

# Rail Fleet Services Monthly Report December 2016



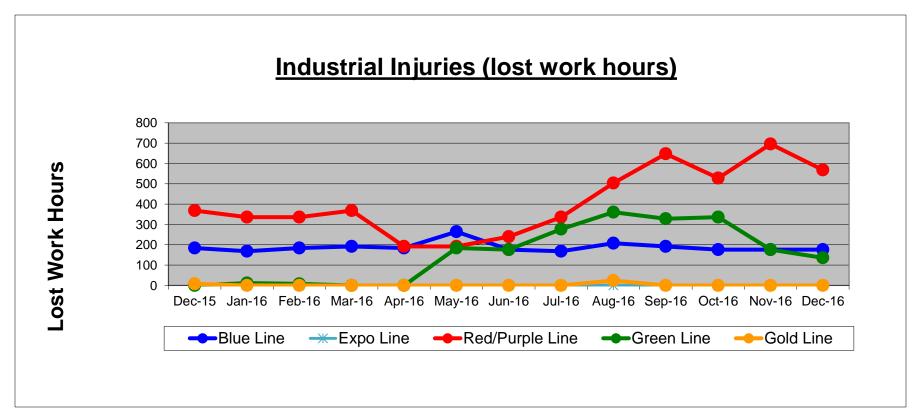
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## Industrial Injuries – Lost Work Hours December 2015-2016

	Dec-15	Jan-16	Feb-16	Mar-16	Apr-16	May-16	Jun-16	Jul-16	Aug-16	Sep-16	Oct-16	Nov-16	Dec-16	13-Month Period
Blue Line	184	168	184	192	184	264	176	168	208	192	176	176	176	2,448
Expo Line	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Red/Purple Line	368	336	336	368	192	192	240	336	504	648 528		696	568	5,312
Green Line	0	12	8	0	0	184	176	277	360	328	336	176	136	1,993
Gold Line	8	0	0	0	0	0	0	0	24	0	0	0	0	32
Totals	560	516	528	560	376	640	592	781	1,096	1,168	1,040	1,048	880	9,785





## Rail Vehicle Accidents & Major Incidents December 2015-2016

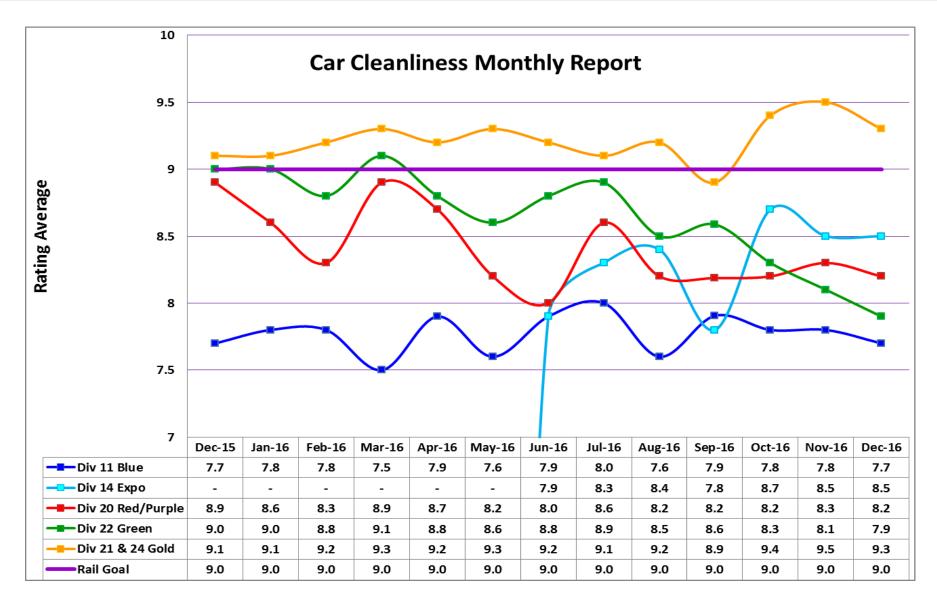
Repair Costs	Dec-15	Jan-16	Feb-16	Mar-16	Apr-16	May-16	Jun-16	Jul-16	Aug-16	Sep-16	Oct-16	Nov-16	Dec-16	13-Month Period
Blue Line	\$17,160	\$4,570	\$7,379	\$2,037	\$1,232	\$513	\$0	\$0	\$3,211	\$665	\$28,089	\$0	\$2,352	\$67,208
Expo Line	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$576	\$0	\$12,921	\$9,468	\$0	\$381	\$23,346
Red/Purple Line	\$0	\$0	\$0	\$0	\$1,284	\$0	\$1,932	\$840	\$552	\$0	\$0	\$0	\$0	\$4,608
Green Line	\$23	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$51,535	\$0	\$0	\$0	\$0	\$51,558
Gold Line	\$1,547	\$0	\$53	\$1,487	\$4,646	\$0	\$19,451	\$564	\$0	\$0	\$5,694	\$0	\$0	\$33,442
Totals	\$18,730	\$4,570	\$7,432	\$3,524	\$7,162	\$513	\$21,383	\$1,980	\$55,298	\$13,586	\$43,251	\$0	\$2,733	\$180,162

