Committee Members

F. Ferrer, Chair
A. Albert
N. Brown
C. Moerdler
M. Pally
J. Samuelson
V. Tessitore, Jr.
J. Vitiello
P. Ward
N. Zuckerman
1. Public Comments

2. Approval of Minutes - October 22, 2018
   Safety Committee Minutes - Page 3

3. Safety Committee Work Plan
   2019 Safety Cmte Work Plan - Page 5

4. Safety Metrics
   November
   MTACC Safety Metrics - ESA and Cortlandt - Page 7
   MNR Safety Metrics - Page 8
   LIRR Safety Metrics - Page 9
   NYCT Safety Metrics - Page 10
   B & T Safety Metrics - Page 11
   October
   MTACC Safety Metrics - ESA and Cortlandt - Page 12
   MNR Safety Metrics - Page 13
   LIRR Safety Metrics - Page 14
   NYCT Safety Metrics - Page 15
   B & T Safety Metrics - Page 16

5. Safety Policy: FTA new SMS Safety Plan Requirements

6. Safety Risk Management: Safety Metrics, Trespassing & Suicide Prevention

Next Committee Meeting: May 2019
The following members were present:

Hon. Joseph Lhota, Chair  
Hon. Mitchell Pally  
Hon. Andrew Albert  
Hon. Norman Brown  
Hon. Vincent Tessitore  
Hon. Peter Ward  
Hon. Neal Zuckerman  
Hon. Ira Greenberg

The following agency safety officers were present:
Patrick Warren, Metropolitan Transportation Authority, Headquarters (“MTAHQ”)  
Robert Diehl, MTA New York City Transit, (“NYCT”)  
Loretta Ebbighausen, MTA Long Island Rail Road (“LIRR”)  
Justin Vonashek, Metro-North Railroad (“MNR”)MNR  
Eric Osnes,  MTA Bridges and Tunnels (“B&T”)  
Peter Kohner, MTA Capital Construction (“CC”)

Ronnie Hakim, Managing Director, Metropolitan Transportation Authority (“MTA”); Helene Fromm, Chief of Staff, MTA were also in attendance.

**Chairman Lhota chaired the October meeting, and called the meeting to order.**

**PUBLIC SPEAKERS**

There were no public speakers.

**INTRODUCTORY COMMENTS FROM NEW CHIEF SAFETY OFFICER, PATRICK WARREN**

Chair Lhota welcomed Chief Safety Officer, Patrick Warren, and Mr. Warren conducted opening comments. Please refer to the video recording of the meeting produced by the MTA and maintained in MTA records for the content of the speaker’s presentation.
APPROVAL OF MINUTES

Upon motion duly made and seconded, the minutes of the July 25, 2018 Safety Committee were approved.

SAFETY COMMITTEE WORK PLAN

Chairman Lhota asked if there any changes to the work plan. Mr. Warren said that were no changes.

SAFETY PROMOTION: AWARENESS BROCHURE/SAFETY DAY

Mr. Warren discussed the Safety Management System (SMS) component, safety promotion. The Safety Officers from Metro-North Railroad, Long Island Rail Road, New York City Transit and Bridges and Tunnels discussed activities their agencies were performing to promote safety among their staff and customers. Please refer to the video recording of the meeting produced by the MTA and maintained in MTA records for the content of the speakers’ presentations.

SAFETY RISK MANAGEMENT: NTSB RECOMMENDATIONS

Mr. Warren discussed the SMS component, Safety Risk Management. Please refer to the video recording of the meeting produced by the MTA and maintained in MTA records for the content of the speaker’s presentation.

Mr. Zuckerman asked for clarity on some of the NTSB recommendations and which recommendations will be closed in 2019. Mr. Warren responded to Mr. Zuckerman’s question with what recommendations will be closed in 2019. Please refer to the video recording of the meeting produced by the MTA and maintained in MTA records for the content of the speaker’s presentation.

Mr. Greenberg commented on the commuter railroads and how PTC will not effective at Penn Station, Grand Central, Brooklyn Terminal and Jamaica and we should look at something that will provide the same sort of protection as PTC and encourages the MTA to look at this in the future.

ADJOURNMENT

Chairman Lota asked for a motion to adjourn the meeting. A motion was made and seconded and the meeting was adjourned.
I. RECURRING AGENDA ITEMS

<table>
<thead>
<tr>
<th>Topic</th>
<th>Responsibility</th>
</tr>
</thead>
<tbody>
<tr>
<td>Public Comments</td>
<td>Committee Chair &amp; Members</td>
</tr>
<tr>
<td>Approval of Minutes</td>
<td>Committee Chair &amp; Members</td>
</tr>
<tr>
<td>Committee Work Plan</td>
<td>Committee Chair &amp; Members</td>
</tr>
</tbody>
</table>

II. SPECIFIC AGENDA ITEMS

**January 2019**

Safety Policy
- Approval of 2019 Work Plan - MTA Chief Safety Officer
- FTA new SMS Safety Plan requirements - NYCT Safety & Security Review

Safety Risk Management
- 2018 Safety Statistics - Agency Safety Leads
- Trespassing/Suicide Prevention coordination - Agency Safety Leads & MTA

**May 2019**

Safety Assurance
- Grade Crossing Improvements - Safety & Emergency Management

**July 2019**

Safety Promotion
- Mass notification implementation - Safety & Emergency Management
- Preparedness drills

**October 2019**

Safety Risk Management
- Fatigue - MTA Chief Safety Officer
- Soft tissue injuries (Musculoskeletal) - Agency Safety Leads

**January 2020**

Safety Policy – Approval of 2020 Work Plan - Committee Chair & Members

Detailed Summary

I. RECURRING AGENDA ITEMS

Approval of Minutes
The Committee Chair will request a motion to approve the minutes of the prior meeting of the Safety Committee.
Committee Work Plan
The Work Plan will list, by meeting, the topics scheduled for review. The Committee will be advised if any changes have been made to the plan.

