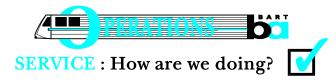


## Quarterly Service Performance Review Second Quarter, FY 2017 October - December, 2016

Operations & Safety Committee February 9, 2017

SUMMARY CHART 2nd QUARTER FY 2017										
PERFORMANCE INDICATORS	CURRENT QUARTER			PRIOR QT	R ACTUALS		YEAR TO DATE			
					LAST	THIS QTR				
	ACTUAL	STANDARD	STATUS		QUARTER	LAST YEAR	ACTUAL	STANDARD	STATUS	
Average Ridership - Weekday	425,944	444,589	NOT MET		432,002	431,339	429,122	445,992	NOT MET	
Customers on Time										
Peak	87.53%	95.00%	NOT MET		90.00%	87.73%	88.77%	95.00%	NOT MET	
Daily	90.09%	95.00%	NOT MET		91.97%	90.85%	91.03%	95.00%	NOT MET	
Trains on Time										
Peak	82.28%	N/A	N/A		85.84%	82.51%	84.06%	N/A	N/A	
Daily	84.66%	92.00%	NOT MET		88.24%	86.75%	86.45%	92.0%	NOT MET	
Peak Period Transbay Car Throughput										
AM Peak	98.57%	97.50%	MET		98.71%	94.28%	98.64%	97.50%	MET	
PM Peak	99.16%	97.50%	MET		99.72%	94.61%	99.44%	97.50%	MET	
Car Availability at 4 AM (0400)	592		NOT MET		596		594	587	MET	
Mean Time Between Service Delays	5,322	4,000	MET		5,179	4,228	5,251	4,000	MET	
Elevators in Service										
Station	98.23%		MET		98.50%	97.87%	98.37%		MET	
Garage	95.63%	98.00%	NOT MET		97.60%	95.70%	96.62%	98.00%	NOT MET	
Escalators in Service										
Street	92.27%	95.00%	NOT MET		91.40%	91.20%	91.83%	95.00%	NOT MET	
Platform	96.83%	96.00%	MET		96.67%	94.33%	96.75%	96.00%	MET	
Automatic Fare Collection										
Gates	99.07%		MET		99.12%	99.14%	99.09%		MET	
Vendors	95.68%	95.00%	MET		95.92%	95.90%	95.80%	95.00%	MET	
Wayside Train Control System	1.92		NOT MET		1.08		1.50		NOT MET	
Computer Control System	0.157		NOT MET		0.029		0.093		NOT MET	
Traction Power	0.46		NOT MET		0.12		0.29		NOT MET	
Track	0.13		MET		0.88		0.51		NOT MET	
Transportation	0.42		MET		0.43		0.43		MET	
Environment Outside Stations	2.75		NOT MET		2.71	2.73	2.73		NOT MET	
Environment Inside Stations	2.63		NOT MET		2.66		2.65		NOT MET	
Station Vandalism	2.98		NOT MET		2.97	3.04	2.98		NOT MET	
Station Services	2.88		NOT MET		2.92		2.90		NOT MET	
Train P.A. Announcements	3.10		NOT MET		3.09		3.09		NOT MET	
Train Exterior Appearance	2.83		NOT MET		2.86		2.84		NOT MET	
Train Interior Appearance	2.89		NOT MET		2.95		2.92		NOT MET	
Train Temperature	3.11	3.12	NOT MET		3.10	3.16	3.11	3.12	NOT MET	
Customer Complaints										
Complaints per 100,000 Passenger Trips	6.53	5.07	NOT MET		7.41	4.20	6.97	5.07	NOT MET	
Safety	_		• • <b>-</b>		_		_		<b></b>	
Station Incidents/Million Patrons	2.11		MET		2.05		2.08		MET	
Vehicle Incidents/Million Patrons	0.26		MET		0.59		0.43			
Lost Time Injuries/IIInesses/Per OSHA	6.56		MET		8.48		7.52			
OSHA-Recordable Injuries/IIInesses/Per OSHA	10.80		MET		12.72		11.76		MET	
Unscheduled Door Openings/Million Car Miles	0.110		MET		0.000		0.055		MET	
Rule Violations Summary/Million Car Miles	0.110	0.500	MET		0.330	0.170	0.220	0.500	MET	
Delies										
Police		N//A	NI/A		NI/A	NI/A	N1/A	N/A	N1/A	Ш
BART Police Presence	0.11		N/A		N/A	N/A	N/A	N/A	N/A	Ш
Quality of Life per million riders	60.08		N/A		29.08		44.58		N/A	
Crimes Against Persons per million riders	2.24		NOT MET		2.18		2.21		NOT MET	
Auto Theft and Burglaries per 1,000 parking spaces	6.89		MET		5.72		6.31		MET	
Police Response Time per Emergency Incident (Minutes)	6.29		NOT MET		6.43		6.36		NOT MET	
Bike Thefts (Quarterly Total and YTD Quarterly Average)	109	150.00	MET		163	201	136	5 150.00	MET	
LEGEND: Goal n			net but within	-			Goal not met h			

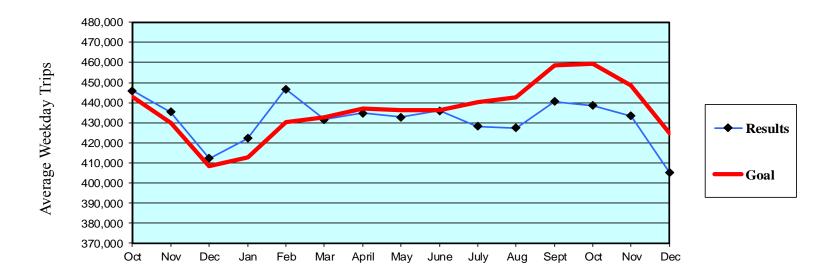
Goal met



#### FY17 Second Quarter Overview

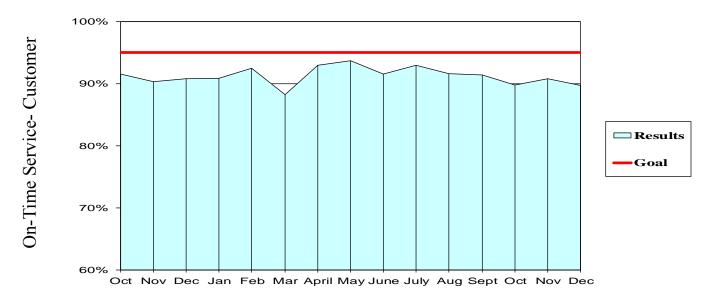
- ✓ Ridership declined; down 2.7% overall
- ✓ Peak period ridership not declining
- ✓ Train service reliability declined
- Equipment Reliability: Car, Track and Transportation met; Traction Power, Train Control and Computer Control System not met
- Equipment Availability: Platform Escalators, Station Elevators, Fare Gates, Ticket Machines met; Street Escalators, Garage Elevators and Cars not met
- Passenger Environment: 2 of 4 Station indicators improved, none met goal; 2 of 4 Train indicators improved, none met goal
- ✓ Complaints decreased





