



# **Rail Fleet Services Monthly Report November 2010**



**Metro**

# Table of Contents

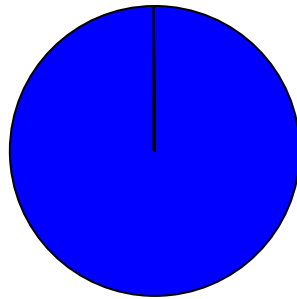
•	Safety	
–	Industrial Injuries	Page 1
–	Rail Vehicle Accidents & Major Incidents	Page 2
•	Customer Service	
–	Service Delivery – AM/PM Pull-Outs	Page 3
–	Vehicle Utilization – Blue Line & Green Line	Page 4
–	Vehicle Utilization – Red Line & Gold Line	Page 5
–	Mean Miles Between Failures (Major)	Page 6
–	Repeat Failures (Major)	Page 7
•	Business Processes	
–	Reported Incidents	Page 8
–	Preventative Maintenance Compliance	Page 9
•	Finance	
–	Vandalism & Graffiti Costs	Page 10
–	Graffiti Pictures	Page 11
–	Material & Labor Costs	Page 12
–	Cost per mile	Page 13
–	Absence vs. Overtime	Page 14
•	Engineering	
–	Rail Vehicle Engineering Project Summary	Page 15
–	P2550 Vehicle Acceptance Program	Page 16
•	Quality Assurance	
–	Warranty Program Projects Summary	Page 17
•	Growth	
–	Rail Fleet Service Training	Page 18

# Industrial Injuries – Lost Work Hours

## November 2010

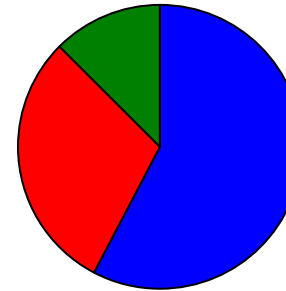
	Dec-09	Jan-10	Feb-10	Mar-10	Apr-10	May-10	Jun-10	Jul-10	Aug-10	Sep-10	Oct-10	Nov-10	Year to Date
Blue Line	200	176	160	264	256	328	424	496	472	352	352	336	3,816
Red Line	352	352	200	176	176	280	168	176	80	0	8	0	1,968
Green Line	136	168	168	136	16	3	0	56	128	0	0	0	811
Gold Line	8	0	0	0	0	0	0	0	0	0	0	0	8
Totals	696	696	528	576	448	611	592	728	680	352	360	336	6,603

November 2010 - Lost Work Hours



■ Blue Line ■ Red Line ■ Green Line ■ Gold Line

Year-to-Date Lost Work Hours



■ Blue Line ■ Red Line ■ Green Line ■ Gold Line

	Employees		November 2010 Lost Work Hours			
	Assigned	Active	Service Attendant	Maint. Specialist	Body Repairer /Painter	November 2010 Total Hrs.
Blue Line	110	105	0	160	176	336
Red Line	104	103	0	0	0	0
Green Line	47	44	0	0	0	0
Gold Line	50	48	0	0	0	0
Totals	311	300	0	160	176	336
Total Lost Work Hours for 11-months = 6625 hours						

# Rail Vehicle Accidents & Major Incidents

## November 2010

Repair Costs	Dec-09	Jan-10	Feb-10	Mar-10	Apr-10	May-10	Jun-10	Jul-10	Aug-10	Sep-10	Oct-10	Nov-10	Totals
Blue Line	\$656	\$39,034	\$5,600	\$11,305	\$2,100	\$5,705	\$2,050	\$36,498	\$50,124	\$916	\$4,781	\$10,716	\$169,485
Red Line	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Green Line	\$0	\$0	\$0	\$0	\$0	\$4,799	\$0	\$0	\$0	\$0	\$0	\$0	\$4,799
Gold Line	\$0	\$17,028	\$4,404	\$0	\$0	\$3,523	\$0	\$653	\$0	\$441	\$4,286	\$3,016	\$33,351
Totals	\$656	\$56,062	\$10,004	\$11,305	\$2,100	\$14,027	\$2,050	\$37,151	\$50,124	\$1,357	\$9,067	\$13,732	\$207,635

Rail Vehicle Accident Costs - November 2010				
Metro Blue Main Line				
2010	Incident #	Problem code	Incident Description	Cost
11/5/10	1873559	(10-73) Train vs.Vehicle	T-251, Train #9, LRV (142B) 133-124, Long Beach and Hill Street, Southbound, Track #2.	487.00
				<b>487.00</b>
2010	Incident #	Problem code	Incident Description	Cost
11/5/10	1874140	(10-73) Train vs.Vehicle	T-251, Train #2, LRV (163A) 155-112, Long Beach and 20th Street, Southbound, Track #2.	668.00
				<b>668.00</b>
2010	Incident #	Problem code	Incident Description	Cost
11/5/10	1874285	(10-72) Train vs.Pedestrian	T-068, Train #1, LRV (107B) 144-129, Pico Station, Southbound, Track #2.	503.00
				<b>503.00</b>
2010	Incident #	Problem code	Incident Description	Cost
11/10/10	1880571	(10-73) Train vs.Vehicle	T-069, Train #10, Flower and 18th Street, Southbound, Track #2.	6,646.00
				<b>6,646.00</b>
2010	Incident #	Problem code	Incident Description	Cost
11/16/10	1888498	(10-73) Train vs.Vehicle	T-067, Train #9, LRV (131A) 136-154, Flower/Venice Station, Southbound, Track #2.	2,412.00
				<b>2,412.00</b>
				<b>TOTAL FOR METRO BLUE LINE</b>
				<b>10,716.00</b>
Metro Blue Line				
2010	Incident #	Problem code	Incident Description	Cost
11/26/10	1901878.00	(10-72) Train vs.Pedestrian	T-151, Train vs. Pedestrian on bike, Train #1, 235-234, Ford and 3rd Street crossing, Southbound, Track #2.	3,016.00
				<b>TOTAL FOR METRO GOLD LINE</b>
				<b>3,016.00</b>
				<b>GRAND TOTAL</b>
				<b>13,732.00</b>
(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 – AM/PM Pull-Outs

## November 2010

### Cars Available for AM/PM Pull-Outs

#### Blue Line – Fleet Size 69 cars

- Weekday pull-out: 60 cars
- Weekend pull-out: 36 cars
- **Monthly Mileage: 405,253 miles**

