	\$ 1,928,272	\$ 1,993,632	\$ 1,961,094	\$ 2,068,201	\$ 1,825,664	\$ 2,076,918	\$ 2,100,961

Cost Per Mile January 2013

Cost per mile:	Feb-12	Mar-12	Apr-12	May-12	Jun-12	Jul-12	Aug-12	Sep-12	Oct-12	Nov-12	Dec-12	Jan-13	Average
Blue/Expo Lines	\$1.84	\$2.06	\$1.91	\$1.86	\$1.70	\$2.07	\$2.14	\$1.99	\$1.87	\$1.57	\$1.72	\$1.92	\$1.89
Red/Purple Lines	\$1.49	\$1.35	\$1.43	\$1.68	\$1.97	\$1.83	\$1.73	\$1.97	\$1.53	\$1.41	\$1.70	\$1.75	\$1.65
Green Line	\$1.86	\$2.08	\$1.94	\$1.89	\$1.81	\$2.05	\$2.07	\$2.39	\$2.02	\$1.88	\$2.17	\$1.96	\$2.01
Gold Line	\$1.40	\$1.42	\$1.34	\$1.34	\$1.25	\$1.43	\$1.18	\$1.45	\$1.50	\$1.34	\$1.42	\$1.36	\$1.37



No facility costs are included

ATU Absences vs. Overtime

January 2013

ABSENCE TYPE and HOURS	3940 Admin.	3941 Blue	3942 Red	3943 Green	3944 Gold	3947 Expo	Total
AWP-ABSENT W/O PERMISSION	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BER-BEAVEMENT	0.00	0.00	88.00	80.00	0.00	0.00	168.00
CTO-COMPENSATORY TIME OFF	0.00	285.00	262.00	160.00	177.98	38.50	923.48
CUT-EMPLOYEE LEAVES EARLY	0.50	0.99	0.02	1.47	0.95	0.00	3.93
CVA - CASUAL VACATION	0.00	52.00	116.00	0.00	172.00	0.00	340.00
DSL-DISABILITY LEAVE/LONG	0.00	888.00	184.00	176.00	360.00	0.00	1,608.00
EFH-EMG. FLOAT HOL.	0.00	0.00	24.00	0.00	8.00	0.00	32.00
ETO-EXCUSED TIME OFF	11.00	46.50	28.77	5.00	63.68	1.00	155.95
FMI-FAM IND INJURY	0.00	0.00	16.00	0.00	0.00	0.00	16.00
FML-FAMILY CARE LEAVE	0.00	452.00	304.00	72.00	184.00	0.00	1,012.00
FMS-FAMILY LEAVE SICK	0.00	112.00	193.10	16.00	0.00	0.00	321.10
HLF-HOLIDAY FLOATING	0.00	248.00	176.00	64.00	128.00	8.00	624.00
HNP-HOLIDAY NOT PAID	0.00	32.00	0.00	24.00	0.00	0.00	56.00
HOL-HOLIDAY LEGAL	32.00	448.00	472.00	104.00	48.00	32.00	1,136.00
II-INDUSTRIAL INJURY	0.00	0.00	184.00	176.00	0.00	0.00	360.00
IIR-INDUS INJURY-REOCCUR.	0.00	184.00	0.00	0.00	0.00	0.00	184.00
JUR-JURY DUTY	0.00	104.00	16.00	16.00	8.00	0.00	144.00
LC1-LABOR CODE 233	0.00	346.00	286.84	212.00	224.00	0.00	1,068.84
MLN-MILITARY ABSENCE-UNPAID	0.00	0.00	32.00	0.00	0.00	0.00	32.00
OWP-OFF WITH PERMISSION	0.00	0.00	16.00	0.00	2.50	0.00	18.50
RTO-REQUESTED TIME OFF-NO PA	0.00	62.50	0.00	16.00	0.00	0.00	78.50
SCK-SICK PAY	0.00	288.00	144.00	184.00	126.00	0.00	742.00
SCW-SICK WITHOUT PAY	0.00	96.00	40.00	80.00	96.00	0.00	312.00
TAR-TARDY	0.00	1.19	2.20	1.17	0.45	0.00	5.01
VAC-VACATION	8.00	668.50	556.00	148.00	40.00	0.00	1,420.50
VAS-VACATION WHILE SICK	0.00	75.60	0.00	0.00	0.00	0.00	75.60
Total Absence Hours	52	4,390	3,141	1,536	1,640	80	10,837
ATU Number of Work Force (assigned)	5	120	110	46	49	8	338
Full Work Force hours/month	867	20,796	19,063	7,972	8,492	1,386	58,575
Absence as a % of Work Force	6%	21%	16%	19%	19%	6%	19%
OVERTIME TYPE and HOURS	3940	3941	3942	3943	3944	3947	Total
CTB-COMPENSATORY TIME TO BANK	0	146	177	97	51	28	499
OTP-PREM OVERTIME	442	5498	4802	1109	1129	131	13111
WLO-Worked Lunch Overtime	19	143	195	92	82	12	542
Total	461	5787	5174	1298	1262	171	14152
Overtime as a % of Work Force	53%	28%	27%	16%	15%	12%	24%
UNCOVERED ABSENCES	3940	3941	3942	3943	3944	3947	Total
Absences FTE	0	25	18	9	9	0	63
OTP FTE	3	33	30	7	7	1	82
FTE Difference	-3	-8	-12	2	2	-1	-19