II. SPECIFIC AGENDA ITEMS

Note: The SMS framework has four pillars: Safety Policy, Safety Risk Management, Safety Assurance, and Safety Promotion. To facilitate general oversight of SMS activities at the MTA and its agencies, each agenda items will generally pertain to one of these pillars.

January 2019
Safety Policy – Approval of the 2019 workplan
The committee will receive a discussion on the 2019 workplan and asked to approve. The committee will also be briefed on the Federal Transit Administration’s new Agency Safety Plan (aka Safety Management System – SMS) regulation, to include its application at the MTA and requirements for the MTA Board.

Safety Risk Management –
The committee will receive be briefed on the 2018 safety metrics. The committee will also receive a briefing regarding customer initiated incidents, including trespassing and suicide prevention efforts from across the agencies.

May 2019
Safety Assurance –
The committee will receive a briefing pertaining to the efforts of improving grade crossing safety and the development of standards for consistency.

July 2019
Safety Risk Management
The committee will receive a midyear report on the 2019 safety metrics.

Safety Promotion
The committee will receive a briefing and discussion will be invited pertaining to the implementation of an MTA employee mass notification system as well as emergency preparedness drills. The Committee will also receive a briefing on emergency preparedness programs and standards.

October 2019
Safety Risk Management
The committee will receive a briefing on the MTA’s fatigue mitigation programs. The committee will also receive a briefing regarding soft tissue injuries and agency efforts to mitigate the risk posed by them.

January 2020
Safety Policy – Approval of 2019 Work Plan
The committee will be presented with and discuss the 2020 work plan and asked to approve the same. As the work plan governs the activities of the committee, this pertains to the Safety Policy SMS pillar.
For East Side Access - November 2018

### Performance

<table>
<thead>
<tr>
<th>Injury Rate</th>
<th>2017</th>
<th>2018 YTD</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lost Time Injury Rate per 200,000 worker hours</td>
<td>0.23</td>
<td>0.9</td>
</tr>
<tr>
<td>Recordable Injury Rate</td>
<td>1.25</td>
<td>1.7</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Performance Indicator - CM</th>
<th>Nov</th>
<th>YTD</th>
<th>Goal</th>
<th>YTD as % of Goal</th>
</tr>
</thead>
<tbody>
<tr>
<td>Daily Safety Walkthrough</td>
<td>201</td>
<td>2286</td>
<td>1920</td>
<td>119%</td>
</tr>
<tr>
<td>JHAT Audit</td>
<td>8</td>
<td>119</td>
<td>120</td>
<td>99%</td>
</tr>
<tr>
<td>Quarterly Safety Audit</td>
<td>0</td>
<td>15</td>
<td>20</td>
<td>75%</td>
</tr>
<tr>
<td>Bi Annual ACE Evaluation</td>
<td>0</td>
<td>12</td>
<td>10</td>
<td>120%</td>
</tr>
<tr>
<td>Safety Monthly Meeting</td>
<td>7</td>
<td>78</td>
<td>12</td>
<td>650%</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Leading Indicators - Contractor</th>
<th>Nov</th>
<th>YTD</th>
<th>Goal</th>
<th>YTD as % of Goal</th>
</tr>
</thead>
<tbody>
<tr>
<td>Training</td>
<td>36</td>
<td>381</td>
<td>160</td>
<td>238%</td>
</tr>
<tr>
<td>Toolbox Talks</td>
<td>20</td>
<td>703</td>
<td>500</td>
<td>141%</td>
</tr>
<tr>
<td>Site Inspections</td>
<td>112</td>
<td>2023</td>
<td>2940</td>
<td>69%</td>
</tr>
<tr>
<td>SWP Review/Audit</td>
<td>14</td>
<td>301</td>
<td>425</td>
<td>71%</td>
</tr>
<tr>
<td>New Employee Orientation</td>
<td>16</td>
<td>827</td>
<td>1500</td>
<td>55%</td>
</tr>
<tr>
<td>Emergency Preparedness</td>
<td>4</td>
<td>55</td>
<td>20</td>
<td>275%</td>
</tr>
</tbody>
</table>

For Cortlandt - November 2018

### Performance

<table>
<thead>
<tr>
<th>Injury Rate</th>
<th>2017</th>
<th>2018 YTD</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lost Time Injury Rate per 200,000 worker hours</td>
<td>0.0</td>
<td>0.8</td>
</tr>
<tr>
<td>Recordable Injury Rate</td>
<td>0.0</td>
<td>10.9</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Performance Indicator - CM</th>
<th>Nov</th>
<th>YTD</th>
<th>Goal</th>
<th>YTD as % of Goal</th>
</tr>
</thead>
<tbody>
<tr>
<td>Daily Safety Walkthrough</td>
<td>41</td>
<td>532</td>
<td>480</td>
<td>111%</td>
</tr>
<tr>
<td>JHAT Audit</td>
<td>2</td>
<td>22</td>
<td>24</td>
<td>92%</td>
</tr>
<tr>
<td>Quarterly Safety Audit</td>
<td>0</td>
<td>3</td>
<td>4</td>
<td>75%</td>
</tr>
<tr>
<td>Bi Annual ACE Evaluation</td>
<td>0</td>
<td>1</td>
<td>2</td>
<td>50%</td>
</tr>
<tr>
<td>Safety Monthly Meeting</td>
<td>10</td>
<td>179</td>
<td>180</td>
<td>99%</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Leading Indicators - Contractor</th>
<th>Nov</th>
<th>YTD</th>
<th>Goal</th>
<th>YTD as % of Goal</th>
</tr>
</thead>
<tbody>
<tr>
<td>Training</td>
<td>3</td>
<td>48</td>
<td>64</td>
<td>75%</td>
</tr>
<tr>
<td>Toolbox Talks</td>
<td>6</td>
<td>59</td>
<td>50</td>
<td>118%</td>
</tr>
<tr>
<td>Site Inspections</td>
<td>60</td>
<td>601</td>
<td>720</td>
<td>83%</td>
</tr>
<tr>
<td>SWP Review/Audit</td>
<td>1</td>
<td>33</td>
<td>45</td>
<td>73%</td>
</tr>
<tr>
<td>New Employee Orientation</td>
<td>2</td>
<td>87</td>
<td>100</td>
<td>87%</td>
</tr>
<tr>
<td>Emergency Preparedness</td>
<td>0</td>
<td>1</td>
<td>2</td>
<td>50%</td>
</tr>
</tbody>
</table>
# November 2018 Safety Report