		Rail V	ehicle Accident Costs - December 2016				
Date	Incident #	Problem Code	Incident Description	Repa	ir Cost		
Metro Blu	e Line						
12/1/16	2807038	10-73	A 10-73 was reported at Transit Mall, Track 2, SB.	\$	494		
12/2/16	/19/16 2814327 10-73 A 10-73 was reported (Pedestrian on Bike) at Nadeu Crossing, Track 2, SB. \$						
12/19/16	2814327	10-73	A 10-73 was reported (Pedestrian on Bike) at Nadeu Crossing, Track 2, SB.	\$	513		
12/29/16	2817538	10-72	A 10-72 was reported at Alondra Grade Crossing, Track 2, SB.	\$	876		
			Metro Blue Line Total	\$	2,352		
Metro Exp	oo Line						
12/21/16	2815126	10-73	A 10-73 was reported at Flower & 23rd St., Track 4, SB.	\$	381		
			Metro Expo Line Total	\$	381		
			Grand Total	\$	2,733		
10	<b>)-71</b> = Train vs	. Object/ <b>10-72</b> = Train vs.	Pedestrian/ 10-73 = Train vs. Vehicle/ 10-74 = Train vs. MTA Vehicle/ 10-75 = Derailn	nent			

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 2015-2016

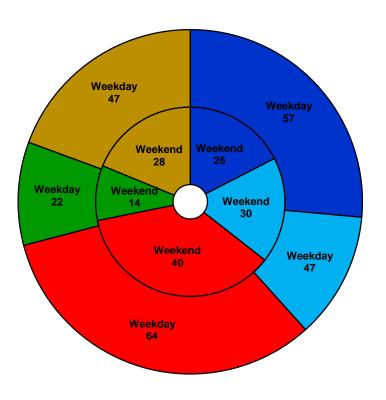




# Service Delivery December 2016

#### **December 2016 - Service Delivery**

Blue Line Fleet	Size: 65	Average	
Pull Out	Vehicles Required	<u>Average</u> Available	% Up (Down)
Weekday:	57	58	102%
Weekend:	26	45	173%
Weekend.	20	43	17370
Monthly Mileage:	388,754		
<b>Expo Line Fleet</b>	Size: 63	_	
Pull Out	Vehicles Required	<u>Average</u> Available	% Up (Down)
Weekday:	<u>verlicies Required</u> 47	48	700 (D0WII)
Weekend:	30	46 41	102%
vveekend.	30	41	137%
Monthly Mileage:	364,647		
Red/Purple Line	Fleet Size: 104	Average	
Pull Out	Vehicles Required	Available	% Up (Down)
Weekday:	64	80	125%
Weekend:	40	68	170%
Weekena.	40	00	17070
Monthly Mileage:	605,740		
Green Line Flee	t Size: 29		
Did Out	Vahialaa Daguinad	<u>Average</u> Available	0/ I la (Davis)
Pull Out	Vehicles Required		% Up (Down)
Weekday:	22	22	100%
Weekend:	14	17	121%
Monthly Mileage:	235,905		
Gold Line Fleet	Size: 62		
		<u>Average</u>	
Pull Out	Vehicles Required	<u>Available</u>	<u>% Up (Down)</u>
Weekday (Div 21):	10	10	100%
Weekday (Div 24):	37	40	108%
Weekend (Div 24):	28	40	143%
*Monthly Mileage:	486,164		
* Gold Line monthly n	nileage includes Divisio	on 21 and 24.	
	_		

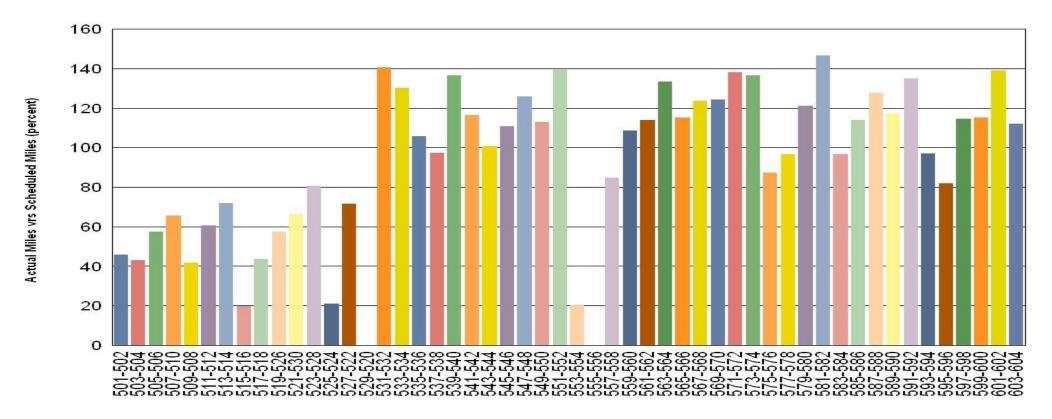


■Blue Line	■Expo Line	■Red/Purple Line
■Green Line	■Gold Line	



### Vehicle Utilization December 2016

#### Metro Red/Purple Line (104 Cars)



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

The following cars were out of service due to:

Car # 515-516 - CB1 Trip - Propulsion Fault

Car # 525-524 - AC Blower Motor Prototype Installation

Car # 529-520 - Waiting for DC Traction Motors

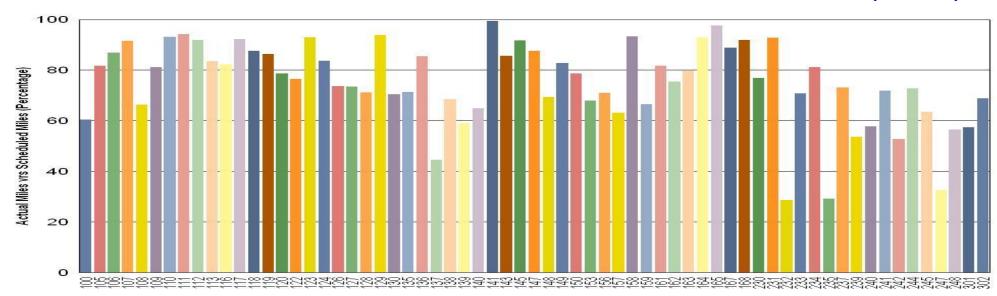
Car # 553-554 - Propulsion Fault

Car # 555-556 - Campaign Floor Replacement



### Vehicle Utilization December 2016

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



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

Car # 232 – Air Hose Campaign / PM Inspection

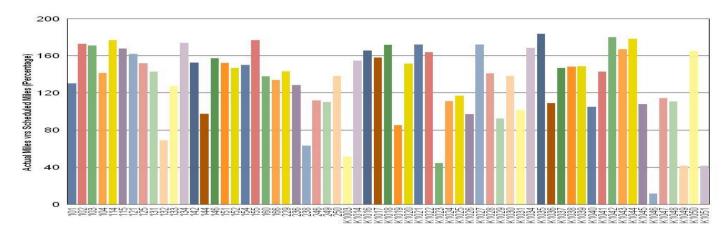
Car # 235 – Exterior Paint/Body Campaign

Car # 247 - Information not available

**Metro Expo Line (63 Cars)** 

**Expo Line:** The following car was out of service due to:

Car # K1046 - New Accepted 12/21/2016





### Vehicle Utilization December 2016

#### **Metro Green Line (29 Cars)**

#### **Green Line:**

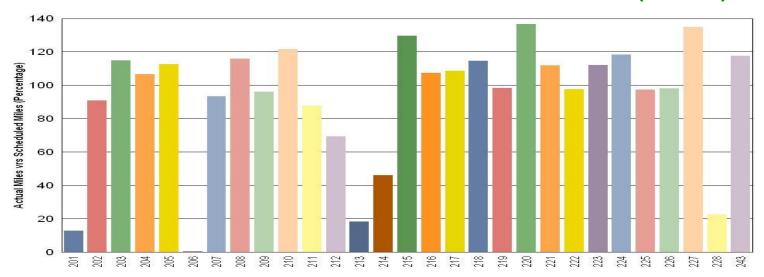
The following cars were out of service due to:

Car # 201 – External Paint Body

Car # 206 – Engineering Hold (EMI)

Car # 213 - Propulsion Faults

Car # 228 - Propulsion Faults



#### **Metro Gold Line (62 Cars)**

#### **Gold Line:**

#### The following cars were out of service due to:

Car # 711 - Water in connector causing Door Loop fault

Car # 722 - Burnt HVAC connector

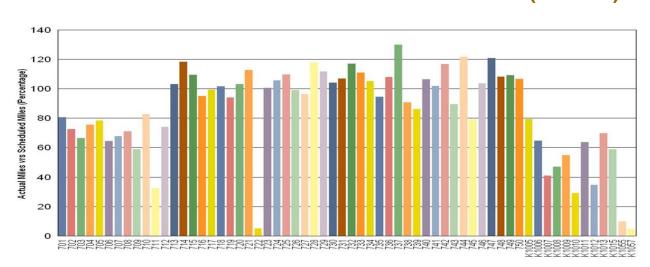
Car # K1010 – Warranty repair (Propulsion fault)

Car # K1012 – Warranty repair (Prop fault & Coupler

Electrical head no extending)

Car # K1055 – New Accepted at the end of December

Car # K1057 - New Accepted at the end of December

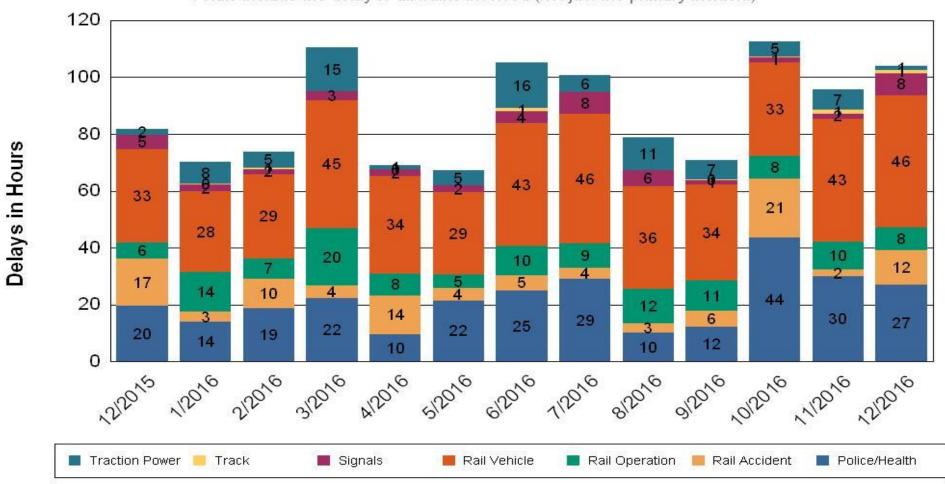




### All Train Delays (Hours) December 2015-2016

### **All Train Delays**

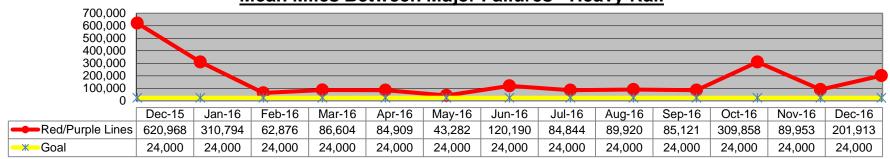
Totals Include the delay to all trains involved (not just the primary incident)



