



**Massachusetts Bay
Transportation Authority**

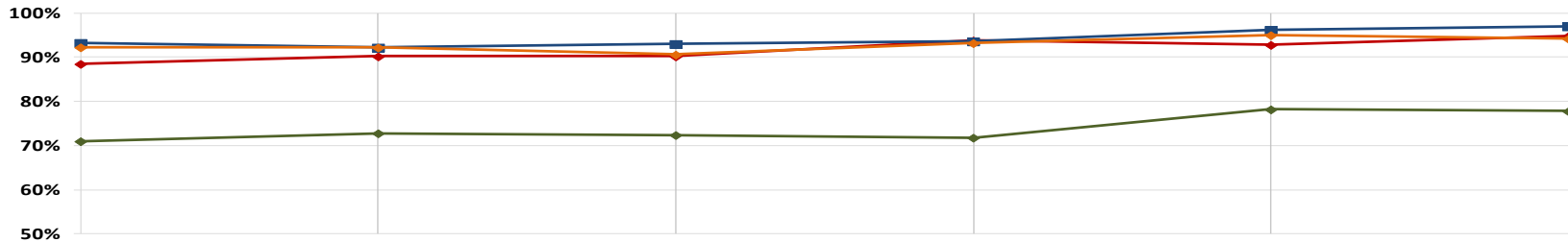
COO Remarks

January 9, 2017

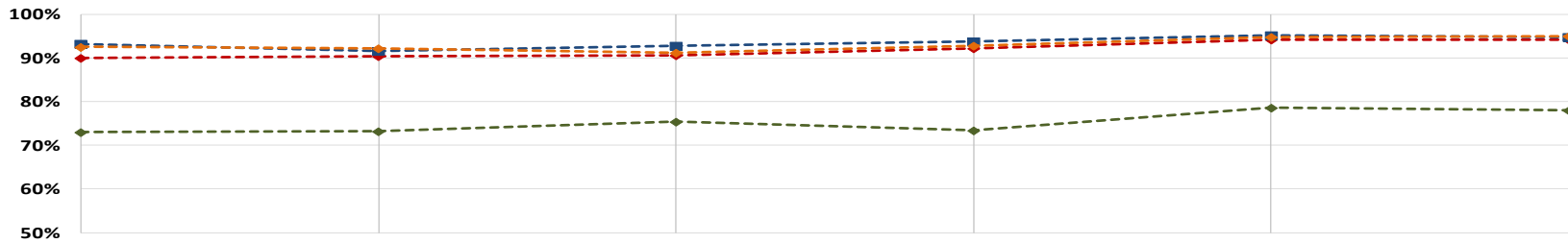


Weekly Reliability

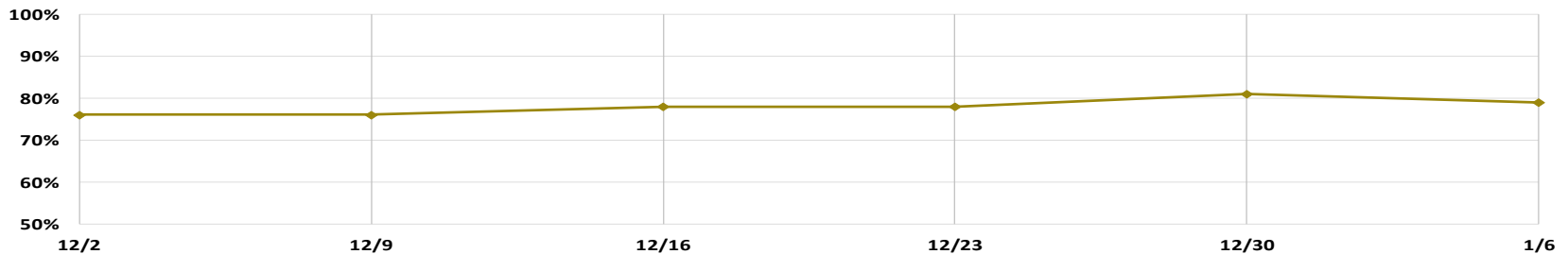
Rail Reliability: Peak



Rail Reliability: Offpeak



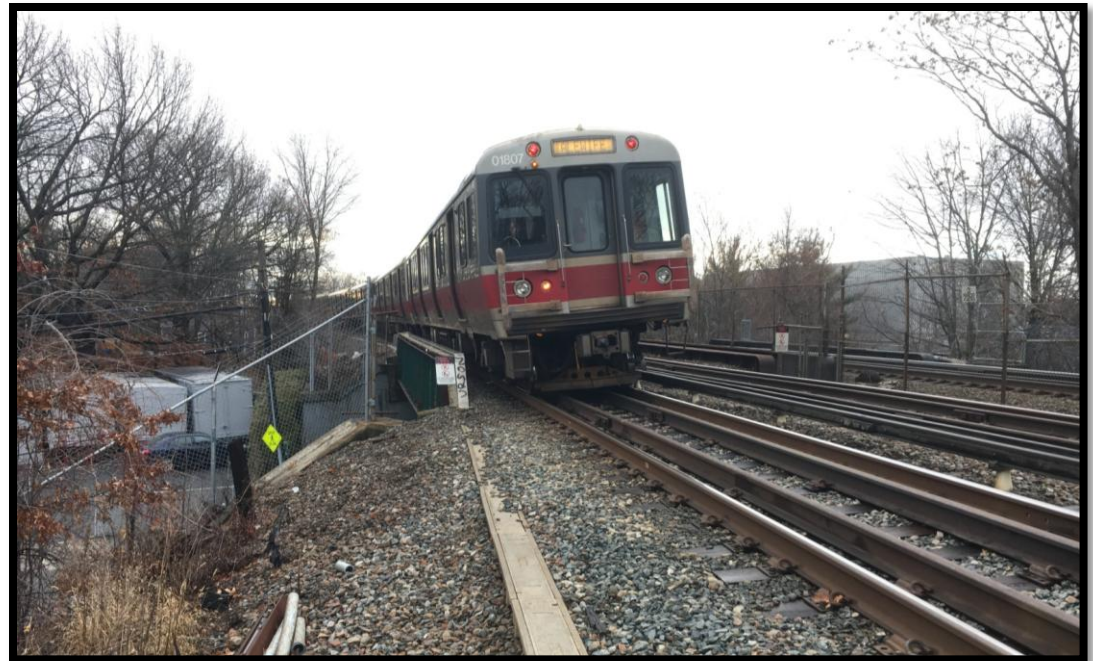