## Performance

<table>
<thead>
<tr>
<th>Performance Indicator</th>
<th>12-Month Average</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>December 2015 - November 2016</td>
</tr>
<tr>
<td>FRA Reportable Customer Accident Rate per Million Customers</td>
<td>1.25</td>
</tr>
<tr>
<td>FRA Reportable Employee Lost Time Injury Rate per 200,000 worker hours</td>
<td>2.96</td>
</tr>
</tbody>
</table>

## Leading Indicators

<table>
<thead>
<tr>
<th>Safety Training</th>
<th>2017</th>
<th>2018</th>
</tr>
</thead>
<tbody>
<tr>
<td>November</td>
<td>Year to Date</td>
<td>November</td>
</tr>
<tr>
<td>First Responders Trained</td>
<td>72</td>
<td>1,403</td>
</tr>
<tr>
<td>Employee Safety Training Courses</td>
<td>135</td>
<td>312</td>
</tr>
<tr>
<td>Employees Trained</td>
<td>2,596</td>
<td>6,609</td>
</tr>
<tr>
<td>Employee Safety Training Hours</td>
<td>18,678</td>
<td>251,754</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Customer and Community: Focus on Grade Crossings</th>
<th>2017</th>
<th>2018</th>
</tr>
</thead>
<tbody>
<tr>
<td>November</td>
<td>Year to Date</td>
<td>November</td>
</tr>
<tr>
<td>Broken Gates</td>
<td>3</td>
<td>23</td>
</tr>
<tr>
<td>MTA Police Details</td>
<td>122</td>
<td>1,349</td>
</tr>
<tr>
<td>Summons</td>
<td>48</td>
<td>595</td>
</tr>
<tr>
<td>Warnings</td>
<td>3</td>
<td>154</td>
</tr>
<tr>
<td>Community Education and Outreach</td>
<td>4,650</td>
<td>71,643</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Cars Equipped with Cameras</th>
<th>Fleet Size</th>
<th>Total Cars Equipped</th>
<th>% Complete</th>
</tr>
</thead>
<tbody>
<tr>
<td>Inward / Outward Facing Cab Cameras</td>
<td>956</td>
<td>869</td>
<td>90.90%</td>
</tr>
<tr>
<td>Passenger Compartment Cameras</td>
<td>1,085</td>
<td>834</td>
<td>76.87%</td>
</tr>
</tbody>
</table>

**Definitions:**

- **First Responders Trained** - The number of first responders trained by MNR's Emergency Management to assist in crisis events, such as train evacuation.

- **Employee Safety Training Courses** - The number of distinct safety-related courses offered, including technical courses that have a safety element. Repeats are excluded so that each course is counted only once.

- **Employees Trained** - The number of unique employees that attended one or more of these safety-related courses.

- **Employee Safety Training Hours** - The total hours of training completed by employees in all safety-related courses attended.

- **Broken Gates** - The number of events at grade crossing locations where a vehicle struck a crossing gate.

- **MTA Police Detail** - The number of details specifically for the purpose of monitoring behavior at Grade Crossings.

- **Summons** - The number of violations issued to a motorist for going around a crossing gate or due to behavior that put the motorist at risk (i.e. cell phone use, etc.).

- **Warnings** - The number of warnings issued to motorists due to behavior that put the motorist at risk.

- **Community Education and Outreach** - The number of individuals reached at a TRACKS event.

- **Cars Equipped with Cameras** - Number of complete inward/outward and passenger compartment camera installations on rolling stock.
# November 2018 Safety Report

Statistical results for the 12-Month period are shown below.

<table>
<thead>
<tr>
<th>Performance</th>
<th>12-Month Average</th>
<th>December 2015 - November 2016</th>
<th>December 2016 - November 2017</th>
<th>December 2017 - November 2018</th>
</tr>
</thead>
<tbody>
<tr>
<td>FRA Reportable Customer Accident Rate per Million Customers</td>
<td>3.96</td>
<td>4.23</td>
<td>1.99</td>
<td></td>
</tr>
<tr>
<td>FRA Reportable Employee Lost Time Injury Rate per 200,000 worker hours</td>
<td>3.00</td>
<td>3.79</td>
<td>2.85</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Grade Crossing Incidents 1</th>
<th>2017</th>
<th>2018</th>
</tr>
</thead>
<tbody>
<tr>
<td>November</td>
<td>Year to Date</td>
<td>November</td>
</tr>
<tr>
<td>Grade Crossing Incidents</td>
<td>3</td>
<td>16</td>
</tr>
<tr>
<td>Mainline FRA Reportable Train Derailments</td>
<td>0</td>
<td>1</td>
</tr>
<tr>
<td>Mainline FRA Reportable Train Collisions</td>
<td>0</td>
<td>2</td>
</tr>
</tbody>
</table>

1 Per FRA - Any impact between railroad on-track equipment and a highway user at a highway-rail grade crossing. The term "highway user" includes automobiles, buses, trucks, motorcycles, bicycles, farm vehicles, pedestrians, and all other modes of surface transportation motorized and un-motorized.