#### Red Line - Fleet Size 104 cars

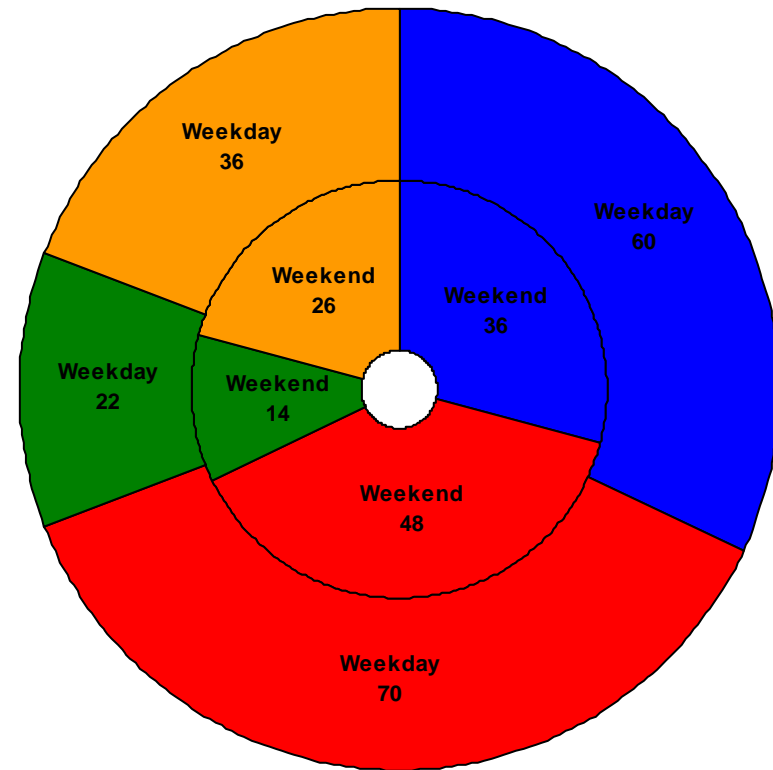
- Weekday pull-out: 70 cars
- Weekend pull-out: 48 cars
- **Monthly Mileage: 554,202 miles**

#### Green Line – Fleet Size 29 cars

- Weekday pull-out: 22 cars
- Weekend pull-out: 14 cars
- **Monthly Mileage: 212,741 miles**

#### Gold Line – Fleet Size 52 cars

- Weekday pull-out: 36 cars
- Weekend pull-out: 26 cars
- **Monthly Mileage: 225,621 miles**

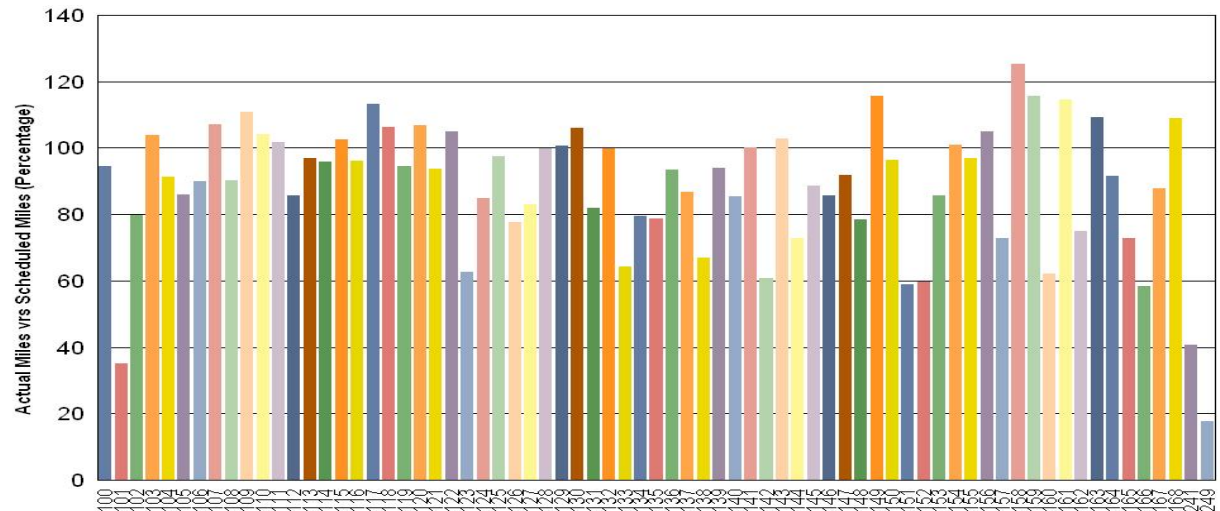


# Vehicle Utilization November 2010

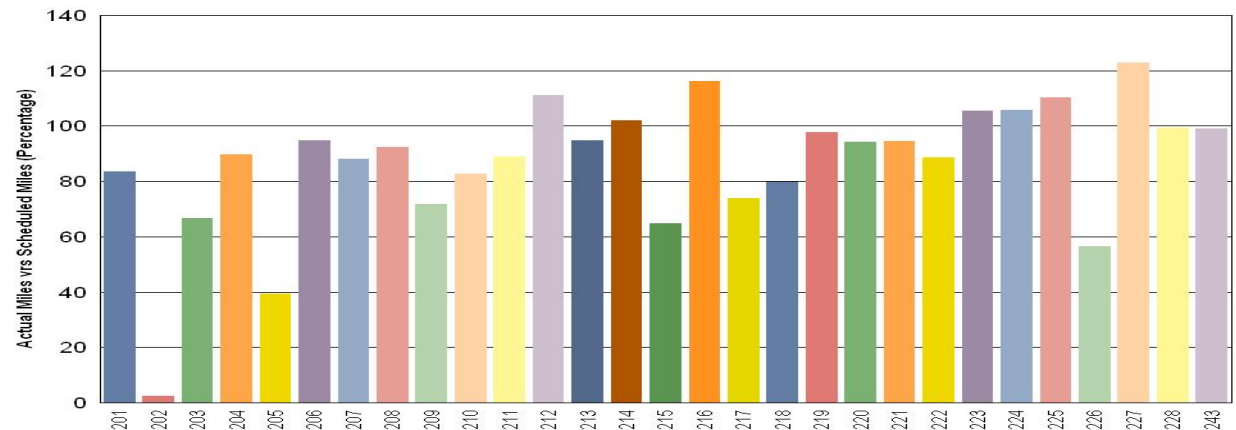
**Blue Line – Vehicle #249 has been placed out of service in preparation for refurbishment and upgrades.**

