

Quarterly Service Performance Review First Quarter, FY 2017 July - September, 2016

Engineering & Operations Committee November 17, 2016

		SUMMARY CH	IART 1st QUA	RTE	R FY 2017					
PERFORMANCE INDICATORS	CU	CURRENT QUARTER PRIOR QTR ACTUALS			Т	YEAR TO DATE				
					LAST	THIS QTR				
	ACTUAL	STANDARD	STATUS		QUARTER	LAST YEAR	ACT	ΓUAL	STANDARD	STATUS
Average Ridership - Weekday	432,002	447,264	NOT MET		434,495	434,003	4	132,002	447,264	NOT MET
Customers on Time										
Peak	90.00%	95.00%	NOT MET		91.20%	90.35%		90.00%	95.00%	NOT MET
Daily	91.97%	95.00%	NOT MET		92.74%	91.78%		91.97%	95.00%	NOT MET
Trains on Time										
Peak	85.84%	N/A	N/A		88.29%	87.34%		85.84%	N/A	N/A
Daily	88.24%		NOT MET		89.43%			88.24%		NOT MET
Peak Period Transbay Car Throughput										
AM Peak	98.71%	97.50%	MET		98.42%	96.19%		98.71%	97.50%	MET
PM Peak	99.72%	97.50%	MET		99.39%			99.72%		MET
Car Availability at 4 AM (0400)	596		MET		577	582	· ·	596		MET
Mean Time Between Service Delays	5,179				5,148			5,179		MET
Elevators in Service	3,179	4,000			5,140	7,551		5,175	4,000	
Station	98.50%	98.00%	MET		98.63%	98.83%		98.50%	98.00%	MET
Garage	97.60%	98.00%	NOT MET		96.00%			96.30 % 97.60%		NOT MET
Escalators in Service	37.00%	30.00 /0	NOT WILT		30.00 /0	30.37 /6		J1.JU/0	30.00 /0	.101 WIL1
Street	91.40%	95.00%	NOT MET		87.37%	94.57%		91.40%	95.00%	NOT MET
Platform	96.67%	96.00%	MET		95.87%			96.67%		MET
Automatic Fare Collection	90.07 /6	90.00 /6	IVICI		93.67 /6	93.70 /6		30.07 /0	30.00 /0	WIE!
Gates	99.12%	99.00%	MET		99.43%	99.13%		99.12%	99.00%	MET
Vendors		95.00% 95.00%	MET							MET
	95.92%				96.02%		,	95.92%		
Wayside Train Control System	1.08				1.11			1.08		NOT MET
Computer Control System	0.029				0.013			0.029		MET
Traction Power	0.12				0.19			0.12		MET
Track	0.88				0.03			0.88		NOT MET
Transportation	0.43				0.70			0.43		MET
Environment Outside Stations	2.71	2.80			2.73			2.71		NOT MET
Environment Inside Stations	2.66				2.68			2.66		NOT MET
Station Vandalism	2.97	3.19			2.99			2.97		NOT MET
Station Services	2.92				2.94			2.92		NOT MET
Train P.A. Announcements	3.09		NOT MET		3.09			3.09		NOT MET
Train Exterior Appearance	2.86				2.85			2.86		NOT MET
Train Interior Appearance	2.95				2.94			2.95		NOT MET
Train Temperature	3.10	3.12	NOT MET		3.09	3.12		3.10	3.12	NOT MET
Customer Complaints										
Complaints per 100,000 Passenger Trips	7.41	5.07	NOT MET		6.30	5.77		7.41	5.07	NOT MET
Safety										
Station Incidents/Million Patrons	2.05	5.50	MET		3.85	4.70		2.05	5.50	MET
Vehicle Incidents/Million Patrons	0.59				0.56			0.59		MET
Lost Time Injuries/Illnesses/Per OSHA	8.48		NOT MET		9.58	9.17		8.48		NOT MET
OSHA-Recordable Injuries/Illnesses/Per OSHA	12.72	13.30	MET		12.04	10.68		12.72	13.30	MET
Unscheduled Door Openings/Million Car Miles	0.000				0.050			0.000	0.300	MET
Rule Violations Summary/Million Car Miles	0.330	0.500	MET		0.110	0.170		0.330	0.500	MET
Police				1 1]	
BART Police Presence	2.28	2.50	NOT MET		2.30	2.38		2.28	2.50	NOT MET
Quality of Life per million riders	29.08		N/A		40.67	62.17		29.08		N/A
Crimes Against Persons per million riders	2.18		NOT MET		2.28	1.35		2.18		NOT MET
Auto Theft and Burglaries per 1,000 parking spaces	5.72				5.93			5.72		MET
Police Response Time per Emergency Incident (Minutes)	6.43				5.95			6.43	5.00	NOT MET
Bike Thefts (Quarterly Total and YTD Quarterly Average)	163				159			163		NOT MET
								1.00		

LEGEND:

Goal met

Goal not met but within 5%

Goal not met by more than 5%

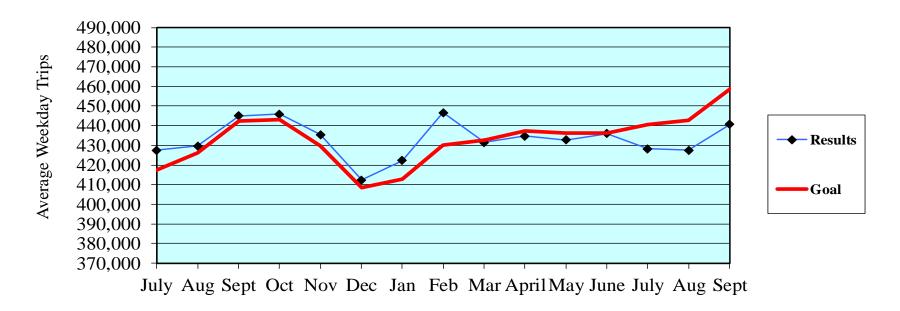


FY17 First Quarter Overview...

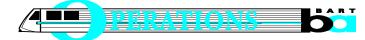
- ✓ Six years of ridership growth came to an end, revenue loss requires expenditure reductions.
- ✓ Weekday ridership down slightly (-0.5%), weekends down more significantly (-4.3% and -6.2%).
- ✓ On-time performance down roughly 1%.
- ✓ Reliability: Car Computer Control System, Traction Power, Transportation met; Train Control and Track not met.
- ✓ Availability: Gates, Vendors, Station Elevators, Platform Escalators and Cars met; Street Escalators and Parking Garage Elevators not met.
- ✓ Passenger Environment: four Station indicators worse and goal not met; four Train indicators improved but goal not met.
- ✓ Customer complaints up.