- $\checkmark$  Total ridership decreased by 2.7% compared to same quarter last year
- ✓ Average weekday ridership (425,944) down 1.3% from same quarter last year
- $\checkmark\,$  Core weekday ridership down by 1.0% from same quarter last year
- ✓ SFO Extension weekday ridership down by 2.9% from same quarter last year
- ✓ Average peak ridership during the period was up slightly (0.26%) compared to the same quarter last year.
- ✓ During Q2 there were two Top 10 Ridership Days:
  - 10/6/2016 465,688 Dreamforce 2016; 49ers vs. Arizona (#9)
  - 11/3/2016 464,224 Warriors vs. Oklahoma City (#10)
- ✓ Saturday and Sunday down by 7.1% and 2.2%, respectively, over same quarter last year

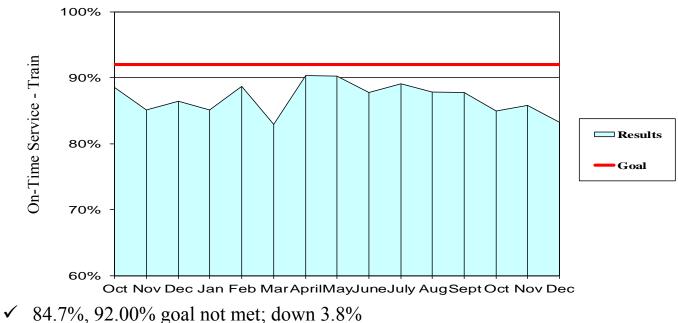




- ✓ 90.1%, 95.00% goal not met, down 1.9 %
- $\checkmark$  Delay events causing the most late trains:

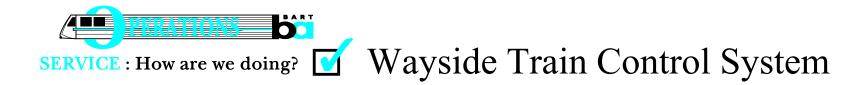
1	03-Nov-16	Daly City	Net.com (Field Comm Link)	Equip	124
2	20-Oct-16	Lake M erritt	MUX (False Occupancy)	Equip	86
3	14-Oct-16	Daly City	PG & E Power Outage	Utilities	82
4	<b>19</b> -Oct-16	Emb.I-Lock	Routing (Switch)	Equip	75
5	<b>15</b> -Oct-16	Civic Center	Person On Trackway(Person Refuses to Leave Wayside)	People	66
6	29-Nov-16	24th St. I-Lk	Routing (Switch)	Equip	66
7	<b>16</b> -Dec-16	в.⊢мerge I-Lk	Routing (Switch)(Broken Spring)(0520-0932)	Equip	62
8	<b>13</b> -Dec-16	T-Bay Tube	Brake (Smoke Odor)(Circuit Breaker Tripped)	Vehicle	62
9	<b>15</b> -Dec-16	Systemwide	Weather (Heavy Rain) (Reduced Speed) (0700-2400)	Weather	62
10	<b>10</b> -Dec-16	Balboa Park	3rd Rail Power(Repeating Sectional Trip)(1318-1709)	Equip	52

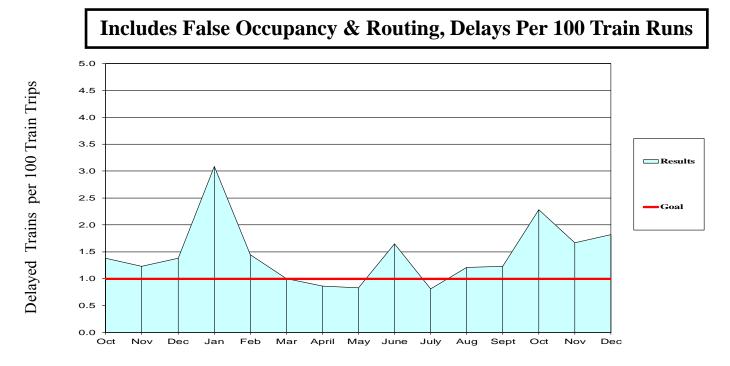




- $\checkmark$  84.7%, 92.00% goal not met, down 3
- ✓ 8,555 Late trains at End-of-Line
  - 1. \*Multiple small delays (each under 5 min)
  - 2. Other Miscellaneous (multiple cause, object on track, passenger transfers, person struck)
  - 3. Train Control
  - 4. BPD
  - 5. Revenue Vehicle
  - 6. Wayside Maintenance Work
  - 7. Vandalism
  - 8. Traction Power
  - 9. Operations
  - 10. Sick Passenger

- 47.7% of delayed trains
- 15.4% of delayed trains
- 9.9% of delayed trains
- 8.4% of delayed trains
- 4.3% of delayed trains
- 3.2% of delayed trains
- 2.6% of delayed trains
- 2.3% of delayed trains
- 2.2% of delayed trains
- 1.8% of delayed trains

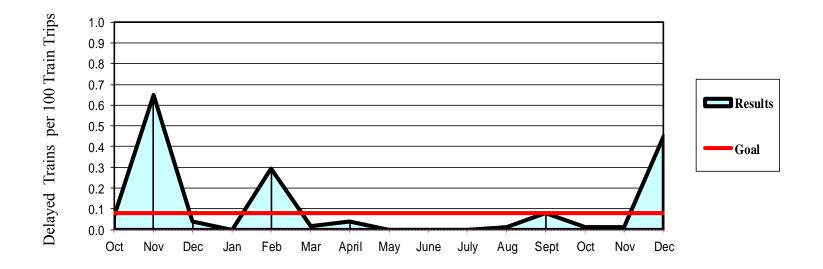




- ✓ 1.92, 1.00 goal not met
- Working with Alstom to remedy Switch Motor Controller failure in new switches.
- ✓ Biggest Train Control caused delay (86 late trains) due to aged cable insulation on track circuit receiver coil, system wide replacement project underway.