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Note: Overtime also covers other required activities.

Rail Vehicle Engineering Project Summary

January 2013

Preparation of Engineering Technical Specifications	Tracking #	Status
Red Line AC Gear Box (Rev. 0)	A650/TS/026	IFB 12-0024 in process
MBL Battery Set	P865/P2020/TS/069	Draft in review
Vital Relay Calibration P865/P2020	Sole Source	In Process by Procurement
Windows glass and rubber glazing specification	P865-P2020/TS-066	In Process by Procurement
Friction Brake Kit Less Air Compressor Overhaul	P2000/TS/035 Rev 0	Released to Procurement for bid - SS was signed - Awarded to Wabtec
A650 Battery Specification	A650/TS/39	Released to Procurement for bid - Hoppeke delivered 1st article for testing and approval on 02/13/13
Powered Axle Overhaul SOW	P865-P2020/TS/063 and 052	In Process by Procurement
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 - Dealing with Flender as OEM *Competitive bid is In Process by Procurement
Vandal Shield for all lines	A650-P865-P2000-P2550/TS/012	Released to Procurement- Contract awarded
Aux power supply equipment (APSE) - Static Inverter	P865-P2020/TS/065 Rev. 0 [2 Parts]	In Process by Procurement
Tire kit specification	P865-P2020/TS/064	Released to Procurement for bid
Red Line (Base Buy) DC Traction Motor	P650/TS/041	In Process by Procurement
MBL HVAC Compressor	P865/P2020/TS/067 Rev. 0	Released to Procurement for bid - Reply to Bid questions.
Head Sign LED	P2000/TS/xx	Draft in process
Chevron springs	P865/P2020/TS/068 Rev. 0	Released to Procurement for bid - IFB 13-0015 In Process by Procurement
Filter-Fresh Air	P2550/TS/004	In review process
Filter-Return Air	P2550/TS/005	In review process
Chopper Air Filter	P865-P2020/TS/050	Draft in review
Motor Alternator Filter	P865-P2020/TS/051	Draft in review
Inverter Air Filter	A650/TS/036	Draft in review
General - All Lines		Status
Roadway Worker Protection		CPUC/Installing ProTran1 Device-P865/P2020/P2000 completed, A650/P2550 in installation
Fleet Failure Analysis		CH2M Hill - LTK
New Radios installed to replace old radios		Meeting 3/7/2012-Contract awarded, MBL and P2000 completed. A650 in installation process P2550 in prototype completeed.
Bike Space		P2000/P2550/A650 Fleet modification completed.
St. Louis LRV		Testing flooring for fire rating - investigating computability.
P2000 Overhaul Program		Status
Mapping mainline		Conducted mapping the entire line in 2 weeks for ATP/ATO/TWC - Correction made
Master Controller - Bombardier Refurbish		Ongoing Program
RSS and EOSS Bundle Cables/Connectors - Glenair		In Progress - Glenair
TWC Calibration procedure.		TWC calibration procedures completed. Issued and Training completed at Division.
Speed Sensors		Testing new speed sensors from Smith System
Friction Brake failure investigation		Metro technical team with Wabtec (OEM) ongoing investigation.
Coupler Overhaul		In Progress - Spec in developing process for fleet overhaul.



