

Rail Safety Committee and Commuter Rail Safety & Security Subcommittee

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APTA Rail Conference

6/29/2025



U.S. Department of Transportation
Federal Transit Administration

Agenda

- State of Rail Safety
- Rail Grade Crossing Safety Update
- Line Overruns
- Rail Transit Roadway Worker Protection
- General Directive Analysis



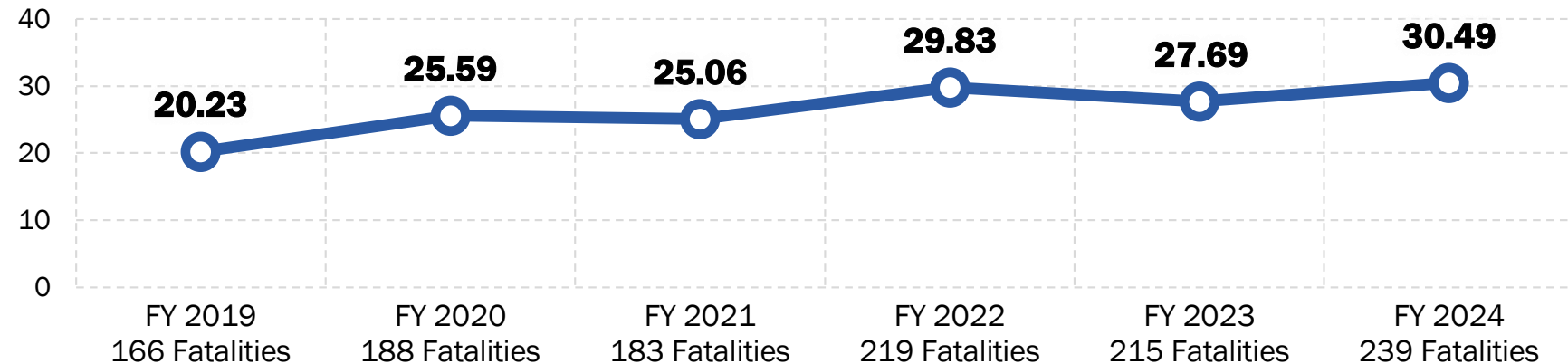
Rail Transit Safety Data Trends



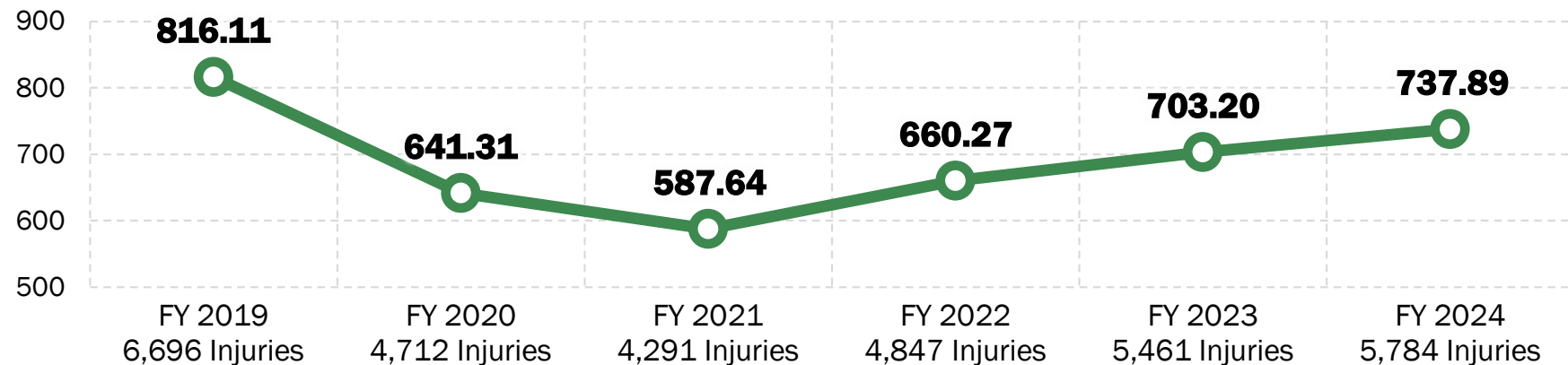
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State of Rail Transit Safety – Annual Trends

**Fatalities per
100 Million VRM**



**Injuries per
100 Million VRM**



- **Source:** National Transit Database (NTD)
FY2024 data are preliminary.