Customer Ridership

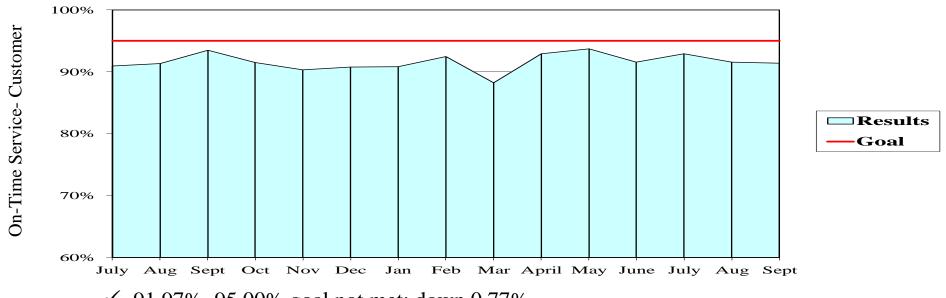


- ✓ Total ridership decreased by 1.3% compared to same quarter last year
- ✓ Average weekday ridership (432,002) down 0.5% from same quarter last year
- ✓ Core weekday ridership down by 0.4% from same quarter last year
- ✓ SFO Extension weekday ridership down by 1.3% from same quarter last year
- ✓ Saturday and Sunday down by 4.3% and 6.2%, respectively, over same quarter last year
- ✓ Overall, ridership 6% below budget





SERVICE: How are we doing? On-Time Service - Customer

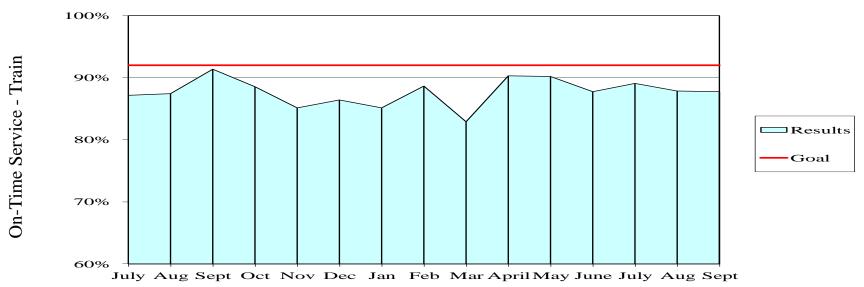


✓ 91.97%, 95.00% goal not met; down 0.77%

	Date	Time	Destination	Location	Cause		
1	12-Aug-16	0416	N-B/S-B	B.Park I-Lock	Ground Wire Touching 3rd-Rail Causing Sparks/Smoke) (MUX Equipment Impaired/Fuses Kept Blowing Every Time They Were Replaced) (Service Truncated)	EQUIP	497
2	19-Sep-16	0538	Northbound	Balboa Park	MUX (Shorted Circuit) (False Occupancy)(0538-1853) Required) (Manual Operation Required) (Multiple Cranks in Place/Renewal Project/Ref.: 0405)	EQUIP	86
3	26-Aug-16	0722	N-B/S-B	Fruitvale	PG&E Power Outage (480 VAC)(0722-1316) (MUX Equipment Impaired/Loss of Speed Codes & Routing) (Congestion in the Oakland Wye/Also Ref.: 0513)	PG&E	72
4	26-Aug-16	0513	Southbound	E.C.D. Norte	MUX (Flashing) (Multiple False Occupancies)(0614-2311) (Manual Operation Required) (Lightning Arrester/Shorting Condition)	EQUIP	62
5	23-Aug-16	1628	S-B/N-B	K & A Lines	PG&E Power (Loss of 3rd-Rail Power)(1628-1903) (MUX Equipment Impaired/Speed Restriction Required)	PG&E	53
6	23-Aug-16	1332	N-B/S-B	W. Oakland	BPD Hold (Vandalism Suspect)(1332-1506) (Patrons Striking Car & Station Windows With Golf Club) (Two Trains Ran Through)	PEOPLE	52



On-Time Service - Train



✓ 88.24%, 92% goal not met; down 1.19%

Late trains by category:	4880	Total Late	Trains	
1. Misc.(other)(patron loading, passenger transfer,				
congestion, multi-cause delay, person on trackway,				
weather)	1,299	late trains	26.6%	
2. Police	776	late trains	15.9%	
3. Train Control	602	late trains	12.3%	
4. Wayside Maintenance Work	418	late trains	8.6%	
5. Revenue Vehicle	394	late trains	8.1%	
6. Vandalism	226	late trains	4.6%	
7. Sick Passenger	224	late trains	4.6%	
8. Operations	201	late trains	4.1%	

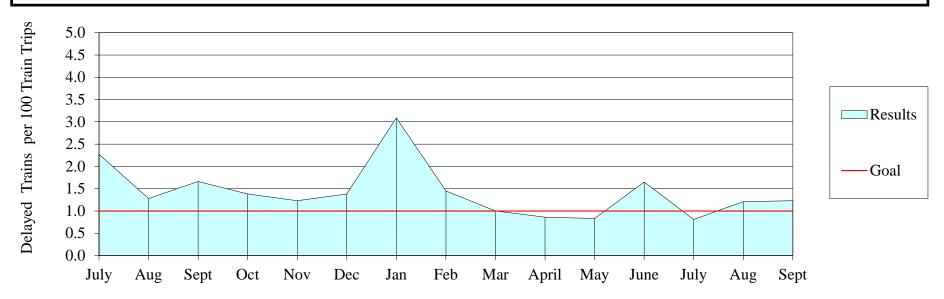
✓ 51.7% of all late trains attributable to non-BART equipment/personnel causes





Wayside Train Control System

Includes False Occupancy & Routing, Delays Per 100 Train Runs

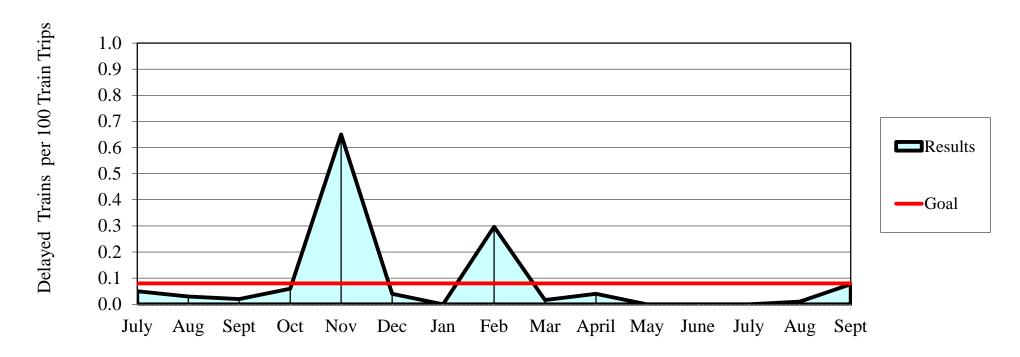


- ✓ Goal not met Actual 1.08/ Goal 1.00
 - Improvement Over Same Quarter Last Year (1.68): <u>0.60</u>
 - Improvement Over Last Quarter (1.11): <u>0.03</u>
 - Two Major Delay Events:
 - ➤ August 26 at 0513 Hours, 62 Trains Delayed R50 A Mux flashing false occupancies from shorted arrestor; no access to aerial until Blanket.
 - ➤ September 19, 0538 Hours, 86 Trains Delayed M80 D Mux flashing false occupancies from debris in Mux box; no access to aerial until Blanket.
- ✓ Continuing progress in challenging/critical area



Computer Control System

Includes ICS computer & SORS, Delays per 100 train runs

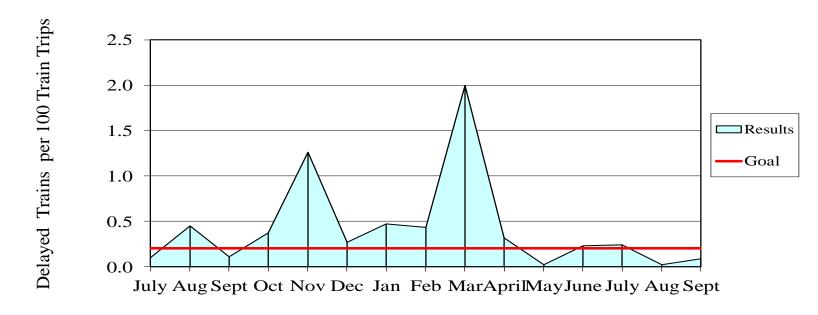


✓ Goal met



Traction Power

Includes Coverboards, Insulators, Third Rail Trips, Substations, Delays Per 100 Train Runs

