

Quarterly Service Performance Review Third Quarter, FY 2016 January - March, 2016

Engineering & Operations Committee May 26, 2016

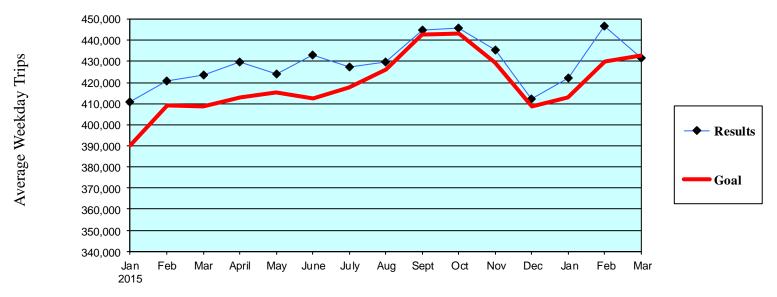


FY16 Third Quarter Overview...

- ✓ Boosted by Super Bowl 50, ridership increased with all time monthly weekday average record in February (446,650)
- ✓ March propulsion failure problems between North Concord and Pittsburg/Bay Point significantly impacted On-Time Performance
- ✓ Reliability: Car and Track met; Transportation, Train Control, Computer Control System and Traction Power not met
- ✓ Availability: Car, Fare Gates and Vendors, Station Elevators met; Escalators and Garage Elevators not met.
- ✓ Passenger Environment indicators: only Train Temperature met; 3 improved, 5 worse
- ✓ Complaints up in all categories



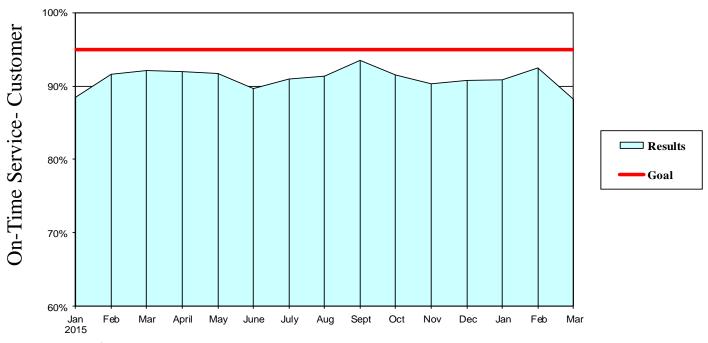
Customer Ridership



- ✓ Average weekday ridership (433,585) up 3.6% from same quarter last year
 - Core up 3.3%, SFO Extension up 5.4%
 - February was the highest ever (446,650) due to Super Bowl 50 festivities
- ✓ Saturday and Sunday up by 4.0% and down by 1.1%, respectively, over same quarter last year
 - #1 Saturday ridership (419,161) on 2/6/16 due to Super Bowl 50 festivities, Warriors game and Metallica concert
- ✓ Total trips for the quarter 1.3% above budget, year to date 0.2% below budget



On-Time Service - Customer



- ✓ 90.45%, 95.00% goal not met, down 0.40%
- ✓ Biggest delay events of the quarter:

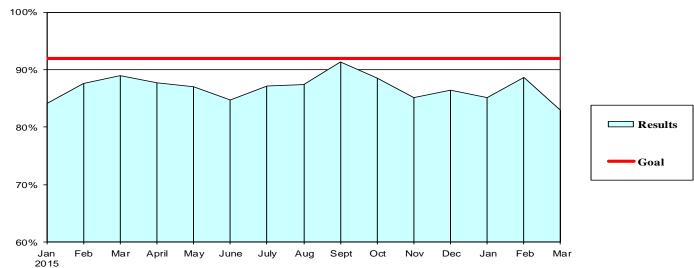
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JAN 06	Balboa Park	MUX (False Occupancy)	170 late trains
JAN 19	N. Berkeley	Train Struck Person On Trackway	127
MAR 18	T-Bay Tube	Track (Defective Rail)	107
MAR 07	24th Street	Atten. Console (EM Stop)	108
MAR 16	C-Line	3rd Rail Power (Power Surge)	98
JAN 05	Balboa Park	MUX (False Occupancy)	85
JAN 19	Montgomery	False Occupancy	65
FEB 19	19th St. I-Lk	Routing (Switch)	63
MAR 28	D.C. Turnbck	T.O. Procedure (Manual Movement)	60
JAN 14	Civic Center	Person On Trackway	57



SERVICE: How are we doing?