## Focus on Safety Training

<table>
<thead>
<tr>
<th>Focus on Safety Training</th>
<th>2017</th>
<th>2018</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>November</td>
<td>Year to Date</td>
</tr>
<tr>
<td>First Responders Trained</td>
<td>116</td>
<td>1,478</td>
</tr>
<tr>
<td>Employee Safety Training Courses</td>
<td>80</td>
<td>678</td>
</tr>
<tr>
<td>Employees Trained</td>
<td>888</td>
<td>9,816</td>
</tr>
<tr>
<td>Employee Safety Training Hours</td>
<td>18,284</td>
<td>241,407</td>
</tr>
</tbody>
</table>

## Customer and Community:

### Focus on Grade Crossings

<table>
<thead>
<tr>
<th>Customer and Community: Focus on Grade Crossings</th>
<th>2017</th>
<th>2018</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>November</td>
<td>Year to Date</td>
</tr>
<tr>
<td>Broken Gates</td>
<td>7</td>
<td>105</td>
</tr>
<tr>
<td>MTA Police Details</td>
<td>189</td>
<td>1,072</td>
</tr>
<tr>
<td>Summons</td>
<td>118</td>
<td>1,707</td>
</tr>
<tr>
<td>Warnings</td>
<td>78</td>
<td>814</td>
</tr>
<tr>
<td>Arrests</td>
<td>0</td>
<td>1</td>
</tr>
<tr>
<td>Community Education and Outreach</td>
<td>12,746</td>
<td>112,132</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Completed</th>
<th>Total</th>
<th>% Complete</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cameras on Rolling Stock</td>
<td>M7 (Cars)</td>
<td>270</td>
</tr>
<tr>
<td></td>
<td>C3 Cab</td>
<td>23</td>
</tr>
<tr>
<td></td>
<td>C3 Trailer</td>
<td>33</td>
</tr>
<tr>
<td></td>
<td>DE/DM</td>
<td>1</td>
</tr>
</tbody>
</table>

**First Responders Trained** - The number of first responders trained to assist in crisis events.

**Employee Safety Training Courses** - The number of distinct safety-related courses offered, including technical courses that have a requirement for a specific certification.

**Employees Trained** - The number of unique employees that attended one or more of these safety-related courses.

**Employee Safety Training Hours** - The total hours of training completed by employees in all safety-related courses attended.

**Broken Gates** - The number of events at grade crossing locations where a vehicle broke a crossing gate.

**MTA Police Details** - The number of details specifically for the purpose of monitoring behavior at Grade Crossings.

**Summons for Grade Crossing Violation and other Infractions** - The number of violations issued to a motorist for going around a crossing gate or due to behavior that put the motorist at risk (i.e. cell phone use, etc.).

**Warnings** - The number of warnings issued to motorists due to behavior that put the motorist at risk (i.e. cell phone use, etc.).

**Community Education and Outreach** - The number of participants who attended a TRACKS, Operation LifeSaver, or Railroad Safety Awareness Event.

**Cameras on Rolling Stock** - Number of complete inward/outward camera installations on rolling stock.
Statistical results for the 12-Month period are shown below

### Safety Report

<table>
<thead>
<tr>
<th>Performance Indicators</th>
<th>12-Month Average</th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Dec 15 - Nov 16</td>
<td>Dec 16 - Nov 17</td>
<td>Dec 17 - Nov 18</td>
<td></td>
</tr>
<tr>
<td><strong>Subways</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Subway Customer Accidents per Million Customers ¹</td>
<td>2.53</td>
<td>2.82</td>
<td>2.94</td>
<td></td>
</tr>
<tr>
<td>Subway Collisions ²</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td></td>
</tr>
<tr>
<td>Subway Derailments ²</td>
<td>1</td>
<td>6</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>Subway Fires ²</td>
<td>943</td>
<td>927</td>
<td>940</td>
<td></td>
</tr>
<tr>
<td><strong>Buses</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Bus Collisions Per Million Miles Regional</td>
<td>56.38</td>
<td>55.24</td>
<td>53.48</td>
<td></td>
</tr>
<tr>
<td>Bus Collision Injuries Per Million Miles Regional</td>
<td>6.68</td>
<td>6.17</td>
<td>6.06</td>
<td></td>
</tr>
<tr>
<td>Bus Customer Accidents Per Million Customers ¹ Regional</td>
<td>1.22</td>
<td>1.26</td>
<td>1.29</td>
<td></td>
</tr>
<tr>
<td><strong>Total NYCT and MTA Bus Lost Time Accidents per 100 Employees ¹</strong></td>
<td>4.19</td>
<td>3.55</td>
<td>3.58</td>
<td></td>
</tr>
</tbody>
</table>

¹ 12-month Average data from November through October.

² 12-month figures shown are totals rather than averages.

### Leading Indicators

<table>
<thead>
<tr>
<th>Subways</th>
<th>November</th>
<th>YTD</th>
<th>Goal</th>
<th>YTD as % of Goal</th>
</tr>
</thead>
<tbody>
<tr>
<td>Roadway Worker Protection</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Joint Track Safety Audits -- Actual Count</td>
<td>28</td>
<td>355</td>
<td>340</td>
<td>104.4%</td>
</tr>
<tr>
<td>Joint Track Safety Audits -- Compliance Rate</td>
<td>98.9%</td>
<td>98.4%</td>
<td>100.0%</td>
<td>98.4%</td>
</tr>
<tr>
<td>Mainline Collision/Derailment Prevention</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Continuous Welded Rail Initiative (# of Track Feet)</td>
<td>10,182</td>
<td>93,426</td>
<td>72,000</td>
<td>129.8%</td>
</tr>
<tr>
<td>Friction Pad Installation</td>
<td>9,507</td>
<td>103,344</td>
<td>50,000</td>
<td>206.7%</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Buses</th>
<th>November</th>
<th>YTD</th>
<th>Goal</th>
<th>YTD as % of Goal</th>
</tr>
</thead>
<tbody>
<tr>
<td>Collision Prevention</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Audible Pedestrian Warning System Pilot</td>
<td>48</td>
<td>276</td>
<td>339</td>
<td>81.4%</td>
</tr>
<tr>
<td>Vision Zero Employee Training</td>
<td>543</td>
<td>5,969</td>
<td>6,100</td>
<td>97.9%</td>
</tr>
</tbody>
</table>
November 2018 Safety Report

Statistical results for the 12-Month period are shown below.

