

# Rail Fleet Services Monthly Report November 2017



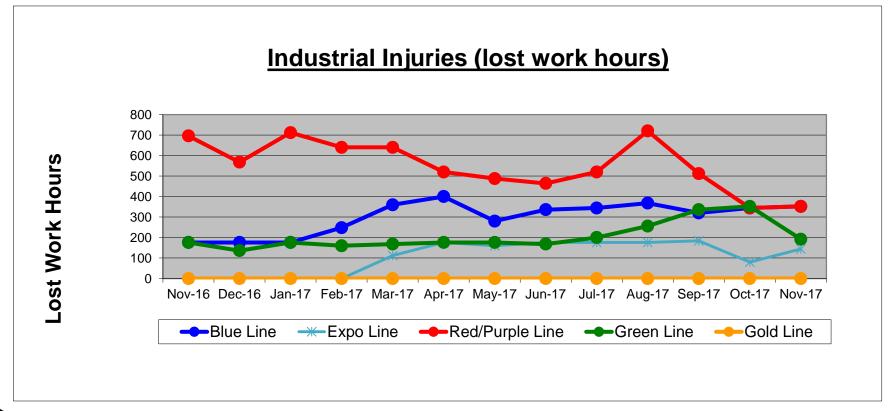
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# Industrial Injuries – Lost Work Hours November 2016-2017

	Nov-16	Dec-16	Jan-17	Feb-17	Mar-17	Apr-17	May-17	Jun-17	Jul-17	Aug-17	Sep-17	Oct-17	Nov-17	13-Month Period
Blue Line	176	176	176	248	360	400	280	336	344	368	320	344	352	3,880
Expo Line	0	0	0	0	112	176	160	176	176	176	184	80	144	1,384
Red/Purple Line	696	568	712	640	640	520	488	464	520	720	512	344	352	7,176
Green Line	176	136	176	160	168	176	176	168	200	256	336	352	192	2,672
Gold Line	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Totals	1,048	880	1,064	1,048	1,280	1,272	1,104	1,144	1,240	1,520	1,352	1,120	1,040	15,112





# Rail Vehicle Accidents & Major Incidents November 2016-2017

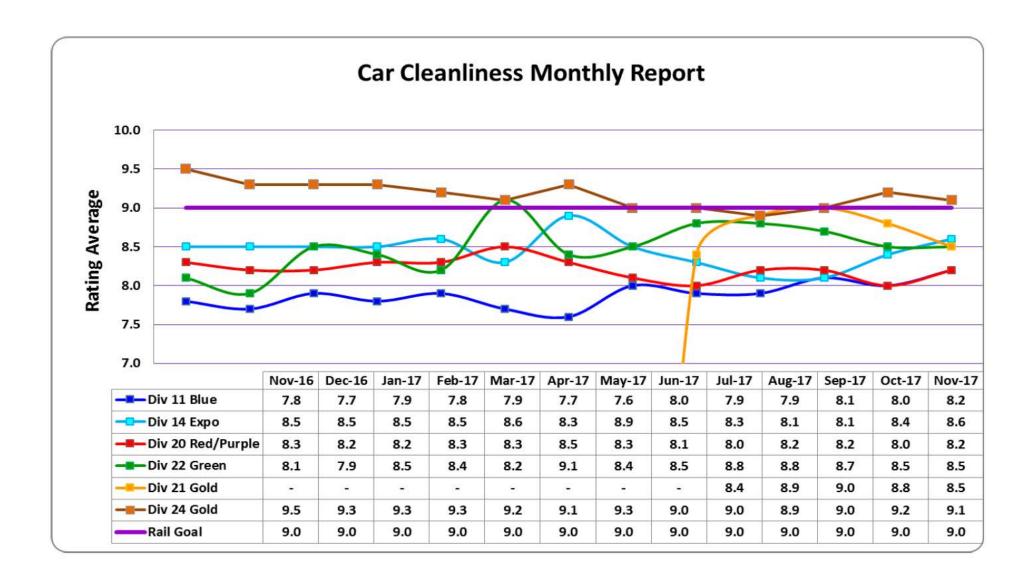
Repair Costs	Nov-16	Dec-16	Jan-17	Feb-17	Mar-17	Apr-17	May-17	Jun-17	Jul-17	Aug-17	Sep-17	Oct-17	Nov-17	13-Month Period
Blue Line	\$0	\$2,352	\$170,311	\$0	\$1,427	\$2,586	\$0	\$15,084	\$632	\$268	\$3,683	\$31,202	\$1,016	\$228,561
Expo Line	\$0	\$381	\$763	\$1,930	\$0	\$1,420	\$0	\$0	\$0	\$191	\$0	\$25,571	\$597	\$30,853
Red/Purple Line	\$0	\$0	\$0	\$1,032	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,032
Green Line	\$0	\$0	\$0	\$0	\$0	\$334	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$334
Gold Line	\$0	\$0	\$3,789	\$15,829	\$1,871	\$191	\$2,692	\$0	\$0	\$0	\$1,343	\$5,751	\$0	\$31,466
Totals	\$0	\$2,733	\$174,863	\$18,791	\$3,298	\$4,531	\$2,692	\$15,084	\$632	\$459	\$5,026	\$62,524	\$1,613	\$292,246

		Rail Vo	ehicle Accident Costs - November 2017				
Date	Incident #	Problem Code	Incident Description	Rep	air Cost		
Metro Blu	e Line						
11/1/17	2929438	Train vs. Vehicle	A 10-73 was reported at 20th and Long Beach Blvd., Track 1.	\$	396		
11/21/17	2937218	Train vs. Vehicle	A 10-73 was reported at Washington and Olive, Track 2, SB.	\$	620		
			Metro Blue Line Total	\$	1,016		
Metro Exp	o Line						
11/15/17	2934984	Train vs. Vehicle	A 10-73 was reported at 28th and Flower, SB.	\$	597		
			Metro Expo Line Total	\$	597		
			Grand Total	\$	1,613		
1	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.

