

# **MBTA Quarterly Safety Report**

**Ronald Nickle, Chief Safety Officer** 

October 30, 2017



#### **Overview**

- Regulatory Updates
- Workplace Safety Improvement Initiative
- Derailments
- Collisions and Fatalities
- Commuter Rail Trespasser Strikes
- Keolis Stop Signal Corrective Action Plan (CAP)



### **Regulatory Updates – FTA & DPU Regulatory Changes**

- FTA Final Rule State Safety Oversight (49 CFR 674)
  - Increased DPU enforcement and safety standard requirements
  - Revisions to DPU's existing State Safety Program Standard (220 CMR 151)
  - MBTA Provided Feedback on the Program Standard Draft
  - Currently in Public Comment Period
  - Public hearing held on September 26, 2017







### **Workplace Safety Improvement Initiative**

- Phase 1: Occupational Health & Safety Plan (Draft under review)
- Phase 2: Prioritization & Implementation Plan (Oct 1, 2017 July 1, 2018)
- **Phase 3:** Implementation (July 1, 2018 Onward)



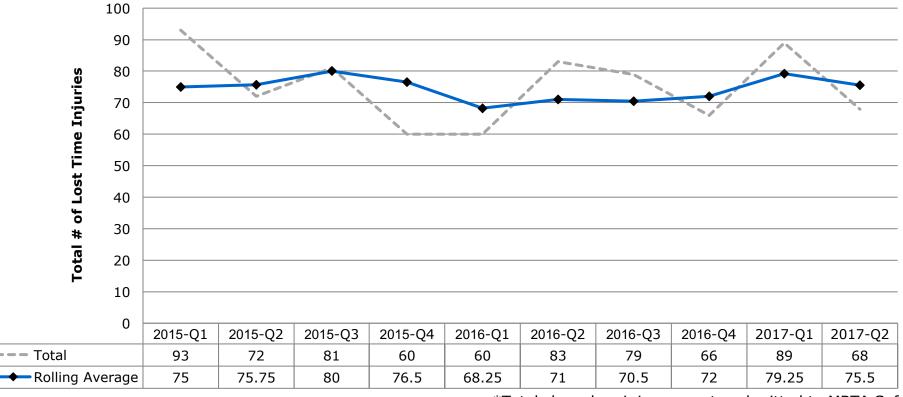




### **Employee Lost Time Injuries**

MBTA Safety has calculated an OSHA Recordable Incident Rate of 5.48 for calendar year 2016.

# **Employee Lost Time Injuries\***



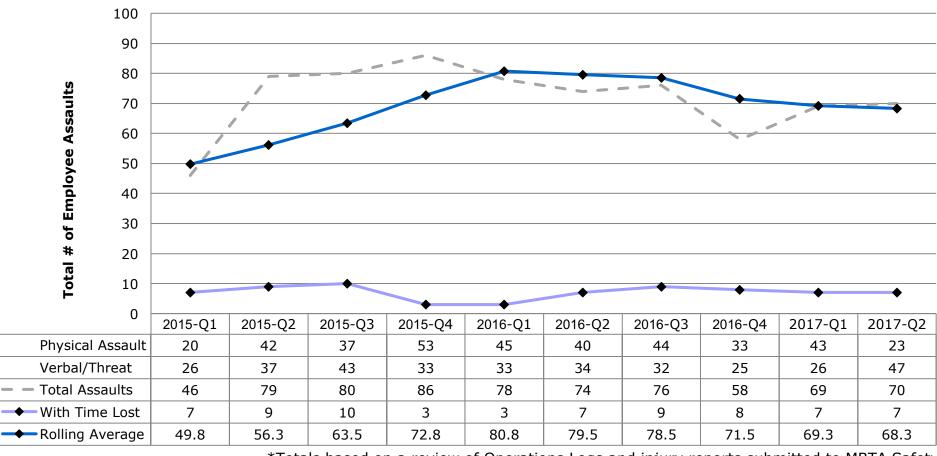
\*Totals based on injury reports submitted to MBTA Safety





#### **Assaults on Employees**

# **Assaults on Employees\***

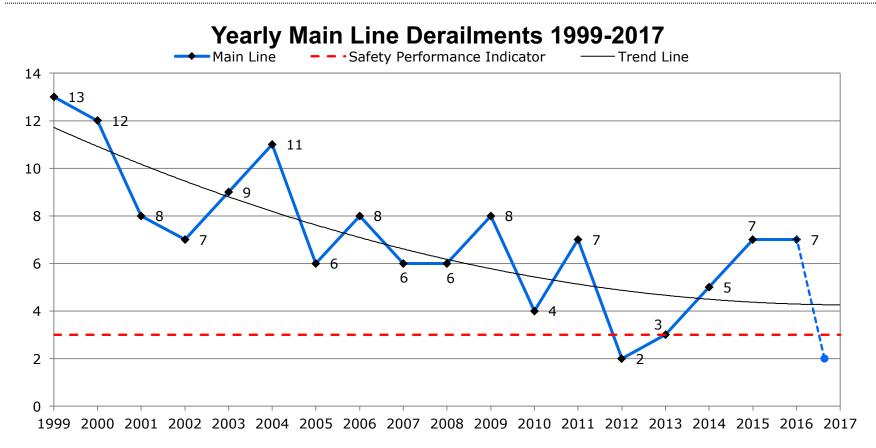


\*Totals based on a review of Operations Logs and injury reports submitted to MBTA Safety