Bus Headway Adherence





Red Line State of Good Repair Improvements

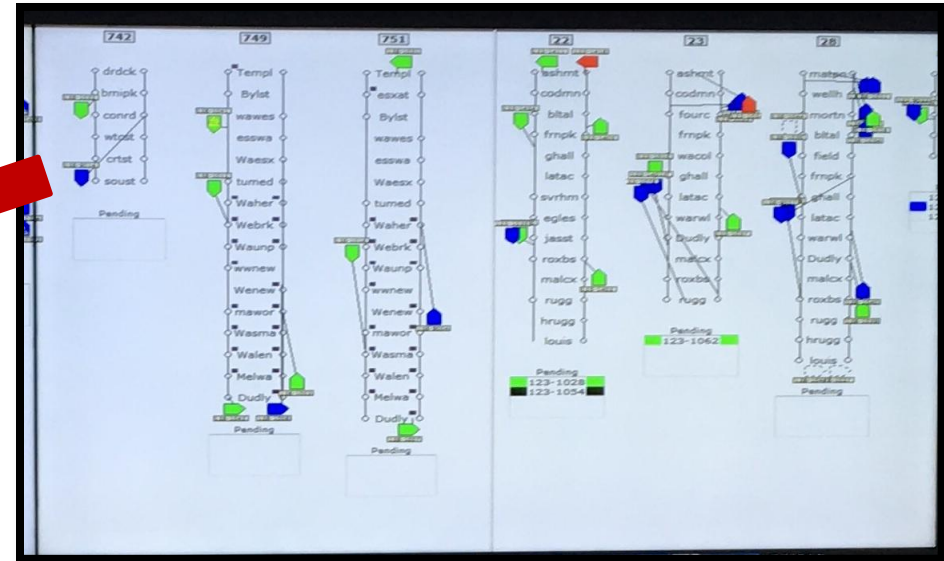
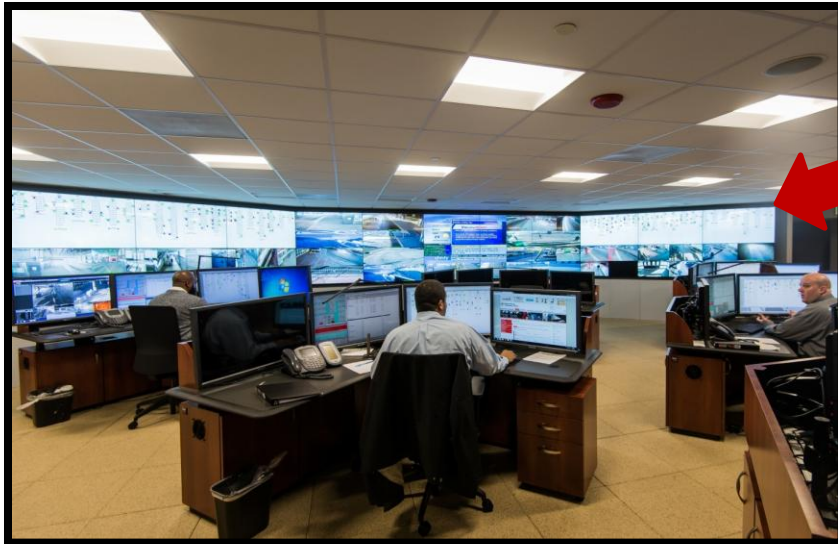
- Track Replacement over six bridges between North Quincy and JFK
- Long standing 25 mph speed restrictions lifted
- One minute and 20 second trip time improvement.



