General Manager and Deputy General Manager
Remarks
Fiscal and Management Control Board

June 24, 2019
Red Line Derailment Status Update

• Investigation into root cause of derailment remains underway:
  • Operator error, speed, foul play, and track infrastructure dispelled as probable causes
  • Incident vehicle components sent to lab for metallurgical analysis
  • Completed a rigorous inspection of all related components of all vehicles of the same type involved in the derailment

• Major signal work continues concentrated in four areas:
  • Broadway-JFK, JFK-Ashmont, JFK-North Quincy, JFK-Cabot
  • Signal restoration expected to continue through summer
  • Incremental progress with signal restoration will result in service improvements

• Future state: Red/Orange Line signal upgrades to digital audio frequency track circuits will replace existing analog technology
  • Currently working with contractor to re-sequence project to start in Columbia Junction

• Progress in repairs to track, third rail, and power has brought service up to 10 trains per hour, resulting in six-minute headways between JFK/UMass and Alewife during peak
On a \textit{typical weekday}, the T operates \textbf{13-14 trains per hour} during peak service

- \textbf{4:30 minute headways} in the trunk and \textbf{9 minute headways} on each branch
  - \textbf{Average trip time} from Braintree to South Station is \textbf{30 minutes}

- \textbf{From June 12-14}, due to damaged infrastructure, the T operated only \textbf{6 trains per hour} during peak and \textbf{required a transfer at JFK} for Braintree passengers
  - Headways inconsistent and \textbf{service gaps of 15+ minutes}
  - \textbf{Average trip time} from Braintree to South Station was \textbf{55+ minutes}

- Last week \textbf{(June 17-21)}, after conducting repair work at Columbia Junction, the T was able to improve to \textbf{10-11 trains per hour} and provide a \textbf{one-seat ride for Braintree passengers}
  - Headways of \textbf{5:45 minutes} in trunk and \textbf{11:30 minutes} on branches
  - \textbf{Average trip time} from Braintree to South Station was \textbf{40 minutes}

- \textbf{Going forward}, service will continue to improve as team repairs the infrastructure and makes other operational improvements
Three Key Signal Bungalows Damaged
Red Line Train Control Outage Area

Manual Operation in place:

- Braintree Branch: Broadway to North Quincy
- Ashmont Branch: Broadway to Fields Corner
- Requires approximately 50 personnel in the field per day
Columbia Junction-Red Line

- Track Circuits control speed, spacing, and switch movement
- 99 track circuits in affected area (Columbia Junction)
Front and Back of Signal Racks

Front

Back
Thank You

To our employees and contractors running the Red Line and working on repairs