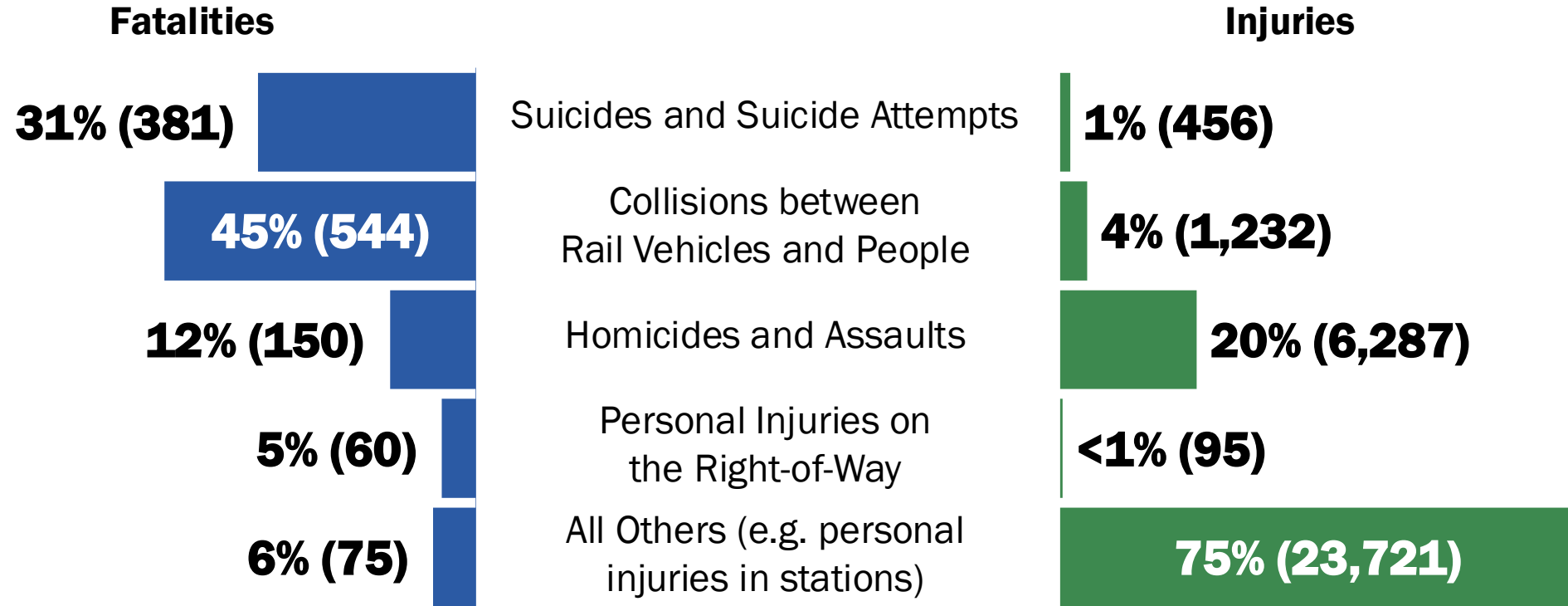
Rail Fatality Breakdown by Quarter

**Total fatalities
are down 22
percent in Q1
FY25 than Q4
FY25**

Quarter	2024 Q1	2024 Q2	2024 Q3	2024 Q4	2025 Q1
Rail Collision	53	54	49	36	37
Rail Homicide	1	7	10	9	5
Rail Other Events	2	4	5	9	3
Total	56	65	64	54	45