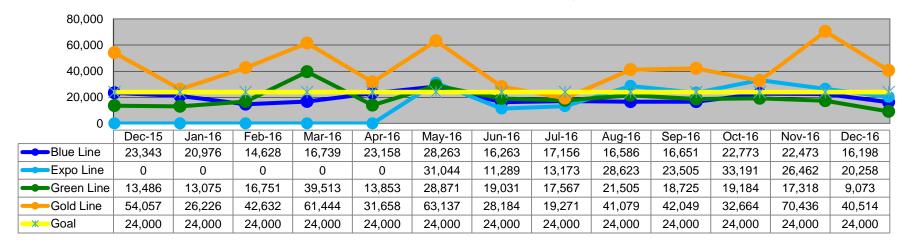


### Mean Miles Between Major Failures (MMBF) December 2015-2016

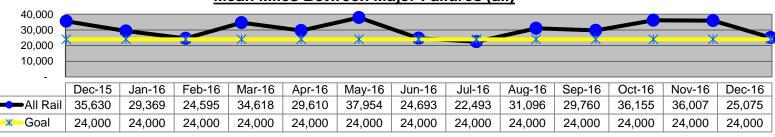




#### Mean Miles Between Major Failures - Light Rail



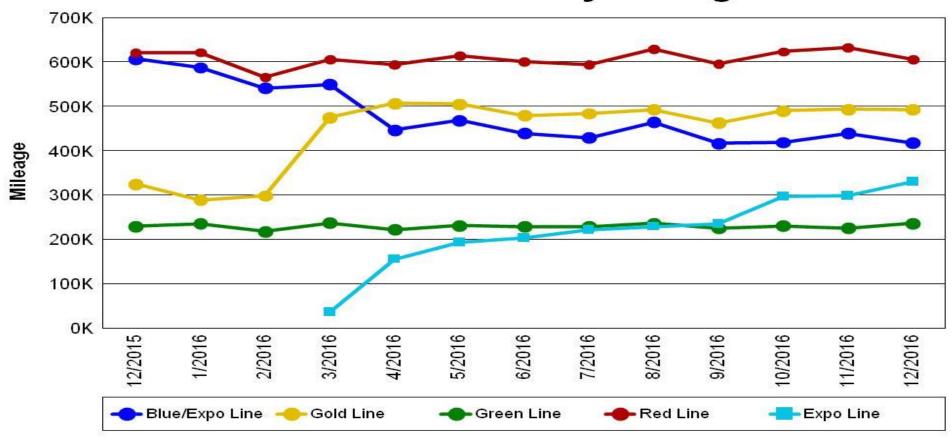
#### Mean Miles Between Major Failures (all)





### Mileage Between Data Range (by month) December 2015-2016

### Rail Division Monthly Mileage



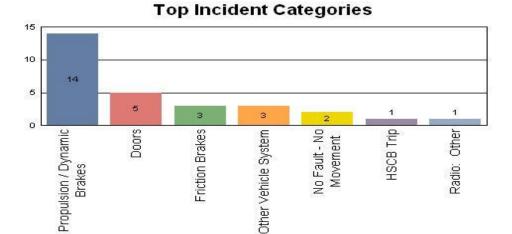
#### Notes:

- ❖ 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.

