



**Massachusetts Bay
Transportation Authority**

DGM Remarks

Fiscal & Management Control Board

October 29, 2018



Slippery Rail: New Rail Wash Trains

- Fall leaves on tracks causes a phenomenon called slippery rail
- Extreme conditions can cause extensive delays
- This season we have a new tool to minimize the impact on our commuter rail system
 - Two new high efficiency rail wash trains
 - Designed and built in-house





Slippery Rail: New Rail Wash Trains

Difference between old and new wash train

- More efficient use of water
 - 50% lower flow rate (25 vs. 50 gpm)
 - 60% higher cleaning pressure (24 vs 15 kpsi)
- Can clean 2-3x more rail (100+ miles)
- 75% increase in travel speed (40mph)
- Deployed midday and evenings
 - 3 lines per evening
- Priority based scheduling and deployment
 - Prior years data used to develop preliminary schedule
 - Daily monitoring of system performance
 - GPS tracking on each unit