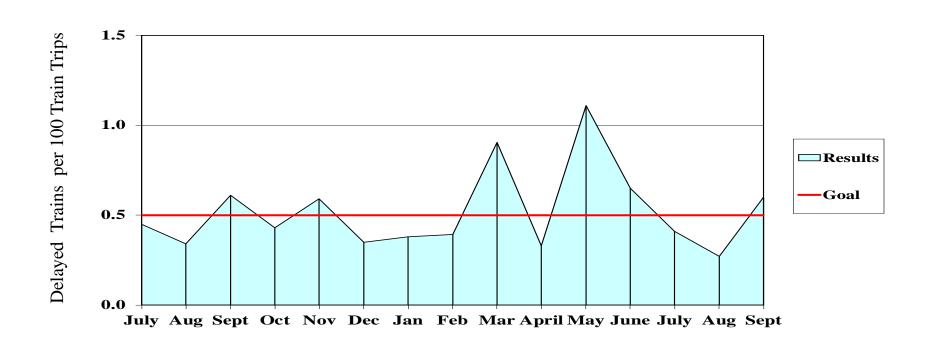


- ✓ Goal met
- ✓ Initiated Quarterly 3rd Rail Inspections (all lines)
- ✓ Traction power distribution system "at risk" pending delivery of bond projects



Transportation

Includes Late Dispatches, Controller-Train Operator-Tower Procedures and Other Operational Delays Per 100 Train Runs

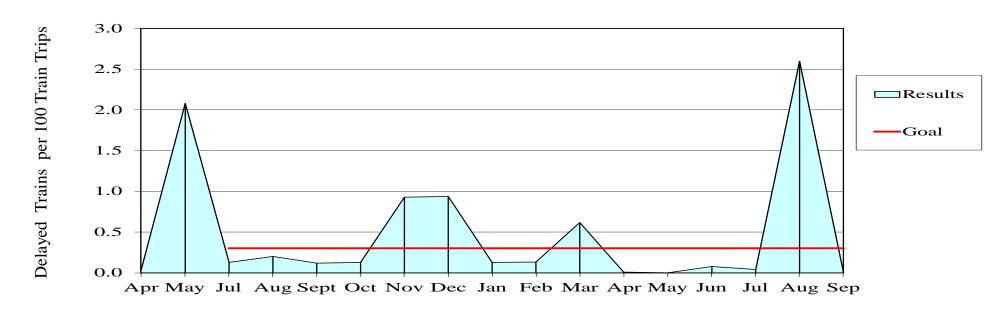


✓ 0.43; goal met and improved performance



Track

Includes Rail, Track Tie, Misalignment, Switch, Delays Per 100 Train Runs

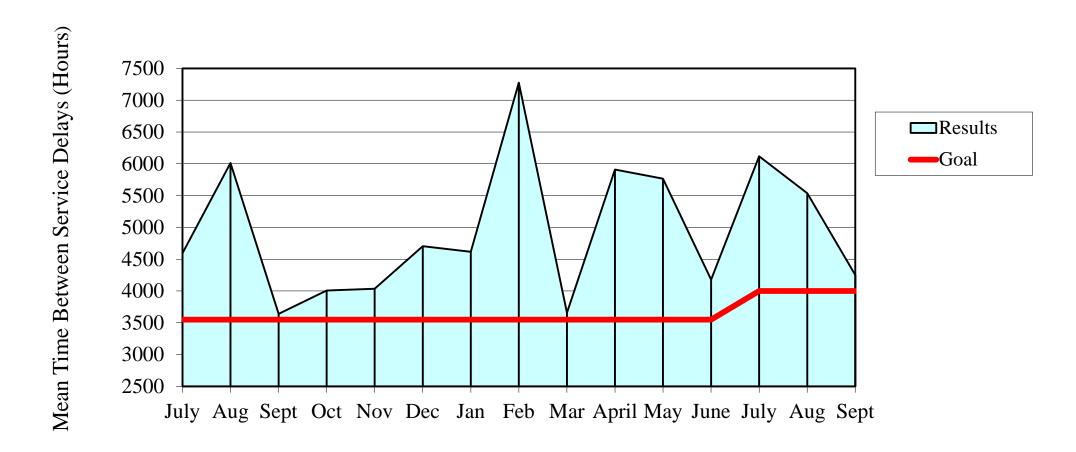


- ✓ Goal not met
- ✓ One major delay event:
 - 8/12/2016 in preparation for M85 weekend outage ground cable was loosened and not properly secured. It made contact with 3rd rail, shorted wayside mux fuses, resulted in manual operation all day, delayed 497 trains





Car Equipment - Reliability

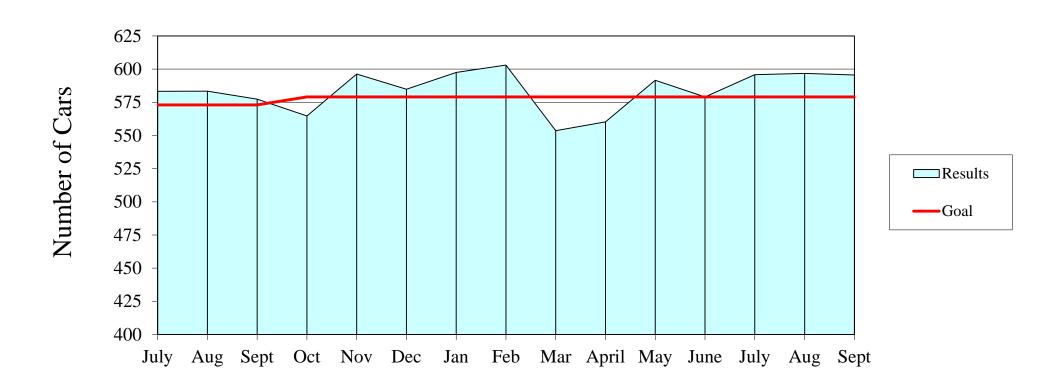


Goal met – MTBSD 5,179 hours

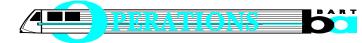




Car Equipment - Availability @ 0400 hours

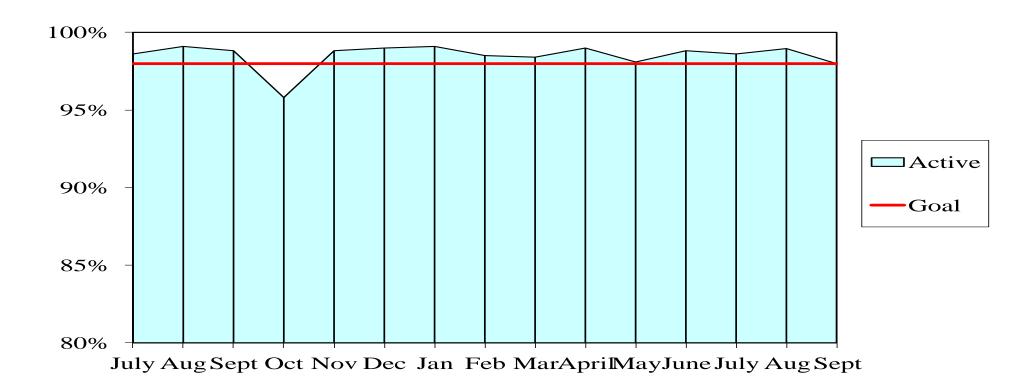


- ✓ Goal met 596 Actual vs. 579 Required
- ✓ Shops are delivering on higher car availability as resourced in last year's budget; mild weather helps
- ✓ Able to make unplanned addition to car requirements all Green Line trains now scheduled as 10 car trains