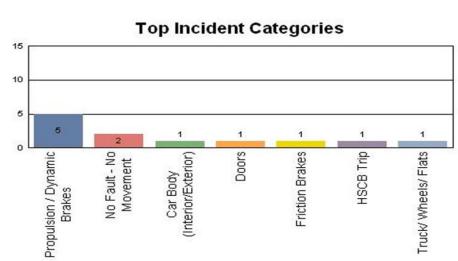


### Top Incident Categories December 2016

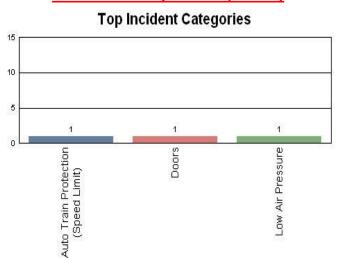




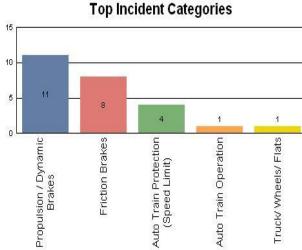
#### **Metro Expo Line (Div 14)**



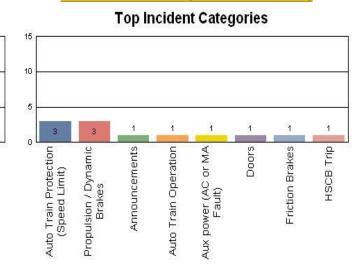
**Metro Red/Purple Line (Div 20)** 



#### Metro Green Line (Div 22)



#### Metro Gold Line (Div 21 & Div 24)

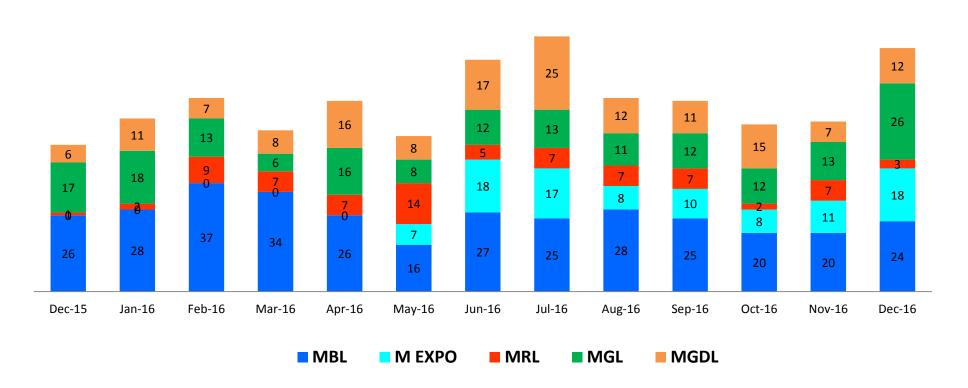




**Major Incident**: When a train does not complete its scheduled run or is more than 5 minutes late of its scheduled arrival time.

# Major Incidents **December 2015-2016**

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



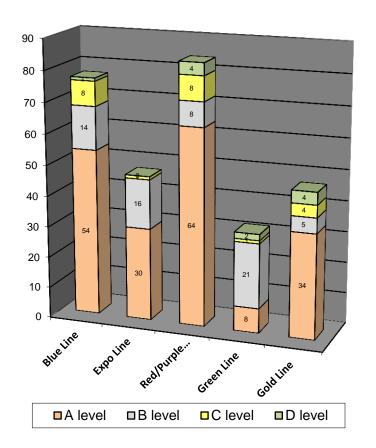


# Preventive Maintenance Compliance December 2015-2016

PM Compliance	Dec-15	Jan-16	Feb-16	Mar-16	Apr-16	May-16	Jun-16	Jul-16	Aug-16	Sep-16	Oct-16	Nov-16	Dec-16
Blue Line	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
Expo Line	0%	0%	0%	0%	0%	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	97%	97%	100%	100%	100%	93%	100%	100%	100%	97%	100%	100%	100%
Gold Line	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%

Number of Preventive Maintenance Inspections - December 2016														
Line	A level	B level	C level	D level	Totals									
Blue Line	54	14	8	1	77									
Expo Line	30	16	1	0	47									
Red/Purple Lines	64	8	8	4	84									
Green Line	8	21	1	2	32									
Gold Line	34	5	4	4	47									
Totals:	190	64	22	11	287									

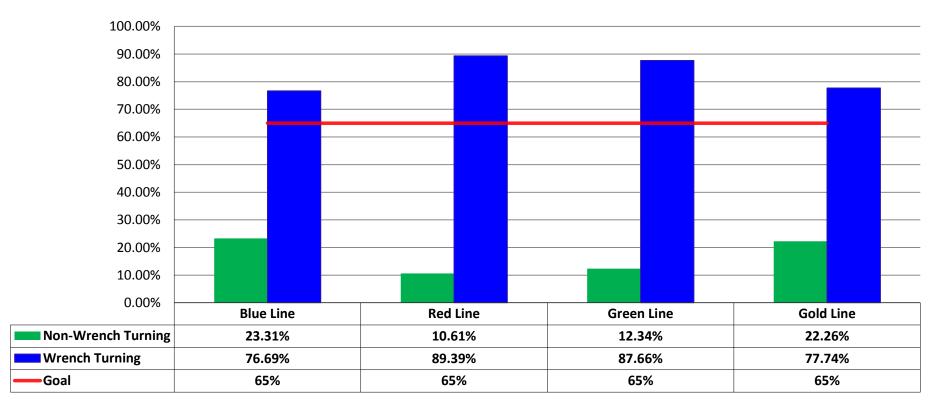
Explanation of PM	Inspection levels		Mile	S	
Line	Туре	A level	B level	C level	D level
Blue/Expo Lines	P865/P2020	5,000	15,000	30,000	60,000
Blue/Expo Lines	P2000	7,500	22,500	45,000	90,000
Red/Purple Lines	A650	7,500	22,500	45,000	90,000
Green Line	P2000	7,500	22,500	45,000	90,000
Gold Line	P2550	10,000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





# RFS Leader Wrench Turning December 2016

RFS - Leader Wrench Turning
December 2016

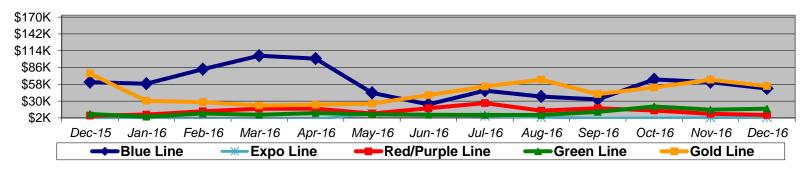


Notes: Labor hours contributed by Maint Specialist Leader, Rail Body/Paint Repair Leader, and Maint Specialist Temporary Leader



