



**Massachusetts Bay
Transportation Authority**

Safety Updates

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MBTA Board of Directors Meeting

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Discussion Topics

- Recent Incidents and Corrective Actions
- Safety Performance Indicators and Trend Analysis

Recent Incidents and Corrective Actions



Safety Performance Indicators and Trend Analysis Highlights

September 2024

Bus

- Continued success in meeting Bus System Reliability performance targets, 5th month in a row.
- Have exceeded annual performance target totals in Major Safety Events and NTD Reportable Injuries with three months to go.

Heavy and Light Rail

- Heavy Rail has met its Reportable Injury targets for the 2nd month in a row/of the year.
- Continued success in Heavy Rail system reliability performance, monthly targets have been met each month YTD.
- 11 NTD Major Safety Events for the month of September, 10 of those being minor maintenance vehicle derailments

Commuter Rail

- Accident frequency ratio stands at 1.9, indicating better performance compared to the year-to-date ratio of 2.1.

Questions?

Appendix

Safety Performance Indicators and Trend Analysis - *Bus*

- There were **16** Major Safety Events for Bus in September, more than doubling the monthly performance target of **7.33 or below**.
- There were **31** NTD Reportable Injuries for Bus in September (a slight decrease from August's **35**), though exceeding the monthly performance target of **21 or below**.
- There were **20** Customer Injuries requiring transport for Bus in September. The Bus Customer Injuries Rate (per million passenger trips) in September was **2.44**, meeting the monthly performance target rate of **2.55 or below**.
- There were **141** Bus Collisions in September yielding a Bus Collisions Rate (per million revenue miles) of **84.07**, exceeding the monthly performance target rate of **60.08 or below**.
- In September, *Bus Mean Miles Between Mechanical Failures* performance was **37,340**, meeting the monthly performance target rate of **28,500 or above**.





Safety Performance Indicators and Trend Analysis – *Heavy Rail*

- There were **11** Major Safety Events for Heavy Rail in September, exceeding the monthly performance target of **1.92 or below by more than 5 times**.
- There were **11** NTD Reportable Injuries for Heavy Rail in September, meeting the monthly performance target of **14.17 or below**.
- There were **2** Customer Injuries for Blue Line, **7** Customer Injuries for Orange, and only **1** Customer Injury for Red (24-day Diversion contributes to outlying performance) in September.
- There were no Blue or Orange Line Collisions in September. The Red Line was in **one** collision with person in the diversion area, no injuries, medical declined.
- *Heavy Rail Mean Miles Between Failures* performance in September was **57,093**, meeting the monthly performance target rate of **49,000 or above**.
- There were **10** Maintenance Derailments for Heavy Rail in September, all occurring during the Red Line Diversion, causing the monthly performance to exceed the target of **0.41 or below**. However, all other derailment performance targets (Main Line Rev/Non-Rev, Yard) were met.



Safety Performance Indicators and Trend Analysis – *Light Rail*

- There were **5** Major Safety Events for Light Rail in September, exceeding the monthly performance target of **2.25 or below**.
- There were **7** NTD Reportable Injuries for Light Rail in September, exceeding the monthly performance target of **6.58 or below**.
- There were **6** Customer Injuries requiring transport for Green Line in September. The Green Line Customer Injuries Rate (per million passenger trips) was **1.89** in September, meeting the monthly performance target rate of **2.41 or below**.
- There were **4** Green Line Collisions in September, resulting in a collision rate **7.19** (per million revenue miles) in September, exceeding the monthly performance target rate of **2.86 or below**.
- *Light Rail Mean Miles Between Mechanical Failures* performance for September was **7,532**, falling below the monthly performance target rate of **7,900 or above**.
- There were **0** Light Rail Derailments in September.



Safety Performance Indicators Trend Analysis *Commuter Rail and Ferry*

- Commuter Rail's September accident frequency ratio stands at **1.9**, indicating better performance compared to the year-to-date ratio of **2.1**.
- The Commuter Rail reported **4** Reportable and **3** Non-Reportable employee injuries, with **0** passenger injuries recorded.
- There was **1** Commuter Rail yard derailment.
- There were **2** reportable rule violations on the Commuter Rail.
- Ferry had **1** Reportable and **1** Non-Reportable employee injury, with **2** passenger injuries reported.