Elevator Availability - Stations

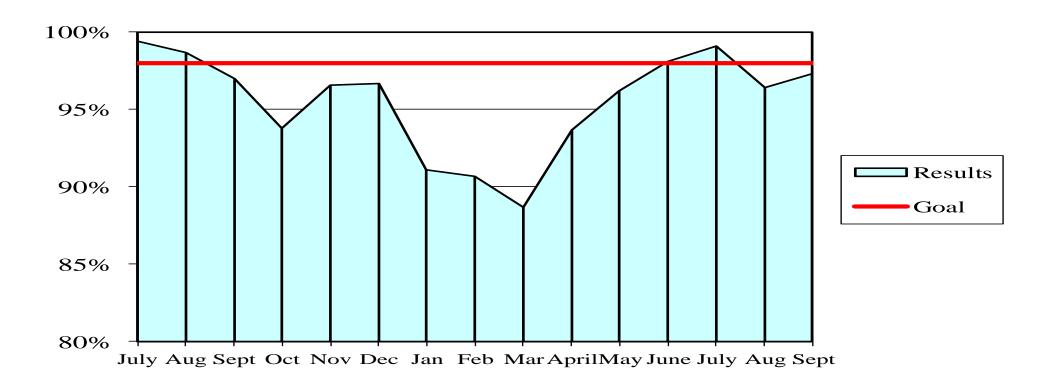


- ✓ Goal met, 98.5%
- ✓ Floor and door replacement projects on schedule to be completed by April 2017





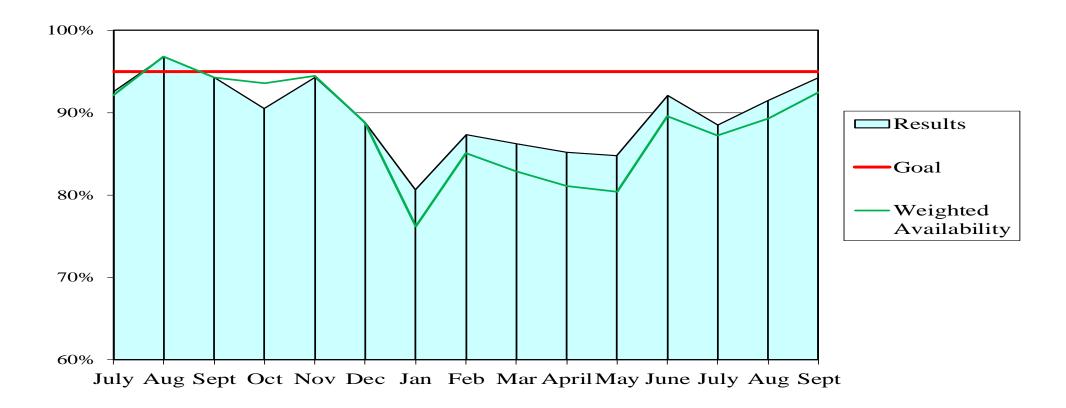
Elevator Availability - Garage



- ✓ Goal not met Actual 97.6% / Goal 98% but improved performance
- ✓ Pleasant Hill Garage Elevators continue to be problematic Project to upgrade control electronics expected to begin in August 2017



Escalator Availability - Street

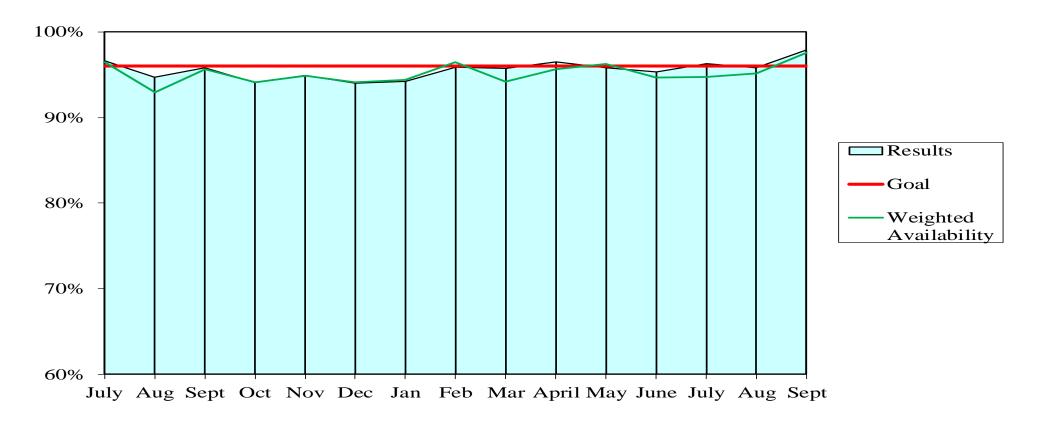


- ✓ Goal not met Actual 91.4%/ Goal 95%
- ✓ Significant 4.6% improvement over last quarter
- ✓ Beginning to see the benefit of a dedicated crew in downtown SF





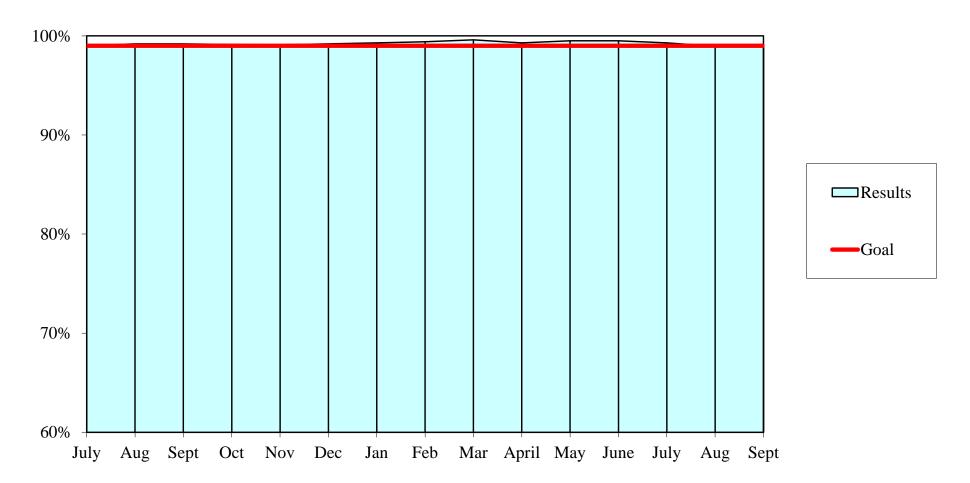
Escalator Availability - Platform



- ✓ Goal exceeded 96.67%, improved performance
- ✓ Several major planned & scheduled jobs initiated to improve reliability



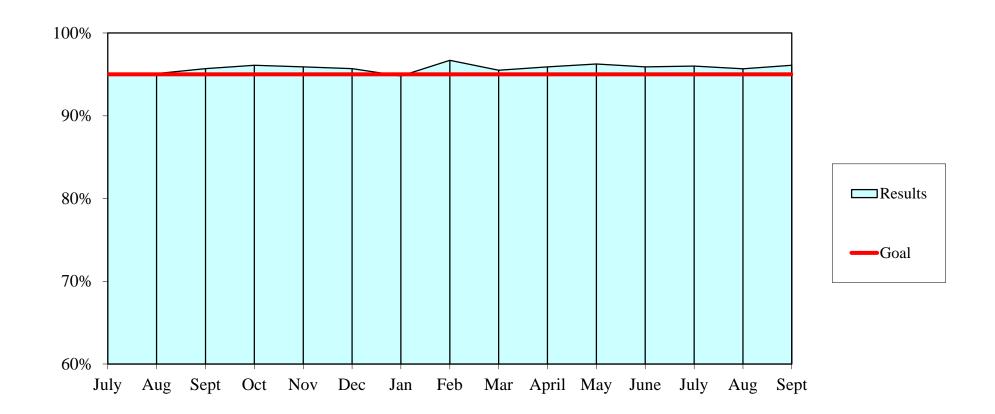
AFC Gate Availability



- ✓ Goal exceeded 99.12
- ✓ Asset Refresh in full swing- A, L &R lines complete
- ✓ Reboot times increased, Station Agent training in progress