## Vandalism & Graffiti Report December 2015-2016

	Graffiti Costs														
	Dec-15	Jan-16	Feb-16	Mar-16	Apr-16	May-16	Jun-16	Jul-16	Aug-16	Sep-16	Sep-16         Oct-16         Nov-16         Dec-16         P           \$33K         \$66K         \$62K         \$51K         \$           \$2K         \$2K         \$3K         \$	13-Month Period			
Blue Line	\$62K	\$59K	\$83K	\$106K	\$101K	\$44K	\$24K	\$48K	\$38K	\$33K	\$66K	\$62K	\$51K	\$776K	
Expo Line	\$K	\$K	\$K	\$K	\$K	\$9K	\$8K	\$5K	\$3K	\$2K	\$2K	\$2K	\$3K	\$34K	
Red/Purple Line	\$6K	\$7K	\$13K	\$17K	\$17K	\$9K	\$18K	\$27K	\$14K	\$18K	\$14K	\$9K	\$7K	\$178K	
Green Line	\$9K	\$4K	\$9K	\$7K	\$10K	\$8K	\$7K	\$7K	\$7K	\$12K	\$21K	\$16K	\$17K	\$135K	
Gold Line	\$76K	\$30K	\$28K	\$23K	\$24K	\$26K	\$40K	\$54K	\$66K	\$42K	\$53K	\$66K	\$55K	\$583K	
Totals:	\$152K	\$101K	\$134K	\$153K	\$153K	\$96K	\$98K	\$141K	\$128K	\$106K	\$157K	\$154K	\$133K	\$1,706K	



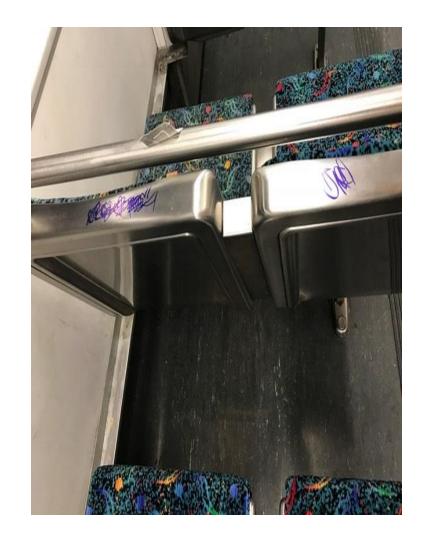
December 2016 Vandalism & Graffiti - All Rail													
	Qty		Labor	Ma	aterials		Totals						
Windows Replaced	141	\$	17,823	\$	38,781	\$	56,604						
Vandal Shields Replaced	560	\$	16,927	\$	8,281	\$	25,208						
Seats Cleaned	181	\$	933	\$	40	\$	973						
Seats Inserts Replaced	122	\$	4,133	\$	3,731	\$	7,864						
Graffiti Removal - Other	1,270	\$	26,746	\$	6,396	\$	33,142						
Repainting Panels	211	\$	6,833	\$	2,765	\$	9,598						
Totals	2,485	\$	73,395	\$	59,994	\$	133,389						



# Vandalism & Graffiti Pictures December 2016

### **Blue Line**

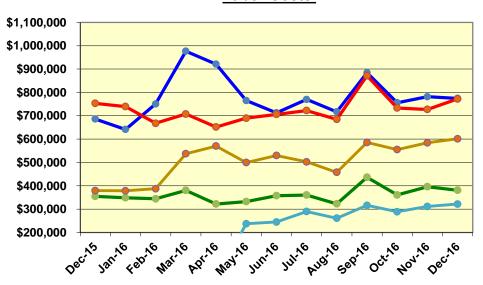




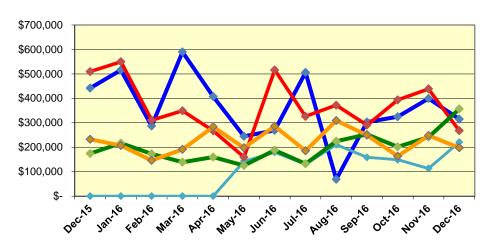


# Labor and Material Costs December 2015-2016

#### **Labor Costs**



#### **Material Costs**



	Dec-15	Jan-16	Feb-16	Mar-16	Apr-16	May-16		Jun-16	Jul-16	Aug-16	Sep-16	Oct-16	Nov-16	Dec-16
							Lal	oor Costs						
Blue Line	\$ 686,227	\$ 641,613	\$ 750,961	\$ 976,568	\$ 920,945	\$ 765,108	\$	712,774	\$ 770,143	\$ 716,923	\$ 884,555	\$ 755,958	\$ 781,662	\$ 774,386
Expo Line	\$ -	\$ -	\$	\$	\$	\$ 237,630	\$	245,339	\$ 290,199	\$ 261,217	\$ 316,395	\$ 289,213	\$ 311,627	\$ 322,070
Red/Purple Lines	\$ 753,216	\$ 739,336	\$ 667,772	\$ 707,560	\$ 651,771	\$ 689,764	\$	705,772	\$ 722,363	\$ 684,555	\$ 871,431	\$ 733,202	\$ 727,093	\$ 772,214
Green Line	\$ 355,057	\$ 349,152	\$ 344,701	\$ 380,356	\$ 322,108	\$ 332,662	\$	357,807	\$ 360,682	\$ 323,087	\$ 436,825	\$ 360,963	\$ 396,278	\$ 381,067
Gold Line	\$ 379,336	\$ 378,751	\$ 387,820	\$ 537,337	\$ 570,186	\$ 499,874	\$	529,761	\$ 502,967	\$ 458,067	\$ 585,582	\$ 555,213	\$ 584,203	\$ 601,359
Totals	\$ 2,173,836	\$ 2,108,852	\$ 2,151,255	\$ 2,601,822	\$ 2,465,011	\$ 2,525,038	\$	2,551,454	\$ 2,646,353	\$ 2,443,849	\$ 3,094,789	\$ 2,694,548	\$ 2,800,863	\$ 2,851,095

