



**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 March 2024

Bus

- A slight increase was reported for *Bus NTD Reportable Safety Events* and *Bus NTD Reportable Injuries* when compared to previously identified performance targets.
- Target for MBTA Bus NTD Safety Events has not been met for several months.
- There was a decline in the performance target for *Bus Mean Miles Between Mechanical Failures*.

Heavy and Light Rail

- MBTA fell slightly short of meeting the performance target for *Heavy Rail NTD Reportable Safety Events*.
- Continued success reported in system reliability for *Heavy Rail Mean Miles Between Mechanical Failures* performance.
- Significant progress was made toward performance target for *NTD Reportable Injuries*.
- Customer Injury rate (customer injuries per one million passenger trips) exceeded the monthly performance target on Blue Line and Orange Lines.
 - The rate fell within the monthly performance target on Red Line.

Questions?

Appendix

Safety Performance Indicators and Trend Analysis - *Bus*

- There were **8** *Bus NTD Reportable Safety Events* in March, exceeding the monthly performance target of 7.33.
- There were **24** *Bus NTD Reportable Injuries* (this includes both customer and employee transported injuries,) exceeding the monthly target of **21**.
- In March, there was a decline in *Bus Mean Miles Between Mechanical Failures*, performance was **22,826** compared to the target of **28,500**.





Safety Performance Indicators and Trend Analysis – *Heavy Rail*

- There were **3** *Heavy Rail NTD Reportable Safety Events* in March, falling short of our target (**1.92**) and outside MBTA's trend.
- There were only **16** *NTD Reportable Injuries* on Heavy Rail, showing significant progress towards the performance target of **14** compared to 20 in February.
- There was **1** *Non-revenue derailment* on heavy rail in March on the **Red Line**.
- The **Blue Line** had a Customer Injury rate of **2.38** customer injuries per one million passenger trips, which exceeded the monthly performance target of **1.02**.
- The **Orange Line** had a Customer Injury rate of **2.72** *customer injuries per one million passenger trips*, exceeding the monthly performance target of **2.12**.
- The **Red Line** had a Customer Injury rate of **1.63** *customer injuries per one million passenger trips*, falling within the monthly performance target of **2.45**.
- Continued success in system reliability for Heavy Rail. *Heavy Rail Mean Miles Between Mechanical Failures* performance in March was **58,117** compared to the target of **49,000**.



Safety Performance Indicators and Trend Analysis – *Light Rail*

- There were **3** *Light Rail NTD Reportable Safety Events* in March, exceeding the monthly performance target of **2.25** events or fewer.
- There were **3** *Light Rail NTD Reportable Injuries*, continuing a **notable trend improvement** in 2024 meeting the monthly performance target of **6.58** 8 of the past 13 months.
- There was **1** revenue *derailment* on light rail.
- There was a drop in system reliability for Light Rail. *Light Rail Mean Miles Between Mechanical Failures* performance in March was **6,827** compared to the target of **7,900**.
- Improvement in *Reportable Smoke/Fire Incidents* on the Light Rail, with only **2** reportable fire/smoke incidents in March compared to **5** in February.

Safety Performance Indicators and Trend Analysis

Commuter Rail and Ferry

- Commuter Rail's March accident frequency ratio stands at **0.4**, indicating better performance compared to the year-to-date ratio of **3.4**.
- The Commuter Rail reported **1** Reportable and **2** Non-Reportable employee injuries, with **0** passenger injuries recorded.
- There were **0** Commuter Rail derailments reported in March.
- There was **1** reportable rule violation on the Commuter Rail in March 2024.
- Ferry had **0** Reportable and **0** Non-Reportable employee injuries, with **2** passenger injuries reported.

↑ EMERGENCY ENTRY ↑