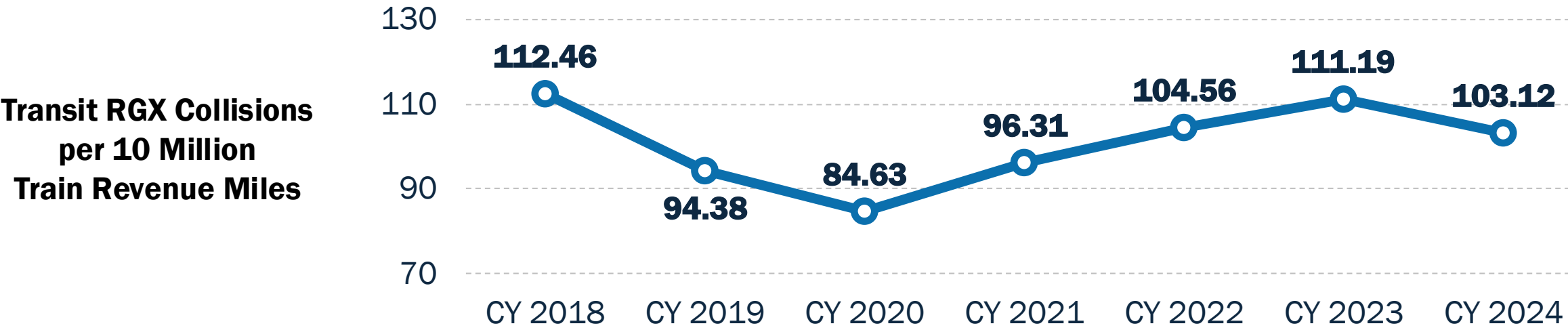
Sources of Rail Transit Fatalities and Injuries

Rail Transit Fatalities and Injuries by Source, Oct 2018–Sep 2024



- **Source:** National Transit Database (NTD)
FY2024 data are preliminary.

Transit RGX Collision Trends



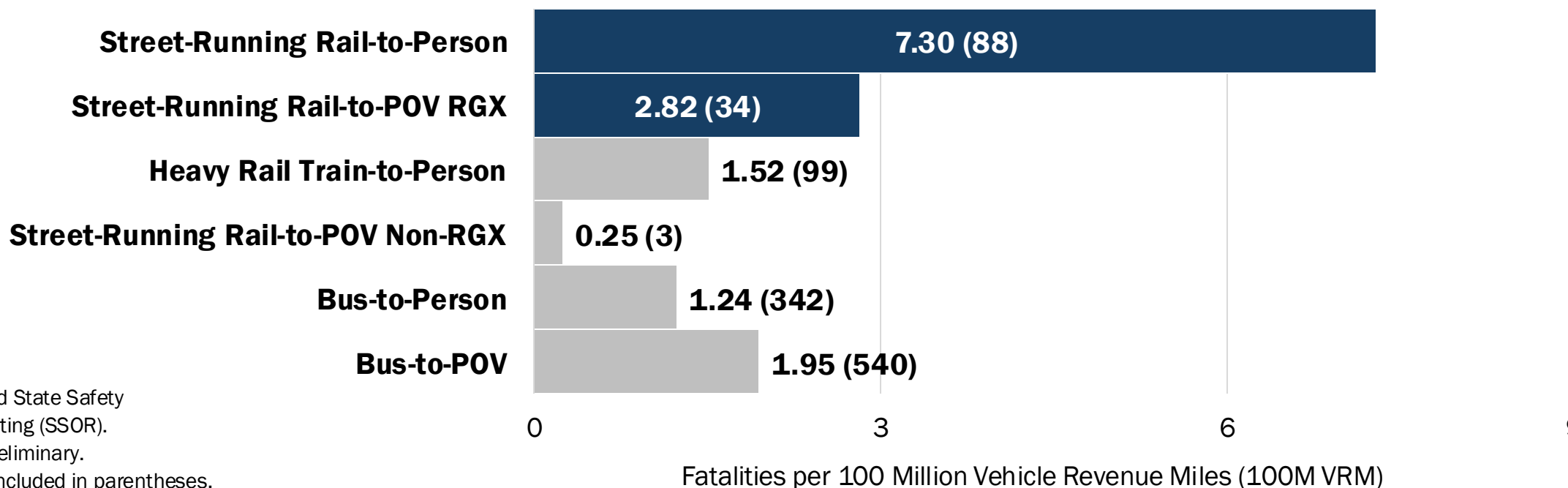
Collisions	733	620	458	522	607	655	635
Fatalities	16	15	12	17	19	16	18
Injuries	193	190	137	135	140	222	201

• **Source:** National Transit Database (NTD)
CY 2024 data are preliminary.