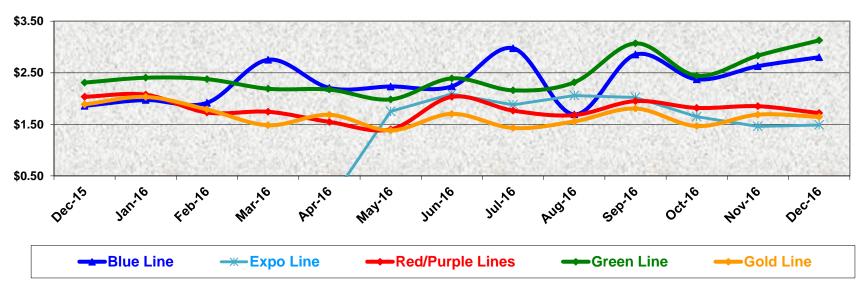
	Material Costs																		
Blue Line	\$ 441,523	\$	515,933	\$	286,531	\$	589,879	\$	407,085	\$	245,001	\$ 268,750	\$	505,721	\$ 68,670	\$ 303,202	\$ 324,999	\$ 399,427	\$ 314,545
Expo Line	\$ -	\$	-	\$		\$		\$	-	\$	142,495	\$ 179,099	\$	130,419	\$ 210,312	\$ 158,666	\$ 148,670	\$ 113,229	\$ 220,296
Red/Purple Lines	\$ 509,448	\$	549,576	\$	310,489	\$	349,093	\$	267,284	\$	159,258	\$ 515,978	\$	326,251	\$ 371,920	\$ 290,597	\$ 393,507	\$ 438,480	\$ 267,857
Green Line	\$ 174,269	\$	216,535	\$	172,625	\$	138,673	\$	159,615	\$	125,334	\$ 188,111	\$	132,247	\$ 224,414	\$ 252,988	\$ 201,438	\$ 241,344	\$ 357,020
Gold Line	\$ 232,338	\$	206,856	\$	145,891	\$	191,351	\$	283,211	\$	197,620	\$ 285,877	<b>\$</b> \$	185,153	\$ 308,906	\$ 249,398	\$ 162,899	\$ 247,842	\$ 197,817
Totals	\$ 1,357,578	\$	1,488,899	\$	915,536	\$	1,268,996	\$	1,117,195	\$	869,708	\$ 1,437,815	\$	1,279,791	\$ 1,184,222	\$ 1,254,851	\$ 1,231,513	\$ 1,440,322	\$ 1,357,534



# Cost Per Mile December 2015-2016

Cost per mile:	Dec-15	Jan-16	Feb-16	Mar-16	Apr-16	May-16	Jun-16	Jul-16	Aug-16	Sep-16	Oct-16	Nov-16	Dec-16	Average
Blue Line	\$1.86	\$1.97	\$1.92	\$2.75	\$2.21	\$2.23	\$2.24	\$2.97	\$1.69	\$2.85	\$2.37	\$2.63	\$2.80	\$2.35
Expo Line	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$1.75	\$2.09	\$1.88	\$2.06	\$2.02	\$1.65	\$1.46	\$1.49	\$1.80
Red/Purple Lines	\$2.03	\$2.07	\$1.73	\$1.74	\$1.55	\$1.40	\$2.03	\$1.77	\$1.68	\$1.95	\$1.82	\$1.85	\$1.72	\$1.80
Green Line	\$2.31	\$2.40	\$2.38	\$2.19	\$2.17	\$1.98	\$2.39	\$2.16	\$2.31	\$3.07	\$2.44	\$2.83	\$3.13	\$2.44
Gold Line	<b>\$1.89</b>	\$2.03	\$1.79	\$1.48	\$1.68	\$1.38	\$1.70	\$1.43	\$1.56	\$1.81	\$1.47	\$1.69	\$1.64	\$1.66