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





### Service Delivery November 2017

Blue I	Line Fl	leet Size:	99
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Pull Out	Vehicles Required	Available	% Up (Down)
Weekday:	72	76	106%
Weekend:	26	59	227%

Average

Average

Average

Monthly Mileage: 476,766

#### **Expo Line Fleet Size: 52**

		<u>Average</u>	
Pull Out	Vehicles Required	<u>Available</u>	% Up (Down)
Weekday:	42	40	95%
Weekend:	30	36	120%

Monthly Mileage: 263,269

#### Red/Purple Line Fleet Size: 98

Pull Out	Vehicles Required	Available	% Up (Down)
Weekday:	64	72	113%
Weekend:	40	66	165%

Monthly Mileage: 599,536

#### **Green Line Fleet Size: 31**

Pull Out	Vehicles Required	Available	% Up (Down)
Weekday:	22	24	109%
Weekend:	14	19	136%

Monthly Mileage: 267,170

#### **Gold Line Fleet Size: 65**

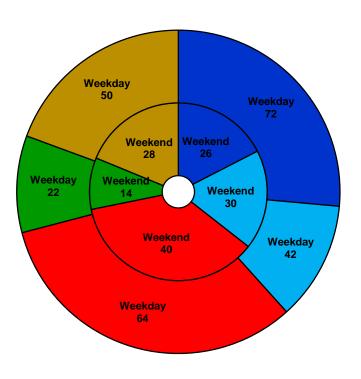
		<u>Average</u>	
Pull Out	Vehicles Required	<u>Available</u>	% Up (Down)
Weekday (Div 21):	10	10	100%
Weekday (Div 24):	40	42	105%
Weekend (Div 24):	28	41	146%

\*Monthly Mileage: 576,780

\* Gold Line monthly mileage includes Division 21 and 24.

NOTES: Standby trains not included in vehicle requirements

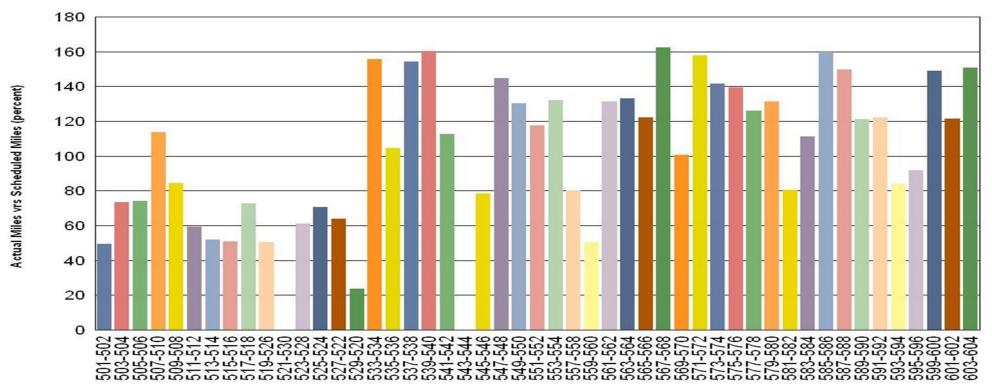




■Blue Line	■Expo Line	■Red/Purple Line
■Green Line	■Gold Line	

# Vehicle Utilization November 2017

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



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

The following cars were out of service due to:

Car # 521-530 – ATP Issue – Overshoot at Platform

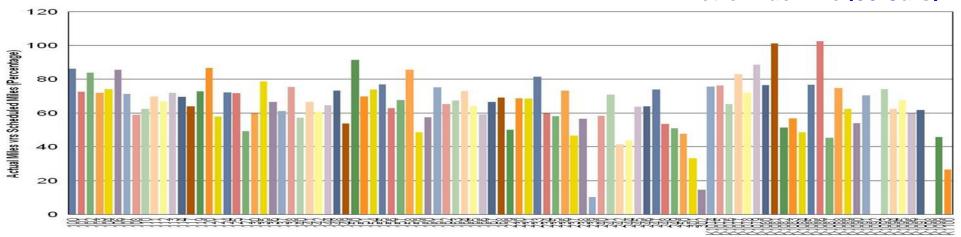
Car # 529-520 – Propulsion Failure pending to rebuild a part in house

Car # 543-544 - Interior Renovation



# Vehicle Utilization November 2017





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

Car # 239 - Door Overhaul

Car # 301 – Broken Windows/Train Line Issue/Air

Compressor Replacement

Car # 302 – Exterior Paint Rehabilitation

Car # K1092 - Delivered to Div 11 on 12-02-2017

Car # K1098 – Delivered to Div 11 on 12-02-2017

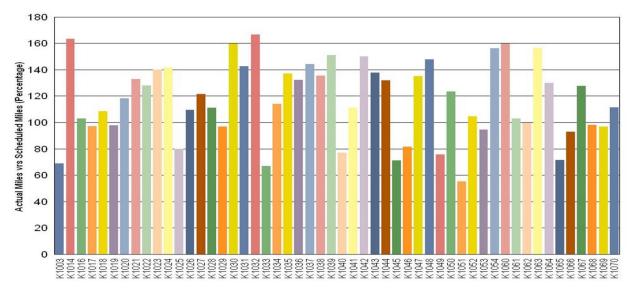
Car # K1100 – Delivered to Div 11 on 11-21-2017/

