

# Rail Fleet Services Monthly Report December 2017



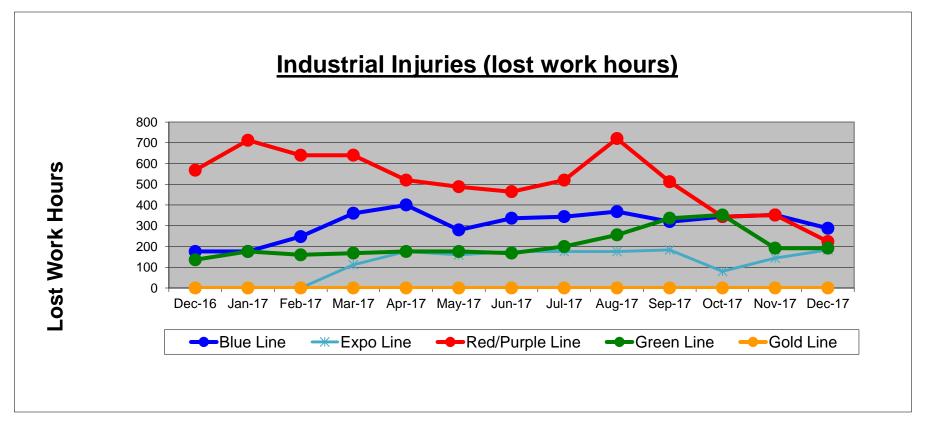
#### **Table of Contents**

•	Safety & Cleanliness - Industrial Injuries - Rail Vehicle Accidents & Major Incidents	Page Page	3 4
	- Car Cleanliness	Page	5
•	Customer Service		
	- Service Delivery – AM/PM Pull-Outs	Page	6
	- Vehicle Utilization – Red Line	Page	7
	- Vehicle Utilization - Blue Line & Expo Line	Page	8
	- Vehicle Utilization – Green Line & Gold Line	Page	9
	- All Train Delay Incidents	Page	10
	- Mean Miles Between Failures (Major) & MMBF by Division	Page	11-12
	- Mileage Between Data Range (by month)	Page	13
•	Business Processes		
	- Top Incident Categories	Page	14
	- Major Incidents	Page	15
	- Preventive Maintenance Compliance	Page	16
	- RFS Leader Wrench Turning	Page	17
	Finance		
	- Vandalism & Graffiti Costs	Page	18
	- Vandalism & Graffiti Pictures	Page	19
	- Labor & Material Costs	Page	20
	- Cost per mile	Page	21
	- Absence vs. Overtime/ %Absence and %Overtime of ATU	Page	22-23
	Absorbed vo. Overtainer fortbooking and foovertaine of Atto	i ago	22 20
•	Growth		
	- RFS Instruction Department Activities	Page	24-25



## Industrial Injuries – Lost Work Hours December 2016-2017

	Dec-16	Jan-17	Feb-17	Mar-17	Apr-17	May-17	Jun-17	Jul-17	Aug-17	Sep-17	Oct-17	Nov-17	Dec-17	13-Month Period
Blue Line	176	176	248	360	400	280	336	344	368	320	344	352	288	3,992
Expo Line	0	0	0	112	176	160	176	176	176	184	80	144	184	1,568
Red/Purple Line	568	712	640	640	520	488	464	520	720	512	344	352	224	6,704
Green Line	136	176	160	168	176	176	168	200	256	336	352	192	192	2,688
Gold Line	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Totals	880	1,064	1,048	1,280	1,272	1,104	1,144	1,240	1,520	1,352	1,120	1,040	888	14,952





# Rail Vehicle Accidents & Major Incidents December 2016-2017

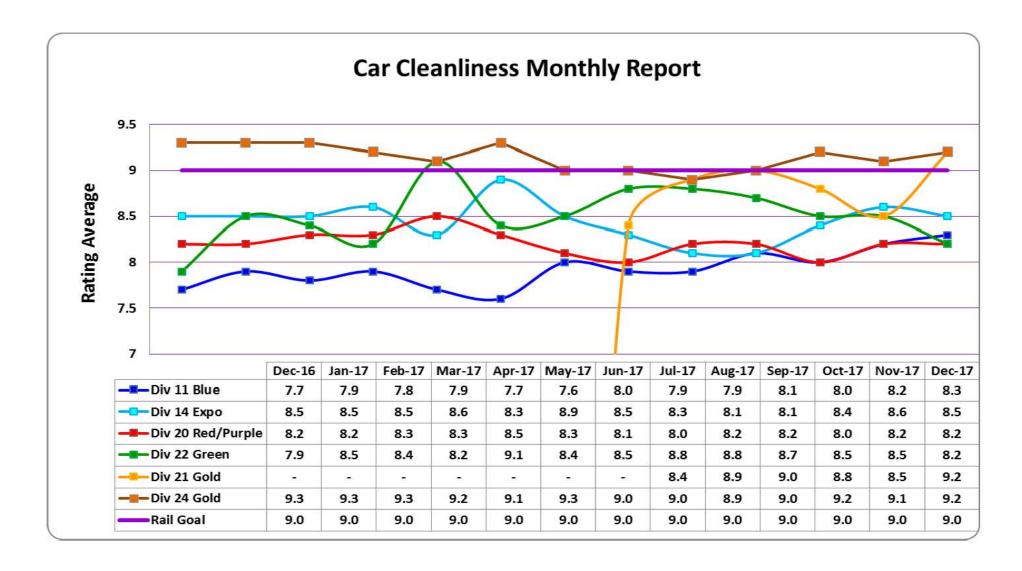
Repair Costs	Dec-16	Jan-17	Feb-17	Mar-17	Apr-17	May-17	Jun-17	Jul-17	Aug-17	Sep-17	Oct-17	Nov-17	Dec-17	13-Month Period
Blue Line	\$2,352	\$170,311	\$0	\$1,427	\$2,586	\$0	\$15,084	\$632	\$268	\$3,683	\$31,202	\$1,016	\$344	\$228,905
Expo Line	\$381	\$763	\$1,930	\$0	\$1,420	\$0	\$0	\$0	\$191	\$0	\$25,571	\$597	\$321	\$31,174
Red/Purple Line	\$0	\$0	\$1,032	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,032
Green Line	\$0	\$0	\$0	\$0	\$334	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$334
Gold Line	\$0	\$3,789	\$15,829	\$1,871	\$191	\$2,692	\$0	\$0	\$0	\$1,343	\$5,751	\$0	\$680	\$32,146
Totals	\$2,733	\$174,863	\$18,791	\$3,298	\$4,531	\$2,692	\$15,084	\$632	\$459	\$5,026	\$62,524	\$1,613	\$1,345	\$293,591