SERVICE: How are we doing? AFC Vendor Availability

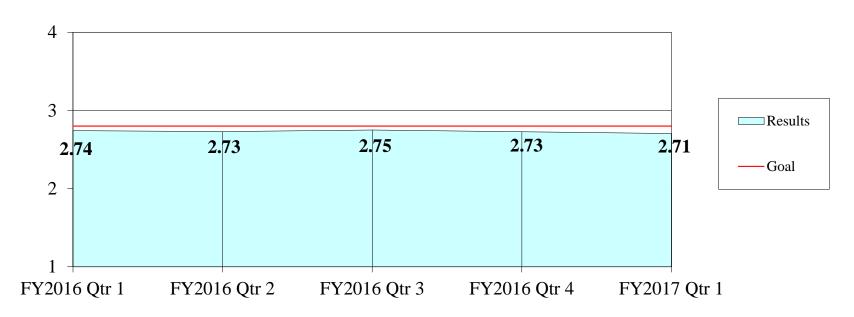


- ✓ Goal exceeded, 95.92%
- ✓ Asset Refresh complete on A, L & R lines



Environment - Outside Stations





Composite rating of: Walkways & Entry Plaza Cleanliness (50%) 2.60 BART Parking Lot Cleanliness (25%) 2.96 Appearance of BART Landscaping (25%) 2.66

- ✓ Goal not met
- ✓ Cleanliness ratings of either Excellent or Good:

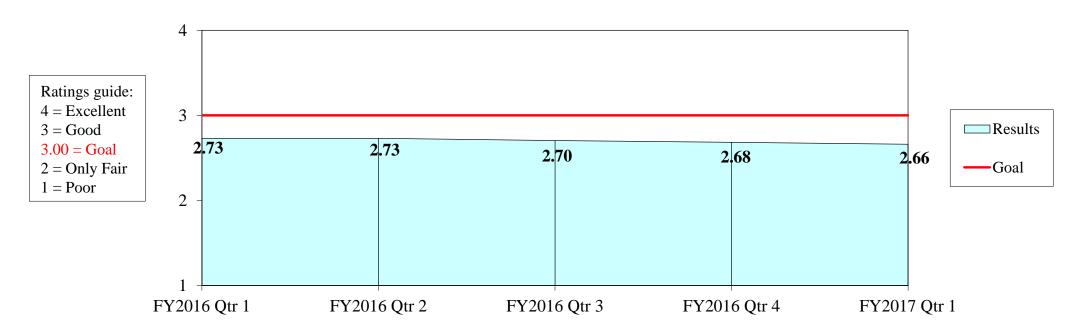
Walkways/Entry Plazas: 58.5% Parking Lots: 75.5%

Landscaping Appearance: 62.0%





Environment - Inside Stations



Composite rating for Cleanliness of:					
Station Platform (60%)	2.81				
Other Station Areas (20%)	2.60				
Restrooms (10%)	2.17				
Elevator Cleanliness (10%)	2.37				

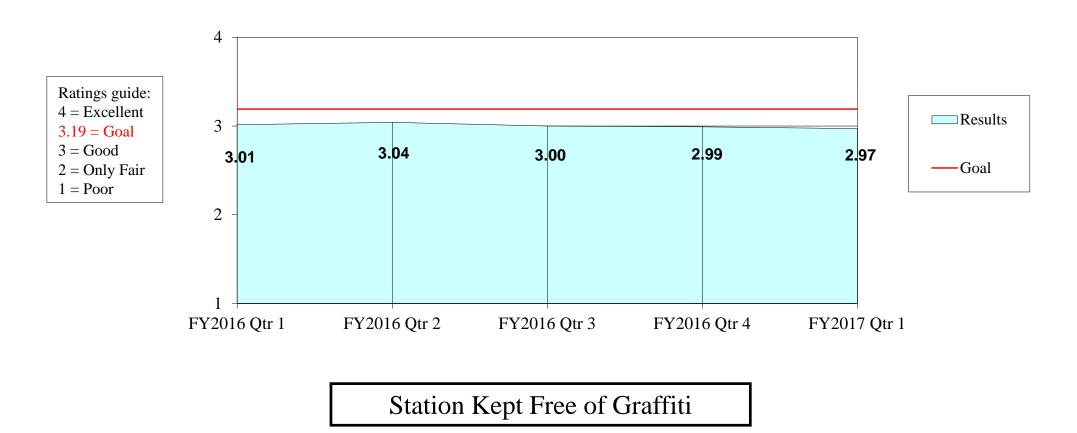
- ✓ Goal not met
- ✓ Cleanliness ratings of either Excellent or Good:

Station Platform: 70.0% Other Station Areas: 58.9%

Restrooms: 38.9% Elevators: 49.3%



SERVICE: How are we doing? Station Vandalism

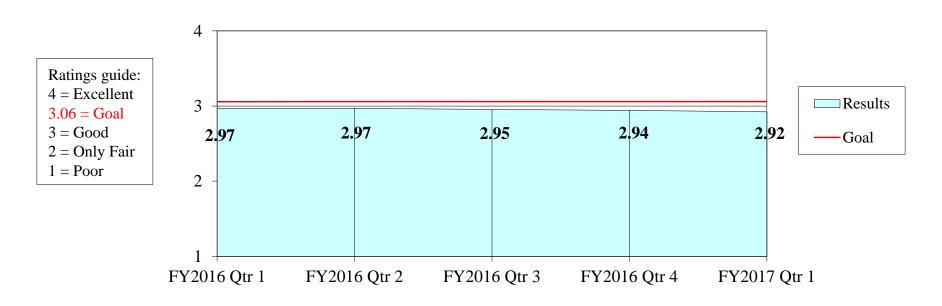


- ✓ Goal not met
- ✓ 76.3% of those surveyed ranked this category as either Excellent or Good





Station Services



Composite rating of:
Station Agent Availability (65%) 2.88
Brochures Availability (35%) 3.00

- ✓ Goal not met
- ✓ Availability ratings of either Excellent or Good:

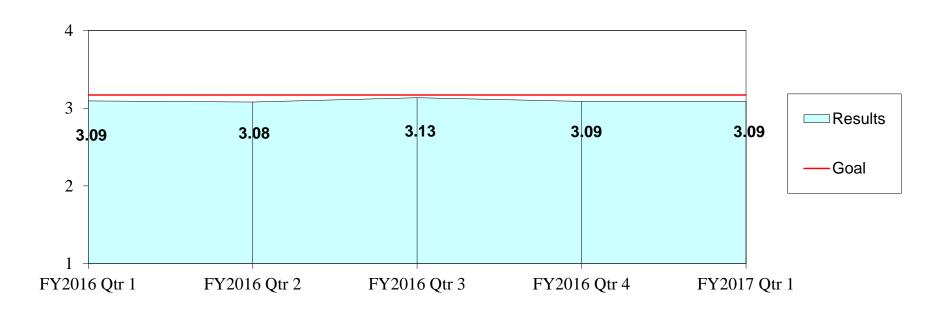
Station Agents: 73.5% Brochures: 78.2%





Train P.A. Announcements





Composite rating of:

P.A. Arrival Announcements (33%) 3.06

P.A. Transfer Announcements (33%) 3.01

P.A. Destination Announcements (33%) 3.19

✓ Goal not met

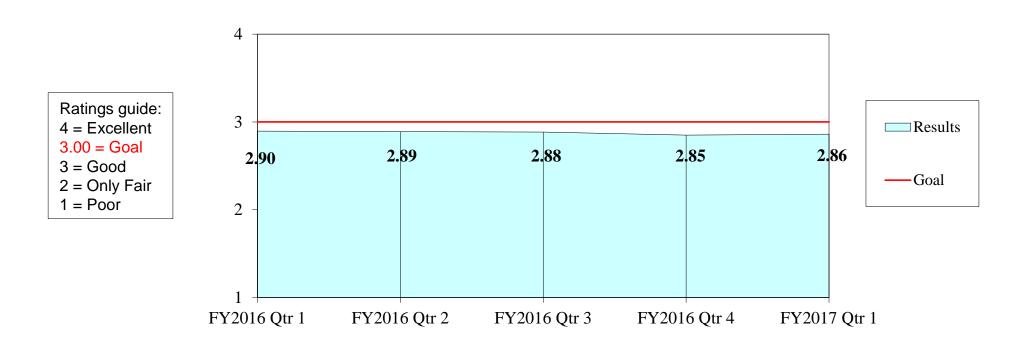
✓ Announcement ratings of either Excellent or Good:

Arrivals: 77.9% Transfers: 75.8%

Destinations: 83.7%



SERVICE: How are we doing? Train Exterior Appearance



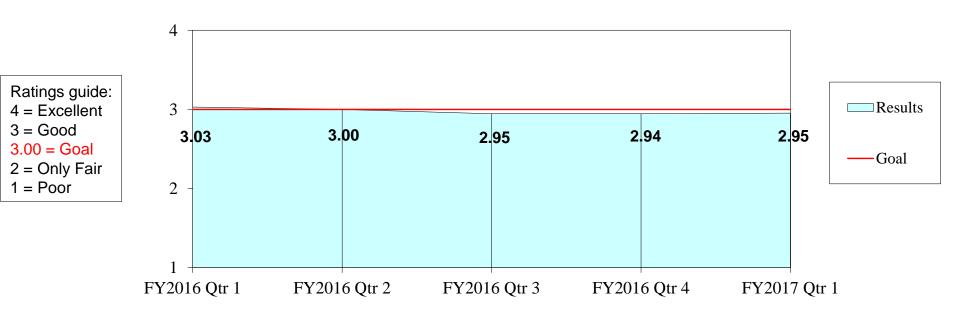
- ✓ Goal not met
- ✓ 74.4% of those surveyed ranked this category as either Excellent or Good







Train Interior Cleanliness



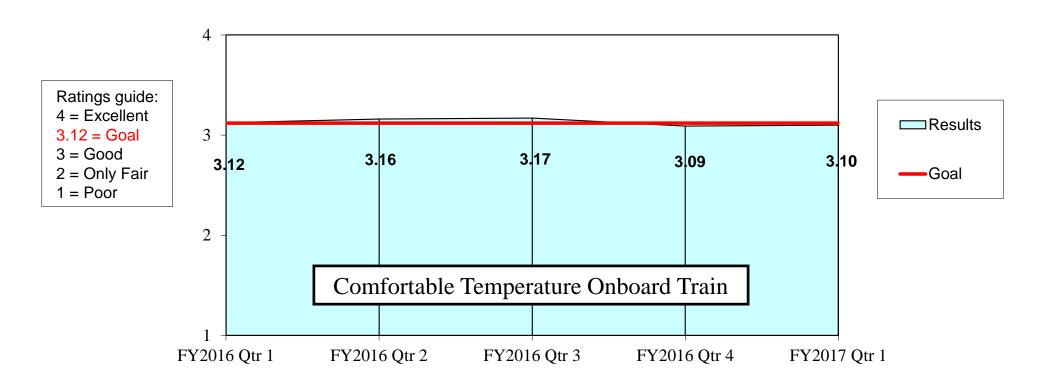
Composite rating of:
Train interior cleanliness (60%)
Train interior kept free of graffiti (40%)
3.33

- ✓ Goal not met
- ✓ Train Interior ratings of either Excellent or Good:

Cleanliness: 63.8% Graffiti-free: 91.3%



Train Temperature

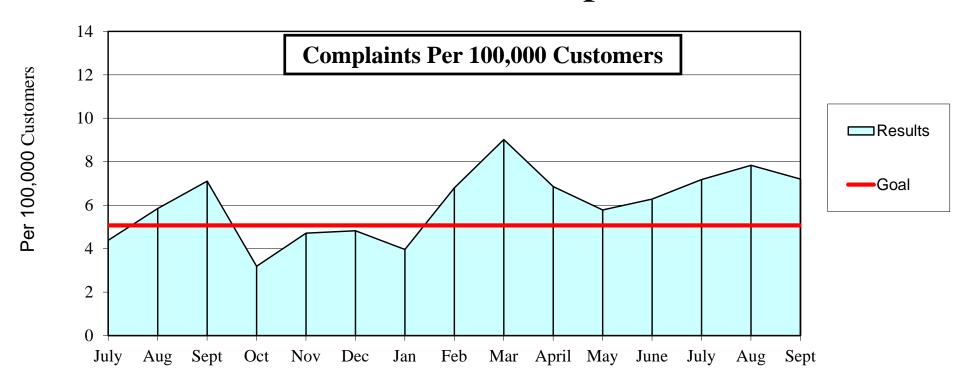


- ✓ Goal not met
- ✓ 82.1% of those surveyed ranked this category as either Excellent or Good





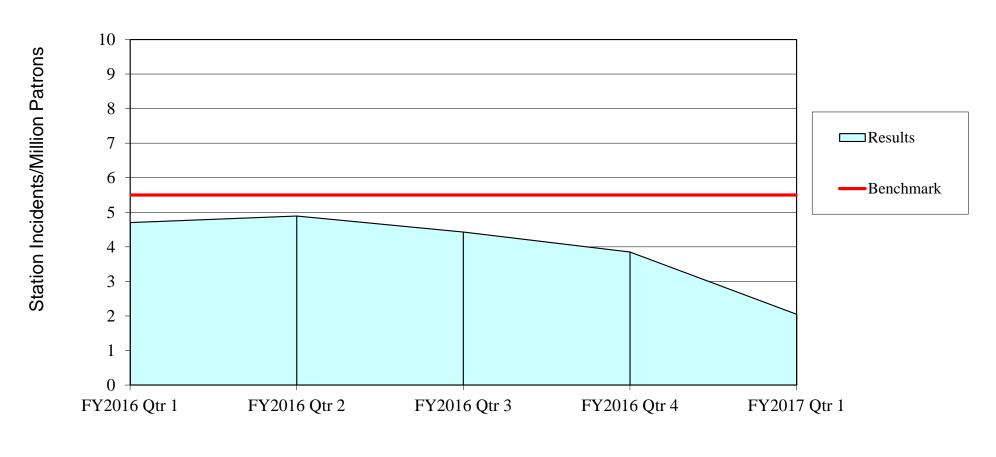
Customer Complaints



- ✓ Total complaints lodged this period increased 270 (12.8%) from last quarter, up 504 (26.9%) when compared with the first quarter FY16.
- ✓ Complaints saw increase in the areas of AFC, M&E, Parking, Passenger Information, Police Services, Policies, Station Cleanliness, Train Cleanliness and Trains.
- ✓ Decreases occur in Announcements, Personnel and Service. No changes was reflected in complaints about the Bicycle Program.
- ✓ "Compliments" dropped to 116, down from 139 (one year ago these numbered 140)