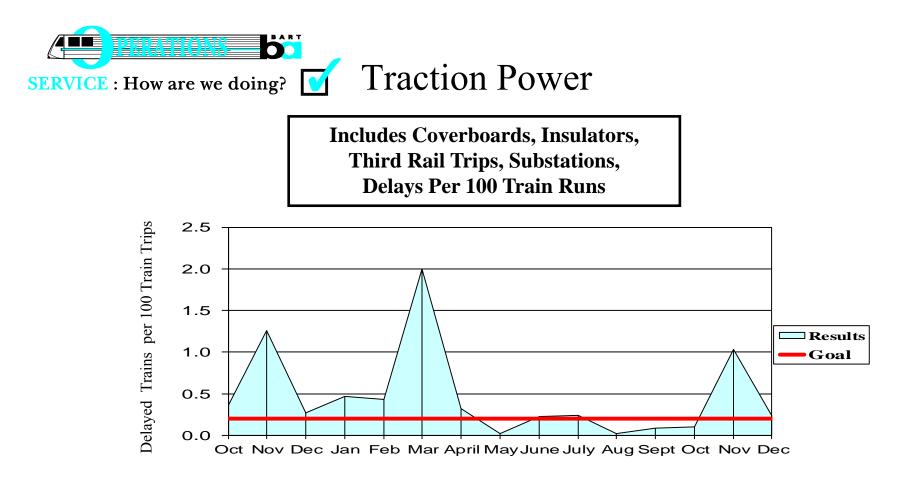


Includes ICS computer & SORS, Delays per 100 train runs



 $\checkmark$  Goal not met due to one incident in December

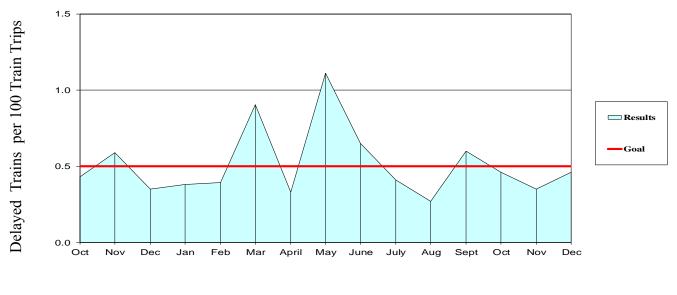
✓ Local software glitch required engineering support



- ✓ Multiple third rail coverboard pin failures throughout quarter identified as pin fatigue; caused by high winds, high speed train vibration. Installing metal collars on pins to mitigate.
- ✓ Debris fire; damage to expansion joint cables at Montgomery repairs completed.
- ✓ Planning underway to move third rail expansion joints out of the platform area and to make them cableless.