		Rail	Vehicle Accident Costs - December 2017		
Date	Incident #	Problem Code	Incident Description	Repa	air Cost
Metro Blu	e Line				
12/1/17	2940593	Train vs. Pedestrian	A 10-72 was reported at Compton Grade Crossing, Track 1. Operator reported an individual walked in front of train as the train was approaching grade crossing.	\$	155
12/21/17	2949041	Train vs. Vehicle	A 10-73 was reported at Washington and Maple.	\$	189
			Metro Blue Line Total	\$	344
Metro Exp	o Line				
12/2/17	2941231	Train vs. Vehicle	A 10-73 was reported at Exposition Blvd. and Raymond Ave.	\$	321
			Metro Expo Line Total	\$	321
<b>Metro Gol</b>	d Line				
12/14/17	2946109	Train vs. Vehicle	A 10-73 was reported at Del Mar Grade Crossing, Track 1 NB.	\$	680
			Metro Gold Line Total	\$	680
			Grand Total	\$	1,345
	<b>10-71</b> = Train	vs. Object/ <b>10-72</b> = Train vs	s. Pedestrian/ 10-73 = Train vs. Vehicle/ 10-74 = Train vs. MTA Vehicle/ 10-75 = Derailme	ent	



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.

#### Rail Vehicle – Car Cleanliness December 2016-2017





#### **Service Delivery** December 2017

Blue Line Fleet Size: 90

Pull Out Vehicles Required Available % Up (Down) Weekday: 66 72 109% Weekend: 26 59 227%

Average

Average

**Monthly Mileage:** 490.650

**Expo Line Fleet Size: 55** 

Average Pull Out Vehicles Required % Up (Down) Available Weekday: 42 41 98% Weekend: 30 37 123%

**Monthly Mileage:** 274,454

Red/Purple Line Fleet Size: 98

<u>Average</u> Pull Out Vehicles Required Available % Up (Down) Weekday: 64 72 113% Weekend: 40 60 150%

**Monthly Mileage:** 592,978

**Green Line Fleet Size: 38** 

Pull Out Vehicles Required Available % Up (Down) Weekday: 26 26 100% Weekend: 14 19 136%

**Monthly Mileage:** 260,219

Gold Line Fleet Size: 67

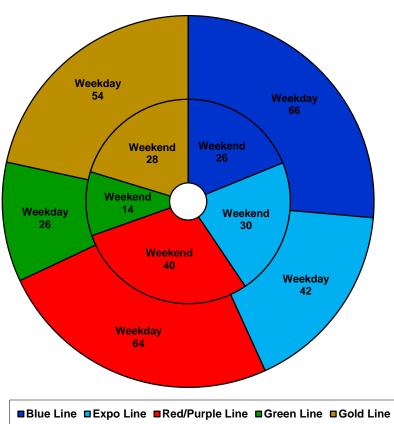
Average Pull Out Vehicles Required <u>Available</u> % Up (Down) Weekday (Div 21): 100% 10 10 Weekday (Div 24): 44 44 100% Weekend (Div 24): 28 40 143%

\*Monthly Mileage: 592,865

Gold Line monthly mileage includes Division 21 and 24.

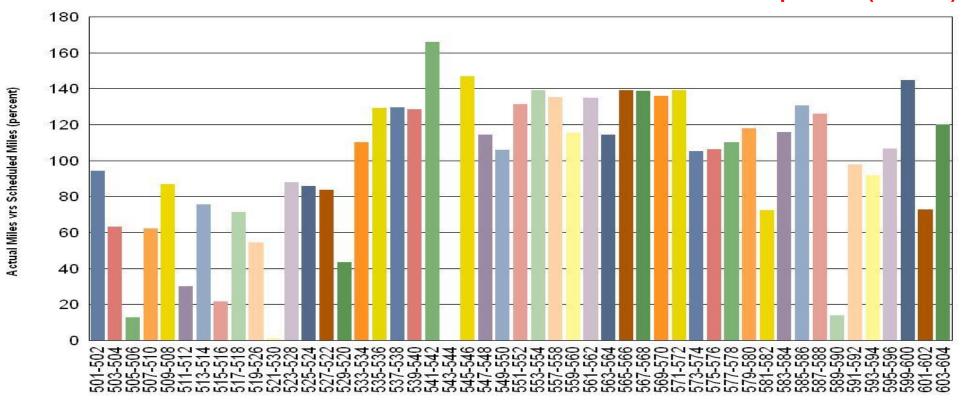
NOTES: Standby trains not included in vehicle requirements





### Vehicle Utilization December 2017

#### Metro Red/Purple Line (98 Cars)



#### **Red/Purple Line:**

The following cars were out of service due to:

Car # 505-506 - Coupler Overhaul Campaign

Car # 511-512 – Friction Brake Overhaul Campaign

Car # 515-516 - Propulsion Fault

Car # 521-530 - Aux Power Fault

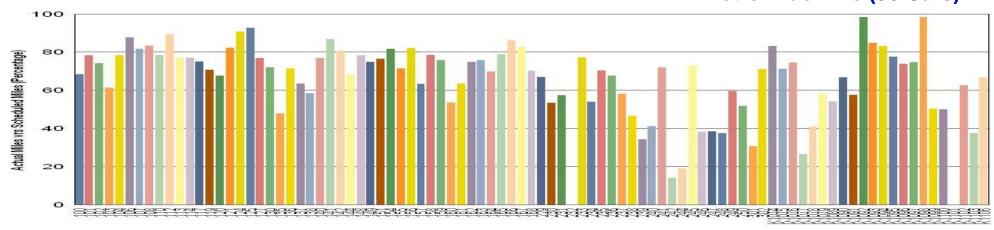
Car # 543-544 - Interior Renovation Campaign