Warranty Work

### **Expo Line:** There were no vehicles under-utilized during the month of November 2017.

# Metro

#### **Metro Expo Line (52 Cars)**



# Vehicle Utilization November 2017

#### **Metro Green Line (32 Cars)**

#### **Green Line:**

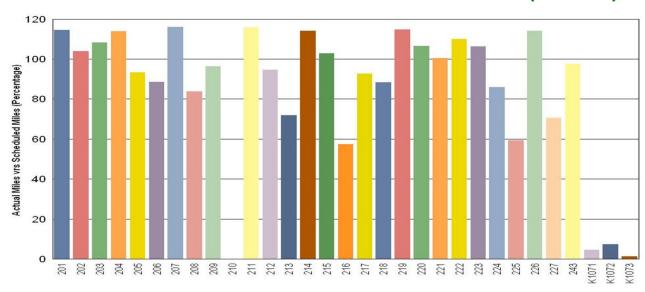
The following cars were out of service due to:

**Car # 210** – Extensive damage due to Pantograph Entanglement

Car # K1071 – Being used for Transportation training

Car # K1072 – Being used for Transportation training

Car # K1073 – Being used for Transportation training



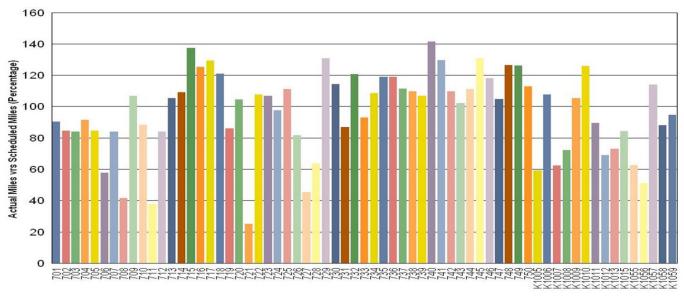
#### **Metro Gold Line (65 Cars)**

#### **Gold Line:**

The following cars were out of service due to:

Car # 711 – Auxiliary Inverter Problem
Car # 721 – Journal Bearing Replacement

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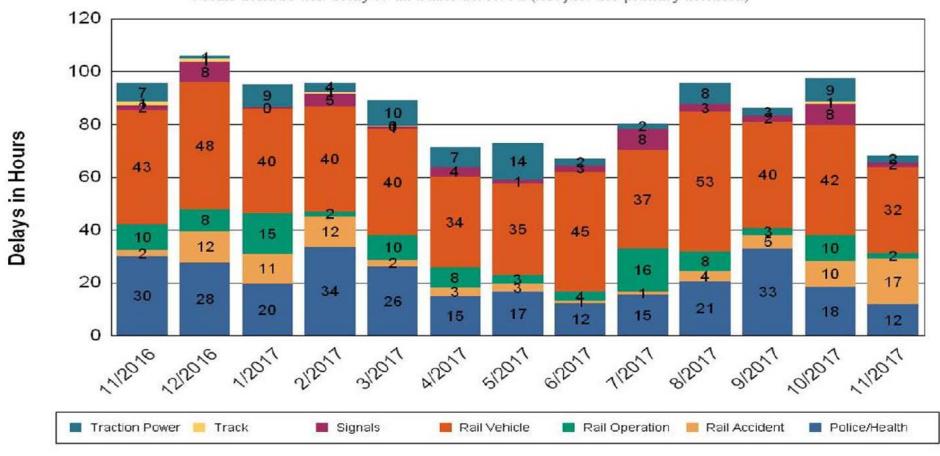




# All Train Delays (Hours) November 2016-2017

### **All Train Delays**

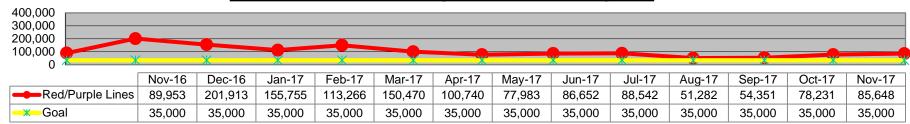
Totals Include the delay to all trains involved (not just the primary incident)



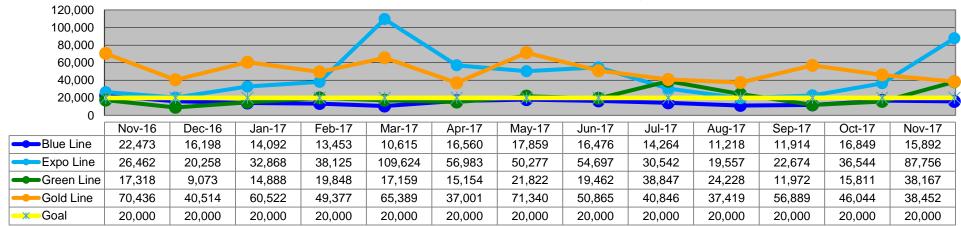


### Mean Miles Between Major Failures (MMBF) November 2016-2017

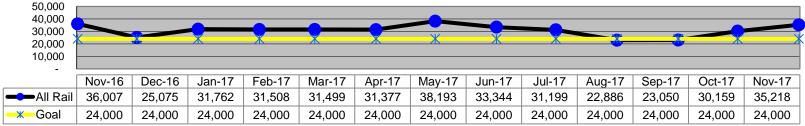
#### Mean Miles Between Major Failures - Heavy Rail



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



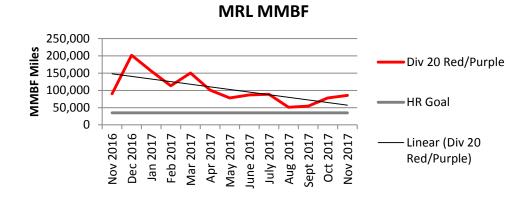
#### Mean Miles Between Major Failures (all)