***Note: Percentage includes an average 4% mileage deduction for Yard mileage and Vehicle Testing.***

**Metro Blue Line**



**Metro Green Line**



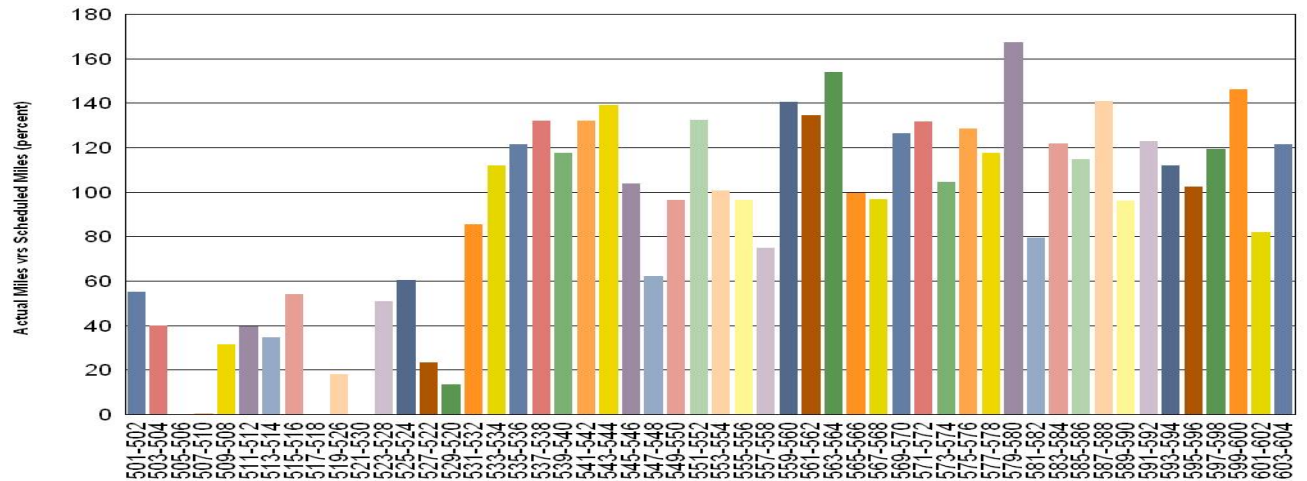
**Green Line – Vehicle #202 was out of service due to a traction bolt (part delivery is pending).**

# Vehicle Utilization November 2010

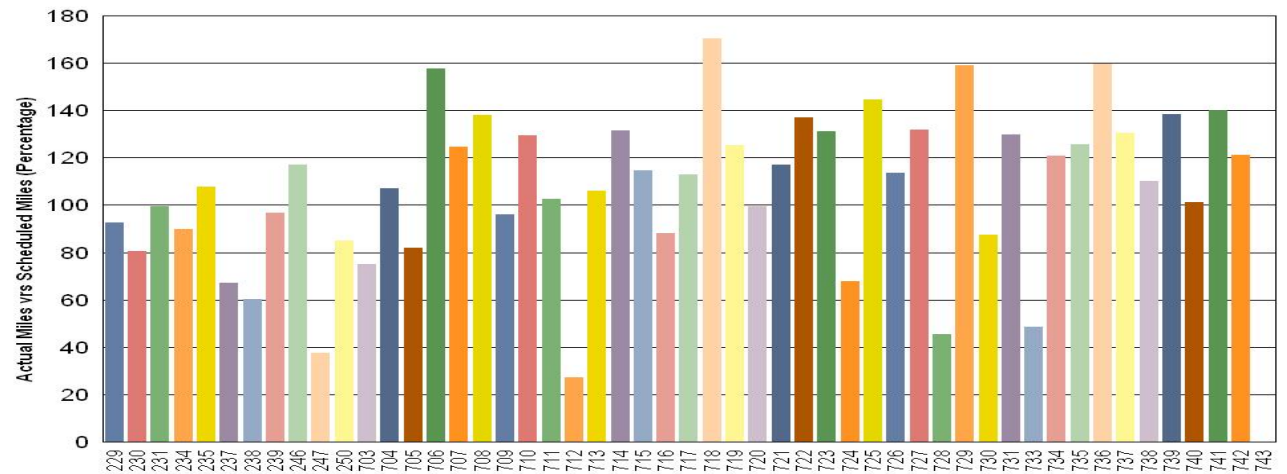
Red Line – Vehicles 505-506, 507-510, 509-508, 513-514, 517-518, 519-526, & 521-530, 527-522 & 529-520, are flagged as low vehicle utilization due to Base-Buy fleet having propulsion and brake problems.

*Percentage includes an average 4% mileage deduction for Yard mileage and Vehicle Testing.*

**Metro Red Line**



**Metro Gold Line**



# Mean Miles Between Failures (Major) November 2010

## Miles Between Major Failures

**Blue Line:** 20,263 miles (20 Major Failures)

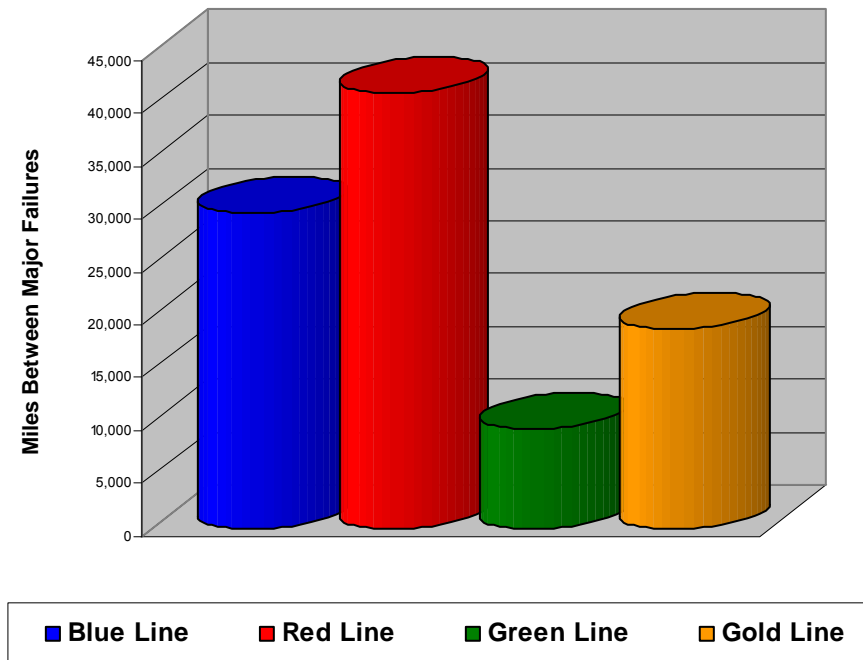
**Red Line:** 42,631 miles (13 Major Failures)

**Green Line:** 11,818 miles (18 Major Failures)

**Gold Line:** 22,562 miles (10 Major Failures)

**Siemens P2000** 44,887 miles (1 Major Failures)

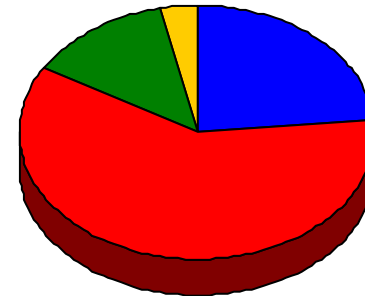
**AnsaldoBreda P2550** 20,082 miles (9 Major Failures)