On-Time Service - Train

On-Time Service - Train

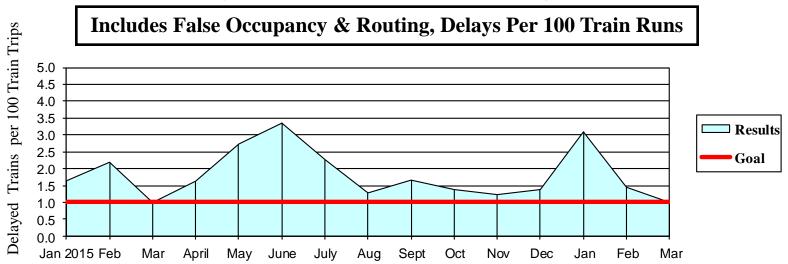


✓ 85.50%, 92.00% goal not met; down 1.25%

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Late t	rains by categ	ory:		6055	Total Late	Trains
1. Other: Miscellaneous (patron loading, passenger transfer,						
	congestion, multi-cause delay,					
	person or	r trackway,	weather)	1,616	late trains	26.7%
2. Tra	ain Control			997	late trains	16.5%
3. Po	lice			848	late trains	14.0%
4. Re	venue Vehicle			525	late trains	8.7%
5. Wa	ayside Mainter	nance Wor	k	344	late trains	5.7%
6. Op	erations			309	late trains	5.1%
7. Sic	ck passenger			285	late trains	4.7%
8. Va	ndalism			262	late trains	4.3%



Wayside Train Control System

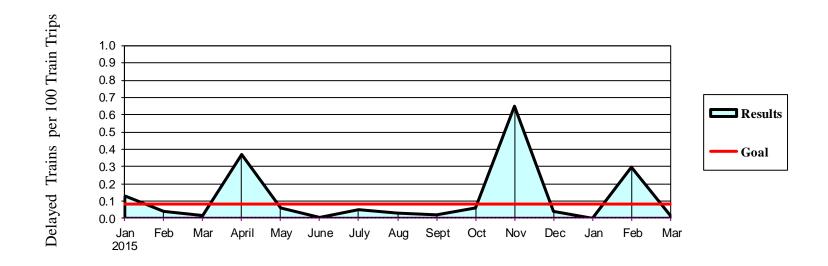


- ✓ 1.85, 1.00 goal not met
- ✓ Two major delays in January caused 36% of total quarterly late trains, otherwise improvement trend continues
- ✓ Major Delay Incidents:
- January 5-6, 255 Trains Delayed: During repair of multiple damaged Mux cable connectors on M80 C Mux at M85, crew caused an arrestor to short on a "data down" line. Required extensive troubleshooting to locate—two seconds to correct.
- January 19, 65 Trains Delayed: Intermittent False Occupancy (IFO) in M17 interlocking; multiple compounded delays prior to occurrence increased total trains delayed by IFO.



Computer Control System

Includes ICS computer & SORS, Delays per 100 train runs

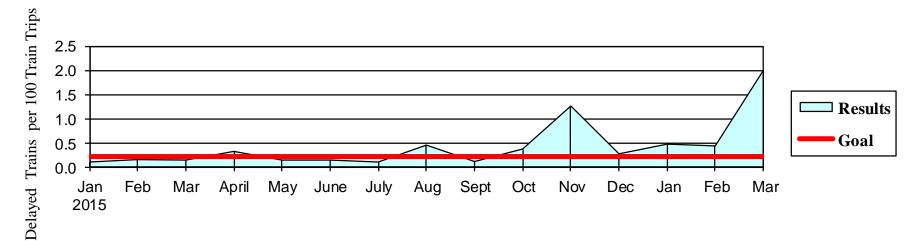


✓ Goal not met due to an ICS State 3 on Feb. 8, during a routine daily backup procedure. Procedures for this activity were reexamined, and then reviewed with Maintenance personnel.



Traction Power

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

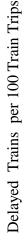


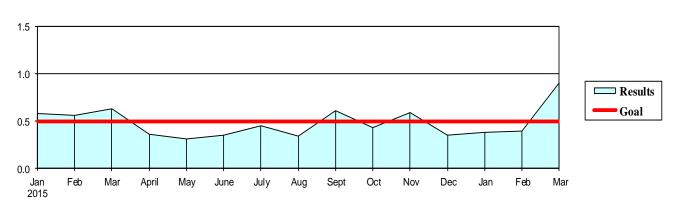
- ✓ Goal not met
- ✓ Major incidents:
 - Water intrusion in W Line tunnel caused 1kV cable failure
 - 34.5kV cable faulted on L Line
 - UPS failure near Pittsburg/Bay Point
 - 28 "Power Surge" incidents



Transportation

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



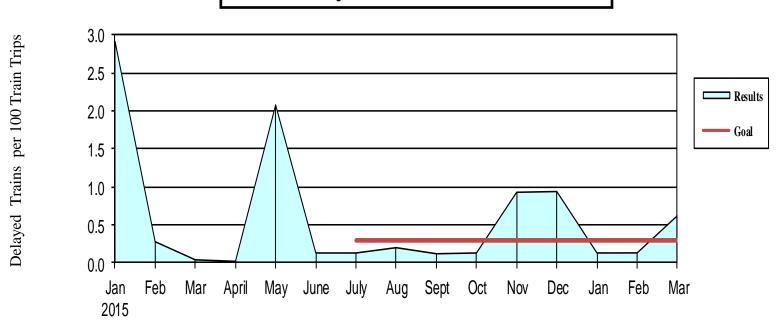


- \checkmark 0.56; goal not met
- ✓ Major incidents:
 - Switch correspondence issue in SFO Wye required manual routing by Train Controllers for much of January; resulted in a higher than normal amount of misroutes at the SFO Wye
 - Train Operator manual run order violation leaving Daly City transfer tracks