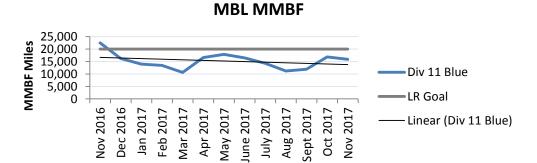


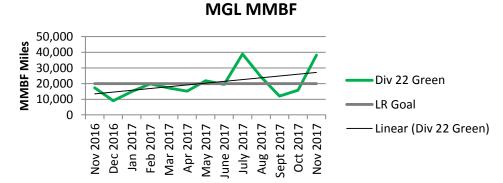


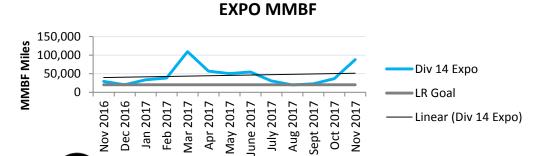
# MMBF by Division November 2016-2017

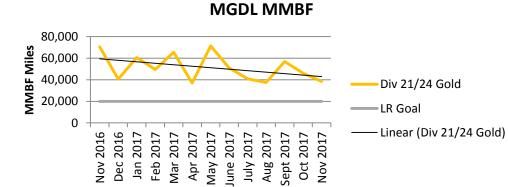
	Div 11	Div 14	Div 20	Div 22	Div 21/24		
Month	Blue	Expo	Red/Purple	Green	Gold	LR Goal	HR Goal
Nov 2016	22,473	29,108	89,953	17,318	70,436	20,000	35,000
Dec 2016	16,198	20,258	201,913	9,073	40,514	20,000	35,000
Jan 2017	13,950	33,309	155,755	14,888	60,522	20,000	35,000
Feb 2017	13,453	38,125	113,266	19,848	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



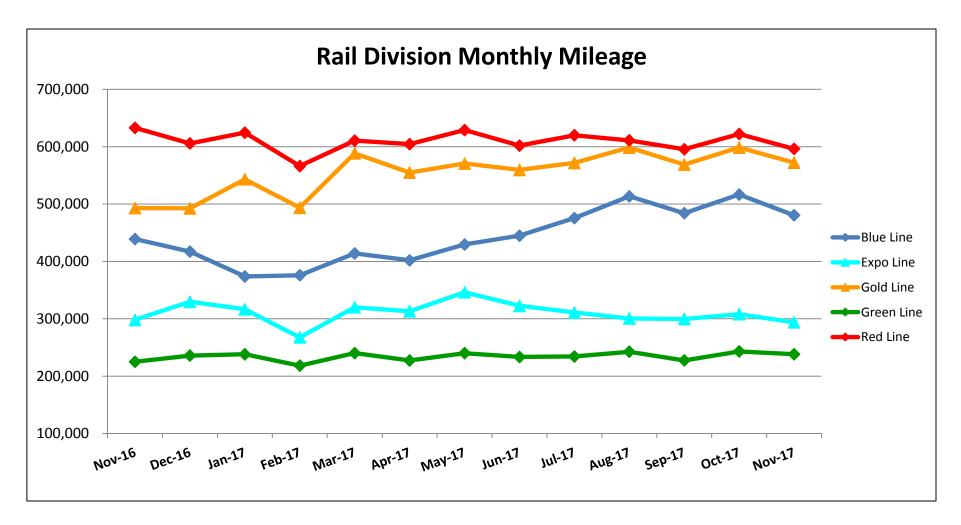








### Mileage Between Data Range (by month) November 2016-2017

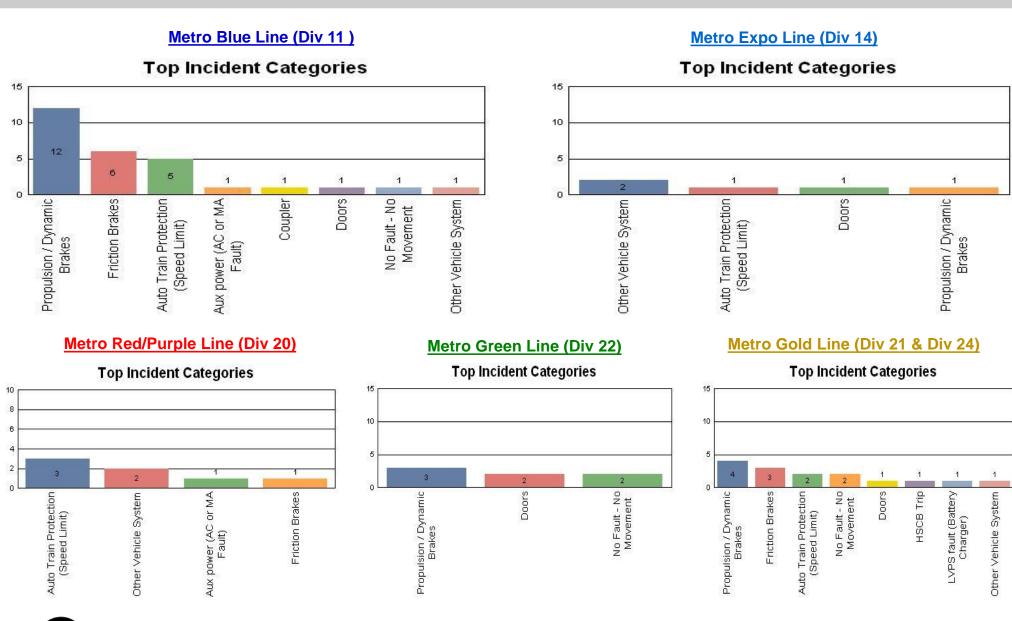


#### Notes:

- Gold Line increase in mileage is due to the open of the Foothill extension, which includes stations further apart and faster average running speeds.
- With the opening of Division 14 in Santa Monica, the Expo Line mileage is now being reported separately from the Blue Line.