Car # 589-590 - Propulsion Fault



### Vehicle Utilization December 2017





#### Blue Line: The following cars were out of service

#### due to:

Car # 232 – Off the Property for Midlife Overhaul

Car # 239 - Door Overhaul

Car # 242 – Exterior Paint Restoration

Car # 244 – Exterior Paint Restoration

Car # 246 - Propulsion Fault / Work Orders

Car # 247 – Dynamic Brake Fault

Car # 248 – 45K Inspection / Work Orders

Car # 301 – Door Wiring Issue

Car # K1077 - Warranty Work Orders

Car # K1101 - Delivered to Div 11 on 01-05-2018

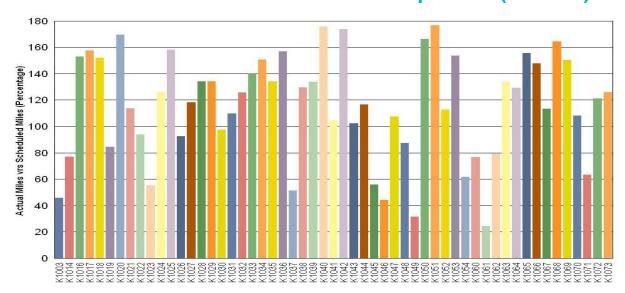
Car # K1103 - Warranty Work Orders

#### **Expo Line:** The following cars were out of service due to:

Car # K1049 - KI Performing Engineering

Car # K1061 – Windshield Holes Improperly Drilled

#### **Metro Expo Line (55 Cars)**





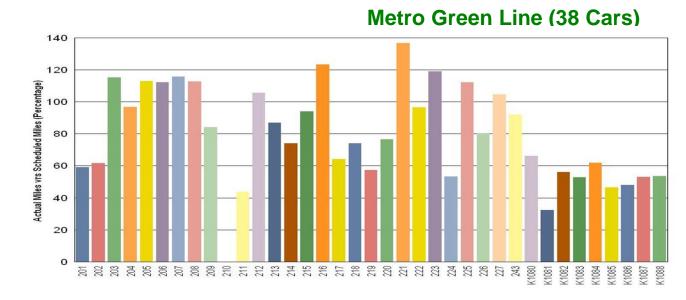
### Vehicle Utilization December 2017

#### **Green Line:**

The following cars were out of service due to:

Car # 210 - Midlife Overhaul

**Car # K1081** – Car was transferred from the Blue Line December 19<sup>th</sup>.



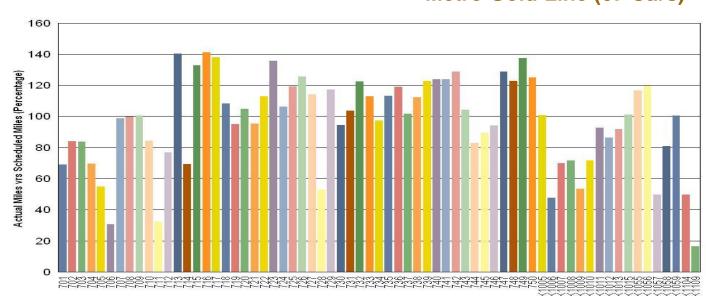
#### **Metro Gold Line (67 Cars)**

#### **Gold Line:**

The following cars were out of service due to:

Car # 706– 120K PM Inspection Mileage Hold Car # 711– Propulsion Repairs and 120K PM Inspection

Car # K1109 – Newly Commissioned Car (not in-service for the complete month)

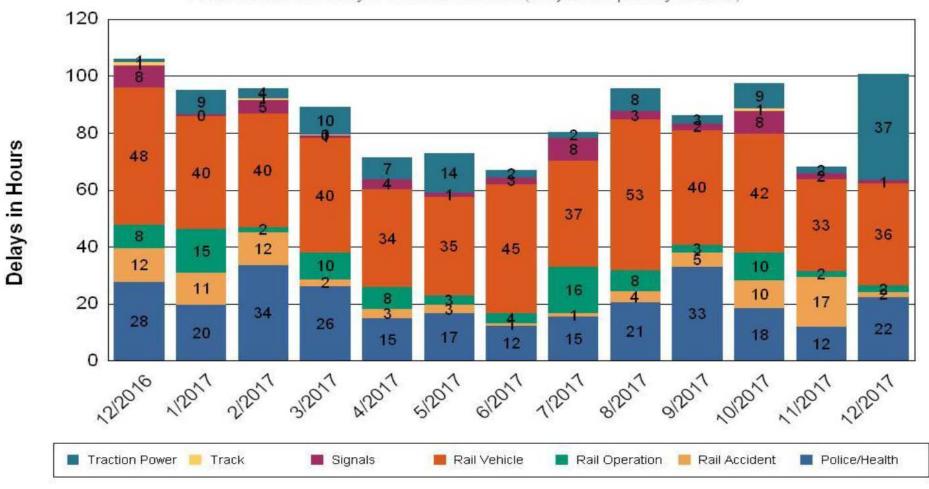




### All Train Delays (Hours) December 2016-2017

#### **All Train Delays**

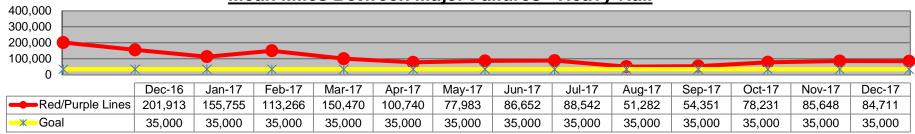
Totals Include the delay to all trains involved (not just the primary incident)