# Repeat Failures (Major) November 2010

**Metro Blue Line:** 7 Repeat Failures  
**Metro Red Line:** 18 Repeat Failures  
**Metro Green Line:** 4 Repeat Failures  
**Metro Gold Line:** 1 Repeat Failures



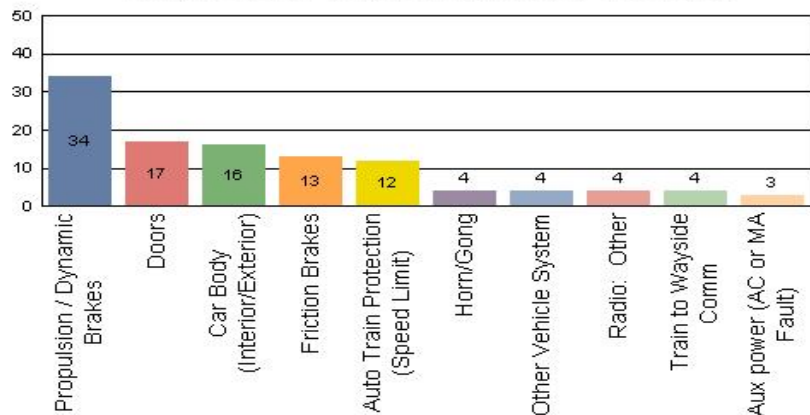
■ Blue Line ■ Red Line ■ Green Line ■ Gold Line

Repeater Car Details - November 2010								
System	Blue Line		Red Line		Green Line		Gold Line	
	Car #	Repeats	Car #	Repeats	Car #	Repeats	Car #	Repeats
Automated Train Operation			545	1	218	3		
			569	2				
Automated Train Protection	101	1						
Car Body							704	1
Communication			567	2				
Doors			534	4	221	1		
Friction Brakes	165	2	552	1				
			584	1				
HVAC			557	3				
Propulsion/Dynamic Brake	100	2	582	2				
	165	2	554	1				
Trucks			594	1				
TOTALS	7		18		4		1	

# Reported Incidents November 2010

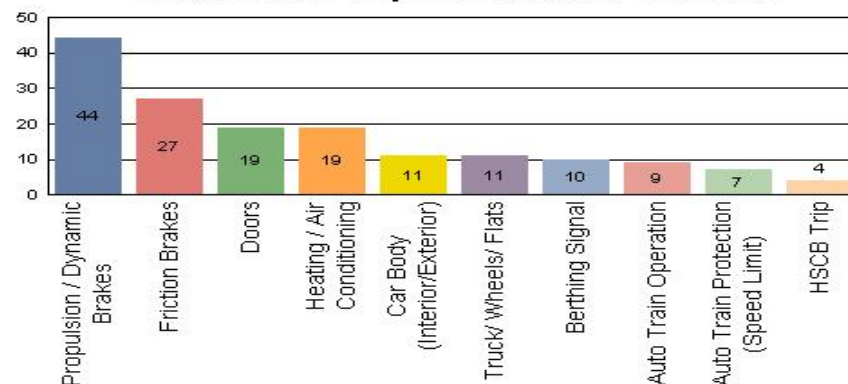
## Metro Blue Line

Count of the Top 10 Incident Problems



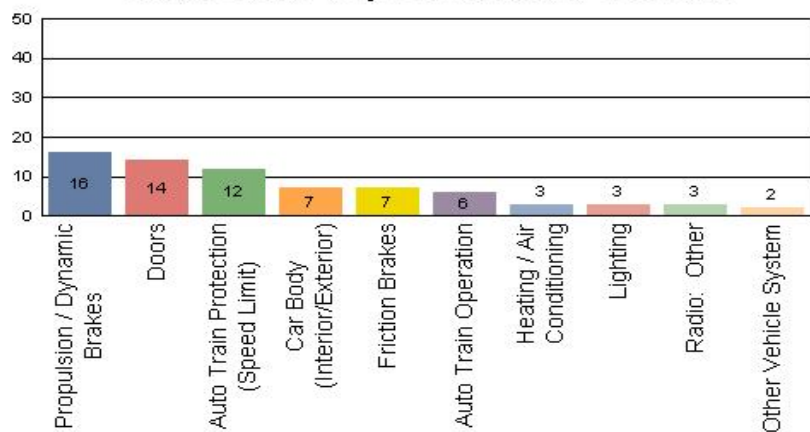
## Metro Red Line

Count of the Top 10 Incident Problems



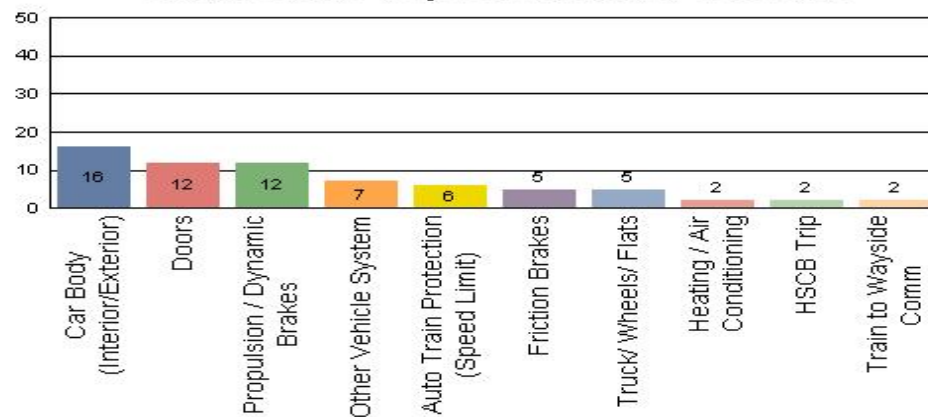
## Metro Green Line

Count of the Top 10 Incident Problems



## Metro Gold Line

Count of the Top 10 Incident Problems



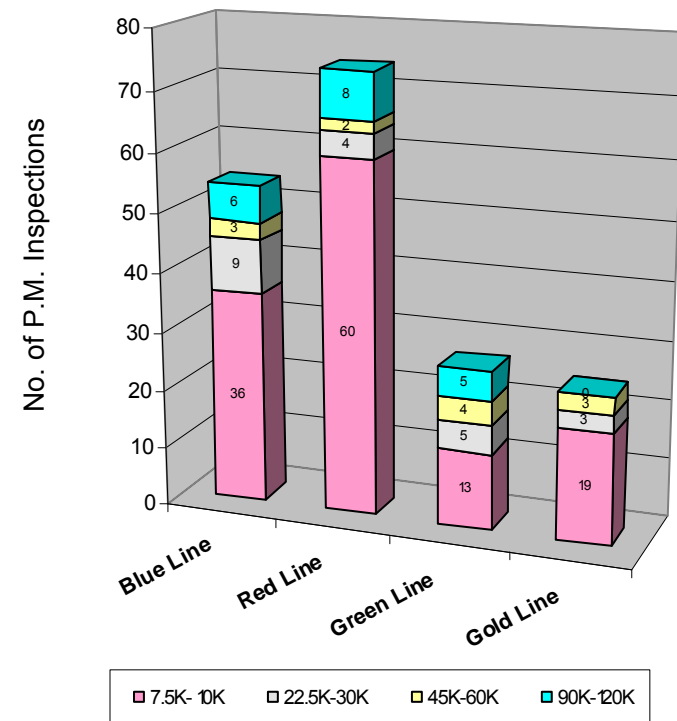
# Preventative Maintenance Compliance

## November 2010

Averages	Nov-09	Dec-09	Jan-10	Feb-10	Mar-10	Apr-10	May-10	Jun-10	Jul-10	Aug-10	Sep-10	Oct-10	Nov-10
Blue Line	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
Red Line	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	97%
Green Line	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
Gold Line	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%