### Cost per Mile





## ATU Absences vs. Overtime December 2016

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	48	_	_	24	_	_	72
CTO-COMPENSATORY TIME OFF	254	369	341	92	_	192	1,247
CUT-EMPLOYEE LEAVES EARLY	_	2	-	_	1	1	3
DSL-DISABILITY LEAVE/LONG	820	_	176	8	_	-	1,004
EFH-EMG. FLOAT HOL.	_	24	56	32	8	48	168
ETO-EXCUSED TIME OFF	77	71	48	11	2	26	235
FMI-FAM IND INJURY	112	-	320	144	176	-	752
FML-FAMILY CARE LEAVE	384	40	48	256	9	112	849
FMS-FAMILY LEAVE SICK	77	-	-	28	9	32	146
HLF-HOLIDAY FLOATING	296	128	288	144	40	351	1,247
HNP-HOLIDAY NOT PAID	-	8	-	8	-	-	16
HOL-HOLIDAY LEGAL	504	168	544	112	48	280	1,656
II-INDUSTRIAL INJURY	-	-	-	136	-	-	136
LC1-LABOR CODE 233	99	116	169	62	24	136	606
LTI-OCCPIL/LONGTRM INJ LEAVE	176	-	568	-	-	-	744
OWP-OFF WITH PERMISSION	-	-	3	-	-	-	3
RTO-REQUESTED TIME OFF-NO PAY	-	8	-	8	-	-	16
SCK-SICK PAY	296	16	234	125	96	352	1,119
SCW-SICK WITHOUT PAY	168	8	80	64	-	8	328
TAR-TARDY	2	0	1	1	0	1	6
VAC-VACATION	1,345	280	1,839	944	132	698	5,238
VAS-VACATION WHILE SICK	-	-	19	-	-	-	19
*TRAINING	144	400	-	-	80	16	640
Total Absence Hours	4,800	1,637	4,734	2,208	625	2,253	16,257
**ATU Number of Work Force (active)	105	42	102	43	17	61	370
Full Work Force hours/month	18,197	7,279	17,677	7,452	2,946	10,573	64,121
Absence as a % of Work Force	26%	22%	27%	30%	21%	21%	25%

OVERTIME TYPE and HOURS	3941 Blue	3947 Expo	3942 Red	3943 Green	3944 Gold	3948 Monrovia	Total
CTB-COMPENSATORY TIME TO BANK	220	67	106	36	32	96	557
OTP-PREM OVERTIME	3,921	1,254	3,726	1,811	80	1,080	11,872
WLO-Worked Lunch Overtme	150	166	219	85	24	83	726
<b>Total Overtime Hours</b>	4,291	1,486	4,052	1,932	135	1,259	13,155
Overtime as a % of Work Force	24%	20%	23%	26%	5%	12%	21%

<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.

# RFS Instruction Department Activities December 2016

Student

#### LRV Training classes completed during the month of December 2016

#### **Core Training Completed**

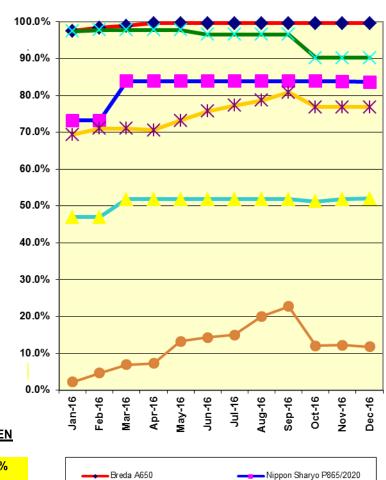
Description	Course Hours	Count	Training Hours	
Blue Line Training - (P865/2020 & P2000 LRVs): RFS KINKISHARYO INTRO & MAINLINE RESPONSE	16	9	144	
	Total Blue Line Tr	aining (Hours):	144	
Light Rail Training [In Monrovia (P2550 LRVs) JAC]: RFS 2015-FRHT-BRANDT HIGH-RAIL TRUCK	8	2	16	
	Total Light Rail Tr	aining (Hours):	16	
Expo Line Training - (P865/2020, P2000, & P3010 LRVs): RFS 2-WEEK RAIL INTRODUCTION	80	5	400 400	
Gold Line Training (P2550 LRVs): RFS 2-WEEK RAIL INTRODUCTION	Total Expo Line Tr 80 Total Gold Line Tr	1	80	
Green Line Training (P2000 LRVs):  No vehicle training ths month	Total Green Line Tr		0	
Total RFS Instruction for the mo	onth of December 20	016 (Hours):	<u>640</u>	
Core Vehicle Training Complete	ed: BLUE	<u>EXPO</u>	GOLD	GREEN
Percentage of core vehicle training comple Siemens P2000 training comple KinkiSharyo P3010 training comple	ete: 52.0%	<b>21.3%</b> 39.8% 15.5%	<b>76.9%</b> N/A 23.9%	<b>90.2%</b> N/A N/A

15.2

3.3

7.1

10.3





**Average Specialist Rail Experience Level in Years:** 

Siemens GE/ATP P2000

AnsaldoBreda P2550

Siemens Base P2000

KinkiSharyo P3010

# RFS Instruction Department Activities December 2016

#### HRV & Other Training classes completed during the month of December 2016

<u>Description</u>	Course Hours	Student Count	<b>Training Hours</b>	
Red Line Training - Breda A650 HRV: NO VEHICLE TRAINING THIS MONTH	0	0	0	
Total Red Line Training Hours			0	
Other Instruction Activities	<u>Curriculum</u>	Administrative	Technical Support	Total
A650 Curriculum, Administrative, and Technical Support	40	16	64	120
P865/P2020 Curriculum, Administrative, and Technical Support	16	8	16	40
P2000 Curriculum, Administrative, and Technical Support	32	8	24	64
P2550 Curriculum, Administrative, and Technical Support	80	16	40	136
P3010 Curriculum, Administrative, and Technical Support	240	24	0	264
Time Off (HOL, TOV, & SCK)				232
Total Other Instruction Activities				856

Core Vehicle Training Completed:	<u>RED</u>	JAC Core	<u>JAC</u>
Percentage of Core Vehicle Training Complete:	99.6%	(P2000)	30.3%
		(P2550)	22.6%
Average Specialist Rail Experience Level in Years:	12.9		0.4