#### **Derailments – Data Review**



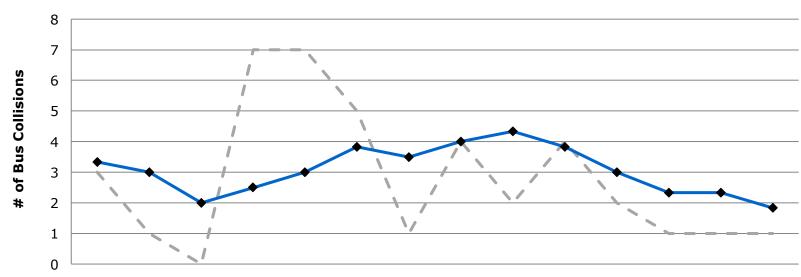
MBTA Safety has coordinated with Transportation Management to improve Investigation processes & procedures.





#### **Bus Collisions**

# **Reportable Bus Collisions\***



	Jul-16	Aug-16	Sep-16	Oct-16	Nov-16	Dec-16	Jan-17	Feb-17	Mar-17	Apr-17	May-17	Jun-17	Jul-17	Aug-17
Bicyclist	0	0	0	3	1	0	0	0	0	0	1	0	0	0
Object	0	0	0	0	0	1	0	0	0	0	0	0	0	0
Person	1	1	0	2	5	4	0	3	1	2	1	1	0	0
Vehicle	2	0	0	2	1	0	1	1	1	2	0	0	1	1
<ul><li>Total Collisions</li></ul>	3	1	0	7	7	5	1	4	2	4	2	1	1	1
→ Total Rolling Average	3.3	3.0	2.0	2.5	3.0	3.8	3.5	4.0	4.3	3.8	3.0	2.3	2.3	1.8

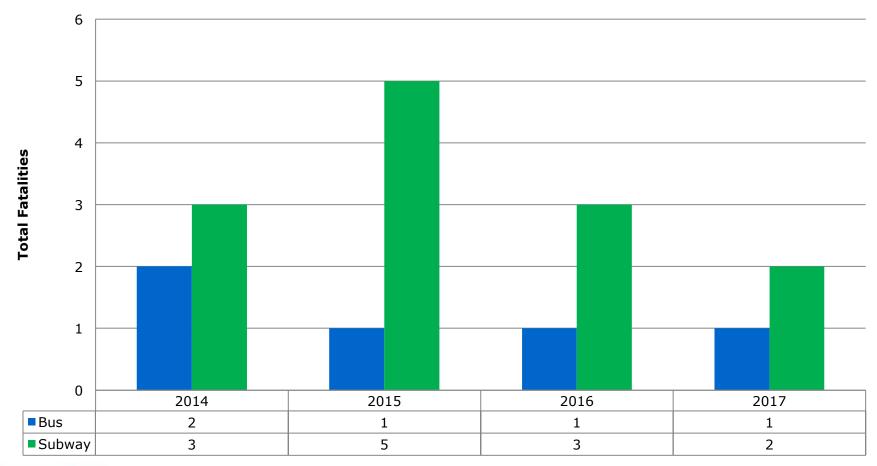
<sup>\*</sup>Reportable bus collisions are collisions with a person requiring transport to a medical facility, any collision involving three or more transports for medical treatment, or any collision resulting in property damage > \$50,000.





#### Bus & Subway Fatalities – 2014 & 2017

# **Bus and Subway Fatalities 2014-2017**







#### Federal Railroad Administration (FRA) Initiative

- National Railway Trespass and Suicide Prevention Project
  - The Volpe Center is analyzing person-to-train collisions
    - Effort is to reduce fatalities from railroad trespass and suicide
    - Project sponsored by the FRA
  - MBTA has agreed to provide access to data on railroad fatalities and injuries
  - Intend to use resulting research reports to identify areas of concern and mitigations