Purpose for Safety Advisory 24-2: The Data

Street-running rail vehicle collisions result in fatalities at a higher rate than other frequently reported collision types, across all modes, in National Transit Database (NTD) data.

Fatality Rate for Frequently-Reported Collision Types, Calendar Year (CY) 2015 - 2024



Source: NTD and State Safety Oversight Reporting (SSOR).
2024 data is preliminary.
Total fatalities included in parentheses.
Data as of 6/2/25.

Line Overruns

Denver RTD (March 2023)



Source: AP

Utah Transit Authority (May 2025)



Source: UTA

SEPTA (May 2025)



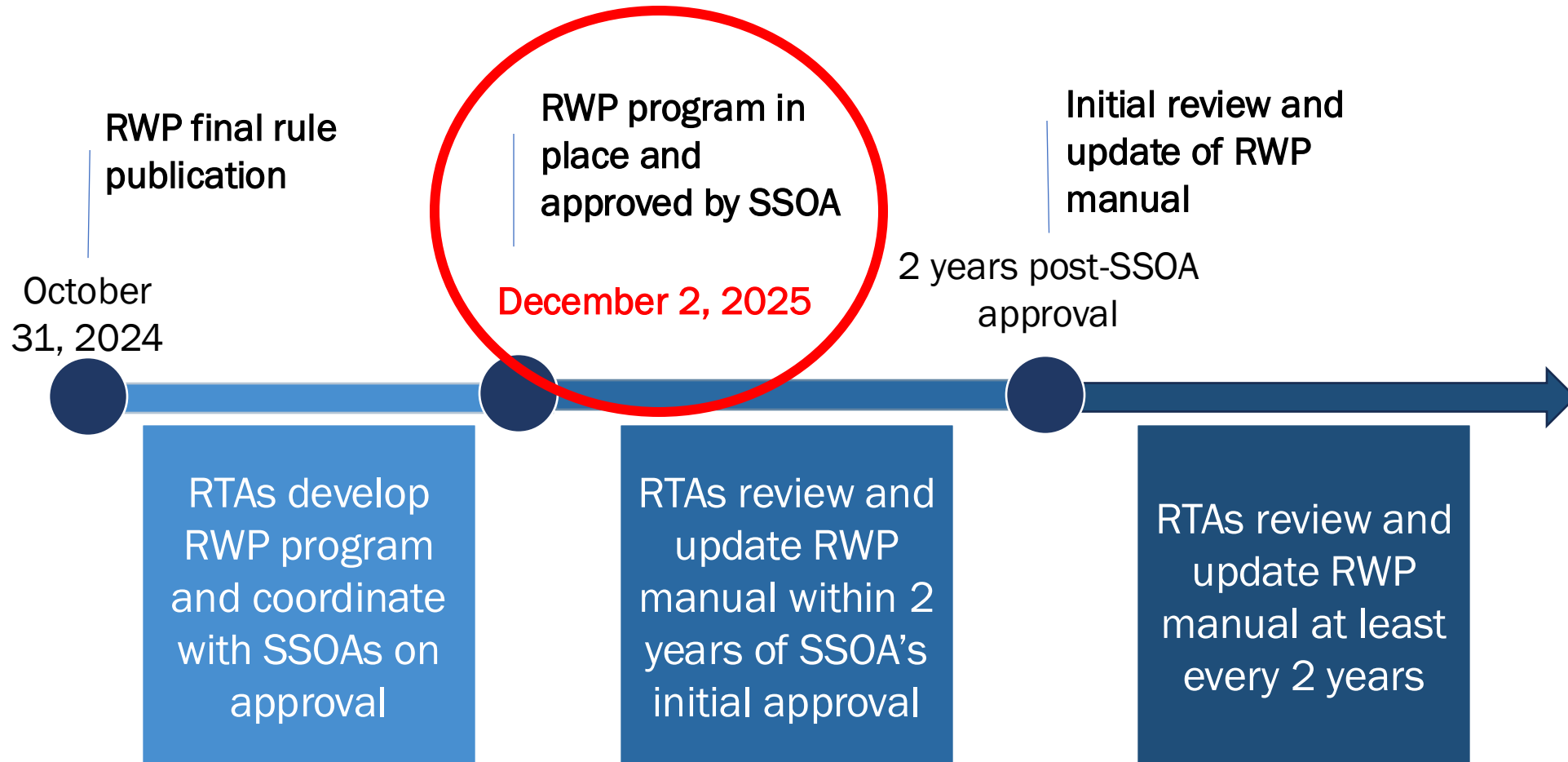
Source: SEPTA

Rail Transit Roadway Worker Protection



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Key Deadlines



Ongoing: SSOAs review and approve RWP program elements, monitor implementation, and conduct annual audits