November 2010 Preventative Maintenance Inspections

No. of P.M. Inspections	7.5K-10K	22.5K-30K	45K-60K	90K-120K	Totals	% Compliance
Blue Line	36	9	3	6	54	100%
Red Line	60	4	2	8	74	97%
Green Line	13	5	4	5	27	100%
Gold Line	19	3	3	0	25	100%
Totals:	128	21	12	19	180	100%

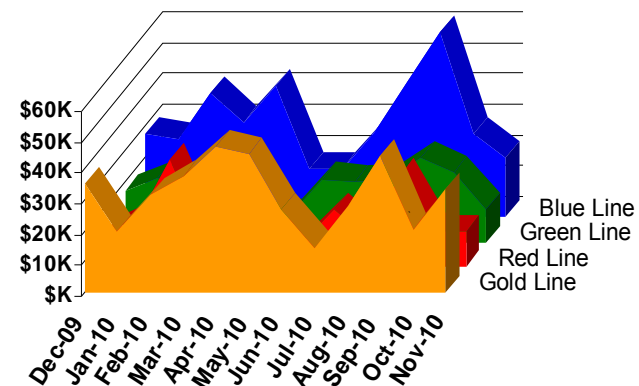


# Vandalism & Graffiti Report

## November 2010

	Dec-09	Jan-10	Feb-10	Mar-10	Apr-10	May-10	Jun-10	Jul-10	Aug-10	Sep-10	Oct-10	Nov-10	Year-to-Date
Blue Line	\$27K	\$26K	\$40K	\$31K	\$43K	\$16K	\$16K	\$28K	\$44K	\$60K	\$27K	\$19K	\$377K
Green Line	\$16K	\$21K	\$16K	\$21K	\$8K	\$9K	\$21K	\$19K	\$20K	\$28K	\$23K	\$10K	\$211K
Red Line	\$11K	\$16K	\$35K	\$11K	\$12K	\$11K	\$8K	\$19K	\$10K	\$30K	\$12K	\$12K	\$186K
Gold Line	\$35K	\$20K	\$32K	\$37K	\$48K	\$45K	\$27K	\$14K	\$28K	\$44K	\$20K	\$33K	\$384K
Totals:	\$91K	\$82K	\$123K	\$100K	\$110K	\$81K	\$71K	\$80K	\$102K	\$162K	\$82K	\$75K	\$1,159K

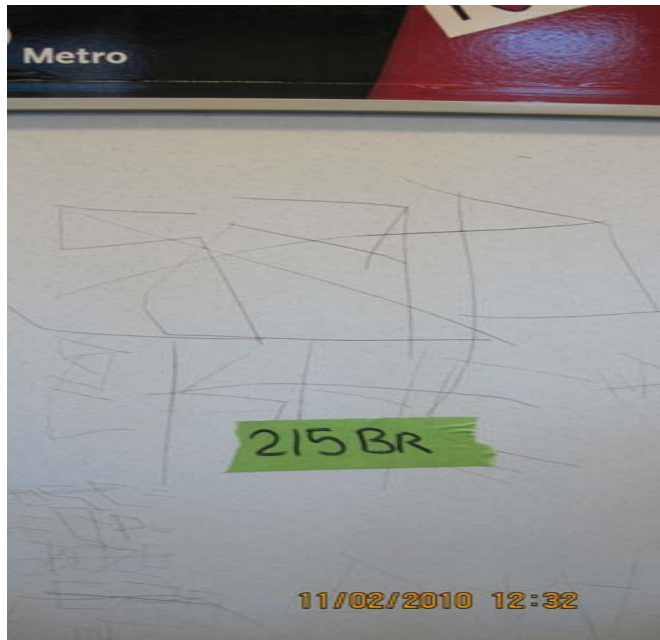
November 2010 Vandalism & Graffiti - All Rail				
	Qty	Labor	Materials	Totals
Windows replaced	25	\$4K	\$4K	\$8K
Vandal Shields	375	\$9K	\$4K	\$13K
Seats Cleaned	2,624	\$4K	\$3K	\$6K
Seats Replaced	113	\$4K	\$4K	\$8K
Ext/Int Repairs	986	\$3K	\$K	\$3K
Totals for November 2010		\$56K	\$19K	\$75K