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Rail Vehicle Engineering Project Summary (cont'd)

January 2013

P865/P2020 Program		Status
Remove the remotely reset CB1 Breaker		Fleet modification completed.
"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 completed fleet modification. New antennas are in installation progress.
Under seat - No motion relays		ABB Prototype installed on 07/24/12 for one month test period. Test was successful. In process of procuring kits.
Replace air compressor DC motor with AC motor		Knorr prototype in Modifying 1 unit is received - Scheduling Knorr field visit to install and test on the car.
ATP Antenna investigation		Survey 100% of the fleet - Recommend to replace all ATP antenna. Installed 2 each, new antennas on car 129 and 160. Data on 160 loop test was too high for series old new installation. ALSTOM did not release any antenna schematic or testing procedures.
Cardan Failure Investigation		Lab testing failed components and evaluate those in service - Kar's Lab
A650 Overhaul Program		Status
Investigate car 505/506		Satatic test completed, dynamic yard test completed, mainline dynamic test scheduled the week of 12/10.
HPT Upgrade		Wabtec Proposal received. NTP issued 08/08/12. One car set prototype in testing. First delivery of 16 units scheduled for 02/22/13.
ABI New Traction Motor Mount		ABI for Fleet Modification in progress. A total of seventy seven (94) 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 - No bids received from others. Proceeding with PRF.
Door Operator Gearbox and Rollers Overhaul		In Progress - Buying kits from Vapor Stone to overhaul GB and motor in house.
H-4 electronic units		Unit upgrade - Fleet issues (Wabtec) to provide new unit proposal.
Base Buy DC fleet investigation		LJ-CH2M and engineering addressing PECE testing, Capacitors replacement, and modifying A17-A22-A23 boards. Field power supply calibration completed.
HVAC Evaporator AC motor/Inverter		Testing 1st article from Vapor Stone on one car. Spec in development for Procurement.
Traction motor Blower- AC motor/Inverter		Testing 1st article from ATS on one car. Spec in development for Procurement.
12 GTO (6 GTO+ and 6 GTO-) will be bench tested and installed on the train for dynamic testing.		In progress
PSI 3-day visit from 2/8-2/10/2013 regarding GE Tester performance to compare with PSI Tester. Installed GTO for dynamic main line testing		Completed.
P2550		Status
Vehicle Acceptance		Fifty cars have been Final Accepted.
3P Flip Up Seat Finger Guard		Submitted SS to Procurement - Testori - 1st prototype received and requires modification.
Find alternative Vendor for Reverse Engineer PCB Boards P2550		In Progress
Compressor Desiccant Material		In Progress
Rubber Boots (High Voltage)		In Progress - Vulcanite. Bought from OEM through A&E Telecom.
Cyclope light and Destination Sign Glass		In Progress - NASG
Ground Brush Schunk (Lamellar Seal failure investigation)		Awaiting ABI/SchUNK final update.
HVAC investigation		Water drain and smoking filter issues - Dealing with Thermoking and ABI.
Lateral shock absorber		Investigating the failure of the resilient bushing. ABI will change the Gimo to ZF type on the entire fleet.
Expo		Status
P2000 Couple/un-couple issues		Investigation completed - Test was successful - Fleet modification in process.
Mapping entire MBL and Expo line		Mapped entire MBL and Expo line ATP/ATO/Line voltage/ track signals.
Junction of Blue line and Expo line Testing - ATP		Testing indicated signal track problem at Culver City. Wayside are recertify track circuits. Testing completed on 10/18/12 indicated track circuit installation problem. GE investigating. Wayside replaced the transponder, fine tuning take place 02/14/13.
Loss of Cab signal, speed code 45 mph. Support GE, B&C, Wayside to resolve problems at La Cienega Station Expo line		In Progress to follow up, Update Project: GE replaced New Impedance Bond and verify that 90% of Blue line had been resolved. We will test with Wayside to resolve the rest of the fleet.
35 Cab Flips @ Culver City Platform and La Cienega Interlocking		Coordinate with Wayside to resolve the problems. GE vendor get involved to resolve a system design problem on E2C. (diode vs. no diode) Latest updated from BNC: No Diode for EXPO. Awaiting GE&BNC completion to finalize this issue. Repair completed to be tested by RFS Engineering 02/13/13



P2550 Vehicle Acceptance Program

January 2013

Vehicle Status Update:

- Project staff working with AB to close out open items including deliverable documentation.
- AB performing ATP-by pass switch modification. To date, 41 cars completed.
- AB performing Door system improvement modification. To date, 40 cars completed.