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

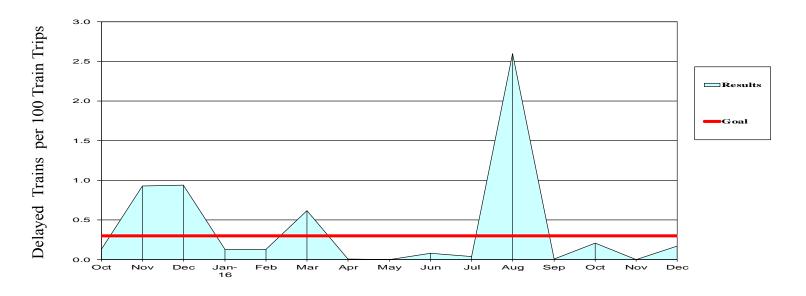


✓ Goal met



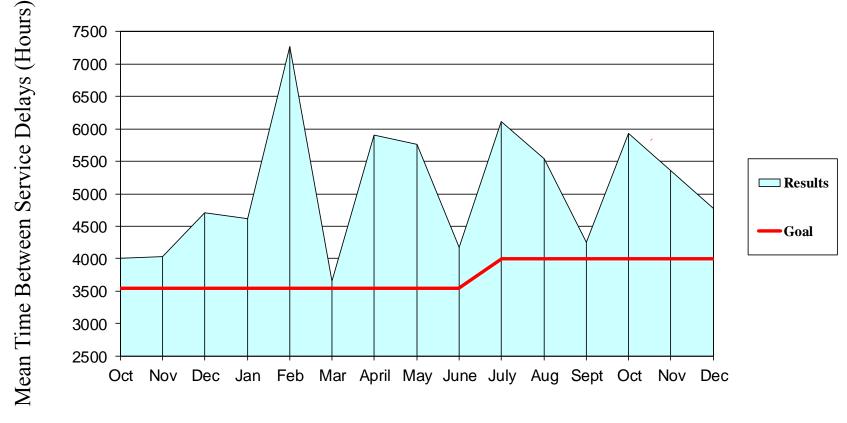
Track

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



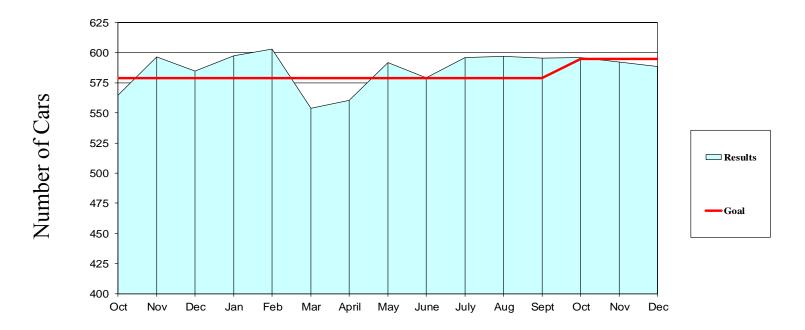
✓ Goal met





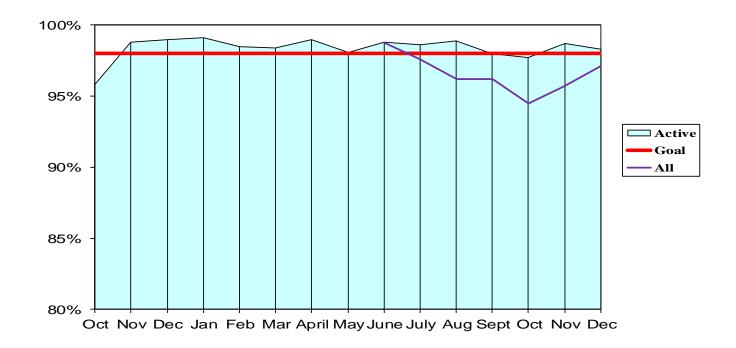
✓ Goal met – MTBSD 5,322 hours





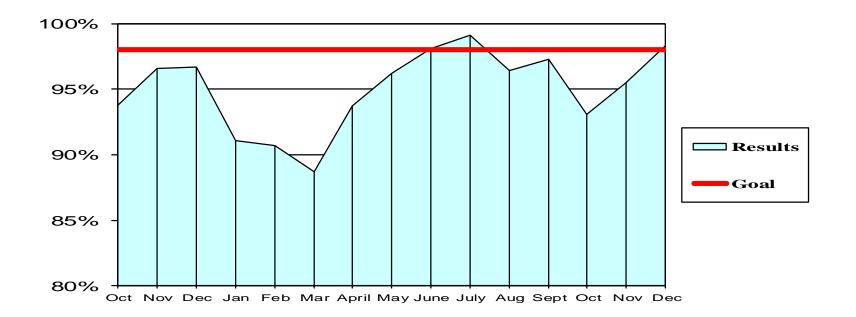
- ✓ Goal not met 592 Actual vs. 595 Required
- $\checkmark$  Fleet car availability requirement went up to 595 in fall.
- ✓ Rains causing wheel flats impacted mostly the Concord fleet. Due to Concord not having a wheel truing machine, Concord cars were queued up in Hayward for wheel cutting or axle changes.





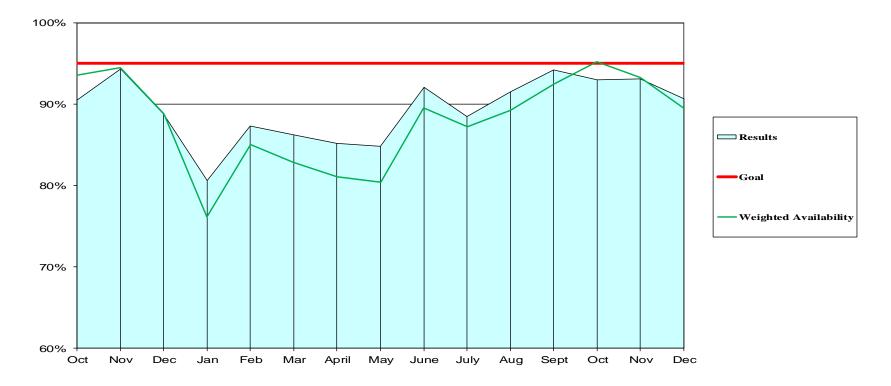
- ✓ Goal met
- Blue line measures availability including planned project work (doors and floors)





- ✓ Goal 98% not met, attained 95.63%, a drop of 1.97% from last quarter
- Pleasant Hill and San Bruno were worst performers, San Bruno due to water intrusion which damaged the elevator controller

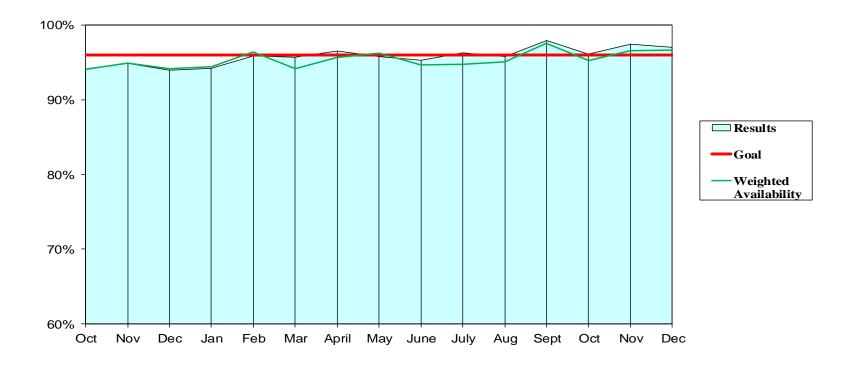




✓ Goal 95%, actual 92.27%, slight improvement.

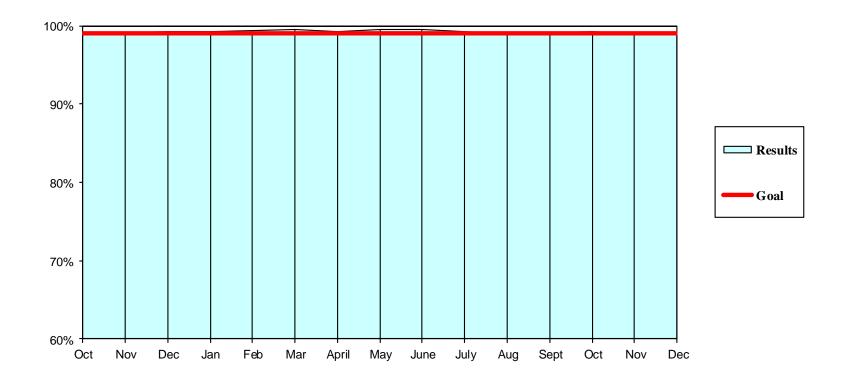
- ✓ Escalator electrical shorts due to water intrusion from the rain continue to outpace resources.
- ✓ Major repairs at Civic Center and 16<sup>th</sup> Street.