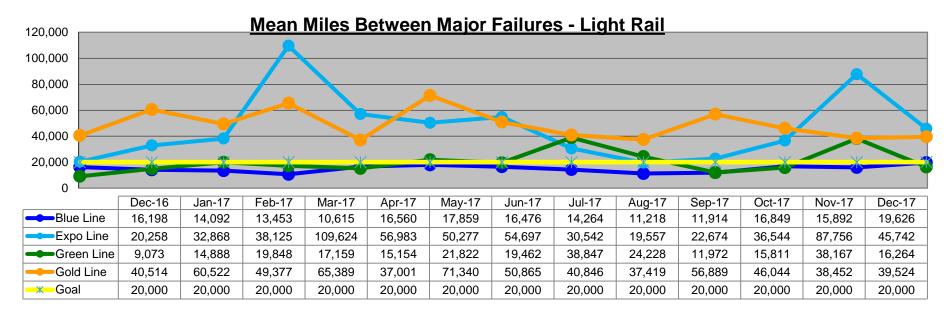




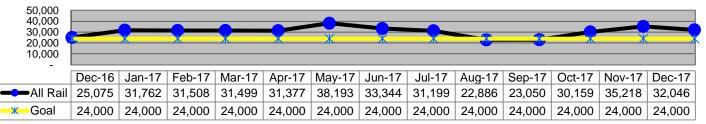
### Mean Miles Between Major Failures (MMBF) December 2016-2017

#### Mean Miles Between Major Failures - Heavy Rail





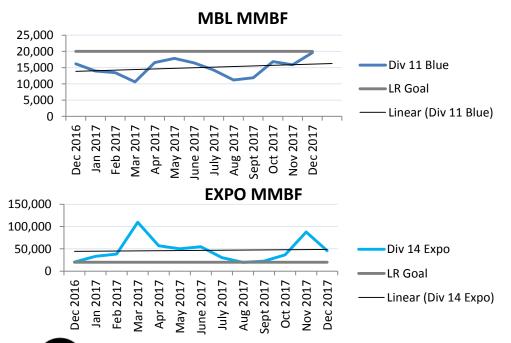
#### Mean Miles Between Major Failures (all)

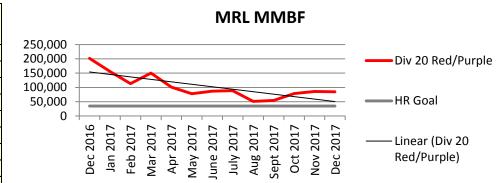


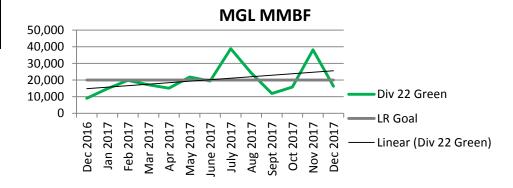


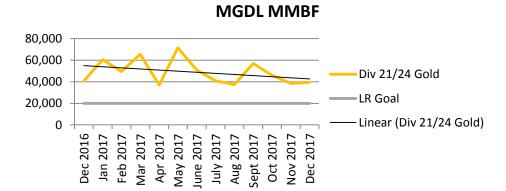
### MMBF by Division December 2016-2017

	Div 11	Div 14	Div 20	Div 22	Div 21/24		
Month	Blue	Ехро	Red/Purple	Green	Gold	LR Goal	HR Goal
Dec 2016	16,198	20,258	201,913	9,073	40,514	20,000	35,000
Jan 2017	13,950	33,309	155,755	14,888	60,522	20,000	35,000
Feb 2017	13,453	38,125	113,266	19,848	49,377	20,000	35,000
Mar 2017	10,615	109,624	150,470	17,159	65,389	20,000	35,000
Apr 2017	16,560	56,983	100,740	15,154	37,001	20,000	35,000
May 2017	17,859	50,277	77,983	21,822	71,340	20,000	35,000
June 2017	16,476	54,697	86,652	19,462	50,865	20,000	35,000
July 2017	14,264	30,542	88,542	38,847	40,846	20,000	35,000
Aug 2017	11,218	19,557	51,282	24,228	37,419	20,000	35,000
Sept 2017	11,914	22,674	54,351	11,972	56,889	20,000	35,000
Oct 2017	16,849	36,544	78,231	15,811	46,044	20,000	35,000
Nov 2017	15,892	87,756	85,648	38,167	38,452	20,000	35,000
Dec 2017	19,626	45,742	84,711	16,264	39,524	20,000	35,000