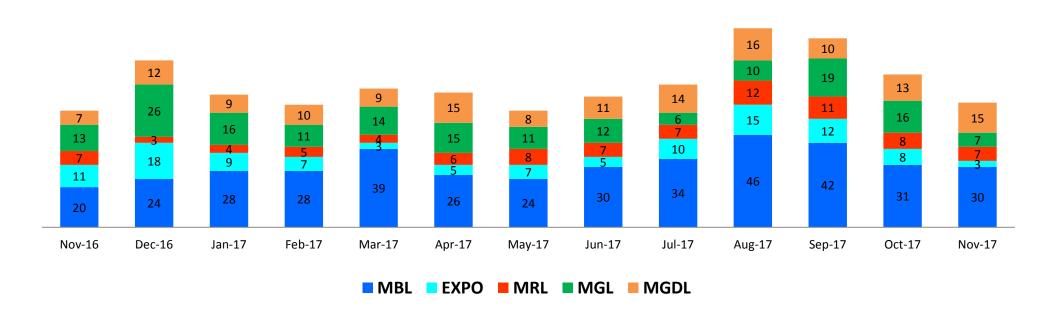
# Top Incident Categories November 2017





# Major Incidents November 2016-2017

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



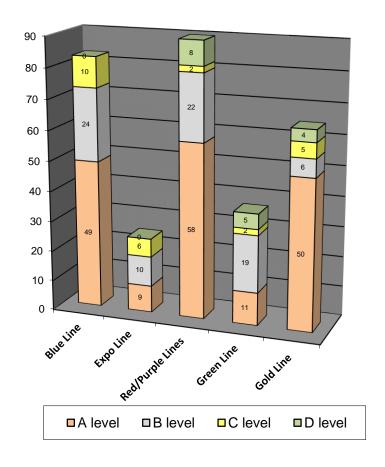


### Preventive Maintenance Compliance November 2016-2017

PM Compliance	Nov-16	Dec-16	Jan-17	Feb-17	Mar-17	Apr-17	May-17	Jun-17	Jul-17	Aug-17	Sep-17	Oct-17	Nov-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%
<b>Gold Line</b>	100%	100%	100%	100%	100%	100%	100%	98%	100%	100%	100%	100%	100%

Number of Preve	ntive Maint	enance In	spections -	November	2017
Line	A level	B level	C level	D level	Totals
Blue Line	49	24	10	0	83
Expo Line	9	10	6	0	25
Red/Purple Lines	58	22	2	8	90
Green Line	11	19	2	5	37
Gold Line	50	6	5	4	65
Totals:	177	81	25	17	300

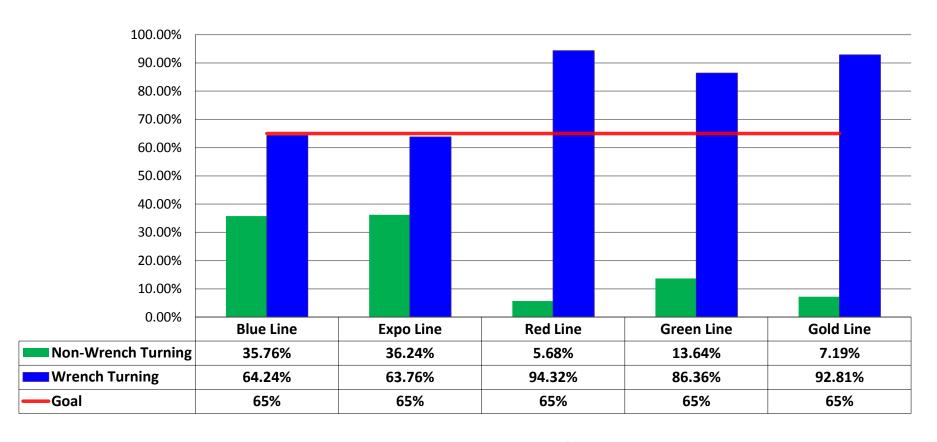
Explanation of PM	Inspection levels		Mile	S	
Line	Туре	A level	B level	C level	D level
Blue/Expo Lines	P865/P2020	5,000	15,000	30,000	60,000
Blue/Expo Lines	P2000	7,500	22,500	45,000	90,000
Red/Purple Lines	A650	7,500	22,500	45,000	90,000
Green Line	P2000	7,500	22,500	45,000	90,000
Gold Line	P2550	10,000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





# RFS Leader Wrench Turning November 2017

RFS - Leader Wrench Turning
November 2017

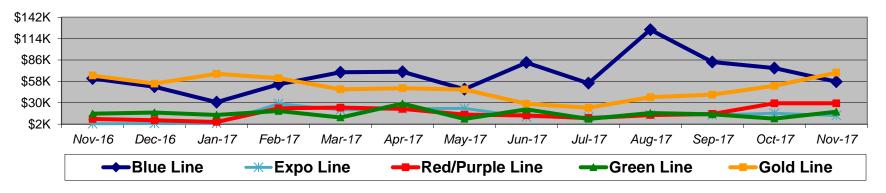


Notes: Labor hours contributed by Maint Specialist Leader, Rail Body/Paint Repair Leader, and Maint Specialist Temporary Leader