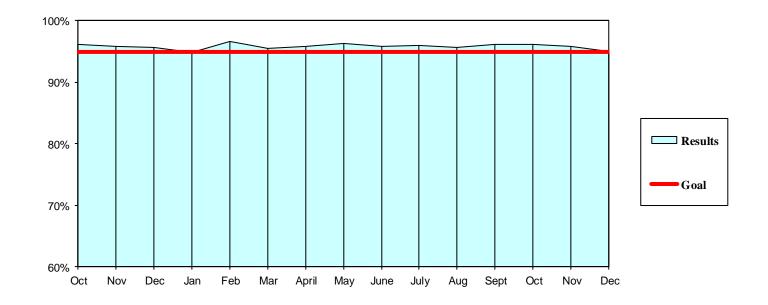
- $\checkmark$  Goal met and performance improved
- ✓ Relocated department and bid reworked to improve efficiency
- ✓ Five (5) Trainee's completed CCCM Program & awaiting State Certification
- ✓ Attempt to contract repairs when failures outpace resources, contractor availability limited





- ✓ Goal met
- ✓ Working to resolve problem with Gate Aisle Sensor on Asset Refresh

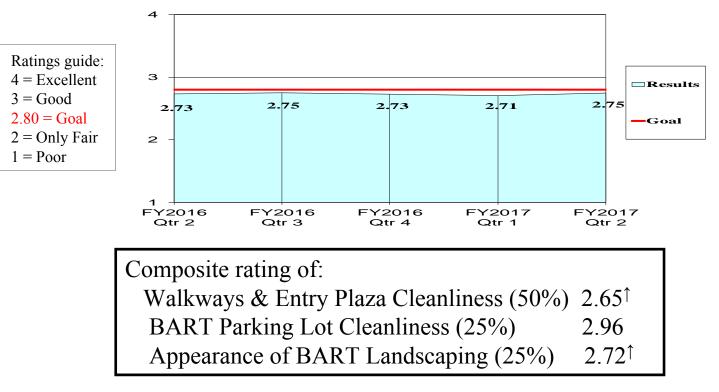




✓ Goal exceeded, 95.90%

- ✓ Add Fare Availability 98.35%
- ✓ Add Fare Parking Availability 98.87%
- ✓ Parking Validation Machines Availability 99.99%

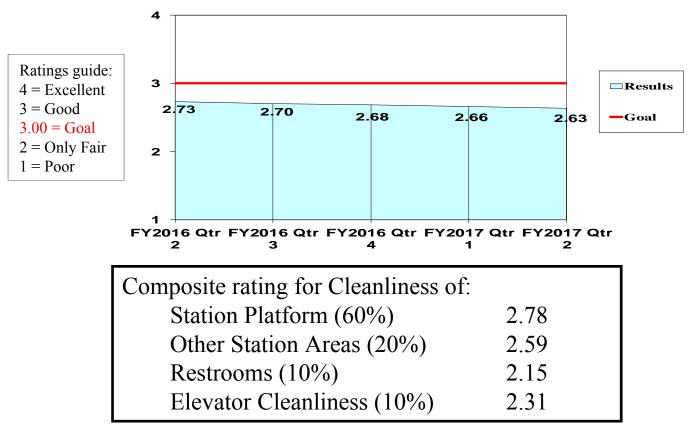




- ✓ Goal not met but improved performance (Walkways/Entry Plaza and Landscaping)
- ✓ Cleanliness ratings of either Excellent or Good:

Walkways/Entry Plazas: 61.7% Parking Lots: 77.2% Landscaping Appearance: 65.2%

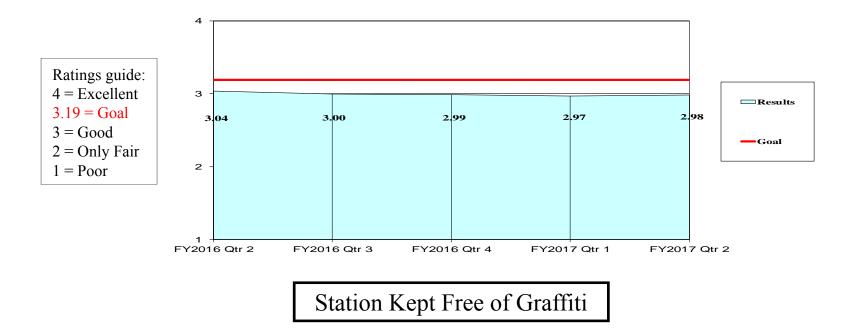




✓ Goal not met, slight improvement on M/W Line

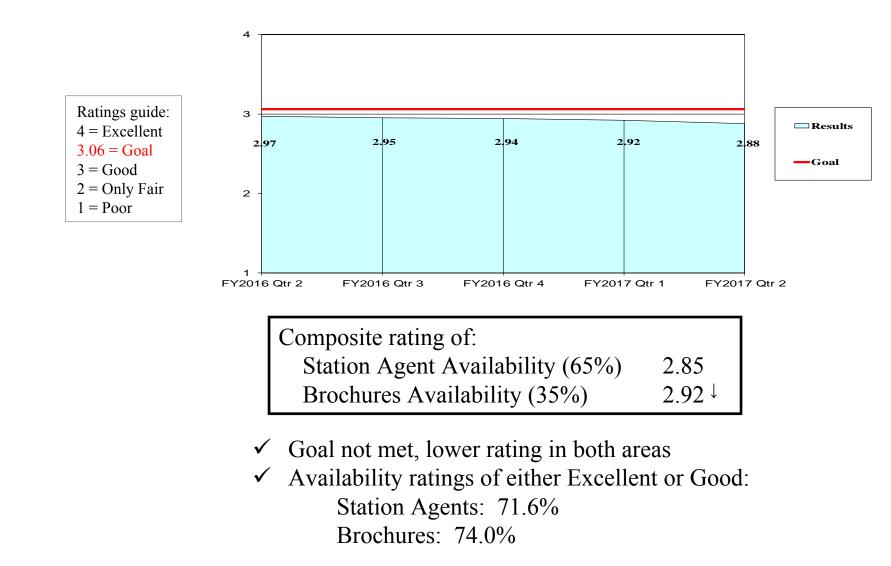
 Cleanliness ratings of either Excellent or Good: Station Platform: 68.6% Other Station Areas: 58.1% Restrooms: 38.8% Elevators: 46.6%