Track

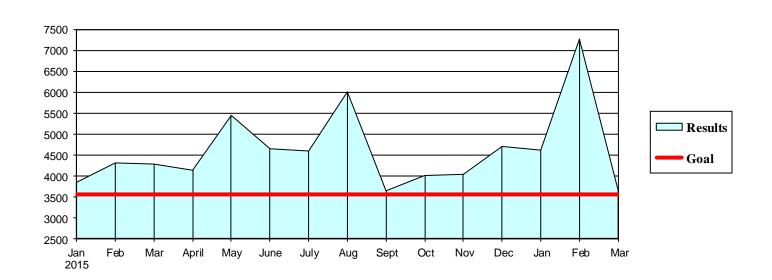
Includes Rail, Track Tie, Misalignment, Switch, Delays Per 100 Train Runs



- ✓ Goal met
- ✓ Biggest event of the quarter resulted from early detection of developing rail defect via ultrasonic rail testing

Mean Time Between Failures (Hours)

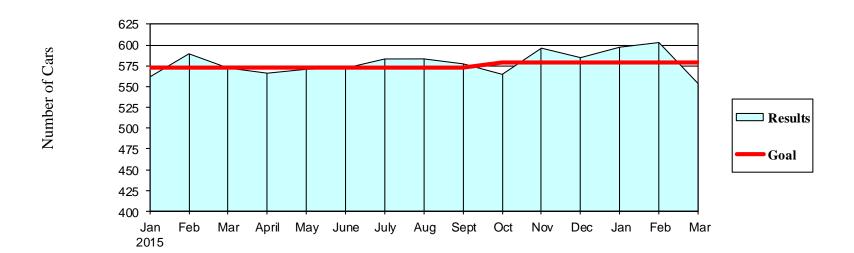
Car Equipment - Reliability



✓ Goal met – MTBF 4,760 hours



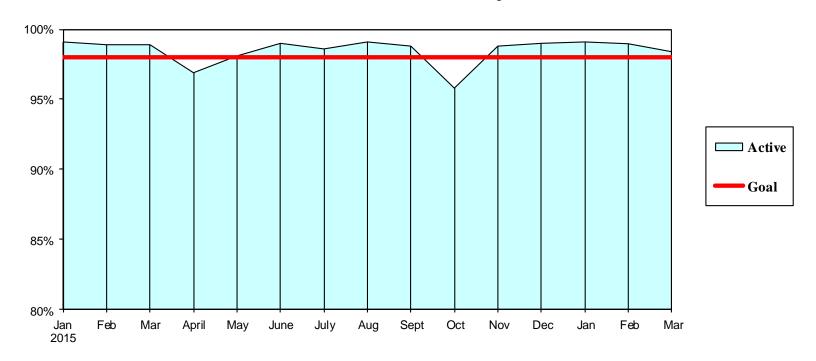
Car Equipment - Availability @ 0400 hours



- ✓ Goal Met 584 Actual vs. 579 Required
- ✓ Miscellaneous propulsion failures:
 - February: West Oakland
 - March: North Concord Pittsburg/Bay Point

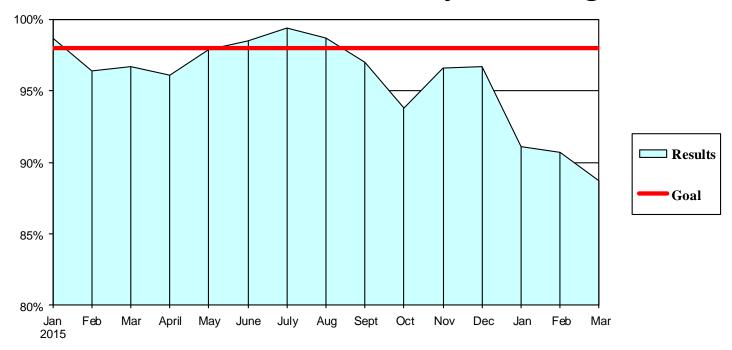


Elevator Availability - Stations





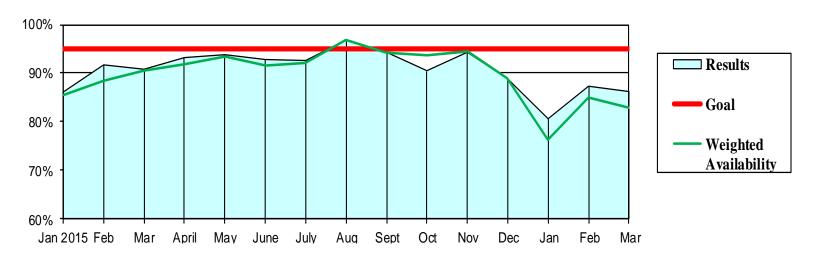
Elevator Availability - Garage



- ✓ 90.17% actual, 98% goal
- ✓ Controller drive failures at Millbrae
- ✓ Multiple, long term problems at Pleasant Hill turned over to contractor; also CCCTA allocated \$600K Measure J funds for modernization