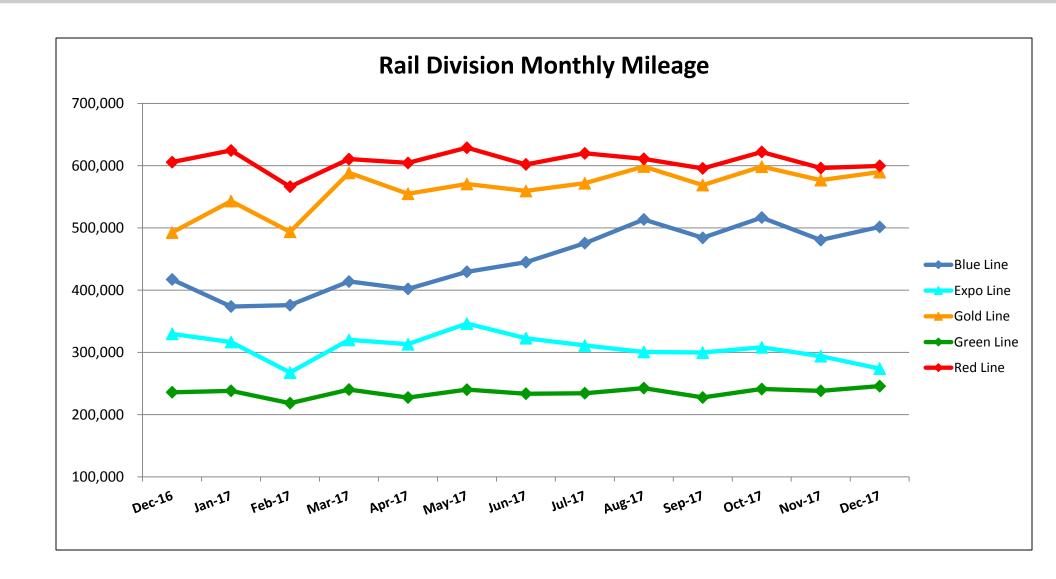






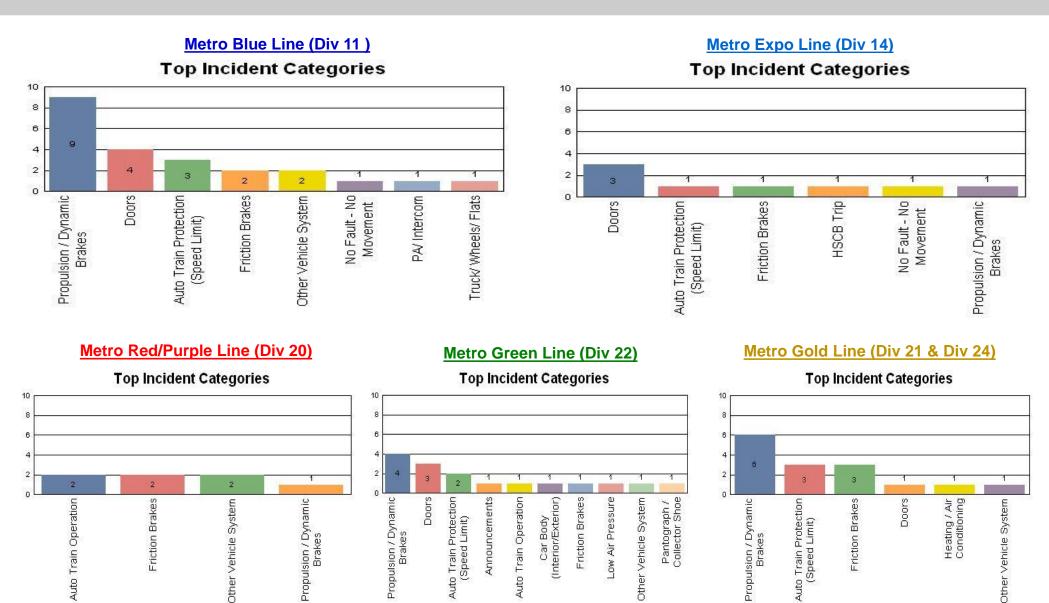


### Mileage Between Data Range (by month) December 2016-2017





### Top Incident Categories December 2017





# Major Incidents **December 2016-2017**

#### **Numbers of Major System Failures (by Line)**



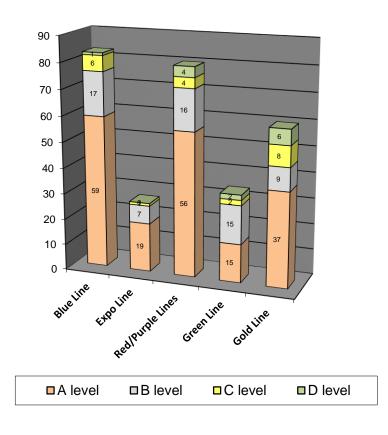


# Preventive Maintenance Compliance December 2016-2017

PM Compliance	Dec-16	Jan-17	Feb-17	Mar-17	Apr-17	May-17	Jun-17	Jul-17	Aug-17	Sep-17	Oct-17	Nov-17	Dec-17
Blue Line	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
Expo Line	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%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
Gold Line	100%	100%	100%	100%	100%	100%	98%	100%	100%	100%	100%	100%	100%

Number of Preve	ntive Maint	enance In	spections -	December	2017
Line	A level	B level	C level	D level	Totals
Blue Line	59	17	6	1	83
Expo Line	19	7	1	0	27
Red/Purple Lines	56	16	4	4	80
Green Line	15	15	2	2	34
Gold Line	37	9	8	6	60
Totals:	186	64	21	13	284

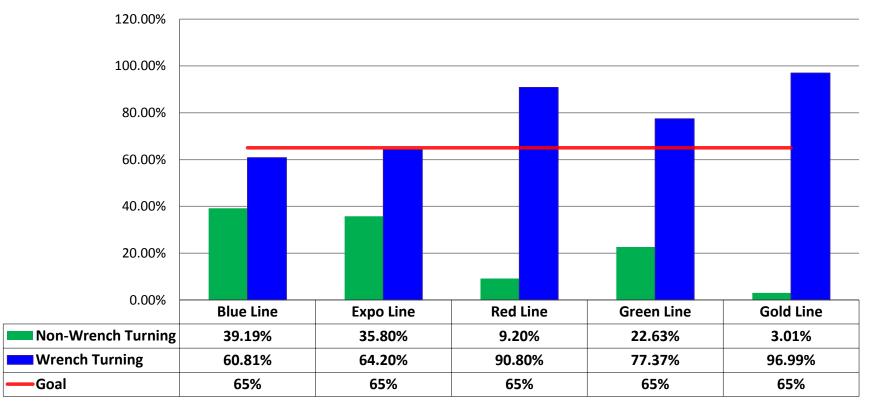
Explanation of PM	Inspection levels		Mile	S	
Line	Туре	A level	B level	C level	D level
Blue/Expo Lines	P865/P2020	5,000	15,000	30,000	60,000
Blue/Expo Lines	P2000	7,500	22,500	45,000	90,000
Red/Purple Lines	A650	7,500	22,500	45,000	90,000
Green Line	P2000	7,500	22,500	45,000	90,000
Gold Line	P2550	10,000	30,000	60,000	120,000
Gold/Expo Lines	P3010	10,000	30,000	60,000	120,000





# RFS Leader Wrench Turning December 2017

RFS - Leader Wrench Turning
December 2017

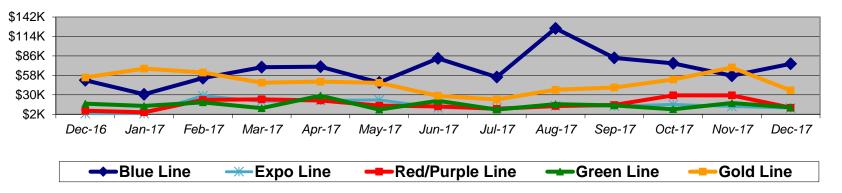


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## Vandalism & Graffiti Report December 2016-2017