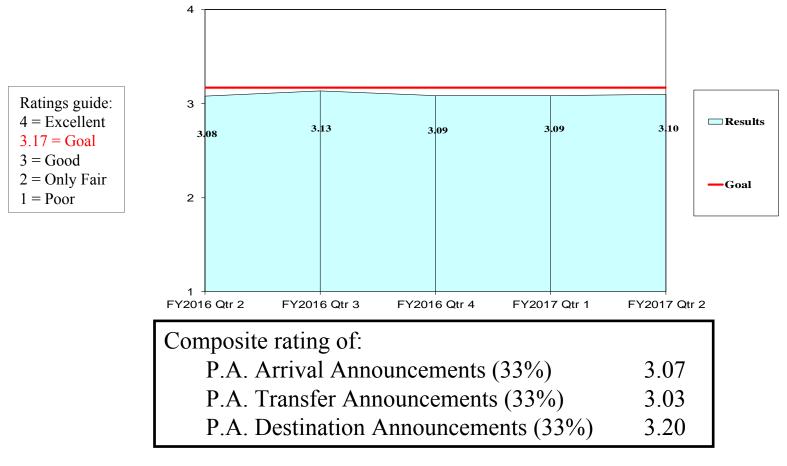
- ✓ Goal not met, slight improvement
- ✓ 76.5% of those surveyed ranked this category as either Excellent or Good





 $\downarrow$  indicates a statistically significant decrease from the prior quarter

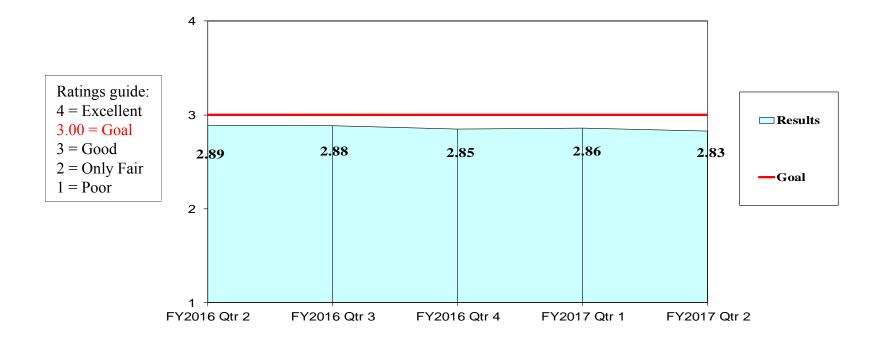
SERVICE : How are we doing? Train P.A. Announcements



- $\checkmark$  Goal not met but slight improvement for all three types
- ✓ Announcement ratings of either Excellent or Good: Arrivals: 77 8%

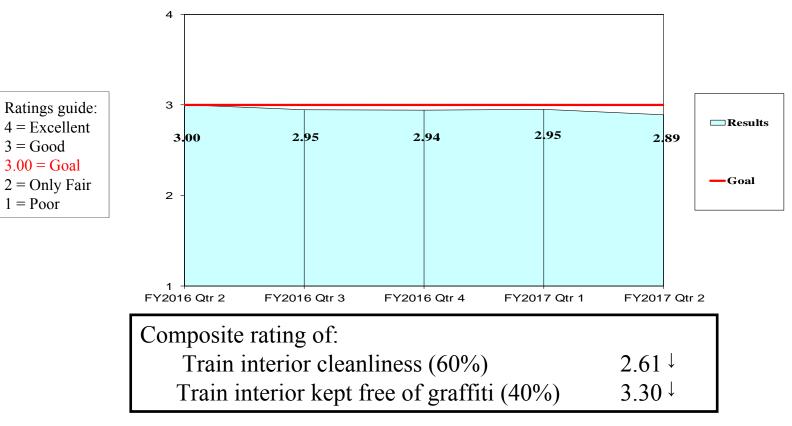
Transfers: 76.6% Destinations: 83.7%





- $\checkmark$  Goal not met
- $\checkmark$  73.0% of those surveyed ranked this category as either Excellent or Good

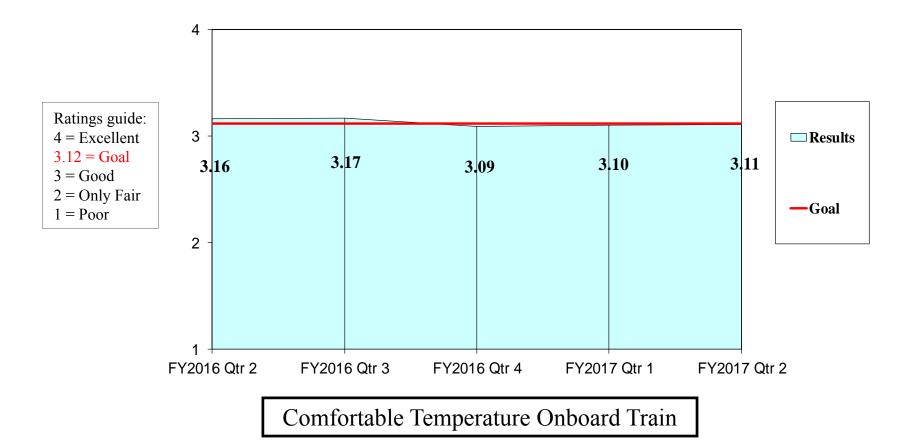




✓ Goal not met

- ✓ Making adjustments to better balance work program
- ✓ Train Interior ratings of either Excellent or Good: Train Interior Cleanliness: 59.5% Graffiti-free: 90.1%

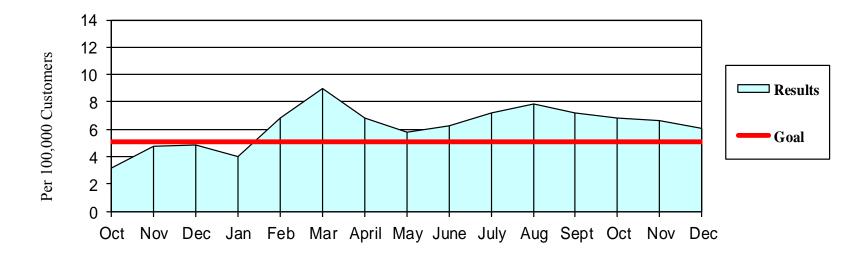




- ✓ Goal not met but slight improvement
- $\checkmark$  84.1 % of those surveyed ranked this category as either Excellent or Good