# Graffiti Pictures November 2010



A - Metro Blue Line



B - Metro Green Line



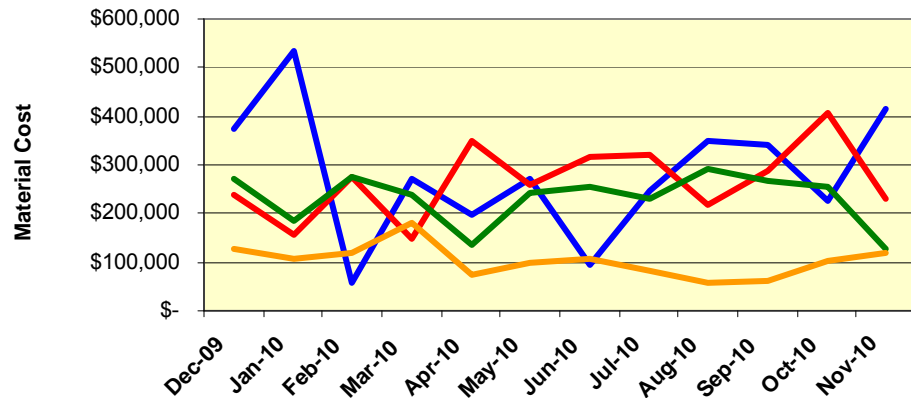
C - Metro Gold Line

# Material and Labor Costs

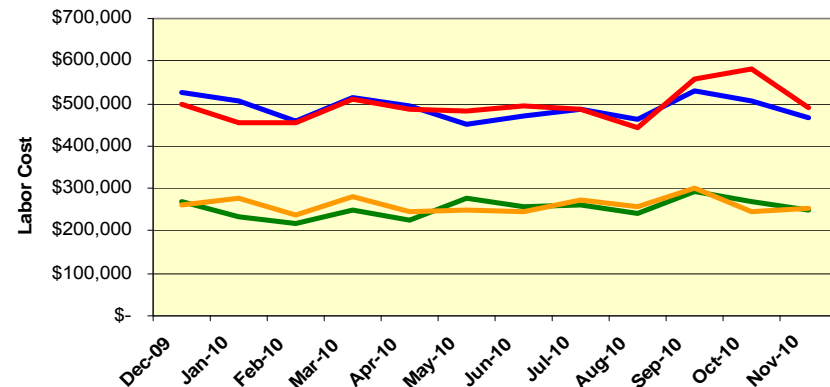
## November 2010

MATERIALS	Dec-09	Jan-10	Feb-10	Mar-10	Apr-10	May-10	Jun-10	Jul-10	Aug-10	Sep-10	Oct-10	Nov-10	Totals
Blue Line	\$ 375,541	\$ 535,717	\$ 57,633	\$ 270,743	\$ 197,253	\$ 272,347	\$ 94,924	\$ 245,000	\$ 347,681	\$ 341,681	\$ 225,412	\$ 416,656	\$ 3,380,588
Red Line	\$ 238,738	\$ 157,351	\$ 275,856	\$ 149,720	\$ 348,088	\$ 258,558	\$ 317,139	\$ 321,375	\$ 219,030	\$ 285,906	\$ 406,465	\$ 230,298	\$ 3,208,524
Green Line	\$ 272,871	\$ 184,149	\$ 276,116	\$ 240,194	\$ 136,768	\$ 244,408	\$ 256,000	\$ 231,296	\$ 291,938	\$ 267,489	\$ 253,619	\$ 128,574	\$ 2,783,422
Gold Line	\$ 128,297	\$ 105,109	\$ 117,356	\$ 179,658	\$ 72,343	\$ 98,102	\$ 105,801	\$ 81,897	\$ 57,693	\$ 61,673	\$ 104,711	\$ 117,573	\$ 1,230,213
Totals	\$ 1,015,447	\$ 982,326	\$ 726,961	\$ 840,315	\$ 754,453	\$ 873,415	\$ 773,864	\$ 879,567	\$ 916,342	\$ 956,749	\$ 990,206	\$ 893,102	\$ 10,602,748

**Material Costs**



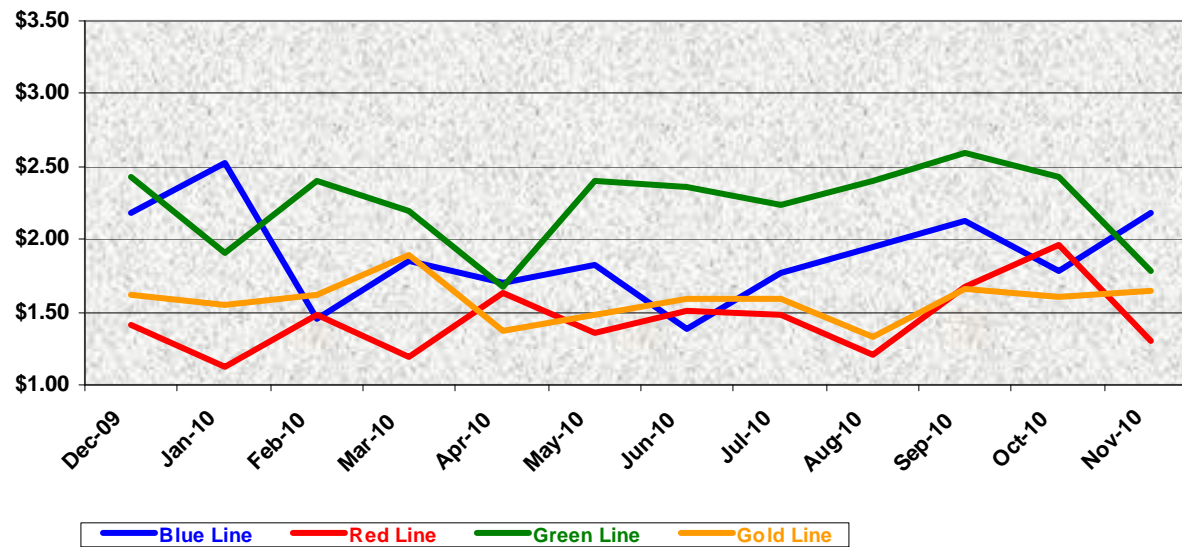
**Labor Costs**



LABOR	Dec-09	Jan-10	Feb-10	Mar-10	Apr-10	May-10	Jun-10	Jul-10	Aug-10	Sep-10	Oct-10	Nov-10
Blue Line	\$ 527,760	\$ 505,239	\$ 458,335	\$ 515,305	\$ 492,862	\$ 451,979	\$ 472,293	\$ 484,536	\$ 462,218	\$ 529,087	\$ 504,876	\$ 466,805
Red Line	\$ 498,786	\$ 453,571	\$ 453,580	\$ 510,664	\$ 487,627	\$ 482,974	\$ 492,936	\$ 487,742	\$ 442,482	\$ 555,982	\$ 581,709	\$ 491,124
Green Line	\$ 269,668	\$ 231,918	\$ 218,637	\$ 248,224	\$ 225,004	\$ 276,665	\$ 258,297	\$ 262,563	\$ 241,807	\$ 291,569	\$ 269,647	\$ 249,736
Gold Line	\$ 259,793	\$ 278,537	\$ 237,594	\$ 279,935	\$ 247,135	\$ 247,474	\$ 247,000	\$ 271,885	\$ 257,900	\$ 299,833	\$ 245,423	\$ 255,054
Totals	\$ 1,556,008	\$ 1,469,265	\$ 1,368,146	\$ 1,554,128	\$ 1,452,628	\$ 1,459,092	\$ 1,470,526	\$ 1,506,727	\$ 1,404,407	\$ 1,676,471	\$ 1,601,654	\$ 1,462,719

# Cost Per Mile November 2010

Cost per mile:	Dec-09	Jan-10	Feb-10	Mar-10	Apr-10	May-10	Jun-10	Jul-10	Aug-10	Sep-10	Oct-10	Nov-10	Average
Blue Line	\$2.18	\$2.53	\$1.45	\$1.85	\$1.69	\$1.82	\$1.39	\$1.77	\$1.95	\$2.13	\$1.79	\$2.18	\$1.89
Red Line	\$1.42	\$1.13	\$1.48	\$1.19	\$1.64	\$1.36	\$1.51	\$1.48	\$1.21	\$1.67	\$1.96	\$1.30	\$1.45
Green Line	\$2.43	\$1.91	\$2.41	\$2.20	\$1.67	\$2.41	\$2.36	\$2.24	\$2.40	\$2.60	\$2.43	\$1.78	\$2.24
Gold Line	\$1.62	\$1.55	\$1.62	\$1.89	\$1.37	\$1.49	\$1.59	\$1.59	\$1.33	\$1.65	\$1.60	\$1.65	\$1.58



