

Safety Updates

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MBTA Board of Directors Meeting
October 24, 2024

Discussion Topics

- Recent Incidents and Corrective Actions
- Safety Performance Indicators and Trend Analysis
- 2024 Women in Safety Conference



Recent Incidents and Corrective Actions

Safety Performance Indicators and Trend Analysis Highlights August 2024

Heavy and Light Rail

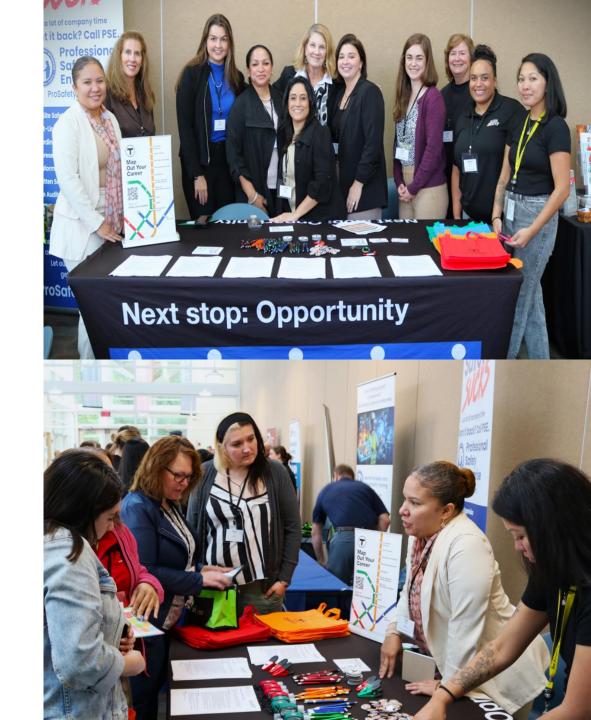
- Continued success reported in system reliability for Heavy Rail Mean Miles Between Mechanical Failures performance, monthly targets have been met each month.
- Continued success for Blue Line in meeting all of its Collision targets. All targets have been met since July 2023.
- All Smoke/Fire Incident targets were met again in August for heavy rail, making this three months
 in a row.

Commuter Rail

• Commuter Rail's August Accident Frequency Ratio stands at 1.5, indicating better performance compared to the year-to-date ratio of 2.1

2024 Women in Safety Conference

- Conference hosted by OSHA Training Institute Education Center on Friday, October 4, at Keene State College
- 10 Safety Division staff members representing various departments attended the conference
- MBTA participated as a conference sponsor with Human Resource representatives meeting with attendees and discussing advertised Safety employment opportunities
- Session topics included:
 - For Women in Safety: Guarding Against Vocational Stress and Burnout
 - Learning From Complacency And Moving Forward With Intention
 - How Process Safety Elements Help Improve Safety in any Industry
 - Why Being a Leader In Safety Matters!



Questions?

Appendix

Safety Performance Indicators and Trend Analysis - *Bus*

- Events in August, exceeding the monthly performance target of 7 but performing better than the YTD average of 11 for the second month in a row.
- There was a *significant increase* in Bus NTD Reportable Injuries (this number includes both customer- and employee-transported injuries) in August. Our YTD monthly average is 29 (against a target of 21), and we had 35 transports in August. *
- For the *fourth consecutive month*, Bus Safety performed at target or better in System Reliability, getting 33,520 mean miles between mechanical failures in August vs. the target rate of 28,500.





Safety Performance Indicators and Trend Analysis – *Heavy Rail*

- Significant improvement in Heavy Rail NTD Major Safety Events over last month, with 6 events in August, compared to our 11 in July. The monthly performance target for this SPI is 1.11.
- Heavy Rail met its NTD Reportable Injuries (this includes both customer and employee transported injuries) performance target of **14.17** for the first time in 2024, with **10** total transports.
- There were O Main Line or Yard derailments on the Heavy Rail in August. However, there were 3 Maintenance Vehicle derailments.
- The Orange Line met its Customer Injury performance target of 2.12 for the 2nd time this year, with a rate of 1.47 customer injuries per one million passenger trips.
- Heavy Rail met its Reportable Smoke Fire performance targets for all three lines in August, with 0 incidents on the Blue Line (vs. target of .98), 2 on the Orange Line (vs. target of 3.21), and 4 on the Red Line (vs. target of 5.88).
- Continued success in System Reliability for Heavy Rail. Heavy Rail Mean Miles Between Mechanical Failures performance in August was 60,912 compared to the target of 49,000. Heavy Rail has met its system reliability performance target each and every month in 2024.



Safety Performance Indicators and Trend Analysis – *Light Rail*

- Steady upward trend of Light Rail NTD Reportable Major Safety Events over the past 3 months, (3 in June, 5 in July, and now 8 in August.) The performance target for this SPI is 2.25.
- Significant increase in Light Rail NTD Reportable Injuries (this includes both customer and employee transported injuries) in August, with 13 total transports compared to only 10 in July and the monthly performance target of 6.58.
- There were no Light Rail derailments in August.
- Light Rail more than doubled its July Customer Injuries
 Rate of 1.14 with a rate of 3.25 customer transports per
 million passenger trips in August, against the target rate
 of 2.86.
- For the 2nd month in a row, Light Rail had 0 Reportable Smoke and Fire Incidents.



Safety Performance Indicators and Trend Analysis Commuter Rail and Ferry

- Commuter Rail's August Accident Frequency Ratio stands at 1.5, indicating better performance compared to the year-to-date ratio of 2.1.
- The Commuter Rail reported 4 Reportable and 1 Non-Reportable employee injuries, with 0 passenger injuries recorded.
- There was 1 Commuter Rail derailment reported in August.
- Additionally, there were 0 reportable rule violations on the Commuter Rail.
- In August 2024, Ferry had O Reportable and O Non-Reportable employee injuries, with O passenger injuries reported.