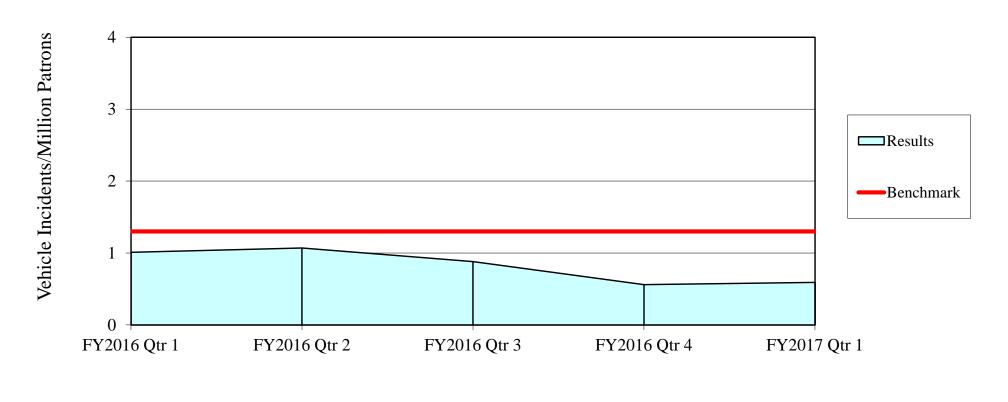


Patron Safety: Station Incidents per Million Patrons





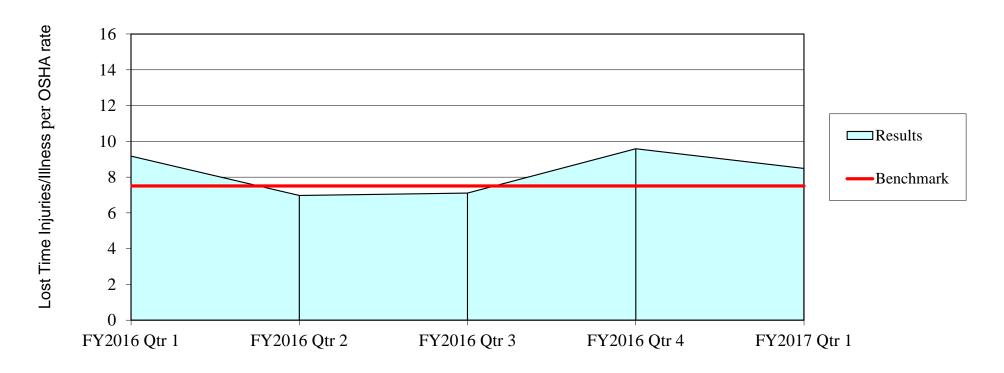
Patron Safety Vehicle Incidents per Million Patrons



✓ Goal met



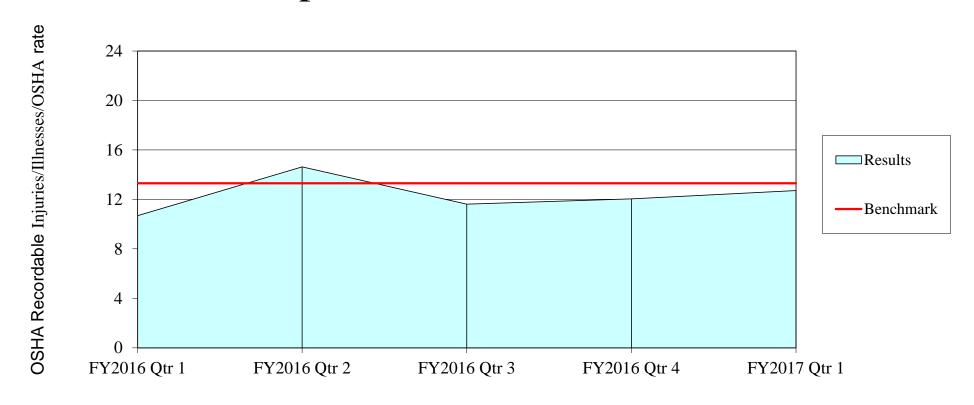
Employee Safety: Lost Time Injuries/Illnesses per OSHA Incidence Rate



- ✓ Goal not met
- ✓ Sprains and strains are the most common reported injury
- ✓ ~70% of employees reporting injuries have reported injuries previously



Employee Safety: OSHA-Recordable Injuries/Illnesses per OSHA Incidence Rate

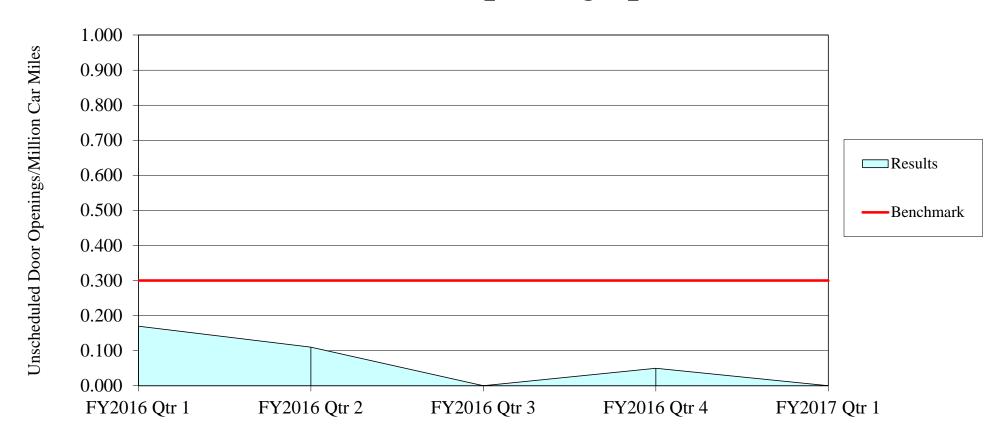


✓ Goal met



Operating Safety:

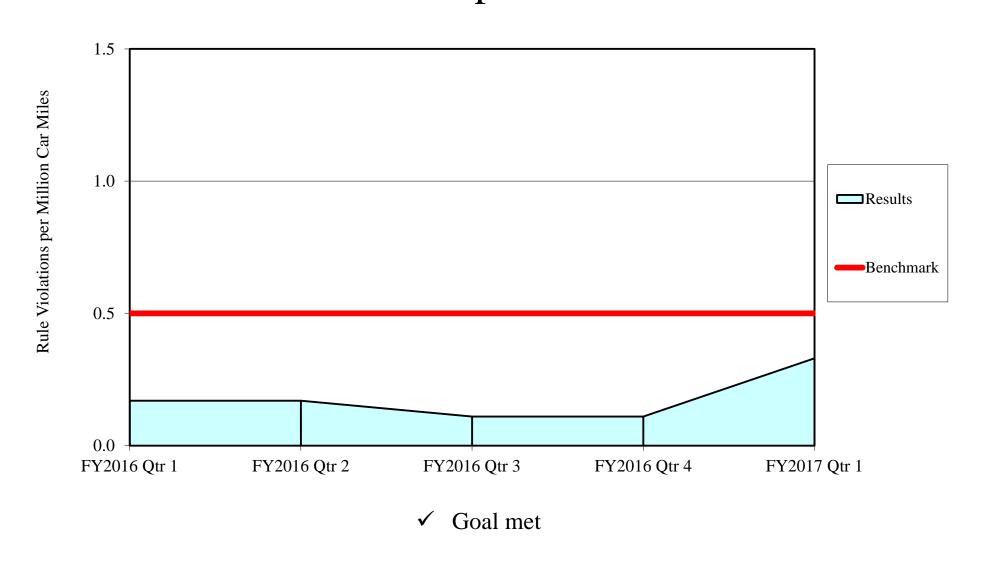
Unscheduled Door Openings per Million Car Miles



✓ Goal met – No Incidents for this quarter



Operating Safety: Rule Violations per Million Car Miles

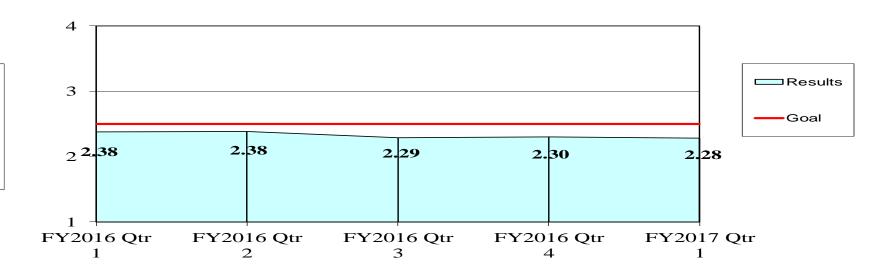






BART Police Presence

Ratings guide: 4 = Excellent 3 = Good 2.50 = Goal 2 = Only Fair 1 = Poor



Composite Rating of Adequate BART Police Presence in:
Stations (33%)