### Vandalism & Graffiti Report November 2016-2017

	Graffiti Costs														
	Nov-16	Dec-16	Jan-17	Feb-17	Mar-17	Apr-17	May-17	Jun-17	Jul-17	Aug-17	Sep-17	Oct-17	Nov-17	13-Month Period	
Blue Line	\$62K	\$51K	\$31K	\$54K	\$70K	\$71K	\$48K	\$83K	\$56K	\$126K	\$83K	\$75K	\$58K	\$866K	
Expo Line	\$2K	\$3K	\$3K	\$29K	\$21K	\$22K	\$23K	\$11K	\$11K	\$14K	\$14K	\$16K	\$13K	\$183K	
Red/Purple Line	\$9K	\$7K	\$5K	\$23K	\$24K	\$22K	\$14K	\$13K	\$10K	\$14K	\$15K	\$29K	\$29K	\$215K	
Green Line	\$16K	\$17K	\$14K	\$19K	\$11K	\$29K	\$9K	\$21K	\$9K	\$17K	\$15K	\$9K	\$18K	\$204K	
Gold Line	\$66K	\$55K	\$68K	\$62K	\$48K	\$49K	\$47K	\$29K	\$23K	\$37K	\$41K	\$52K	\$69K	\$646K	
Totals:	\$154K	\$133K	\$121K	\$187K	\$172K	\$193K	\$141K	\$158K	\$109K	\$208K	\$168K	\$182K	\$188K	\$2,114K	



November 2017 Vandalism & Graffiti - All Rail														
Qty Labor Materials														
Windows Replaced	69	\$	18,585	\$	31,191	\$	49,776							
Vandal Shields Replaced	676	\$	25,378	\$	8,535	\$	33,913							
Seats Cleaned	94	\$	432	\$	62	\$	494							
Seats Inserts Replaced	683	\$	26,293	\$	34,012	\$	60,305							
Graffiti Removal - Other	1,026	\$	19,392	\$	16,249	\$	35,641							
Repainting Panels	245	\$	7,718	\$	-	\$	7,718							
Totals	2,793	\$	97,798	\$	90,049	\$	187,847							



# Vandalism & Graffiti Pictures November 2017

### **Blue Line**

### **Green Line**

### **Expo Line**

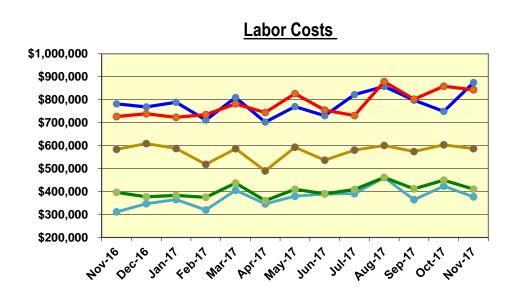


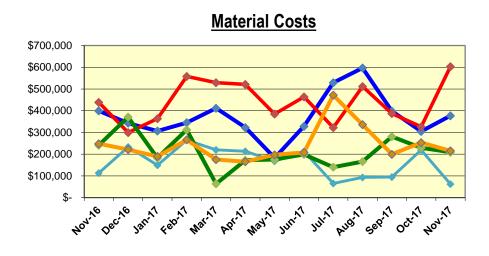






# Labor and Material Costs November 2016-2017





	No	v-16	Dec-16	Jan-17	Feb-17	Mar-17	Apr-17	May-17	Jun-17	Jul-17	Aug-17	Sep-17	Oct-17	Nov-17
								Labor Costs	5					
Blue Line	\$ 78	81,662	\$ 768,756	\$ 788,785	\$ 711,354	\$ 810,012	\$ 702,374	\$ 770,245	\$ 730,183	\$ 822,077	\$ 857,616	\$ 797,683	\$ 749,009	\$ 874,166
Expo Line	\$ 3'	11,627	\$ 347,280	\$ 365,354	\$ 320,019	\$ 405,656	\$ 346,398	\$ 379,871	\$ 389,878	\$ 391,095	\$ 461,075	\$ 364,430	\$ 423,859	\$ 377,003
Red/Purple Lines	\$ 72	27,093	\$ 738,672	\$ 723,038	\$ 735,394	\$ 781,595	\$ 744,460	\$ 826,461	\$ 754,862	\$ 730,783	\$ 878,453	\$ 801,722	\$ 858,679	\$ 843,202
Green Line	\$ 39	96,278	\$ 376,933	\$ 383,591	\$ 374,747	\$ 437,154	\$ 360,314	\$ 410,146	\$ 390,662	\$ 409,313	\$ 461,320	\$ 411,714	\$ 449,839	\$ 410,869
Gold Line	\$ 58	84,203	\$ 609,215	\$ 587,313	\$ 518,524	\$ 586,949	\$ 489,634	\$ 593,070	\$ 536,404	\$ 580,341	\$ 600,583	\$ 574,080	\$ 603,761	\$ 586,885
Totals	\$ 2,80	00,863	\$ 2,840,856	\$ 2,848,080	\$ 2,660,038	\$ 3,021,365	\$ 2,643,180	\$ 2,979,794	\$ 2,801,989	\$ 2,933,607	\$ 3,259,046	\$ 2,949,629	\$ 3,085,146	\$ 3,092,125