### Performance Indicator

<table>
<thead>
<tr>
<th>Performance Indicator</th>
<th>12-Month Average</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>December 2015 - November 2016</td>
</tr>
<tr>
<td>Customer Collisions Rate for Bridge Customers per Million Vehicles</td>
<td>7.43</td>
</tr>
<tr>
<td>Customer Injury Collisions Rate for Bridge Customers per Million Vehicles</td>
<td>0.92</td>
</tr>
<tr>
<td>Employee Accident Reports</td>
<td>253</td>
</tr>
<tr>
<td>Employee Lost Time Injuries Rate per 200,000 worker hours</td>
<td>6.8</td>
</tr>
<tr>
<td>Construction Injuries per 200,000 worker</td>
<td>1.97</td>
</tr>
</tbody>
</table>

### Leading Indicators

<table>
<thead>
<tr>
<th>Roadway Safety</th>
<th>2017</th>
<th>2018</th>
</tr>
</thead>
<tbody>
<tr>
<td>Workforce Development ( # of Participants)</td>
<td>86</td>
<td>926</td>
</tr>
<tr>
<td>Fleet Preventative Maintenance Insp.</td>
<td>133</td>
<td>1445</td>
</tr>
<tr>
<td>Safety Taskforce Inspections</td>
<td>0</td>
<td>12</td>
</tr>
<tr>
<td>Construction Safety</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Construction Safety Inspections</td>
<td>303</td>
<td>3384</td>
</tr>
<tr>
<td>Fire Safety</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Fire Code Audits Completed</td>
<td>2</td>
<td>14</td>
</tr>
<tr>
<td>FDNY Liaison Visits</td>
<td>1</td>
<td>25</td>
</tr>
</tbody>
</table>

### Definitions:

**Workforce Development** provides for focused safety and skills training to all operations, maintenance and staff personnel. Classes feature OSHA 10 and 30 Classes, operations mandatory safety and skills instruction and retraining and specialty training (TIMS, CIL, FDNY instruction, Wrecker Driver Instruction and Roadway Safety Rules).

**Fleet Preventative Maintenance Inspections** are conducted at each location to improve the customer and worker safety environment. Inspections identify potential hazardous roadway or facility conditions and prescribe corrective actions to eliminate hazards.

**Safety Taskforce Inspections** are conducted by the joint Labor and Management Committee at each facility throughout the year on a rotating basis. The inspections consist of reviewing past accident and incident experiences/reports and facility safety reports. The Taskforce meets with location management and union representatives and makes a complete tour of the facility. The Taskforce is comprised of representatives of the Safety and Operations groups and has representation from each of the represented unions.

**Construction Safety Inspections** are conducted by an independent safety monitor to ensure that the necessary components for a safe construction are present. Inspections include review of safety organization, job hazard analysis, safe work plans for specific high risk activities, personal protective equipment, fire protection, industrial hygiene, and training.

**Fire Code Audits** are required by the NYS Uniform Fire Prevention Code. They are conducted by the Safety and Health Department at each building and facility throughout the Agency. They feature a review of fire prevention activities and the condition of fire fighting and suppression equipment.

**FDNY Liaison Visits** are conducted on a regular basis (typically twice a year) whereby local fire companies visit and tour the facilities to become familiar with the structures and buildings and the fire equipment provided. This facilitates the development of strategies for fighting fires and responding to emergencies. Additionally, special drills and training exercises are conducted to drill on communications and special rescue operations should they be required.
# SAFETY OPERATIONS REPORT

## For East Side Access - October 2018

### Performance

<table>
<thead>
<tr>
<th>Injury Rate</th>
<th>2017</th>
<th>2018 YTD</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lost Time Injury Rate per 200,000 worker hours</td>
<td>0.23</td>
<td>1.1</td>
</tr>
<tr>
<td>Recordable Injury Rate</td>
<td>1.25</td>
<td>1.7</td>
</tr>
</tbody>
</table>

### Performance Indicator - CM

<table>
<thead>
<tr>
<th>Indicator</th>
<th>Oct</th>
<th>YTD</th>
<th>Goal</th>
<th>YTD as % of Goal</th>
</tr>
</thead>
<tbody>
<tr>
<td>Daily Safety Walkthrough</td>
<td>210</td>
<td>2085</td>
<td>1920</td>
<td>109%</td>
</tr>
<tr>
<td>JHAT Audit</td>
<td>9</td>
<td>108</td>
<td>120</td>
<td>90%</td>
</tr>
<tr>
<td>Quarterly Safety Audit</td>
<td>0</td>
<td>15</td>
<td>20</td>
<td>75%</td>
</tr>
<tr>
<td>Bi Annual ACE Evaluation</td>
<td>0</td>
<td>12</td>
<td>10</td>
<td>120%</td>
</tr>
<tr>
<td>Safety Monthly Meeting</td>
<td>7</td>
<td>71</td>
<td>12</td>
<td>592%</td>
</tr>
</tbody>
</table>

### Leading Indicators - Contractor

<table>
<thead>
<tr>
<th>Indicator</th>
<th>Oct</th>
<th>YTD</th>
<th>Goal</th>
<th>YTD as % of Goal</th>
</tr>
</thead>
<tbody>
<tr>
<td>Training</td>
<td>44</td>
<td>345</td>
<td>160</td>
<td>216%</td>
</tr>
<tr>
<td>Toolbox Talks</td>
<td>41</td>
<td>683</td>
<td>500</td>
<td>137%</td>
</tr>
<tr>
<td>Site Inspections</td>
<td>120</td>
<td>1811</td>
<td>2940</td>
<td>62%</td>
</tr>
<tr>
<td>SWP Review/Audit</td>
<td>17</td>
<td>287</td>
<td>425</td>
<td>68%</td>
</tr>
<tr>
<td>New Employee Orientation</td>
<td>17</td>
<td>810</td>
<td>1500</td>
<td>54%</td>
</tr>
<tr>
<td>Emergency Preparedness</td>
<td>5</td>
<td>51</td>
<td>20</td>
<td>255%</td>
</tr>
</tbody>
</table>