Parking Lots and Garages (33%)

Trains (33%)

2.23

2.38

2.24

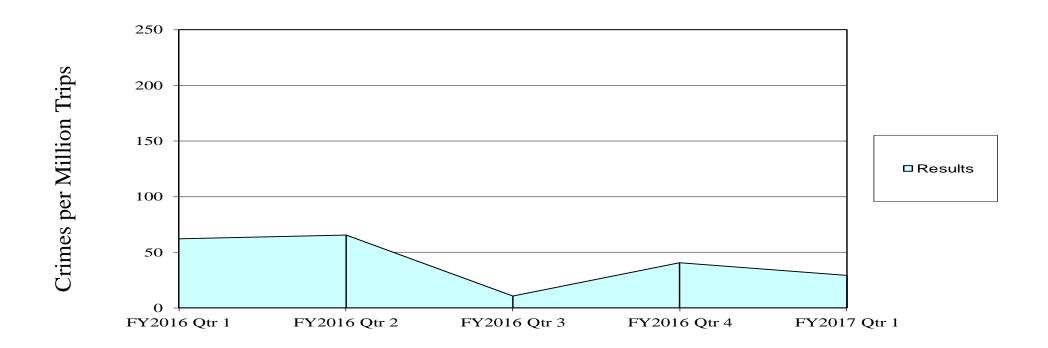
- ✓ Goal not met
- ✓ Adequate Presence ratings of either Excellent or Good:

Stations: 41.4% Parking Lots/Garages: 48.1%

Trains: 41.4%



Quality of Life*

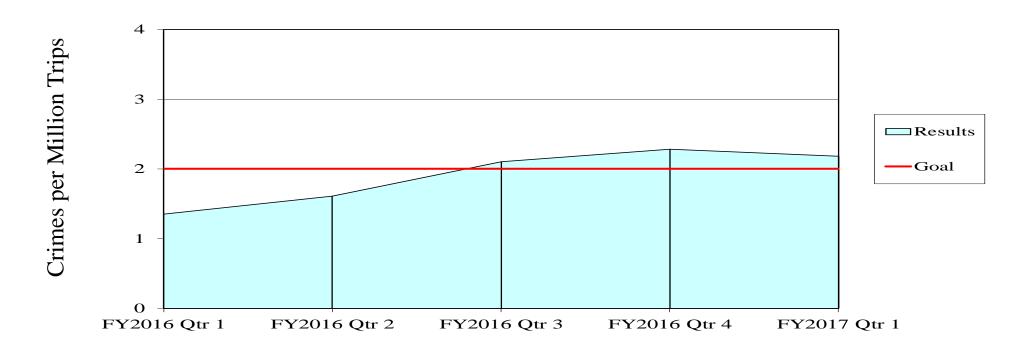


✓ Quality of Life incidents are down from the last quarter, and down from the corresponding quarter of the prior fiscal year.

*Quality of Life Violations include: Disturbing the Peace, Vagrancy, Public Urination, Fare Evasion, Loud Music/Radios, Smoking, Eating/Drinking and Expectoration

SERVICE: How are we doing? Crimes Against Persons

(Homicide, Rape, Robbery, and Aggravated Assault)

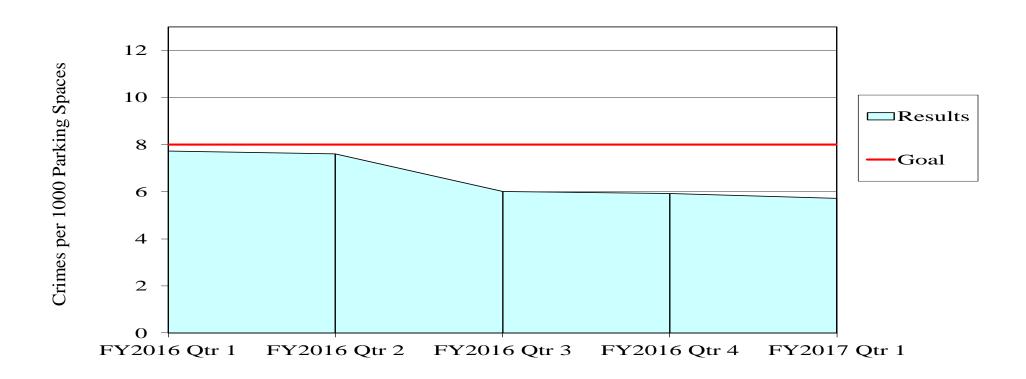


- ✓ Goal not met
- ✓ Crimes against persons are down from the last quarter, and up from the corresponding quarter of the prior fiscal year.





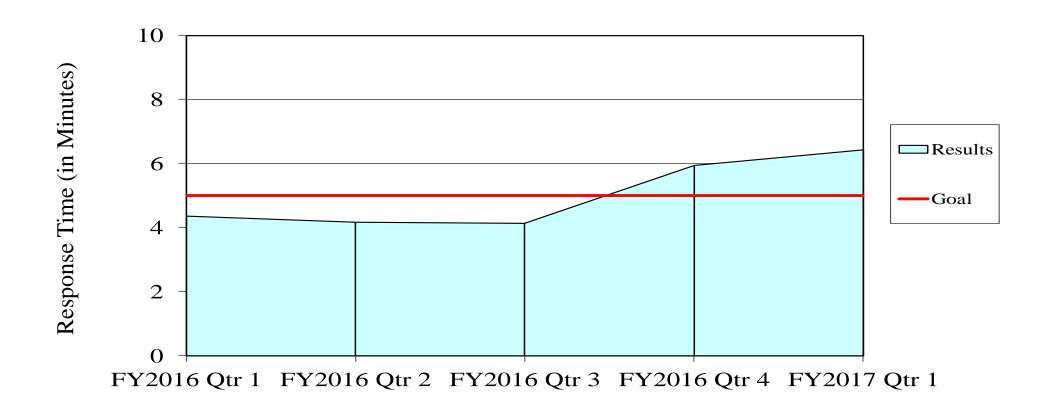
Auto Theft and Burglary



- ✓ Goal met
- ✓ The number of incidents per thousand parking spaces are down from last quarter, and down from the corresponding quarter from the prior fiscal year.



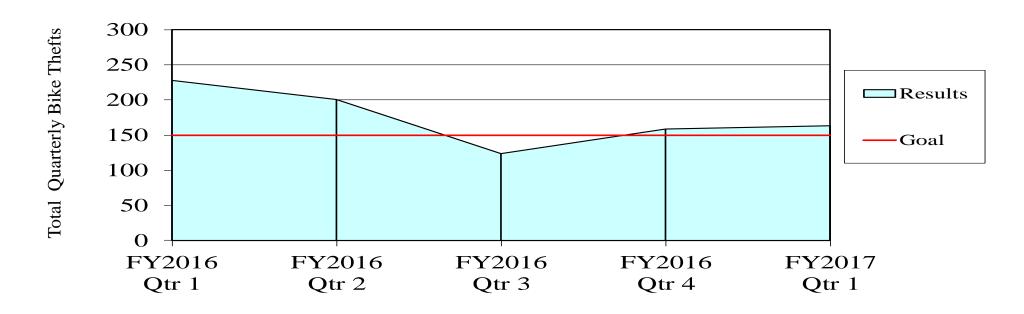
SERVICE: How are we doing? Average Emergency Response Time



✓ The Average Emergency Response Time goal was not met for the quarter.



Bike Theft



- ✓ Goal not met
- ✓ 163 bike thefts for current quarter, up 4 from last quarter and up from the corresponding quarter of the prior fiscal year.
- * The penal code for grand theft value changed in 2011. The software was updated, which resulted in a change of bicycle theft statistics effective FY12-Q3.