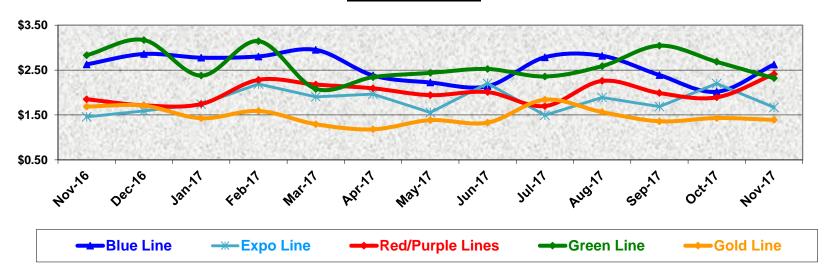
									N	ate	erial Cost	ts										
Blue Line	\$	399,427	\$ 342,695	\$ 306,710	\$ 344,931	<b>\$</b>	411,541	\$	322,424	\$	182,846	\$	328,206	<b>\$</b>	529,007	\$	596,865	\$	397,951	\$	304,627	\$ 376,903
Expo Line	\$	113,229	\$ 233,001	\$ 149,260	\$ 264,561	<b>\$</b>	219,980	<b>\$\$</b>	213,435	\$	167,428	\$	212,682	<b>\$</b>	65,432	<b>\$\$</b>	93,233	<b>\$</b>	94,730	<b>\$</b>	218,980	\$ 61,966
Red/Purple Lines	\$	438,480	\$ 299,157	\$ 363,192	\$ 557,616	<b>\$\$</b>	528,820	\$	521,242	\$	384,776	\$	463,957	<b>\$</b>	321,863	\$	511,576	\$	386,990	\$	325,604	\$ 602,668
Green Line	\$	241,344	\$ 370,755	\$ 182,518	\$ 312,113	\$	63,371	\$	172,269	\$	174,969	\$	199,040	49	140,168	\$	165,820	\$	280,752	\$	229,311	\$ 208,844
Gold Line	\$	247,842	\$ 221,172	\$ 189,520	\$ 265,930	\$	175,047	\$	165,012	\$	197,220	\$	207,555	<b>\$</b>	471,378	\$	336,025	\$	199,318	\$	253,138	\$ 215,172
Totals	\$ '	1,440,322	\$ 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



### Cost Per Mile November 2016-2017

Cost per mile:	Nov-16	Dec-16	Jan-17	Feb-17	Mar-17	Apr-17	May-17	Jun-17	Jul-17	Aug-17	Sep-17	Oct-17	Nov-17	Average
Blue Line	\$2.63	\$2.86	\$2.78	\$2.80	\$2.95	\$2.38	\$2.22	\$2.14	\$2.79	\$2.82	\$2.39	\$2.02	\$2.62	\$2.57
Expo Line	\$1.46	\$1.59	\$1.74	\$2.19	\$1.90	\$1.96	\$1.56	\$2.20	\$1.49	\$1.89	\$1.69	\$2.20	\$1.67	\$1.81
Red/Purple Lines	\$1.85	\$1.71	\$1.74	\$2.28	\$2.18	\$2.09	\$1.94	\$2.01	\$1.70	\$2.26	\$1.99	\$1.89	\$2.41	\$2.00
Green Line	\$2.83	\$3.17	\$2.38	\$3.15	\$2.08	\$2.34	\$2.44	\$2.52	\$2.36	\$2.59	\$3.04	\$2.68	\$2.32	\$2.61
Gold Line	\$1.69	\$1.71	\$1.43	\$1.59	\$1.29	\$1.18	\$1.38	\$1.33	\$1.84	\$1.56	\$1.36	\$1.43	\$1.39	\$1.48

### Cost per Mile





# ATU Absences vs. Overtime November 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	40	-	-	64
CTO-COMPENSATORY TIME OFF	255	207	228	171	92	250	1,203
CUT-EMPLOYEE LEAVES EARLY	4	3	0	1	_	1	9
DSL-DISABILITY LEAVE/LONG	64	80	176	448	-	-	768
EFH-EMG. FLOAT HOL.	24	16	112	16	16	24	208
ETO-EXCUSED TIME OFF	75	74	38	8	9	30	233
FMI-FAM IND INJURY	_	-	37	176	-	-	213
FML-FAMILY CARE LEAVE	426	96	158	164	24	448	1,316
FMS-FAMILY LEAVE SICK	113	48	70	56	-	192	478
HLF-HOLIDAY FLOATING	256	136	400	112	40	248	1,192
HNP-HOLIDAY NOT PAID	16	8	-	32	-	-	56
HOL-HOLIDAY LEGAL	520	120	600	152	56	248	1,696
IS-INVESTIGATIVE SUSPENSION	24	-	-	•	-	-	24
JUR-JURY DUTY	-	24	-	-	-	-	24
LC1-LABOR CODE 233	56	44	130	32	52	201	515
LTI-OCCPIL/LONGTRM INJ LEAVE	352	144	352	192	-	-	1,040
MLN-MILITARY ABSENCE-UNPAID	8	-	64	-	-	-	72
OWP-OFF WITH PERMISSION	-	-	8	12	1	2	23
RTO-REQUESTED TIME OFF-NO PAY	8	80	16	-	8	-	112
SCK-SICK PAY	144	112	277	110	56	104	803
SCW-SICK WITHOUT PAY	118	104	16	346	5	-	590
TAR-TARDY	6	2	4	1	0	0	13
VAC-VACATION	1,281	417	1,456	676	215	756	4,801
VAS-VACATION WHILE SICK	-	-	23	-	-	-	23
*TRAINING	230	35	26	262	-	27	579
Total Absence Hours	3,978	1,757	4,214	3,007	574	2,531	16,061
**ATU Number of Work Force (active)	106	40	108	43	17	60	374
Full Work Force hours/month	18,370	6,932	18,716	7,452	2,946	10,400	64,814
Absence as a % of Work Force	22%	25%	23%	40%	19%	24%	25%