## For Cortlandt - October 2018

### Performance

<table>
<thead>
<tr>
<th>Injury Rate</th>
<th>2017</th>
<th>2018 YTD</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lost Time Injury Rate per 200,000 worker hours</td>
<td>0.0</td>
<td>0.9</td>
</tr>
<tr>
<td>Recordable Injury Rate</td>
<td>0.0</td>
<td>7.9</td>
</tr>
</tbody>
</table>

### Performance Indicator - CM

<table>
<thead>
<tr>
<th>Indicator</th>
<th>Oct</th>
<th>YTD</th>
<th>Goal</th>
<th>YTD as % of Goal</th>
</tr>
</thead>
<tbody>
<tr>
<td>Daily Safety Walkthrough</td>
<td>47</td>
<td>491</td>
<td>480</td>
<td>102%</td>
</tr>
<tr>
<td>JHAT Audit</td>
<td>2</td>
<td>20</td>
<td>24</td>
<td>83%</td>
</tr>
<tr>
<td>Quarterly Safety Audit</td>
<td>0</td>
<td>3</td>
<td>4</td>
<td>75%</td>
</tr>
<tr>
<td>Bi Annual ACE Evaluation</td>
<td>0</td>
<td>1</td>
<td>2</td>
<td>50%</td>
</tr>
<tr>
<td>Safety Monthly Meeting</td>
<td>11</td>
<td>169</td>
<td>180</td>
<td>94%</td>
</tr>
</tbody>
</table>

### Leading Indicators - Contractor

<table>
<thead>
<tr>
<th>Indicator</th>
<th>Oct</th>
<th>YTD</th>
<th>Goal</th>
<th>YTD as % of Goal</th>
</tr>
</thead>
<tbody>
<tr>
<td>Training</td>
<td>4</td>
<td>45</td>
<td>64</td>
<td>70%</td>
</tr>
<tr>
<td>Toolbox Talks</td>
<td>2</td>
<td>53</td>
<td>50</td>
<td>106%</td>
</tr>
<tr>
<td>Site Inspections</td>
<td>50</td>
<td>541</td>
<td>720</td>
<td>75%</td>
</tr>
<tr>
<td>SWP Review/Audit</td>
<td>2</td>
<td>32</td>
<td>45</td>
<td>71%</td>
</tr>
<tr>
<td>New Employee Orientation</td>
<td>2</td>
<td>85</td>
<td>100</td>
<td>85%</td>
</tr>
<tr>
<td>Emergency Preparedness</td>
<td>0</td>
<td>1</td>
<td>2</td>
<td>50%</td>
</tr>
</tbody>
</table>
## Performance

<table>
<thead>
<tr>
<th>Performance Indicator</th>
<th>2015 - 2016</th>
<th>2016 - 2017</th>
<th>2017 - 2018</th>
</tr>
</thead>
<tbody>
<tr>
<td>FRA Reportable Customer Accident Rate per Million Customers</td>
<td>1.25</td>
<td>0.86</td>
<td>0.78</td>
</tr>
<tr>
<td>FRA Reportable Employee Lost Time Injury Rate per 200,000 worker hours</td>
<td>2.92</td>
<td>2.93</td>
<td>2.48</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th></th>
<th>October</th>
<th>Year to Date</th>
<th>October</th>
<th>Year to Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>Grade Crossing Incidents</td>
<td>0</td>
<td>1</td>
<td>0</td>
<td>1</td>
</tr>
<tr>
<td>Mainline FRA Reportable Train Derailments</td>
<td>0</td>
<td>2</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Mainline FRA Reportable Train Collisions</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
</tbody>
</table>

1 Per FRA - Any impact between railroad on-track equipment and a highway user at a highway-rail grade crossing. The term "highway user" includes automobiles, buses, trucks, motorcycles, bicycles, farm vehicles, pedestrians, and all other modes of surface transportation motorized and un-motorized.

## Leading Indicators

### Safety Training

<table>
<thead>
<tr>
<th></th>
<th>2017</th>
<th>2018</th>
</tr>
</thead>
<tbody>
<tr>
<td>First Responders Trained</td>
<td>240</td>
<td>219</td>
</tr>
<tr>
<td>Employee Safety Training Courses</td>
<td>133</td>
<td>141</td>
</tr>
<tr>
<td>Employees Trained</td>
<td>1,540</td>
<td>2,049</td>
</tr>
<tr>
<td>Employee Safety Training Hours</td>
<td>24,645</td>
<td>23,960</td>
</tr>
</tbody>
</table>

### Customer and Community: Focus on Grade Crossings

<table>
<thead>
<tr>
<th></th>
<th>2017</th>
<th>2018</th>
</tr>
</thead>
<tbody>
<tr>
<td>Broken Gates</td>
<td>1</td>
<td>3</td>
</tr>
<tr>
<td>MTA Police Details</td>
<td>111</td>
<td>74</td>
</tr>
<tr>
<td>Summons</td>
<td>32</td>
<td>58</td>
</tr>
<tr>
<td>Warnings</td>
<td>11</td>
<td>5</td>
</tr>
<tr>
<td>Community Education and Outreach</td>
<td>11,276</td>
<td>4,345</td>
</tr>
<tr>
<td></td>
<td>66,993</td>
<td>96,010</td>
</tr>
</tbody>
</table>

### Cars Equipped with Cameras

<table>
<thead>
<tr>
<th></th>
<th>Fleet Size</th>
<th>Total Cars Equipped</th>
<th>% Complete</th>
</tr>
</thead>
<tbody>
<tr>
<td>Inward / Outward Facing Cab Cameras</td>
<td>956</td>
<td>825</td>
<td>86.30%</td>
</tr>
<tr>
<td>Passenger Compartment Cameras</td>
<td>1,085</td>
<td>796</td>
<td>73.36%</td>
</tr>
</tbody>
</table>

**Definitions:**

- **First Responders Trained** - The number of first responders trained by MNR's Emergency Management to assist in crisis events, such as train evacuation.