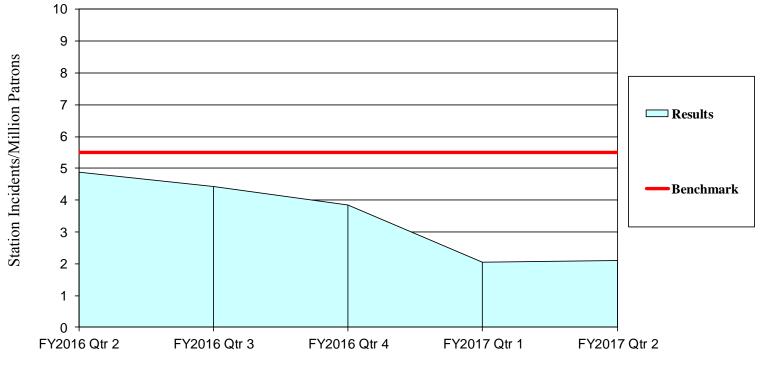


**Complaints Per 100,000 Customers** 

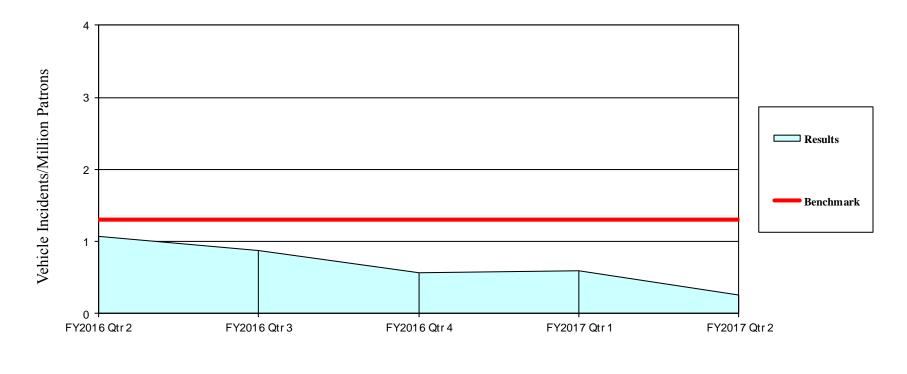


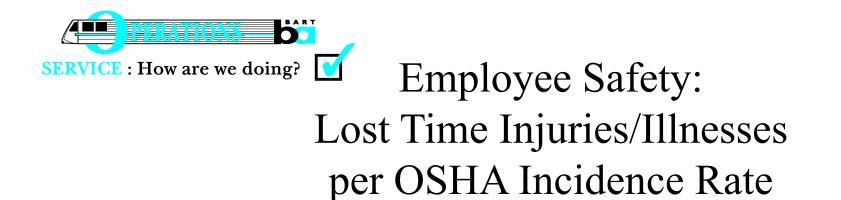
- ✓ 6.53 complaints/100,000 riders, goal 5.07/100,000 riders
- ✓ Total complaints decreased 366 (15.3%) from last quarter
- ✓ All categories improved except Announcements, Passenger Information, and Train Cleanliness.
- ✓ A new category, "Quality of Life" was instituted to capture complaints related to non-criminal matters but formerly logged under BPD.
- ✓ "Compliments" dropped to 86, down from 116

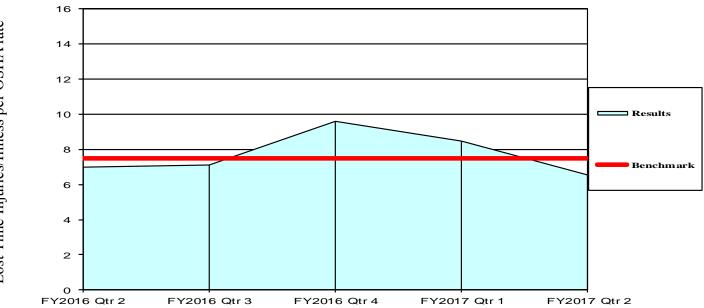








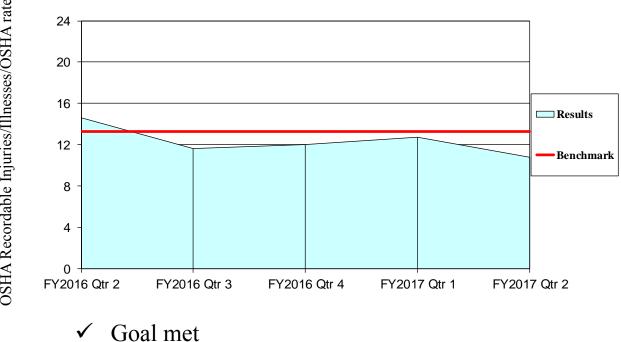




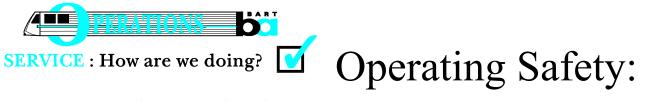
Lost Time Injuries/Illness per OSHA rate



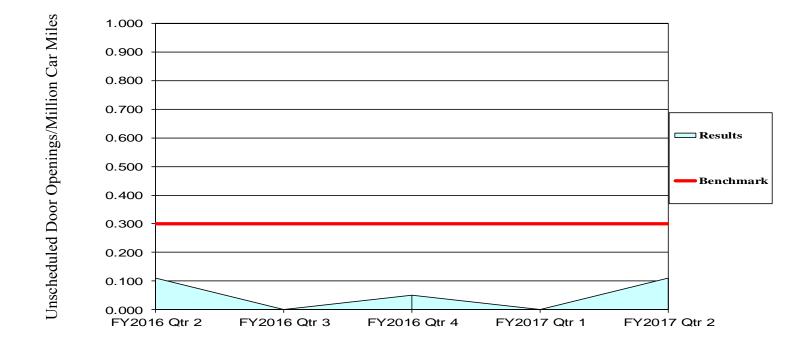
### Employee Safety: OSHA-Recordable Injuries/Illnesses per OSHA Incidence Rate