						Graffi	ti Costs							
	Dec-16	Jan-17	Feb-17	Mar-17	Apr-17	May-17	Jun-17	Jul-17	Aug-17	Sep-17	Oct-17	Nov-17	Dec-17	13-Month Period
Blue Line	\$51K	\$31K	\$54K	\$70K	\$71K	\$48K	\$83K	\$56K	\$126K	\$83K	\$75K	\$58K	\$75K	\$879K
Expo Line	\$3K	\$3K	\$29K	\$21K	\$22K	\$23K	\$11K	\$11K	\$14K	\$14K	\$16K	\$13K	\$11K	\$192K
Red/Purple Line	\$7K	\$5K	\$23K	\$24K	\$22K	\$14K	\$13K	\$10K	\$14K	\$15K	\$29K	\$29K	\$11K	\$218K
Green Line	\$17K	\$14K	\$19K	\$11K	\$29K	\$9K	\$21K	\$9K	\$17K	\$15K	\$9K	\$18K	\$12K	\$200K
Gold Line	\$55K	\$68K	\$62K	\$48K	\$49K	\$47K	\$29K	\$23K	\$37K	\$41K	\$52K	\$69K	\$37K	\$617K
Totals:	\$133K	\$121K	\$187K	\$172K	\$193K	\$141K	\$158K	\$109K	\$208K	\$168K	\$182K	\$188K	\$146K	\$2,106K



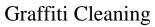
December 20	017 Vand	alis	m & Graf	fiti -	All Rail	-	
	Qty		Labor	М	aterials		Totals
Windows Replaced	44	\$	10,017	\$	26,339	\$	36,356
Vandal Shields Replaced	377	\$	12,450	\$	6,852	\$	19,302
Seats Cleaned	119	\$	520	\$	62	\$	582
Seats Inserts Replaced	729	\$	36,067	\$	26,310	\$	62,377
Graffiti Removal - Other	1,062	\$	17,710	\$	3,350	\$	21,060
Repainting Panels	195	\$	6,143	\$	-	\$	6,143
Totals	2,526	\$	82,907	\$	62,913	\$	145,820



# Vandalism & Graffiti Pictures December 2017

#### **Blue Line**



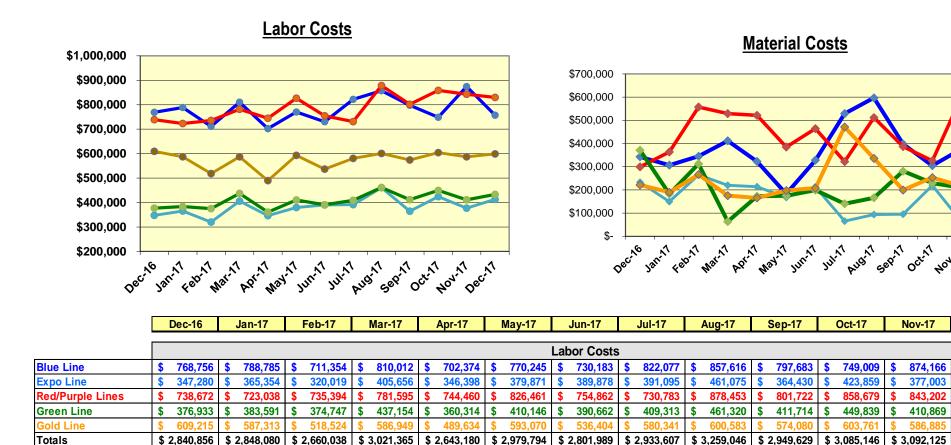


**Metro** 

#### **Green Line**



### Labor and Material Costs December 2016-2017



											N	late	erial Cost	S									
Blue Line	\$ 342,695	\$	306,710	\$	344,931	\$	411,541	\$	322,424	\$	182,846	\$	328,206	\$	529,007	\$	596,865	\$	397,951	\$ 304,627	\$ 376,903	\$	391,572
Expo Line	\$ 233,001	\$	149,260	49	264,561	45	219,980	\$	213,435	49	167,428	\$	212,682	44	65,432	<b>\$\$</b>	93,233	49	94,730	\$ 218,980	\$ 61,966	<b>\$\$</b>	44,504
Red/Purple Lines	\$ 299,157																456,278						
Green Line	\$ 370,755	\$	182,518	\$	312,113	\$	63,371	\$	172,269	\$	174,969	\$	199,040	\$	140,168	\$	165,820	\$	280,752	\$ 229,311	\$ 208,844	\$	163,235
Gold Line	\$ 221,172	\$	189,520	\$	265,930	\$	175,047	\$	165,012	<b>\$\$</b>	197,220	\$	207,555	<b>\$</b>	471,378	\$	336,025	\$	199,318	\$ 253,138	\$ 215,172	\$	359,058
Totals	\$ 1,466,779	\$	1,191,200	\$	1,745,150	\$	1,398,760	\$	1,394,383	\$	1,107,239	\$	1,411,440	\$	1,527,848	\$	1,703,519	\$	1,359,742	\$ 1,331,660	\$ 1,465,553	\$	1,414,648