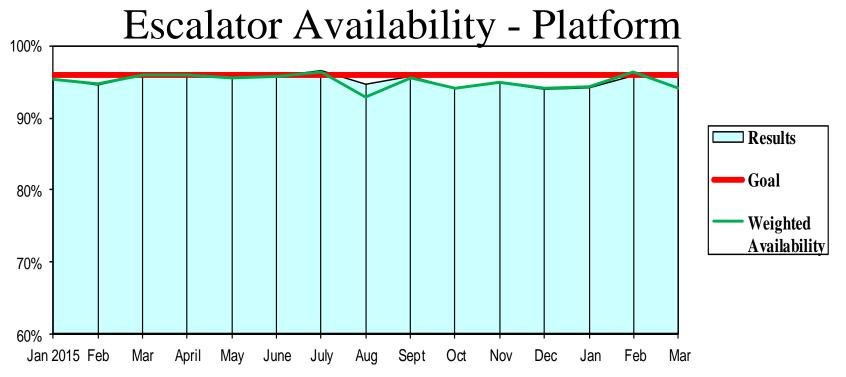


Escalator Availability - Street



- ✓ Actual 84.7%, goal 95%
- ✓ Seven heavy repairs on street units during this quarter.
- ✓ Material obsolescence on Mission Street units resulted in extended outages
- ✓ Staffing levels continue below budget
- ✓ Recovery:
 - Resolved issue with SEIU that will improve staffing
 - Several new hires plus more in the pipeline
 - Received material for the two long term outages on Mission Street
 - Projecting improvement in fourth quarter

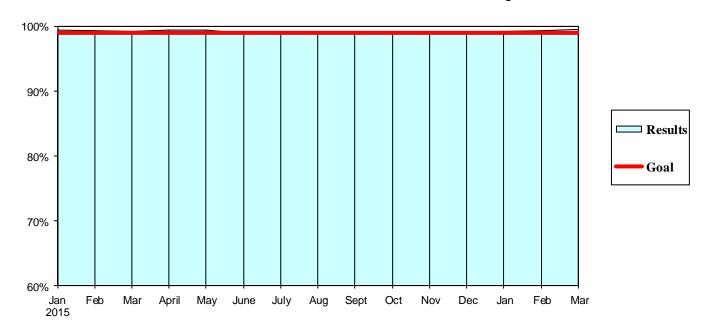




- ✓ 95.27%, goal just missed
- ✓ Improved over last quarter
- ✓ Six heavy repairs completed, one at Daly City in progress



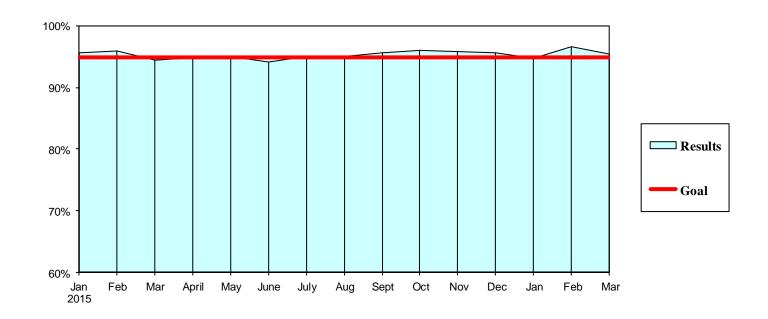
AFC Gate Availability



✓ 99.43 % - goal exceeded



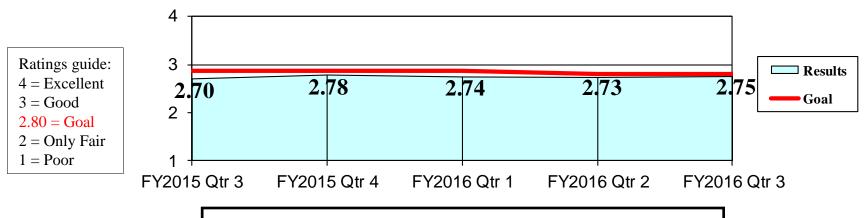
AFC Vendor Availability



- ✓ Ticket Vendor Availability 95.67% exceeded goal
- ✓ Add Fare Availability 98.8%
- ✓ Add Fare Parking Availability 98.8%
- ✓ Parking Validation Machines Availability 99.5%



Environment - Outside Stations



Composite rating of:

Walkways & Entry Plaza Cleanliness (50%) 2.65 BART Parking Lot Cleanliness (25%) 2.98 Appearance of BART Landscaping (25%) 2.72

- ✓ Goal not met but improved
- ✓ Landscaping sub-goal met
- ✓ Cleanliness ratings of either Excellent or Good:

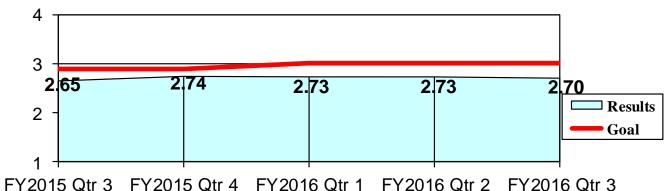
Walkways/Entry Plazas: 61.5% Parking Lots: 76.9%