No facility costs are included

# **Absences vs. Overtime November 2010**

**Information for this report was not available at this time.**



# Rail Vehicle Engineering Project Summary

## November 2010

Major Projects	
A650 Refurbishment    Expo Readiness P865/P2000 Fleets    P2000 Signal Package Conversion    Protran Worker Protection Device	
P2000 Component Overhaul    P2550 Vehicle Acceptance    P3010 Vehicle Acquisition    MBL Overhaul    MBL Auxiliary Inverter Prototype	
Technical Specifications	
<b>MBL, MGL, MRL, MGD (all fleets):</b>	Repair/Overhaul Gearbox (specification in process)    P2000 Axle Assembly, P865/P2020 Axle Assembly    Red Line Journal Bearing Overhaul    P2000 HVAC Suttrak Units Overhaul    Chevron Springs    P2000 Slew Ring Service Contract    P2000 Slew Ring Removal    MRL Defective Wheels Lab Failure    Systra Contract for Expo Fleet    MBL Midlife Overhaul    MBL Air Compressor Motor Overhaul    MBL Articulation Bellow
Active Test Bulletins	
<b>MBL (P865/P2020):</b>	Door capacitor    Raise Motor Alternator Trip Setting    Replace GRS/TWC with H&K TWC    Moisture Eliminator Gutter-Chopper    Solid State Flashing Circuit    Horn
<b>MRL (A650 Base):</b>	Chevron springs    DC-AC traction motor blower    GE gear unit    Blower Unit (L)    Coupler Shield    A21 Power Supply
<b>MRL (A650 Option):</b>	Pinion shaft    Emergency door seal    Gearbox    Air spring    Vandal shield    Rubber boots (retest)    Brushes    Motor evaporator
<b>MGDL (P2000):</b>	176 Box    Luminator's LED Destination Sign
<b>MGL (P2000):</b>	Door operator assembly    176 Box
Active Modification Bulletins	
<b>MBL (P865/P2020):</b>	Watch gap, Wheelchair, Security cameras    Battery disconnect decals    Gearbox long breather tube
<b>MBL (P2000):</b>	Add TWC route select feature    No acceleration during ATP Overspeed
<b>MRL (A650 Option/Base):</b>	FCC high voltage decal    Remove trip switch wiring    Manual controller modification by American Transit    Front door latch    Replace end door threshold plate    Dead battery start    Buss bar isolation    ATO overspeed brake rate
<b>MGL (P2000):</b>	Master controller with new cam profiles    Removal of convex mirror head    Spin/slide sanding modification    Protran 1 Wayside Worker Protection
<b>MGDL (P2000):</b>	Battery disconnect decals
Active Technical Request Form	
<b>MBL (P865/P2020):</b>	Destination signs    Journal bearing    Air compressor motor    Chopper intake    Damper assembly    Knorr washer    Motor alternator set CB1 tripping problem
<b>MRL (A650 Option/Base):</b>	ATO berthing    Flender gearbox    Pinion shaft    Coupler corrosion cover    Gate drive power supply    Location decal    Rectifier    Door latching relay    Twist lug connector    Thermistor & TLR circuit failures    PA system & air whistle/horn faults    Safety Cable    Hand Assistance Strap    Contact Adhesive Flooring    H-4 Glass    Blower motor impeller    Bearing Grease
<b>MGL (P2000):</b>	Door operator assemble repair vendor    Air vent grille    Exterior rear view mirror    Sun shade gear latch    Car 201 technical assistance    EMI trip faults    HVAC motor    Sunshade Gear Latch
<b>MGDL (P2000/P2550):</b>	Truck tramming investigation    Operator door assembly overhaul    Diver cab window glass

# P2550 Vehicle Acceptance Program

## November 2010

### Vehicle Status Update:

- 42 cars at Metro
- A total of 41 Cars Conditionally Accepted (CA)
- 8 Cars at Pittsburg Assembly Plant

### Engineering Activities Update:

- Event recorder – AB have completed signal formatting with all vehicle systems per OEM requirement. OEM developing final software for systems integration. The work is ongoing.
- ATP/TWC 250 & 100 Hz nuisance faults resolved with software release 3.1, fleet installation completed.
- Turn Signal / Hazard Relays – during reliability tracking analysis relay's 8K01/8K02 have been identified with high failure rate. Manufacturing defect determined as root cause, replacement relays have arrived.
- Traction Motor HV Junction Box – To date 7 cars have been outfitted with new style brackets.
- Brake Caliper Overhaul – The Project Team visited the Knorr facility located in Union City, Ca. Facility and work audit was performed with positive results. To date 4 revenue cars have been overhauled.

### Production Car Status – Pittsburg:

- Car 745 - 100% complete. Shipment date to LA 12/08.
- Car 746 - 100% complete. Final testing in progress.
- Car 747 - 95% complete. Assembly in process.
- Car 748 - 75% complete. Assembly in process.
- Car 749 - 50% complete. Assembly in process.
- Cars 701& 702 - Re-configuration of car in progress, rewiring and repining of cables 100 % complete.

### Project Management:

- Car 744 was conditionally accepted in November.
- Contract spares are in process and delivered to Metro. Estimated at 80% complete.
- Daily and weekly meetings with AB Project Management to solve revenue service issues.
- AB provided list of missing production parts for final assembly of remaining vehicles. The list is comprehensive and inclusive of order date with part ETA. Project Team has scheduled bi-weekly meetings for updates.

### Fleet Revenue Service Summary:

- 2.8 million miles since March 2008 - - 209,997 miles in November
- 8 mainline incidents.



# QA-Warranty Program Projects Summary

## November 2010

### ADMINISTRATION / ERS ACTIVITES

- QA has received Ultrasonic - Phased Array Flaw Detector and is scheduling training for pertinent staff.
- QA Audit Program - On going, Divisions and Contractors have shown much improved results.
- QA Oil Analysis Program - On going. Areas of concern: water in gearboxes at MGL.
- P2550 Contract Programs - On track. QA overseeing remaining cars to be delivered.
- Special Projects & Technical Assist Programs, RWES' continue to assist both Engineering & Maintenance in providing corrective action in vehicle problem areas. Overtime is being monitored and scrutinized.
- The ERS' are continue close support to divisions and managerial staff.
- They also continue to implement, maintain, equipment records and provide warranty / cost avoidance reports archived in the QA-Warranty Share Drive.