Engineering Activities Update:

- Event recorder: Configuration finalized and event recorders activated. 44 cars completed. Access to the remaining vehicles, and parts for those cars, are being addressed. The final training schedule for the event recorder is being established.
- ATP/TWC Configuration: Vendor testing to resolve TWC change order issues was completed. A-STS to continue with software changes and perform qualification of the system.
- Engineering issues regarding warranty items are being addressed.

Project Management:

- Contract spares continue to be delivered to Metro and most parts needed for day-to-day maintenance have been received. Critical parts needed for heavy repairs are beginning to arrive including two spare truck sets.
- Director level project meeting on technical and commercial items held January 24th, 2013.
- Daily and bi-weekly meetings are scheduled with contractor management to address project issues.

QA-Warranty Program Projects Summary

January 2013

QA-WARRANTY ACTIVITIES:

- On-Going, P2550 parts tracking: Contract Spares, Capital Spares, Metro Loaned Parts status to ABI
- On-Going, Division Warranty Parts Claims Processing
- P2550 Fleet High Speed Coupling failure investigation (Action pending ABI)
- P2550 Shock Absorber fleet failure declared (Action pending ABI)
- P2550 (Lamellar Seal) Truck Resilient Pin Bushing fleet failure declared (Action pending ABI)
- A650 Base Buy & Option Car Fleet Warranty Truck Frame Mod Campaign (52 of 220 Trucks modified to date). MRL Warranty Cost Avoidance savings accrued to date \$780,000.
- On-Going, Management's Special Interest Phase-2 Supplemental Inspections, MBL & MGL P2000 Fleet 4 of 52 cars completed
- QA PMI Audits, Spot Checks, Surprise/Unannounced Audits performed (4)
- RFS FAI's or equipment inspection/failure investigations (5)
- A650 Vehicles 505/506 re-commissioning, troubleshooting, Opt-testing 1000-mile. (Burn-in completed)
- 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

January 2013

Training classes completed during the month of January 2013

Description	Course Hours	Student Count	Training Hours
Blue & Expo Line Training - (P865/2020 & P2000 LRV):			
RFS 2-WEEK RAIL INTRODUCTION	72	1	72
Total Blue Line Training (Hours):			72
Red Line Training (Breda A650 HRV):			
RFS 2-WEEK RAIL INTRODUCTION	72	1	72
RFS BREDA 650 CAR BODY	8	7	56
RFS BREDA 650 DOOR SYSTEMS	24	7	168
RFS BREDA 650 TRUCKS & CAR BODY	24	7	168
RFS BREDA 650 F.B. ELECTRONICS	40	7	280
Total Red Line Training (Hours):			744
Green Line Training (P2000 LRVs):			
RFS 2-WEEK RAIL INTRODUCTION	80	1	80
Total Green Line Training (Hours):			80
Gold Line Training (P2550 LRVs):			
RFS AB 2550 PANTOGRAPH/HIGH VOLTAGE DIST.	12	2	24
RFS AB 2550 VEHICLE SYSTEMS	40	2	80
Total Gold Line Training (Hours):			24
Total RFS Instruction for the month of January 2013 (Hours):			920
Other Instruction Activities			
Train-the-Trainer class at LATTC			32
A650, P2550 & P2000 Vehicle Course Preparation			160
Total Other Instruction Activities			192.0

Core Vehicle Training Completed: BLUE RED GREEN GOLD

Percentage of core vehicle training complete: **75.1% 92.5% 80.6% 78.9%**
 Siemens P2000 training complete: 45.3% N/A N/A N/A

Average Specialist Rail Experience Level in Years: **11.0 10.1 9.1 9.3**

Core Training Completed