OSHA Recordable Injuries/Illnesses/OSHA rate

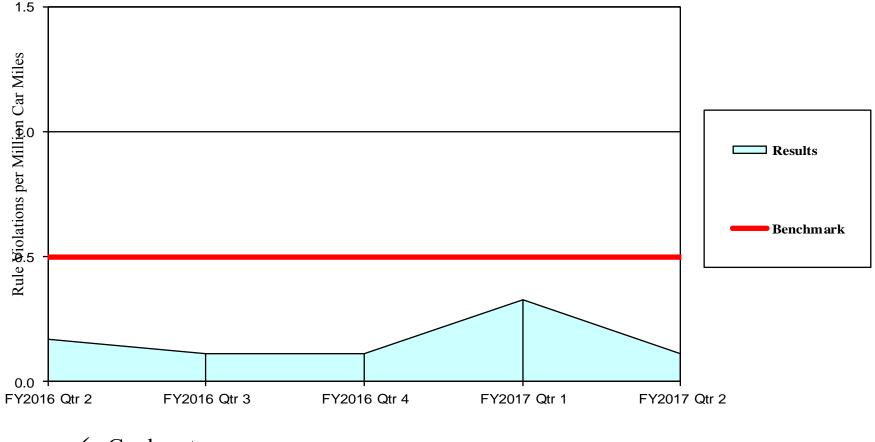


## Unscheduled Door Openings per Million Car Miles



✓ Goal met

# SERVICE : How are we doing? Operating Safety: Rule Violations per Million Car Miles





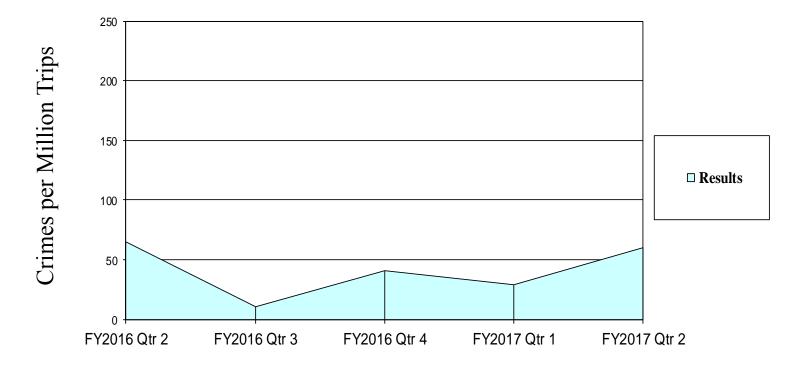
Starting FY17 Q2, the way BART Police Presence is measured was changed. The new questions are:

- Did you see BART Police on the Train? (Yes, No, Don't Know)
- Did you see BART Police Outside the Station? (Yes, No, Don't Know)
- Did you see BART Police in the Station? (Yes, No, Don't Know)

Overall Police Presence is also reported as are results for after 7:00 PM. Goals will be set after approximately a year of using the new measures.

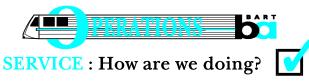
BART Police Presence		Avg. 10.9%
Rider saw Police on train	5.6%	
Rider saw Police outside the station	16.3%	
Rider saw Police in the station	11.1%	
Rider saw Police on train after 7:00PM	4.8%	
Rider saw Police outside the station after 7:00PM		
Rider Saw Police in the station after 7:00PM	11.4%	





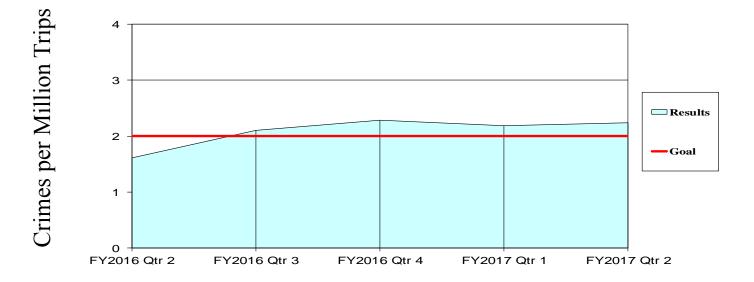
 Quality of Life incidents are up from the last quarter and down from the corresponding quarter of the prior fiscal year.

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



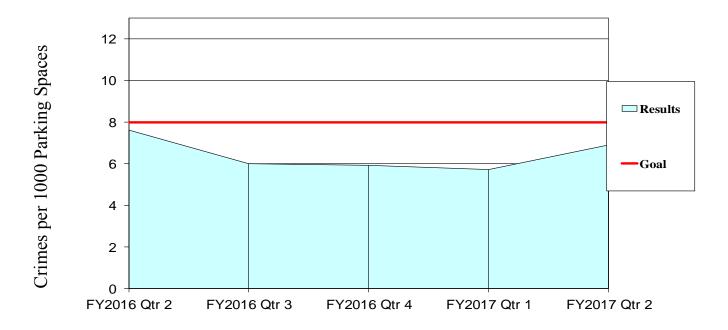
#### Crimes Against Persons

(Homicide, Rape, Robbery, and Aggravated Assault)



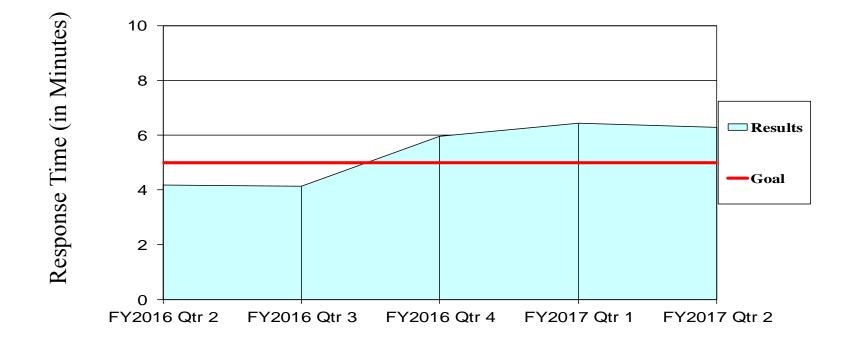
- ✓ Goal not met
- Crimes against persons are up from the last quarter, and up from the corresponding quarter of the prior fiscal year.





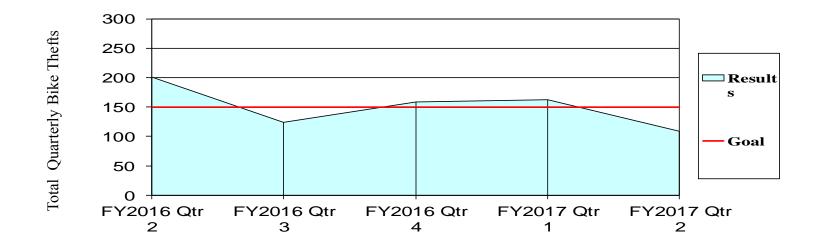
- ✓ Goal met
- ✓ The number of incidents per thousand parking spaces are up from last quarter and down from the corresponding quarter from the prior fiscal year.





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





- ✓ Goal met
- ✓ 109 bike thefts for current quarter, down 54 from last quarter and down 92 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.