### RED LINE ACTIVITES

- QA continues oversight lead for wheel failure testing and analysis with outside vendors.
- Oversight on T/M Mounts & Truck Frames, ABI weld repair project continues and new weld structure campaign to begin shortly.
- Support engineering and RFS on Compressor Motors, T/M Bearings, Inverters, Oscillators & Coupler Cables.
- Process 43 Warranty Parts, 43 R&R Parts, cost avoidance savings labor & parts = \$33,312.50

### BLUE LINE ACTIVITIES

- Support engineering in testing and training division staff on EXPO Line TWC modification and braking issues
- Oversee equipment overhaul campaigns (Door Systems, Car Body, Lighting Systems, & Car interior Projects).
- Provide Technical assistance on Procedures, Bulletins, as well as generate equipment PPT.
- Preparing procedures for overhaul campaigns and conduct FAI & parts inspections.
- Processed 1 Warranty Parts, 50 R&R Parts, cost avoidance savings labor & parts = \$ 1,942.00

### GREEN LINE ACTIVITES

- Support Engineering with on open issues (Circuit Relay, car ventilating, and slew rings, inverters, T/Ms).
- Continue close support with vendors & Contractors (Doors, Traction Motors, and Gearbox & Brake Systems).
- Prepared Technical Reports & Power-Point-Presentations and conduct FAI & parts inspections.
- Processed 64 R&R Parts.

### GOLD LINE ACTIVITES

- Oversee P2550 project acceptance and warranty program.
- Travel to Pittsburgh, California to monitor car build and help resolve open issues.
- Maintain project documentation, contract deliverables & maintenance records.
- Support ABI & RFSTS Engineering with Car Acceptance test issues.
- Processed 30 R&R & Warranty Parts, Cost avoidance savings labor & parts = \$ 56,436.31



# Rail Fleet Services Instruction

## November 2010

### Training classes completed during the month of November 2010

Description	Status	Start	End	Course Hours	Student Count	Training Hours
<b>Blue Line Training - (865/2020 &amp; P2000 LRV):</b>						
FALL PROTECTION	Complete	11/10/2010	11/17/2010	2	3	6
PERSONAL PROTECTIVE EQUIPMENT	Complete	11/8/2010	11/16/2010	2	2	4
HAZARD COMMUNICATION: IDENTIFYING THE DANGERS	Complete	11/9/2010	11/16/2010	2	2	4
BLOODBORNE PATHOGENS	Complete	11/9/2010	11/16/2010	2	2	4
FRONTLINE SAFETY TRAINING	Complete	11/4/2010	11/11/2010	3	2	6
BUS CLEANING AND SERVICING PROCEDURES	Complete	11/1/2010	11/8/2010	2	2	4
CNG ORIENTATION TRAINING (T.S.I.)	Complete	11/1/2010	11/8/2010	2	2	4
NEW SERVICE ATTENDANT ORIENTATION	Complete	11/1/2010	11/8/2010	32	2	64
OSHA - FORKLIFT TRAINING	Complete	11/1/2010	11/8/2010	4	2	8
ETD VALUING DIVERSITY	Complete	11/4/2010	11/4/2010	3	1	3
RFS SIEMENS 2000 VEHICLE SYSTEMS	Complete	11/15/2010	11/30/2010	40	2	80
EFFECTIVE MEETINGS	Complete	11/18/2010	11/18/2010	3	2	6

**Total Blue Line Training (Hours): 193**

#### Red Line Training (Breda A650 HRV):

EMS AWARENESS VIDEO	Complete	11/3/2010	11/17/2010	0.14	38	5.32
EMS AWARENESS: GENERAL AWARENESS TRAINING	Complete	11/3/2010	11/17/2010	0.25	38	9.5
ETD STRESS MANAGEMENT	Complete	11/17/2010	11/17/2010	3	1	3
EXCEL 2003 - DATA SORT AND FILTERS	Complete	11/10/2010	11/10/2010	2	1	2
MANDATORY TRANSIT OPERATIONS EXPERIENCE	Complete	11/5/2010	11/5/2010	2	1	2
EFFECTIVE MEETINGS	Complete	11/18/2010	11/18/2010	3	1	3
ETD VALUING DIVERSITY	Complete	11/4/2010	11/4/2010	3	1	3
FALL PROTECTION	Complete	11/18/2010	11/18/2010	2	1	2
HAZARD COMMUNICATION: IDENTIFYING THE DANGERS	Complete	11/17/2010	11/17/2010	2	1	2
PERSONAL PROTECTIVE EQUIPMENT	Complete	11/16/2010	11/16/2010	2	1	2
SAFETY ORIENTATION: ON ALERT	Complete	11/12/2010	11/12/2010	2	1	2

**Total Red Line Training (Hours): 35.82**

#### Green Line Training (P2000 LRVs):

RFS SIEMENS 2000 VEHICLE SYSTEMS	Complete	11/15/2010	11/30/2010	40	1	40
EXCEL 2003 - FORMAT AND PRINT WORKSHEETS	Complete	11/2/2010	11/2/2010	2.5	1	2.5
RAIL SYSTEM SAFETY	Complete	11/2/2010	11/2/2010	4	7	28

**Total Green Line Training (Hours): 70.5**

#### Gold Line Training (P2550 LRVs):

HAZARD COMMUNICATION FOR EMPLOYEES	Complete	11/21/2010	11/30/2010	1.5	28	42
------------------------------------	----------	------------	------------	-----	----	----

**Total Gold Line Training (Hours): 42**

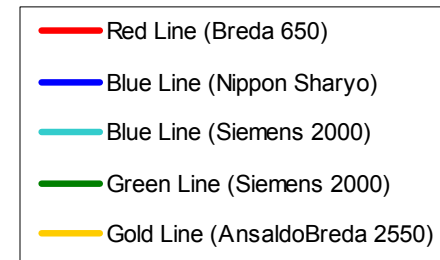
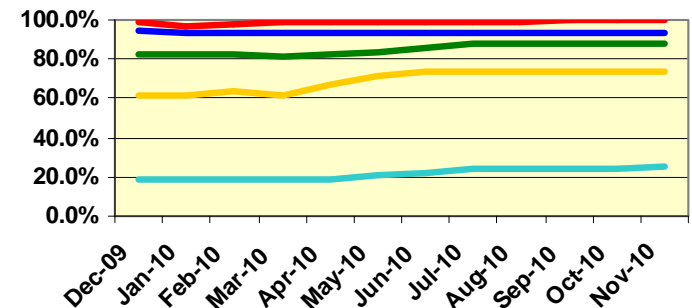
**Total Rail Fleet Services Instruction for the month of November 2010 (Hours): 341.3**

**Core Vehicle Training Completed:**

	<b>BLUE</b>	<b>RED</b>	<b>GREEN</b>	<b>GOLD</b>
Percentage of core vehicle training complete:	92.9%	99.5%	88.3%	73.4%
Siemens 2000 training complete:	25.1%	N/A	N/A	N/A

Average Specialist Rail Experience Level in Years:	11.2	11.0	8.0	9.2
--	------	------	-----	-----

### Core Training Completed



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