Landscaping Appearance: 64.7%



Environment - Inside Stations





Composite rating for Cleanliness of:				
Station Platform (60%)	2.85			
Other Station Areas (20%)	2.66			
Restrooms (10%)	2.20			
Elevator Cleanliness (10%)	2.42			

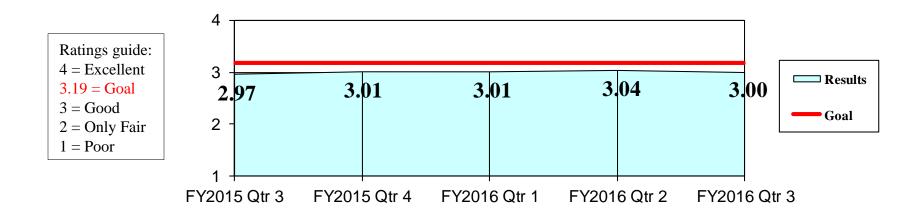
- ✓ Goal not met, all four sub-categories down slightly
- ✓ Cleanliness ratings of either Excellent or Good:

Station Platform: 72.1% Other Station Areas: 61.0%

Restrooms: 40.3% Elevators: 49.4%



Station Vandalism

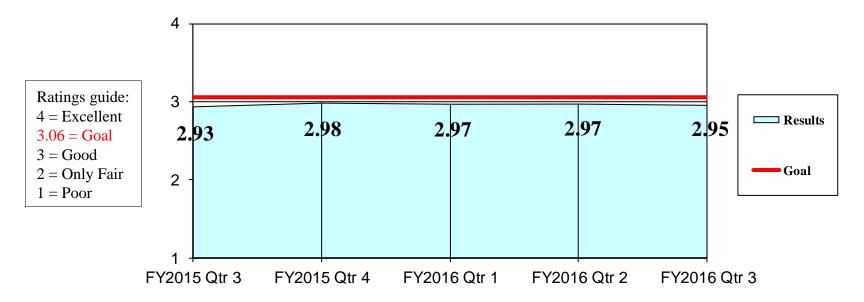


Station Kept Free of Graffiti

- ✓ Goal not met
- ✓ 77.7% of those surveyed ranked this category as either Excellent or Good



Station Services



Composite rating of:
Station Agent Availability (65%)
2.92
Brochures Availability (35%)
3.02

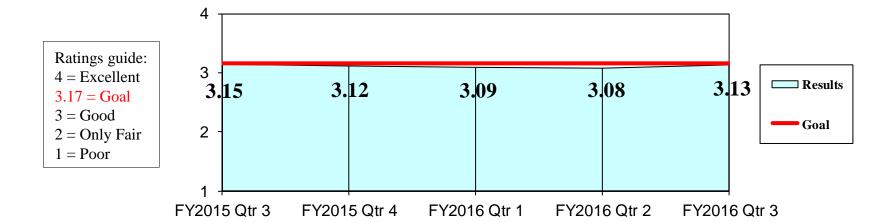
- ✓ Goal not met
- ✓ Availability ratings of either Excellent or Good:

Station Agents: 74.9% Brochures: 79.0%



SERVICE: How are we doing?

Train P.A. Announcements



Composite rating of:				
P.A. Arrival Announcements (33%)	3.10			
P.A. Transfer Announcements (33%)	3.07			
P.A. Destination Announcements (33%)	3.24			

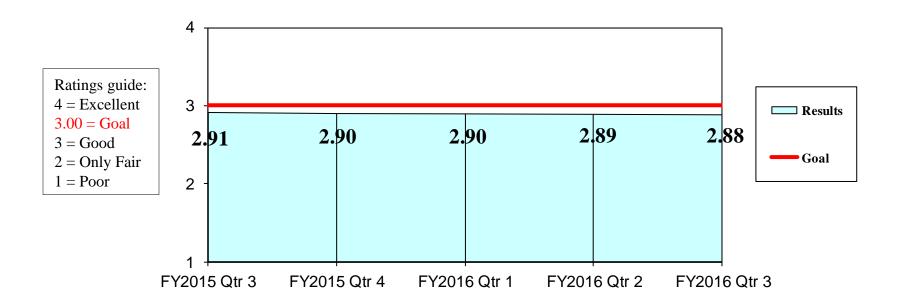
- ✓ Goal not met but improved performance
- ✓ Announcement ratings of either Excellent or Good:

Arrivals: 80.2% Transfers: 79.0%

Destinations: 85.1%



Train Exterior Appearance

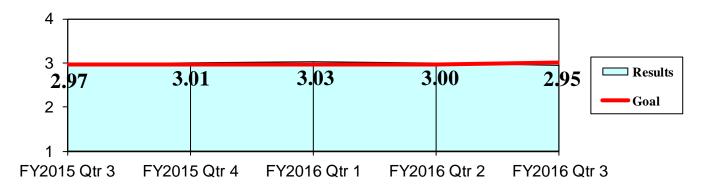


- ✓ Goal not met
- ✓ 76.0% of those surveyed ranked this category as either Excellent or Good