- **Employee Safety Training Courses** - The number of distinct safety-related courses offered, including technical courses that have a safety element. Repeats are excluded so that each course is counted only once.

- **Employees Trained** - The number of unique employees that attended one or more of these safety-related courses.

- **Employee Safety Training Hours** - The total hours of training completed by employees in all safety-related courses attended.

- **Broken Gates** - The number of events at grade crossing locations where a vehicle struck a crossing gate.

- **MTA Police Detail** - The number of details specifically for the purpose of monitoring behavior at Grade Crossings.

- **Summons** - The number of violations issued to a motorist for going around a crossing gate or due to behavior that put the motorist at risk (i.e. cell phone use, etc.).

- **Warnings** - The number of warnings issued to motorists due to behavior that put the motorist at risk (i.e. cell phone use, etc.).

- **Community Education and Outreach** - The number of individuals reached at a TRACKS event.

- **Cars Equipped with Cameras** - Number of complete inward/outward and passenger compartment camera installations on rolling stock.
October 2018
Safety Report

Statistical results for the 12-Month period are shown below.

### Performance

<table>
<thead>
<tr>
<th>Performance Indicator</th>
<th>12-Month Average</th>
<th>November 2015 - October 2016</th>
<th>November 2016 - October 2017</th>
<th>November 2017 - October 2018</th>
</tr>
</thead>
<tbody>
<tr>
<td>FRA Reportable Customer Accident Rate per Million Customers</td>
<td></td>
<td>4.01</td>
<td>4.20</td>
<td>2.06</td>
</tr>
<tr>
<td>FRA Reportable Employee Lost Time Injury Rate per 200,000 worker hours</td>
<td></td>
<td>2.98</td>
<td>3.73</td>
<td>2.94</td>
</tr>
</tbody>
</table>

**2017**  **2018**

<table>
<thead>
<tr>
<th></th>
<th>October</th>
<th>Year to Date</th>
<th>October</th>
<th>Year to Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>Grade Crossing Incidents ¹</td>
<td>0</td>
<td>11</td>
<td>0</td>
<td>7</td>
</tr>
<tr>
<td>Mainline FRA Reportable Train Derailments</td>
<td>0</td>
<td>1</td>
<td>0</td>
<td>1</td>
</tr>
<tr>
<td>Mainline FRA Reportable Train Collisions</td>
<td>0</td>
<td>1</td>
<td>0</td>
<td>3</td>
</tr>
</tbody>
</table>

¹ Per FRA - Any impact between railroad on-track equipment and a highway user at a highway-rail grade crossing. The term “highway user” includes automobiles, buses, trucks, motorcycles, bicycles, farm vehicles, pedestrians, and all other modes of surface transportation motorized and un-motorized.

### Leading Indicators

#### Focus on Safety Training

<table>
<thead>
<tr>
<th></th>
<th>2017</th>
<th>2018</th>
</tr>
</thead>
<tbody>
<tr>
<td>First Responders Trained</td>
<td>130</td>
<td>1,362</td>
</tr>
<tr>
<td>Employee Safety Training Courses</td>
<td>90</td>
<td>598</td>
</tr>
<tr>
<td>Employees Trained</td>
<td>1,116</td>
<td>8,929</td>
</tr>
<tr>
<td>Employee Safety Training Hours</td>
<td>26,980</td>
<td>223,123</td>
</tr>
</tbody>
</table>

#### Customer and Community:

**Focus on Grade Crossings**

<table>
<thead>
<tr>
<th></th>
<th>October</th>
<th>Year to Date</th>
<th>October</th>
<th>Year to Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>Broken Gates</td>
<td>14</td>
<td>98</td>
<td>14</td>
<td>96</td>
</tr>
<tr>
<td>MTA Police Details</td>
<td>148</td>
<td>883</td>
<td>69</td>
<td>970</td>
</tr>
<tr>
<td>Summons</td>
<td>93</td>
<td>1,589</td>
<td>47</td>
<td>986</td>
</tr>
<tr>
<td>Warnings</td>
<td>85</td>
<td>736</td>
<td>20</td>
<td>426</td>
</tr>
<tr>
<td>Arrests</td>
<td>0</td>
<td>1</td>
<td>0</td>
<td>2</td>
</tr>
<tr>
<td>Community Education and Outreach</td>
<td>18,894</td>
<td>99,386</td>
<td>17,279</td>
<td>101,736</td>
</tr>
</tbody>
</table>

**Completed** | **Total** | % Complete
---|---|---
M7 (Cars) | 228 | 27.27 |
C3 Cab | 23 | 100.00 |
C3 Trailer | 26 | 23.42 |
DE/DM | 1 | 22.22 |

First Responders Trained - The number of first responders trained to assist in crisis events.

Employee Safety Training Courses - The number of distinct safety-related courses offered, including technical courses that have a safety element. Repeats are excluded so that each course is counted only once.

Employees Trained - The number of unique employees that attended one or more of these safety-related courses.

Employee Safety Training Hours - The total hours of training completed by employees in all safety-related courses attended.

Broken Gates - The number of events at grade crossing locations where a vehicle broke a crossing gate.

MTA Police Detail - The number of details specifically for the purpose of monitoring behavior at Grade Crossings.

Summons for Grade Crossing Violation and other Infractions - The number of violations issued to a motorist for going around a crossing gate or due to behavior that put the motorist at risk (i.e. cell phone use, etc.).

Warnings - The number of warnings issued to motorists due to behavior that put the motorist at risk (i.e. cell phone use, etc.).

Community Education and Outreach - The number of participants who attended a TRACKS, Operation LifeSaver, or Railroad Safety Awareness Event.