Key RWP Requirements



The creation of an RWP manual and track access guide



Requirements for on-track safety and supervision



Job safety briefings



Good-faith safety challenges and reporting unsafe acts and conditions and near-misses



Development and implementation of risk-based redundant protections for workers



Establishment of RWP training and qualification and RWP compliance monitoring activities

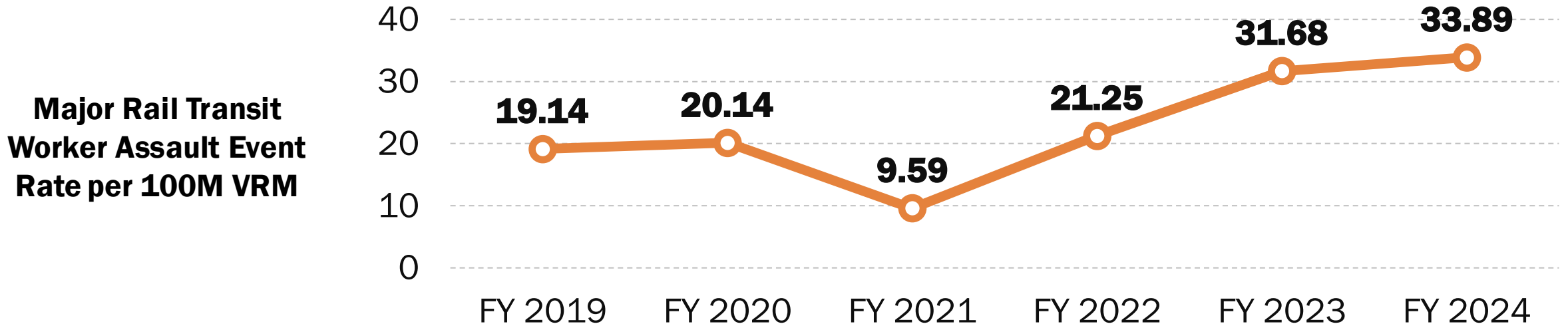
For more information visit our website: <https://www.transit.dot.gov/regulations-and-programs/safety/rail-transit-roadway-worker-protection>

General Directive Analysis Update



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Major Rail Transit Worker Assaults: FY 2019–24



Raw Event, Fatality, and Injury Counts	Major Assaults	157	148	70	156	246	266
	Fatalities	0	0	10	0	2	0
	Injuries	162	150	74	165	279	308

- **Source:** National Transit Database (NTD)
FY 2024 data are preliminary.

Background

General Directive 24-1 required agencies subject to the Public Transportation Agency Safety Plan (PTASP) regulation to:

1

Conduct A Safety Risk Assessment

2

Identify Safety Risk Mitigations

3

Provide Information to FTA Within 90 Days

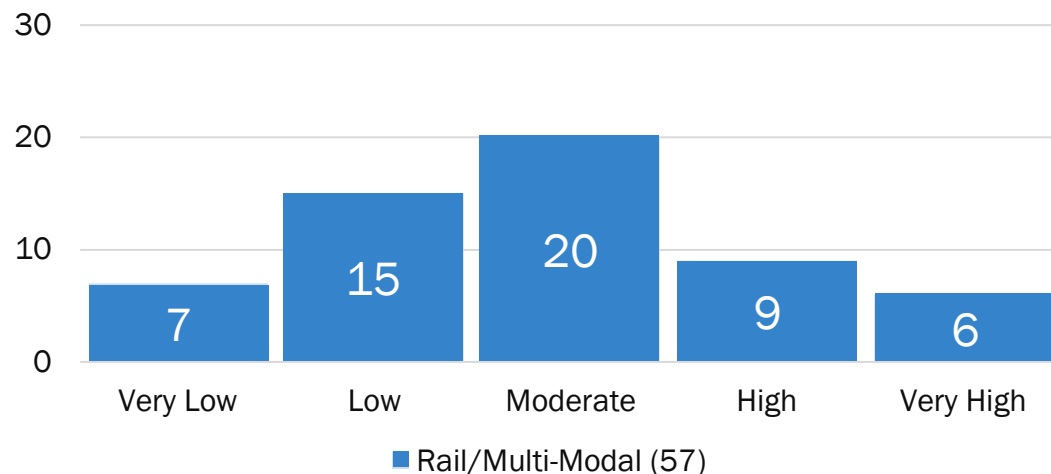
For more information go to: [General Directive 24-1: Required Actions Regarding Assaults on Transit Workers | FTA](#)