Train Interior Cleanliness





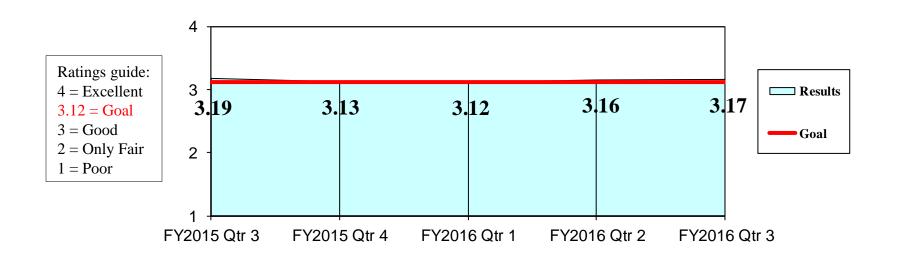
Composite rating of: Train interior cleanliness (60%) Train interior kept free of graffiti (40%) 3.33

- ✓ Score down, below goal for first time in a year
- ✓ Train Interior ratings of either Excellent or Good:

Cleanliness: 63.5% Graffiti-free: 90.7%



Train Temperature



Comfortable Temperature Onboard Train

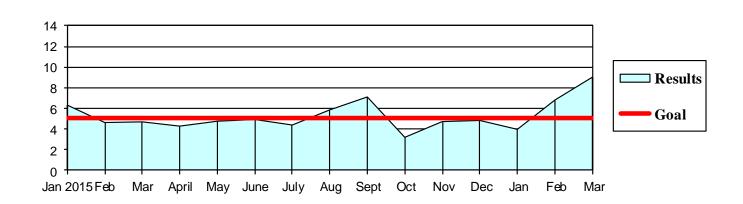
- ✓ Goal met
- ✓ 85.7% of those surveyed ranked this category as either Excellent or Good



Customer Complaints

Complaints Per 100,000 Customers

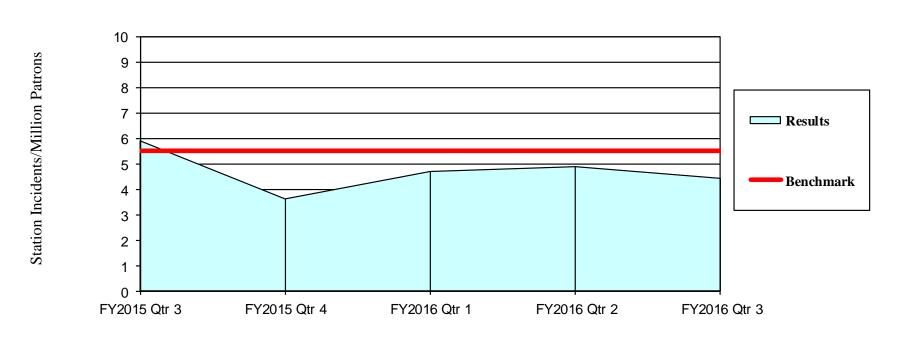




- ✓ 6.68, 5.07 goal not met
- ✓ Total complaints received during this period increased 861 (65.4%) from last quarter, up 605 (38.5%) when compared with FY 15, third quarter.
- ✓ Complaint totals recorded increase in all categories.
- ✓ "Compliments" are up with 140 compared to 90 last quarter (one year ago these numbered 100).