Cameras on Rolling Stock - Number of complete inward/outward camera installations on rolling stock.
### Safety Report

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Subways</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Subway Customer Accidents per Million Customers 1</td>
<td>2.53</td>
<td>2.80</td>
<td>2.95</td>
</tr>
<tr>
<td>Subway Collisions 2</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Subway Derailments 2</td>
<td>1</td>
<td>5</td>
<td>2</td>
</tr>
<tr>
<td>Subway Fires 2</td>
<td>925</td>
<td>936</td>
<td>937</td>
</tr>
<tr>
<td><strong>Buses</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Bus Collisions Per Million Miles Regional</td>
<td>56.15</td>
<td>55.26</td>
<td>53.28</td>
</tr>
<tr>
<td>Bus Collision Injuries Per Million Miles Regional</td>
<td>6.40</td>
<td>6.45</td>
<td>5.83</td>
</tr>
<tr>
<td>Bus Customer Accidents Per Million Customers 1 Regional</td>
<td>1.21</td>
<td>1.27</td>
<td>1.27</td>
</tr>
<tr>
<td><strong>Total NYCT and MTA Bus Lost Time Accidents per 100 Employees</strong> 1</td>
<td>4.27</td>
<td>3.59</td>
<td>3.51</td>
</tr>
</tbody>
</table>

1 12-Month Average data from October through September.

2 12-month figures shown are totals rather than averages.

### Leading Indicators

<table>
<thead>
<tr>
<th>Leading Indicators</th>
<th>October</th>
<th>YTD</th>
<th>Goal</th>
<th>YTD as % of Goal</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Subways</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Roadway Worker Protection</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Joint Track Safety Audits -- Actual Count</td>
<td>35</td>
<td>327</td>
<td>340</td>
<td>96.2%</td>
</tr>
<tr>
<td>Joint Track Safety Audits -- Compliance Rate</td>
<td>99.2%</td>
<td>98.4%</td>
<td>100.0%</td>
<td>98.4%</td>
</tr>
<tr>
<td><strong>Mainline Collision/Derailment Prevention</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Continuous Welded Rail Initiative (# of Track Feet)</td>
<td>8,848</td>
<td>83,244</td>
<td>72,000</td>
<td>115.6%</td>
</tr>
<tr>
<td>Friction Pad Installation</td>
<td>10,996</td>
<td>93,837</td>
<td>50,000</td>
<td>187.7%</td>
</tr>
<tr>
<td><strong>Buses</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Collision Prevention</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Audible Pedestrian Warning System Pilot</td>
<td>41</td>
<td>228</td>
<td>339</td>
<td>67.3%</td>
</tr>
<tr>
<td>Vision Zero Employee Training</td>
<td>580</td>
<td>5,426</td>
<td>6,100</td>
<td>89.0%</td>
</tr>
</tbody>
</table>
October 2018 Safety Report

Statistical results for the 12-Month period are shown below.

### Performance Indicator

<table>
<thead>
<tr>
<th>Performance Indicator</th>
<th>12-Month Average</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>November 2015 - October 2016</td>
</tr>
<tr>
<td>Customer Collisions Rate for Bridge Customers per Million Vehicles</td>
<td>7.28</td>
</tr>
<tr>
<td>Customer Injury Collisions Rate for Bridge Customers per Million Vehicles</td>
<td>0.92</td>
</tr>
<tr>
<td>Employee Accident Reports</td>
<td>248</td>
</tr>
<tr>
<td>Employee Lost Time Injuries Rate per 200,000 worker hours</td>
<td>6.8</td>
</tr>
<tr>
<td>Construction Injuries per 200,000 worker</td>
<td>2.04</td>
</tr>
</tbody>
</table>

### Leading Indicators

<table>
<thead>
<tr>
<th>Roadway Safety</th>
<th>2017</th>
<th>2018</th>
</tr>
</thead>
<tbody>
<tr>
<td>Workforce Development (# of Participants)</td>
<td>144</td>
<td>926</td>
</tr>
<tr>
<td>Fleet Preventative Maintenance Insp.</td>
<td>145</td>
<td>1445</td>
</tr>
<tr>
<td>Safety Taskforce Inspections</td>
<td>1</td>
<td>12</td>
</tr>
<tr>
<td>Construction Safety</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Construction Safety Inspections</td>
<td>329</td>
<td>3384</td>
</tr>
<tr>
<td>Fire Safety</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Fire Code Audits Completed</td>
<td>1</td>
<td>14</td>
</tr>
<tr>
<td>FDNY Liaison Visits</td>
<td>4</td>
<td>25</td>
</tr>
</tbody>
</table>

### Definitions:

- **Workforce Development** provides for focused safety and skills training to all operations, maintenance and staff personnel. Classes feature OSHA 10 and 30 Classes, operations mandatory safety and skills instruction and retraining and specialty training (TIMS, CDL, FDNY instruction, Wrecker Driver Instruction and Roadway Safety Rules).

- **Fleet Preventative Maintenance Inspections** are conducted at each location to improve the customer and worker safety environment. Inspections identify potential hazardous roadway or facility conditions and prescribe corrective actions to eliminate hazards.

- **Safety Taskforce Inspections** are conducted by the joint Labor and Management Committee at each facility throughout the year on a rotating basis. The inspections consist of reviewing past accident and incident experiences/reports and facility safety reports. The Taskforce meets with location management and union representatives and makes a complete tour of the facility. The Taskforce is comprised of representatives of the Safety and Operations groups and has representation from each of the represented unions.

- **Construction Safety Inspections** are conducted by an independent safety monitor to ensure that the necessary components for a safe construction are present. Inspections include review of safety organization, job hazard analysis, safe work plans for specific high risk activities, personal protective equipment, fire protection, industrial hygiene, and training.

- **Fire Code Audits** are required by the NYS Uniform Fire Prevention Code. They are conducted by the Safety and Health Department at each building and facility throughout the Agency. They feature a review of fire prevention activities and the condition of fire fighting and suppression equipment.

- **FDNY Liaison Visits** are conducted on a regular basis (typically twice a year) whereby local fire companies visit and tour the facilities to become familiar with the structures and buildings and the fire equipment provided. This facilitates the development of strategies for fighting fires and responding to emergencies. Additionally, special drills and training exercises are conducted to drill on communications and special rescue operations should they be required.