Rail/Multi-Modal Agencies and the Overall Risk Rating

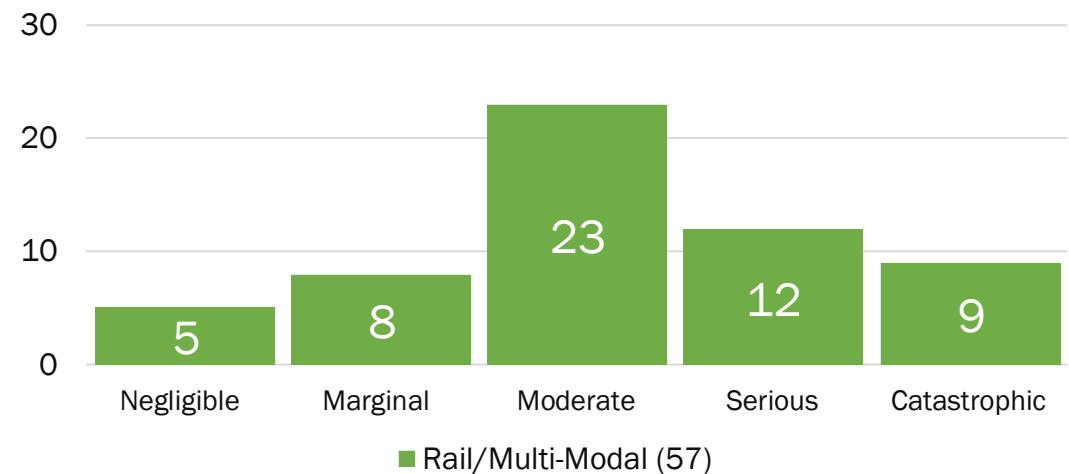
How are rail/multi-modal transit agencies rating the risk of the potential consequences of assaults on transit workers?

- The General Directive required transit agencies to provide an overall risk rating (likelihood and severity) for the potential consequences of assaults on transit workers. The charts below illustrate the overall distribution of the likelihood and severity risk ratings submitted by rail/multi-modal agencies.

Rail/Multi-Modal Overall Risk Rating (Likelihood)



Rail/Multi-Modal Overall Risk Rating (Severity)



Mitigation Status

What mitigations are rail/multi-modal transit agencies deploying?



#1 De-Escalation Training



#2 Video/Audio Surveillance



#3 Operating Policies and Procedures



#4 Signage Informing Riders of Surveillance/Penalties

Mitigation Effectiveness Evaluation – Rail/Multi-modal Agencies



69% found Video/Audio Surveillance to be effective



68% found Automatic Vehicle Location to be effective



66% found Patrol Strategies to be effective



53% found Operator Area Protective Barriers to be effective

Safety Management Systems: Lessons Learned from GD 24-1

Safety Risk Management

- Identify hazards
- Assess risk
- Mitigate risk

*“What’s wrong?”
“How bad is it?”
“How will we fix it?”*

Safety Assurance

- Monitor mitigations
- Measure performance

*“Are our fixes working?”
“Are we meeting our
safety objectives?”*

Lessons Learned from GD 24-1

Agencies were able to leverage their **Safety Risk Management** processes

- *Only 10% of agencies had conducted safety risk assessments on the topic in 12 months prior to GD 24-1*

Safety Assurance processes proved more challenging for the industry

- *While agencies were generally able to assess safety risk, monitoring the effectiveness of mitigations proved more difficult*

Thank you!

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