

SFMTAMunicipal Transportation Agency

LIGHT RAIL PERFORMANCE IMPROVEMENT STRATEGY

06 | 04 | 2013 SAN FRANCISCO, CALIFORNIA

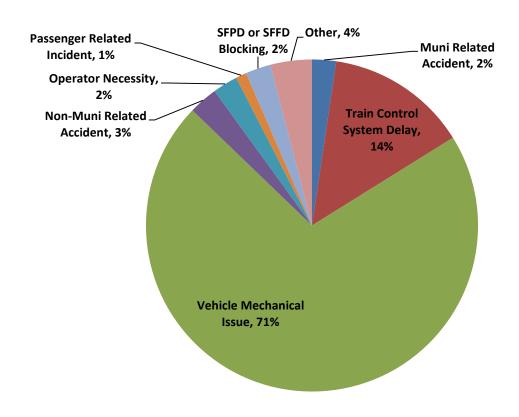




Status of Light Rail Service

- Overall light rail ontime performance is under 50% in May
- One in five trips has a gap of 5 or more minutes above scheduled headway
- Peak service at capacity in subway
- Incidents in subway delaying all lines

Rail Delays by Type







Factors Affecting Performance

Vehicle Performance

- On average, each train breaks down in service every 25-30 days
- Lower availability means more one car trains and more crowding

Infrastructure Performance

- Overhead lines
- Track condition has led to speed restrictions
- Major bottlenecks at 4th & King, West Portal,
 Church & Duboce, & Embarcadero
- Signal priority system







Factors Affecting Performance

Service management

- Current technology does not allow for efficient service management
- Limited supervision resources

Subway capacity

Service limited by subway throughput capabilities

Schedules

- Not updated to current operating conditions
- Mixed flow traffic operations with complex subway and manual running interface at subway portals





Vehicle Performance

- Rehabilitation program completed on 1/3 of fleet
- Adjusting Breda work schedule to increase vehicle availability

Infrastructure Performance

- Independent review of overhead lines department
- Train subway entries under close scrutiny
- Signal priority repaired along Third Street and reassessing signal timing on Third Street
- Track replacement projects in the pipeline which will improve travel speeds and safety





Service Management

- Standby trains added to fill in service gaps as needed (availability permitting)
- Additional mechanics assigned to subway to expedite delays
- Troubleshooting program being rolled out to supervisors and operators to reduce delays
- Reviewing service recovery techniques to improve customer service
- Hiring additional rail supervision





Schedules

- Updated schedules planned for implementation on July 1
- Use of new fallback operation at Embarcadero expected to improve throughput

Bottlenecks

- Fourth/King transit priority implementation in July
- Traffic control support assigned to West Portal during PM peak
- Fallback expected to improve Embarcadero
- Reassessing manual stop locations with Safety





Technology

- Double berthing (testing in July)
- Reviewing opportunities to use advanced train control system on Embarcadero
- Assessing use of three car trains in subway to improve capacity

Customer Communications

- More frequent service updates on Twitter and NextBus signs
- Subway audio and sign upgrades within the next
 12 months





Improvements will help

- Improvements will provide more reliable service and better communications with customers
- Look forward to demonstrating our success