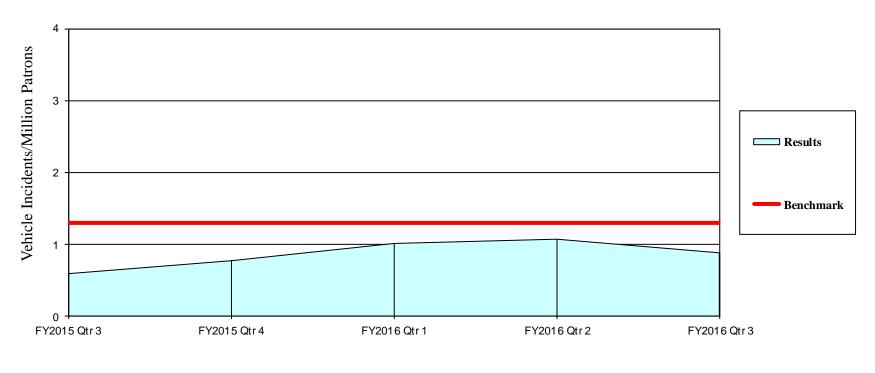


Patron Safety: Station Incidents per Million Patrons



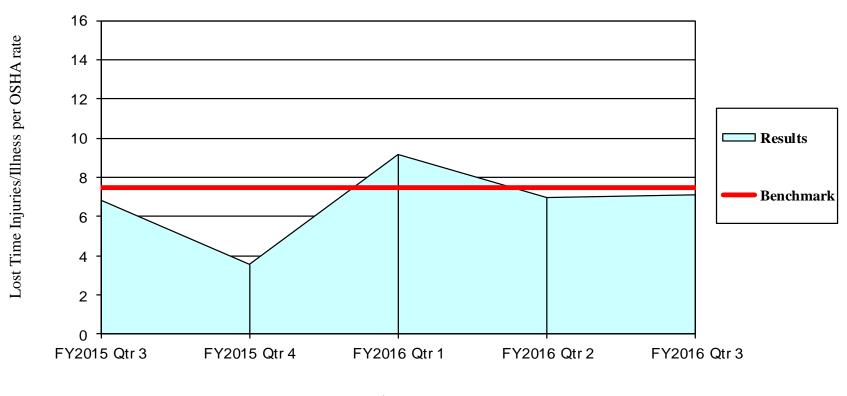


Patron Safety Vehicle Incidents per Million Patrons





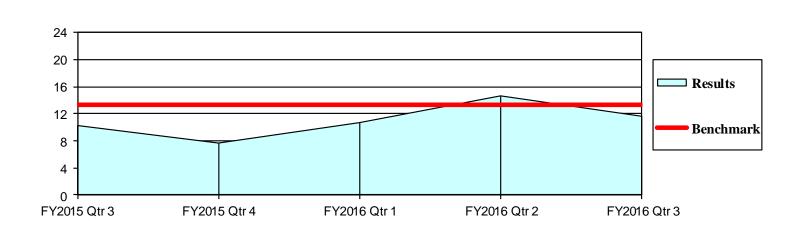
Employee Safety: Lost Time Injuries/Illnesses per OSHA Incidence Rate





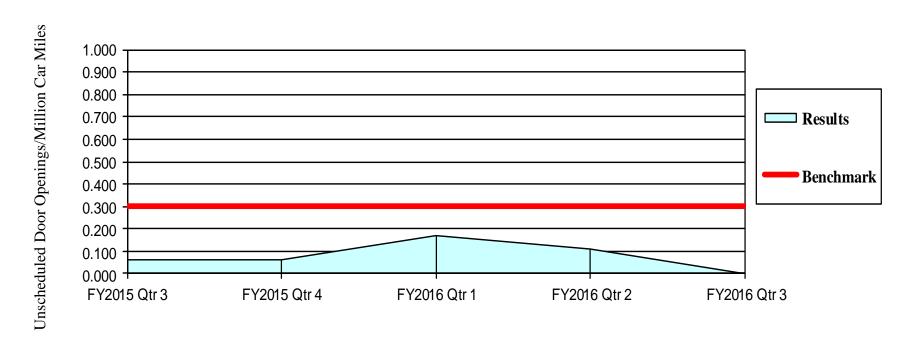
Employee Safety: OSHA-Recordable Injuries/Illnesses per OSHA Incidence Rate

OSHA Recordable Injuries/Illnesses/OSHA rate



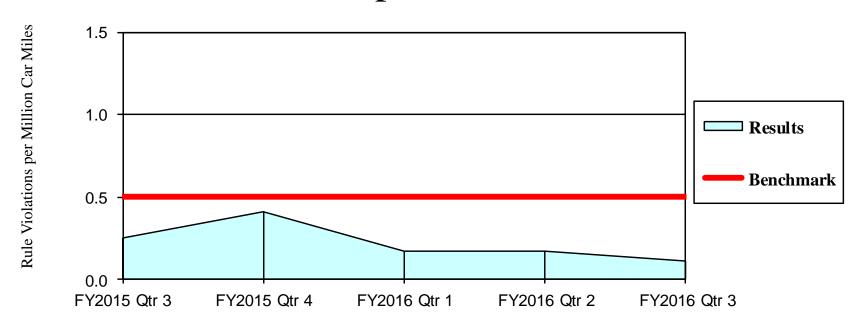


Operating Safety: Unscheduled Door Openings per Million Car Miles



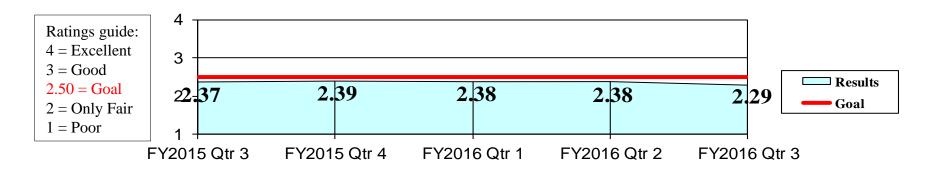


Operating Safety: Rule Violations per Million Car Miles





BART Police Presence



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

Parking Lots and Garages (33%)

Trains (33%)

2.21

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

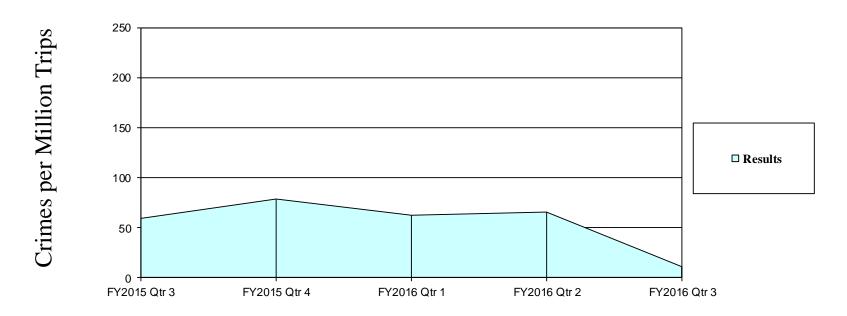
Stations: 42.7% Parking Lots/Garages: 48.6%

Trains: 39.7%



SERVICE: How are we doing?