Dec-17

757,379

413,302

829,663

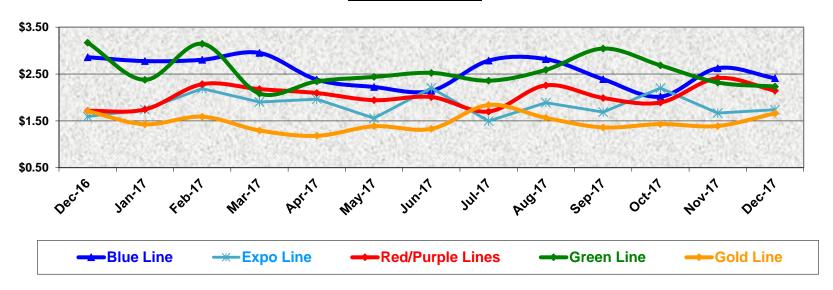
433,318

\$ 3,032,606

# Cost Per Mile December 2016-2017

Cost per mile:	Dec-16	Jan-17	Feb-17	Mar-17	Apr-17	May-17	Jun-17	Jul-17	Aug-17	Sep-17	Oct-17	Nov-17	Dec-17	Average
Blue Line	\$2.86	\$2.78	\$2.80	\$2.95	\$2.38	\$2.22	\$2.14	\$2.79	\$2.82	\$2.39	\$2.02	\$2.62	\$2.41	\$2.55
Expo Line	\$1.59	\$1.74	\$2.19	\$1.90	\$1.96	\$1.56	\$2.20	\$1.49	\$1.89	\$1.69	\$2.20	\$1.67	\$1.74	\$1.83
Red/Purple Lines	\$1.71	\$1.74	\$2.28	\$2.18	\$2.09	\$1.94	\$2.01	\$1.70	\$2.26	\$1.99	\$1.89	\$2.41	\$2.14	\$2.03
Green Line	\$3.17	\$2.38	\$3.15	\$2.08	\$2.34	\$2.44	\$2.52	\$2.36	\$2.59	\$3.04	\$2.68	\$2.32	\$2.23	\$2.56
Gold Line	\$1.71	\$1.43	\$1.59	\$1.29	\$1.18	\$1.38	\$1.33	\$1.84	\$1.56	\$1.36	\$1.43	\$1.39	\$1.66	\$1.47

#### **Cost per Mile**





## ATU Absences vs. Overtime December 2017

ABSENCE TYPE and HOURS	3941 Blue	3947 Expo	3942 Red	3943 Green	3944 Gold	3948 Monrovia	Total
AWP-ABSENT W/O PERMISSION	_	_	_	_	_	8	8
BER-BEREAVEMENT	24	_	_	_	_	-	24
CTO-COMPENSATORY TIME OFF	335	118	292	112	12	202	1,070
CUT-EMPLOYEE LEAVES EARLY	2	2	-	-	-	-	3
DSL-DISABILITY LEAVE/LONG	56	168	184	520	-	-	928
EFH-EMG. FLOAT HOL.	24	-	104	32	16	40	216
ETO-EXCUSED TIME OFF	90	90	53	9	2	32	276
FMI-FAM IND INJURY	-	_	112	176	-	=	288
FML-FAMILY CARE LEAVE	496	8	292	286	160	483	1,724
FMS-FAMILY LEAVE SICK	77	-	173	56	72	187	565
HLF-HOLIDAY FLOATING	376	80	304	160	16	244	1,180
HNP-HOLIDAY NOT PAID	8	-	-	16	_	-	24
HOL-HOLIDAY LEGAL	616	224	656	160	106	384	2,146
II-INDUSTRIAL INJURY	_	-	-	-	_	16	16
IS-INVESTIGATIVE SUSPENSION	168	-	-	106	_	-	274
JUR-JURY DUTY	48	24	-	-	_	24	96
LC1-LABOR CODE 233	84	68	235	120	8	200	715
LTI-OCCPIL/LONGTRM INJ LEAVE	288	184	224	192	_	-	888
MLN-MILITARY ABSENCE-UNPAID	_	-	8	-	_	-	8
OWP-OFF WITH PERMISSION	8	-	-	-	_	-	8
RTO-REQUESTED TIME OFF-NO PAY	92	1	20	Ī	8	2	122
SCK-SICK PAY	329	112	253	112	72	212	1,090
SCW-SICK WITHOUT PAY	104	96	24	92	3	20	339
SPN-SCHOOL PARTNER NOT PAID	-	_	_	=	8	_	8
SUS-DISCIPLINARY SUSPENSION	_	-	-	40	_	-	40
TAR-TARDY	3	1	1	2	0	1	8
UNP-UNION BUS PAID	=	16	-	=	_	-	16
VAC-VACATION	1,373	344	1,512	536	192	694	4,651
VAS-VACATION WHILE SICK	-	_	20	-	_	-	20
*TRAINING	271	35	76	463	22	57	924
<b>Total Absence Hours</b>	4,871	1,569	4,544	3,189	696	2,805	17,674
**ATU Number of Work Force (active)	107	40	106	43	17	59	372
Full Work Force hours/month	18,543	6,932	18,370	7,452	2,946	10,226	64,468
Absence as a % of Work Force	26%	23%	25%	43%	24%	27%	27%

OVERTIME TYPE and HOURS	3941 Blue	3947 Expo	3942 Red	3943 Green	3944 Gold	3948 Monrovia	Total
CTB-COMPENSATORY TIME TO BANK	160	68	171	58	8	74	539
OTP-PREM OVERTIME	3,837	2,118	3,801	2,498	45	1,275	13,574
WLO-Worked Lunch Overtme	135	132	276	107	21	96	765
Total Overtime Hours	4,131	2,318	4,248	2,662	74	1,445	14,878
Overtime as a % of Work Force	22%	33%	23%	36%	3%	14%	23%

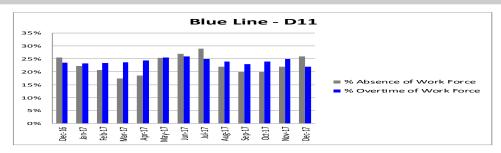
<sup>\*</sup>Training hours captured by Instruction Department are added to Absences Report.

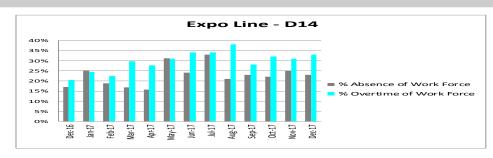
<sup>\*\*</sup>ATU Employee Numbers from ATU Manpower Status Report (last week of the month)

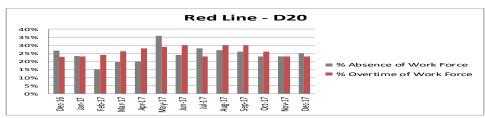


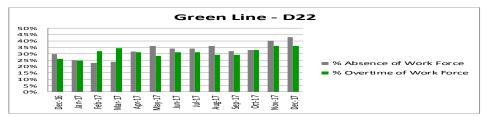
Note: Overtime also covers other required activities, including Training, Component Overhaul, and Special Events.