OVERTIME TYPE and HOURS	3941 Blue	3947 Expo	3942 Red	3943 Green	3944 Gold	3948 Monrovia	Total
CTB-COMPENSATORY TIME TO BANK	196	127	136	104	9	157	728
OTP-PREM OVERTIME	4,178	1,898	3,933	2,532	25	965	13,531
TRO OVERTIME	-	3	-	-	-	-	3
WLO-Worked Lunch Overtme	134	153	260	81	24	82	733
Total Overtime Hours	4,508	2,180	4,329	2,717	57	1,204	14,995
Overtime as a % of Work Force	25%	31%	23%	36%	2%	12%	23%

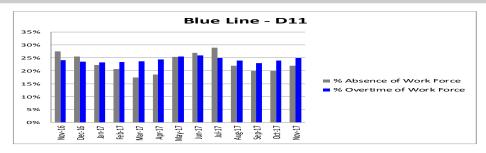
<sup>\*</sup>Training hours captured by Instruction Department are added to Absences Report.

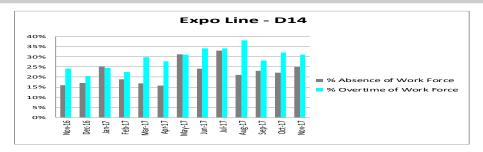
<sup>\*\*</sup>ATU Employee Numbers from ATU Manpower Status Report (last week of the month)

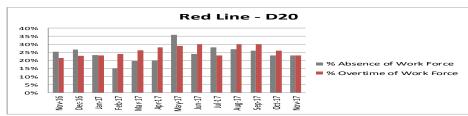


Note: Overtime also covers other required activities, including Training, Component Overhaul, and Special Events.

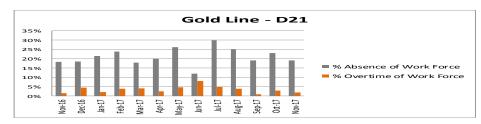
# ATU - %Absence & %Overtime of Work Force November 2016 - 2017

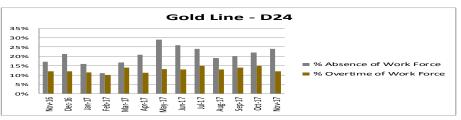












% Abser	nce of Work Force	Nov-16	Dec-16	Jan-17	Feb-17	Mar-17	Apr-17	May-17	Jun-17	Jul-17	Aug-17	Sep-17	Oct-17	Nov-17	13-Month Average
	Blue Line D11	28%	26%	22%	21%	17%	19%	25%	27%	29%	22%	20%	20%	22%	23%
	Expo Line D14	16%	17%	25%	19%	17%	16%	31%	24%	33%	21%	23%	22%	25%	22%
	Red Line D20	25%	27%	23%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

% Overti	ime of Work Force	Nov-16	Dec-16	Jan-17	Feb-17	Mar-17	Apr-17	May-17	Jun-17	Jul-17	Aug-17	Sep-17	Oct-17	Nov-17	13-Month Average
	Blue Line D11	24%	24%	23%	23%	24%	24%	26%	26%	25%	24%	23%	24%	25%	24%
	Expo Line D14	24%	20%	24%	22%	30%	28%	31%	34%	34%	38%	28%	32%	31%	29%
	Red Line D20	21%	23%	23%	24%	26%	28%	29%	30%	23%	30%	30%	26%	23%	26%
	Green Line D22	21%	26%	25%	32%	34%	31%	28%	31%	31%	29%	29%	33%	36%	30%
	Gold Line D21	2%	5%	2%	4%	4%	2%	5%	2%	5%	4%	1%	3%	2%	3%
_	Gold Line D24	12%	12%	11%	10%	14%	11%	13%	13%	15%	13%	14%	15%	12%	13%



# RFS Instruction Department Activities November 2017

### **RFS Training Hours**

	No. Employee	
Team	No. Employees	
RFS Admin	1	
Division 11	7	
Division 14	10	
Division 20	6	
Division 21	-	
Division 22	10	
Division 24	8	
Instruction	1	
MS Apprentice	12	
<b>Grand Total</b>	55	

Vehicle Training	RFS Other	Metro Provided	Total Training Hours
-	-	4	4
230	-	-	230
-	8	27	35
-	-	25.5	25.5
-	-	-	-
240	-	21.5	261.5
-	-	27	27
-	-	4	4
233	-	-	233
703	8	109	820

#### **RFS Instruction Time**



#### **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)

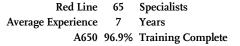
Total Training Hours = Total amount of man-hours spent by RFS in any kind of training



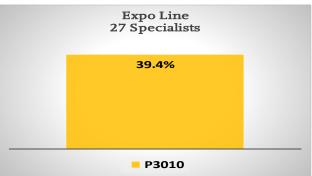
### **Maintenance Specialists Vehicle Training Levels** November 2017





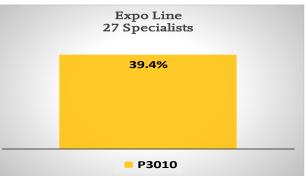


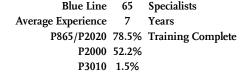


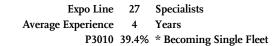


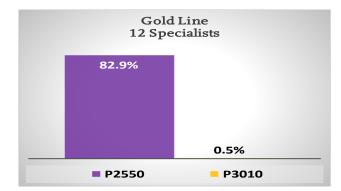


Green Line 31 Specialists











Gold Line 12 Specialists Average Experience 6.1 Years

P2550 82.9% Training Complete P3010 0.5% Training Complete

Gold Line - Monrovia 37 Specialists 4 Years Average Experience P2550 82.4% Training Complete

P3010 30.1%

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