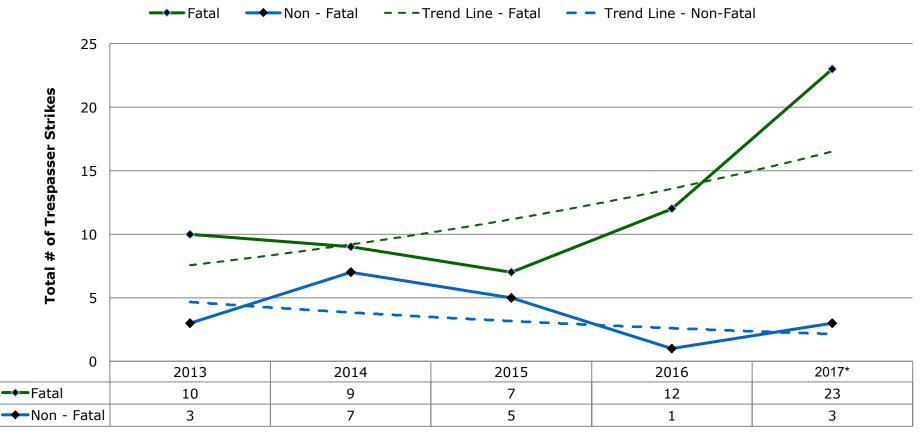






#### **Commuter Rail Trespasser Strikes**

### Commuter Rail Trespasser Strikes<sup>1</sup>



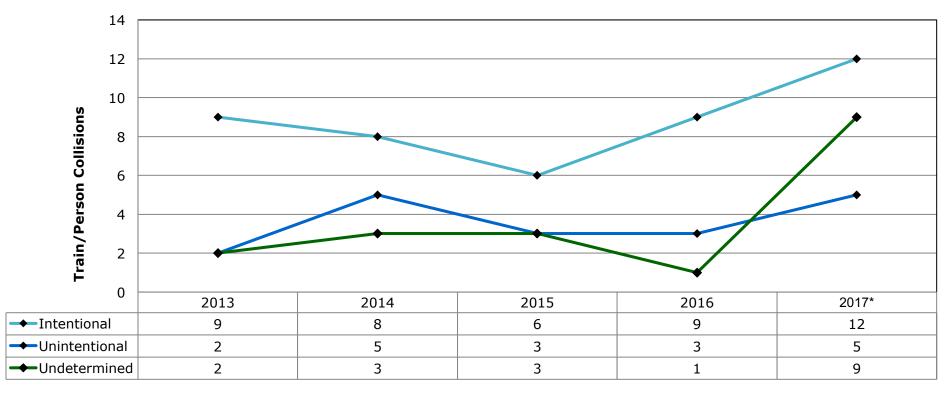
<sup>1</sup>Totals based on a review of Commuter Rail incident and Safety Summary Reports





#### **Commuter Rail Trespasser Strikes**

#### Commuter Rail - Intentional vs. Unintentional 2013-2017



Categorizations are based on a reasonable determination utilizing the available information.

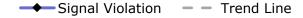
Undetermined incidents include recent incidents without sufficient initial information to make a determination or incidents without adequate historical information

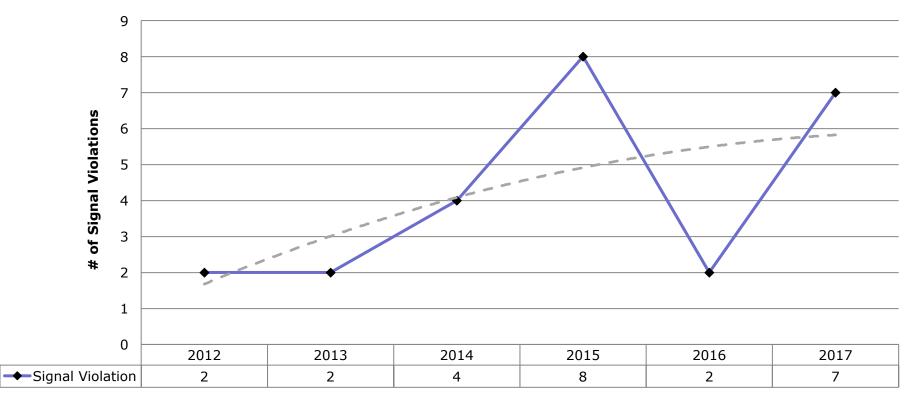




#### **Commuter Rail Stop Signal Violations**

# **Commuter Rail Signal Violations**









#### **Commuter Rail Stop Signal Violations**

- Keolis Stop Signal Corrective Action Plan (CAP)
  - Significant Increase in 2017 Commuter Rail Stop Signal Violations
  - August 31, MBTA Issued a CAP Notification to Keolis
  - Keolis must conduct a trend analysis, identify causal factors, and develop actions to eliminate or control occurrences
  - CAP sent to MBTA Safety on September 30, 2017

Total Signal Violations <sup>1</sup>					
2012	2				
2013	2				
2014	4				
2015	8				
2016	2				
2017*	7				



<sup>1</sup>Totals based on a review of Commuter Rail incident and safety summary reports



#### **Questions?**