Quality of Life*

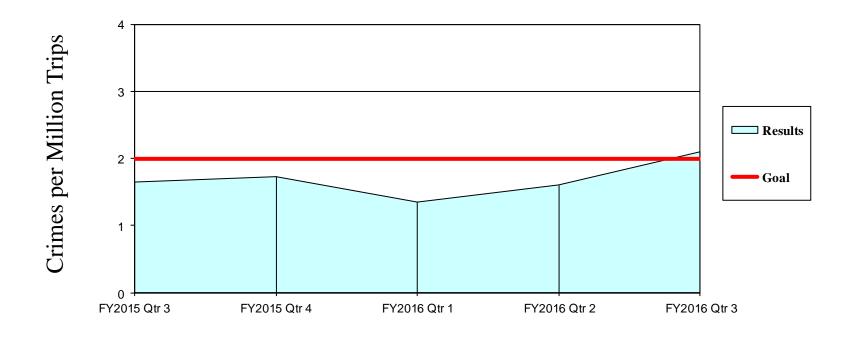


✓ Quality of Life incidents are down from the last quarter, and down from the corresponding quarter of the prior fiscal year.

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



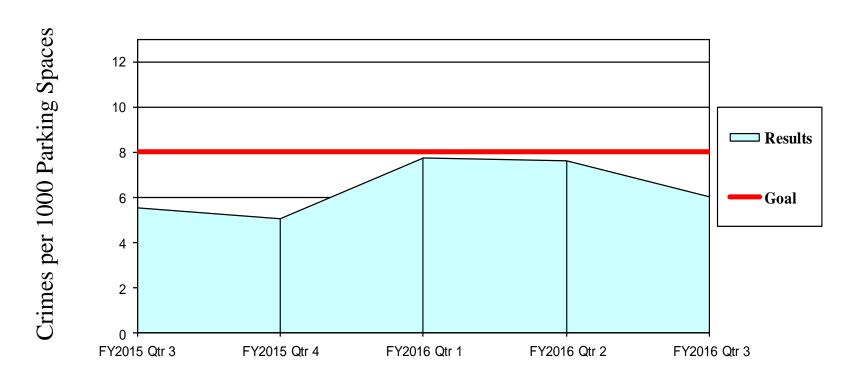
Crimes Against Persons (Homicide, Rape, Robbery, and Aggravated Assault)



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



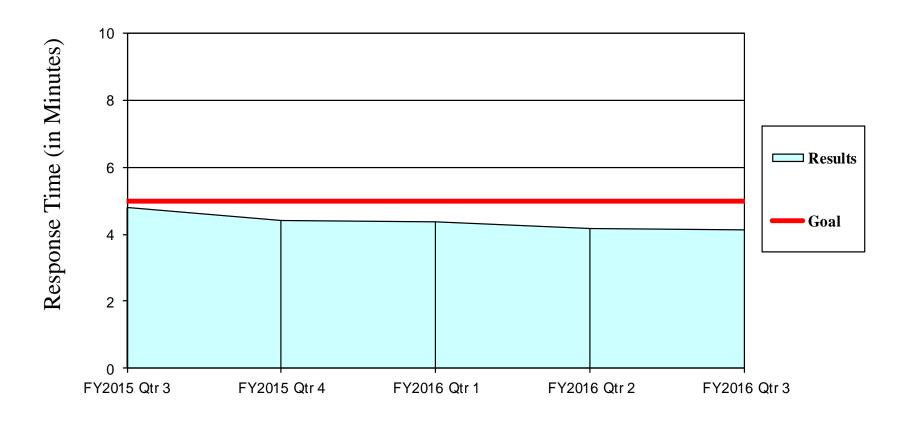
Auto Theft and Burglary



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

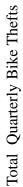


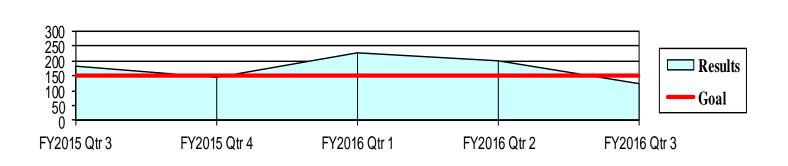
Average Emergency Response Time



✓ The Average Emergency Response Time goal was met for the quarter.

Bike Theft





- ✓ Goal met
- ✓ 124 bike thefts for current quarter, down 77 from last quarter and down 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.