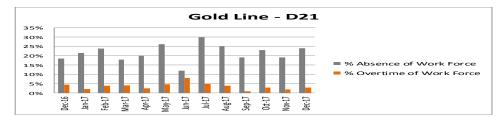
## ATU - %Absence & %Overtime of Work Force December 2016 - 2017

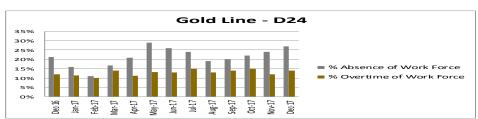












% Abse	nce of Work Force	Dec-16	Jan-17	Feb-17	Mar-17	Apr-17	May-17	Jun-17	Jul-17	Aug-17	Sep-17	Oct-17	Nov-17	Dec-17	13-Month Average
	Blue Line D11	26%	22%	21%	17%	19%	25%	27%	29%	22%	20%	20%	22%	26%	23%
	Expo Line D14	17%	25%	19%	17%	16%	31%	24%	33%	21%	23%	22%	25%	23%	23%
	Red Line D20	27%	23%	15%	20%	20%	36%	24%	28%	27%	26%	23%	23%	25%	24%
	Green Line D22	30%	25%	23%	24%	32%	36%	34%	34%	36%	32%	33%	40%	43%	32%
	Gold Line D21	18%	21%	24%	18%	20%	26%	12%	30%	25%	19%	23%	19%	24%	22%
	Gold Line D24	21%	16%	11%	17%	21%	29%	26%	24%	19%	20%	22%	24%	27%	21%

% Overti	ime of Work Force	Dec-16	Jan-17	Feb-17	Mar-17	Apr-17	May-17	Jun-17	Jul-17	Aug-17	Sep-17	Oct-17	Nov-17	Dec-17	13-Month Average
	Blue Line D11	24%	23%	23%	24%	24%	26%	26%	25%	24%	23%	24%	25%	22%	24%
	Expo Line D14	20%	24%	22%	30%	28%	31%	34%	34%	38%	28%	32%	31%	33%	30%
	Red Line D20	23%	23%	24%	26%	28%	29%	30%	23%	30%	30%	26%	23%	23%	26%
	Green Line D22	26%	25%	32%	34%	31%	28%	31%	31%	29%	29%	33%	36%	36%	31%
	Gold Line D21	5%	2%	4%	4%	2%	5%	2%	5%	4%	1%	3%	2%	3%	3%
	Gold Line D24	12%	11%	10%	14%	11%	13%	13%	15%	13%	14%	15%	12%	14%	13%

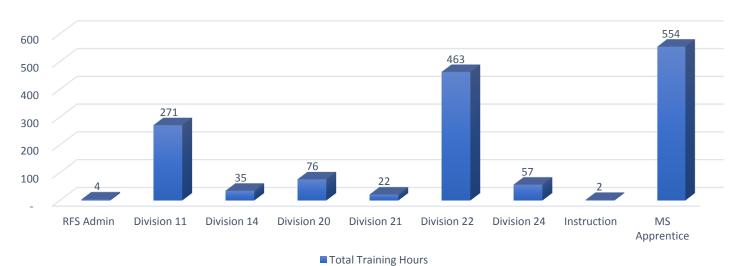


# Training - RFS Instruction Department December 2017

#### **RFS Training Hours**

Team	No. Employees
RFS Admin	3
Division 11	88
Division 14	25
Division 20	88
Division 21	17
Division 22	34
Division 24	42
Instruction	2
MS Apprentice	11
<b>Grand Total</b>	310

Vehicle Training	RFS Other	Metro Provided	<b>Total Training Hours</b>
-	-	4	4
160	33	78	271
-	-	35	35
-	-	76	76
-	1.5	20	22
360	3	100	463
-	1.5	56	57
-	-	2	2
240	282	32	554
760	321	402	1483



#### Description

Vehicle Training = Training related to Fleet Maintenance

RFS Other = Training Created by RFS Instruction but not related to Vehicle Training

Metro Provided = Training provided outside RFS Training (OD&T, Transportation)

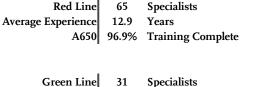
Total Training Hours = Total amount of man-hours spent by RFS in any kind of training



# Maintenance Specialists Vehicle Training Levels December 2017







9.2

Years

92.4% Training Complete

**Training Complete** 

Average Experience

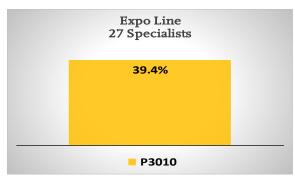
P2000

Gold Line

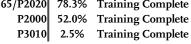
Average Experience

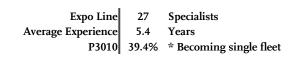
P3010 5.5%





		Specialists
Average Experience	13.2	Years
P865/P2020	78.3%	<b>Training Complete</b>



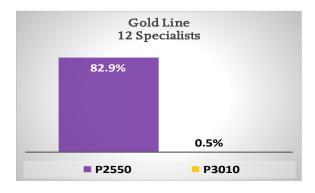


12

5.8

**Specialists** 

Years





P2550 P3010	82.9% 0.5%	Training Complete Training Complete
Gold Line Monrovia	37	Specialists
Average Experience	7.2	Years
P2550	82.4%	<b>Training Complete</b>
P3010	30.1%	Training Complete

\* SHIFT IN NUMBERS REPRESENT THE MOVEMENT OF EMPLOYEES WITH LESS EXPERIENCE AND TRAINING, BUCH AS APPRENTICES MOVING TO THE MAINTENANCE SPECIALIST LEVEL