Harrison Curve-Northbound track passing over the Park St. bridge



Bus Control Center Renovations



- One million dollar capital program
- 22 Screens displaying video and bus route status
- New ergonomic dispatcher consoles, screens and chairs



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Red Line/Orange Line Vehicle Procurement

Project Update

January 9, 2017



Project Overview

- Contract RFP CAP No.27-10 404 heavy rail cars: 152 for Orange Line and 252 for Red Line (including 58 Red Line option cars and 120 Red Line #3 car replacement)
- Manufacturer – CRRC MA Corporation
- Engineering and Inspection Services Support – STV Inc.
- Advisory Council Oversight – CH2MHill

Schedule

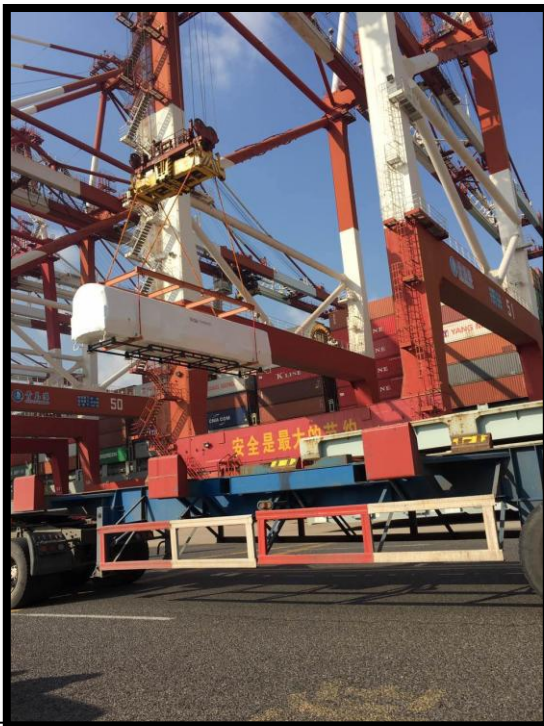
- Notice to Proceed (NTP): Dec. 18, 2014
 - Orange Line Pilot Train delivery: Dec. 2017
 - Orange Line Production Car delivery: Dec. 2018
 - Estimated Service Date of 1st Orange Line Car: Early 2019
 - Red Line Pilot Train delivery: Mar. 2019
 - Red Line Production Car delivery: Nov. 2019
 - Estimated Service Date of 1st Red Line Car: Early 2020
 - Red Line Production Car delivery (End): Sep. 2023
-
- Delivery rate: 4 cars per month for each line
 - All 404 cars delivered by 9/2023





Project Status

- Completing Final Design
- Mock-up has shipped
- Structural testing (static) of test carshell completed
- Qualification Testing and First Article Inspections of components has started

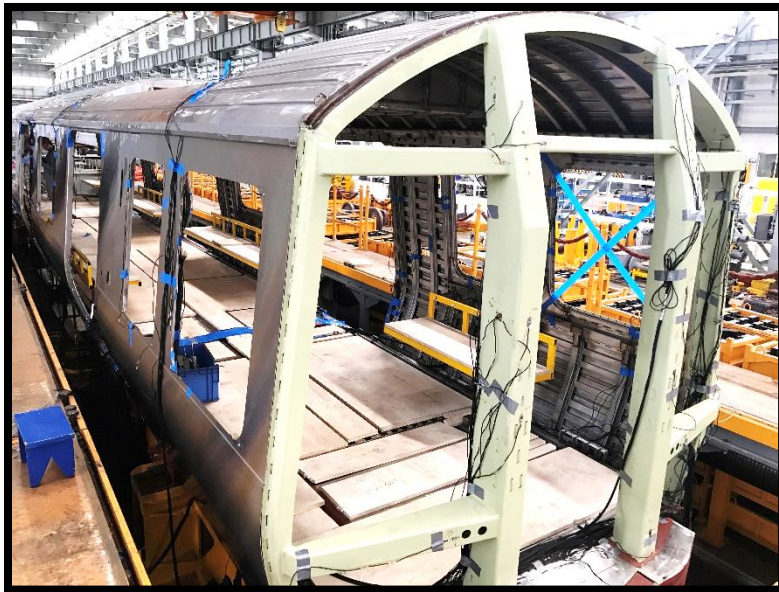


Loading of Mock-up



Project Status – Next Steps

- Closeout of Final Design: Open Items and Documentation (March 2017)
- Delivery of Mock-up to MBTA (end of January / early February 2017)
- Qualification Testing and FAI of subsystems (through September 2017)
- Carshell plastic-elastic testing (January 2017)



Instrumenting of test carshell



Test carshell in static test fixture