



**Massachusetts Bay  
Transportation Authority**

# Safety Updates

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Safety, Health and Environment Subcommittee

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# Discussion Topics

- Safety Performance Indicators and Key Metrics - October 2024
- 2024 Transit Safety Plan Approval

# Safety Performance Indicator Reporting

- Each month, the Board of Directors will receive a report on safety metrics and performance summaries of the various modes.
- Safety Performance Targets come from the Transit Safety Plan and the Railroad System Safety Program Plan.
- Events related to Performance Targets are tracked in MBTA Safety databases from OCC and third-party reporting.
- Key Safety Performance Indicators including benchmarks and mitigations will be presented at each SHE meeting.

# Safety Performance Indicators – Blue Line

## October 2024

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Performance Indicator Rate	Blue Target	Blue Actual
Customer Injuries	1.02	0.71
Collisions	0.59	0.00
Collisions with Vehicle	0.00	0.00
Collisions with Object	0.54	0.00
Collisions with Person	0.06	0.00
Collisions with T Vehicle	0.00	0.00
Total Reportable Smoke/Fire Incidents	0.98	0

- All Safety Performance Targets met on Blue Line

# Safety Performance Indicators – Orange Line

## October 2024

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Performance Indicator Rate	Orange Target	Orange Actual
Customer Injuries	2.12	3.14
Collisions	0.88	0.00
Collisions with Vehicle	0.03	0.00
Collisions with Object	0.19	0.00
Collisions with Person	0.65	0.00
Collisions with T Vehicle	0.00	0.00
Total Reportable Smoke/Fire Incidents	3.21	0

- 33% of injuries occurred while alighting trains
- 33% of injuries occurred on stairs or an escalator

# Safety Performance Indicators – Red Line

## October 2024

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Performance Indicator Rate	Red Target	Red Actual
Customer Injuries	2.45	1.75
Collisions	1.00	1.00
Collisions with Vehicle	0.04	0.00
Collisions with Object	0.39	0.00
Collisions with Person	0.39	0.00
Collisions with T Vehicle	0.18	1.00
Total Reportable Smoke/Fire Incidents	5.88	4.00

- One collision involving two hi-rail vehicles on track
- Below target on all other indicator rates

# Safety Performance Indicators – Green Line (Light Rail) October 2024

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Performance Indicator Rate	Green Target	Green Actual
Customer Injuries	2.41	3.80
Collisions	2.86	3.91
Collisions with Vehicle	1.36	0.00
Collisions with Object	0.44	0.00
Collisions with Person	0.48	1.95
Collisions with T Vehicle	0.58	1.95
Total Reportable Smoke/Fire Incidents	3.95	0.00

- 7 injuries reported from Red Bridge derailment on 10/1/24
- Absent the Red Bridge derailment, the injury rate would be 1.75

# Safety Performance Indicators – Bus October 2024

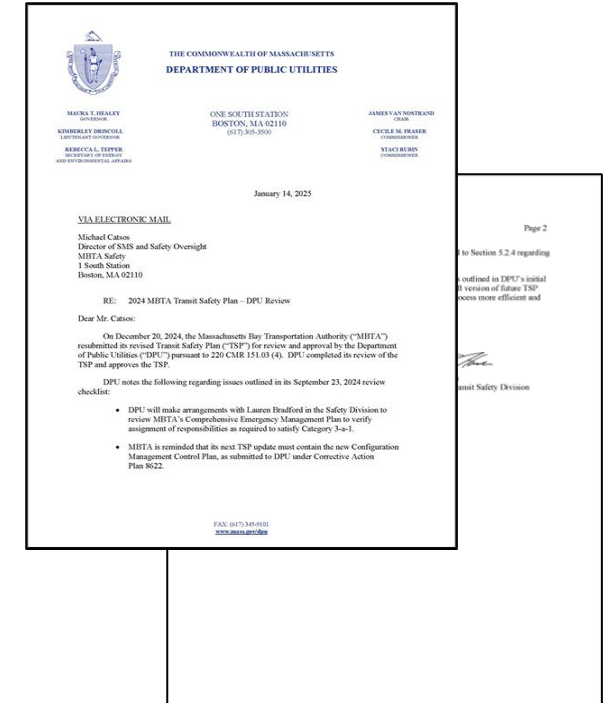
Performance Indicator Rate	Bus Target	Bus Actual
Customer Injuries	2.55	2.15
Collisions	60.08	91.28
Collisions with Vehicle	46.23	72.91
Collisions with Object	10.18	12.24
Collisions with Person	1.58	2.78
Collisions with T Vehicle	2.09	3.34
Total Reportable Smoke/Fire Incidents	1.28	1.00

- 105 total collisions of which 65 were determined to be non-preventable
- All minor – no collisions with disabling damage to the bus
- By comparison, there were 168 bus collisions reported in October 2023
- Target rates set from incident data during the period of 2020-2022



# MBTA 2024 Transit Safety Plan Approval

- MBTA 2024 Transit Safety Plan was approved by DPU on January 14, 2025.
- This was most recently approved by the Board of Directors at the December 2024 meeting.
- MBTA Safety Management Systems Department is beginning to work with relevant stakeholders on updates for the 2025 Transit Safety Plan, which will be due to DPU in September.



Questions?

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